Full wwPDB X-ray Structure Validation Report (i)

Jun 18, 2025 – 05:34 am BST

PDB ID	:	8P85 / pdb_00008p85
Title	:	80S yeast ribosome in complex with Fluorolissoclimide
Authors	:	Terrosu, S.; Yusupov, M.
Deposited on	:	2023-08-31
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 (i) 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 (i)) were used in the production of this report:

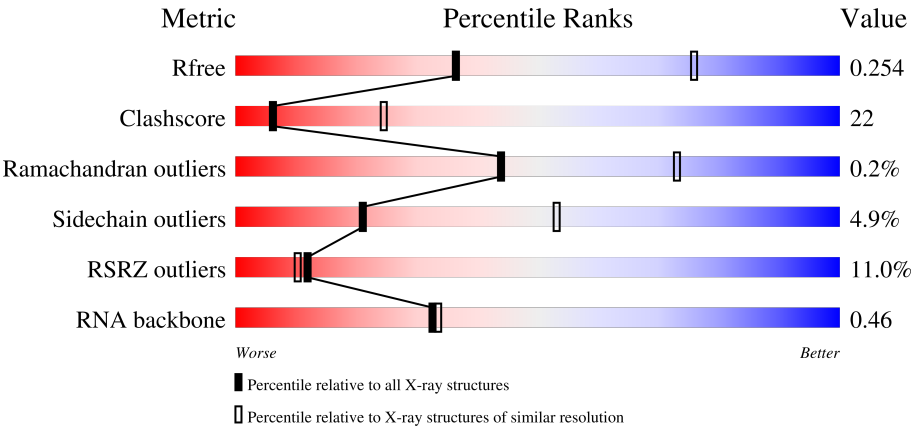
MolProbity	:	4-5-2 with Phenix2.0rc1
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	2.0rc1
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.44

1 Overall quality at a glance (i)

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}	164625	2335 (2.90-2.90)
Clashscore	180529	2564 (2.90-2.90)
Ramachandran outliers	177936	2514 (2.90-2.90)
Sidechain outliers	177891	2516 (2.90-2.90)
RSRZ outliers	164620	2337 (2.90-2.90)
RNA backbone	3690	1039 (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 <=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	A	1800	3% 30% 49% 17%
1	sR	1800	2% 33% 51% 16%
2	B	252	20% 21% 58% 18%
2	s0	252	14% 32% 45% 18%

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Mol	Chain	Length	Quality of chain
3	C	255	25% 26% 47% 9% 16%
3	s1	255	5% 39% 43% 15%
4	D	254	18% 31% 52% 15%
4	s2	254	8% 46% 38% 15%
5	E	240	28% 45% 46% 7%
5	s3	240	14% 33% 55% 7%
6	F	261	29% 44% 52%
6	s4	261	7% 51% 45%
7	G	225	13% 30% 52% 7% 11%
7	s5	225	28% 27% 59% 12%
8	H	236	25% 48% 45%
8	s6	236	12% 54% 36% 8%
9	I	190	14% 34% 57% 5%
9	s7	190	19% 38% 54% 6%
10	J	200	12% 44% 46% 6%
10	s8	200	20% 41% 49% 6%
11	K	197	26% 35% 53% 9%
11	s9	197	18% 41% 47% 6% 6%
12	L	105	29% 39% 47% 6% 9%
12	c0	105	17% 28% 47% 5% 20%
13	M	156	17% 47% 44% 8%
13	c1	156	30% 56% 35% 6%
14	O	151	16% 46% 50%
14	c3	151	11% 54% 42%
15	P	138	33% 40% 46% 7% 8%

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Mol	Chain	Length	Quality of chain
15	c4	138	16% 46% 43% 7%
16	Q	142	18% 23% 54% 6% 18%
16	c5	142	35% 33% 48% 8% 11%
17	R	143	27% 38% 53% 6%
17	c6	143	41% 36% 57% 6%
18	S	136	20% 35% 44% 6% 15%
18	c7	136	10% 40% 45% 14%
19	T	146	9% 33% 62% 5%
19	c8	146	18% 25% 70% 5%
20	U	144	16% 31% 59% 9%
20	c9	144	12% 49% 49%
21	V	121	42% 23% 55% 10% 12%
21	d0	121	31% 27% 47% 7% 17%
22	W	87	18% 33% 60% 7%
22	d1	87	11% 49% 45% 6%
23	X	130	32% 46% 51%
23	d2	130	7% 45% 54%
24	Y	145	28% 48% 48%
24	d3	145	9% 60% 37%
25	Z	135	19% 49% 47%
25	d4	135	10% 43% 52%
26	AA	136	10% 41% 55%
26	DB	136	15% 38% 57%
27	9	127	2% 61% 38%
27	DA	127	17% 56% 39%

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Mol	Chain	Length	Quality of chain
28	AB	149	13% 49% 46% 5%
28	DC	149	12% 52% 43%
29	AC	59	37% 63% 36%
29	DD	59	29% 64% 27% 7%
30	AD	105	10% 54% 36% 8%
30	DE	105	14% 58% 31% 8%
31	CD	254	14% 59% 38%
31	j	254	12% 57% 41%
32	AE	113	16% 63% 34%
32	DF	113	15% 65% 31%
33	CE	387	7% 61% 36%
33	k	387	9% 58% 38%
34	AF	130	8% 74% 24%
34	DG	130	8% 63% 32%
35	1	3396	% 37% 46% 10% 8%
35	AR	3396	% 37% 46% 10% 7%
36	3	121	% 49% 41% 10%
36	AS	121	38% 55% 7%
37	4	158	% 34% 54% 11%
37	AT	158	2% 44% 44% 11%
38	CF	362	7% 54% 43%
38	l	362	7% 57% 41%
39	CG	297	11% 60% 37%
39	m	297	9% 49% 47%
40	CH	176	5% 53% 34% 11%

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Mol	Chain	Length	Quality of chain
40	n	176	3% 61% 27% 11%
41	CI	244	4% 58% 29% 9%
41	o	244	5% 58% 31% 9%
42	CJ	256	13% 47% 39% 5% 9%
42	p	256	13% 47% 43% 9%
43	CK	191	6% 56% 40%
43	q	191	13% 50% 48%
44	CL	221	6% 50% 43% 5%
44	r	221	11% 53% 40% 5%
45	CM	174	7% 51% 44%
45	s	174	13% 38% 56%
46	CN	199	14% 54% 40%
46	t	199	9% 58% 36%
47	CO	138	12% 59% 38%
47	u	138	9% 50% 48%
48	CP	204	7% 61% 39%
48	v	204	9% 54% 45%
49	CQ	199	11% 72% 26%
49	w	199	10% 58% 39%
50	CR	184	3% 50% 34% 16%
50	x	184	5% 53% 41%
51	CS	186	14% 67% 33%
51	y	186	8% 60% 38%
52	CT	189	13% 46% 49%
52	z	189	8% 53% 42%

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Mol	Chain	Length	Quality of chain
53	0	172	13% 59% 40%
53	CU	172	3% 62% 37%
54	2	160	16% 54% 43%
54	CV	160	9% 66% 32%
55	5	121	5% 29% 53% 17%
55	CW	121	12% 35% 45% 17%
56	6	137	15% 61% 36%
56	CX	137	7% 54% 45%
57	7	155	9% 25% 17% 57%
57	CY	155	18% 54% 19% 27%
58	8	142	13% 52% 32% 15%
58	CZ	142	23% 48% 35% 17%
59	AG	107	8% 57% 38%
59	DH	107	5% 55% 42%
60	AH	121	19% 47% 41% 7%
60	DI	121	18% 51% 34% 6% 7%
61	AI	120	6% 48% 49%
61	DJ	120	15% 61% 38%
62	AJ	100	13% 54% 44%
62	DK	100	13% 50% 46%
63	AK	88	13% 51% 45%
63	DL	88	13% 60% 38%
64	AL	78	13% 47% 46% 5%
64	DM	78	15% 46% 49%
65	AM	51	18% 53% 43%

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Mol	Chain	Length	Quality of chain
65	DN	51	25% 65% 31%
66	AN	128	5% 23% 16% 59%
66	DO	128	2% 30% 11% 59%
67	AO	25	48% 52% 48%
67	DP	25	36% 64% 28% 8%
68	AP	106	11% 42% 53%
68	DQ	106	4% 44% 55%
69	AQ	92	11% 60% 38%
69	DR	92	13% 52% 46%
70	i	273	5% 27% 18% 54%
70	sM	273	8% 12% 10% 77%
71	p0	312	12% 19% 18% 61%
72	a	108	7% 13% 47% 5% 35%
72	d5	108	17% 22% 36% 6% 36%
73	b	119	40% 33% 38% 7% 22%
73	d6	119	25% 44% 33% 5% 18%
74	c	82	12% 51% 40% 7%
74	d7	82	7% 50% 39% 10%
75	d	67	21% 42% 46% 6% 6%
75	d8	67	55% 36% 46% 9% 6%
76	d9	56	38% 48% 45% 5%
76	e	56	48% 52% 43% 5%
77	e0	63	13% 49% 41% 6%
77	f	63	21% 51% 41% 5%
78	e1	152	4% 6% 12% 7% 74%

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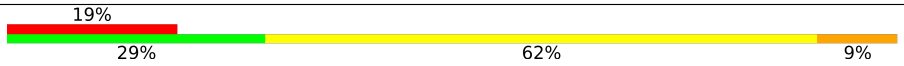
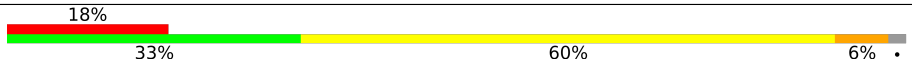
Mol	Chain	Length	Quality of chain
78	g	152	
79	Rb	319	
79	h	319	

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
80	OHX	1	3404	-	-	X	-
80	OHX	1	3477	-	-	X	-
80	OHX	1	4132	-	-	X	-
80	OHX	1	4156	-	-	X	-
80	OHX	1	4158	-	-	X	-
80	OHX	A	2134	-	-	X	-
80	OHX	AR	3401	-	-	X	-
80	OHX	AR	3408	-	-	X	-
80	OHX	AR	3504	-	-	X	-
80	OHX	AR	3652	-	-	X	-
80	OHX	k	403	-	-	X	-
80	OHX	sR	1957	-	-	X	-
80	OHX	sR	1975	-	-	X	-
81	MG	1	3742	-	-	-	X
81	MG	1	3897	-	-	-	X
81	MG	1	3900	-	-	-	X
81	MG	1	3920	-	-	-	X
81	MG	1	3944	-	-	-	X
81	MG	1	4039	-	-	-	X
81	MG	1	4056	-	-	-	X
81	MG	A	2008	-	-	-	X
81	MG	A	2077	-	-	-	X
81	MG	A	2097	-	-	-	X
81	MG	A	2105	-	-	-	X
81	MG	AR	3781	-	-	-	X
81	MG	AR	3783	-	-	-	X
81	MG	AR	3792	-	-	-	X
81	MG	AR	3843	-	-	-	X
81	MG	AR	3932	-	-	-	X
81	MG	AR	3945	-	-	-	X
81	MG	AR	3974	-	-	-	X
81	MG	AR	4003	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
81	MG	AS	223	-	-	-	X
81	MG	CS	201	-	-	-	X
81	MG	s8	301	-	-	-	X
81	MG	sR	2064	-	-	-	X
81	MG	sR	2168	-	-	-	X
82	K	A	2161	-	-	-	X

2 Entry composition

There are 87 unique types of molecules in this entry. The entry contains 404943 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 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	1735	Total	C	N	O	P	0	0	0
			36976	16530	6547	12164	1735			
1	sR	1783	Total	C	N	O	P	0	0	0
			37990	16984	6723	12500	1783			

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

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

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

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

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

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

- Molecule 5 is a protein called Small ribosomal subunit protein uS3.

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	200	Total	C	N	O	S	0	0	0
			1583	993	294	293	3			
7	s5	199	Total	C	N	O	S	0	0	0
			1576	988	293	292	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	226	Total	C	N	O	S	0	0	0
			1792	1123	346	320	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	179	Total	C	N	O	S	0	0	0
			1456	922	283	250	1			
11	s9	185	Total	C	N	O	S	0	0	0
			1494	943	289	261	1			

- Molecule 12 is a protein called Small ribosomal subunit protein eS10A,Small ribosomal subunit protein eS10A,40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	96	Total	C	N	O	S	0	0	0
			772	499	126	145	2			
12	c0	84	Total	C	N	O	S	0	0	0
			702	455	113	132	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	M	143	Total	C	N	O	S	0	0	0
			1154	739	218	194	3			
13	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

- Molecule 14 is a protein called 40S ribosomal protein S13.

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

- Molecule 15 is a protein called 40S ribosomal protein S14-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	P	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	c4	128	Total 949	C 582	N 188	O 176	S 3	0	0	0

- Molecule 16 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	Q	117	Total 928	C 589	N 174	O 158	S 7	0	0	0
16	c5	127	Total 991	C 629	N 185	O 170	S 7	0	0	0

- Molecule 17 is a protein called 40S ribosomal protein S16-A.

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

- Molecule 18 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	S	115	Total 901	C 562	N 172	O 165	S 2	0	0	0
18	c7	117	Total 906	C 563	N 174	O 167	S 2	0	0	0

- Molecule 19 is a protein called 40S ribosomal protein S18-A.

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

- Molecule 20 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 21 is a protein called Small ribosomal subunit protein uS10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	V	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
21	d0	100	Total	C	N	O	S	0	0	0
			800	509	144	146	1			

- Molecule 22 is a protein called 40S ribosomal protein S21-A.

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

- Molecule 23 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 24 is a protein called 40S ribosomal protein S23-A.

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

- Molecule 25 is a protein called 40S ribosomal protein S24-A.

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

- Molecule 26 is a protein called 60S ribosomal protein L27-A.

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

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

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

- Molecule 28 is a protein called 60S ribosomal protein L28.

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

- Molecule 29 is a protein called 60S ribosomal protein L29.

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

- Molecule 30 is a protein called 60S ribosomal protein L30.

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

- Molecule 31 is a protein called 60S ribosomal protein L2-A.

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	j	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	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 L3.

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

- Molecule 34 is a protein called 60S ribosomal protein L32.

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

- Molecule 35 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	1	3134	Total	C	N	O	P	0	0	0
			67038	29944	12089	21871	3134			
35	AR	3147	Total	C	N	O	P	0	0	0
			67313	30067	12134	21965	3147			

- Molecule 36 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
36	AS	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 37 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
37	AT	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 38 is a protein called 60S ribosomal protein L4-A.

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

- Molecule 39 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	m	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
39	CG	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			

- Molecule 40 is a protein called 60S ribosomal protein L6-A.

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

- Molecule 41 is a protein called 60S ribosomal protein L7-A.

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

- Molecule 42 is a protein called 60S ribosomal protein L8-A.

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

- Molecule 43 is a protein called 60S ribosomal protein L9-A.

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

- Molecule 44 is a protein called 60S ribosomal protein L10.

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

- Molecule 45 is a protein called Large ribosomal subunit protein uL5B.

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

- Molecule 46 is a protein called 60S ribosomal protein L13-A.

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

- Molecule 47 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	u	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	CO	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			

- Molecule 48 is a protein called 60S ribosomal protein L15-A.

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

- Molecule 49 is a protein called 60S ribosomal protein L16-A.

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

- Molecule 50 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
50	x	176	Total	C	N	O	0	0	0
			1385	861	274	250			
50	CR	155	Total	C	N	O	0	0	0
			1227	764	238	225			

- Molecule 51 is a protein called 60S ribosomal protein L18-A.

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

- Molecule 52 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	z	183	Total	C	N	O	0	0	0
			1482	911	320	251			
52	CT	184	Total	C	N	O	0	0	0
			1490	917	321	252			

- Molecule 53 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
53	CU	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 54 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	2	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
54	CV	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 55 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	5	100	Total	C	N	O	0	0	0
			796	516	131	149			
55	CW	100	Total	C	N	O	0	0	0
			796	516	131	149			

- Molecule 56 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	6	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
56	CX	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

- Molecule 57 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	7	67	Total	C	N	O	S	0	0	0
			543	349	106	87	1			
57	CY	113	Total	C	N	O	S	0	0	0
			781	492	155	133	1			

- Molecule 58 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	8	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			
58	CZ	118	Total	C	N	O	S	0	0	0
			946	608	166	170	2			

- Molecule 59 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	AG	105	Total	C	N	O	S	0	0	0
			839	534	161	143	1			
59	DH	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	AH	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			
60	DI	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

- Molecule 61 is a protein called 60S ribosomal protein L35-A.

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

- Molecule 62 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	AJ	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
62	DK	97	Total	C	N	O	S	0	0	0
			750	469	149	130	2			

- Molecule 63 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	AK	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	DL	86	Total	C	N	O	S	0	0	0
			676	411	147	113	5			

- Molecule 64 is a protein called 60S ribosomal protein L38.

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

- Molecule 65 is a protein called 60S ribosomal protein L39.

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

- Molecule 66 is a protein called Ubiquitin-60S ribosomal protein L40.

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

- Molecule 67 is a protein called Large ribosomal subunit protein eL41B.

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

- Molecule 68 is a protein called 60S ribosomal protein L42-A.

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

- Molecule 69 is a protein called 60S ribosomal protein L43-A.

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

- Molecule 70 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
70	i	126	Total	C	N	O	0	0	0
			939	553	188	198			
70	sM	63	Total	C	N	O	0	0	0
			475	280	99	96			

- Molecule 71 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	p0	123	Total	C	N	O	S	0	0	0
			977	627	172	175	3			

- Molecule 72 is a protein called 40S ribosomal protein S25-A.

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

- Molecule 73 is a protein called Small ribosomal subunit protein eS26B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	b	93	Total	C	N	O	S	0	0	0
			745	461	156	123	5			
73	d6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

- Molecule 74 is a protein called 40S ribosomal protein S27-A.

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

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

- Molecule 75 is a protein called 40S ribosomal protein S28-A.

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

- Molecule 76 is a protein called Small ribosomal subunit protein uS14A.

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

- Molecule 77 is a protein called 40S ribosomal protein S30-A.

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

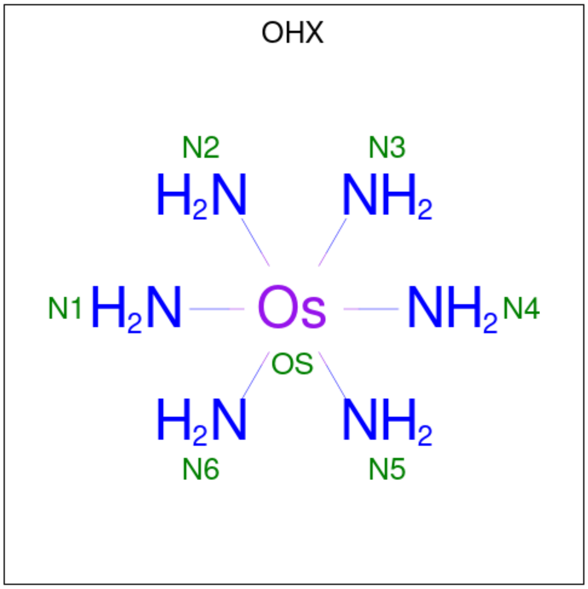
- Molecule 78 is a protein called Ubiquitin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	g	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
78	e1	39	Total	C	N	O	S	0	0	0
			317	204	57	54	2			

- Molecule 79 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	h	312	Total	C	N	O	S	0	0	0
			2394	1515	411	460	8			
79	Rb	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 80 is osmium (III) hexammine (CCD ID: OHX) (formula: $H_{12}N_6Os$).



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

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

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

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 7 6 1	0	0
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80	A	1	Total N Os 7 6 1	0	0
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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80	A	1	Total N Os 7 6 1	0	0
80	A	1	Total N Os 14 12 2	0	1
80	J	1	Total N Os 7 6 1	0	0
80	O	1	Total N Os 7 6 1	0	0
80	Q	1	Total N Os 7 6 1	0	0
80	S	1	Total N Os 7 6 1	0	0
80	T	1	Total N Os 7 6 1	0	0
80	AC	1	Total N Os 7 6 1	0	0
80	DD	1	Total N Os 7 6 1	0	0
80	AE	1	Total N Os 7 6 1	0	0
80	CE	1	Total N Os 7 6 1	0	0
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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80	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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80	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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80	1	1	Total N Os 7 6 1	0	0
80	1	1	Total N Os 5 4 1	0	0
80	1	1	Total N Os 7 6 1	0	0
80	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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80	3	1	Total N Os 7 6 1	0	0
80	3	1	Total N Os 7 6 1	0	0
80	4	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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80	k	1	Total N Os 7 6 1	0	0
80	k	1	Total N Os 7 6 1	0	0
80	k	1	Total N Os 7 6 1	0	0
80	l	1	Total N Os 7 6 1	0	0
80	n	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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80	v	1	Total N Os 7 6 1	0	0
80	x	1	Total N Os 7 6 1	0	0
80	y	1	Total N Os 7 6 1	0	0
80	z	1	Total N Os 7 6 1	0	0
80	z	1	Total N Os 7 6 1	0	0
80	2	1	Total N Os 7 6 1	0	0
80	AG	1	Total N Os 7 6 1	0	0
80	AK	1	Total N Os 7 6 1	0	0
80	AP	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
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80	AR	1	Total N Os 7 6 1	0	0
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80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
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80	AR	1	Total N Os 7 6 1	0	0
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80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
80	AR	1	Total N Os 6 5 1	0	0
80	AR	1	Total N Os 7 6 1	0	0
80	AS	1	Total N Os 7 6 1	0	0
80	AS	1	Total N Os 7 6 1	0	0
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80	AS	1	Total N Os 7 6 1	0	0
80	AS	1	Total N Os 7 6 1	0	0
80	AS	1	Total N Os 7 6 1	0	0
80	AS	1	Total N Os 7 6 1	0	0
80	AS	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
80	AS	1	Total N Os 7 6 1	0	0
80	AS	1	Total N Os 7 6 1	0	0
80	AT	1	Total N Os 7 6 1	0	0
80	AT	1	Total N Os 7 6 1	0	0
80	AT	1	Total N Os 7 6 1	0	0
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80	AT	1	Total N Os 7 6 1	0	0
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80	AT	1	Total N Os 7 6 1	0	0
80	AT	1	Total N Os 7 6 1	0	0
80	AT	1	Total N Os 7 6 1	0	0
80	CG	1	Total N Os 7 6 1	0	0
80	CG	1	Total N Os 7 6 1	0	0
80	CG	1	Total N Os 7 6 1	0	0
80	CK	1	Total N Os 7 6 1	0	0
80	CL	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
80	CL	1	Total N Os 7 6 1	0	0
80	CL	1	Total N Os 6 5 1	0	0
80	CP	1	Total N Os 7 6 1	0	0
80	CS	1	Total N Os 7 6 1	0	0
80	CX	1	Total N Os 7 6 1	0	0
80	DH	1	Total N Os 7 6 1	0	0
80	DK	1	Total N Os 7 6 1	0	0
80	DL	1	Total N Os 7 6 1	0	0
80	DQ	1	Total N Os 7 6 1	0	0
80	e	1	Total N Os 7 6 1	0	0
80	h	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0

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

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

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

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

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 6 5 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	sR	1	Total N Os 7 6 1	0	0
80	Rb	1	Total N Os 7 6 1	0	0
80	s1	1	Total N Os 7 6 1	0	0
80	s4	1	Total N Os 7 6 1	0	0
80	s8	1	Total N Os 7 6 1	0	0
80	c3	1	Total N Os 7 6 1	0	0
80	c5	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
80	c8	1	Total N Os 7 6 1	0	0
80	d4	1	Total N Os 7 6 1	0	0
80	d6	1	Total N Os 7 6 1	0	0

- Molecule 81 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	A	139	Total Mg 139 139	0	0
81	D	1	Total Mg 1 1	0	0
81	F	1	Total Mg 1 1	0	0
81	O	1	Total Mg 1 1	0	0
81	P	1	Total Mg 1 1	0	0
81	DA	2	Total Mg 2 2	0	0
81	AB	3	Total Mg 3 3	0	0
81	AC	1	Total Mg 1 1	0	0
81	DC	2	Total Mg 2 2	0	0
81	CD	2	Total Mg 2 2	0	0
81	CE	3	Total Mg 3 3	0	0
81	AF	2	Total Mg 2 2	0	0
81	1	489	Total Mg 489 489	0	0
81	3	12	Total Mg 12 12	0	0
81	4	21	Total Mg 21 21	0	0
81	j	3	Total Mg 3 3	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	k	1	Total Mg 1 1	0	0
81	l	4	Total Mg 4 4	0	0
81	m	1	Total Mg 1 1	0	0
81	o	1	Total Mg 1 1	0	0
81	r	3	Total Mg 3 3	0	0
81	s	1	Total Mg 1 1	0	0
81	t	3	Total Mg 3 3	0	0
81	v	5	Total Mg 5 5	0	0
81	w	1	Total Mg 1 1	0	0
81	x	8	Total Mg 8 8	0	0
81	z	2	Total Mg 2 2	0	0
81	6	3	Total Mg 3 3	0	0
81	8	3	Total Mg 3 3	0	0
81	9	1	Total Mg 1 1	0	0
81	AH	1	Total Mg 1 1	0	0
81	AK	3	Total Mg 3 3	0	0
81	AN	1	Total Mg 1 1	0	0
81	AR	534	Total Mg 534 534	0	0
81	AS	18	Total Mg 18 18	0	0
81	AT	15	Total Mg 15 15	0	0
81	CF	2	Total Mg 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	CG	1	Total Mg 1 1	0	0
81	CI	2	Total Mg 2 2	0	0
81	CK	2	Total Mg 2 2	0	0
81	CL	1	Total Mg 1 1	0	0
81	CM	2	Total Mg 2 2	0	0
81	CO	1	Total Mg 1 1	0	0
81	CP	3	Total Mg 3 3	0	0
81	CQ	3	Total Mg 3 3	0	0
81	CR	6	Total Mg 6 6	0	0
81	CS	1	Total Mg 1 1	0	0
81	CU	2	Total Mg 2 2	0	0
81	CX	1	Total Mg 1 1	0	0
81	CY	1	Total Mg 1 1	0	0
81	DH	2	Total Mg 2 2	0	0
81	DI	1	Total Mg 1 1	0	0
81	DL	1	Total Mg 1 1	0	0
81	DO	1	Total Mg 1 1	0	0
81	DP	1	Total Mg 1 1	0	0
81	DQ	3	Total Mg 3 3	0	0
81	DR	2	Total Mg 2 2	0	0
81	sM	2	Total Mg 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	b	1	Total Mg 1 1	0	0
81	sR	143	Total Mg 143 143	0	0
81	s1	1	Total Mg 1 1	0	0
81	s2	1	Total Mg 1 1	0	0
81	s4	2	Total Mg 2 2	0	0
81	s8	3	Total Mg 3 3	0	0
81	c1	1	Total Mg 1 1	0	0
81	c4	2	Total Mg 2 2	0	0
81	c6	2	Total Mg 2 2	0	0
81	c8	2	Total Mg 2 2	0	0
81	c9	1	Total Mg 1 1	0	0
81	d2	1	Total Mg 1 1	0	0
81	d3	3	Total Mg 3 3	0	0
81	d4	2	Total Mg 2 2	0	0
81	d5	1	Total Mg 1 1	0	0
81	d6	2	Total Mg 2 2	0	0
81	d9	1	Total Mg 1 1	0	0

- Molecule 82 is POTASSIUM ION (CCD ID: K) (formula: K).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
82	A	2	Total K 2 2	0	0
82	AR	1	Total K 1 1	0	0

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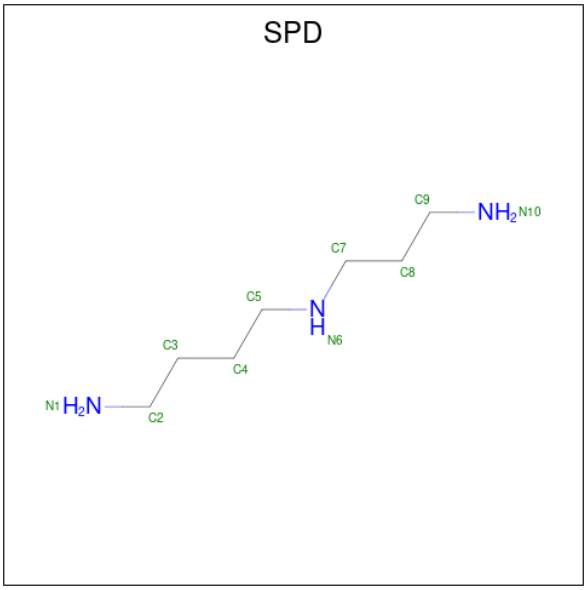
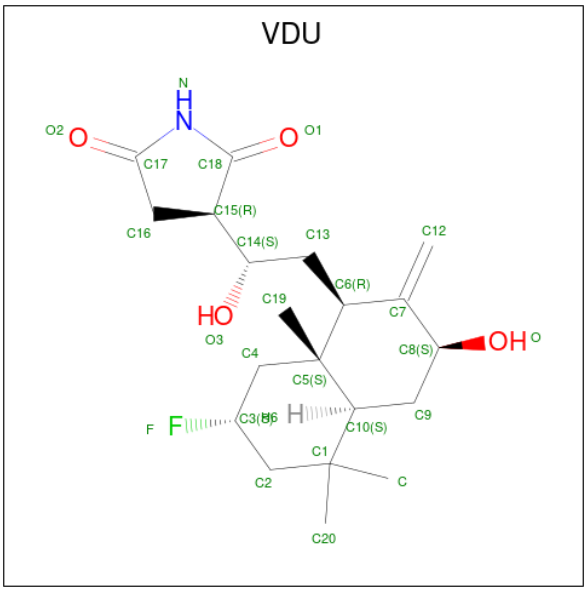
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
82	CK	1	Total K 1 1	0	0

- 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 10 7 3	0	0
83	AR	1	Total C N 10 7 3	0	0

- Molecule 84 is fluorolissoclimide (CCD ID: VDU) (formula: $C_{20}H_{30}FNO_4$) (labeled as "Ligand of Interest" by depositor).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	1	1	Total C F N O 26 20 1 1 4	0	0
84	AR	1	Total C F N O 26 20 1 1 4	0	0

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

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

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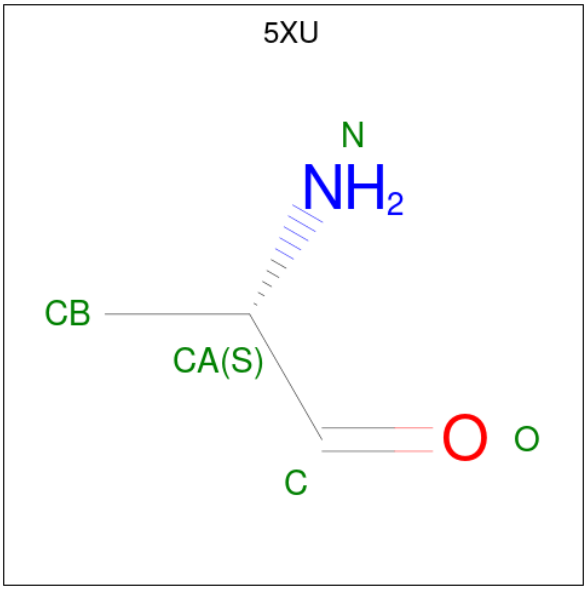
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	c	1	Total Zn 1 1	0	0
85	e	1	Total Zn 1 1	0	0
85	g	1	Total Zn 1 1	0	0
85	d6	1	Total Zn 1 1	0	0
85	d7	1	Total Zn 1 1	0	0
85	d9	1	Total Zn 1 1	0	0
85	e1	1	Total Zn 1 1	0	0

- Molecule 86 is (2 {S})-2-azanylpropanal (CCD ID: 5XU) (formula: C_3H_7NO).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	s3	1	Total C N O 5 3 1 1	0	0
86	s3	1	Total C N O 4 2 1 1	0	0
86	c0	1	Total C N O 5 3 1 1	0	0
86	c0	1	Total C N O 5 3 1 1	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
86	c0	1	Total	C	N	O	0	0
			5	3	1	1		

- Molecule 87 is water.

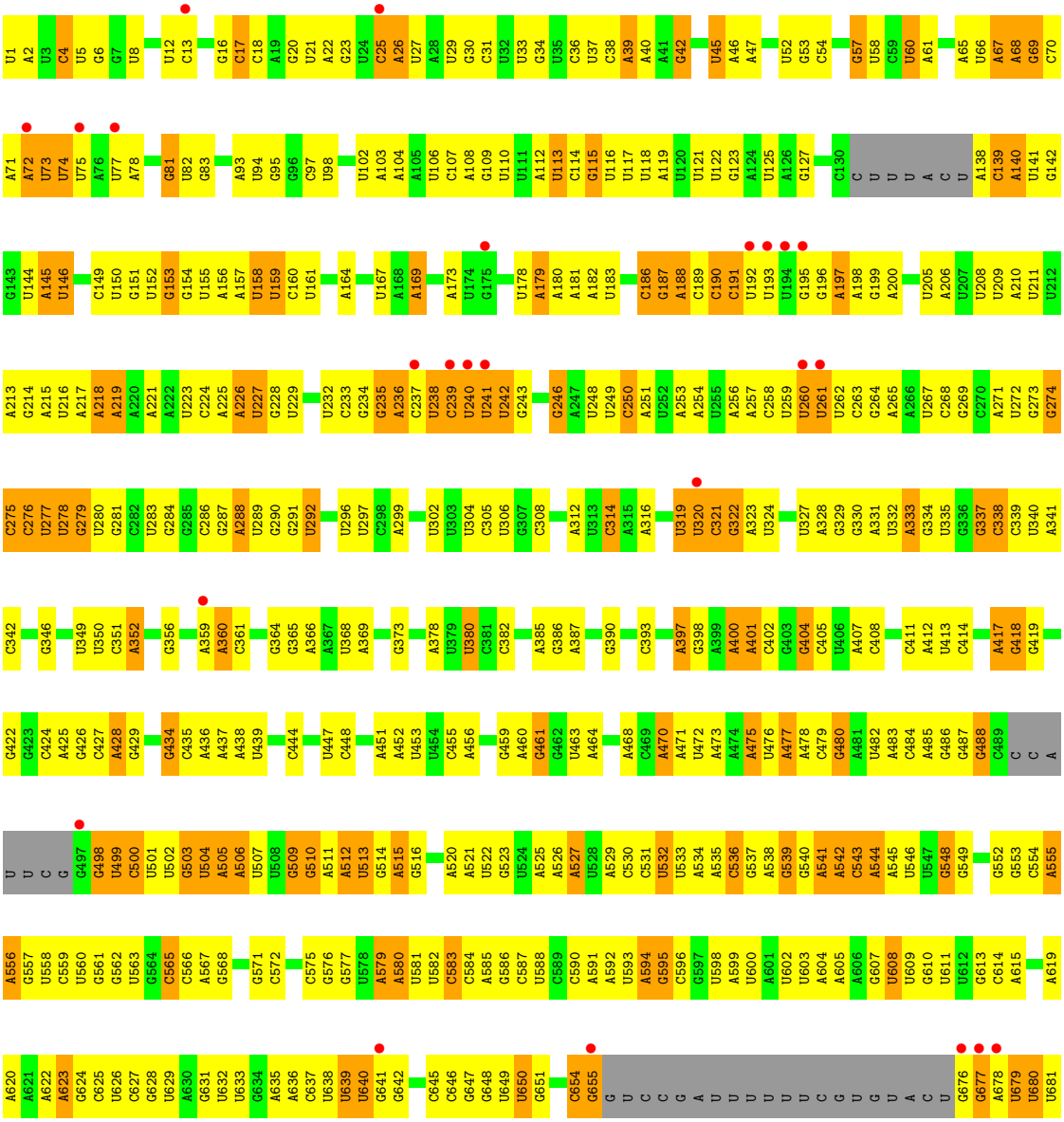
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	A	44	Total	O	0	0
			44	44		
87	F	1	Total	O	0	0
			1	1		
87	CD	1	Total	O	0	0
			1	1		
87	AF	3	Total	O	0	0
			3	3		
87	1	60	Total	O	0	0
			60	60		
87	8	6	Total	O	0	0
			6	6		
87	AO	1	Total	O	0	0
			1	1		
87	i	1	Total	O	0	0
			1	1		
87	AR	81	Total	O	0	0
			81	81		
87	AT	2	Total	O	0	0
			2	2		
87	CP	3	Total	O	0	0
			3	3		
87	CR	1	Total	O	0	0
			1	1		
87	DG	3	Total	O	0	0
			3	3		
87	sR	24	Total	O	0	0
			24	24		

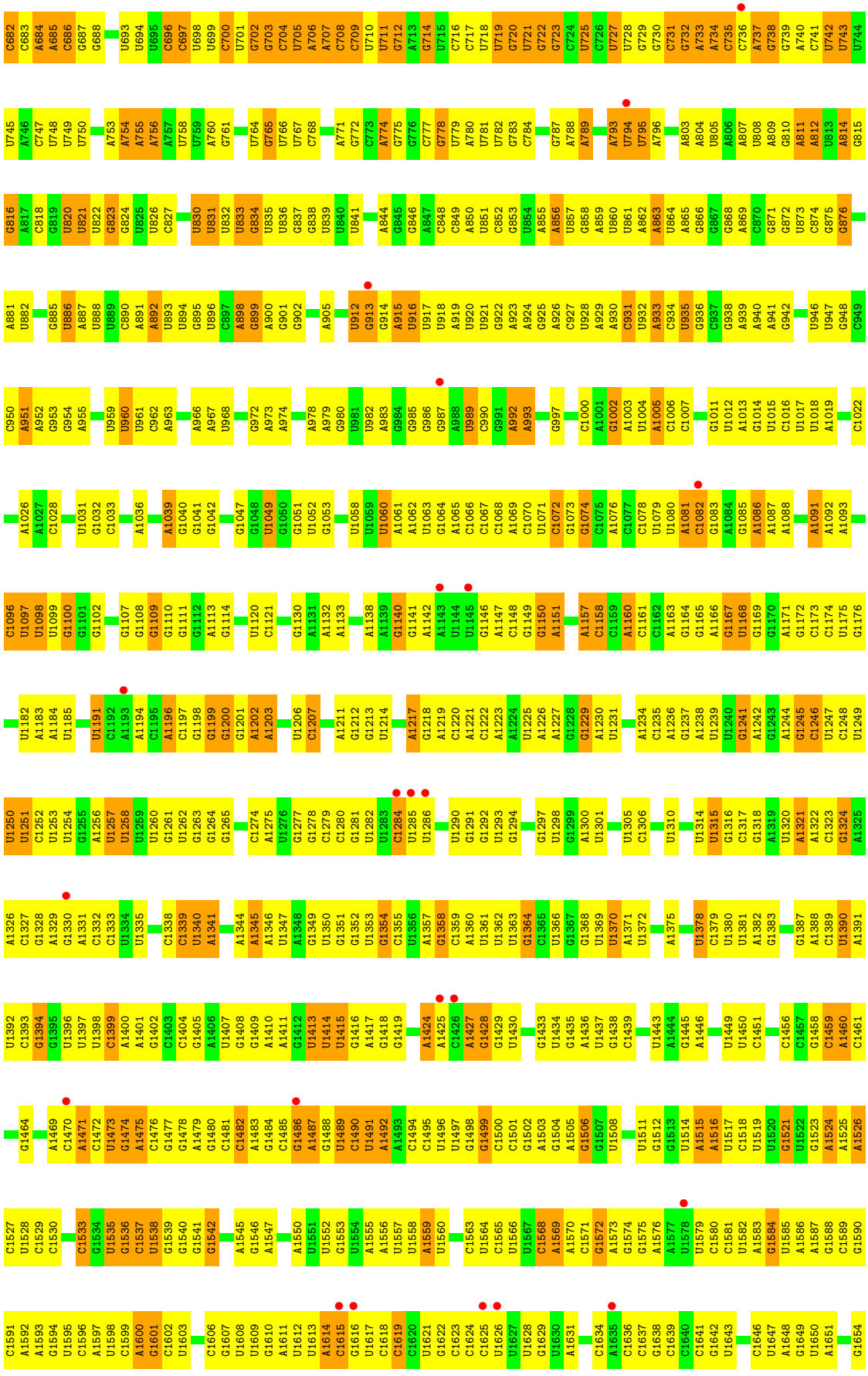
3 Residue-property plots (i)

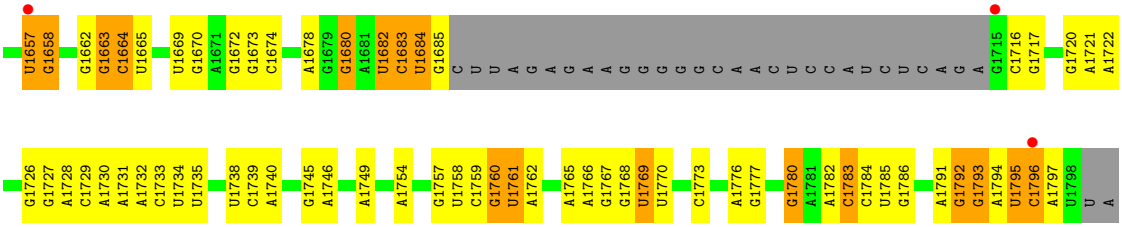
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: 16S ribosomal RNA

Chain A:

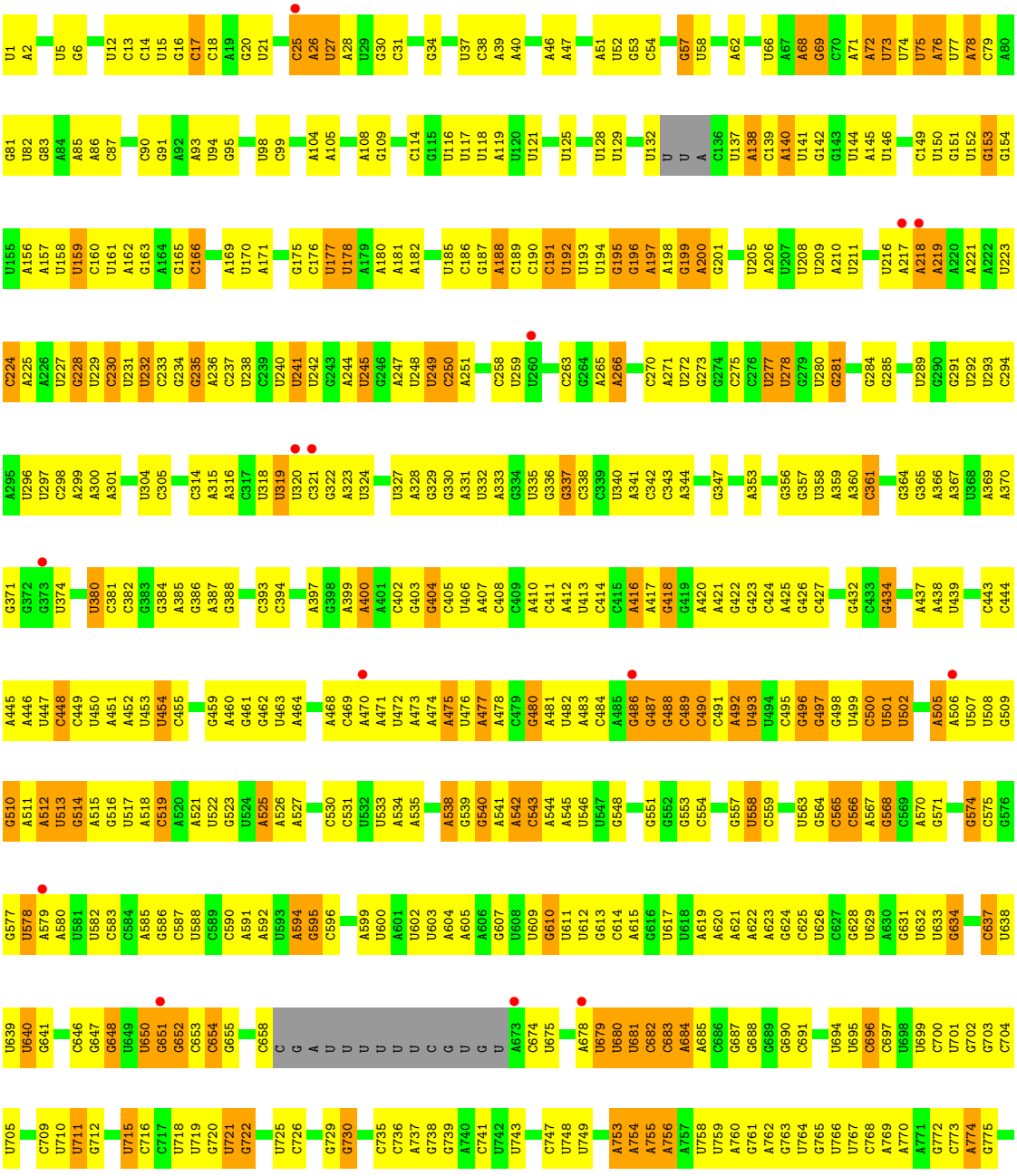


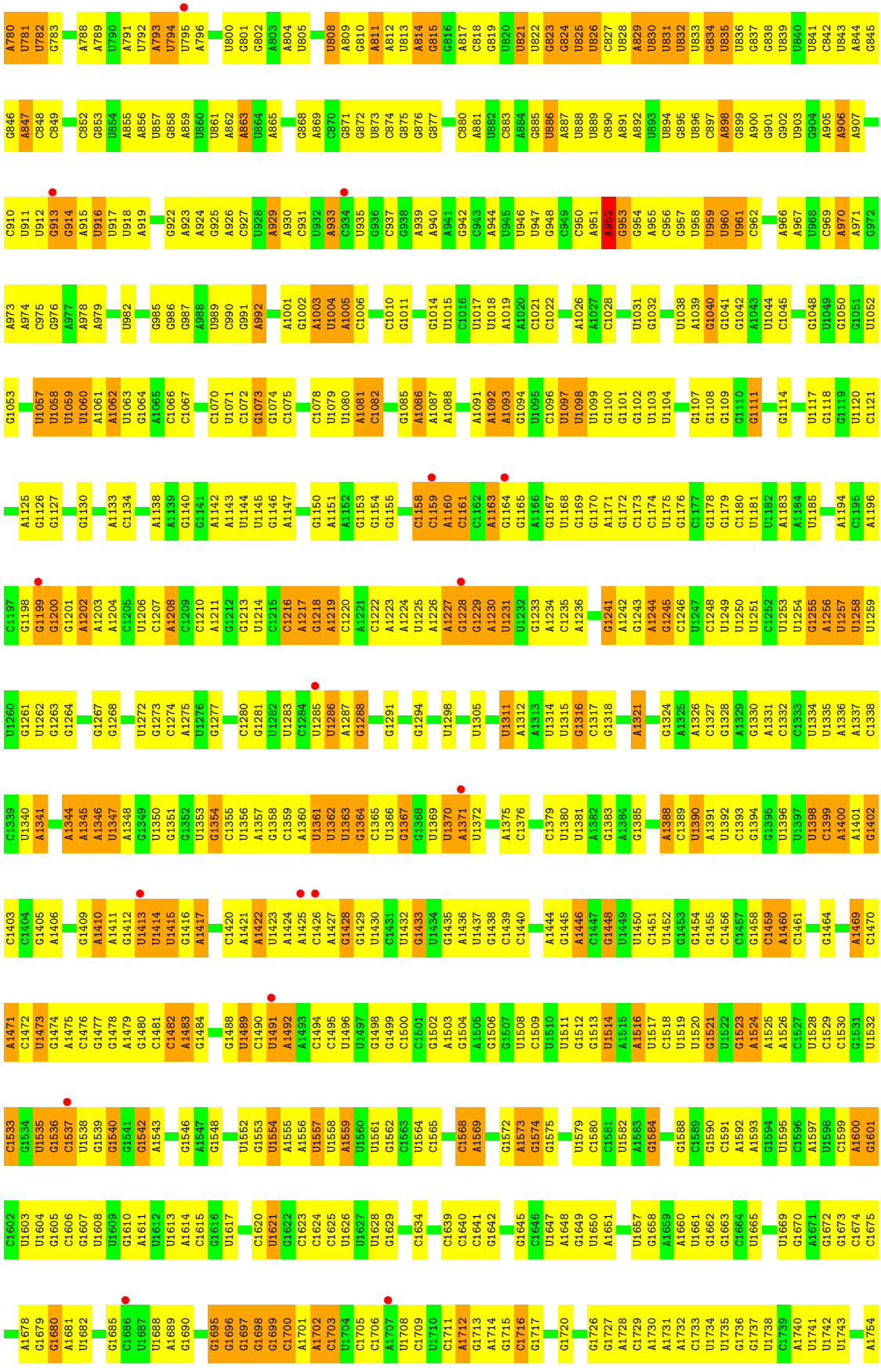




• Molecule 1: 16S ribosomal RNA

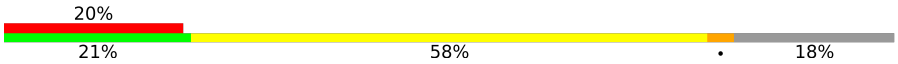
Chain sR:

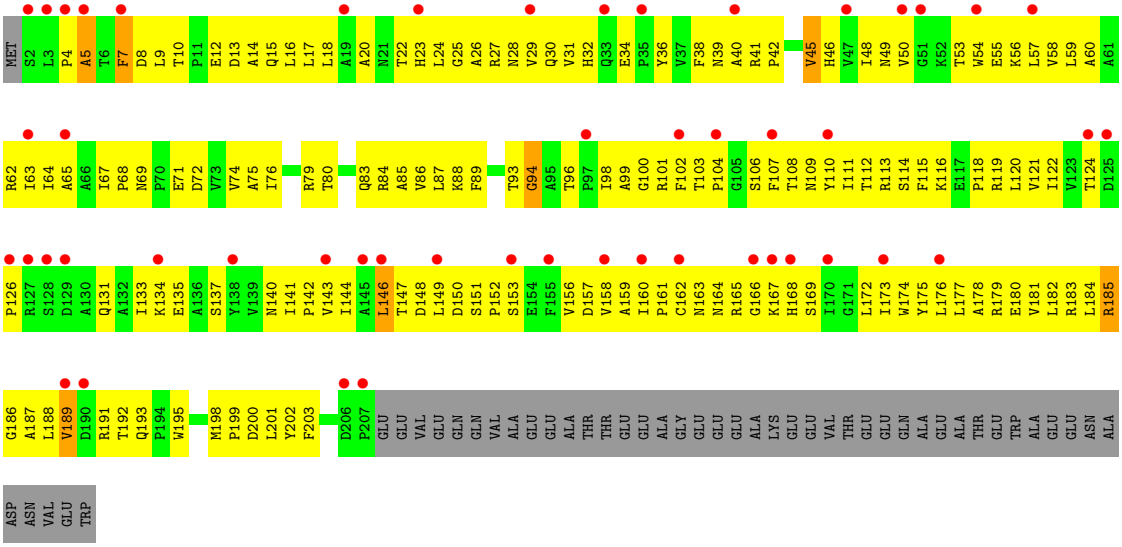




• Molecule 2: 40S ribosomal protein S0-A

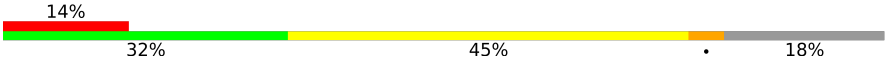
Chain B:

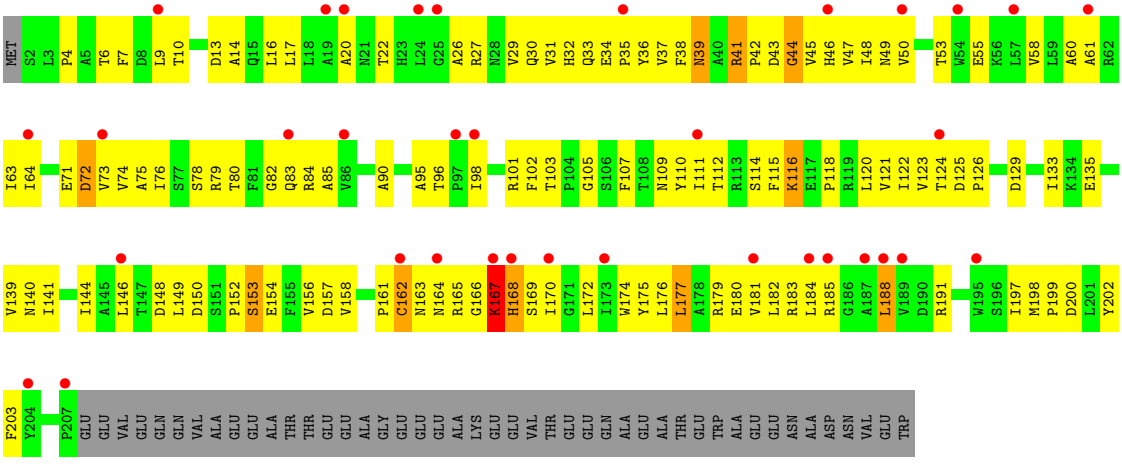




• Molecule 2: 40S ribosomal protein S0-A

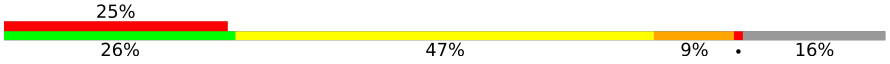
Chain s0:

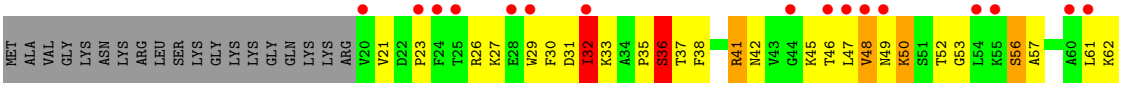


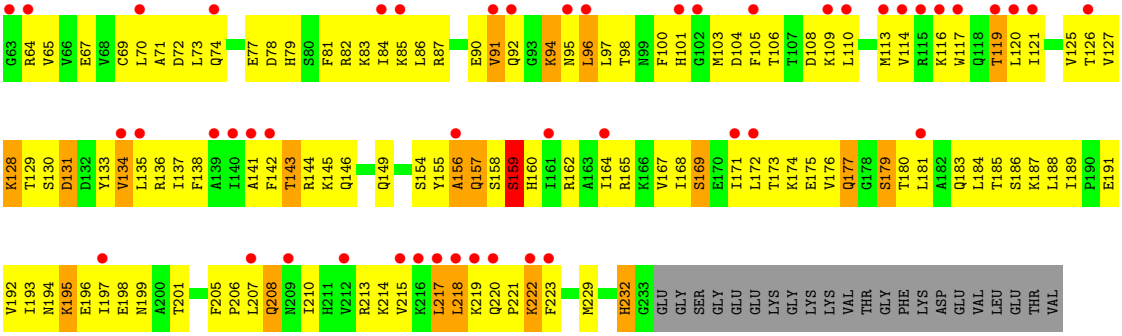


• Molecule 3: 40S ribosomal protein S1-A

Chain C:

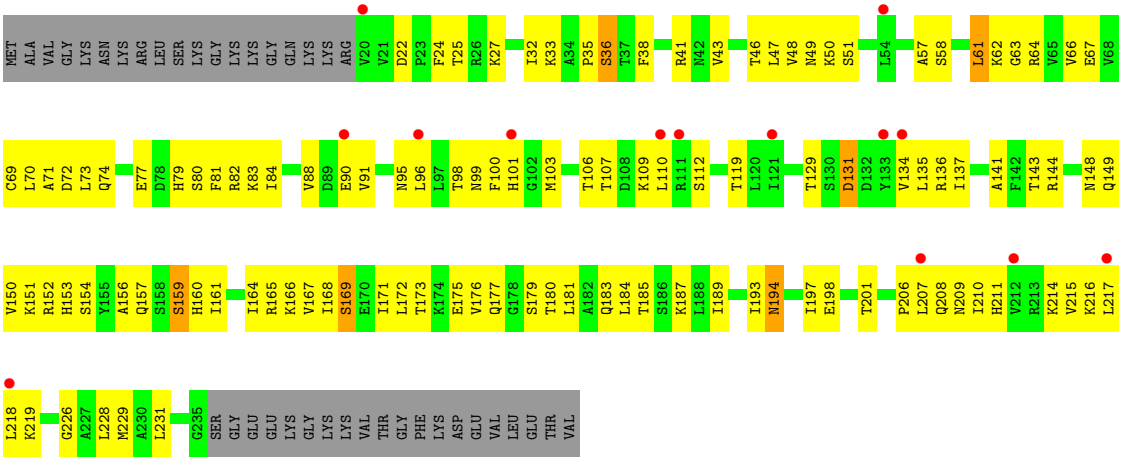






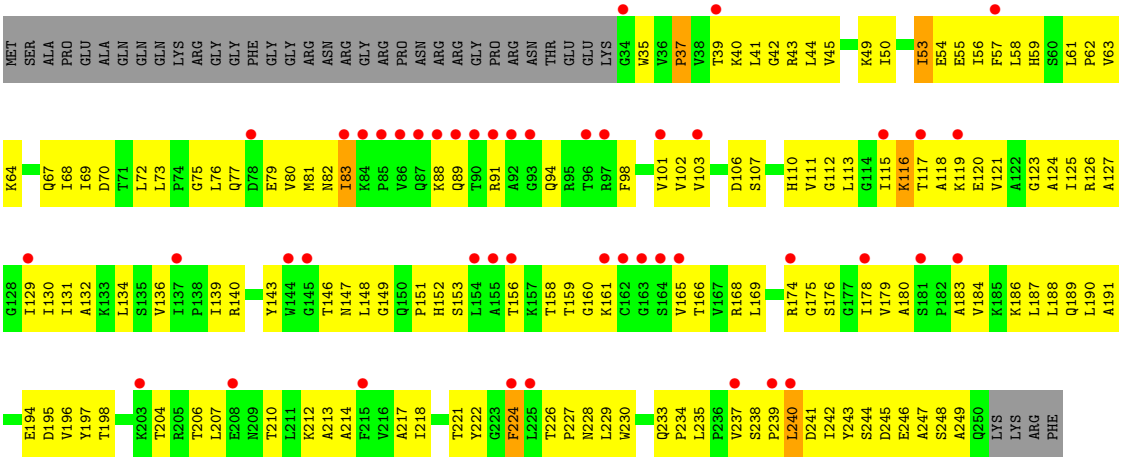
• Molecule 3: 40S ribosomal protein S1-A

Chain s1:



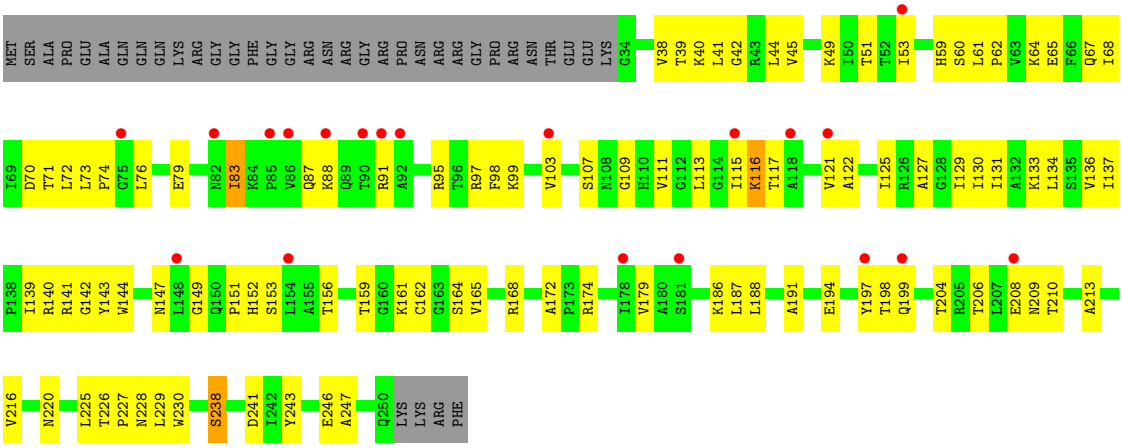
• Molecule 4: 40S ribosomal protein S2

Chain D:

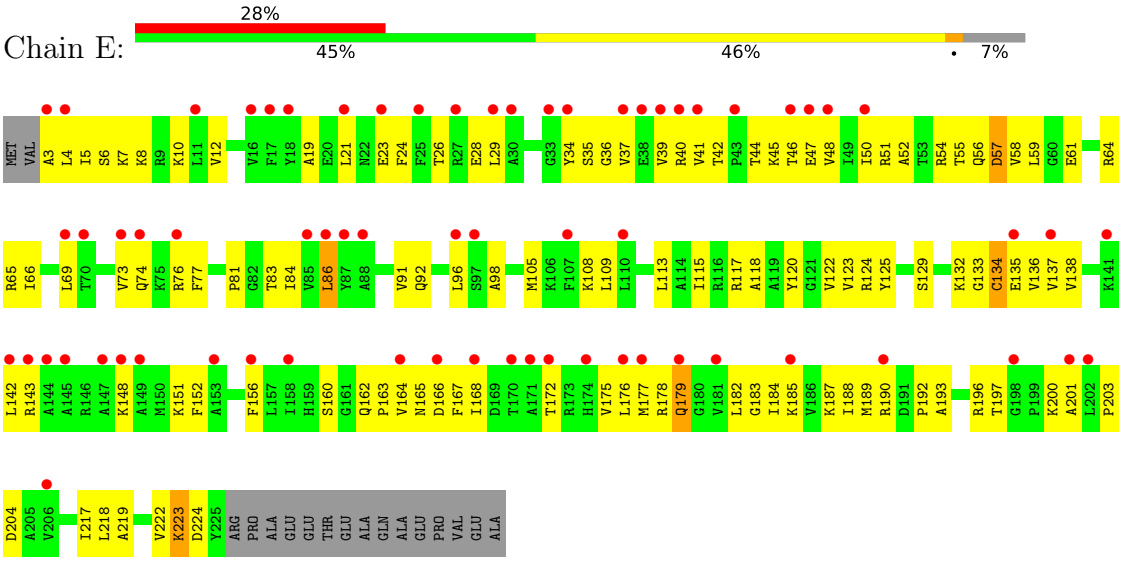


• Molecule 4: 40S ribosomal protein S2

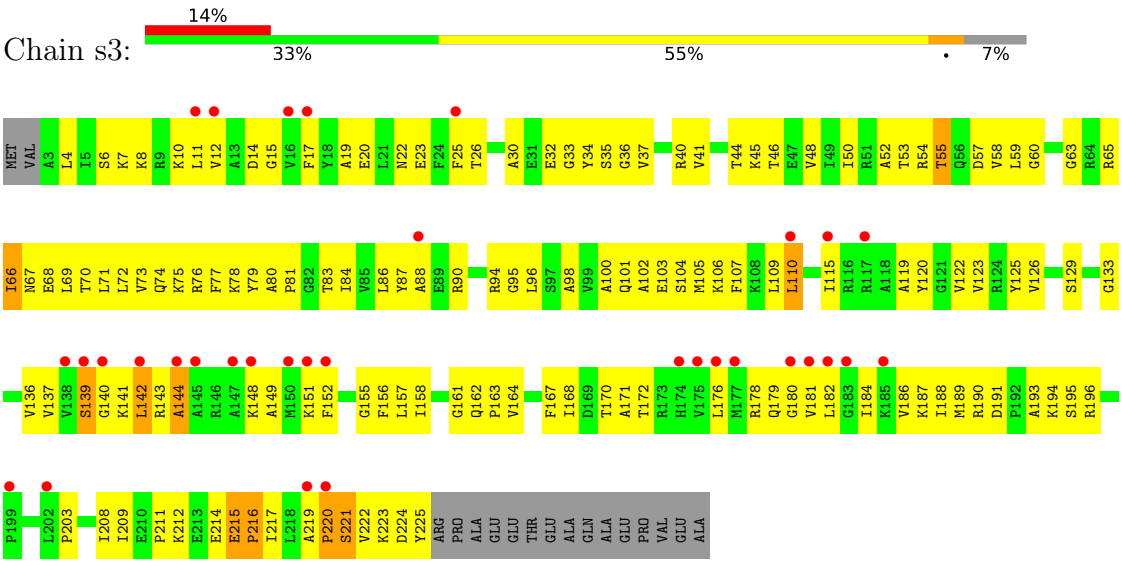
Chain s2:



• Molecule 5: Small ribosomal subunit protein uS3

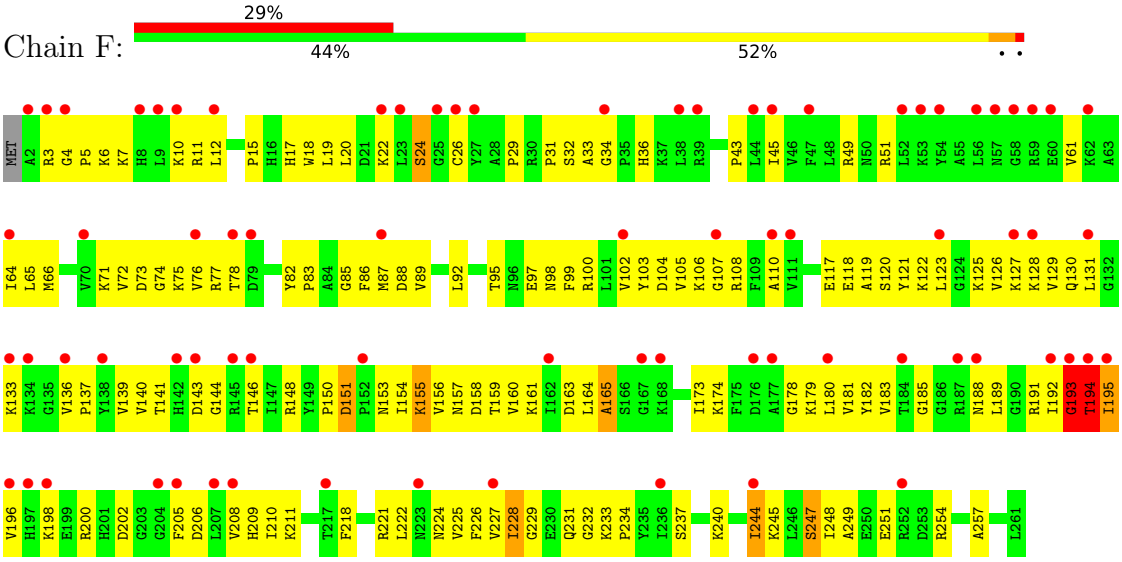


• Molecule 5: Small ribosomal subunit protein uS3



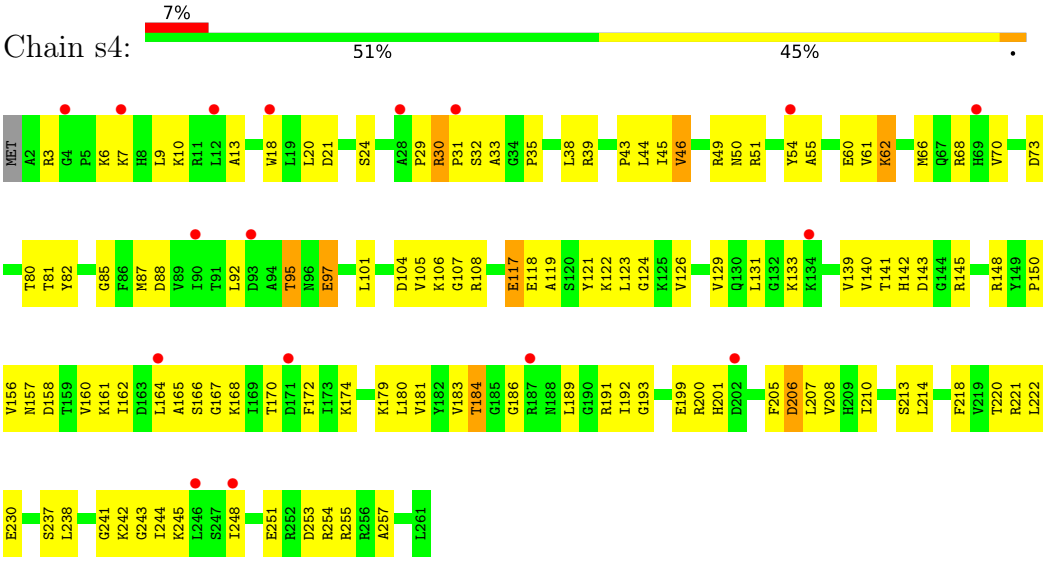
• Molecule 6: 40S ribosomal protein S4-A

Chain F:



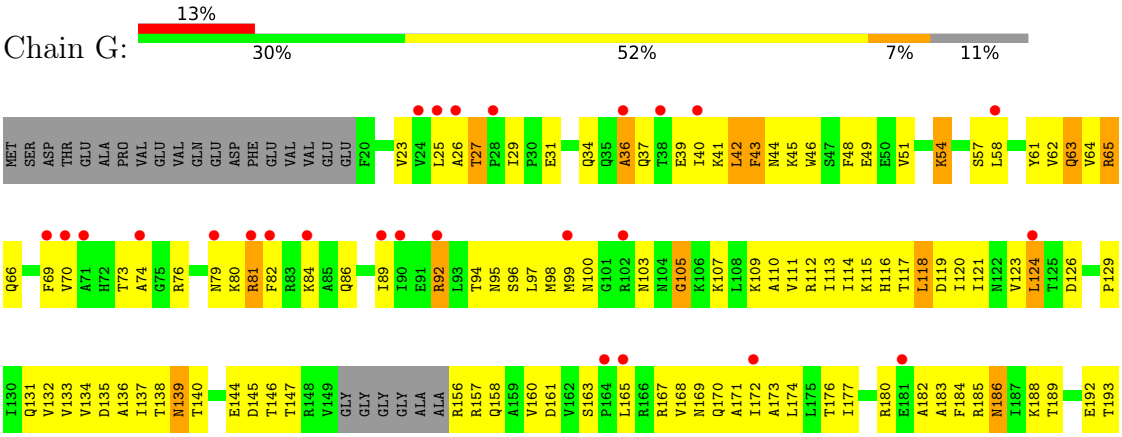
• Molecule 6: 40S ribosomal protein S4-A

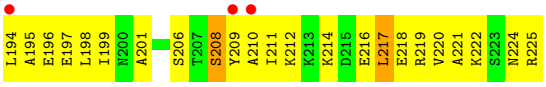
Chain s4:



• Molecule 7: 40S ribosomal protein S5

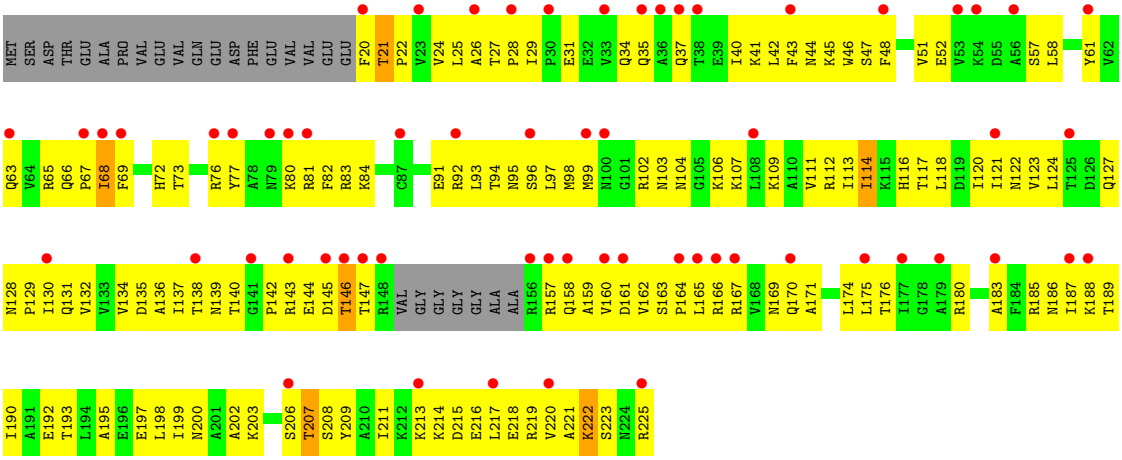
Chain G:





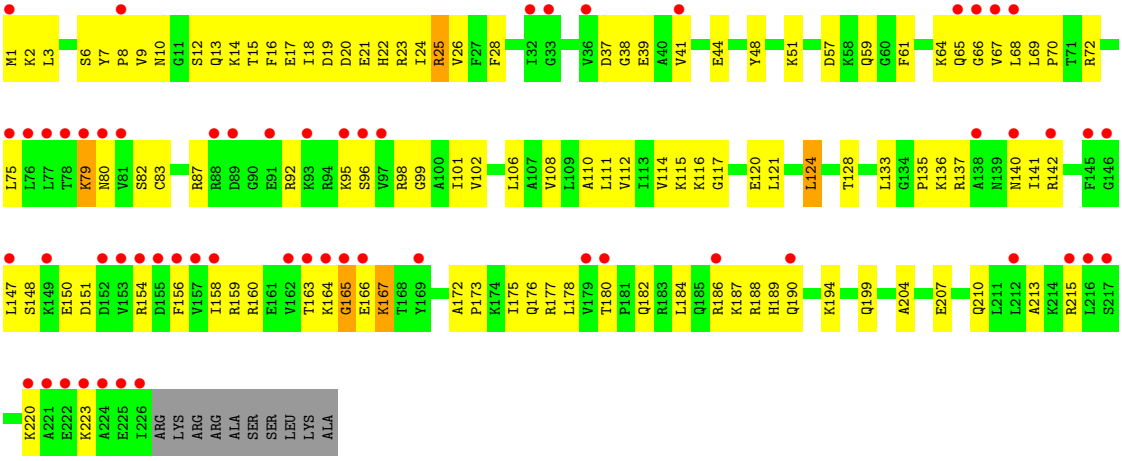
• Molecule 7: 40S ribosomal protein S5

Chain s5:



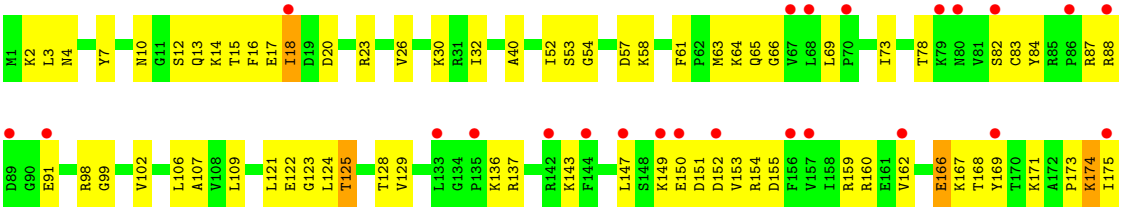
• Molecule 8: 40S ribosomal protein S6-A

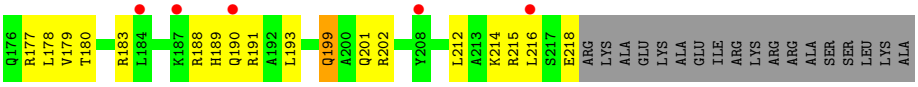
Chain H:



• Molecule 8: 40S ribosomal protein S6-A

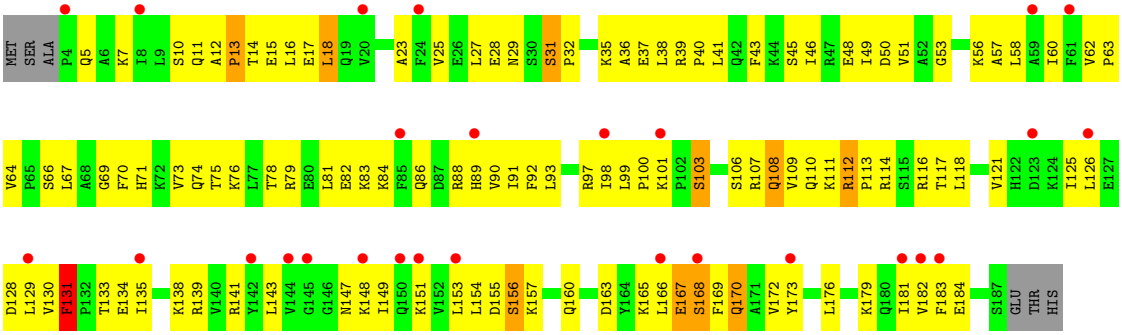
Chain s6:





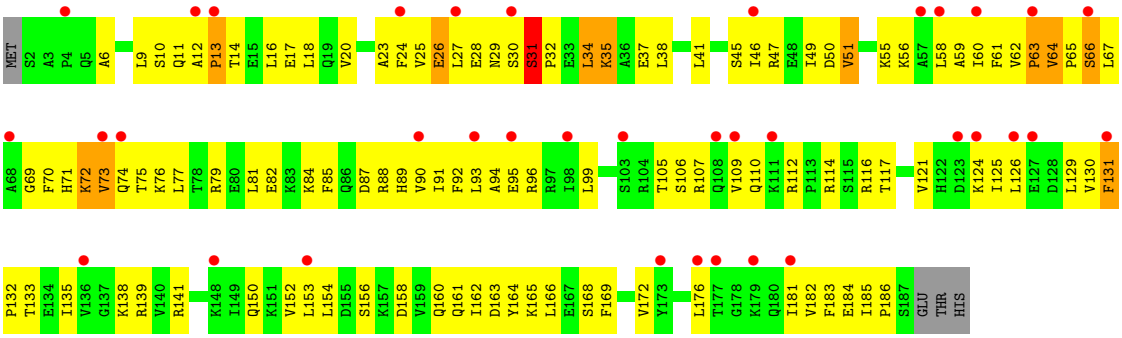
• Molecule 9: 40S ribosomal protein S7-A

Chain I:



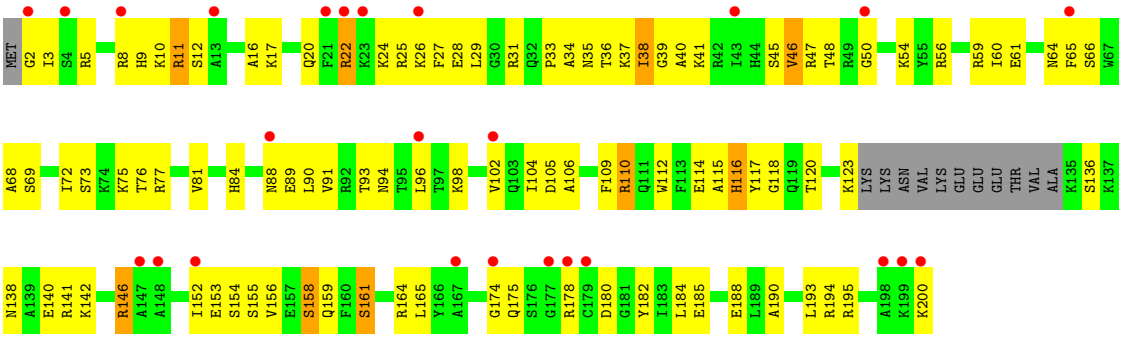
• Molecule 9: 40S ribosomal protein S7-A

Chain s7:



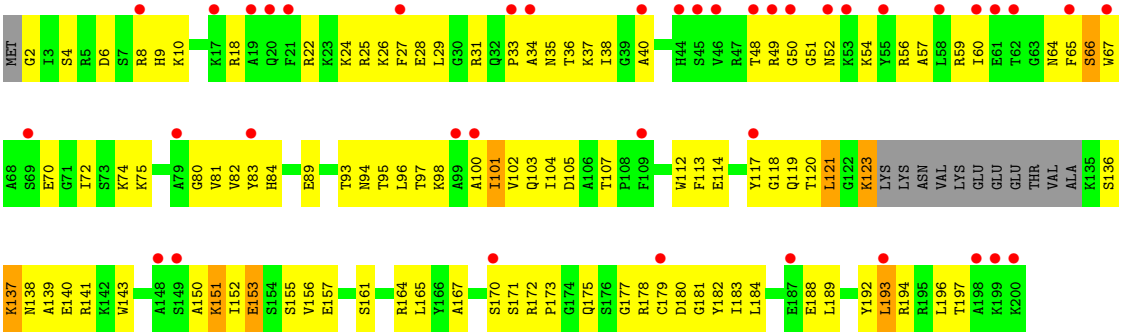
• Molecule 10: 40S ribosomal protein S8-A

Chain J:



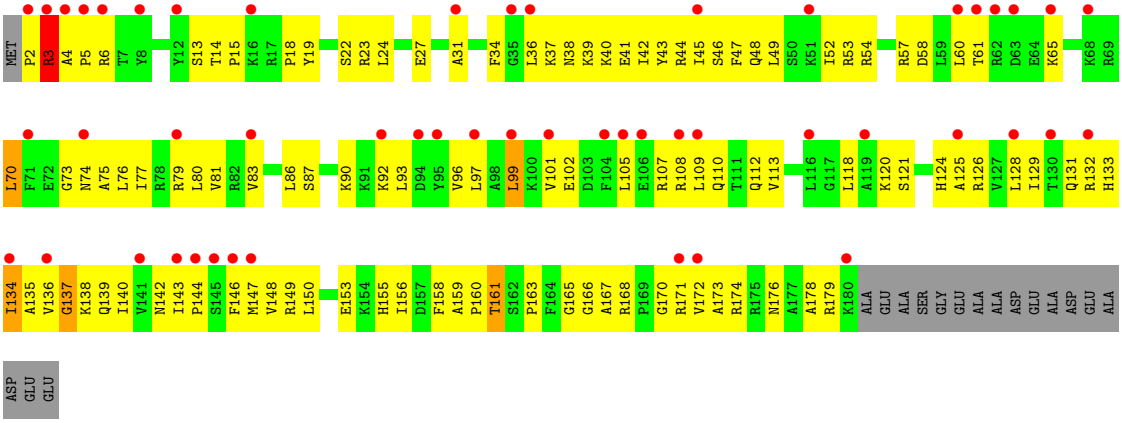
• Molecule 10: 40S ribosomal protein S8-A

Chain s8:



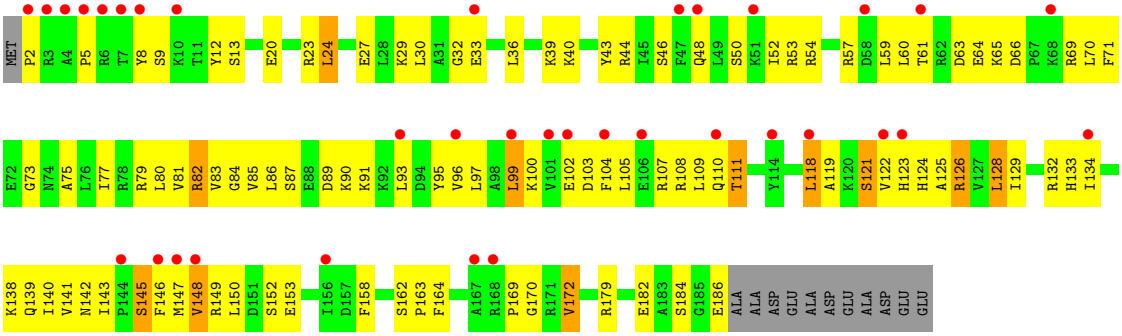
• Molecule 11: 40S ribosomal protein S9-A

Chain K:



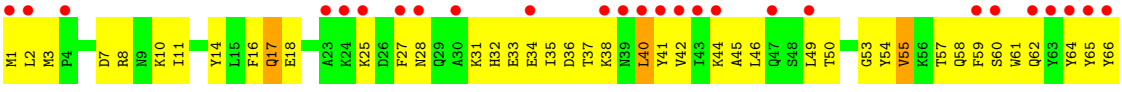
• Molecule 11: 40S ribosomal protein S9-A

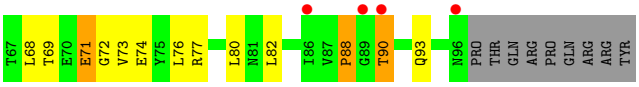
Chain s9:



• Molecule 12: Small ribosomal subunit protein eS10A,Small ribosomal subunit protein eS10A,40S ribosomal protein S10-A

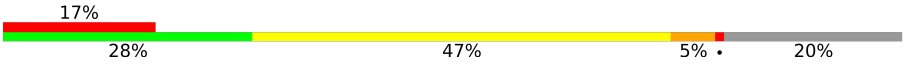
Chain L:

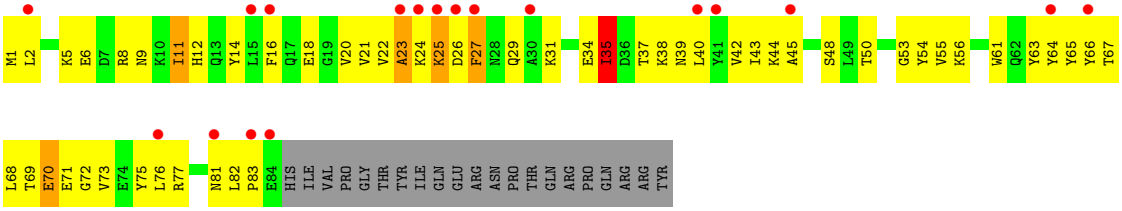




• Molecule 12: Small ribosomal subunit protein eS10A,Small ribosomal subunit protein eS10A,40S ribosomal protein S10-A

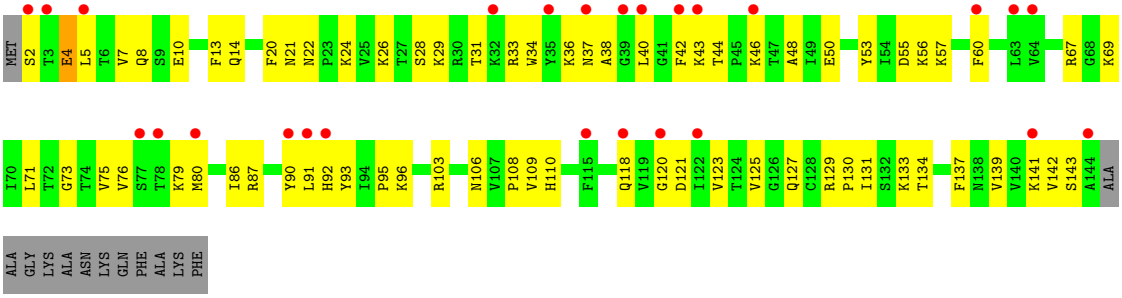
Chain c0:





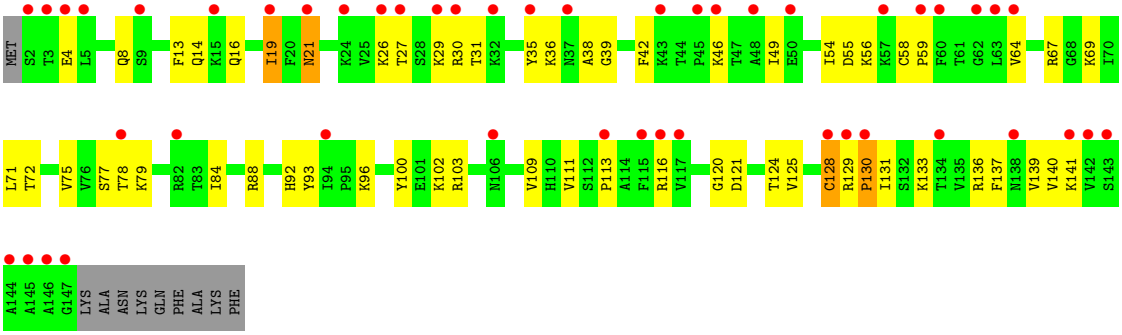
• Molecule 13: 40S ribosomal protein S11-A

Chain M:



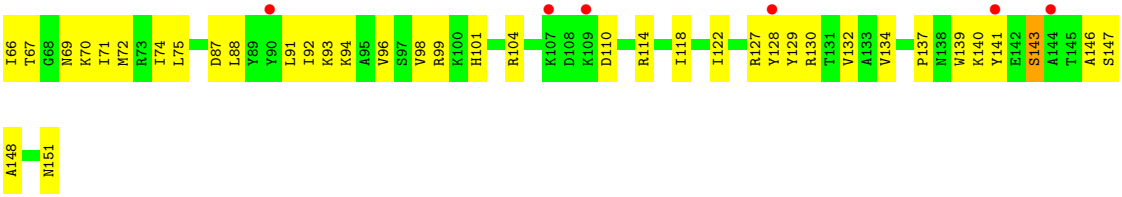
• Molecule 13: 40S ribosomal protein S11-A

Chain c1:



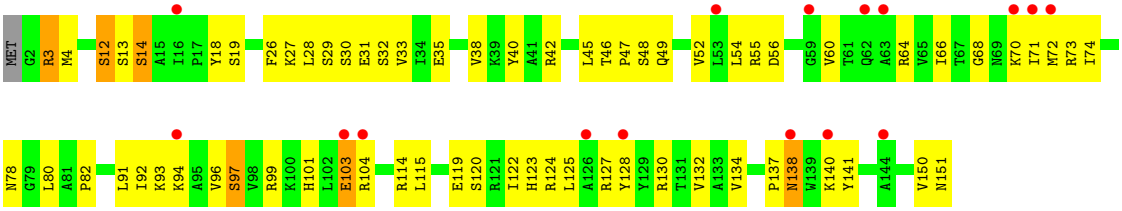
• Molecule 14: 40S ribosomal protein S13

Chain O:



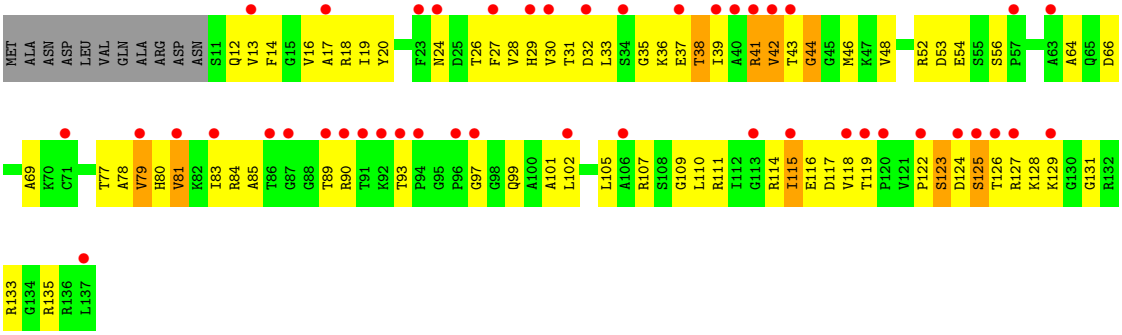
• Molecule 14: 40S ribosomal protein S13

Chain c3:



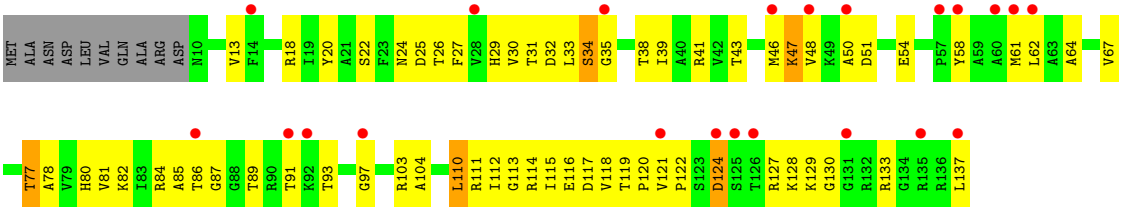
• Molecule 15: 40S ribosomal protein S14-B

Chain P:



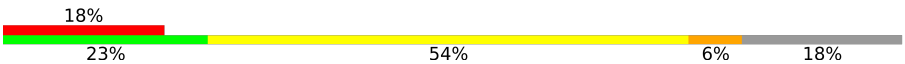
• Molecule 15: 40S ribosomal protein S14-B

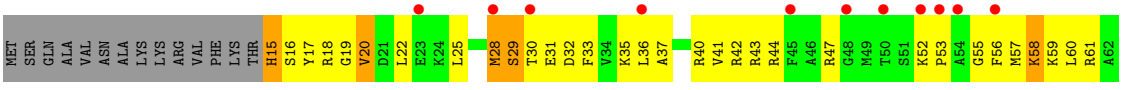
Chain c4:

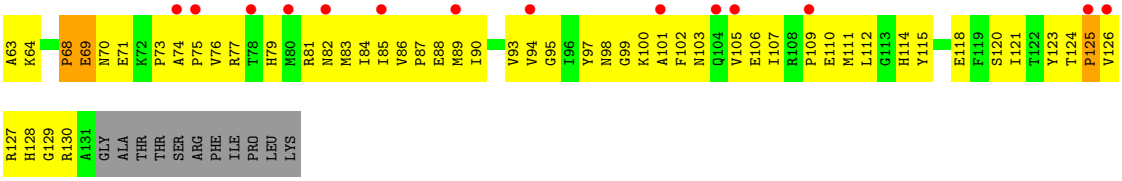


• Molecule 16: 40S ribosomal protein S15

Chain Q:

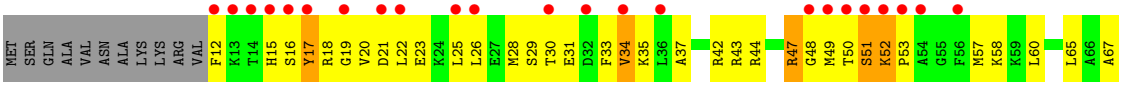


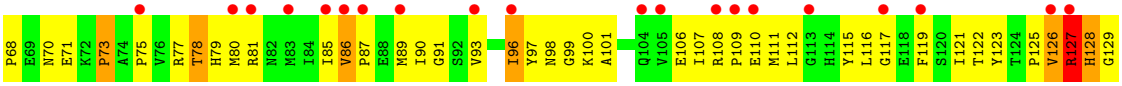


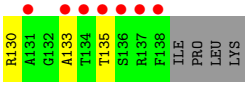


• Molecule 16: 40S ribosomal protein S15

Chain c5:

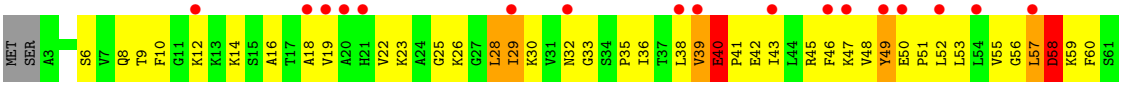


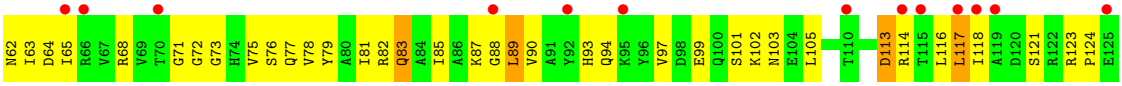


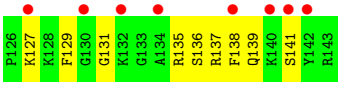


• Molecule 17: 40S ribosomal protein S16-A

Chain R:

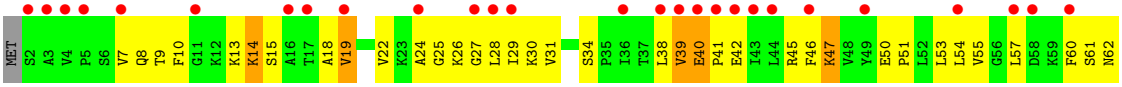


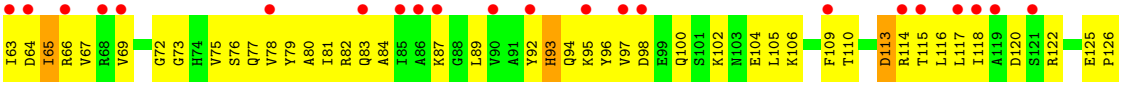


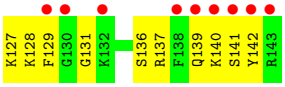


• Molecule 17: 40S ribosomal protein S16-A

Chain c6:

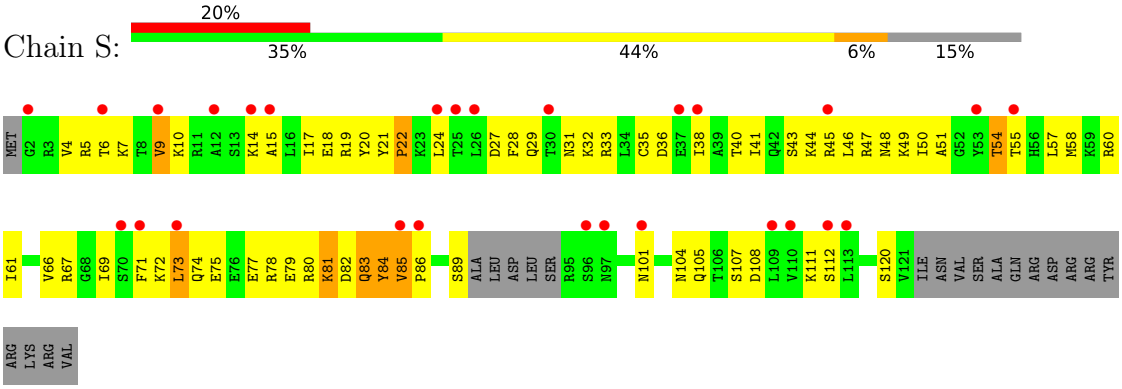






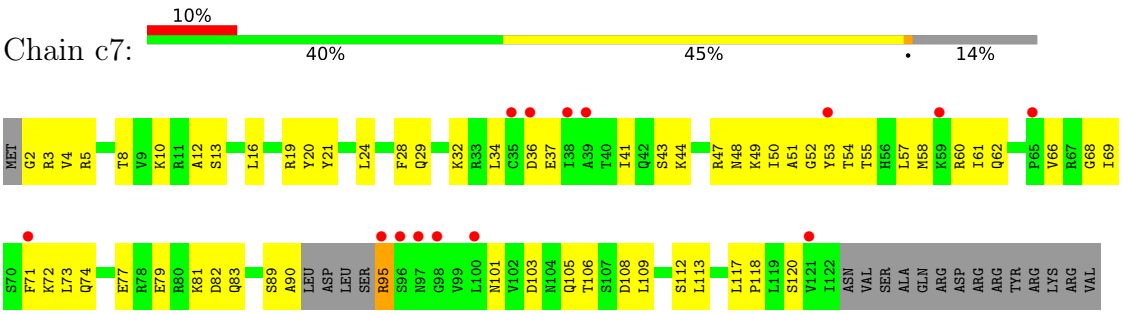
• Molecule 18: 40S ribosomal protein S17-A

Chain S:



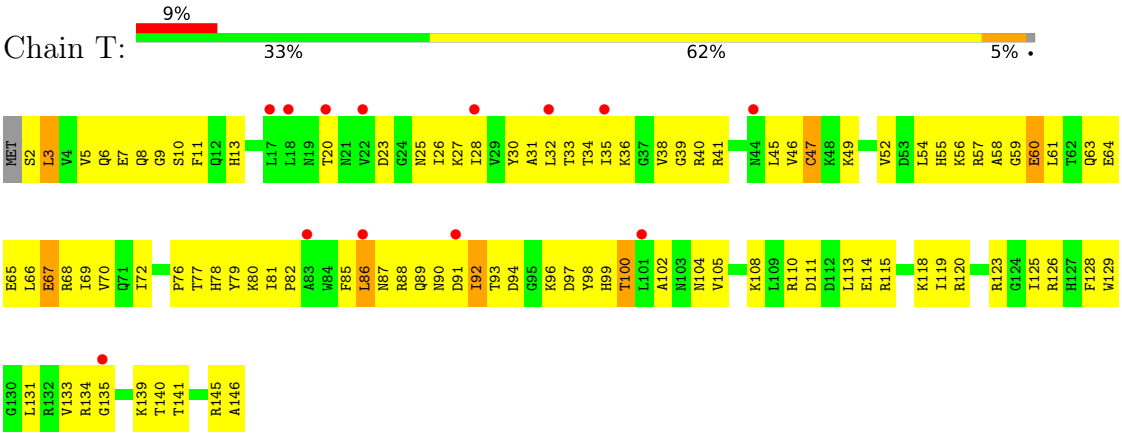
- Molecule 18: 40S ribosomal protein S17-A

Chain c7:



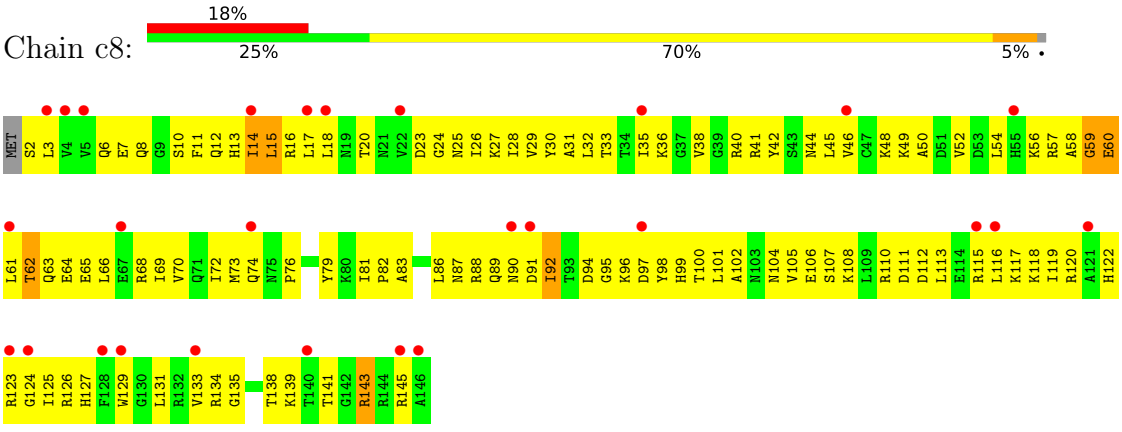
- Molecule 19: 40S ribosomal protein S18-A

Chain T:



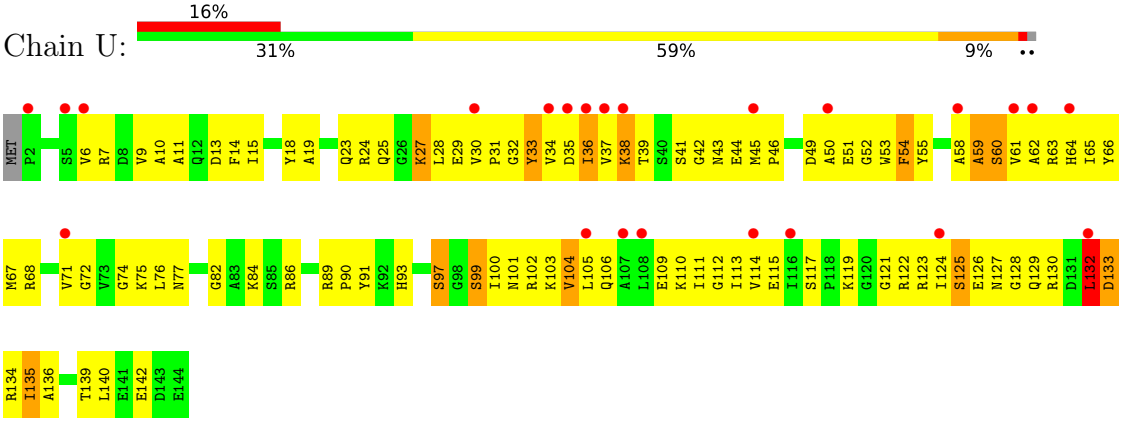
- Molecule 19: 40S ribosomal protein S18-A

Chain c8:



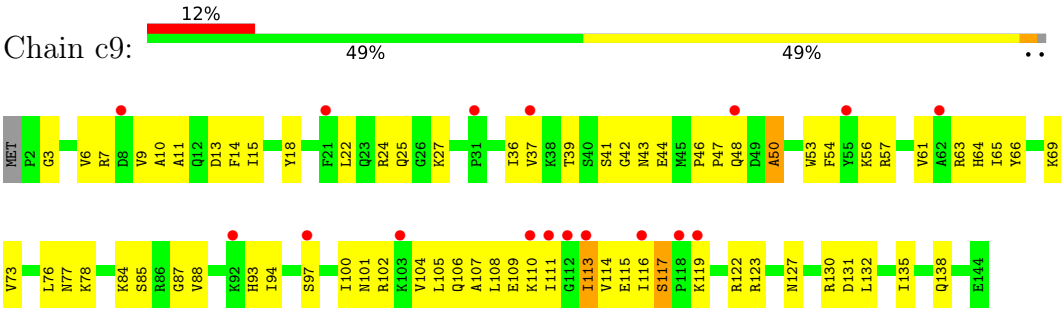
• Molecule 20: 40S ribosomal protein S19-A

Chain U:



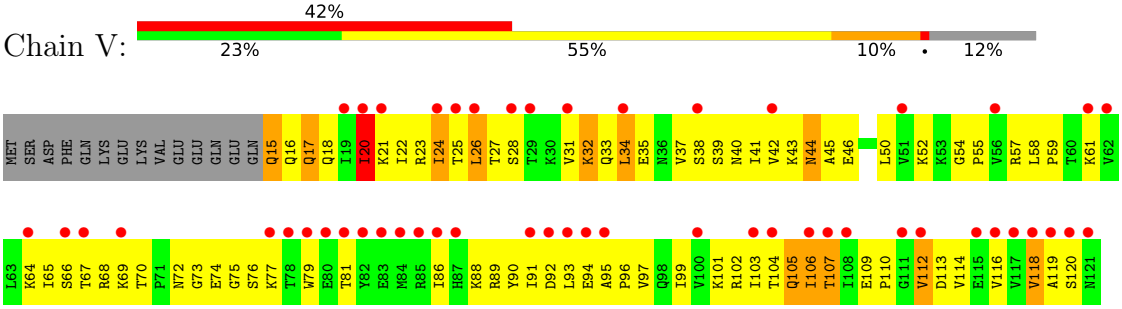
• Molecule 20: 40S ribosomal protein S19-A

Chain c9:



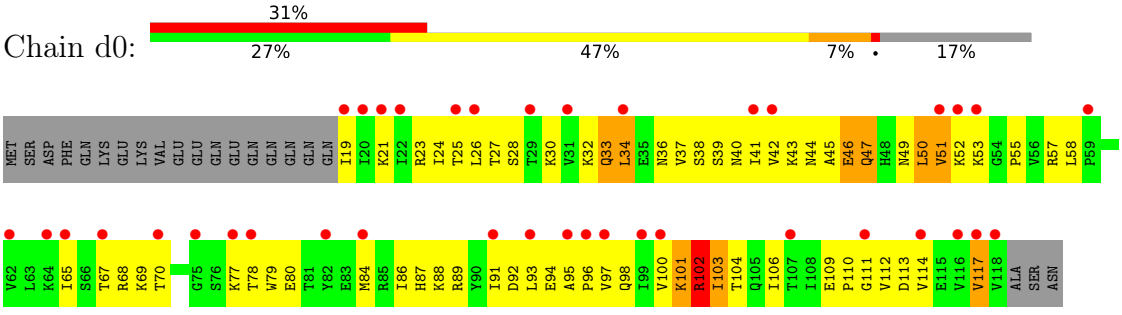
• Molecule 21: Small ribosomal subunit protein uS10

Chain V:



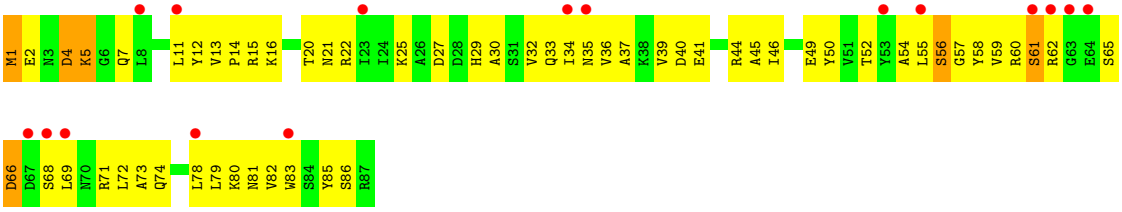
• Molecule 21: Small ribosomal subunit protein uS10

Chain d0:

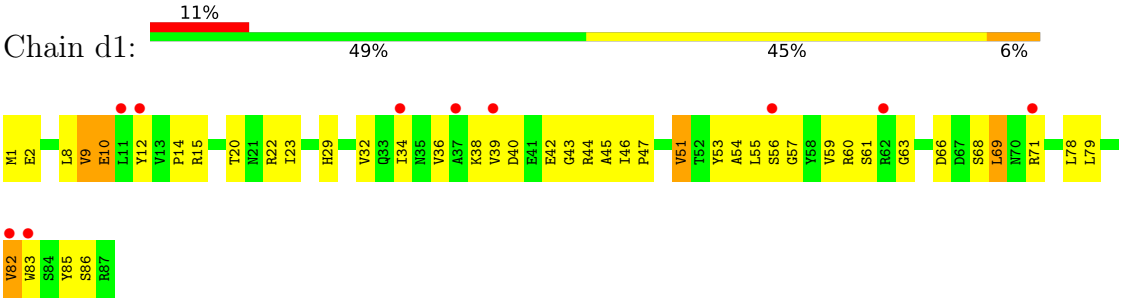


• Molecule 22: 40S ribosomal protein S21-A

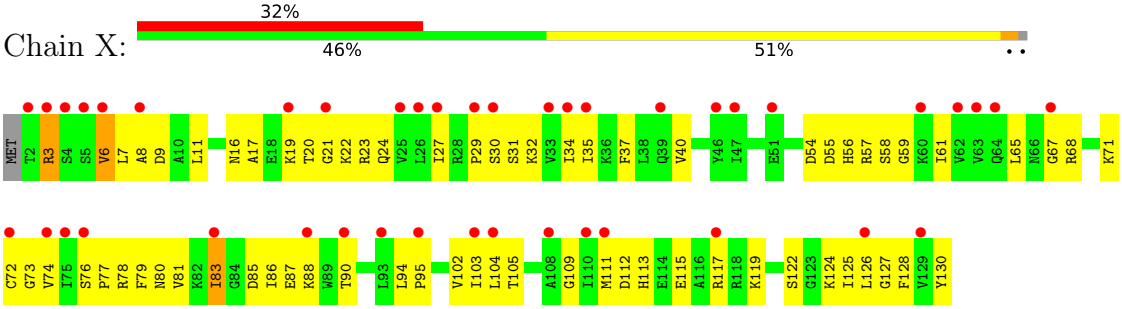
Chain W:



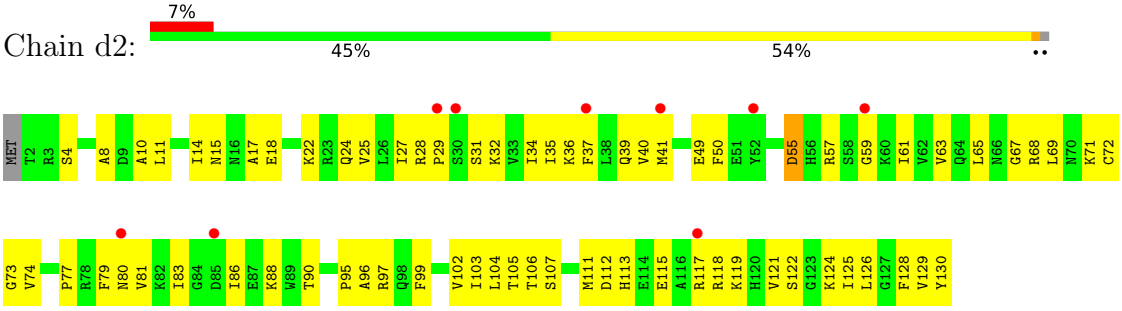
• Molecule 22: 40S ribosomal protein S21-A



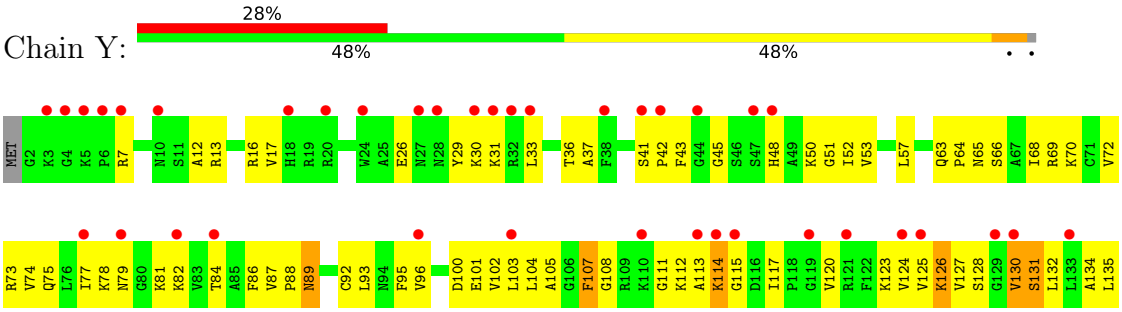
• Molecule 23: 40S ribosomal protein S22-A

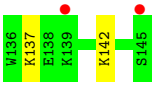


• Molecule 23: 40S ribosomal protein S22-A



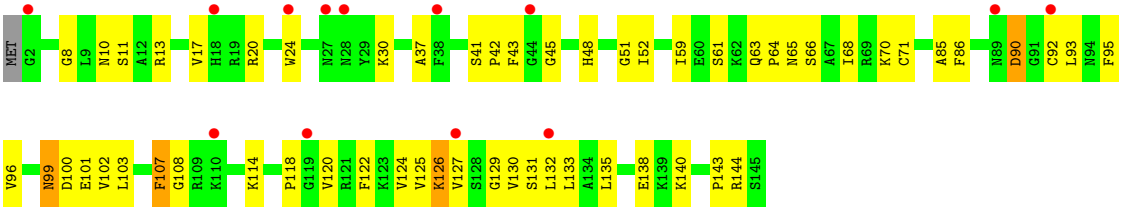
• Molecule 24: 40S ribosomal protein S23-A





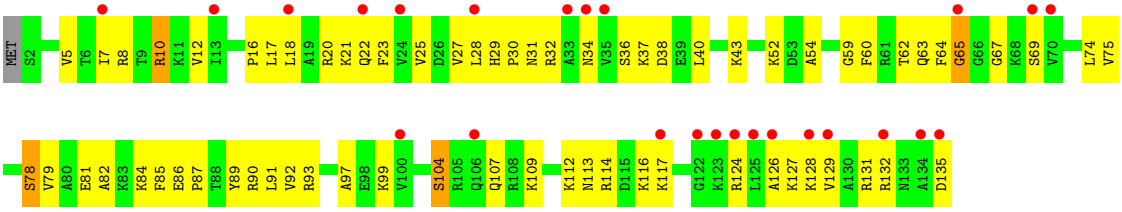
• Molecule 24: 40S ribosomal protein S23-A

Chain d3:



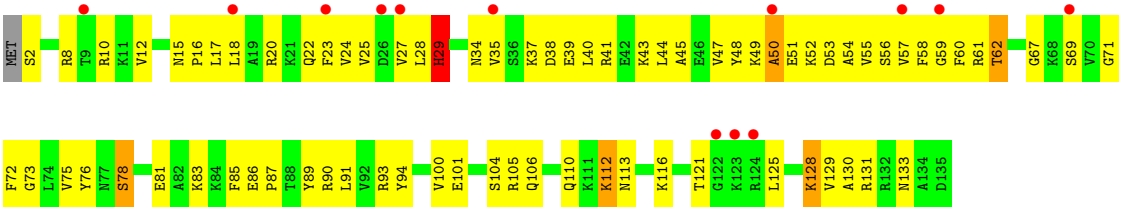
• Molecule 25: 40S ribosomal protein S24-A

Chain Z:



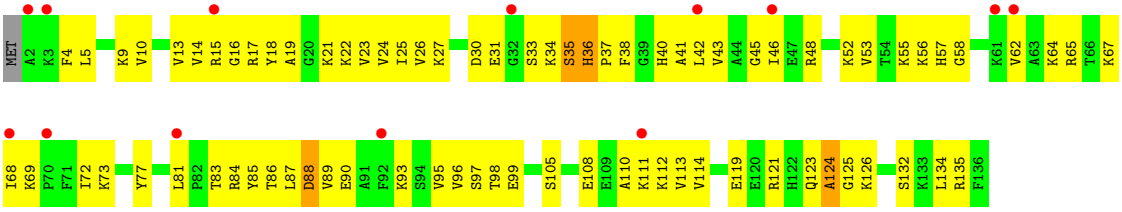
• Molecule 25: 40S ribosomal protein S24-A

Chain d4:



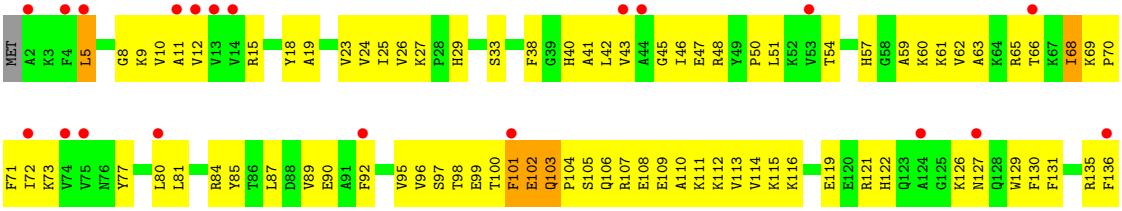
• Molecule 26: 60S ribosomal protein L27-A

Chain AA:

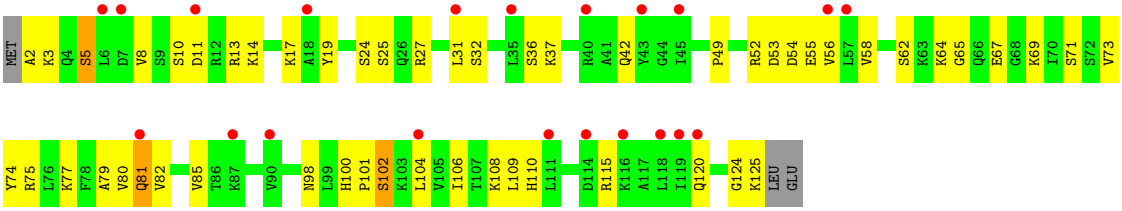


• Molecule 26: 60S ribosomal protein L27-A

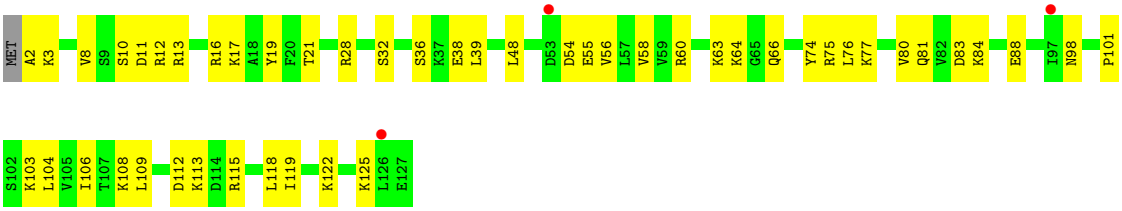
Chain DB:



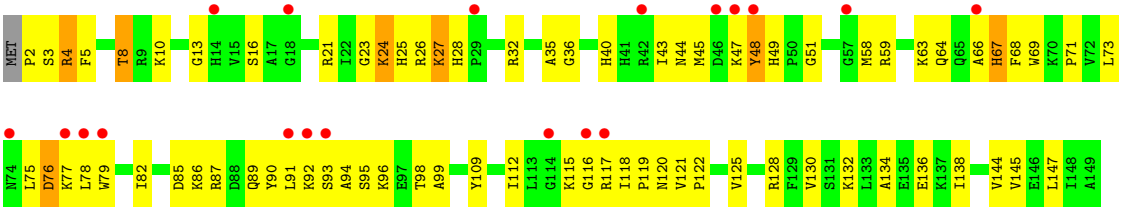
• Molecule 27: 60S ribosomal protein L26-A



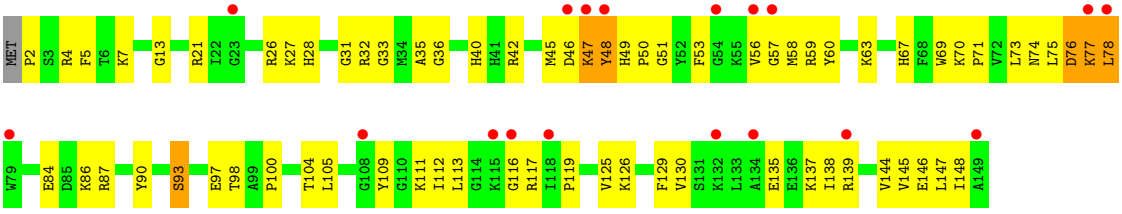
• Molecule 27: 60S ribosomal protein L26-A



• Molecule 28: 60S ribosomal protein L28

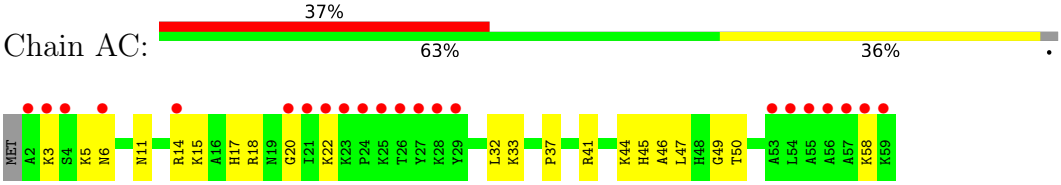


• Molecule 28: 60S ribosomal protein L28



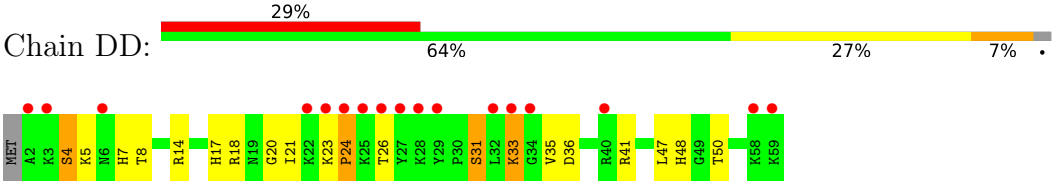
• Molecule 29: 60S ribosomal protein L29

Chain AC:



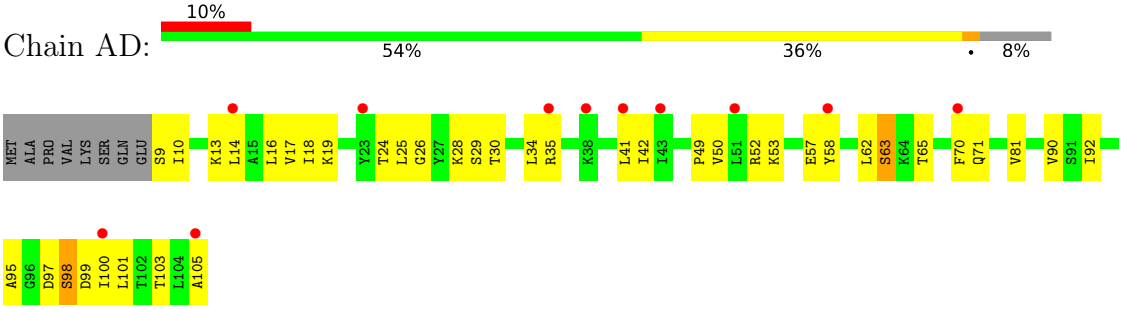
• Molecule 29: 60S ribosomal protein L29

Chain DD:



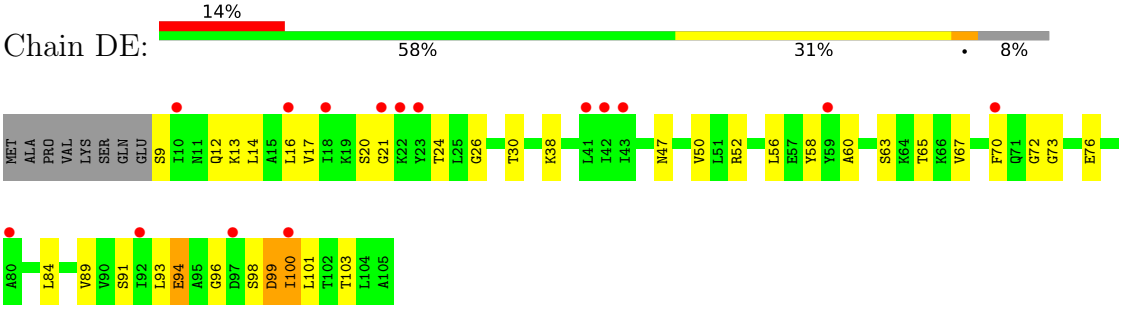
• Molecule 30: 60S ribosomal protein L30

Chain AD:



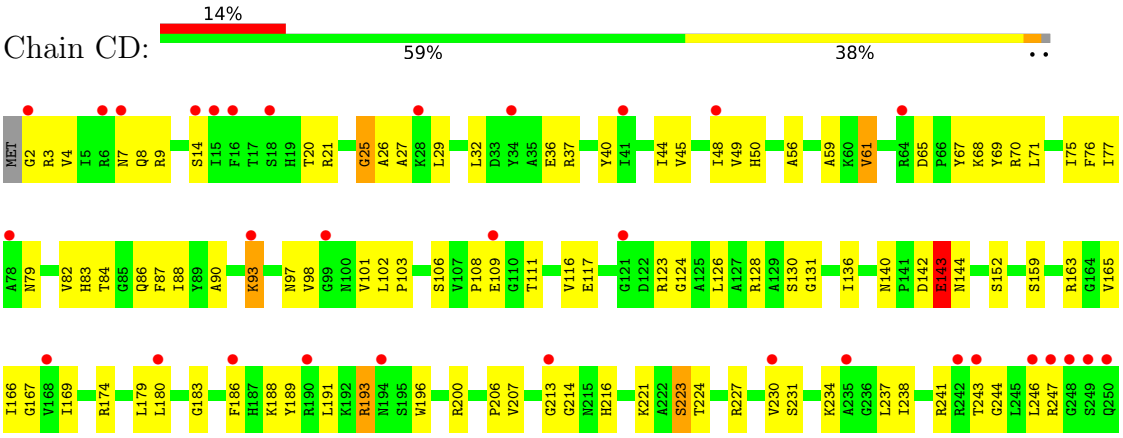
• Molecule 30: 60S ribosomal protein L30

Chain DE:



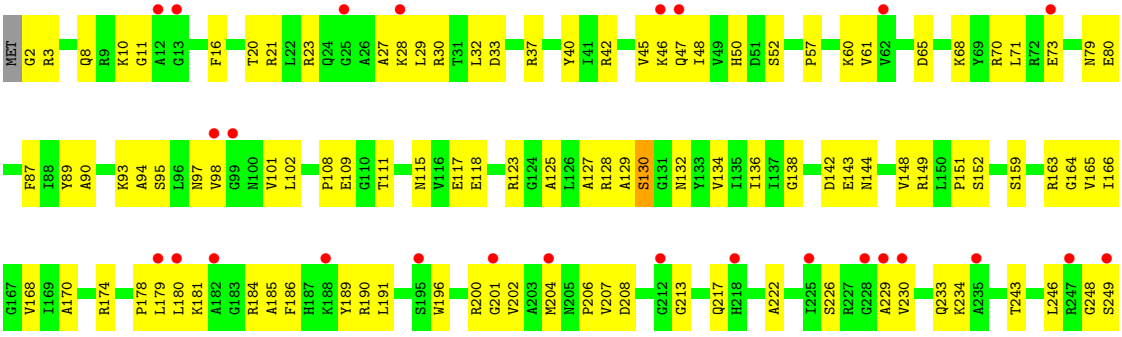
• Molecule 31: 60S ribosomal protein L2-A

Chain CD:



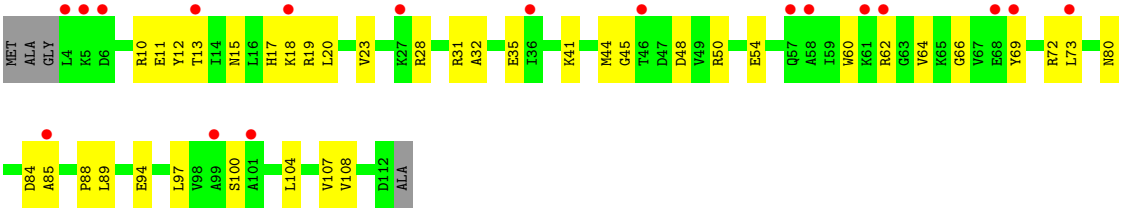
• Molecule 31: 60S ribosomal protein L2-A

Chain j:



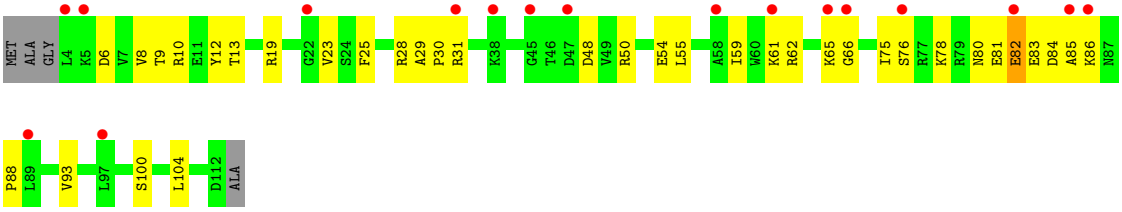
• Molecule 32: 60S ribosomal protein L31-A

Chain AE:



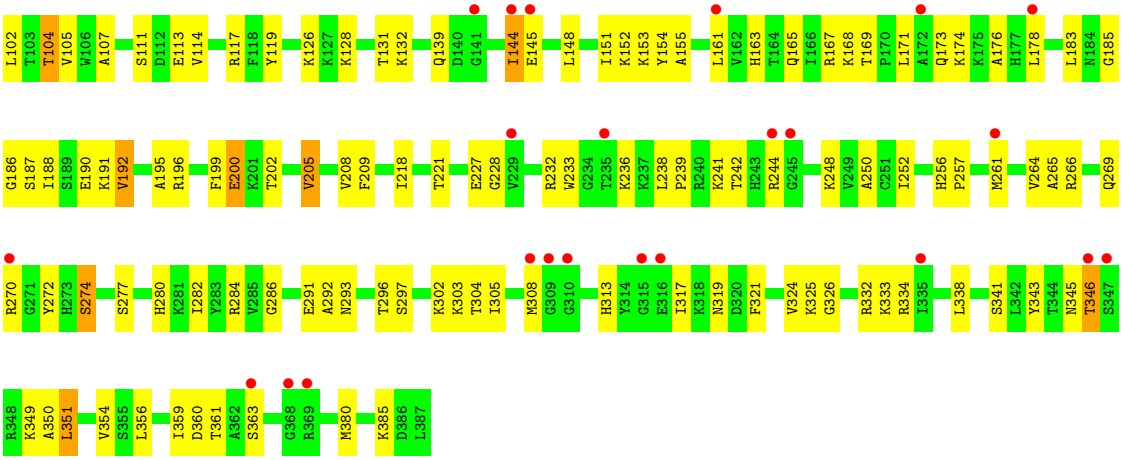
• Molecule 32: 60S ribosomal protein L31-A

Chain DF:

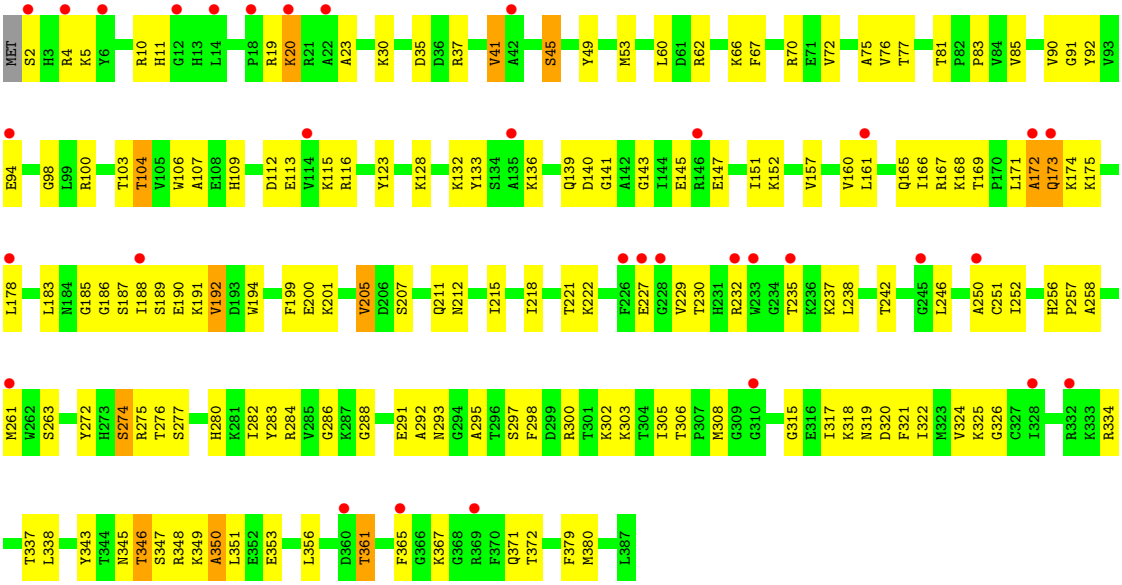


• Molecule 33: 60S ribosomal protein L3

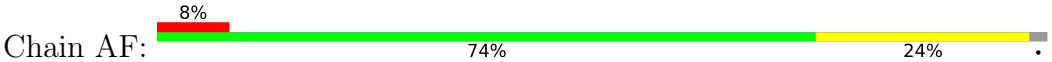
Chain CE:

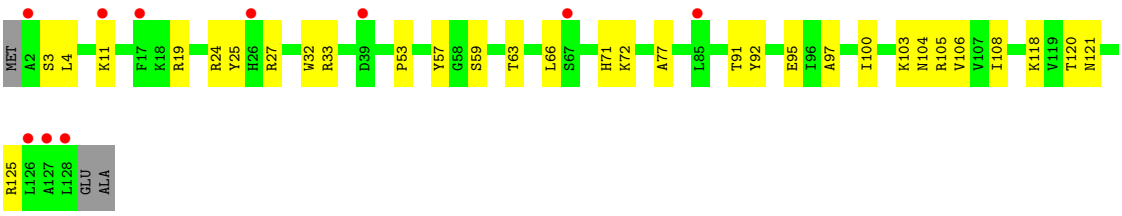


• Molecule 33: 60S ribosomal protein L3

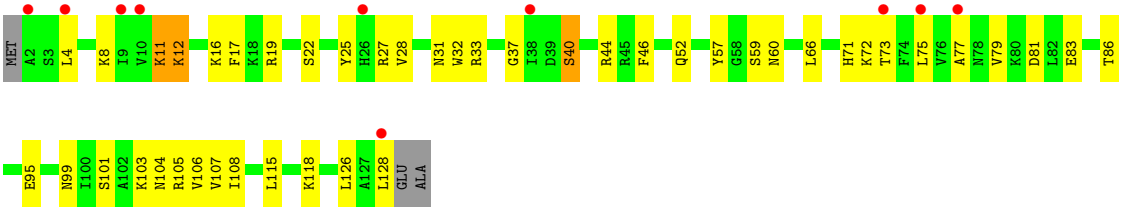


• Molecule 34: 60S ribosomal protein L32



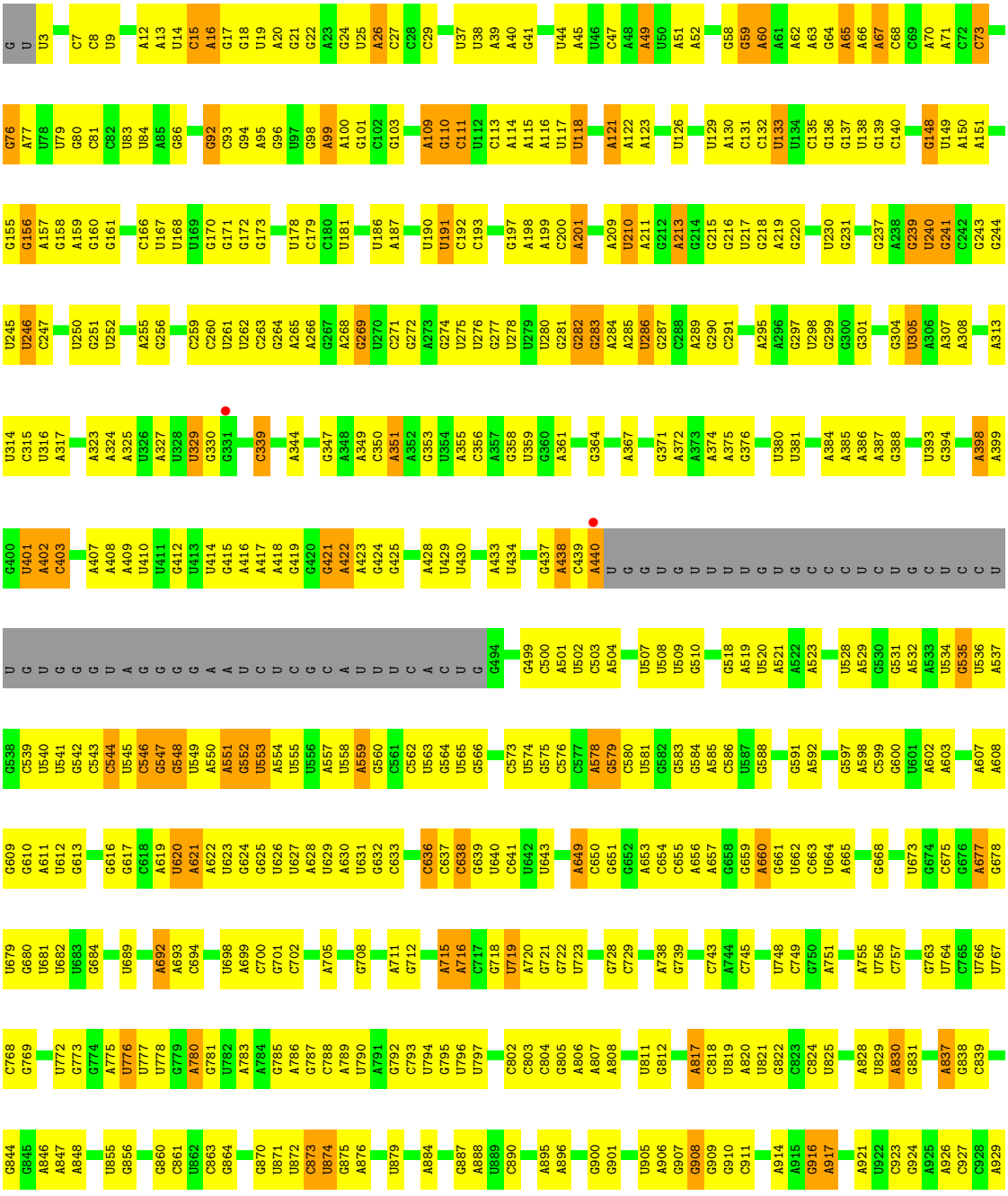


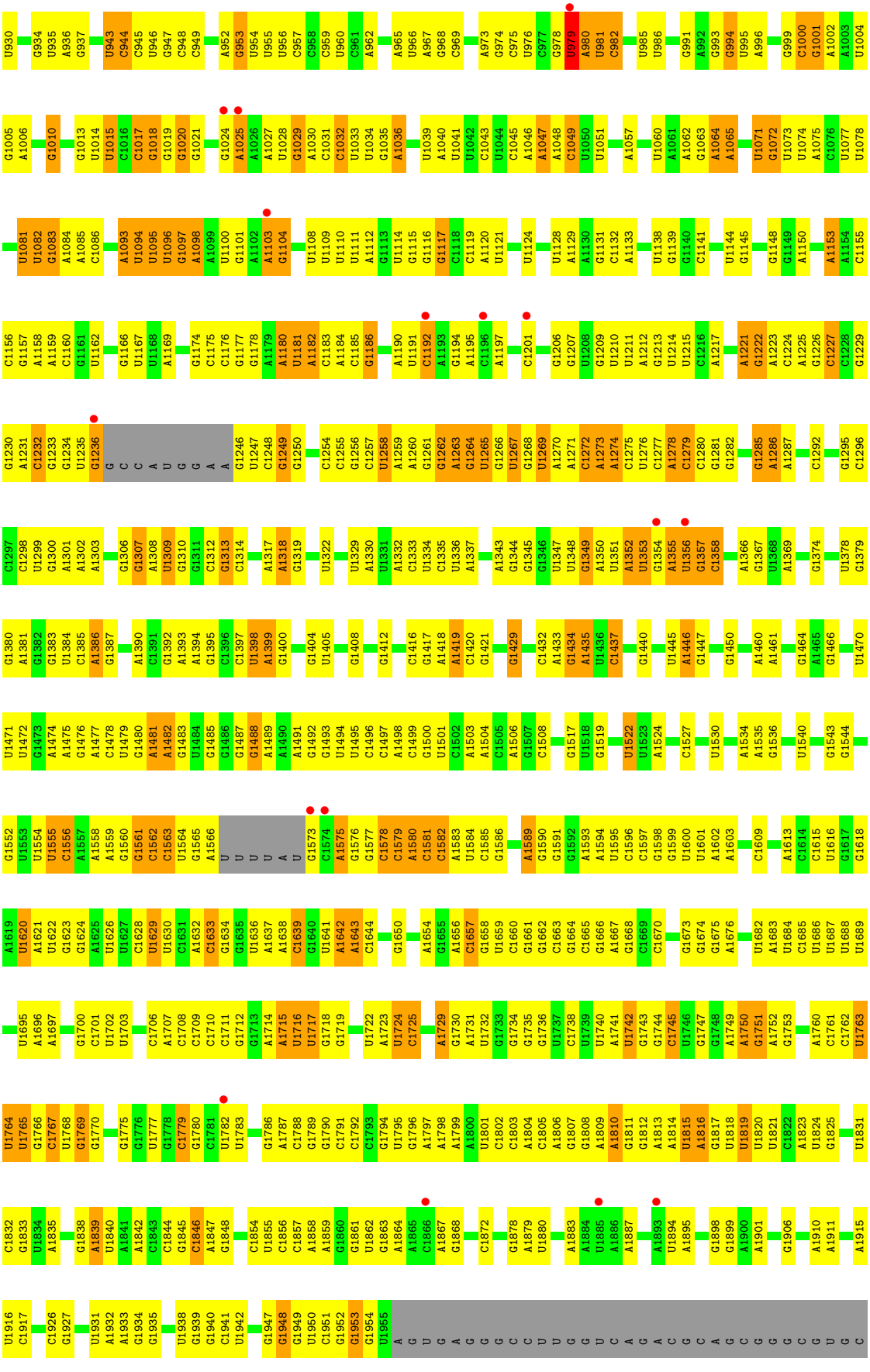
• Molecule 34: 60S ribosomal protein L32

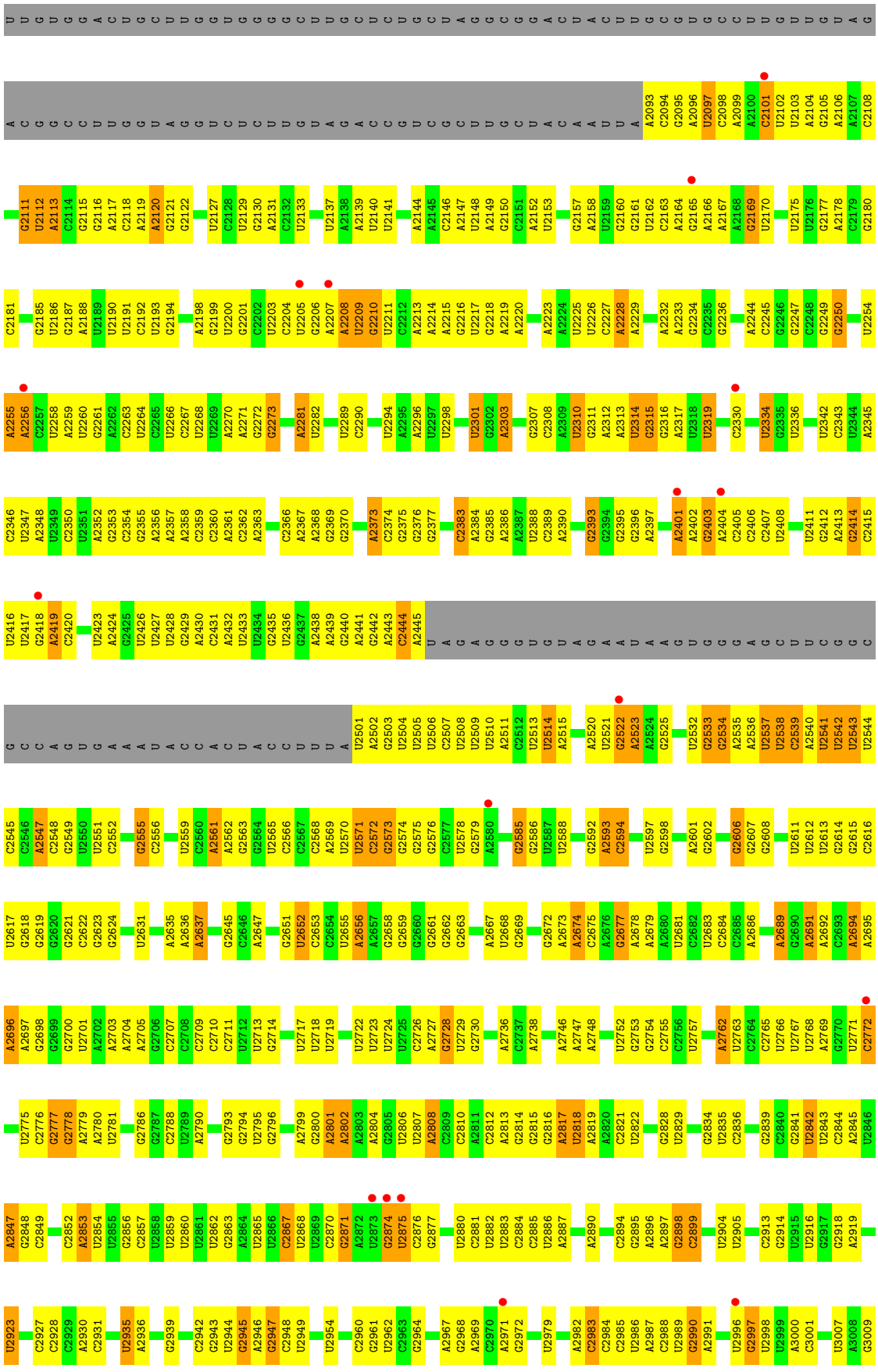


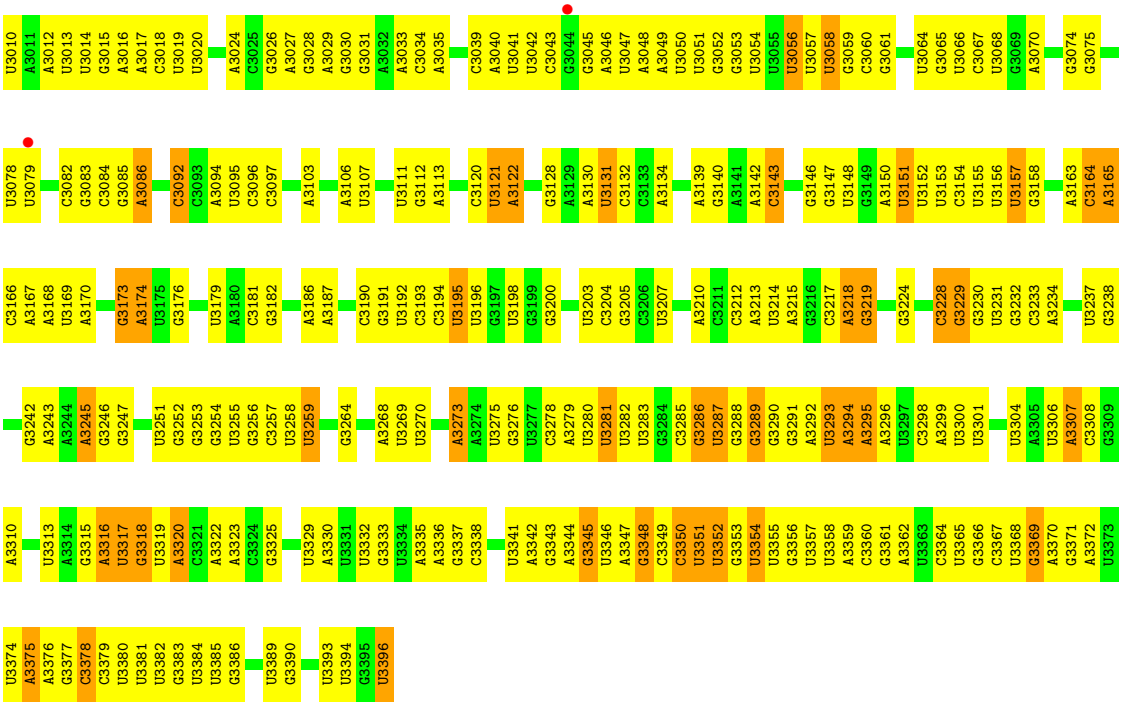
• Molecule 35: 25S ribosomal RNA

Chain 1:



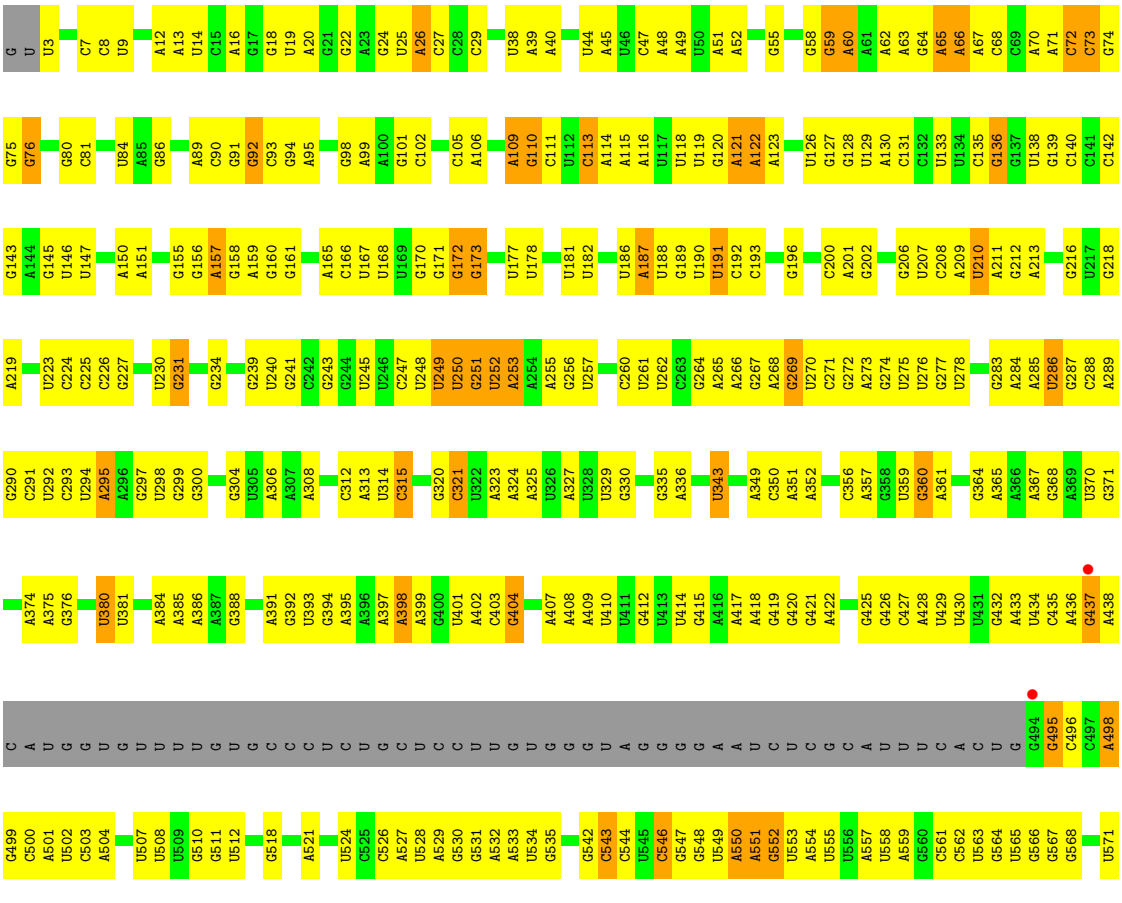


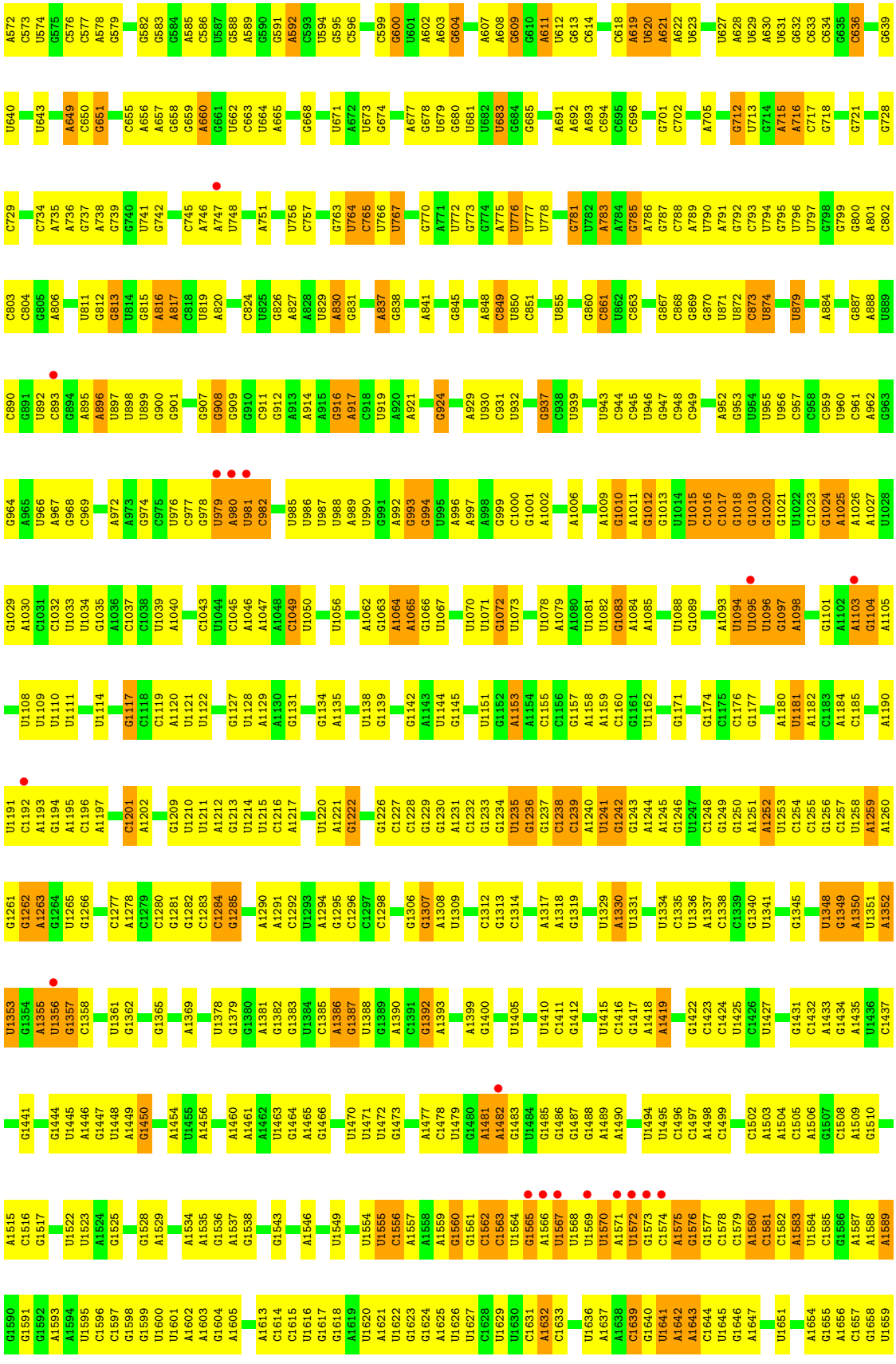


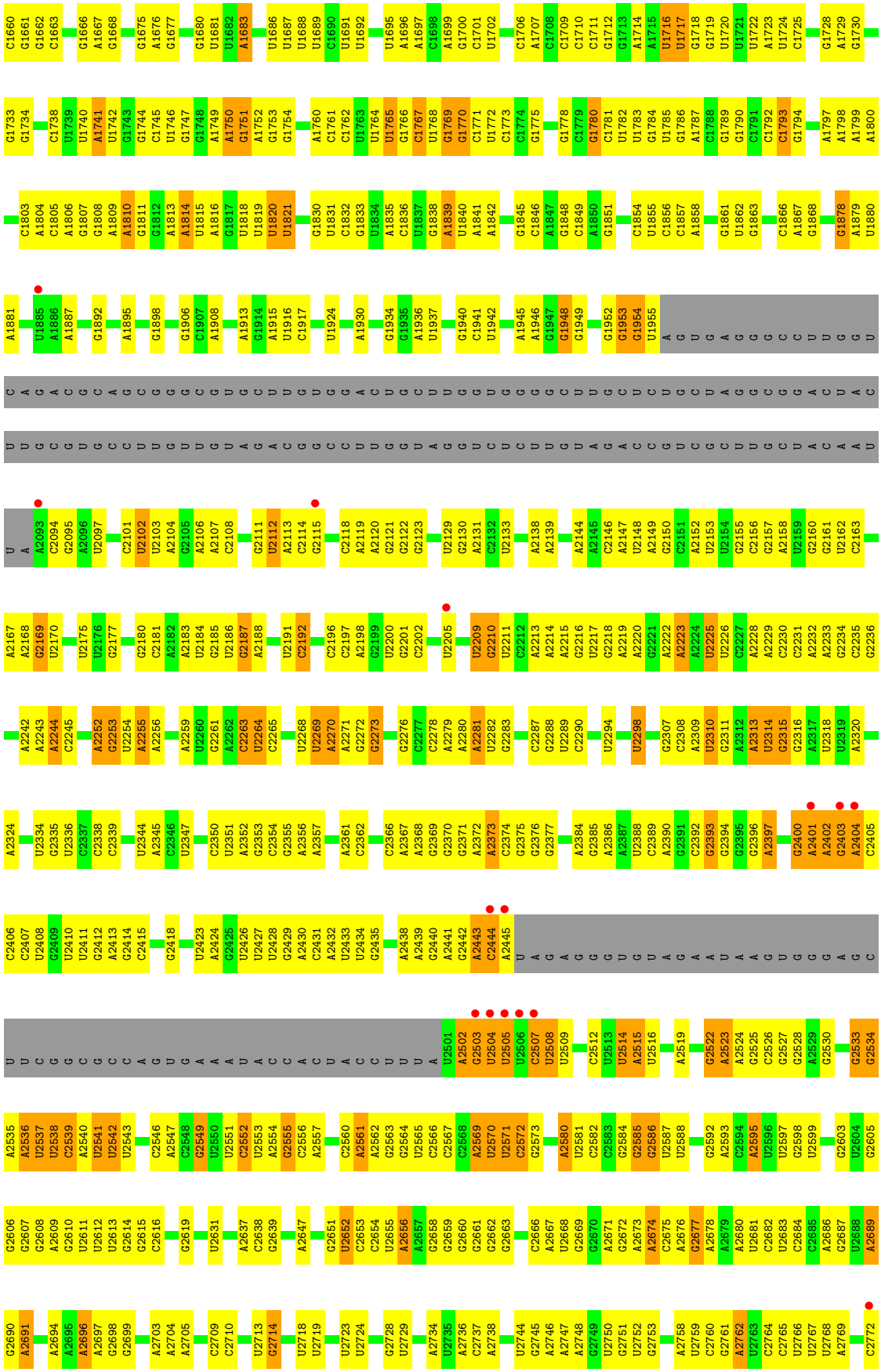


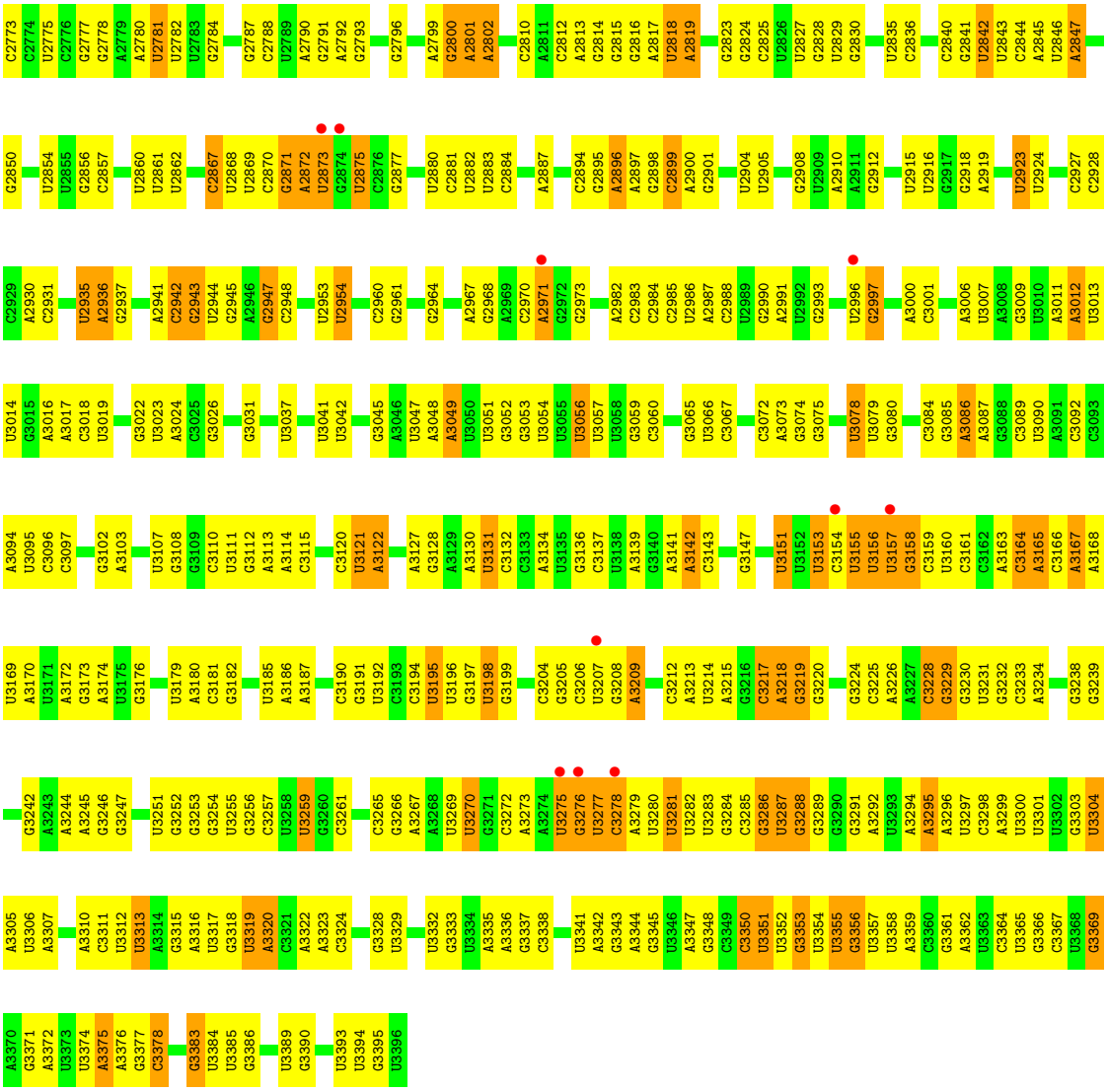
• Molecule 35: 25S ribosomal RNA

Chain AR:



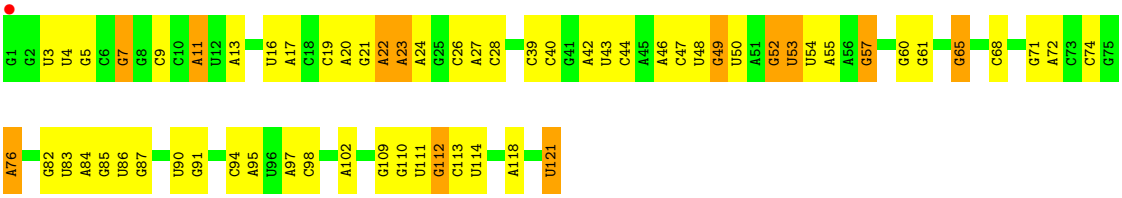






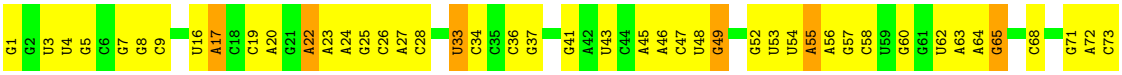
• Molecule 36: 5S ribosomal RNA

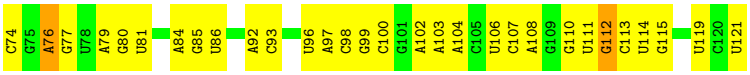
Chain 3:



• Molecule 36: 5S ribosomal RNA

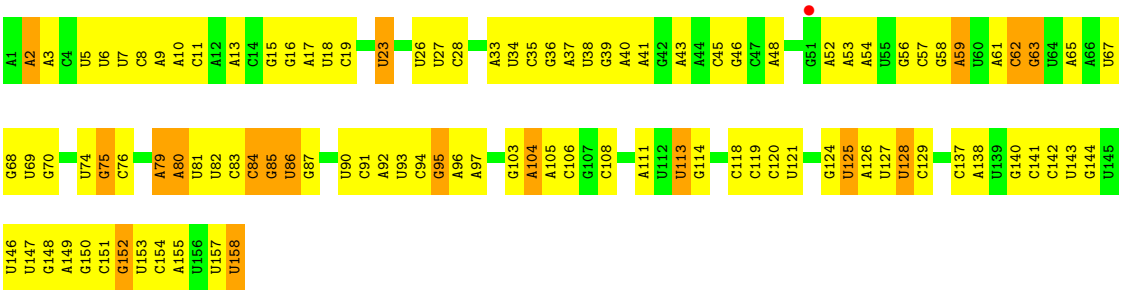
Chain AS:





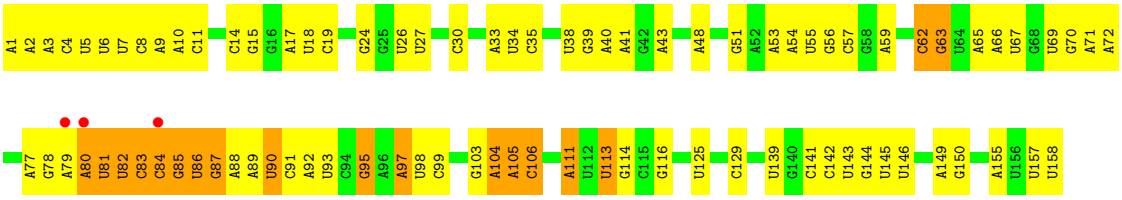
• Molecule 37: 5.8S ribosomal RNA

Chain 4:



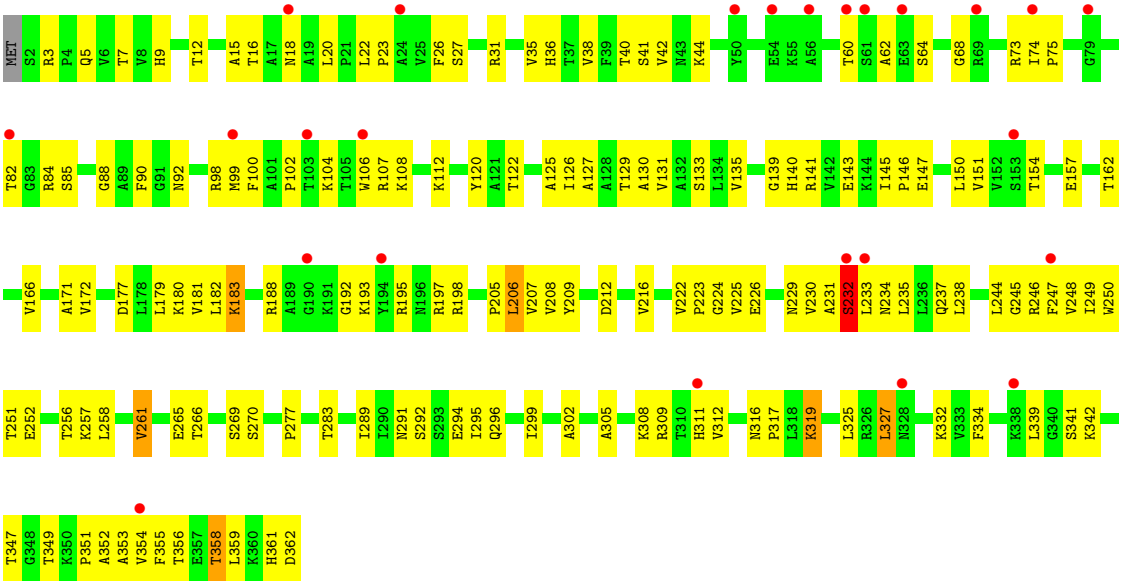
• Molecule 37: 5.8S ribosomal RNA

Chain AT:



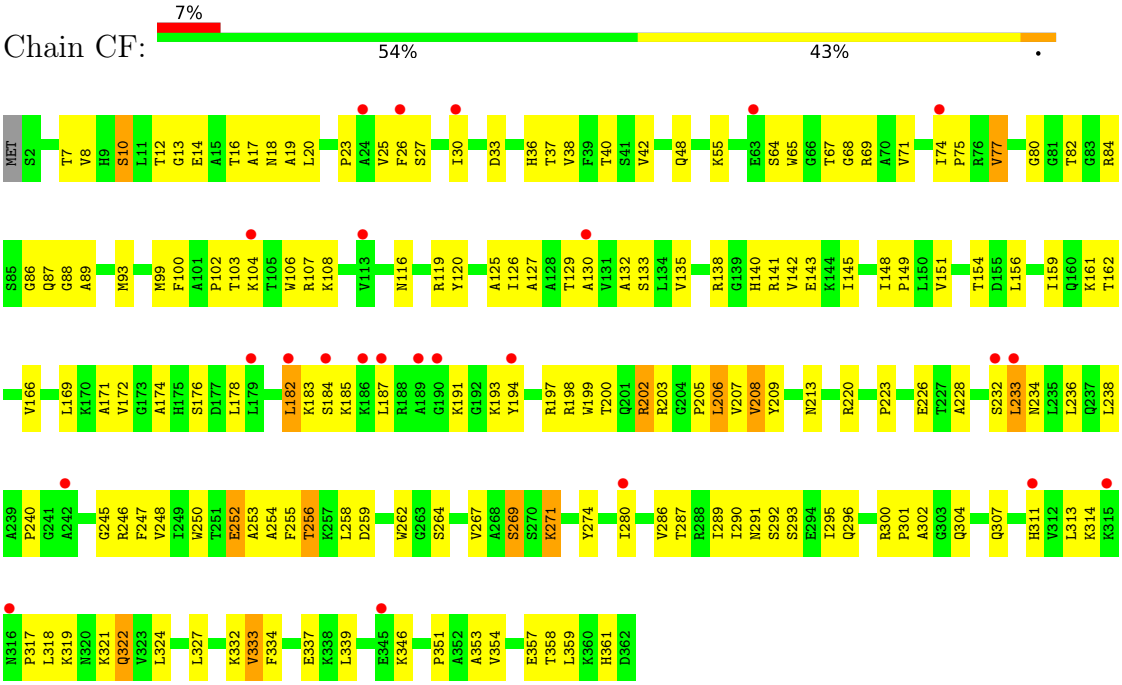
• Molecule 38: 60S ribosomal protein L4-A

Chain l:



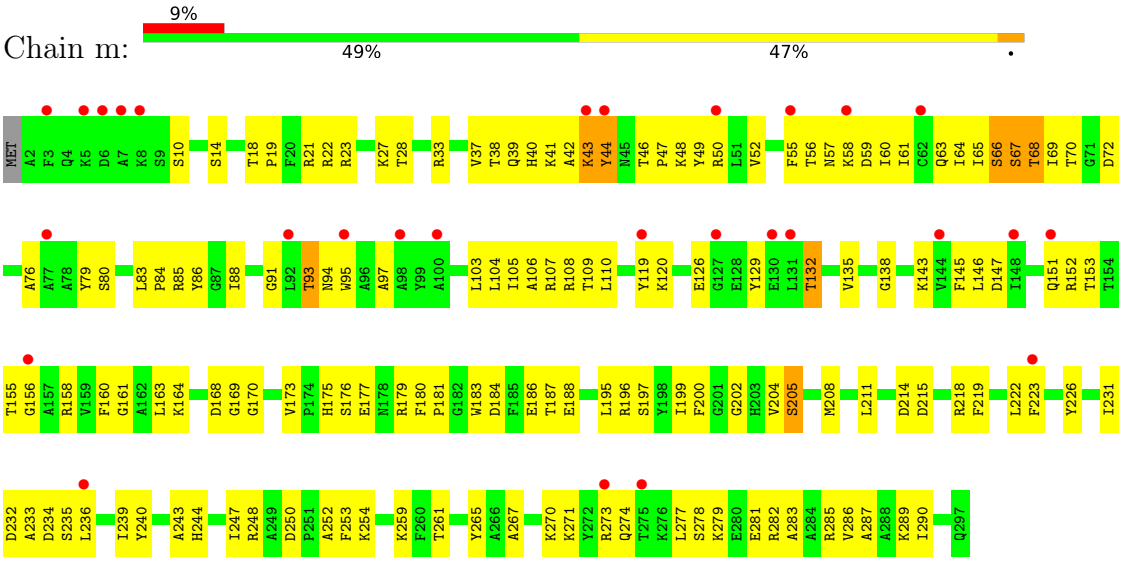
• Molecule 38: 60S ribosomal protein L4-A

Chain CF:



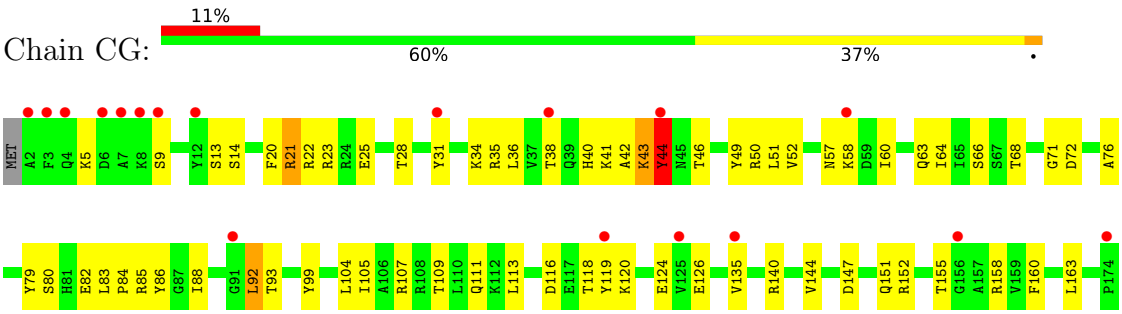
• Molecule 39: 60S ribosomal protein L5

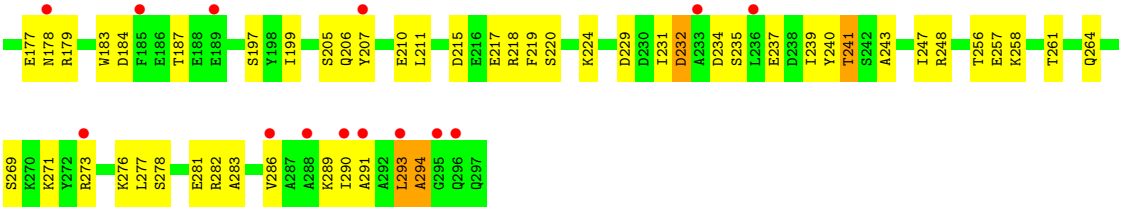
Chain m:



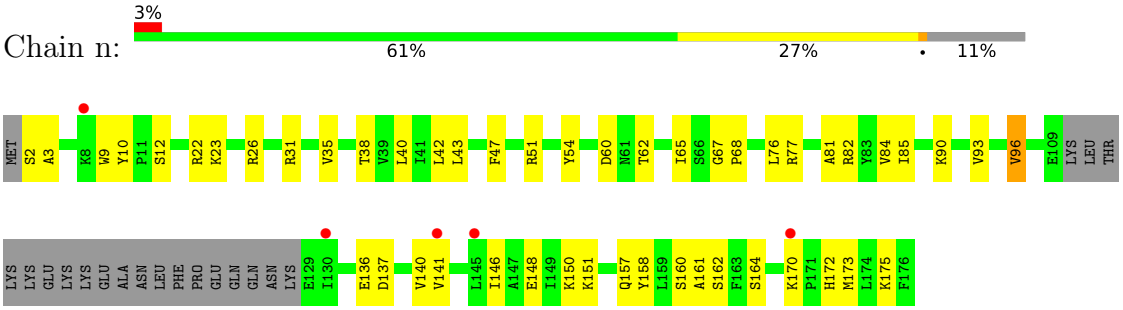
• Molecule 39: 60S ribosomal protein L5

Chain CG:

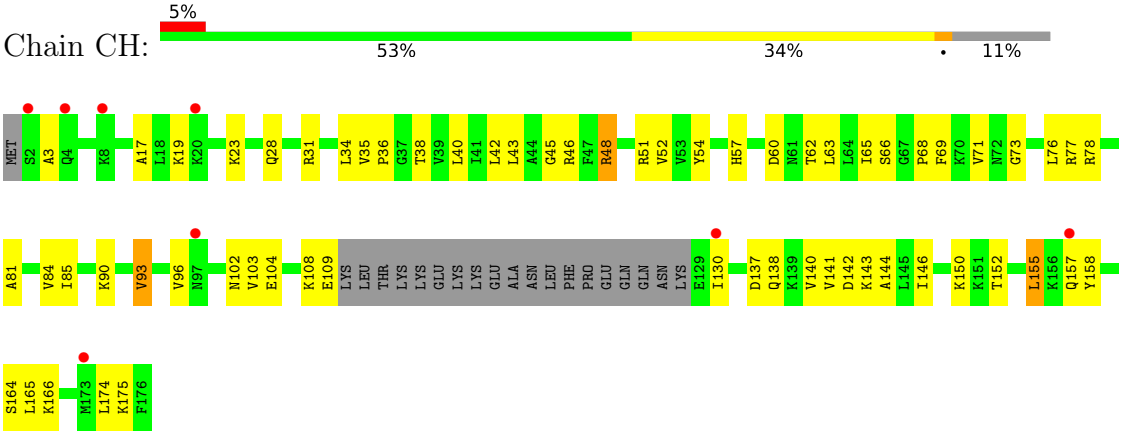




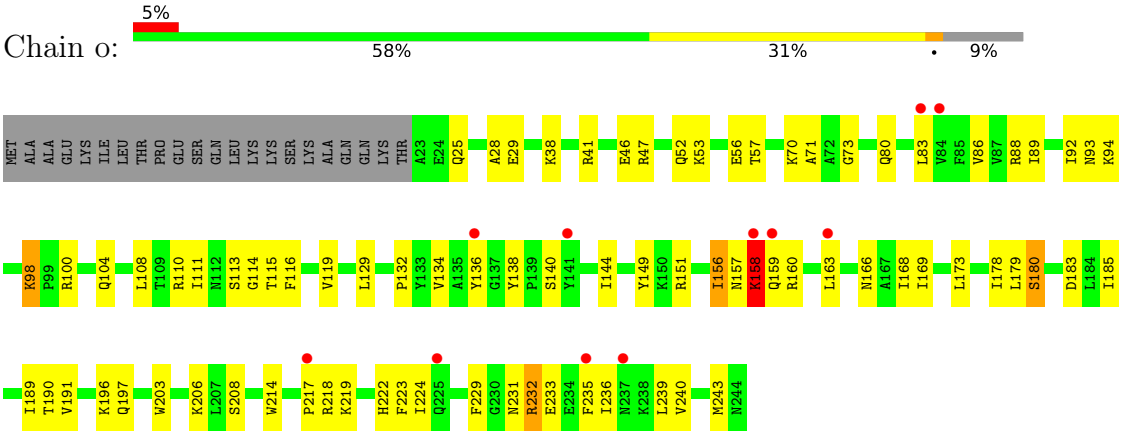
• Molecule 40: 60S ribosomal protein L6-A



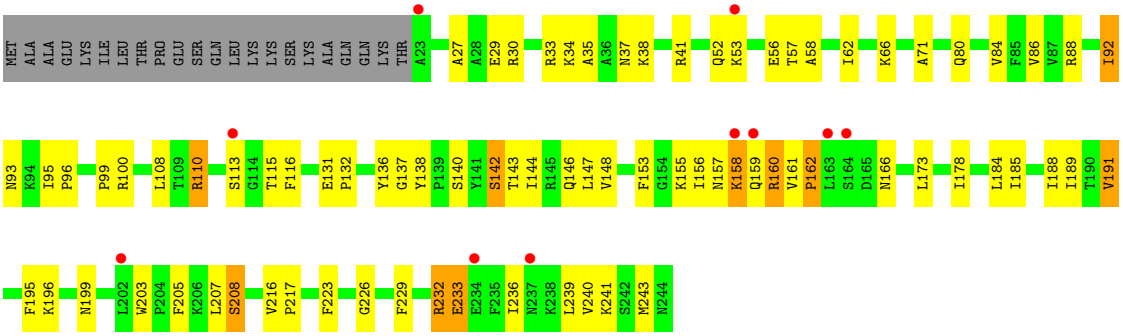
• Molecule 40: 60S ribosomal protein L6-A



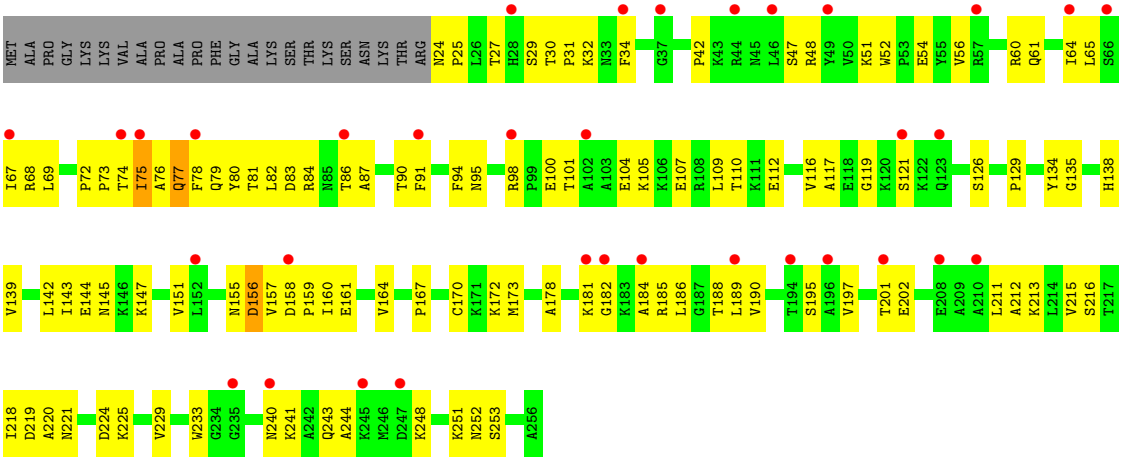
• Molecule 41: 60S ribosomal protein L7-A



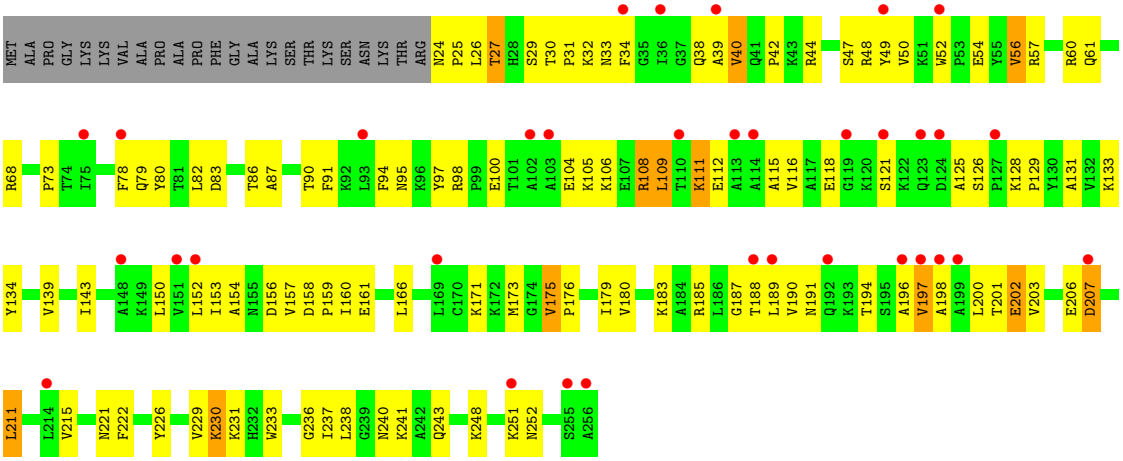
• Molecule 41: 60S ribosomal protein L7-A



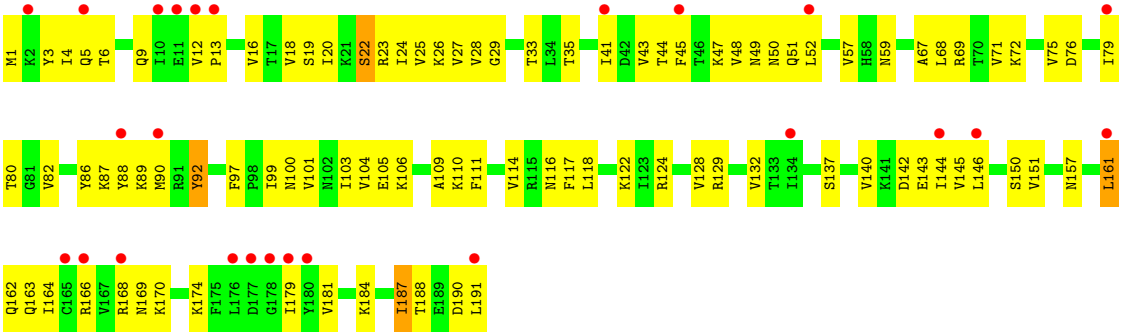
• Molecule 42: 60S ribosomal protein L8-A



• Molecule 42: 60S ribosomal protein L8-A

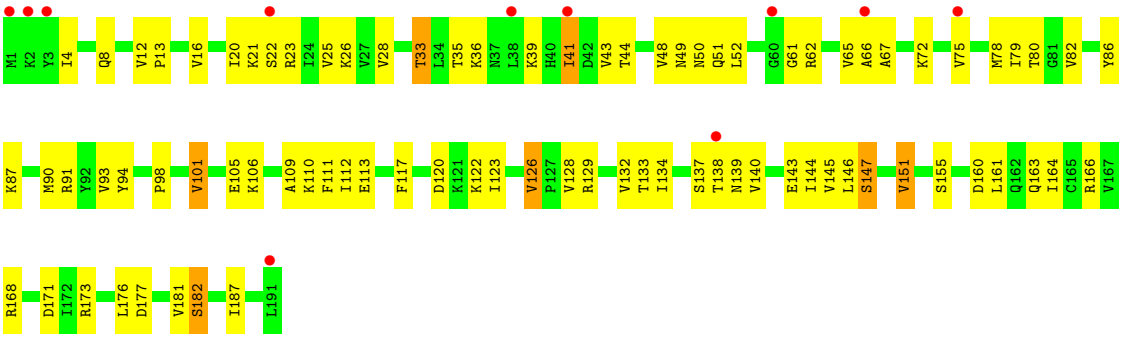


• Molecule 43: 60S ribosomal protein L9-A



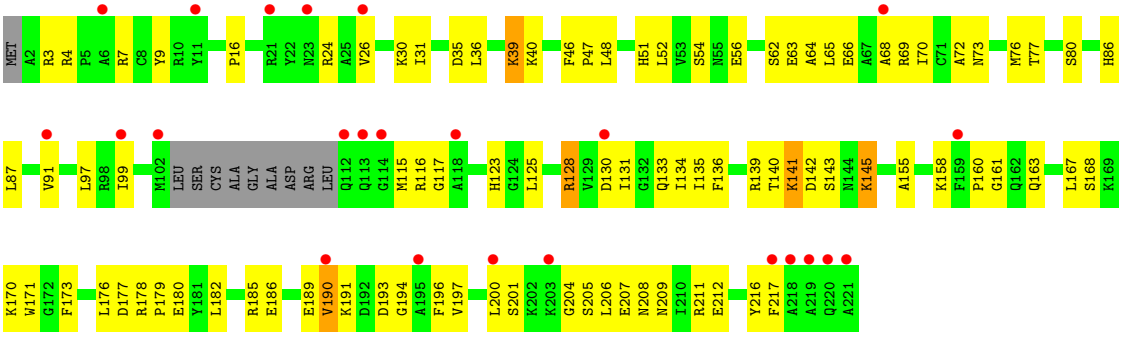
• Molecule 43: 60S ribosomal protein L9-A

Chain CK:



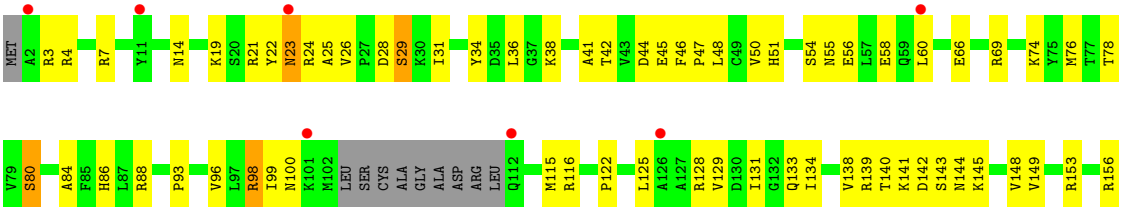
• Molecule 44: 60S ribosomal protein L10

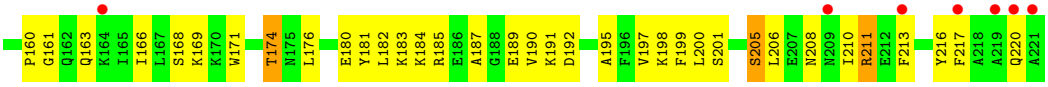
Chain r:



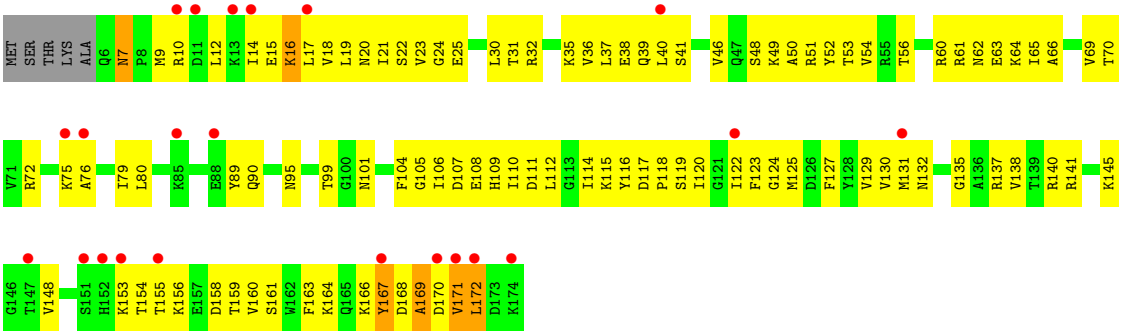
• Molecule 44: 60S ribosomal protein L10

Chain CL:

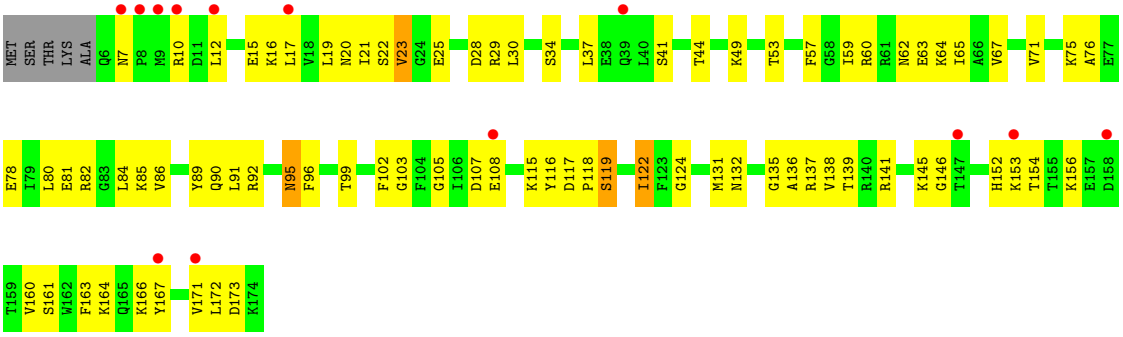




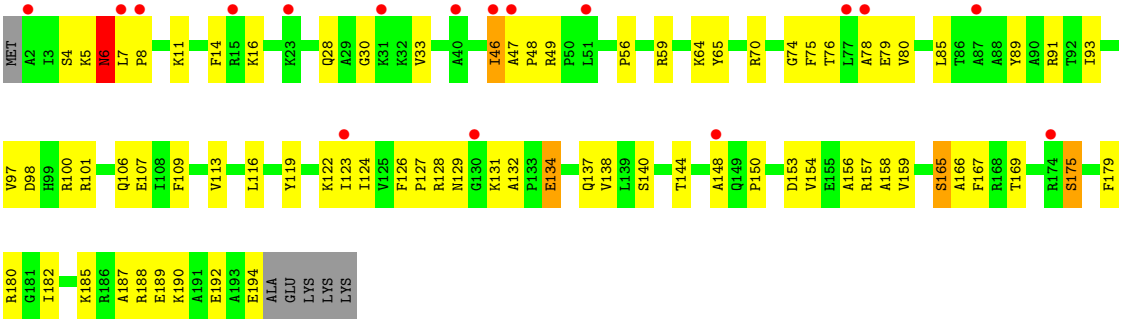
• Molecule 45: Large ribosomal subunit protein uL5B



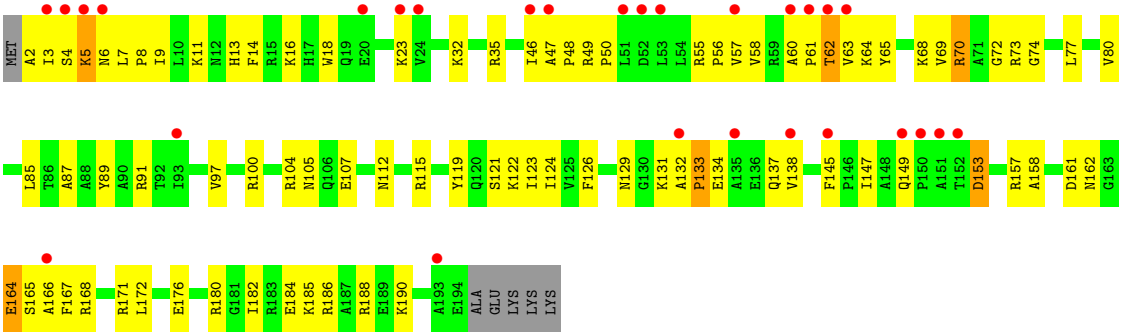
• Molecule 45: Large ribosomal subunit protein uL5B



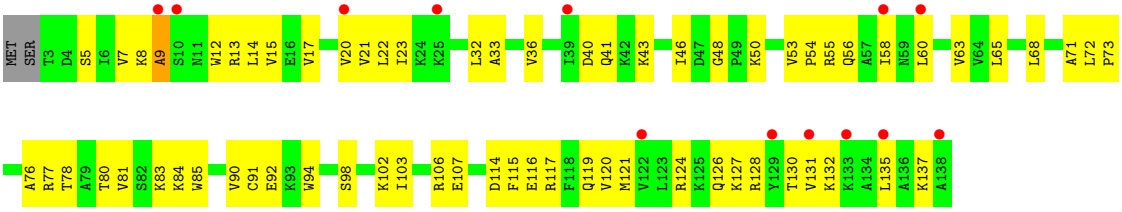
• Molecule 46: 60S ribosomal protein L13-A



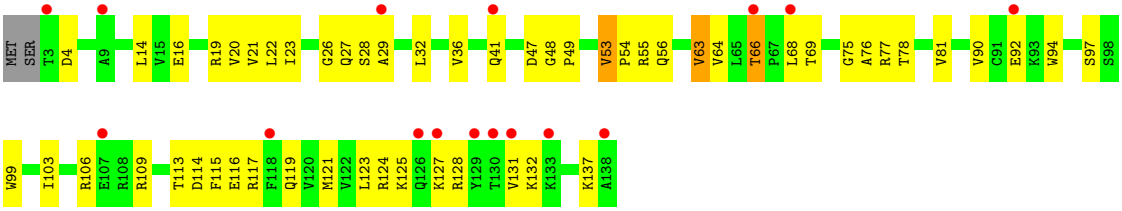
• Molecule 46: 60S ribosomal protein L13-A



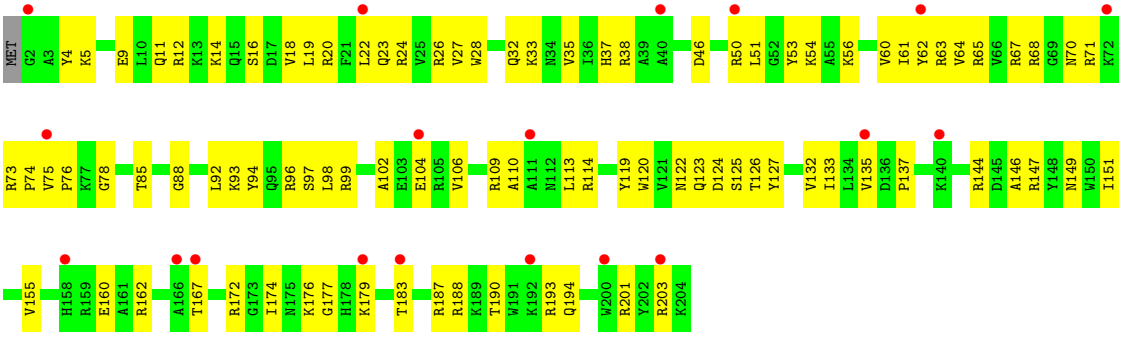
• Molecule 47: 60S ribosomal protein L14-A



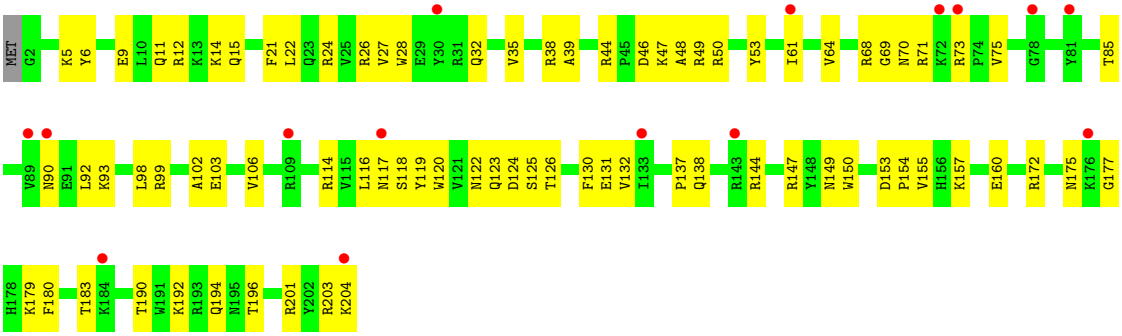
• Molecule 47: 60S ribosomal protein L14-A



• Molecule 48: 60S ribosomal protein L15-A

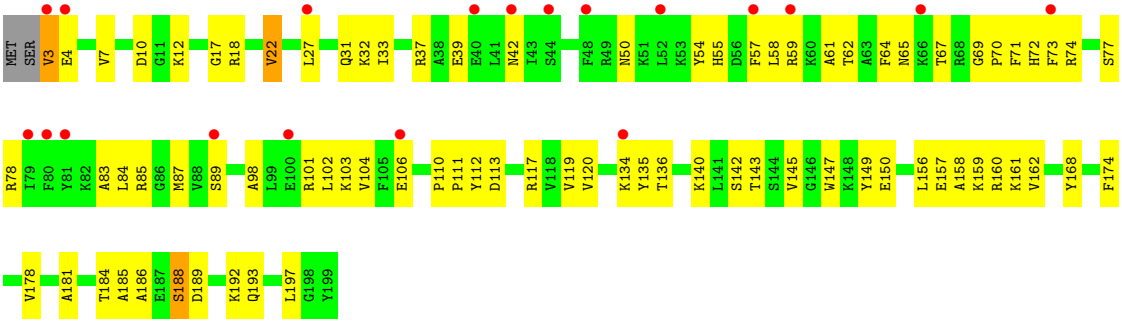


• Molecule 48: 60S ribosomal protein L15-A



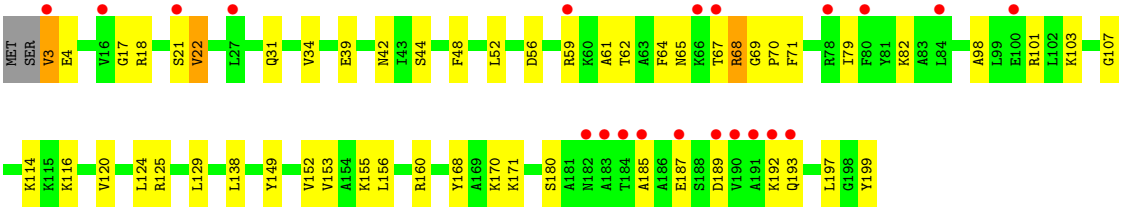
• Molecule 49: 60S ribosomal protein L16-A

Chain w:



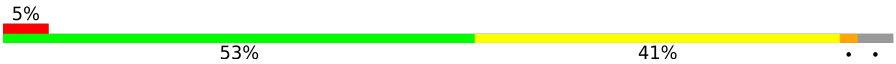
• Molecule 49: 60S ribosomal protein L16-A

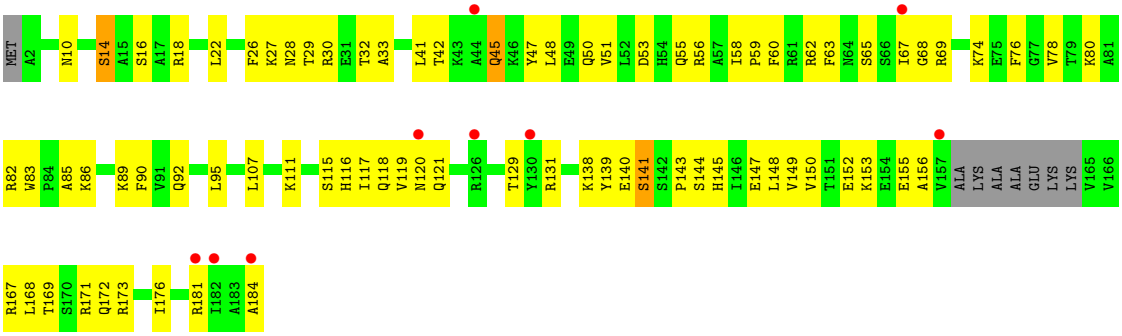
Chain CQ:



• Molecule 50: 60S ribosomal protein L17-A

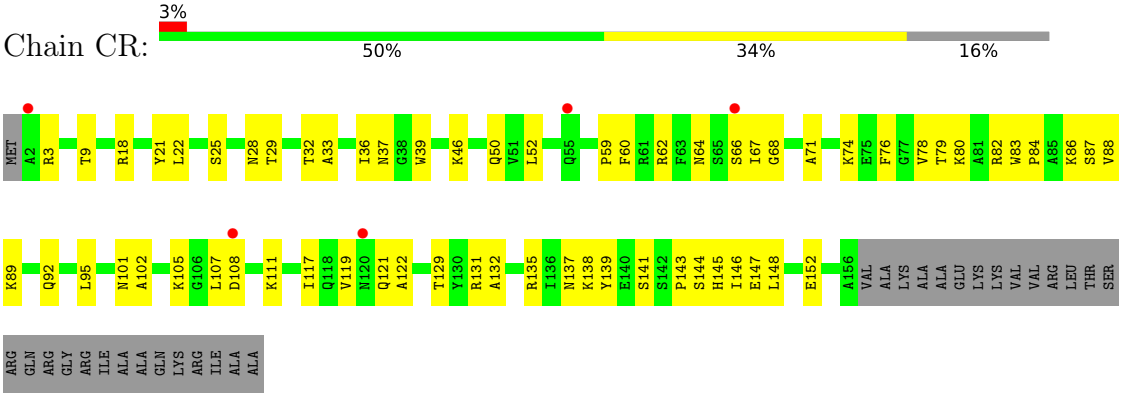
Chain x:





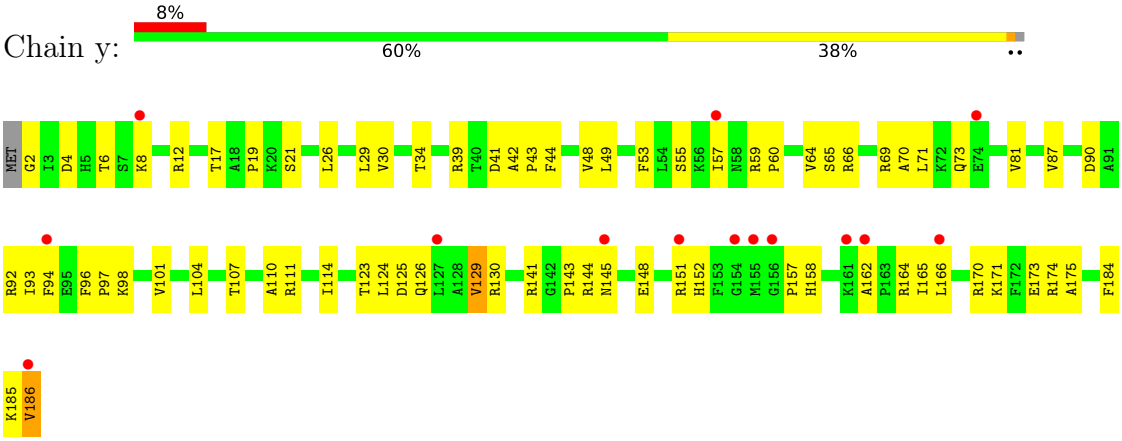
• Molecule 50: 60S ribosomal protein L17-A

Chain CR:



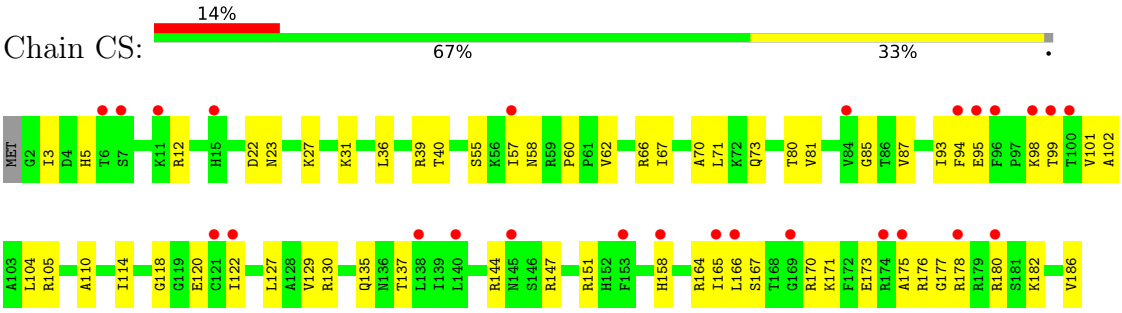
• Molecule 51: 60S ribosomal protein L18-A

Chain y:



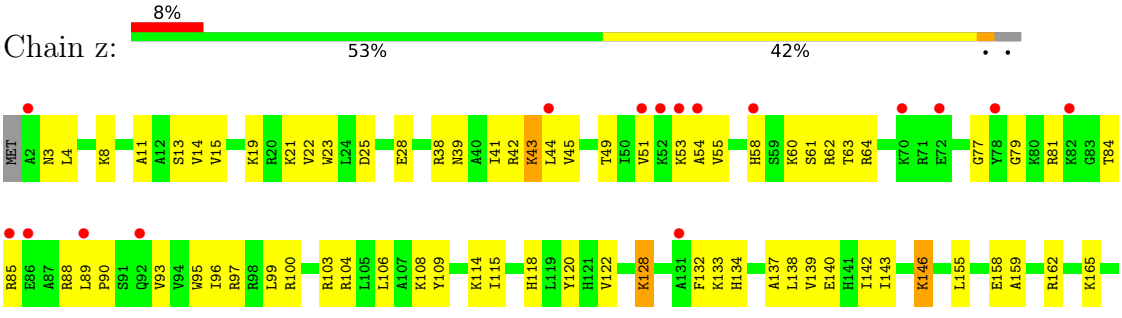
• Molecule 51: 60S ribosomal protein L18-A

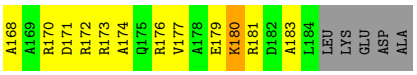
Chain CS:



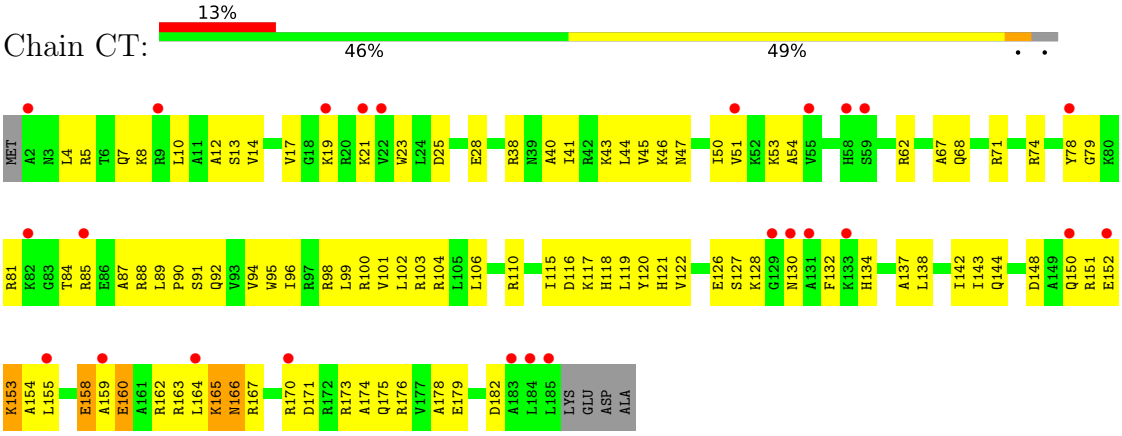
• Molecule 52: 60S ribosomal protein L19-A

Chain z:

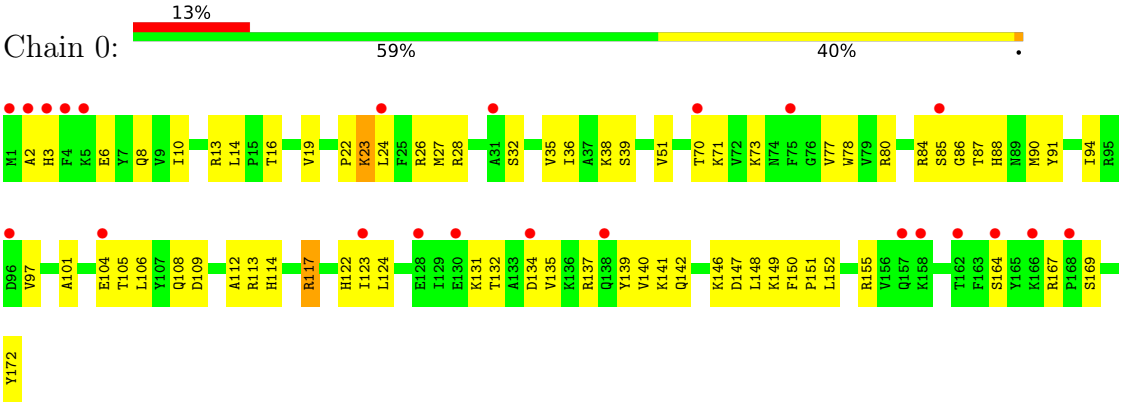




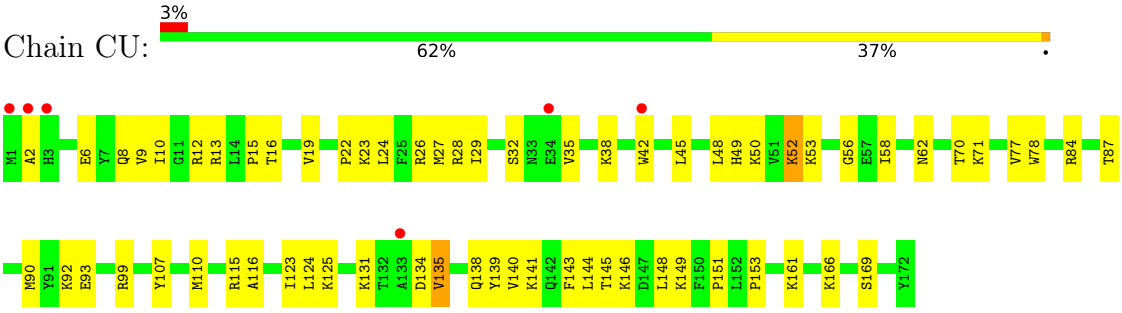
• Molecule 52: 60S ribosomal protein L19-A



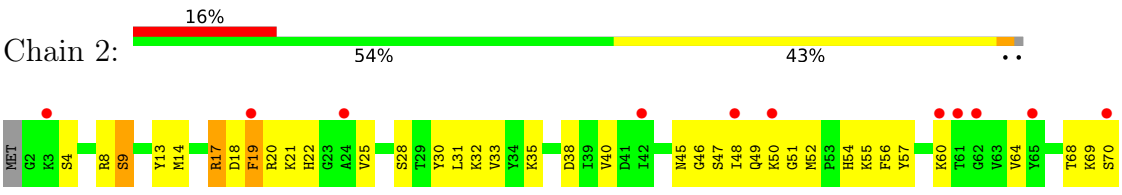
• Molecule 53: 60S ribosomal protein L20-A

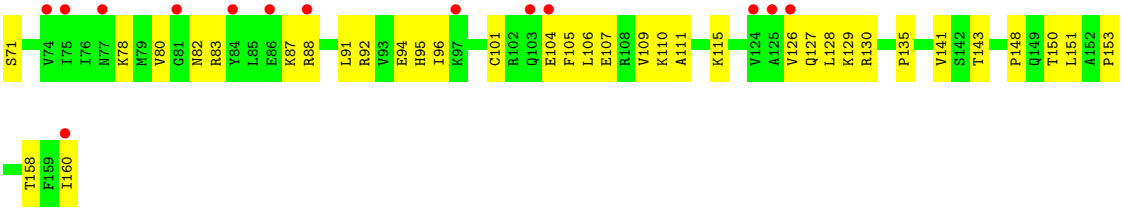


• Molecule 53: 60S ribosomal protein L20-A



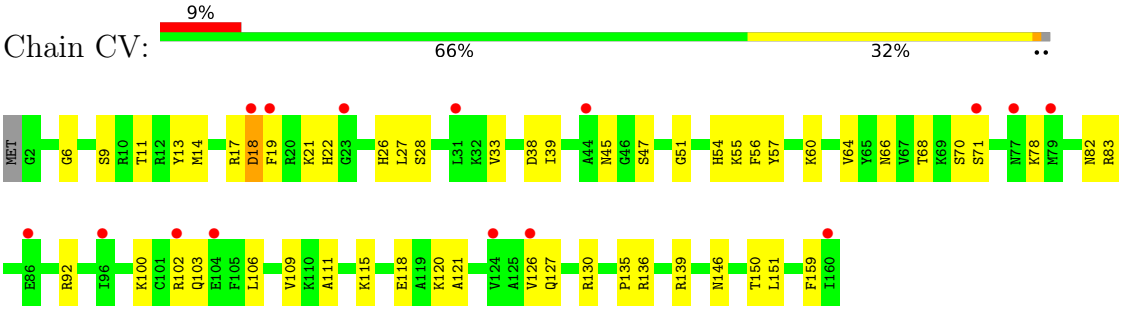
• Molecule 54: 60S ribosomal protein L21-A





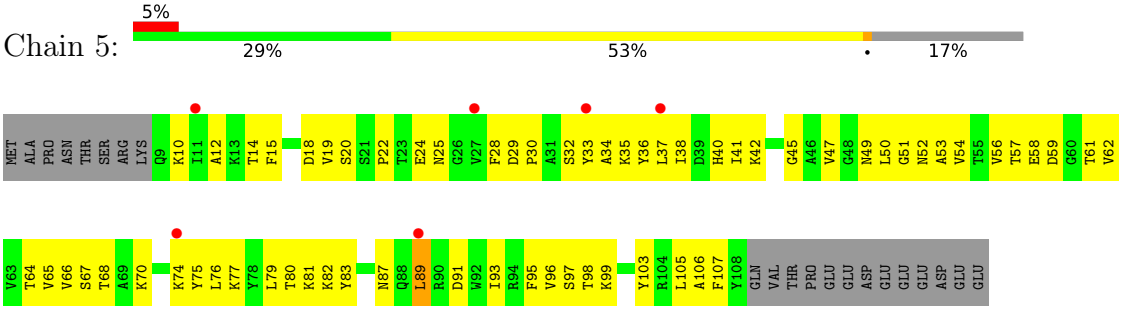
• Molecule 54: 60S ribosomal protein L21-A

Chain CV:



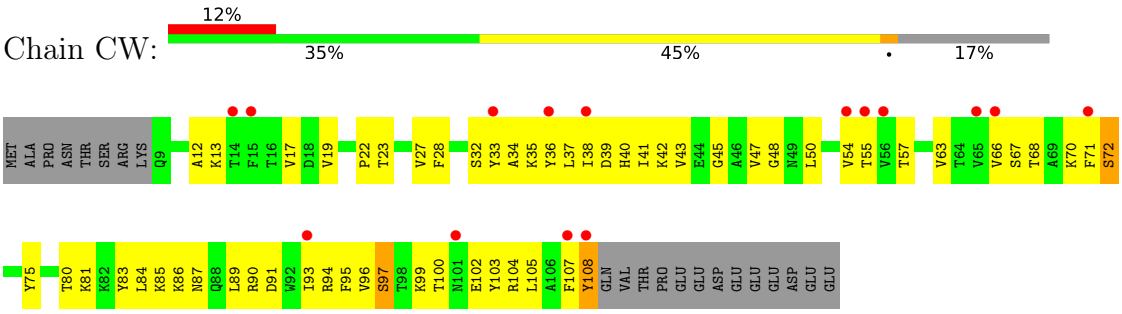
• Molecule 55: 60S ribosomal protein L22-A

Chain 5:



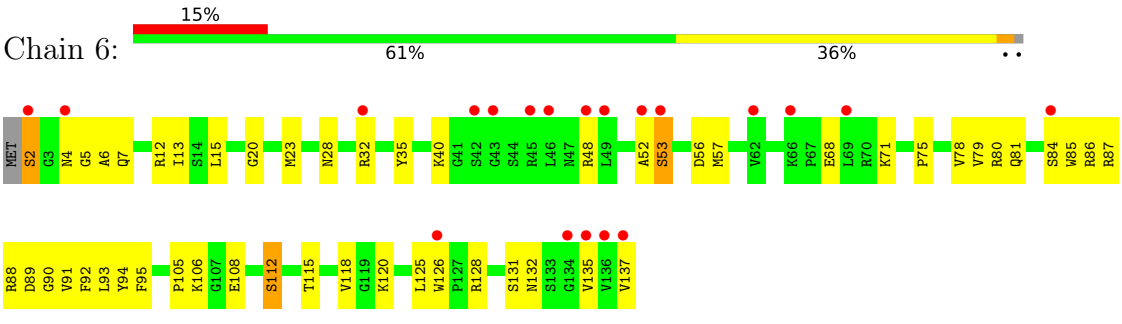
• Molecule 55: 60S ribosomal protein L22-A

Chain CW:



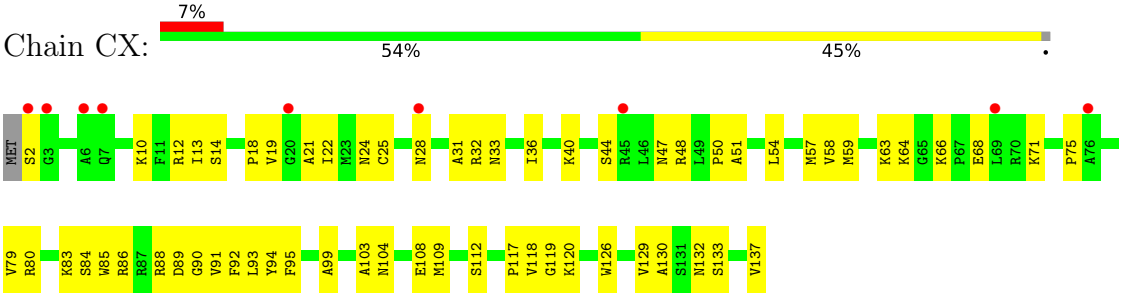
• Molecule 56: 60S ribosomal protein L23-A

Chain 6:



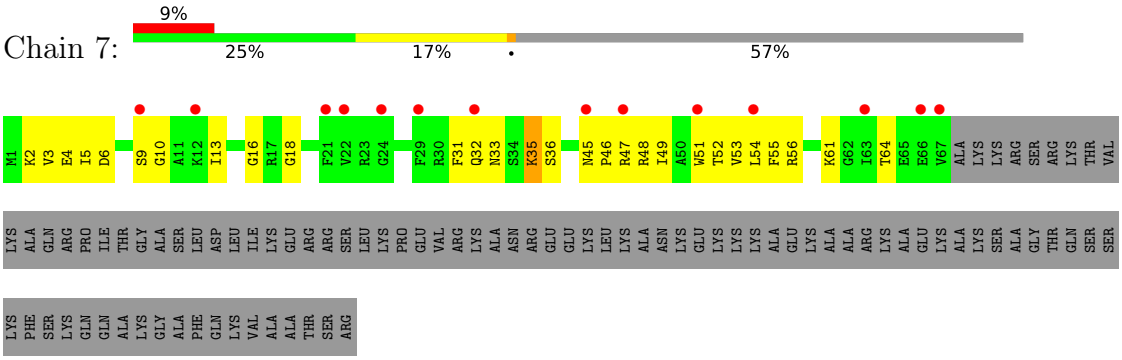
• Molecule 56: 60S ribosomal protein L23-A

Chain CX:



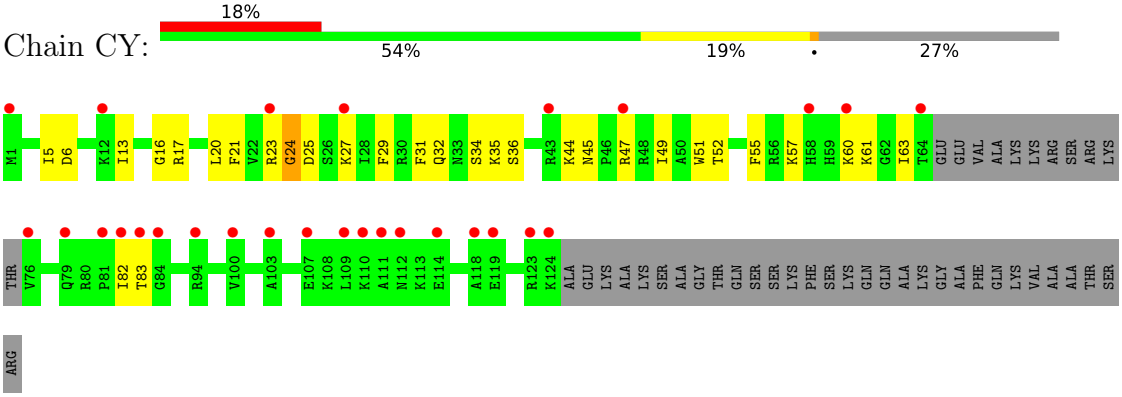
• Molecule 57: 60S ribosomal protein L24-A

Chain 7:



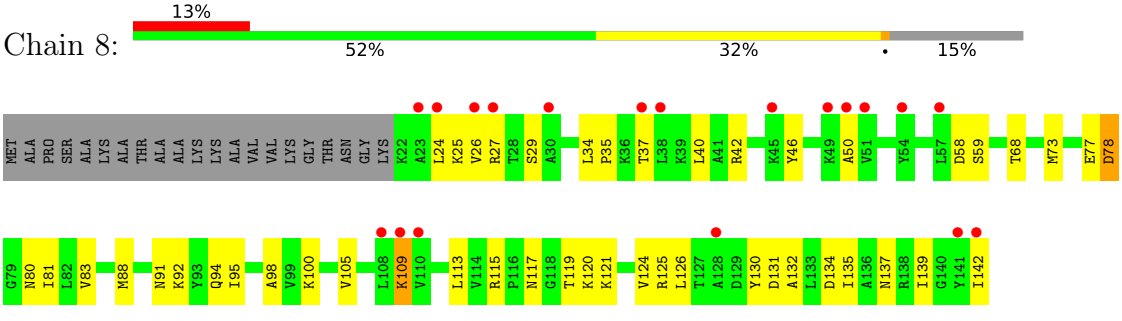
• Molecule 57: 60S ribosomal protein L24-A

Chain CY:



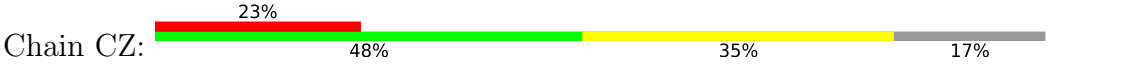
• Molecule 58: 60S ribosomal protein L25

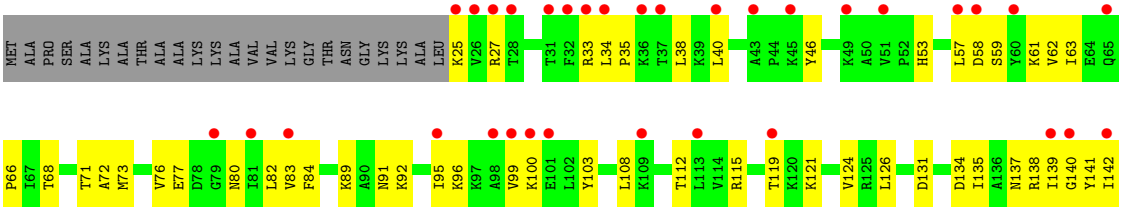
Chain 8:



• Molecule 58: 60S ribosomal protein L25

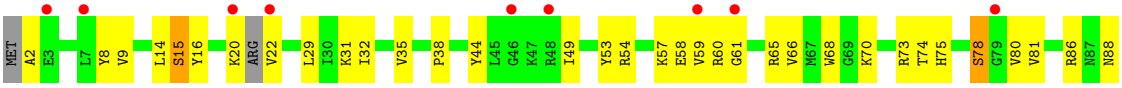
Chain CZ:





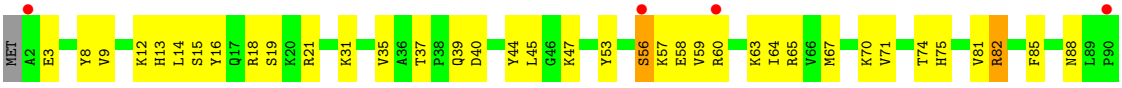
• Molecule 59: 60S ribosomal protein L33-A

Chain AG:



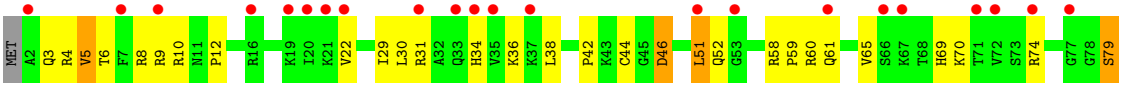
• Molecule 59: 60S ribosomal protein L33-A

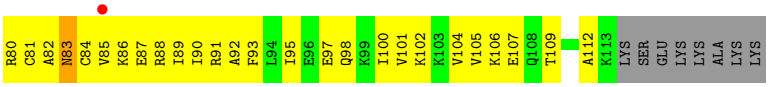
Chain DH:



• Molecule 60: 60S ribosomal protein L34-A

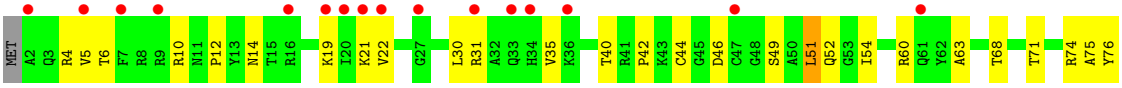
Chain AH:

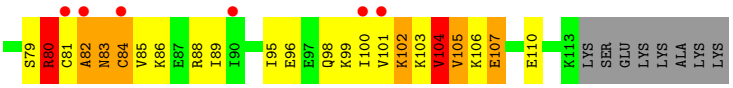




• Molecule 60: 60S ribosomal protein L34-A

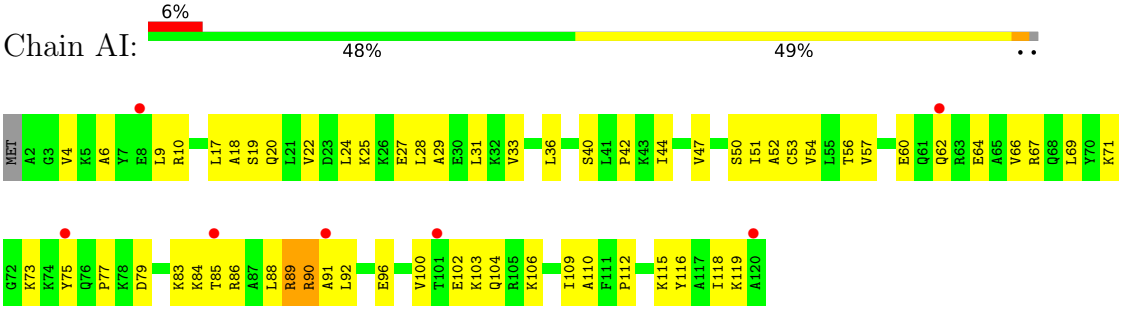
Chain DI:





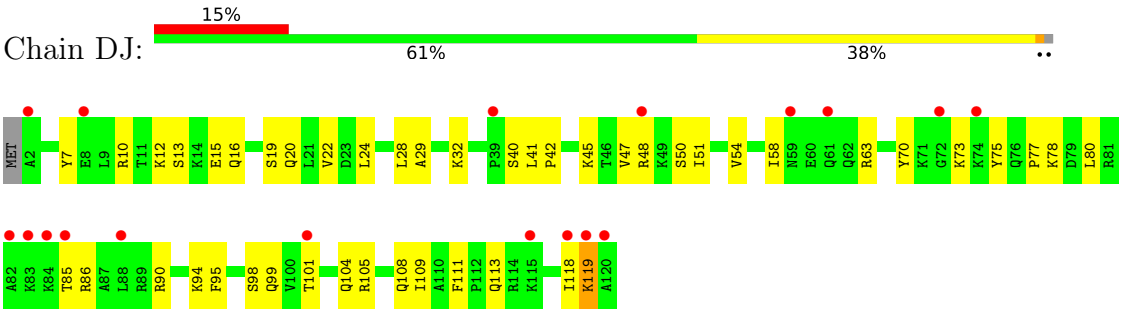
• Molecule 61: 60S ribosomal protein L35-A

Chain AI:



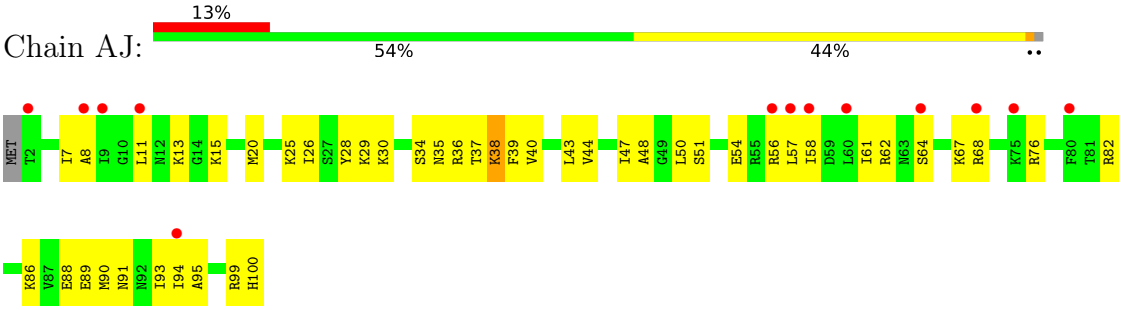
• Molecule 61: 60S ribosomal protein L35-A

Chain DJ:



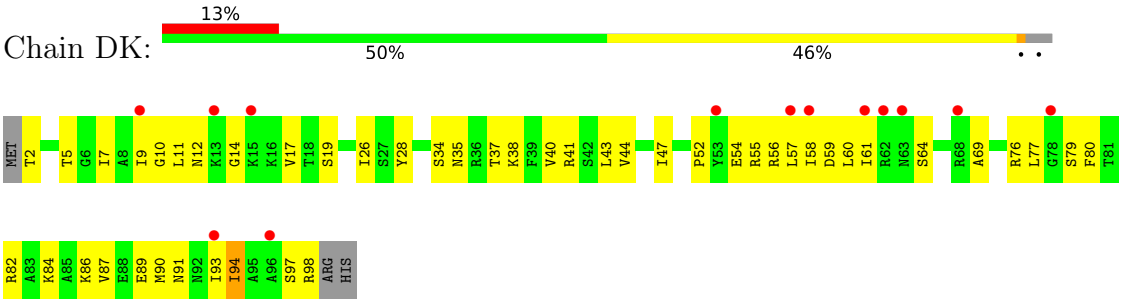
• Molecule 62: 60S ribosomal protein L36-A

Chain AJ:



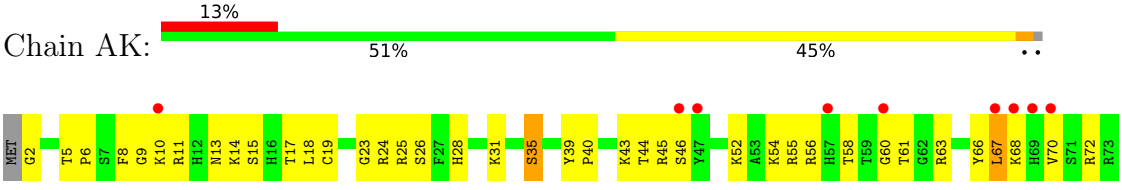
• Molecule 62: 60S ribosomal protein L36-A

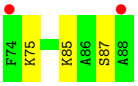
Chain DK:



• Molecule 63: 60S ribosomal protein L37-A

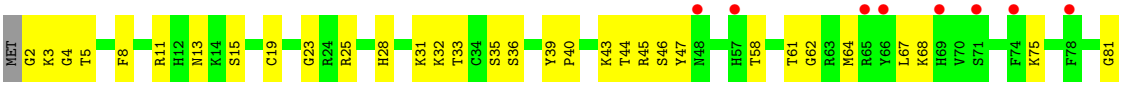
Chain AK:

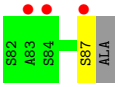




• Molecule 63: 60S ribosomal protein L37-A

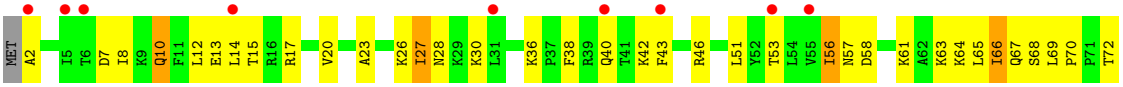
Chain DL:





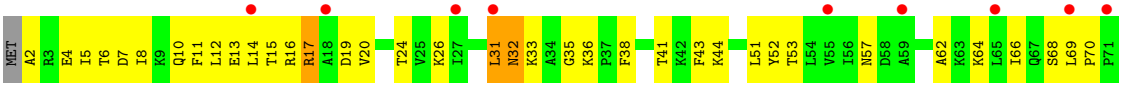
• Molecule 64: 60S ribosomal protein L38

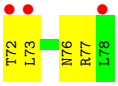
Chain AL:



• Molecule 64: 60S ribosomal protein L38

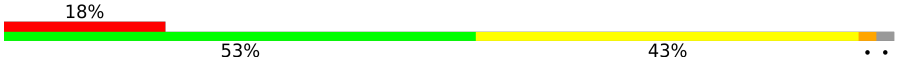
Chain DM:





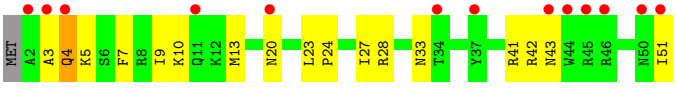
• Molecule 65: 60S ribosomal protein L39

Chain AM:



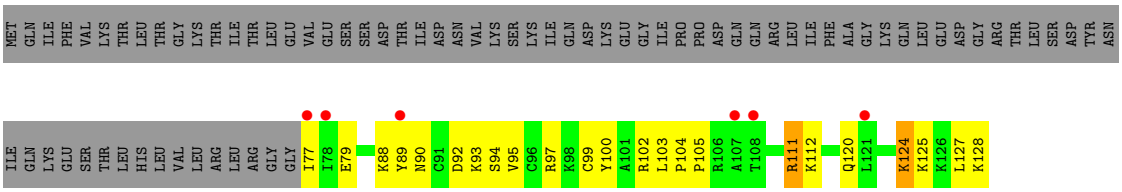
• Molecule 65: 60S ribosomal protein L39

Chain DN:



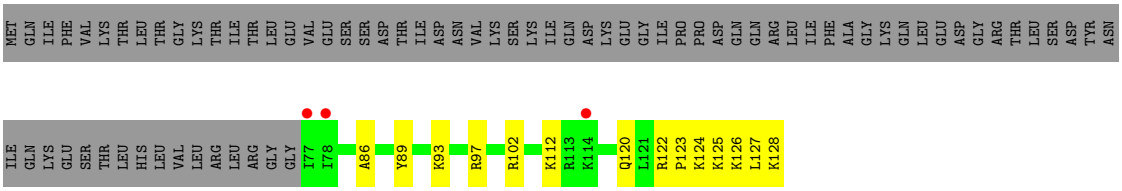
• Molecule 66: Ubiquitin-60S ribosomal protein L40

Chain AN:



• Molecule 66: Ubiquitin-60S ribosomal protein L40

Chain DO:



• Molecule 67: Large ribosomal subunit protein eL41B

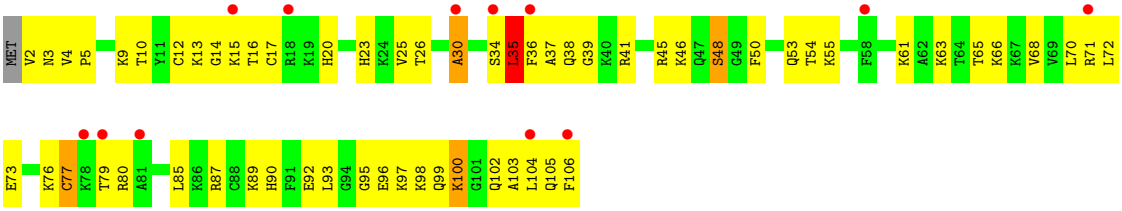
Chain AO:

• Molecule 67: Large ribosomal subunit protein eL41B

Chain DP:

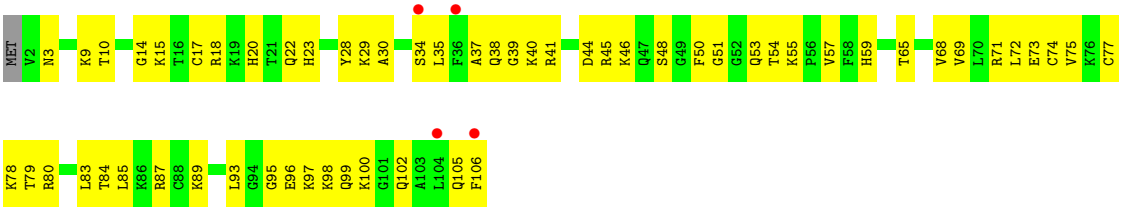
• Molecule 68: 60S ribosomal protein L42-A

Chain AP:



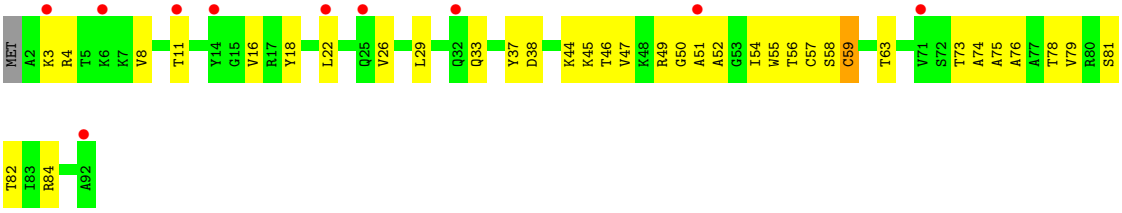
• Molecule 68: 60S ribosomal protein L42-A

Chain DQ:



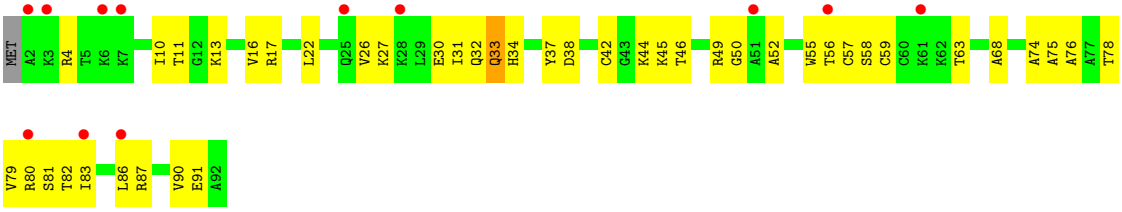
• Molecule 69: 60S ribosomal protein L43-A

Chain AQ:



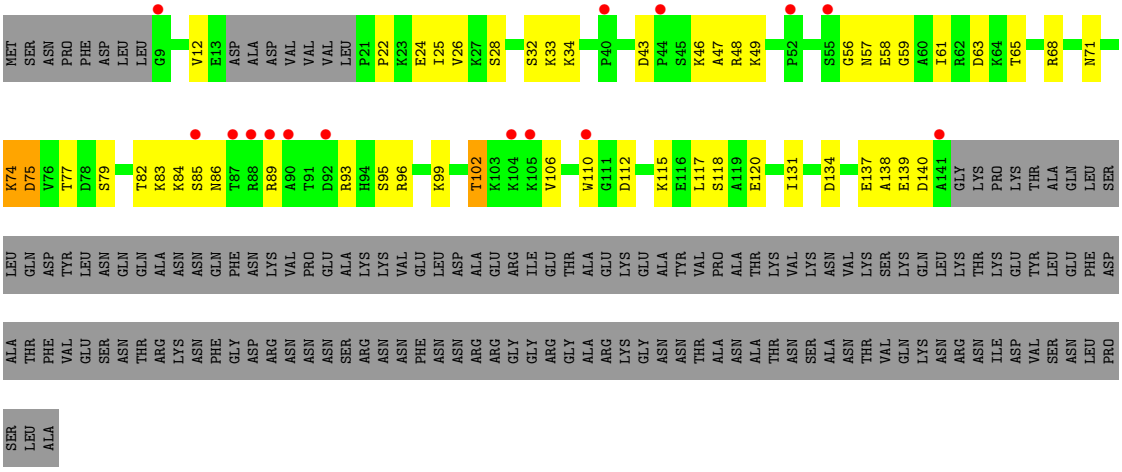
• Molecule 69: 60S ribosomal protein L43-A

Chain DR:



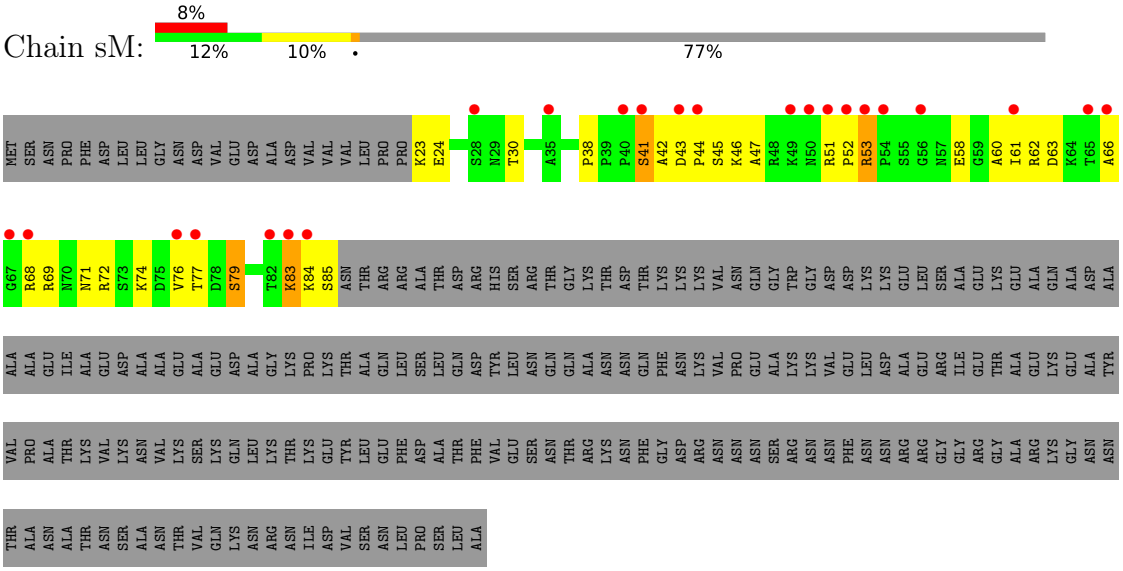
• Molecule 70: Suppressor protein STM1

Chain i:



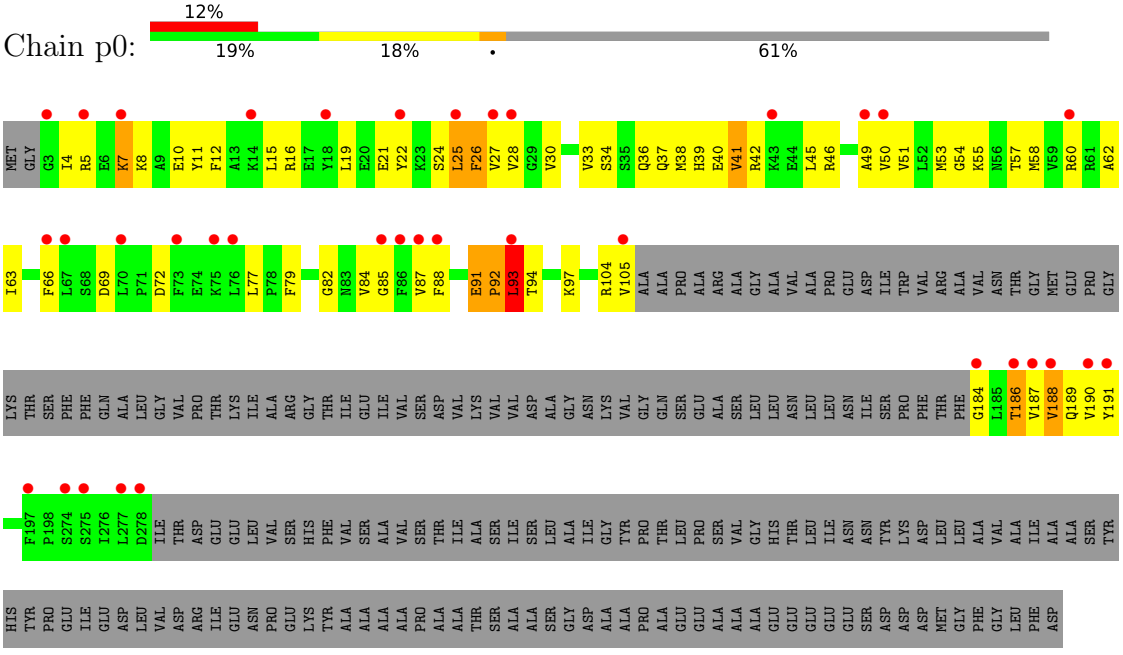
• Molecule 70: Suppressor protein STM1

Chain sM:



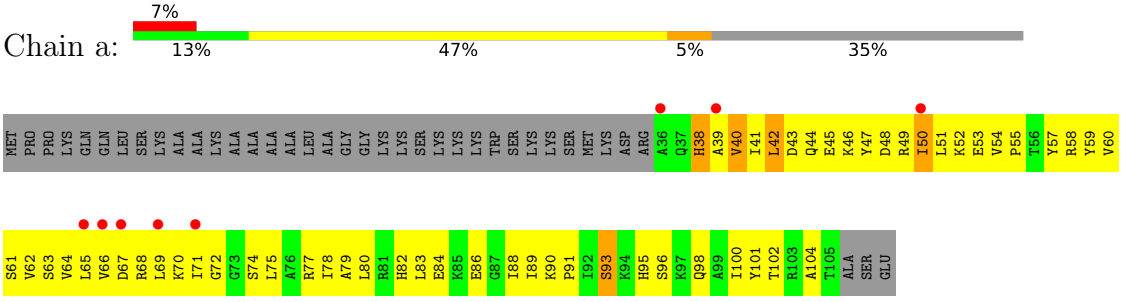
• Molecule 71: 60S acidic ribosomal protein P0

Chain p0:



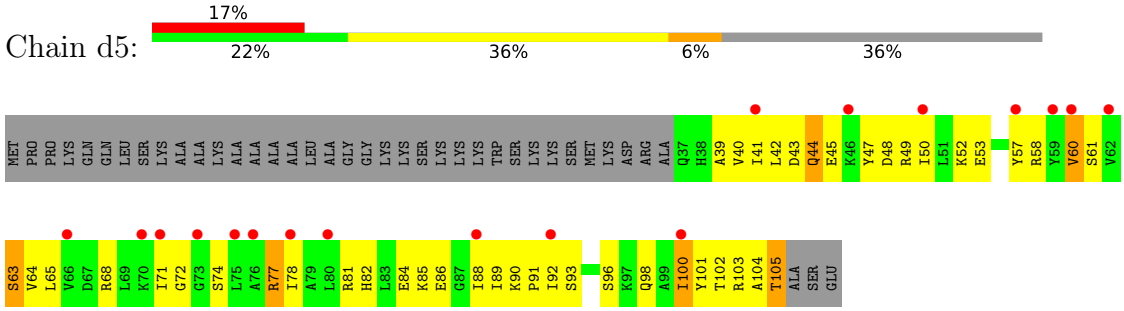
• Molecule 72: 40S ribosomal protein S25-A

Chain a:



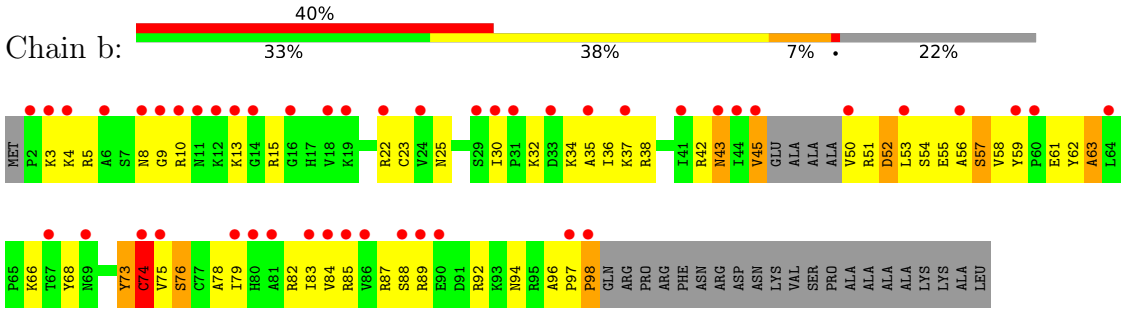
• Molecule 72: 40S ribosomal protein S25-A

Chain d5:



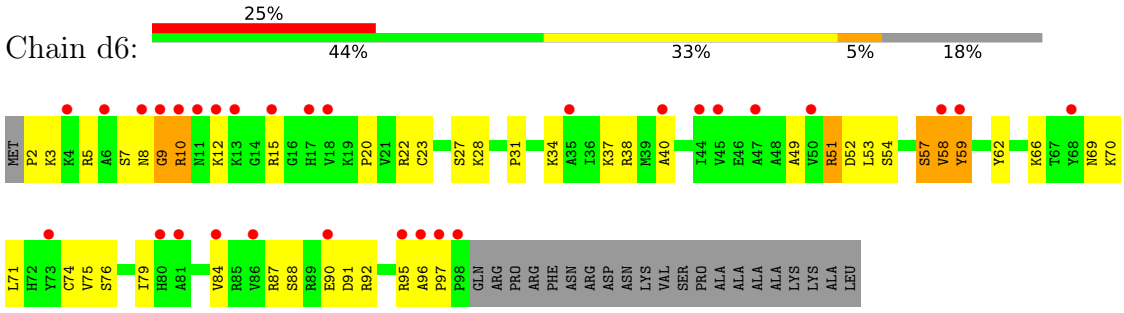
• Molecule 73: Small ribosomal subunit protein eS26B

Chain b:



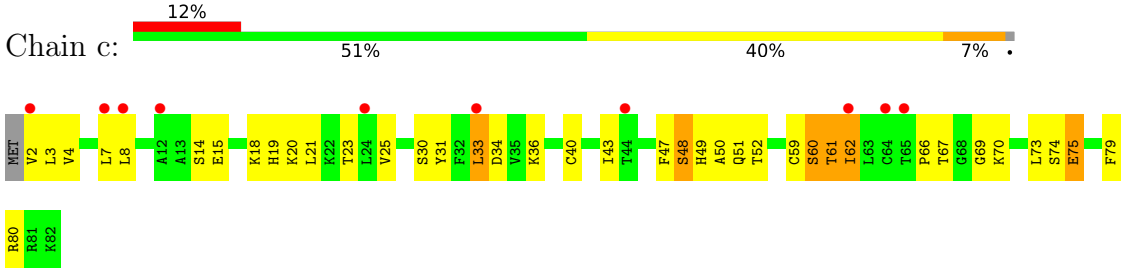
• Molecule 73: Small ribosomal subunit protein eS26B

Chain d6:



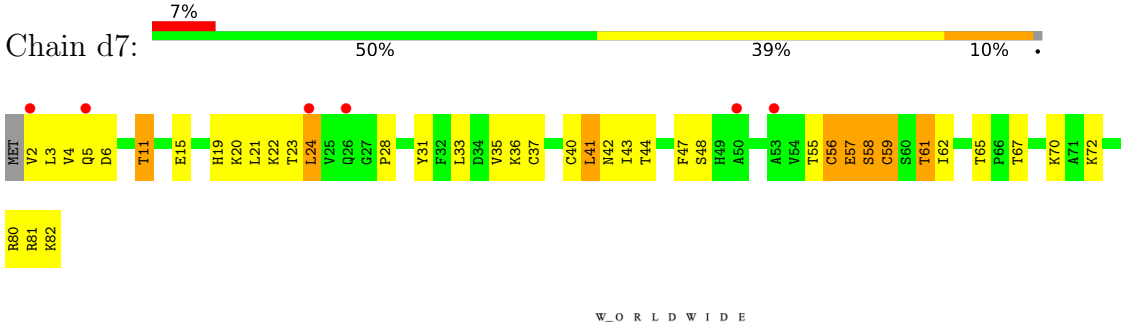
• Molecule 74: 40S ribosomal protein S27-A

Chain c:



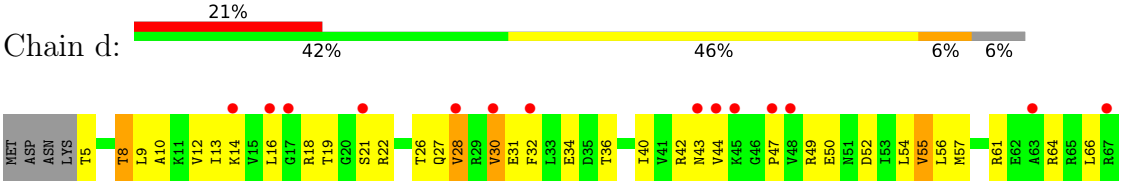
• Molecule 74: 40S ribosomal protein S27-A

Chain d7:



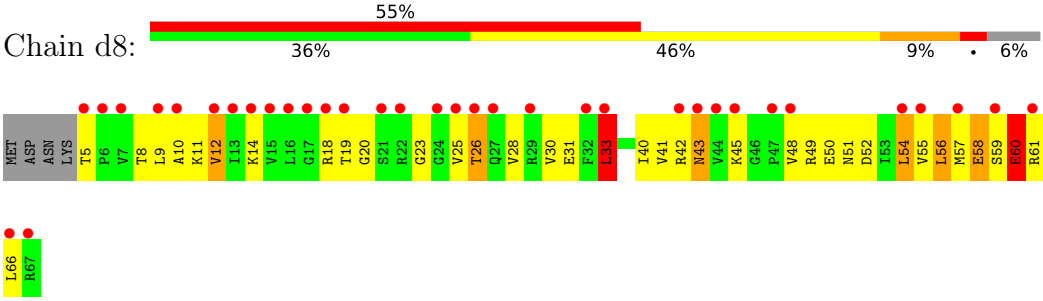
• Molecule 75: 40S ribosomal protein S28-A

Chain d:



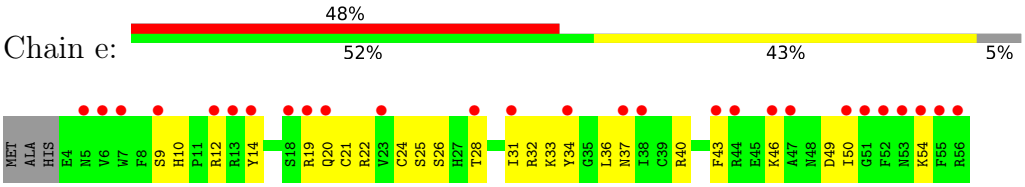
• Molecule 75: 40S ribosomal protein S28-A

Chain d8:



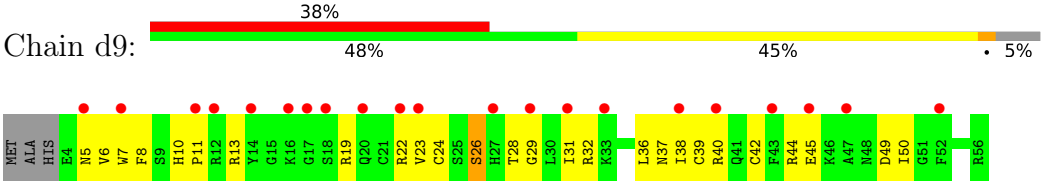
• Molecule 76: Small ribosomal subunit protein uS14A

Chain e:



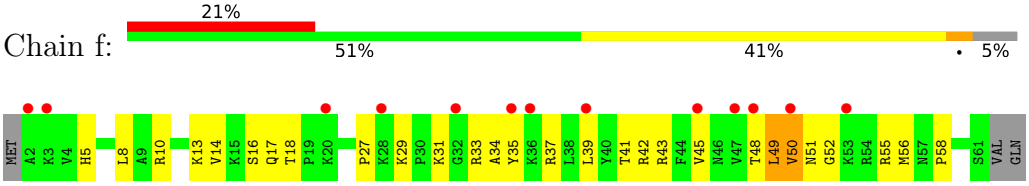
• Molecule 76: Small ribosomal subunit protein uS14A

Chain d9:



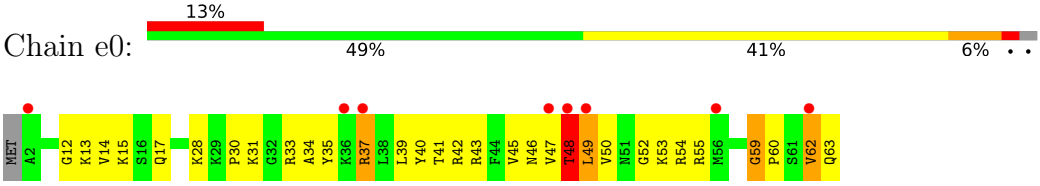
• Molecule 77: 40S ribosomal protein S30-A

Chain f:



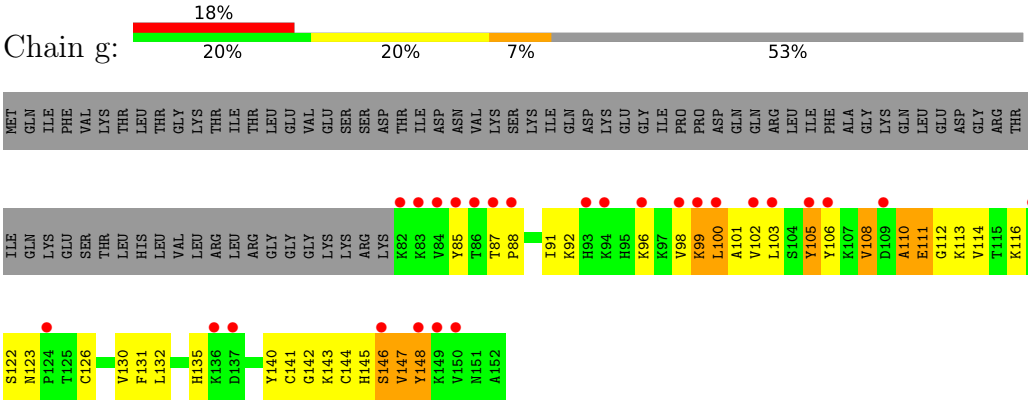
• Molecule 77: 40S ribosomal protein S30-A

Chain e0:



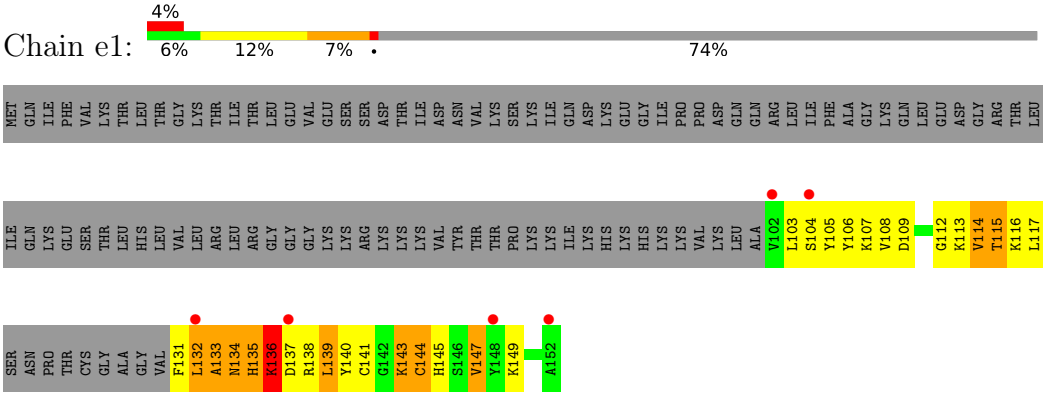
• Molecule 78: Ubiquitin

Chain g:



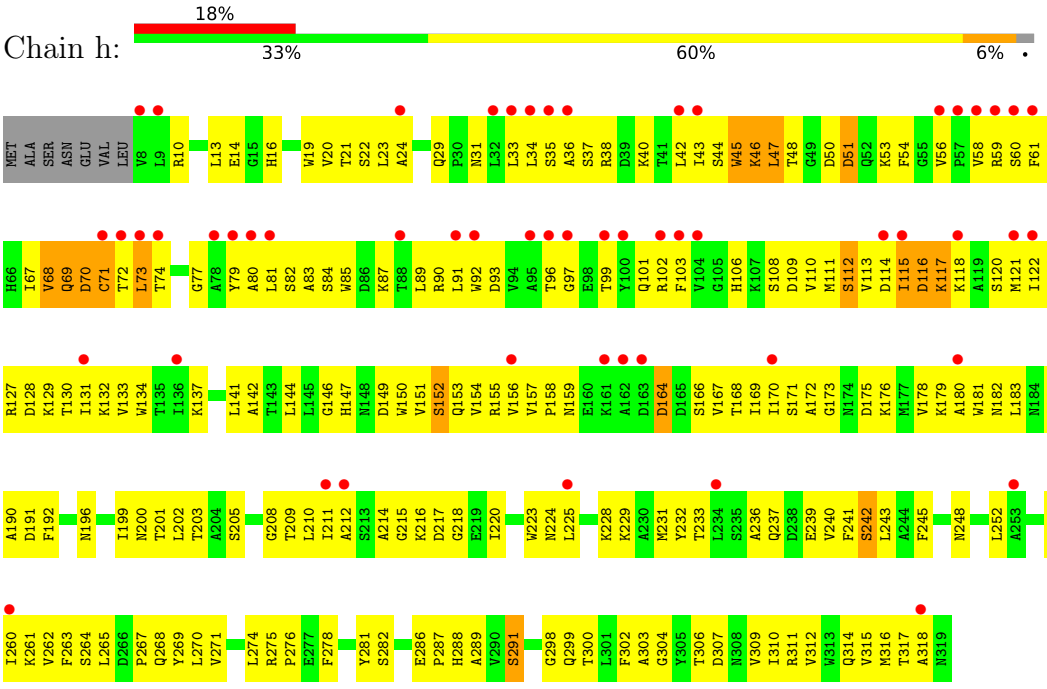
• Molecule 78: Ubiquitin

Chain e1:



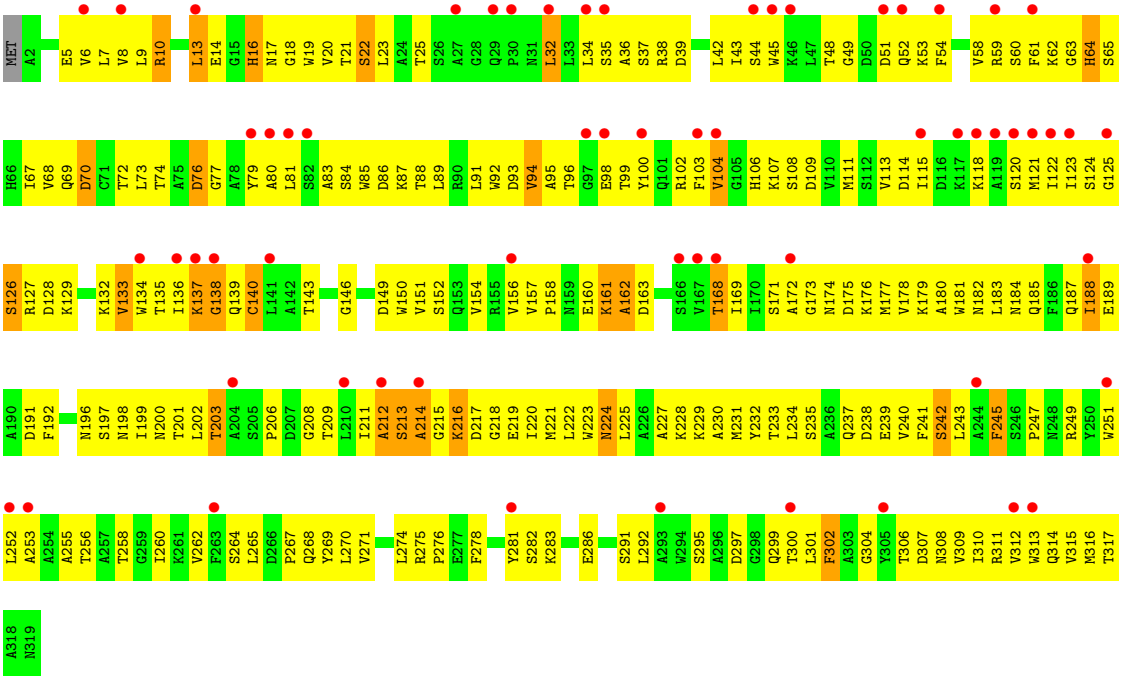
• Molecule 79: Guanine nucleotide-binding protein subunit beta-like protein

Chain h:



• Molecule 79: Guanine nucleotide-binding protein subunit beta-like protein

Chain Rb:


MET A2 E5 V6 L7 V8 L9 R10 L13 E14 G15 H16 N17 G18 W19 V20 T21 S22 L23 A24 T25 S26 A27 G28 Q29 P30 N31 L32 L33 L34 S35 A36 S37 R38 D39 L42 I43 S44 W45 K46 L47 T48 G49 D50 D51 Q52 K53 F54 V58 R59 S60 F61 K62 G63 H64 S65
H66 I67 V68 Q69 D70 C71 T72 L73 T74 A75 D76 G77 A78 Y79 A80 L81 S82 A83 S84 W85 D86 K87 T88 L89 R90 L91 W92 D93 V94 A95 T96 G97 E98 T99 Y100 Q101 R102 F103 V104 G105 H106 K107 S108 D109 V110 M111 S112 V113 D114 I115 D116 K117 K118 A119 S120 M121 I122 I123 S124 G125
S126 R127 D128 K129 K132 V133 W134 T135 I136 K137 G138 Q139 C140 L141 A142 T143 G146 D149 W150 V151 S152 Q153 V154 R155 V156 V157 P158 N159 E160 K161 A162 D163 S166 V167 T168 I169 I170 S171 A172 G173 N174 D175 K176 M177 V178 K179 A180 W181 N182 L183 N184 Q185 F186 Q187 I188 E189
A190 D191 F192 N196 S197 N198 I199 N200 T201 L202 T203 A204 S205 P206 D207 G208 T209 L210 I211 A212 S213 A214 G215 K216 D217 G218 E219 I220 M221 L222 W223 N224 L225 A226 A227 K228 K229 A230 M231 Y232 T233 L234 S235 A236 Q237 D238 E239 V240 F241 S242 L243 A244 F245 S246 P247 N248 R249 Y250 W251
L252 A253 A254 A255 T256 A257 T258 G259 I260 K261 V262 F263 S264 L265 D266 P267 Q268 Y269 L270 V271 L274 R275 P276 E277 F278 Y281 S282 K283 E286 S291 L292 A293 W294 S295 A296 D297 G298 Q299 T300 L301 F302 A303 G304 Y305 T306 D307 N308 V309 I310 R311 V312 W313 Q314 V315 M316 T317
A318 N319

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	303.68Å 287.58Å 435.09Å 90.00° 98.93° 90.00°	Depositor
Resolution (Å)	207.60 – 2.90 207.60 – 2.90	Depositor EDS
% Data completeness (in resolution range)	99.5 (207.60-2.90) 88.5 (207.60-2.90)	Depositor EDS
R_{merge}	0.09	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.50 (at 2.91Å)	Xtriage
Refinement program	PHENIX 1.0	Depositor
R, R_{free}	0.220 , 0.223 0.232 , 0.254	Depositor DCC
R_{free} test set	1593386 reflections (1.55%)	wwPDB-VP
Wilson B-factor (Å^2)	61.4	Xtriage
Anisotropy	0.310	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.28 , 58.1	EDS
L-test for twinning[2]	$< \|L\| > = 0.47$, $< L^2 > = 0.30$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	404943	wwPDB-VP
Average B, all atoms (Å^2)	91.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.39% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ 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: VDU, K, SPD, ZN, 5XU, OHX, MG

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	A	0.17	0/41356	0.40	0/64437
1	sR	0.16	0/42490	0.38	3/66207 (0.0%)
2	B	0.48	0/1617	1.16	9/2215 (0.4%)
2	s0	0.40	0/1623	1.00	10/2222 (0.5%)
3	C	0.48	0/1735	1.47	31/2335 (1.3%)
3	s1	0.24	0/1748	0.75	0/2352
4	D	0.34	0/1665	0.86	2/2263 (0.1%)
4	s2	0.28	0/1665	0.80	2/2263 (0.1%)
5	E	0.32	0/1759	0.89	0/2368
5	s3	0.34	0/1759	1.02	7/2368 (0.3%)
6	F	0.44	1/2109 (0.0%)	1.03	14/2839 (0.5%)
6	s4	0.27	0/2109	0.81	2/2839 (0.1%)
7	G	0.42	0/1602	1.14	8/2165 (0.4%)
7	s5	0.41	0/1595	0.94	2/2155 (0.1%)
8	H	0.31	0/1815	0.86	5/2428 (0.2%)
8	s6	0.29	0/1779	0.72	0/2379
9	I	0.43	0/1506	1.14	11/2028 (0.5%)
9	s7	0.38	0/1516	1.11	14/2043 (0.7%)
10	J	0.29	0/1514	0.90	4/2021 (0.2%)
10	s8	0.30	0/1514	0.76	1/2021 (0.0%)
11	K	0.43	0/1481	1.01	5/1984 (0.3%)
11	s9	0.29	0/1519	0.87	3/2035 (0.1%)
12	L	0.44	0/789	1.05	8/1067 (0.7%)
12	c0	0.35	0/718	1.03	4/968 (0.4%)
13	M	0.28	0/1180	0.76	3/1591 (0.2%)
13	c1	0.28	0/1194	0.78	4/1610 (0.2%)
14	O	0.29	0/1215	0.72	0/1638
14	c3	0.25	0/1215	0.85	6/1638 (0.4%)
15	P	0.45	0/901	1.15	8/1217 (0.7%)
15	c4	0.26	0/960	0.98	2/1290 (0.2%)
16	Q	0.41	0/948	1.38	12/1273 (0.9%)
16	c5	0.39	1/1012 (0.1%)	1.16	9/1360 (0.7%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	R	0.39	0/1125	1.22	10/1510 (0.7%)
17	c6	0.44	2/1131 (0.2%)	1.02	8/1518 (0.5%)
18	S	0.41	0/910	1.13	11/1219 (0.9%)
18	c7	0.29	0/914	0.92	2/1224 (0.2%)
19	T	0.39	0/1211	1.03	2/1628 (0.1%)
19	c8	0.32	0/1211	0.91	3/1628 (0.2%)
20	U	0.42	0/1130	1.30	11/1517 (0.7%)
20	c9	0.26	0/1130	0.74	1/1517 (0.1%)
21	V	0.44	0/865	1.24	10/1169 (0.9%)
21	d0	0.32	0/810	1.31	14/1095 (1.3%)
22	W	0.37	0/693	0.99	1/935 (0.1%)
22	d1	0.27	0/693	0.93	6/935 (0.6%)
23	X	0.35	0/1038	0.96	0/1395
23	d2	0.24	0/1038	0.78	3/1395 (0.2%)
24	Y	0.28	0/1139	0.94	6/1518 (0.4%)
24	d3	0.22	0/1139	0.77	0/1518
25	Z	0.30	0/1087	0.86	1/1449 (0.1%)
25	d4	0.32	0/1087	1.07	8/1449 (0.6%)
26	AA	0.24	0/1118	0.87	5/1497 (0.3%)
26	DB	0.51	2/1118 (0.2%)	1.02	7/1497 (0.5%)
27	9	0.22	0/1004	0.65	0/1341
27	DA	0.18	0/987	0.62	0/1318
28	AB	0.29	0/1204	0.88	5/1612 (0.3%)
28	DC	0.31	0/1204	0.97	9/1612 (0.6%)
29	AC	0.18	0/473	0.79	2/629 (0.3%)
29	DD	0.22	0/473	0.86	1/629 (0.2%)
30	AD	0.26	0/751	0.67	0/1008
30	DE	0.23	0/751	0.67	0/1008
31	CD	0.22	0/1948	0.71	2/2617 (0.1%)
31	j	0.23	0/1948	0.72	1/2617 (0.0%)
32	AE	0.21	0/890	0.65	0/1196
32	DF	0.21	0/890	0.79	5/1196 (0.4%)
33	CE	0.20	0/3146	0.65	3/4228 (0.1%)
33	k	0.24	0/3146	0.70	5/4228 (0.1%)
34	AF	0.15	0/1041	0.62	2/1394 (0.1%)
34	DG	0.17	0/1041	0.61	2/1394 (0.1%)
35	1	0.15	0/75038	0.37	1/116986 (0.0%)
35	AR	0.15	0/75347	0.37	0/117472
36	3	0.14	0/2883	0.32	0/4491
36	AS	0.13	0/2883	0.33	0/4491
37	4	0.14	0/3746	0.37	0/5832
37	AT	0.13	0/3746	0.34	0/5832
38	CF	0.25	0/2800	0.74	5/3790 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	l	0.23	0/2800	0.82	7/3790 (0.2%)
39	CG	0.28	0/2425	0.84	5/3271 (0.2%)
39	m	0.30	0/2425	0.85	2/3271 (0.1%)
40	CH	0.20	0/1260	0.65	0/1694
40	n	0.21	0/1260	0.62	0/1694
41	CI	0.22	0/1821	0.76	5/2451 (0.2%)
41	o	0.24	0/1821	0.82	3/2451 (0.1%)
42	CJ	0.35	0/1836	0.88	4/2481 (0.2%)
42	p	0.35	1/1836 (0.1%)	0.83	7/2481 (0.3%)
43	CK	0.22	0/1539	0.65	0/2073
43	q	0.28	0/1539	0.78	1/2073 (0.0%)
44	CL	0.21	0/1741	0.68	2/2335 (0.1%)
44	r	0.27	0/1741	0.71	0/2335
45	CM	0.27	0/1374	0.77	0/1842
45	s	0.36	0/1374	1.03	7/1842 (0.4%)
46	CN	0.29	0/1568	0.90	6/2106 (0.3%)
46	t	0.32	0/1568	0.84	3/2106 (0.1%)
47	CO	0.20	0/1068	0.64	0/1438
47	u	0.25	0/1068	0.62	0/1438
48	CP	0.19	0/1757	0.54	0/2354
48	v	0.22	0/1757	0.61	0/2354
49	CQ	0.18	0/1585	0.59	0/2128
49	w	0.22	0/1585	0.62	0/2128
50	CR	0.18	0/1250	0.66	0/1683
50	x	0.21	0/1407	0.66	0/1892
51	CS	0.22	0/1465	0.67	0/1965
51	y	0.22	0/1465	0.65	2/1965 (0.1%)
52	CT	0.27	0/1507	0.87	11/2009 (0.5%)
52	z	0.33	0/1499	0.78	3/1998 (0.2%)
53	0	0.24	0/1481	0.72	1/1990 (0.1%)
53	CU	0.17	0/1481	0.62	0/1990
54	2	0.24	0/1300	0.72	1/1743 (0.1%)
54	CV	0.22	0/1300	0.72	0/1743
55	5	0.36	0/812	0.87	0/1099
55	CW	0.32	0/812	0.83	0/1099
56	6	0.23	0/1018	0.64	0/1369
56	CX	0.21	0/1018	0.58	0/1369
57	7	0.27	0/555	0.68	0/738
57	CY	0.21	0/792	0.67	2/1066 (0.2%)
58	8	0.23	0/979	0.72	0/1321
58	CZ	0.23	0/961	0.66	1/1296 (0.1%)
59	AG	0.24	0/856	0.77	2/1151 (0.2%)
59	DH	0.22	0/868	0.75	0/1168

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
60	AH	0.32	0/890	0.82	3/1189 (0.3%)
60	DI	0.44	0/890	0.97	4/1189 (0.3%)
61	AI	0.26	0/978	0.88	5/1301 (0.4%)
61	DJ	0.25	0/978	0.64	0/1301
62	AJ	0.25	0/778	0.71	0/1034
62	DK	0.26	0/756	0.71	0/1005
63	AK	0.20	0/696	0.67	1/923 (0.1%)
63	DL	0.19	0/691	0.60	0/916
64	AL	0.29	0/618	0.78	0/826
64	DM	0.28	0/618	1.06	6/826 (0.7%)
65	AM	0.23	0/443	0.72	0/588
65	DN	0.17	0/443	0.63	1/588 (0.2%)
66	AN	0.27	0/423	0.67	0/562
66	DO	0.24	0/423	0.63	0/562
67	AO	0.17	0/234	0.74	0/300
67	DP	0.15	0/234	0.58	0/300
68	AP	0.49	0/860	0.89	2/1136 (0.2%)
68	DQ	0.45	0/860	0.88	0/1136
69	AQ	0.22	0/701	0.80	0/934
69	DR	0.22	0/701	0.77	0/934
70	i	0.30	0/948	0.79	0/1270
70	sM	0.33	0/480	0.94	2/642 (0.3%)
71	p0	0.63	4/992 (0.4%)	0.90	2/1334 (0.1%)
72	a	0.39	0/571	1.18	2/768 (0.3%)
72	d5	0.40	0/566	1.02	3/761 (0.4%)
73	b	0.43	0/757	1.41	9/1011 (0.9%)
73	d6	0.29	0/782	1.00	6/1047 (0.6%)
74	c	0.34	0/620	1.04	4/838 (0.5%)
74	d7	0.77	3/620 (0.5%)	1.43	9/838 (1.1%)
75	d	0.30	0/499	0.81	0/670
75	d8	0.43	0/499	1.15	5/670 (0.7%)
76	d9	0.33	0/452	0.89	2/600 (0.3%)
76	e	0.34	0/452	0.74	0/600
77	e0	0.37	0/499	0.94	3/665 (0.5%)
77	f	0.53	1/483 (0.2%)	1.07	2/643 (0.3%)
78	e1	0.56	0/322	1.91	12/429 (2.8%)
78	g	0.41	0/577	1.55	11/770 (1.4%)
79	Rb	0.39	0/2495	1.07	14/3395 (0.4%)
79	h	0.33	0/2447	1.03	9/3330 (0.3%)
All	All	0.23	15/425385 (0.0%)	0.61	533/624774 (0.1%)

Chiral center outliers are detected by calculating the chiral volume of a chiral center and verifying if the center is modelled as a planar moiety or with the opposite hand.A planarity outlier is detected

by checking planarity of atoms in a peptide group, atoms in a mainchain group or atoms of a sidechain that are expected to be planar.

Mol	Chain	#Chirality outliers	#Planarity outliers
2	s0	0	1
3	C	0	1
6	F	0	3
9	I	0	2
11	K	0	1
16	Q	0	1
16	c5	0	1
17	R	0	3
20	U	0	1
21	d0	0	1
23	X	0	1
25	d4	0	2
26	DB	0	2
38	l	0	1
60	DI	0	1
73	b	0	1
73	d6	0	1
74	d7	0	1
78	e1	0	1
All	All	0	26

All (15) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
74	d7	58	SER	CA-CB	-10.23	1.36	1.53
17	c6	65	ILE	CG1-CD1	8.39	1.84	1.51
71	p0	91	GLU	N-CA	-7.99	1.35	1.46
16	c5	52	LYS	C-O	-7.67	1.20	1.23
77	f	51	ASN	CG-ND2	-7.22	1.18	1.33
6	F	193	GLY	N-CA	7.10	1.55	1.45
71	p0	91	GLU	C-N	6.89	1.42	1.33
26	DB	102	GLU	C-N	6.75	1.47	1.33
71	p0	92	PRO	N-CA	6.63	1.55	1.47
74	d7	59	CYS	CA-CB	-6.62	1.46	1.54
74	d7	58	SER	N-CA	5.66	1.53	1.46
42	p	104	GLU	CD-OE2	5.48	1.35	1.25
26	DB	102	GLU	N-CA	-5.42	1.39	1.46
17	c6	22	VAL	CB-CG2	5.41	1.70	1.52
71	p0	92	PRO	N-CD	5.29	1.55	1.47

All (533) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
74	d7	58	SER	CA-C-N	19.73	161.37	126.45
74	d7	58	SER	C-N-CA	19.73	161.37	126.45
73	b	74	CYS	CA-C-N	18.15	154.64	121.97
73	b	74	CYS	C-N-CA	18.15	154.64	121.97
7	G	65	ARG	CA-C-N	17.23	152.72	121.70
7	G	65	ARG	C-N-CA	17.23	152.72	121.70
3	C	36	SER	CA-C-N	17.11	154.22	121.54
3	C	36	SER	C-N-CA	17.11	154.22	121.54
16	Q	29	SER	CA-C-N	16.93	152.01	123.91
16	Q	29	SER	C-N-CA	16.93	152.01	123.91
17	R	58	ASP	CA-C-N	15.24	150.65	121.54
17	R	58	ASP	C-N-CA	15.24	150.65	121.54
20	U	132	LEU	CA-C-N	15.14	149.15	120.99
20	U	132	LEU	C-N-CA	15.14	149.15	120.99
41	o	158	LYS	CA-C-N	13.48	145.96	121.70
41	o	158	LYS	C-N-CA	13.48	145.96	121.70
78	e1	136	LYS	CA-C-N	13.42	150.48	125.66
78	e1	136	LYS	C-N-CA	13.42	150.48	125.66
38	l	232	SER	CA-C-N	13.22	146.80	121.54
38	l	232	SER	C-N-CA	13.22	146.80	121.54
25	d4	29	HIS	CA-C-N	13.09	136.20	119.84
25	d4	29	HIS	C-N-CA	13.09	136.20	119.84
17	R	40	GLU	CA-C-N	13.04	139.35	120.96
17	R	40	GLU	C-N-CA	13.04	139.35	120.96
16	c5	127	ARG	CA-C-N	12.57	145.54	121.54
16	c5	127	ARG	C-N-CA	12.57	145.54	121.54
39	CG	43	LYS	CA-C-N	12.49	145.41	121.54
39	CG	43	LYS	C-N-CA	12.49	145.41	121.54
60	DI	83	ASN	N-CA-C	-12.30	97.57	111.71
5	s3	216	PRO	N-CA-C	11.72	132.76	113.78
9	I	13	PRO	CA-C-N	11.51	142.42	121.70
9	I	13	PRO	C-N-CA	11.51	142.42	121.70
21	d0	102	ARG	CA-C-N	11.43	142.54	121.97
21	d0	102	ARG	C-N-CA	11.43	142.54	121.97
6	F	193	GLY	CA-C-N	11.40	146.74	125.66
6	F	193	GLY	C-N-CA	11.40	146.74	125.66
39	m	43	LYS	CA-C-N	11.38	143.28	121.54
39	m	43	LYS	C-N-CA	11.38	143.28	121.54
79	Rb	212	ALA	CA-C-N	11.21	142.94	121.54
79	Rb	212	ALA	C-N-CA	11.21	142.94	121.54
33	k	172	ALA	CA-C-N	11.18	141.20	122.65
33	k	172	ALA	C-N-CA	11.18	141.20	122.65
6	F	194	THR	O-C-N	-10.64	110.49	121.88

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
64	DM	32	ASN	CA-C-N	10.45	141.50	121.54
64	DM	32	ASN	C-N-CA	10.45	141.50	121.54
78	e1	133	ALA	N-CA-C	10.41	122.32	110.97
3	C	94	LYS	CA-C-N	10.23	139.94	122.15
3	C	94	LYS	C-N-CA	10.23	139.94	122.15
75	d8	60	GLU	CA-C-N	10.20	141.02	121.54
75	d8	60	GLU	C-N-CA	10.20	141.02	121.54
28	DC	47	LYS	CA-C-N	10.19	144.50	125.66
28	DC	47	LYS	C-N-CA	10.19	144.50	125.66
78	g	148	TYR	CA-C-N	9.71	140.10	121.54
78	g	148	TYR	C-N-CA	9.71	140.10	121.54
79	h	50	ASP	CA-C-N	9.43	139.55	121.54
79	h	50	ASP	C-N-CA	9.43	139.55	121.54
41	CI	232	ARG	CA-C-N	9.37	141.51	125.02
41	CI	232	ARG	C-N-CA	9.37	141.51	125.02
52	CT	165	LYS	CA-C-N	9.11	136.02	122.08
52	CT	165	LYS	C-N-CA	9.11	136.02	122.08
16	Q	69	GLU	CA-C-N	9.04	137.86	123.93
16	Q	69	GLU	C-N-CA	9.04	137.86	123.93
4	s2	149	GLY	N-CA-C	8.95	134.39	113.18
20	U	104	VAL	N-CA-C	-8.80	100.46	113.39
26	DB	103	GLN	N-CA-C	8.77	129.18	109.81
16	Q	125	PRO	N-CA-C	8.72	130.43	112.47
10	J	115	ALA	CA-C-N	8.71	136.23	121.86
10	J	115	ALA	C-N-CA	8.71	136.23	121.86
14	c3	138	ASN	CA-C-N	8.62	138.00	121.54
14	c3	138	ASN	C-N-CA	8.62	138.00	121.54
79	h	70	ASP	CA-C-N	8.56	134.91	122.23
79	h	70	ASP	C-N-CA	8.56	134.91	122.23
9	s7	32	PRO	N-CA-C	-8.50	102.80	114.27
3	C	131	ASP	N-CA-C	-8.46	95.56	108.67
21	d0	51	VAL	CA-C-N	8.43	137.64	121.54
21	d0	51	VAL	C-N-CA	8.43	137.64	121.54
79	Rb	214	ALA	N-CA-C	8.41	122.63	111.28
6	F	195	ILE	CA-C-N	-8.34	106.96	121.97
6	F	195	ILE	C-N-CA	-8.34	106.96	121.97
21	d0	47	GLN	N-CA-C	-8.33	103.98	114.56
15	P	42	VAL	N-CA-C	8.27	120.09	108.93
21	V	106	ILE	CA-C-N	8.17	134.42	121.44
21	V	106	ILE	C-N-CA	8.17	134.42	121.44
73	b	73	TYR	CA-C-N	8.14	135.93	122.66
73	b	73	TYR	C-N-CA	8.14	135.93	122.66

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	DB	102	GLU	N-CA-C	8.14	120.43	110.91
6	F	193	GLY	N-CA-C	8.13	132.45	113.18
16	c5	126	VAL	CA-C-N	8.12	137.04	121.54
16	c5	126	VAL	C-N-CA	8.12	137.04	121.54
64	DM	35	GLY	CA-C-N	8.11	141.59	121.80
64	DM	35	GLY	C-N-CA	8.11	141.59	121.80
9	s7	63	PRO	CA-C-N	8.04	137.01	122.13
9	s7	63	PRO	C-N-CA	8.04	137.01	122.13
9	s7	72	LYS	CA-C-N	-7.93	107.69	121.97
9	s7	72	LYS	C-N-CA	-7.93	107.69	121.97
17	c6	41	PRO	CA-C-N	7.91	138.94	125.02
17	c6	41	PRO	C-N-CA	7.91	138.94	125.02
78	g	87	THR	N-CA-C	7.87	127.19	109.81
9	s7	73	VAL	CA-C-N	7.85	136.53	121.54
9	s7	73	VAL	C-N-CA	7.85	136.53	121.54
78	e1	144	CYS	N-CA-C	-7.78	99.01	110.52
3	C	130	SER	CA-C-N	7.76	133.56	121.99
3	C	130	SER	C-N-CA	7.76	133.56	121.99
46	CN	62	THR	CA-C-N	7.68	135.79	121.97
46	CN	62	THR	C-N-CA	7.68	135.79	121.97
21	V	107	THR	N-CA-C	-7.57	102.35	114.09
45	s	38	GLU	CA-C-N	-7.52	108.36	122.27
45	s	38	GLU	C-N-CA	-7.52	108.36	122.27
8	H	215	ARG	N-CA-C	-7.51	104.26	113.50
12	L	93	GLN	CA-C-N	-7.51	100.90	122.15
12	L	93	GLN	C-N-CA	-7.51	100.90	122.15
9	I	167	GLU	CA-C-N	7.49	143.35	122.15
9	I	167	GLU	C-N-CA	7.49	143.35	122.15
61	AI	91	ALA	CA-C-N	7.46	133.19	121.56
61	AI	91	ALA	C-N-CA	7.46	133.19	121.56
77	f	49	LEU	CB-CG-CD1	-7.45	88.35	110.70
28	AB	116	GLY	N-CA-C	7.43	130.80	113.18
42	CJ	109	LEU	CA-C-N	-7.43	108.52	122.27
42	CJ	109	LEU	C-N-CA	-7.43	108.52	122.27
77	e0	59	GLY	N-CA-C	-7.42	103.10	112.00
38	l	231	ALA	CA-C-N	7.39	135.65	121.54
38	l	231	ALA	C-N-CA	7.39	135.65	121.54
21	d0	47	GLN	CA-C-N	7.38	135.02	122.26
21	d0	47	GLN	C-N-CA	7.38	135.02	122.26
3	C	159	SER	N-CA-C	-7.37	95.10	110.80
60	AH	83	ASN	N-CA-C	-7.36	104.83	113.88
26	DB	101	PHE	CA-C-N	-7.33	111.86	122.93

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	DB	101	PHE	C-N-CA	-7.33	111.86	122.93
79	Rb	160	GLU	N-CA-C	-7.33	95.62	108.23
2	s0	82	GLY	N-CA-C	7.33	127.58	115.34
3	C	157	GLN	CA-C-N	7.33	135.53	121.54
3	C	157	GLN	C-N-CA	7.33	135.53	121.54
76	d9	5	ASN	CA-C-N	7.24	135.00	121.97
76	d9	5	ASN	C-N-CA	7.24	135.00	121.97
78	g	110	ALA	N-CA-C	7.23	121.32	108.24
26	DB	102	GLU	O-C-N	-7.22	114.52	123.33
38	CF	30	ILE	CA-CB-CG1	7.21	122.67	110.40
73	d6	57	SER	CA-C-N	7.19	133.83	123.27
73	d6	57	SER	C-N-CA	7.19	133.83	123.27
14	c3	103	GLU	CA-C-N	7.18	142.46	122.15
14	c3	103	GLU	C-N-CA	7.18	142.46	122.15
5	s3	215	GLU	CA-C-N	7.17	126.69	119.24
5	s3	215	GLU	C-N-CA	7.17	126.69	119.24
16	Q	68	PRO	CA-C-N	7.15	131.96	121.31
16	Q	68	PRO	C-N-CA	7.15	131.96	121.31
7	s5	114	ILE	CA-CB-CG1	7.13	122.53	110.40
7	G	118	LEU	CA-CB-CG	7.10	141.16	116.30
20	U	33	TYR	CA-C-N	-7.09	114.35	122.93
20	U	33	TYR	C-N-CA	-7.09	114.35	122.93
4	D	37	PRO	CA-C-N	7.04	134.64	121.97
4	D	37	PRO	C-N-CA	7.04	134.64	121.97
28	AB	77	LYS	CA-C-N	7.01	134.93	121.54
28	AB	77	LYS	C-N-CA	7.01	134.93	121.54
2	s0	43	ASP	CA-C-N	7.00	135.13	121.41
2	s0	43	ASP	C-N-CA	7.00	135.13	121.41
78	g	147	VAL	N-CA-C	6.97	120.79	109.78
22	d1	8	LEU	CA-C-N	6.95	134.49	121.97
22	d1	8	LEU	C-N-CA	6.95	134.49	121.97
44	CL	23	ASN	CA-C-N	6.95	135.45	123.91
44	CL	23	ASN	C-N-CA	6.95	135.45	123.91
11	K	165	GLY	CA-C-N	6.93	135.00	121.41
11	K	165	GLY	C-N-CA	6.93	135.00	121.41
45	s	172	LEU	N-CA-C	6.88	125.45	110.80
28	DC	46	ASP	CA-C-N	-6.88	112.55	122.93
28	DC	46	ASP	C-N-CA	-6.88	112.55	122.93
3	C	96	LEU	CA-CB-CG	6.86	140.29	116.30
17	R	39	VAL	CA-C-N	6.84	138.50	121.80
17	R	39	VAL	C-N-CA	6.84	138.50	121.80
8	H	18	ILE	CA-C-N	6.84	134.16	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	H	18	ILE	C-N-CA	6.84	134.16	122.12
17	R	57	LEU	CA-C-N	-6.83	108.49	121.54
17	R	57	LEU	C-N-CA	-6.83	108.49	121.54
79	Rb	94	VAL	CA-C-N	-6.82	111.65	122.76
79	Rb	94	VAL	C-N-CA	-6.82	111.65	122.76
18	S	84	TYR	CA-CB-CG	6.79	126.12	113.90
20	U	133	ASP	N-CA-C	-6.78	104.73	112.87
45	s	169	ALA	N-CA-C	6.77	125.22	110.80
5	s3	66	ILE	CA-CB-CG1	6.71	121.81	110.40
79	Rb	161	LYS	CA-C-N	6.71	134.36	121.54
79	Rb	161	LYS	C-N-CA	6.71	134.36	121.54
9	s7	13	PRO	CA-C-N	6.69	133.74	121.70
9	s7	13	PRO	C-N-CA	6.69	133.74	121.70
16	Q	28	MET	N-CA-C	-6.68	92.19	107.48
73	d6	9	GLY	N-CA-C	-6.67	97.38	113.18
15	P	90	ARG	CA-C-N	6.65	136.72	125.02
15	P	90	ARG	C-N-CA	6.65	136.72	125.02
12	L	90	THR	CA-C-N	-6.63	113.95	122.77
12	L	90	THR	C-N-CA	-6.63	113.95	122.77
7	s5	222	LYS	CD-CE-NZ	-6.61	90.75	111.90
28	AB	76	ASP	CA-C-N	-6.60	110.19	120.88
28	AB	76	ASP	C-N-CA	-6.60	110.19	120.88
3	C	218	LEU	N-CA-C	6.59	119.75	111.24
33	CE	350	ALA	N-CA-C	-6.59	101.65	110.55
3	C	32	ILE	CG1-CB-CG2	-6.53	91.10	110.70
60	AH	81	CYS	CA-CB-SG	6.52	129.40	114.40
78	e1	115	THR	N-CA-C	6.52	124.68	110.80
9	I	131	PHE	CA-C-N	6.50	127.96	119.84
9	I	131	PHE	C-N-CA	6.50	127.96	119.84
38	CF	318	LEU	CA-C-N	6.49	133.69	121.69
38	CF	318	LEU	C-N-CA	6.49	133.69	121.69
9	I	170	GLN	CB-CG-CD	-6.45	101.63	112.60
18	S	84	TYR	CA-C-N	6.44	134.04	122.13
18	S	84	TYR	C-N-CA	6.44	134.04	122.13
2	B	94	GLY	N-CA-C	-6.43	97.95	113.18
18	S	73	LEU	CA-CB-CG	6.42	138.78	116.30
13	c1	128	CYS	N-CA-C	6.42	118.66	107.49
57	CY	24	GLY	CA-C-N	-6.41	109.29	121.54
57	CY	24	GLY	C-N-CA	-6.41	109.29	121.54
71	p0	41	VAL	N-CA-C	-6.41	103.96	113.39
73	d6	58	VAL	N-CA-C	-6.41	101.00	108.82
31	CD	25	GLY	N-CA-C	6.40	128.35	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	d1	9	VAL	N-CA-C	-6.38	96.08	109.34
35	1	979	U	P-O3'-C3'	6.36	129.74	120.20
3	C	217	LEU	N-CA-C	6.33	118.69	109.07
52	CT	166	ASN	N-CA-C	-6.32	106.53	114.56
13	c1	29	LYS	N-CA-C	-6.32	97.56	108.56
68	AP	30	ALA	N-CA-C	6.30	121.70	111.37
60	DI	107	GLU	CA-CB-CG	6.29	126.69	114.10
45	s	171	VAL	CA-C-N	6.28	133.54	121.54
45	s	171	VAL	C-N-CA	6.28	133.54	121.54
78	e1	139	LEU	CA-C-N	6.28	131.49	120.87
78	e1	139	LEU	C-N-CA	6.28	131.49	120.87
23	d2	55	ASP	N-CA-C	-6.27	100.70	110.42
2	s0	162	CYS	CA-CB-SG	-6.26	100.00	114.40
20	U	51	GLU	N-CA-C	-6.25	94.43	107.37
12	c0	35	ILE	CA-CB-CG1	6.24	121.01	110.40
74	d7	59	CYS	N-CA-CB	-6.23	107.06	114.17
18	S	81	LYS	CA-C-N	6.23	132.14	121.86
18	S	81	LYS	C-N-CA	6.23	132.14	121.86
60	DI	105	VAL	N-CA-C	-6.23	104.85	112.76
75	d8	33	LEU	CA-CB-CG	6.22	138.08	116.30
12	L	88	PRO	CA-C-N	-6.21	112.86	122.30
12	L	88	PRO	C-N-CA	-6.21	112.86	122.30
25	d4	51	GLU	CA-C-N	6.20	133.38	121.54
25	d4	51	GLU	C-N-CA	6.20	133.38	121.54
19	c8	59	GLY	CA-C-N	6.19	133.01	122.12
19	c8	59	GLY	C-N-CA	6.19	133.01	122.12
2	B	146	LEU	N-CA-C	-6.18	99.93	109.76
24	Y	111	GLY	N-CA-C	-6.17	100.46	110.95
38	l	139	GLY	N-CA-C	-6.14	102.09	111.24
28	DC	46	ASP	N-CA-C	-6.13	102.62	110.53
17	c6	39	VAL	CA-C-N	-6.13	106.85	121.80
17	c6	39	VAL	C-N-CA	-6.13	106.85	121.80
3	C	156	ALA	CA-C-N	-6.12	110.67	121.87
3	C	156	ALA	C-N-CA	-6.12	110.67	121.87
32	DF	83	GLU	CA-C-N	6.11	131.08	121.56
32	DF	83	GLU	C-N-CA	6.11	131.08	121.56
3	C	96	LEU	CA-C-N	6.10	130.14	121.42
3	C	96	LEU	C-N-CA	6.10	130.14	121.42
79	Rb	212	ALA	N-CA-C	6.09	119.42	110.59
21	d0	34	LEU	CA-CB-CG	6.09	137.60	116.30
11	s9	128	LEU	CA-CB-CG	6.08	137.58	116.30
77	e0	62	VAL	CA-C-N	6.05	132.60	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
77	e0	62	VAL	C-N-CA	6.05	132.60	121.70
51	y	174	ARG	CA-C-N	6.05	132.77	122.12
51	y	174	ARG	C-N-CA	6.05	132.77	122.12
17	c6	65	ILE	CB-CA-C	-6.05	101.50	110.33
78	e1	139	LEU	CA-CB-CG	6.05	137.47	116.30
3	C	217	LEU	CA-C-N	6.05	130.68	120.88
3	C	217	LEU	C-N-CA	6.05	130.68	120.88
54	2	17	ARG	N-CA-C	6.04	119.70	112.93
7	G	36	ALA	CA-C-N	6.03	131.16	122.23
7	G	36	ALA	C-N-CA	6.03	131.16	122.23
25	Z	65	GLY	N-CA-C	-6.03	98.88	113.18
75	d8	59	SER	CA-C-N	-6.03	113.07	122.42
75	d8	59	SER	C-N-CA	-6.03	113.07	122.42
43	q	187	ILE	N-CA-C	-6.02	96.82	109.34
11	K	165	GLY	N-CA-C	-6.01	98.93	113.18
24	Y	130	VAL	N-CA-C	6.01	121.83	109.34
60	DI	104	VAL	CA-CB-CG2	6.00	120.60	110.40
68	AP	35	LEU	N-CA-C	-5.99	102.58	110.43
33	CE	346	THR	CA-C-N	5.99	132.98	121.54
33	CE	346	THR	C-N-CA	5.99	132.98	121.54
14	c3	27	LYS	CA-C-N	-5.97	111.67	122.54
14	c3	27	LYS	C-N-CA	-5.97	111.67	122.54
26	AA	124	ALA	N-CA-C	-5.97	103.22	111.28
9	s7	31	SER	N-CA-C	5.97	120.64	110.02
46	CN	164	GLU	CA-C-N	5.96	133.81	123.91
46	CN	164	GLU	C-N-CA	5.96	133.81	123.91
42	p	77	GLN	N-CA-C	-5.95	105.87	113.01
5	s3	44	THR	CA-C-N	5.95	132.43	122.20
5	s3	44	THR	C-N-CA	5.95	132.43	122.20
46	t	134	GLU	CB-CG-CD	5.94	122.70	112.60
11	K	137	GLY	N-CA-C	-5.91	99.17	113.18
15	P	41	ARG	N-CA-C	5.90	120.27	112.72
61	AI	89	ARG	CA-C-N	5.90	132.50	122.12
61	AI	89	ARG	C-N-CA	5.90	132.50	122.12
23	d2	55	ASP	CA-C-N	-5.89	110.52	122.31
23	d2	55	ASP	C-N-CA	-5.89	110.52	122.31
24	Y	114	LYS	N-CA-C	5.89	117.39	110.97
9	s7	26	GLU	CA-C-N	-5.88	111.39	122.27
9	s7	26	GLU	C-N-CA	-5.88	111.39	122.27
8	H	165	GLY	N-CA-C	-5.88	99.24	113.18
26	DB	102	GLU	CA-C-N	5.88	136.15	121.80
26	DB	102	GLU	C-N-CA	5.88	136.15	121.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	V	20	ILE	N-CA-C	5.88	121.57	109.34
20	U	54	PHE	N-CA-C	-5.87	104.83	112.23
18	S	85	VAL	N-CA-C	5.87	121.56	108.88
46	CN	133	PRO	CA-C-N	5.86	130.71	121.56
46	CN	133	PRO	C-N-CA	5.86	130.71	121.56
3	C	91	VAL	CA-C-N	5.86	132.27	122.20
3	C	91	VAL	C-N-CA	5.86	132.27	122.20
13	M	2	SER	CA-C-N	5.86	132.73	121.54
13	M	2	SER	C-N-CA	5.86	132.73	121.54
15	P	81	VAL	CA-C-N	5.86	133.17	121.81
15	P	81	VAL	C-N-CA	5.86	133.17	121.81
72	a	50	ILE	CA-CB-CG1	5.85	120.35	110.40
8	H	19	ASP	N-CA-C	-5.85	100.79	109.86
22	W	1	MET	CG-SD-CE	5.85	113.77	100.90
9	I	18	LEU	CB-CG-CD1	-5.84	93.19	110.70
79	Rb	213	SER	N-CA-C	5.84	123.23	110.80
78	g	111	GLU	CA-C-N	5.83	132.19	121.70
78	g	111	GLU	C-N-CA	5.83	132.19	121.70
70	sM	41	SER	CA-C-N	5.83	132.37	122.12
70	sM	41	SER	C-N-CA	5.83	132.37	122.12
33	k	237	LYS	CA-C-N	-5.82	112.66	123.55
33	k	237	LYS	C-N-CA	-5.82	112.66	123.55
25	d4	50	ALA	CA-C-N	-5.81	114.15	122.93
25	d4	50	ALA	C-N-CA	-5.81	114.15	122.93
61	AI	90	ARG	N-CA-C	-5.81	100.85	109.86
72	d5	100	ILE	CA-CB-CG1	5.79	120.24	110.40
72	d5	44	GLN	CA-C-N	-5.78	111.91	122.38
72	d5	44	GLN	C-N-CA	-5.78	111.91	122.38
18	S	83	GLN	CB-CG-CD	5.78	122.42	112.60
78	e1	135	HIS	N-CA-C	5.78	119.08	111.28
2	B	166	GLY	N-CA-C	5.77	126.85	113.18
31	CD	143	GLU	N-CA-C	-5.76	103.50	111.28
74	c	61	THR	CA-C-N	5.75	132.33	121.97
74	c	61	THR	C-N-CA	5.75	132.33	121.97
7	G	43	PHE	N-CA-C	-5.75	100.82	109.79
77	f	49	LEU	N-CA-CB	-5.74	101.23	110.77
16	c5	73	PRO	N-CA-C	5.74	124.30	112.47
78	e1	134	ASN	N-CA-C	5.74	115.82	108.24
32	DF	83	GLU	N-CA-C	-5.74	103.53	111.28
6	s4	167	GLY	N-CA-C	-5.74	99.58	113.18
41	CI	233	GLU	N-CA-C	5.73	122.44	113.72
6	F	188	ASN	N-CA-C	-5.71	106.27	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	L	44	LYS	CA-C-N	5.71	138.31	122.15
12	L	44	LYS	C-N-CA	5.71	138.31	122.15
28	DC	48	TYR	N-CA-C	5.71	124.70	113.29
17	c6	22	VAL	CA-CB-CG2	5.71	120.10	110.40
42	CJ	111	LYS	CD-CE-NZ	-5.70	93.65	111.90
16	Q	124	THR	N-CA-C	-5.70	97.21	109.81
78	g	146	SER	CA-C-N	5.70	128.27	120.35
78	g	146	SER	C-N-CA	5.70	128.27	120.35
41	o	232	ARG	N-CA-C	-5.69	101.43	109.96
74	d7	61	THR	N-CA-C	5.69	118.87	109.94
2	B	186	GLY	N-CA-C	-5.68	99.71	113.18
74	c	2	VAL	CA-C-N	5.68	132.38	121.54
74	c	2	VAL	C-N-CA	5.68	132.38	121.54
7	G	81	ARG	N-CA-C	5.67	117.94	111.02
15	P	42	VAL	N-CA-CB	-5.67	103.97	110.49
15	P	44	GLY	N-CA-C	5.67	126.61	113.18
3	C	179	SER	CA-C-N	5.66	133.44	122.07
3	C	179	SER	C-N-CA	5.66	133.44	122.07
6	F	194	THR	N-CA-C	5.66	124.61	113.29
74	d7	2	VAL	CA-C-N	5.65	132.33	121.54
74	d7	2	VAL	C-N-CA	5.65	132.33	121.54
21	V	105	GLN	CA-C-N	-5.63	112.12	121.63
21	V	105	GLN	C-N-CA	-5.63	112.12	121.63
3	C	222	LYS	CA-C-N	5.62	129.26	120.82
3	C	222	LYS	C-N-CA	5.62	129.26	120.82
18	S	83	GLN	CA-CB-CG	5.61	125.32	114.10
17	R	41	PRO	N-CA-C	-5.59	104.20	112.26
9	I	170	GLN	CA-CB-CG	5.59	125.28	114.10
21	V	17	GLN	N-CA-C	5.59	118.83	111.28
21	d0	33	GLN	CA-C-N	-5.59	113.76	122.37
21	d0	33	GLN	C-N-CA	-5.59	113.76	122.37
58	CZ	140	GLY	N-CA-C	5.58	126.39	113.18
25	d4	58	PHE	N-CA-C	5.54	122.61	110.80
17	c6	40	GLU	N-CA-C	5.54	122.06	109.81
34	AF	11	LYS	CA-C-N	5.54	134.77	125.02
34	AF	11	LYS	C-N-CA	5.54	134.77	125.02
45	s	107	ASP	N-CA-C	-5.54	101.78	110.36
42	p	101	THR	CA-CB-CG2	5.53	119.90	110.50
24	Y	114	LYS	CA-C-N	-5.53	110.57	121.41
24	Y	114	LYS	C-N-CA	-5.53	110.57	121.41
11	s9	172	VAL	N-CA-C	-5.53	106.07	112.98
33	k	350	ALA	N-CA-C	-5.52	102.58	110.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
12	c0	23	ALA	N-CA-C	5.52	122.56	110.80
17	R	56	GLY	N-CA-C	-5.52	100.11	113.18
4	s2	83	ILE	CA-CB-CG1	5.51	119.77	110.40
73	b	9	GLY	N-CA-C	-5.51	100.12	113.18
74	d7	58	SER	O-C-N	-5.50	114.76	121.92
9	s7	34	LEU	CA-C-N	-5.49	111.84	122.06
9	s7	34	LEU	C-N-CA	-5.49	111.84	122.06
52	CT	160	GLU	N-CA-C	-5.49	107.23	114.04
11	s9	99	LEU	CA-CB-CG	5.47	135.46	116.30
3	C	32	ILE	CA-CB-CG1	5.47	119.70	110.40
16	Q	125	PRO	CA-C-N	-5.47	112.12	121.97
16	Q	125	PRO	C-N-CA	-5.47	112.12	121.97
42	p	77	GLN	CA-C-N	5.47	131.74	122.12
42	p	77	GLN	C-N-CA	5.47	131.74	122.12
11	K	99	LEU	CA-CB-CG	5.46	135.43	116.30
42	p	117	ALA	N-CA-C	-5.46	106.30	113.12
20	c9	50	ALA	N-CA-C	5.43	120.32	111.37
21	d0	46	GLU	CA-C-N	5.43	130.38	122.08
21	d0	46	GLU	C-N-CA	5.43	130.38	122.08
78	g	85	TYR	N-CA-C	5.42	118.59	111.28
15	c4	47	LYS	CA-C-N	5.42	131.72	121.97
15	c4	47	LYS	C-N-CA	5.42	131.72	121.97
46	t	6	ASN	CA-C-N	5.40	129.85	122.07
46	t	6	ASN	C-N-CA	5.40	129.85	122.07
24	Y	115	GLY	N-CA-C	5.40	125.97	113.18
31	j	143	GLU	N-CA-C	-5.40	102.50	113.29
42	CJ	230	LYS	CA-CB-CG	5.39	124.89	114.10
52	z	43	LYS	CD-CE-NZ	-5.39	94.65	111.90
17	c6	22	VAL	CG1-CB-CG2	5.39	122.65	110.80
10	J	9	HIS	N-CA-C	-5.37	101.41	109.79
53	0	23	LYS	N-CA-C	5.37	119.58	113.19
38	l	232	SER	N-CA-C	-5.37	99.37	110.80
19	c8	60	GLU	N-CA-C	-5.37	101.55	109.86
60	AH	81	CYS	N-CA-C	5.36	119.53	113.15
2	s0	44	GLY	CA-C-N	5.35	131.60	121.97
2	s0	44	GLY	C-N-CA	5.35	131.60	121.97
3	C	195	LYS	CA-C-N	-5.34	111.79	120.72
3	C	195	LYS	C-N-CA	-5.34	111.79	120.72
20	U	132	LEU	CA-CB-CG	5.34	134.99	116.30
78	e1	132	LEU	CA-C-N	5.33	127.69	120.65
78	e1	132	LEU	C-N-CA	5.33	127.69	120.65
20	U	36	ILE	N-CA-C	5.32	120.42	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	DG	11	LYS	CA-C-N	5.32	134.38	125.02
34	DG	11	LYS	C-N-CA	5.32	134.38	125.02
28	DC	76	ASP	CA-C-N	-5.32	114.58	122.56
28	DC	76	ASP	C-N-CA	-5.32	114.58	122.56
3	C	157	GLN	N-CA-C	5.31	116.08	107.32
26	AA	123	GLN	N-CA-C	-5.31	101.81	110.20
41	CI	162	PRO	CA-C-N	-5.31	112.28	120.88
41	CI	162	PRO	C-N-CA	-5.31	112.28	120.88
71	p0	93	LEU	N-CA-C	5.31	116.76	110.97
79	h	71	CYS	CA-C-N	5.31	130.27	122.63
79	h	71	CYS	C-N-CA	5.31	130.27	122.63
52	z	54	ALA	CA-C-N	5.30	127.81	120.49
52	z	54	ALA	C-N-CA	5.30	127.81	120.49
12	c0	2	LEU	CA-C-N	5.29	134.70	121.80
12	c0	2	LEU	C-N-CA	5.29	134.70	121.80
9	I	170	GLN	CB-CA-C	-5.29	101.97	110.74
16	c5	17	TYR	CA-C-N	5.27	131.60	121.54
16	c5	17	TYR	C-N-CA	5.27	131.60	121.54
29	DD	24	PRO	N-CA-C	5.27	123.32	112.47
18	S	22	PRO	CA-C-N	5.26	132.83	122.73
18	S	22	PRO	C-N-CA	5.26	132.83	122.73
26	AA	35	SER	N-CA-C	-5.26	101.58	109.79
26	AA	34	LYS	CA-C-N	5.25	130.53	121.86
26	AA	34	LYS	C-N-CA	5.25	130.53	121.86
65	DN	4	GLN	N-CA-C	-5.25	95.45	107.48
79	Rb	125	GLY	N-CA-C	-5.25	100.73	113.18
79	h	69	GLN	CA-C-N	-5.24	113.69	123.01
79	h	69	GLN	C-N-CA	-5.24	113.69	123.01
72	a	38	HIS	N-CA-C	5.24	118.35	111.28
22	d1	51	VAL	N-CA-C	-5.24	98.45	109.34
2	B	4	PRO	N-CA-C	5.21	123.20	112.47
18	c7	95	ARG	CA-C-N	5.21	131.08	121.70
18	c7	95	ARG	C-N-CA	5.21	131.08	121.70
13	M	4	GLU	N-CA-C	5.21	118.51	111.17
59	AG	58	GLU	CA-C-N	5.20	131.34	121.97
59	AG	58	GLU	C-N-CA	5.20	131.34	121.97
19	T	47	CYS	CA-C-N	-5.19	111.55	121.94
19	T	47	CYS	C-N-CA	-5.19	111.55	121.94
73	d6	59	TYR	CA-C-N	5.19	126.33	119.84
73	d6	59	TYR	C-N-CA	5.19	126.33	119.84
73	b	57	SER	CA-C-N	5.18	131.30	121.97
73	b	57	SER	C-N-CA	5.18	131.30	121.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	s0	166	GLY	CA-C-N	5.18	130.41	121.86
2	s0	166	GLY	C-N-CA	5.18	130.41	121.86
28	DC	48	TYR	CB-CA-C	-5.18	100.45	110.35
21	d0	51	VAL	N-CA-C	5.18	114.85	108.53
22	d1	10	GLU	CA-C-N	5.18	130.62	120.99
22	d1	10	GLU	C-N-CA	5.18	130.62	120.99
2	B	5	ALA	CA-C-N	5.17	131.42	121.54
2	B	5	ALA	C-N-CA	5.17	131.42	121.54
78	g	148	TYR	CA-CB-CG	-5.16	104.61	113.90
73	b	74	CYS	N-CA-C	5.15	118.43	112.97
6	F	194	THR	CA-C-N	5.15	131.24	121.97
6	F	194	THR	C-N-CA	5.15	131.24	121.97
10	s8	51	GLY	N-CA-C	-5.14	101.00	113.18
16	c5	16	SER	CA-C-N	5.14	130.34	121.86
16	c5	16	SER	C-N-CA	5.14	130.34	121.86
38	CF	271	LYS	N-CA-C	-5.13	100.71	108.67
6	F	244	ILE	CG1-CB-CG2	-5.13	95.31	110.70
2	s0	167	LYS	CA-C-N	5.13	128.89	120.63
2	s0	167	LYS	C-N-CA	5.13	128.89	120.63
16	Q	25	LEU	N-CA-C	-5.12	106.29	112.54
21	d0	103	ILE	N-CA-C	-5.12	98.68	109.34
39	CG	44	TYR	CA-CB-CG	5.12	123.11	113.90
1	sR	952	A	O5'-P-OP1	-5.12	92.64	108.00
20	U	59	ALA	N-CA-C	-5.11	105.88	112.68
2	B	167	LYS	CA-C-N	5.11	131.30	121.54
2	B	167	LYS	C-N-CA	5.11	131.30	121.54
38	l	183	LYS	N-CA-C	-5.10	106.30	112.88
38	CF	13	GLY	N-CA-C	-5.09	101.11	113.18
64	DM	17	ARG	CA-C-N	5.09	129.57	122.08
64	DM	17	ARG	C-N-CA	5.09	129.57	122.08
13	c1	130	PRO	CA-C-N	5.09	129.59	121.34
13	c1	130	PRO	C-N-CA	5.09	129.59	121.34
21	V	44	ASN	CA-C-N	5.09	133.12	122.58
21	V	44	ASN	C-N-CA	5.09	133.12	122.58
29	AC	22	LYS	CA-C-N	5.08	134.20	121.80
29	AC	22	LYS	C-N-CA	5.08	134.20	121.80
5	s3	216	PRO	CB-CA-C	-5.08	104.62	113.20
7	G	105	GLY	N-CA-C	-5.07	101.16	113.18
52	CT	158	GLU	N-CA-C	-5.07	103.01	110.52
74	d7	57	GLU	CA-C-N	-5.07	114.95	122.56
74	d7	57	GLU	C-N-CA	-5.07	114.95	122.56
9	I	167	GLU	N-CA-CB	-5.06	101.94	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
79	h	70	ASP	N-CA-C	5.06	116.36	109.18
3	C	134	VAL	N-CA-C	-5.05	102.11	109.29
39	CG	293	LEU	CA-C-N	5.05	131.19	121.54
39	CG	293	LEU	C-N-CA	5.05	131.19	121.54
6	F	194	THR	CB-CA-C	-5.05	100.70	110.35
1	sR	1568	C	P-O3'-C3'	5.05	127.77	120.20
6	s4	117	GLU	N-CA-C	-5.05	102.55	110.17
21	V	24	ILE	CA-CB-CG1	5.04	118.98	110.40
1	sR	1568	C	C2'-C3'-O3'	5.04	117.07	109.50
52	CT	164	LEU	CA-C-N	-5.04	115.47	123.24
52	CT	164	LEU	C-N-CA	-5.04	115.47	123.24
25	d4	49	LYS	N-CA-C	-5.04	101.89	109.15
32	DF	84	ASP	CA-C-N	5.03	129.91	120.95
32	DF	84	ASP	C-N-CA	5.03	129.91	120.95
73	b	63	ALA	N-CA-C	5.03	119.16	112.72
79	Rb	138	GLY	N-CA-C	5.03	125.11	113.18
79	Rb	216	LYS	CA-C-N	-5.03	112.25	122.31
79	Rb	216	LYS	C-N-CA	-5.03	112.25	122.31
63	AK	87	SER	N-CA-C	5.03	121.52	110.80
42	p	75	ILE	N-CA-C	-5.03	102.46	109.45
52	CT	130	ASN	CA-C-N	5.03	134.96	125.66
52	CT	130	ASN	C-N-CA	5.03	134.96	125.66
10	J	116	HIS	N-CA-C	-5.01	101.98	109.79
42	p	101	THR	OG1-CB-CG2	5.01	119.32	109.30
52	CT	54	ALA	CA-C-N	5.01	127.40	120.49
52	CT	54	ALA	C-N-CA	5.01	127.40	120.49
6	F	165	ALA	CA-C-N	5.00	131.09	121.54
6	F	165	ALA	C-N-CA	5.00	131.09	121.54

There are no chirality outliers.

All (26) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
3	C	36	SER	Peptide
26	DB	102	GLU	Peptide,Mainchain
60	DI	80	ARG	Sidechain
6	F	193	GLY	Peptide
6	F	194	THR	Peptide,Mainchain
9	I	131	PHE	Peptide,Mainchain
11	K	3	ARG	Sidechain
16	Q	29	SER	Peptide
17	R	40	GLU	Peptide,Mainchain

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Mol	Chain	Res	Type	Group
17	R	58	ASP	Peptide
20	U	132	LEU	Peptide
23	X	3	ARG	Sidechain
73	b	74	CYS	Peptide
16	c5	127	ARG	Peptide
21	d0	102	ARG	Peptide
25	d4	29	HIS	Peptide,Mainchain
73	d6	10	ARG	Sidechain
74	d7	58	SER	Peptide
78	e1	136	LYS	Peptide
38	l	232	SER	Peptide
2	s0	41	ARG	Sidechain

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	A	36976	0	18602	1337	2
1	sR	37990	0	19115	1204	1
2	B	1577	0	1567	195	0
2	s0	1583	0	1578	129	0
3	C	1709	0	1784	210	0
3	s1	1722	0	1793	115	0
4	D	1635	0	1723	176	0
4	s2	1635	0	1723	97	0
5	E	1734	0	1817	117	0
5	s3	1734	0	1817	154	0
6	F	2068	0	2154	170	0
6	s4	2068	0	2154	119	0
7	G	1583	0	1652	169	0
7	s5	1576	0	1643	174	0
8	H	1792	0	1871	109	0
8	s6	1755	0	1846	87	0
9	I	1481	0	1572	138	0
9	s7	1491	0	1578	119	0
10	J	1489	0	1525	104	0
10	s8	1489	0	1525	102	0
11	K	1456	0	1543	129	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
11	s9	1494	0	1573	123	0
12	L	772	0	727	66	0
12	c0	702	0	675	59	0
13	M	1154	0	1220	68	0
13	c1	1168	0	1233	55	0
14	O	1192	0	1255	88	0
14	c3	1192	0	1255	64	0
15	P	891	0	883	97	0
15	c4	949	0	985	71	0
16	Q	928	0	958	87	0
16	c5	991	0	1010	96	0
17	R	1105	0	1166	107	0
17	c6	1111	0	1171	99	0
18	S	901	0	917	89	0
18	c7	906	0	909	67	0
19	T	1192	0	1222	137	0
19	c8	1192	0	1222	129	0
20	U	1112	0	1124	139	0
20	c9	1112	0	1124	82	0
21	V	855	0	917	97	0
21	d0	800	0	869	71	0
22	W	684	0	672	79	0
22	d1	684	0	672	43	0
23	X	1021	0	1060	83	0
23	d2	1021	0	1060	77	0
24	Y	1121	0	1196	68	0
24	d3	1121	0	1196	52	0
25	Z	1073	0	1132	71	0
25	d4	1073	0	1132	65	0
26	AA	1092	0	1155	65	0
26	DB	1092	0	1155	100	0
27	9	993	0	1081	34	0
27	DA	976	0	1064	49	0
28	AB	1173	0	1215	81	0
28	DC	1173	0	1215	85	0
29	AC	462	0	491	19	0
29	DD	462	0	491	19	0
30	AD	743	0	797	36	0
30	DE	743	0	797	38	0
31	CD	1914	0	1981	96	0
31	j	1914	0	1981	89	0
32	AE	876	0	912	30	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
32	DF	876	0	912	21	0
33	CE	3075	0	3142	126	0
33	k	3075	0	3142	148	0
34	AF	1020	0	1090	25	0
34	DG	1020	0	1090	33	0
35	1	67038	0	33689	1718	1
35	AR	67313	0	33825	1747	1
36	3	2579	0	1304	71	0
36	AS	2579	0	1304	58	0
37	4	3353	0	1695	95	1
37	AT	3353	0	1695	89	0
38	CF	2748	0	2859	121	0
38	l	2748	0	2859	119	0
39	CG	2375	0	2325	107	1
39	m	2375	0	2325	152	0
40	CH	1239	0	1326	57	0
40	n	1239	0	1326	36	0
41	CI	1784	0	1862	70	0
41	o	1784	0	1862	81	0
42	CJ	1804	0	1877	114	1
42	p	1804	0	1877	100	1
43	CK	1518	0	1587	67	1
43	q	1518	0	1587	102	0
44	CL	1705	0	1736	75	0
44	r	1705	0	1736	78	0
45	CM	1353	0	1383	76	1
45	s	1353	0	1383	112	0
46	CN	1543	0	1608	104	0
46	t	1543	0	1608	100	0
47	CO	1053	0	1149	51	0
47	u	1053	0	1149	64	0
48	CP	1720	0	1778	79	0
48	v	1720	0	1779	96	0
49	CQ	1555	0	1659	38	1
49	w	1555	0	1659	70	0
50	CR	1227	0	1236	51	0
50	x	1385	0	1413	65	0
51	CS	1441	0	1543	57	0
51	y	1441	0	1543	61	0
52	CT	1490	0	1589	91	0
52	z	1482	0	1578	75	0
53	0	1445	0	1487	68	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
53	CU	1445	0	1487	55	0
54	2	1276	0	1323	75	0
54	CV	1276	0	1323	51	0
55	5	796	0	812	58	0
55	CW	796	0	812	58	0
56	6	1003	0	1047	45	0
56	CX	1003	0	1048	52	0
57	7	543	0	564	21	0
57	CY	781	0	694	26	0
58	8	964	0	1024	44	0
58	CZ	946	0	1007	40	0
59	AG	839	0	866	41	0
59	DH	850	0	880	38	0
60	AH	880	0	942	48	0
60	DI	880	0	943	83	0
61	AI	969	0	1078	49	0
61	DJ	969	0	1078	40	0
62	AJ	771	0	849	49	0
62	DK	750	0	829	48	0
63	AK	681	0	682	39	0
63	DL	676	0	678	30	0
64	AL	612	0	682	43	0
64	DM	612	0	682	37	0
65	AM	436	0	475	20	0
65	DN	436	0	475	16	0
66	AN	417	0	455	21	0
66	DO	417	0	455	15	0
67	AO	233	0	284	13	0
67	DP	233	0	284	9	0
68	AP	847	0	914	62	0
68	DQ	847	0	914	73	0
69	AQ	694	0	734	33	0
69	DR	694	0	734	34	0
70	i	939	0	920	68	0
70	sM	475	0	492	38	0
71	p0	977	0	989	59	0
72	a	563	0	603	80	0
72	d5	558	0	598	60	0
73	b	745	0	792	77	0
73	d6	769	0	814	54	0
74	c	610	0	633	35	0
74	d7	610	0	632	50	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
75	d	497	0	535	39	0
75	d8	497	0	535	53	0
76	d9	442	0	428	29	0
76	e	442	0	428	28	0
77	e0	491	0	542	40	0
77	f	475	0	525	31	0
78	e1	317	0	323	36	0
78	g	566	0	602	52	0
79	Rb	2442	0	2392	282	0
79	h	2394	0	2344	239	0
80	1	2137	0	0	228	0
80	2	7	0	0	0	0
80	3	77	0	0	6	0
80	4	119	0	0	14	0
80	A	902	0	0	103	0
80	AC	7	0	0	2	0
80	AE	7	0	0	0	0
80	AG	7	0	0	1	0
80	AK	7	0	0	0	0
80	AP	7	0	0	3	0
80	AR	2238	0	0	259	0
80	AS	70	0	0	3	0
80	AT	98	0	0	8	0
80	CE	14	0	0	2	0
80	CG	21	0	0	2	0
80	CK	7	0	0	1	0
80	CL	20	0	0	3	0
80	CP	7	0	0	1	0
80	CS	7	0	0	2	0
80	CX	7	0	0	0	0
80	DD	7	0	0	2	0
80	DH	7	0	0	1	0
80	DK	7	0	0	1	0
80	DL	7	0	0	1	0
80	DQ	7	0	0	3	0
80	J	7	0	0	2	0
80	O	7	0	0	2	0
80	Q	7	0	0	1	0
80	Rb	7	0	0	2	0
80	S	7	0	0	1	0
80	T	7	0	0	1	0
80	c3	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
80	c5	7	0	0	2	0
80	c8	7	0	0	0	0
80	d4	7	0	0	0	0
80	d6	7	0	0	0	0
80	e	7	0	0	1	0
80	h	7	0	0	2	0
80	k	21	0	0	5	0
80	l	7	0	0	2	0
80	n	7	0	0	1	0
80	r	7	0	0	0	0
80	s1	7	0	0	1	0
80	s4	7	0	0	0	0
80	s8	7	0	0	1	0
80	sR	1063	0	0	130	0
80	v	7	0	0	1	0
80	x	7	0	0	2	0
80	y	7	0	0	0	0
80	z	14	0	0	1	0
81	1	489	0	0	0	0
81	3	12	0	0	0	0
81	4	21	0	0	0	0
81	6	3	0	0	0	0
81	8	3	0	0	0	0
81	9	1	0	0	0	0
81	A	139	0	0	0	0
81	AB	3	0	0	0	0
81	AC	1	0	0	0	0
81	AF	2	0	0	0	0
81	AH	1	0	0	0	0
81	AK	3	0	0	0	0
81	AN	1	0	0	0	0
81	AR	534	0	0	0	0
81	AS	18	0	0	0	0
81	AT	15	0	0	0	0
81	CD	2	0	0	0	0
81	CE	3	0	0	0	0
81	CF	2	0	0	0	0
81	CG	1	0	0	0	0
81	CI	2	0	0	0	0
81	CK	2	0	0	0	0
81	CL	1	0	0	0	0
81	CM	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
81	CO	1	0	0	0	0
81	CP	3	0	0	0	0
81	CQ	3	0	0	0	0
81	CR	6	0	0	0	0
81	CS	1	0	0	0	0
81	CU	2	0	0	0	0
81	CX	1	0	0	0	0
81	CY	1	0	0	0	0
81	D	1	0	0	0	0
81	DA	2	0	0	0	0
81	DC	2	0	0	0	0
81	DH	2	0	0	0	0
81	DI	1	0	0	0	0
81	DL	1	0	0	0	0
81	DO	1	0	0	0	0
81	DP	1	0	0	0	0
81	DQ	3	0	0	0	0
81	DR	2	0	0	0	0
81	F	1	0	0	0	0
81	O	1	0	0	0	0
81	P	1	0	0	0	0
81	b	1	0	0	0	0
81	c1	1	0	0	0	0
81	c4	2	0	0	0	0
81	c6	2	0	0	0	0
81	c8	2	0	0	0	0
81	c9	1	0	0	0	0
81	d2	1	0	0	0	0
81	d3	3	0	0	0	0
81	d4	2	0	0	0	0
81	d5	1	0	0	0	0
81	d6	2	0	0	0	0
81	d9	1	0	0	0	0
81	j	3	0	0	0	0
81	k	1	0	0	0	0
81	l	4	0	0	0	0
81	m	1	0	0	0	0
81	o	1	0	0	0	0
81	r	3	0	0	0	0
81	s	1	0	0	0	0
81	s1	1	0	0	0	0
81	s2	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
81	s4	2	0	0	0	0
81	s8	3	0	0	0	0
81	sM	2	0	0	0	0
81	sR	143	0	0	0	0
81	t	3	0	0	0	0
81	v	5	0	0	0	0
81	w	1	0	0	0	0
81	x	8	0	0	0	0
81	z	2	0	0	0	0
82	A	2	0	0	0	0
82	AR	1	0	0	0	0
82	CK	1	0	0	0	0
83	1	10	0	19	3	0
83	AR	10	0	19	3	0
84	1	26	0	0	1	0
84	AR	26	0	0	2	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	c0	15	0	14	1	0
86	s3	9	0	6	0	0
87	1	60	0	0	12	0
87	8	6	0	0	1	0
87	A	44	0	0	3	0
87	AF	3	0	0	0	0
87	AO	1	0	0	0	0
87	AR	81	0	0	4	0
87	AT	2	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
87	CD	1	0	0	0	0
87	CP	3	0	0	0	0
87	CR	1	0	0	1	0
87	DG	3	0	0	0	0
87	F	1	0	0	0	0
87	i	1	0	0	0	0
87	sR	24	0	0	2	0
All	All	404943	0	293267	15297	6

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 22.

All (15297) 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)
17:c6:65:ILE:CG1	17:c6:65:ILE:CD1	1.84	1.50
68:AP:71:ARG:NH2	68:AP:80:ARG:HH21	1.01	1.50
68:AP:71:ARG:HH21	68:AP:80:ARG:NH2	1.11	1.42
68:DQ:15:LYS:O	68:DQ:15:LYS:HD2	1.25	1.33
79:Rb:199:ILE:HA	79:Rb:215:GLY:HA3	1.28	1.15
60:DI:46:ASP:HB3	60:DI:84:CYS:SG	1.87	1.14
60:DI:44:CYS:SG	60:DI:81:CYS:N	2.28	1.07
19:T:6:GLN:HG2	72:a:42:LEU:HD11	1.36	1.06
60:DI:46:ASP:CB	60:DI:84:CYS:SG	2.43	1.06
79:Rb:111:MET:HE1	79:Rb:127:ARG:HG3	1.34	1.04
7:G:73:THR:HG22	17:R:114:ARG:HD2	1.39	1.03
68:DQ:15:LYS:O	68:DQ:15:LYS:CD	2.05	1.03
5:s3:95:GLY:HA2	5:s3:101:GLN:HE22	1.23	1.03
73:b:87:ARG:HE	73:b:92:ARG:HA	1.22	1.03
79:h:172:ALA:HB2	79:h:202:LEU:HD12	1.37	1.03
2:B:80:THR:HA	2:B:83:GLN:HG3	1.39	1.02
21:V:27:THR:HG22	21:V:88:LYS:HB2	1.39	1.01
28:DC:139:ARG:HH12	46:CN:165:SER:HA	1.25	1.01
1:A:701:U:H3	1:A:737:A:H61	1.07	1.00
9:I:82:GLU:O	9:I:86:GLN:HB3	1.60	1.00
60:DI:82:ALA:HA	60:DI:85:VAL:HG22	1.43	1.00
31:CD:101:VAL:HG12	31:CD:165:VAL:HG22	1.43	1.00
1:sR:568:G:H4'	24:d3:90:ASP:HB2	1.42	0.99
7:G:121:ILE:HG12	7:G:198:LEU:HD11	1.45	0.99
1:A:1795:U:H3'	73:b:5:ARG:HH21	1.28	0.99
25:Z:29:HIS:HB2	25:Z:32:ARG:HB3	1.40	0.99

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:732:G:O6	80:A:2142:OHX:N5	1.97	0.98
35:AR:1603:A:H61	58:CZ:71:THR:HG21	1.29	0.98
9:I:49:ILE:HG13	9:I:57:ALA:O	1.62	0.98
3:s1:144:ARG:HB2	3:s1:208:GLN:HB3	1.43	0.98
1:sR:482:U:H3	1:sR:505:A:H61	1.09	0.98
78:e1:132:LEU:HA	78:e1:141:CYS:HB2	1.46	0.98
75:d:19:THR:HG21	75:d:27:GLN:HG3	1.46	0.98
79:Rb:19:TRP:HB2	79:Rb:38:ARG:HG3	1.42	0.97
1:A:641:G:H1	1:A:693:U:H3	1.10	0.97
2:B:76:ILE:HG13	2:B:98:ILE:HB	1.46	0.96
20:U:28:LEU:HD22	20:U:55:TYR:HE2	1.28	0.96
64:AL:7:ASP:HB3	64:AL:10:GLN:HG2	1.44	0.96
62:DK:43:LEU:HG	62:DK:47:ILE:HD11	1.47	0.96
20:U:37:VAL:HG11	20:U:100:ILE:HD11	1.47	0.96
28:AB:21:ARG:NH2	35:1:640:U:OP1	1.99	0.95
3:C:27:LYS:HD2	3:C:49:ASN:HA	1.48	0.95
21:V:20:ILE:HD12	21:V:21:LYS:H	1.30	0.95
1:A:418:G:O2'	8:H:59:GLN:NE2	1.99	0.95
45:s:21:ILE:HD11	45:s:37:LEU:HD21	1.47	0.95
1:A:961:U:H5"	14:O:71:ILE:HD13	1.48	0.95
17:R:29:ILE:HG22	17:R:65:ILE:HB	1.46	0.95
1:A:186:C:H42	1:A:199:G:H1	1.12	0.95
45:s:7:ASN:HB3	45:s:10:ARG:HB3	1.46	0.95
19:c8:6:GLN:HA	72:d5:42:LEU:HD22	1.45	0.95
9:s7:77:LEU:HD23	9:s7:81:LEU:HD11	1.49	0.95
12:L:27:PHE:HA	12:L:40:LEU:HD11	1.48	0.94
75:d8:58:GLU:HB3	75:d8:61:ARG:HB2	1.49	0.94
21:d0:51:VAL:HG11	21:d0:94:GLU:H	1.28	0.94
48:CP:114:ARG:HG2	48:CP:137:PRO:HG3	1.47	0.94
1:A:927:C:H1'	15:P:125:SER:HB3	1.48	0.94
43:q:90:MET:HG2	43:q:181:VAL:HA	1.49	0.93
1:A:899:G:H4'	15:P:46:MET:HE1	1.49	0.93
2:B:9:LEU:HD21	2:B:54:TRP:CG	2.03	0.93
36:3:26:C:H5'	39:m:56:THR:HB	1.50	0.93
5:s3:158:ILE:HG13	5:s3:189:MET:HE1	1.51	0.93
1:sR:230:C:N3	1:sR:235:G:N2	2.17	0.93
64:DM:32:ASN:O	64:DM:33:LYS:HD3	1.68	0.93
24:Y:107:PHE:HE1	24:Y:123:LYS:HB3	1.31	0.93
56:6:86:ARG:HB2	56:6:92:PHE:CE1	2.04	0.93
74:d7:59:CYS:HG	74:d7:61:THR:HG1	1.04	0.93
7:G:118:LEU:HA	7:G:121:ILE:HD12	1.48	0.92

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:DI:98:GLN:HA	60:DI:101:VAL:HG22	1.51	0.92
68:DQ:100:LYS:HD3	68:DQ:100:LYS:H	1.34	0.92
1:A:720:G:H1'	1:A:721:U:H5"	1.51	0.92
80:1:4141:OHX:N5	41:o:217:PRO:HA	1.84	0.92
1:sR:68:A:OP1	8:s6:160:ARG:NH2	2.03	0.92
1:sR:1361:U:H2'	1:sR:1362:U:H3'	1.52	0.92
7:s5:72:HIS:HD2	7:s5:107:LYS:HG2	1.33	0.92
28:DC:139:ARG:NH1	46:CN:165:SER:HA	1.85	0.92
11:K:129:ILE:HG12	11:K:134:ILE:HD11	1.50	0.91
80:1:3572:OHX:N1	62:AJ:28:TYR:O	2.03	0.91
60:DI:82:ALA:O	60:DI:85:VAL:HG22	1.70	0.91
60:DI:79:SER:O	60:DI:80:ARG:HD2	1.71	0.91
79:h:201:THR:HB	79:h:242:SER:HA	1.53	0.91
74:d7:36:LYS:NZ	74:d7:40:CYS:SG	2.42	0.91
28:AB:47:LYS:HD3	51:y:157:PRO:HD3	1.52	0.91
9:s7:154:LEU:HD11	9:s7:183:PHE:HD2	1.34	0.91
35:AR:1213:G:H4'	53:CU:90:MET:HG3	1.50	0.91
46:t:56:PRO:HG3	46:t:74:GLY:O	1.70	0.91
48:v:110:ALA:HB1	48:v:113:LEU:HD23	1.50	0.91
35:AR:2213:A:H2'	35:AR:2214:A:C8	2.07	0.90
79:h:13:LEU:HB2	79:h:310:ILE:HG13	1.53	0.90
1:sR:819:G:N2	1:sR:852:C:O2	2.04	0.90
77:e0:50:VAL:HG12	77:e0:52:GLY:H	1.35	0.90
68:AP:77:CYS:SG	68:AP:79:THR:OG1	2.29	0.90
68:DQ:78:LYS:O	68:DQ:78:LYS:HD3	1.71	0.90
2:s0:146:LEU:HB3	2:s0:162:CYS:SG	2.12	0.90
3:s1:180:THR:HG22	3:s1:183:GLN:HG3	1.53	0.90
6:s4:200:ARG:HA	6:s4:206:ASP:HB3	1.54	0.90
35:AR:147:U:O4	42:CJ:183:LYS:NZ	2.05	0.90
1:sR:1251:U:H4'	78:e1:133:ALA:HB1	1.53	0.90
16:Q:61:ARG:NH2	16:Q:88:GLU:OE2	2.05	0.90
1:A:887:A:H1'	15:P:122:PRO:HB3	1.53	0.89
5:E:96:LEU:HD21	5:E:190:ARG:HB3	1.52	0.89
10:J:153:GLU:HB2	10:J:156:VAL:HG12	1.54	0.89
7:G:73:THR:HG22	17:R:114:ARG:CD	2.01	0.89
15:c4:103:ARG:HE	73:d6:49:ALA:HB2	1.38	0.89
79:Rb:228:LYS:HD3	5:s3:224:ASP:HB2	1.55	0.89
35:AR:3194:C:O2	35:AR:3197:G:N2	2.04	0.89
79:Rb:64:HIS:CE1	79:Rb:84:SER:HB3	2.06	0.89
30:DE:13:LYS:HB3	30:DE:100:ILE:HG22	1.53	0.89
1:sR:1615:C:H2'	7:s5:81:ARG:HG3	1.54	0.89

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:56:ILE:HA	4:D:61:LEU:HD23	1.53	0.89
13:M:43:LYS:H	13:M:141:LYS:HZ1	1.18	0.89
1:A:40:A:O2'	80:A:2136:OHX:N3	2.06	0.89
35:1:965:A:H5"	46:t:4:SER:HB3	1.54	0.89
44:r:76:MET:O	44:r:80:SER:HB2	1.73	0.89
79:Rb:220:ILE:HG22	79:Rb:234:LEU:HB2	1.55	0.89
3:C:65:VAL:HG23	3:C:86:LEU:H	1.37	0.89
4:D:80:VAL:HA	4:D:102:VAL:HG22	1.55	0.89
79:h:24:ALA:HB2	79:h:72:THR:H	1.36	0.89
13:c1:21:ASN:HD21	13:c1:31:THR:HA	1.38	0.89
25:d4:45:ALA:HA	25:d4:50:ALA:HB3	1.53	0.89
4:D:68:ILE:O	4:D:72:LEU:HD12	1.73	0.88
45:CM:81:GLU:OE2	45:CM:89:TYR:OH	1.90	0.88
56:CX:133:SER:O	80:sR:1902:OHX:N3	2.06	0.88
73:b:79:ILE:HA	73:b:84:VAL:HG11	1.54	0.88
1:sR:1553:G:O6	16:c5:43:ARG:NH1	2.06	0.88
23:X:6:VAL:HG23	23:X:29:PRO:HD2	1.56	0.88
46:t:74:GLY:HA3	46:t:98:ASP:HB2	1.55	0.88
79:Rb:68:VAL:HA	79:Rb:84:SER:HB2	1.54	0.88
55:CW:22:PRO:HB2	55:CW:28:PHE:HB2	1.55	0.88
1:A:584:C:H1'	77:f:18:THR:HG21	1.56	0.88
69:AQ:44:LYS:NZ	69:AQ:59:CYS:SG	2.45	0.88
79:Rb:262:VAL:HG23	79:Rb:271:VAL:HB	1.56	0.88
1:A:953:G:H5'	14:O:114:ARG:HD3	1.55	0.88
5:E:217:ILE:HA	79:h:196:ASN:HD21	1.38	0.88
19:T:6:GLN:HA	72:a:42:LEU:HG	1.53	0.88
46:CN:185:LYS:HD3	46:CN:188:ARG:HE	1.38	0.88
72:d5:84:GLU:HB2	72:d5:89:ILE:HD11	1.55	0.88
4:s2:142:GLY:N	4:s2:153:SER:O	2.05	0.88
18:S:41:ILE:HG21	18:S:47:ARG:HB3	1.54	0.88
26:DB:27:LYS:HB2	26:DB:42:LEU:HB2	1.53	0.88
1:A:1610:G:H4'	7:G:98:MET:HE1	1.56	0.88
32:AE:10:ARG:HD3	32:AE:108:VAL:HG22	1.56	0.88
8:H:114:VAL:HG13	8:H:115:LYS:HD2	1.54	0.87
35:1:2674:A:H5"	45:s:105:GLY:HA3	1.56	0.87
33:k:92:TYR:HB2	33:k:157:VAL:HG22	1.57	0.87
15:c4:20:TYR:HB3	15:c4:27:PHE:HB2	1.56	0.87
3:s1:48:VAL:HG21	3:s1:61:LEU:HB3	1.55	0.87
9:I:154:LEU:HD21	9:I:183:PHE:HD2	1.39	0.87
79:h:211:ILE:HD11	79:h:225:LEU:HB2	1.55	0.87
74:d7:31:TYR:OH	74:d7:70:LYS:NZ	2.07	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:486:G:H22	1:sR:501:U:H3	1.18	0.87
31:CD:71:LEU:HD13	35:AR:1651:U:H5'	1.56	0.87
2:B:26:ALA:HB3	2:B:149:LEU:HB2	1.57	0.87
3:C:57:ALA:HB1	3:C:61:LEU:HD21	1.56	0.87
9:I:134:GLU:OE1	14:O:21:ASN:ND2	2.08	0.87
17:R:55:VAL:HG21	17:R:105:LEU:HD23	1.56	0.87
52:z:155:LEU:HA	52:z:158:GLU:HG2	1.56	0.87
35:1:2213:A:H2'	35:1:2214:A:C8	2.09	0.86
9:s7:73:VAL:HG13	9:s7:74:GLN:H	1.39	0.86
74:d7:36:LYS:NZ	74:d7:40:CYS:C	2.33	0.86
35:1:3042:U:OP2	35:1:3092:C:N4	2.06	0.86
1:sR:868:G:H1	1:sR:960:U:H3	1.22	0.86
26:DB:95:VAL:HG11	26:DB:113:VAL:HG21	1.54	0.86
35:AR:1095:U:H4'	35:AR:1096:U:H5"	1.57	0.86
80:AR:3579:OHX:N5	52:CT:14:VAL:O	2.08	0.86
6:s4:248:ILE:HG13	11:s9:71:PHE:HE2	1.39	0.86
3:C:23:PRO:HA	3:C:26:ARG:HG3	1.56	0.86
47:CO:16:GLU:HB3	53:CU:149:LYS:HB3	1.55	0.86
72:a:59:TYR:HD1	72:a:60:VAL:H	1.18	0.86
79:h:155:ARG:HB2	79:h:170:ILE:HD11	1.56	0.86
35:AR:55:G:OP1	63:DL:43:LYS:NZ	2.09	0.86
30:DE:30:THR:HG23	30:DE:91:SER:HB2	1.57	0.86
33:k:60:LEU:HD21	33:k:62:ARG:HB2	1.56	0.86
1:sR:357:G:OP2	80:sR:1931:OHX:N3	2.09	0.86
5:s3:95:GLY:HA2	5:s3:101:GLN:NE2	1.89	0.86
21:d0:23:ARG:HB3	21:d0:117:VAL:HG12	1.57	0.86
46:t:180:ARG:HG3	62:AJ:11:LEU:HD11	1.56	0.86
78:g:144:CYS:HB3	78:g:147:VAL:HB	1.58	0.86
1:sR:235:G:H2'	1:sR:236:A:C8	2.11	0.86
1:sR:1672:G:H2'	1:sR:1673:G:C8	2.09	0.86
1:A:1498:G:H5"	20:U:72:GLY:HA3	1.55	0.86
2:B:28:ASN:HA	2:B:46:HIS:HE1	1.41	0.86
5:E:7:LYS:HD3	21:V:27:THR:HG21	1.55	0.86
14:O:28:LEU:HD12	14:O:32:SER:HB3	1.57	0.86
1:sR:1595:U:H3	1:sR:1600:A:H2	1.24	0.86
55:5:54:VAL:HG12	55:5:67:SER:HB2	1.58	0.85
35:AR:3230:G:H4'	47:CO:132:LYS:HD3	1.58	0.85
1:sR:894:U:H2'	1:sR:895:G:C8	2.10	0.85
1:A:1443:U:O4	80:A:2143:OHX:N4	2.07	0.85
1:A:1585:U:H3	1:A:1611:A:H2	1.25	0.85
76:e:10:HIS:O	76:e:12:ARG:NH1	2.08	0.85

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1688:U:H3	1:sR:1713:G:H1	1.22	0.85
21:d0:21:LYS:HA	21:d0:94:GLU:HA	1.57	0.85
35:AR:357:A:H1'	38:CF:80:GLY:HA3	1.58	0.85
60:DI:44:CYS:SG	60:DI:80:ARG:HA	2.16	0.85
79:h:33:LEU:O	79:h:44:SER:HA	1.76	0.85
1:A:211:U:H5"	13:M:20:PHE:HD2	1.41	0.85
35:AR:2261:G:O2'	35:AR:2263:C:N4	2.09	0.85
70:sM:61:ILE:HG21	19:c8:120:ARG:HG3	1.59	0.85
1:A:1445:G:N2	78:g:88:PRO:O	2.09	0.85
11:K:125:ALA:O	11:K:129:ILE:HG13	1.76	0.85
7:s5:136:ALA:HA	7:s5:202:ALA:HA	1.57	0.85
12:L:60:SER:HB3	12:L:65:TYR:HE2	1.41	0.85
1:sR:1140:G:OP2	80:sR:1928:OHX:N3	2.09	0.85
15:P:28:VAL:HB	15:P:43:THR:HG21	1.59	0.85
25:Z:5:VAL:HG13	25:Z:29:HIS:HB3	1.56	0.85
1:sR:1222:C:H42	1:sR:1261:G:H1	1.23	0.85
46:t:129:ASN:HB2	46:t:131:LYS:HZ2	1.42	0.85
48:v:106:VAL:HG11	48:v:132:VAL:HG11	1.58	0.85
35:1:1789:G:O6	80:1:4166:OHX:N3	2.09	0.85
35:1:1806:A:OP2	80:1:4146:OHX:N5	2.10	0.85
52:CT:167:ARG:HH21	1:sR:814:A:H5'	1.42	0.85
35:AR:2444:C:N3	35:AR:2503:G:N2	2.24	0.85
4:D:229:LEU:HD11	22:W:1:MET:SD	2.17	0.84
35:AR:3353:G:H1'	35:AR:3356:G:H5'	1.56	0.84
1:A:1672:G:H2'	1:A:1673:G:C8	2.12	0.84
19:T:47:CYS:HB3	19:T:54:LEU:HD21	1.59	0.84
33:k:76:VAL:HG12	33:k:325:LYS:HA	1.59	0.84
1:A:702:G:O6	1:A:737:A:N6	2.09	0.84
38:l:122:THR:HG22	38:l:235:LEU:HB2	1.59	0.84
75:d:9:LEU:HD21	75:d:34:GLU:HB3	1.57	0.84
75:d:31:GLU:OE2	75:d:36:THR:OG1	1.94	0.84
8:s6:166:GLU:OE2	8:s6:167:LYS:N	2.11	0.84
19:c8:46:VAL:HG21	19:c8:73:MET:HG2	1.57	0.84
19:c8:83:ALA:O	19:c8:89:GLN:NE2	2.11	0.84
5:E:137:VAL:HG12	5:E:185:LYS:HB2	1.58	0.84
35:AR:3159:C:OP1	80:AR:3668:OHX:N4	2.11	0.84
18:c7:5:ARG:HB2	18:c7:10:LYS:HE2	1.59	0.84
28:DC:21:ARG:NH2	35:AR:640:U:OP1	2.11	0.84
35:1:155:G:H1'	62:AJ:26:ILE:HD11	1.57	0.84
43:q:110:LYS:O	43:q:128:VAL:HG12	1.78	0.84
47:CO:48:GLY:HA3	47:CO:53:VAL:HG13	1.59	0.84

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:AE:48:ASP:OD1	32:AE:50:ARG:NH1	2.11	0.84
3:s1:74:GLN:HE21	3:s1:189:ILE:HG21	1.41	0.84
35:AR:1789:G:O6	80:AR:3676:OHX:N1	2.11	0.84
1:sR:1680:G:O6	80:sR:2185:OHX:N2	2.11	0.84
2:B:119:ARG:NH1	4:D:240:LEU:O	2.11	0.83
17:c6:82:ARG:HH12	17:c6:114:ARG:HB2	1.42	0.83
60:DI:82:ALA:CA	60:DI:85:VAL:HG22	2.08	0.83
73:b:4:LYS:HE2	73:b:5:ARG:HH12	1.43	0.83
11:s9:77:ILE:HG23	11:s9:86:LEU:HD23	1.59	0.83
37:4:95:G:OP2	63:AK:72:ARG:NH1	2.11	0.83
60:DI:81:CYS:O	60:DI:83:ASN:N	2.10	0.83
35:1:1661:G:H2'	35:1:1662:G:C8	2.13	0.83
68:AP:71:ARG:NH2	68:AP:80:ARG:NH2	1.85	0.83
5:s3:223:LYS:HE3	5:s3:225:TYR:HE1	1.42	0.83
35:AR:2897:A:H5"	66:DO:125:LYS:HG3	1.60	0.83
3:C:164:ILE:HG22	3:C:168:ILE:HD11	1.61	0.83
25:Z:64:PHE:HD1	25:Z:65:GLY:H	1.26	0.83
3:C:62:LYS:HD2	3:C:90:GLU:HA	1.60	0.83
3:C:193:ILE:HA	3:C:196:GLU:OE1	1.78	0.83
42:CJ:157:VAL:O	42:CJ:160:ILE:HD12	1.79	0.83
3:s1:207:LEU:O	3:s1:210:ILE:HD11	1.77	0.83
4:s2:53:ILE:HG13	4:s2:72:LEU:HB3	1.61	0.83
9:s7:63:PRO:HB2	9:s7:65:PRO:HD2	1.61	0.83
3:C:33:LYS:HG2	3:C:42:ASN:HA	1.59	0.83
10:J:39:GLY:HA2	10:J:61:GLU:HB3	1.60	0.83
10:J:117:TYR:CD2	10:J:146:ARG:HB3	2.13	0.83
46:t:5:LYS:O	46:t:7:LEU:HG	1.78	0.83
35:AR:161:G:N2	35:AR:260:C:O2	2.09	0.83
44:CL:174:THR:HG23	44:CL:176:LEU:H	1.42	0.83
1:sR:1699:G:O2'	1:sR:1702:A:N6	2.12	0.83
11:K:108:ARG:NH1	11:K:110:GLN:OE1	2.10	0.83
35:AR:1661:G:H2'	35:AR:1662:G:C8	2.13	0.83
2:B:65:ALA:HB2	2:B:181:VAL:HG23	1.59	0.83
35:1:240:U:H4'	35:1:241:G:H5'	1.60	0.83
35:AR:2599:U:OP1	48:CP:70:ASN:ND2	2.11	0.83
78:g:110:ALA:H	78:g:113:LYS:HG3	1.43	0.83
10:s8:36:THR:OG1	10:s8:96:LEU:O	1.97	0.83
35:1:272:G:OP2	80:1:3530:OHX:N3	2.12	0.82
68:DQ:48:SER:O	80:DQ:203:OHX:N5	2.12	0.82
1:sR:1769:U:OP2	80:sR:1998:OHX:N2	2.12	0.82
42:CJ:156:ASP:HB3	42:CJ:183:LYS:HE3	1.61	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:40:A:O2'	80:sR:1964:OHX:N1	2.11	0.82
8:s6:26:VAL:HG11	8:s6:40:ALA:HB1	1.61	0.82
22:W:74:GLN:HG3	22:W:79:LEU:HB2	1.62	0.82
1:sR:895:G:H1	1:sR:917:U:H3	1.27	0.82
2:s0:41:ARG:NH1	2:s0:42:PRO:O	2.12	0.82
1:A:69:G:H1	1:A:82:U:H3	1.27	0.82
28:DC:139:ARG:HH12	46:CN:165:SER:CA	1.93	0.82
35:1:2169:G:O6	80:1:4132:OHX:N5	2.11	0.82
37:4:43:A:OP1	80:4:215:OHX:N2	2.12	0.82
70:i:59:GLY:O	70:i:63:ASP:HB3	1.79	0.82
41:CI:143:THR:HG22	41:CI:241:LYS:HE2	1.61	0.82
56:CX:126:TRP:HB2	56:CX:129:VAL:HG12	1.61	0.82
79:h:153:GLN:O	79:h:172:ALA:HB3	1.80	0.82
1:sR:647:G:N2	1:sR:687:G:H22	1.78	0.82
3:C:70:LEU:HD22	3:C:79:HIS:HB3	1.61	0.82
8:H:12:SER:HB3	8:H:124:LEU:HD22	1.61	0.82
46:t:48:PRO:HA	46:t:137:GLN:HB2	1.59	0.82
51:CS:180:ARG:O	80:CS:202:OHX:N5	2.12	0.82
80:sR:2023:OHX:N4	11:s9:8:TYR:O	2.11	0.82
16:c5:23:GLU:HA	16:c5:26:LEU:HD23	1.61	0.82
35:AR:549:U:H2'	35:AR:550:A:H8	1.43	0.82
60:DI:46:ASP:HB2	60:DI:84:CYS:SG	2.17	0.82
15:P:46:MET:SD	15:P:46:MET:N	2.53	0.82
35:AR:1717:U:H2'	35:AR:1718:G:C8	2.15	0.82
1:A:66:U:H1'	8:H:160:ARG:HH21	1.45	0.82
30:DE:20:SER:HB2	30:DE:96:GLY:HA3	1.60	0.82
35:AR:655:C:H2'	35:AR:656:A:H8	1.45	0.82
71:p0:91:GLU:HB3	71:p0:92:PRO:CD	2.09	0.82
1:sR:1680:G:O6	80:sR:2185:OHX:N4	2.13	0.82
2:B:79:ARG:HH22	2:B:164:ASN:HB2	1.45	0.81
29:DD:23:LYS:HD3	29:DD:24:PRO:HD2	1.61	0.81
35:1:1861:G:O6	80:1:4139:OHX:N3	2.13	0.81
35:1:2817:A:N1	87:1:4203:HOH:O	2.13	0.81
79:h:19:TRP:HB2	79:h:38:ARG:HG3	1.61	0.81
6:s4:129:VAL:HG23	6:s4:139:VAL:HG12	1.61	0.81
1:A:1280:C:H2'	1:A:1281:G:H8	1.44	0.81
3:C:144:ARG:HB2	3:C:208:GLN:HB3	1.60	0.81
35:AR:2997:G:N7	80:AR:3669:OHX:N4	2.28	0.81
71:p0:45:LEU:HG	71:p0:49:ALA:HB3	1.60	0.81
16:c5:97:TYR:HD1	16:c5:99:GLY:H	1.27	0.81
75:d8:56:LEU:HD13	75:d8:58:GLU:H	1.45	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:992:A:O2'	1:A:1785:U:O2	1.98	0.81
5:E:64:ARG:HE	12:L:90:THR:CB	1.93	0.81
15:P:81:VAL:HG22	15:P:115:ILE:HD12	1.62	0.81
24:Y:69:ARG:HD2	24:Y:117:ILE:HG12	1.61	0.81
24:Y:131:SER:HB3	24:Y:134:ALA:HB3	1.62	0.81
35:1:1808:G:O6	80:1:4146:OHX:N4	2.14	0.81
35:1:2982:A:OP1	80:1:3637:OHX:N3	2.14	0.81
38:l:16:THR:HG22	38:l:18:ASN:H	1.44	0.81
64:DM:17:ARG:NH1	64:DM:19:ASP:OD2	2.12	0.81
77:f:39:LEU:HA	77:f:42:ARG:HG2	1.61	0.81
79:h:112:SER:HB3	79:h:154:VAL:H	1.45	0.81
1:sR:1611:A:OP1	7:s5:107:LYS:NZ	2.14	0.81
79:Rb:5:GLU:HG2	79:Rb:317:THR:HG22	1.60	0.81
78:e1:134:ASN:O	78:e1:139:LEU:HA	1.79	0.81
27:DA:73:VAL:HA	27:DA:80:VAL:HG23	1.59	0.81
31:CD:82:VAL:HA	31:CD:86:GLN:HE22	1.46	0.81
35:1:1854:C:OP2	80:1:3533:OHX:N5	2.13	0.81
35:1:2120:A:OP2	80:1:3510:OHX:N2	2.13	0.81
35:AR:3192:U:O4	80:AR:3640:OHX:N6	2.14	0.81
17:c6:29:ILE:HD12	17:c6:65:ILE:HG12	1.60	0.81
1:A:1015:U:OP1	80:A:2122:OHX:N1	2.13	0.81
35:1:275:U:O4	80:1:4149:OHX:N5	2.13	0.81
35:1:3230:G:H4'	47:u:132:LYS:HD2	1.60	0.81
35:AR:2605:G:N7	80:AR:3518:OHX:N4	2.29	0.81
38:CF:295:ILE:HD11	51:CS:129:VAL:HA	1.59	0.81
53:CU:8:GLN:HE21	53:CU:26:ARG:HE	1.29	0.81
60:DI:49:SER:OG	60:DI:81:CYS:SG	2.34	0.81
9:I:25:VAL:HA	9:I:28:GLU:HB3	1.62	0.81
26:AA:25:ILE:HA	26:AA:43:VAL:HG12	1.62	0.81
42:CJ:133:LYS:HE3	42:CJ:201:THR:HG21	1.63	0.81
1:sR:93:A:H1'	6:s4:3:ARG:HB3	1.63	0.81
3:s1:35:PRO:HB3	3:s1:231:LEU:HD21	1.63	0.81
13:c1:109:VAL:HG12	13:c1:137:PHE:HB2	1.63	0.81
21:V:57:ARG:HG2	21:V:89:ARG:HD3	1.63	0.81
26:DB:10:VAL:HG12	26:DB:24:VAL:HG22	1.63	0.81
53:0:135:VAL:O	53:0:141:LYS:NZ	2.14	0.81
79:h:69:GLN:HE21	79:h:110:VAL:HG23	1.45	0.81
1:A:513:U:H2'	1:A:514:G:C8	2.16	0.81
15:P:85:ALA:H	15:P:119:THR:HG22	1.44	0.81
22:W:41:GLU:O	22:W:44:ARG:NH1	2.13	0.81
45:s:32:ARG:HD2	45:s:120:ILE:HA	1.62	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:833:U:O4	80:sR:1957:OHX:N5	2.14	0.81
3:C:109:LYS:O	3:C:113:MET:HG3	1.80	0.81
7:G:63:GLN:NE2	7:G:66:GLN:OE1	2.14	0.81
9:I:67:LEU:HG	9:I:71:HIS:CE1	2.15	0.81
79:h:236:ALA:O	79:h:261:LYS:NZ	2.14	0.81
11:K:83:VAL:O	11:K:107:ARG:NH2	2.14	0.81
79:Rb:300:THR:HA	79:Rb:314:GLN:HB2	1.63	0.81
9:I:76:LYS:HD3	9:I:79:ARG:HH22	1.46	0.80
35:1:1124:U:O4	80:1:3560:OHX:N5	2.14	0.80
35:1:1493:G:O6	65:AM:2:ALA:N	2.14	0.80
47:CO:66:THR:HG22	47:CO:68:LEU:H	1.46	0.80
10:s8:36:THR:HG21	10:s8:173:PRO:HB2	1.61	0.80
17:c6:110:THR:HG22	17:c6:117:LEU:HD21	1.61	0.80
1:A:1359:C:H5"	20:U:134:ARG:HE	1.45	0.80
35:1:2403:G:H2'	87:1:4201:HOH:O	1.81	0.80
68:DQ:78:LYS:HD3	68:DQ:78:LYS:C	2.06	0.80
1:A:373:G:N7	80:A:1978:OHX:N6	2.29	0.80
1:A:930:A:OP1	73:b:32:LYS:NZ	2.14	0.80
69:AQ:49:ARG:HD3	69:AQ:52:ALA:HA	1.61	0.80
64:DM:64:LYS:NZ	64:DM:68:SER:HB2	1.96	0.80
79:h:302:PHE:HA	79:h:312:VAL:HG12	1.63	0.80
1:sR:422:G:OP1	80:sR:1913:OHX:N1	2.14	0.80
1:sR:1097:U:H4'	1:sR:1098:U:H5'	1.62	0.80
1:A:320:U:H3'	1:A:321:C:H5"	1.63	0.80
4:D:156:THR:HB	23:X:95:PRO:HB3	1.62	0.80
21:V:50:LEU:O	21:V:52:LYS:NZ	2.14	0.80
35:AR:1861:G:O6	80:AR:3556:OHX:N5	2.13	0.80
58:CZ:68:THR:HA	58:CZ:73:MET:HE3	1.63	0.80
19:T:123:ARG:HB2	19:T:133:VAL:HG23	1.62	0.80
25:Z:86:GLU:HB3	25:Z:91:LEU:HD11	1.62	0.80
35:1:2870:C:O2'	87:1:4201:HOH:O	1.99	0.80
38:l:12:THR:HA	38:l:171:ALA:HB1	1.64	0.80
1:A:487:G:O6	1:A:498:G:N1	2.14	0.80
3:C:83:LYS:HE3	15:P:116:GLU:OE1	1.82	0.80
79:h:80:ALA:HB3	79:h:92:TRP:HB2	1.63	0.80
17:c6:115:THR:OG1	17:c6:118:ILE:O	1.97	0.80
1:A:885:G:H21	15:P:123:SER:HB2	1.44	0.80
1:A:1150:G:O6	80:A:2152:OHX:N4	2.15	0.80
80:4:236:OHX:N6	63:AK:60:GLY:O	2.14	0.80
39:m:40:HIS:HB3	39:m:43:LYS:HD2	1.62	0.80
44:r:190:VAL:HG22	44:r:197:VAL:HG11	1.63	0.80

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:549:U:H2'	35:AR:550:A:C8	2.17	0.80
35:AR:1940:G:H21	35:AR:3362:A:H8	1.27	0.80
4:s2:39:THR:HG23	4:s2:42:GLY:H	1.46	0.80
16:Q:128:HIS:H	70:i:71:ASN:HD21	1.30	0.80
20:U:63:ARG:HE	20:U:67:MET:HE1	1.46	0.80
23:X:40:VAL:HG11	23:X:103:ILE:HD12	1.64	0.80
35:1:1938:U:O4	80:1:3437:OHX:N2	2.14	0.80
35:AR:187:A:OP2	80:AR:3411:OHX:N2	2.14	0.80
35:AR:1861:G:OP2	80:AR:3496:OHX:N4	2.15	0.80
35:1:430:U:OP1	80:1:4180:OHX:N5	2.14	0.80
35:1:1231:A:OP2	80:1:3576:OHX:N6	2.15	0.80
35:1:2997:G:N7	87:1:4205:HOH:O	2.15	0.80
1:sR:1795:U:O2	73:d6:10:ARG:NE	2.13	0.80
35:1:3214:U:OP2	47:u:128:ARG:NH2	2.13	0.80
46:t:75:PHE:H	46:t:98:ASP:H	1.28	0.80
73:d6:7:SER:OG	73:d6:9:GLY:O	2.00	0.80
9:I:111:LYS:O	9:I:112:ARG:HB2	1.79	0.79
20:U:11:ALA:HA	20:U:63:ARG:HH12	1.47	0.79
80:1:4132:OHX:N6	42:p:54:GLU:OE1	2.15	0.79
35:AR:3053:G:OP2	80:AR:4234:OHX:N4	2.15	0.79
23:d2:50:PHE:HB3	23:d2:63:VAL:HG13	1.61	0.79
14:O:118:ILE:O	14:O:122:ILE:HG13	1.83	0.79
20:U:129:GLN:HA	20:U:132:LEU:HG	1.64	0.79
35:1:1257:C:H42	35:1:1261:G:H22	1.30	0.79
62:DK:28:TYR:O	80:DK:201:OHX:N2	2.15	0.79
69:DR:46:THR:HB	69:DR:58:SER:HB3	1.64	0.79
20:c9:53:TRP:HH2	20:c9:100:ILE:HG21	1.45	0.79
35:1:2794:G:N7	80:1:4135:OHX:N6	2.30	0.79
35:AR:1778:G:O2'	35:AR:1780:G:OP2	2.00	0.79
46:CN:157:ARG:HG2	46:CN:158:ALA:H	1.48	0.79
35:1:978:G:O2'	35:1:979:U:O2	2.01	0.79
35:1:3031:G:O6	80:1:3565:OHX:N4	2.15	0.79
72:a:59:TYR:HD1	72:a:60:VAL:N	1.80	0.79
1:sR:1572:G:H1'	7:s5:185:ARG:HH12	1.47	0.79
80:AR:3412:OHX:N4	54:CV:13:TYR:O	2.15	0.79
5:s3:167:PHE:HA	5:s3:190:ARG:HH11	1.47	0.79
79:Rb:171:SER:HB2	79:Rb:181:TRP:HE1	1.47	0.79
1:A:808:U:H2'	1:A:809:A:C8	2.18	0.79
1:A:1474:G:H2'	1:A:1475:A:C8	2.17	0.79
7:G:94:THR:HG23	7:G:114:ILE:HD11	1.65	0.79
11:K:107:ARG:NH2	11:K:148:VAL:O	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4:155:A:OP1	42:p:185:ARG:NH1	2.16	0.79
35:AR:2197:C:OP2	80:AR:4227:OHX:N3	2.16	0.79
35:AR:2273:G:O6	80:AR:3479:OHX:N2	2.15	0.79
35:AR:2842:U:OP1	35:AR:2844:C:N4	2.16	0.79
68:DQ:22:GLN:O	68:DQ:75:VAL:HG22	1.83	0.79
1:sR:235:G:H2'	1:sR:236:A:H8	1.46	0.79
1:sR:578:U:O2	80:sR:2007:OHX:N3	2.16	0.79
11:s9:129:ILE:HG22	11:s9:142:ASN:HA	1.64	0.79
8:H:98:ARG:NH1	8:H:101:ILE:O	2.13	0.79
15:P:31:THR:OG1	15:P:37:GLU:O	1.99	0.79
18:S:78:ARG:HD3	18:S:78:ARG:H	1.47	0.79
35:AR:2354:C:N4	87:AR:4301:HOH:O	2.13	0.79
20:U:101:ASN:HA	20:U:104:VAL:HG12	1.65	0.79
38:l:62:ALA:HB3	38:l:90:PHE:HE1	1.47	0.79
51:y:98:LYS:HD3	51:y:98:LYS:O	1.83	0.79
35:AR:799:G:O6	80:AR:3531:OHX:N4	2.16	0.79
1:sR:74:U:O2	80:sR:2034:OHX:N2	2.16	0.79
1:A:1769:U:OP2	80:A:1972:OHX:N1	2.16	0.78
7:G:121:ILE:HG23	7:G:199:ILE:HG22	1.63	0.78
35:1:286:U:O3'	48:v:179:LYS:NZ	2.16	0.78
44:CL:220:GLN:O	80:CL:301:OHX:N2	2.16	0.78
16:Q:71:GLU:N	16:Q:71:GLU:OE1	2.15	0.78
28:DC:146:GLU:OE2	46:CN:157:ARG:NH1	2.15	0.78
53:0:91:TYR:O	53:0:137:ARG:NH1	2.16	0.78
36:AS:37:G:N2	36:AS:43:U:O4	2.15	0.78
1:sR:218:A:H2'	1:sR:219:A:H5"	1.65	0.78
79:Rb:173:GLY:H	79:Rb:199:ILE:HD11	1.48	0.78
7:G:144:GLU:OE1	75:d:57:MET:HG3	1.83	0.78
35:1:655:C:H2'	35:1:656:A:H8	1.48	0.78
45:s:39:GLN:OE1	45:s:114:ILE:HD11	1.83	0.78
35:AR:2982:A:OP1	80:AR:3695:OHX:N6	2.17	0.78
62:DK:90:MET:HA	62:DK:93:ILE:HG22	1.65	0.78
3:C:133:TYR:HB2	3:C:181:LEU:HD11	1.64	0.78
43:q:41:ILE:HD13	43:q:71:VAL:HG22	1.65	0.78
2:s0:74:VAL:HG22	2:s0:96:THR:HG23	1.63	0.78
1:A:595:G:OP2	80:A:2134:OHX:N5	2.16	0.78
33:CE:292:ALA:HA	33:CE:303:LYS:H	1.46	0.78
80:AR:3504:OHX:N1	41:CI:217:PRO:O	2.17	0.78
37:AT:106:C:O2'	80:AT:215:OHX:N5	2.16	0.78
68:DQ:57:VAL:HG23	68:DQ:59:HIS:CE1	2.19	0.78
79:h:117:LYS:HE2	79:h:118:LYS:HG3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1588:G:H1	1:sR:1608:U:H3	0.83	0.78
3:C:48:VAL:HG11	3:C:61:LEU:HD23	1.66	0.78
6:F:122:LYS:HG2	6:F:164:LEU:HD11	1.64	0.78
79:h:278:PHE:O	80:h:401:OHX:N1	2.17	0.78
1:sR:1726:G:O6	80:sR:1916[B]:OHX:N2	2.17	0.78
74:d7:36:LYS:HZ1	74:d7:40:CYS:C	1.89	0.78
21:V:99:ILE:HD12	21:V:102:ARG:HB3	1.65	0.78
53:0:77:VAL:HG21	53:0:94:ILE:HD12	1.66	0.78
68:AP:65:THR:OG1	68:AP:87:ARG:HG2	1.84	0.78
1:sR:568:G:H4'	24:d3:90:ASP:CB	2.14	0.78
79:Rb:136:ILE:HD12	79:Rb:137:LYS:HD3	1.66	0.78
73:d6:12:LYS:NZ	73:d6:15:ARG:O	2.15	0.78
35:1:651:G:O2'	35:1:1435:A:OP1	2.02	0.78
35:1:1236:G:N2	35:1:1272:C:OP1	2.17	0.78
68:AP:99:GLN:HB2	68:AP:102:GLN:HG2	1.65	0.78
38:CF:138:ARG:HH11	38:CF:138:ARG:HG2	1.49	0.78
39:CG:111:GLN:HA	39:CG:116:ASP:HB3	1.65	0.78
58:CZ:46:TYR:HB3	61:DJ:75:TYR:O	1.83	0.78
71:p0:93:LEU:HD12	71:p0:94:THR:H	1.49	0.78
7:s5:206:SER:H	7:s5:211:ILE:HD11	1.49	0.78
14:c3:101:HIS:HA	14:c3:104:ARG:HH21	1.49	0.78
15:c4:103:ARG:NE	73:d6:49:ALA:HB2	1.97	0.78
1:A:12:U:H2'	1:A:13:C:C6	2.19	0.78
4:D:79:GLU:HG2	4:D:186:LYS:HD3	1.65	0.78
19:T:65:GLU:HA	19:T:68:ARG:HD3	1.65	0.78
42:p:78:PHE:O	42:p:79:GLN:HG3	1.83	0.78
68:AP:35:LEU:HD12	68:AP:36:PHE:H	1.48	0.78
35:AR:1298:C:OP2	80:AR:3516:OHX:N2	2.17	0.78
1:sR:1257:U:O2'	1:sR:1258:U:O2	2.00	0.78
1:sR:1615:C:OP1	7:s5:81:ARG:NH2	2.16	0.78
1:A:927:C:O2'	15:P:124:ASP:O	2.02	0.78
3:C:100:PHE:CE1	3:C:181:LEU:HD23	2.19	0.78
20:U:30:VAL:HG12	20:U:32:GLY:H	1.49	0.78
35:1:3361:G:O6	80:1:3629:OHX:N3	2.16	0.78
37:4:108:C:O2	37:4:114:G:N2	2.16	0.78
35:AR:3103:A:OP2	80:AR:3652:OHX:N4	2.17	0.78
58:CZ:115:ARG:HD2	58:CZ:121:LYS:HB2	1.65	0.78
22:d1:79:LEU:HD13	22:d1:82:VAL:HG21	1.64	0.78
1:A:470:A:OP2	80:A:2134:OHX:N4	2.17	0.77
1:A:1073:G:H2'	1:A:1074:G:H5"	1.65	0.77
20:U:54:PHE:HE1	20:U:104:VAL:HG23	1.49	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:S:78:ARG:HA	18:S:81:LYS:HB3	1.66	0.77
36:AS:62:U:H5"	39:CG:277:LEU:HD12	1.64	0.77
48:CP:118:SER:HB3	48:CP:132:VAL:HG23	1.64	0.77
4:s2:44:LEU:HD11	4:s2:247:ALA:HB2	1.65	0.77
1:A:703:G:H2'	1:A:704:C:H5'	1.65	0.77
28:DC:48:TYR:O	28:DC:49:HIS:ND1	2.16	0.77
31:CD:70:ARG:NH1	35:AR:2522:G:O6	2.15	0.77
35:1:818:C:OP1	63:AK:10:LYS:NZ	2.17	0.77
35:1:2314:U:O4	80:1:4125:OHX:N2	2.18	0.77
79:h:149:ASP:HB2	79:h:175:ASP:HB3	1.65	0.77
79:Rb:197:SER:HB3	79:Rb:217:ASP:HB3	1.66	0.77
25:d4:57:VAL:HG12	25:d4:73:GLY:HA3	1.65	0.77
4:D:45:VAL:HG21	4:D:68:ILE:HD13	1.66	0.77
29:AC:17:HIS:O	80:AC:102:OHX:N2	2.17	0.77
35:AR:742:G:N7	80:AR:3505:OHX:N6	2.33	0.77
35:AR:1554:U:H4'	35:AR:1555:U:H5'	1.67	0.77
35:AR:3275:U:C4	59:DH:64:ILE:HD11	2.18	0.77
1:sR:1318:G:N7	80:sR:2016:OHX:N5	2.32	0.77
1:sR:1665:U:O4	80:sR:1979:OHX:N6	2.17	0.77
1:A:583:C:OP1	80:A:2116:OHX:N4	2.17	0.77
1:A:992:A:OP1	80:A:2119:OHX:N6	2.18	0.77
1:A:1291:G:H5'	4:D:119:LYS:HE3	1.66	0.77
35:1:1947:G:H1	35:1:2101:C:H42	1.31	0.77
33:k:136:LYS:O	33:k:139:GLN:NE2	2.18	0.77
1:sR:960:U:H1'	14:c3:52:VAL:HG22	1.66	0.77
3:s1:179:SER:OG	3:s1:187:LYS:NZ	2.16	0.77
11:s9:141:VAL:HG11	11:s9:146:PHE:HD2	1.50	0.77
19:c8:24:GLY:HA2	19:c8:58:ALA:HB3	1.67	0.77
72:d5:78:ILE:HA	72:d5:81:ARG:HB3	1.67	0.77
19:T:61:LEU:HD22	19:T:61:LEU:H	1.50	0.77
35:1:830:A:OP1	80:1:3512:OHX:N3	2.18	0.77
35:1:1586:G:OP1	80:4:237:OHX:N2	2.18	0.77
35:1:1753:G:O2'	80:1:3624:OHX:N5	2.16	0.77
35:1:2822:U:OP2	80:1:3429:OHX:N5	2.18	0.77
1:sR:678:A:H2'	1:sR:679:U:C2	2.19	0.77
8:s6:3:LEU:HD11	8:s6:18:ILE:HG12	1.67	0.77
75:d8:42:ARG:HA	75:d8:63:ALA:HB3	1.67	0.77
1:A:654:C:N4	1:A:679:U:O4	2.17	0.77
35:1:1599:G:OP1	80:1:3624:OHX:N3	2.17	0.77
1:sR:284:G:N7	8:s6:188:ARG:NH1	2.32	0.77
1:sR:747:C:O3'	23:d2:80:ASN:ND2	2.17	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Rb:224:ASN:HD21	79:Rb:227:ALA:HB3	1.50	0.77
28:AB:128:ARG:HG2	62:AJ:8:ALA:HB2	1.67	0.77
44:CL:84:ALA:O	44:CL:140:THR:OG1	2.03	0.77
60:DI:82:ALA:O	60:DI:85:VAL:CG2	2.32	0.77
21:d0:51:VAL:HG11	21:d0:94:GLU:N	2.00	0.77
3:C:131:ASP:HB3	3:C:181:LEU:HD13	1.67	0.77
35:1:528:U:H2'	35:1:529:A:C8	2.20	0.77
35:1:2897:A:OP2	66:AN:124:LYS:NZ	2.18	0.77
35:1:3329:U:H5"	33:k:308:MET:HE2	1.67	0.77
73:b:79:ILE:HA	73:b:84:VAL:CG1	2.15	0.77
11:s9:108:ARG:HB2	11:s9:111:THR:HG23	1.65	0.77
1:A:1239:U:O4	80:A:2123:OHX:N6	2.18	0.77
1:A:1318:G:OP2	18:S:67:ARG:NH1	2.18	0.77
1:A:1628:U:H2'	1:A:1629:G:C8	2.20	0.77
26:AA:24:VAL:HG21	26:AA:87:LEU:HD23	1.67	0.77
28:AB:58:MET:HE1	35:1:2775:U:H1'	1.67	0.77
31:CD:2:GLY:N	35:AR:2608:G:OP1	2.18	0.77
35:1:1354:G:N7	35:1:1357:G:O2'	2.18	0.77
35:AR:115:A:O2'	48:CP:5:LYS:NZ	2.17	0.77
1:sR:1533:C:H4'	1:sR:1539:G:N1	2.00	0.77
79:Rb:23:LEU:HG	79:Rb:291:SER:HB2	1.66	0.77
25:d4:130:ALA:O	25:d4:133:ASN:ND2	2.14	0.77
35:1:621:A:O2'	80:1:4150:OHX:N1	2.19	0.76
36:AS:64:A:H5'	36:AS:65:G:H5"	1.68	0.76
40:CH:52:VAL:HG11	40:CH:65:ILE:HD12	1.67	0.76
42:CJ:112:GLU:HB3	42:CJ:125:ALA:HB3	1.66	0.76
65:DN:20:ASN:OD1	65:DN:41:ARG:NH1	2.18	0.76
1:sR:188:A:H2'	1:sR:189:C:O4'	1.85	0.76
1:sR:1041:G:OP1	80:sR:2020:OHX:N4	2.18	0.76
35:AR:1171:G:N7	80:AR:3504:OHX:N3	2.33	0.76
78:g:126:CYS:HB3	78:g:130:VAL:HG21	1.67	0.76
28:DC:51:GLY:N	51:CS:176:ARG:O	2.17	0.76
35:1:1077:U:O4	80:1:4143:OHX:N6	2.19	0.76
33:k:139:GLN:HG2	33:k:141:GLY:H	1.50	0.76
45:s:14:ILE:HG22	45:s:131:MET:HE3	1.67	0.76
56:6:86:ARG:HB2	56:6:92:PHE:HE1	1.45	0.76
70:sM:74:LYS:HG3	16:c5:129:GLY:HA3	1.65	0.76
1:sR:523:G:OP2	25:d4:37:LYS:NZ	2.18	0.76
1:sR:1235:C:H2'	1:sR:1236:A:H8	1.51	0.76
5:s3:95:GLY:CA	5:s3:101:GLN:HE22	1.98	0.76
25:d4:128:LYS:HE2	25:d4:131:ARG:HG2	1.67	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:101:ARG:HD3	2:B:103:THR:H	1.50	0.76
3:C:92:GLN:O	3:C:95:ASN:HB2	1.85	0.76
14:O:55:ARG:NH1	14:O:56:ASP:OD1	2.17	0.76
21:V:20:ILE:HB	21:V:22:ILE:HG12	1.66	0.76
1:sR:1211:A:H4'	16:c5:100:LYS:HD3	1.67	0.76
7:s5:25:LEU:HD23	7:s5:29:ILE:HD11	1.64	0.76
17:c6:50:GLU:OE1	17:c6:82:ARG:NH2	2.18	0.76
75:d8:12:VAL:HB	75:d8:28:VAL:HG21	1.66	0.76
1:A:753:A:H4'	6:F:221:ARG:HE	1.50	0.76
20:U:14:PHE:HE1	20:U:135:ILE:HD13	1.50	0.76
21:V:21:LYS:NZ	21:V:119:ALA:O	2.17	0.76
52:z:21:LYS:HE3	52:z:55:VAL:HA	1.66	0.76
35:AR:425:G:O6	80:AR:3416:OHX:N6	2.19	0.76
35:AR:664:U:H2'	35:AR:665:A:C8	2.21	0.76
4:s2:216:VAL:O	4:s2:220:ASN:ND2	2.17	0.76
7:G:189:THR:HG21	72:a:98:GLN:OE1	1.85	0.76
17:R:99:GLU:OE1	79:h:60:SER:OG	2.03	0.76
35:1:181:U:O3'	63:AK:75:LYS:NZ	2.19	0.76
33:k:53:MET:HG2	33:k:77:THR:HG22	1.68	0.76
56:6:53:SER:O	56:6:81:GLN:NE2	2.18	0.76
64:AL:38:PHE:HE2	64:AL:57:ASN:HB3	1.49	0.76
35:AR:275:U:O4	80:AR:3568:OHX:N5	2.18	0.76
1:sR:1369:U:OP2	20:c9:69:LYS:NZ	2.18	0.76
1:A:211:U:H5"	13:M:20:PHE:CD2	2.20	0.76
1:A:488:G:N7	1:A:498:G:N2	2.34	0.76
1:A:863:A:OP1	23:X:57:ARG:NH1	2.19	0.76
9:I:173:TYR:CD1	9:I:181:ILE:HD11	2.21	0.76
33:CE:232:ARG:NH1	33:CE:269:GLN:O	2.18	0.76
35:1:3066:U:O4	80:1:4165:OHX:N4	2.19	0.76
61:AI:4:VAL:HG12	61:AI:9:LEU:HD11	1.66	0.76
35:AR:979:U:H1'	35:AR:980:A:C8	2.21	0.76
39:CG:58:LYS:HD3	39:CG:58:LYS:N	2.00	0.76
55:CW:35:LYS:HA	55:CW:38:ILE:HG12	1.66	0.76
60:DI:104:VAL:HG23	60:DI:107:GLU:CG	2.16	0.76
79:Rb:213:SER:HB3	79:Rb:220:ILE:HD12	1.68	0.76
14:c3:71:ILE:H	14:c3:71:ILE:HD12	1.51	0.76
72:d5:60:VAL:HB	72:d5:101:TYR:HB2	1.68	0.76
2:B:42:PRO:HD2	18:S:105:GLN:HE21	1.49	0.76
3:C:52:THR:N	3:C:56:SER:OG	2.19	0.76
35:1:2843:U:OP1	80:1:3616:OHX:N4	2.19	0.76
33:k:35:ASP:OD2	33:k:37:ARG:NH1	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Rb:149:ASP:HB2	79:Rb:175:ASP:HB3	1.67	0.76
11:s9:163:PRO:HB3	11:s9:170:GLY:H	1.49	0.76
1:A:982:U:OP1	80:A:2144:OHX:N5	2.18	0.76
4:D:59:HIS:CE1	4:D:238:SER:HB3	2.21	0.76
14:O:27:LYS:HD3	14:O:27:LYS:H	1.50	0.76
43:q:22:SER:OG	43:q:23:ARG:N	2.18	0.76
35:AR:1555:U:O4	35:AR:1557:A:N6	2.18	0.76
35:AR:1639:C:OP2	60:DI:74:ARG:NH2	2.18	0.76
35:AR:2656:A:H4'	68:DQ:98:LYS:HD2	1.66	0.76
79:Rb:173:GLY:N	79:Rb:199:ILE:HD11	2.01	0.76
3:C:30:PHE:HD1	3:C:31:ASP:H	1.34	0.76
18:S:50:ILE:O	18:S:54:THR:OG1	2.05	0.76
35:1:2178:A:H3'	31:j:132:ASN:HD21	1.51	0.76
33:k:152:LYS:HG2	33:k:192:VAL:HG11	1.66	0.76
50:x:116:HIS:HB3	50:x:149:VAL:HG22	1.67	0.76
55:5:56:VAL:HG23	55:5:65:VAL:HG12	1.68	0.76
58:CZ:72:ALA:HB1	58:CZ:83:VAL:HG21	1.68	0.76
1:A:699:U:OP2	1:A:733:A:N6	2.18	0.75
24:Y:50:LYS:HG3	24:Y:103:LEU:HG	1.66	0.75
28:AB:47:LYS:HB2	51:y:157:PRO:HG3	1.68	0.75
34:AF:105:ARG:NH2	35:1:1412:G:OP1	2.18	0.75
35:1:979:U:H4'	35:1:980:A:O5'	1.86	0.75
43:q:18:VAL:HG12	43:q:27:VAL:HG13	1.68	0.75
35:AR:964:G:OP1	80:AR:3510:OHX:N1	2.19	0.75
35:AR:1563:C:O2	35:AR:1577:G:N2	2.18	0.75
68:DQ:15:LYS:HA	68:DQ:18:ARG:HG3	1.66	0.75
1:sR:845:G:N7	80:sR:1922:OHX:N4	2.34	0.75
16:c5:18:ARG:NH1	19:c8:90:ASN:O	2.18	0.75
19:c8:45:LEU:HD22	20:c9:36:ILE:HG22	1.66	0.75
5:E:46:THR:OG1	5:E:83:THR:O	2.05	0.75
19:T:20:THR:HG21	19:T:35:ILE:HG23	1.68	0.75
50:x:111:LYS:HB3	50:x:153:LYS:HG2	1.68	0.75
62:AJ:34:SER:HG	62:AJ:37:THR:HG1	1.26	0.75
62:AJ:99:ARG:HG3	62:AJ:100:HIS:H	1.51	0.75
35:AR:2185:G:O2'	35:AR:2314:U:OP2	2.04	0.75
68:DQ:95:GLY:O	68:DQ:96:GLU:HG2	1.86	0.75
1:sR:982:U:OP1	80:sR:1932:OHX:N2	2.18	0.75
6:F:5:PRO:HB2	6:F:7:LYS:HE3	1.67	0.75
15:P:42:VAL:CG2	15:P:46:MET:HE2	2.16	0.75
28:AB:10:LYS:NZ	35:1:1374:G:O6	2.20	0.75
28:DC:48:TYR:CD2	46:CN:6:ASN:HB2	2.21	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1562:C:H2'	35:1:1563:C:C6	2.21	0.75
36:3:4:U:H2'	36:3:5:G:C8	2.21	0.75
2:s0:38:PHE:O	2:s0:39:ASN:ND2	2.17	0.75
25:d4:52:LYS:HA	25:d4:55:VAL:HG12	1.69	0.75
35:AR:1764:U:H3'	35:AR:1765:U:H4'	1.69	0.75
56:CX:54:LEU:HD21	56:CX:119:GLY:HA3	1.69	0.75
1:sR:1067:C:H5"	3:s1:150:VAL:HG12	1.69	0.75
5:s3:101:GLN:HA	5:s3:104:SER:HB3	1.68	0.75
10:s8:178:ARG:HH11	10:s8:178:ARG:HG3	1.51	0.75
17:c6:89:LEU:HD21	17:c6:105:LEU:HD11	1.66	0.75
35:1:624:G:OP2	80:1:4180:OHX:N2	2.19	0.75
35:1:1029:G:H2'	35:1:1030:A:H8	1.50	0.75
41:o:156:ILE:O	41:o:159:GLN:HB2	1.87	0.75
47:CO:55:ARG:NH2	47:CO:76:ALA:O	2.18	0.75
79:h:178:VAL:O	79:h:192:PHE:HB2	1.87	0.75
79:Rb:124:SER:OG	79:Rb:132:LYS:N	2.20	0.75
6:s4:9:LEU:HB2	6:s4:30:ARG:HB2	1.68	0.75
11:s9:118:LEU:HG	11:s9:158:PHE:HE1	1.51	0.75
1:A:205:U:O4	80:A:2131:OHX:N5	2.19	0.75
1:A:1615:C:H3'	7:G:81:ARG:HH21	1.52	0.75
3:C:57:ALA:C	3:C:61:LEU:HD11	2.11	0.75
30:AD:103:THR:HG23	30:AD:105:ALA:H	1.50	0.75
35:1:3041:U:OP1	56:6:12:ARG:NH1	2.20	0.75
35:AR:3103:A:OP2	80:AR:3652:OHX:N1	2.19	0.75
71:p0:189:GLN:HG3	71:p0:190:VAL:H	1.52	0.75
1:sR:863:A:OP1	23:d2:57:ARG:NH1	2.18	0.75
55:5:33:TYR:HA	55:5:83:TYR:CE2	2.21	0.75
35:AR:2269:U:HO2'	35:AR:2270:A:H8	1.34	0.75
74:c:15:GLU:HA	74:c:18:LYS:HG3	1.67	0.75
79:h:146:GLY:HA3	79:h:181:TRP:HH2	1.52	0.75
7:s5:130:ILE:HD12	7:s5:131:GLN:N	2.02	0.75
35:1:793:C:OP2	80:1:4129:OHX:N1	2.19	0.75
35:1:864:G:OP2	80:1:3412:OHX:N2	2.20	0.75
64:AL:69:LEU:HD22	64:AL:75:VAL:HG21	1.69	0.75
35:AR:900:G:H1'	35:AR:1589:A:N6	2.02	0.75
35:AR:2704:A:OP2	80:AR:3401:OHX:N2	2.20	0.75
19:c8:12:GLN:NE2	19:c8:14:ILE:O	2.16	0.75
1:A:1665:U:O4	80:A:1967:OHX:N3	2.20	0.75
5:E:7:LYS:HA	5:E:10:LYS:HB3	1.69	0.75
15:P:31:THR:OG1	15:P:38:THR:HA	1.87	0.75
20:U:86:ARG:NH1	20:U:90:PRO:O	2.20	0.75

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CJ:106:LYS:HA	42:CJ:109:LEU:HB2	1.69	0.75
72:d5:64:VAL:HG23	72:d5:68:ARG:HE	1.52	0.75
1:A:273:G:N2	1:A:283:U:O2	2.18	0.74
6:F:64:ILE:HG13	25:Z:18:LEU:HD21	1.68	0.74
49:w:134:LYS:HD3	49:w:135:TYR:H	1.52	0.74
35:AR:343:U:OP2	80:AR:3426:OHX:N6	2.20	0.74
35:AR:1819:U:O4	80:AR:3553:OHX:N3	2.19	0.74
7:G:61:TYR:OH	75:d:52:ASP:OD2	2.05	0.74
12:L:27:PHE:HA	12:L:40:LEU:CD1	2.16	0.74
35:1:2108:C:H1'	35:1:3344:A:C8	2.22	0.74
1:sR:1066:C:H5"	3:s1:149:GLN:HE21	1.51	0.74
5:s3:60:GLY:HA3	5:s3:65:ARG:HB2	1.68	0.74
15:c4:51:ASP:HA	15:c4:54:GLU:HG3	1.69	0.74
1:A:69:G:N2	1:A:82:U:O2	2.17	0.74
1:A:422:G:N7	80:A:2153:OHX:N5	2.36	0.74
1:A:1680:G:O6	80:A:1956:OHX:N5	2.21	0.74
2:B:60:ALA:O	2:B:64:ILE:HG13	1.86	0.74
7:G:23:VAL:HG21	17:R:58:ASP:HB3	1.67	0.74
19:T:125:ILE:HG13	70:i:61:ILE:HG23	1.69	0.74
39:CG:60:ILE:HB	39:CG:80:SER:HB3	1.69	0.74
46:CN:107:GLU:N	46:CN:107:GLU:OE2	2.19	0.74
1:sR:1459:C:OP2	19:c8:138:THR:OG1	2.03	0.74
1:A:536:C:OP2	11:K:174:ARG:NH2	2.21	0.74
2:B:182:LEU:CB	2:B:188:LEU:HD22	2.17	0.74
35:1:2386:A:OP1	80:1:4153:OHX:N3	2.20	0.74
39:m:91:GLY:O	39:m:94:ASN:ND2	2.19	0.74
57:7:46:PRO:HB2	57:7:54:LEU:HD22	1.69	0.74
39:CG:107:ARG:HH22	39:CG:120:LYS:HA	1.51	0.74
1:sR:361:C:OP1	87:sR:2201:HOH:O	2.05	0.74
6:F:18:TRP:HB3	6:F:20:LEU:HD23	1.68	0.74
28:AB:147:LEU:HB3	62:AJ:7:ILE:HG22	1.70	0.74
39:m:83:LEU:HD12	39:m:88:ILE:HD13	1.68	0.74
75:d:18:ARG:HD3	75:d:26:THR:HG22	1.70	0.74
79:h:201:THR:CB	79:h:242:SER:HA	2.17	0.74
79:Rb:115:ILE:HG23	79:Rb:122:ILE:HD12	1.70	0.74
3:s1:70:LEU:HB3	3:s1:79:HIS:HB3	1.67	0.74
1:A:1471:A:C8	1:A:1540:G:H1'	2.21	0.74
2:B:53:THR:HG22	2:B:161:PRO:HG2	1.67	0.74
3:C:82:ARG:HH22	3:C:191:GLU:HB2	1.50	0.74
10:J:138:ASN:HB3	10:J:141:ARG:HH21	1.53	0.74
35:1:408:A:OP1	80:1:4158:OHX:N4	2.20	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1447:G:H3'	50:CR:67:ILE:HD11	1.68	0.74
79:Rb:211:ILE:HG12	79:Rb:223:TRP:HB2	1.69	0.74
2:B:148:ASP:OD2	2:B:165:ARG:NH2	2.20	0.74
4:D:39:THR:O	4:D:42:GLY:N	2.17	0.74
34:AF:118:LYS:NZ	35:1:438:A:OP1	2.21	0.74
35:1:1464:G:N7	80:1:3640:OHX:N5	2.35	0.74
45:s:99:THR:O	45:s:154:THR:OG1	2.05	0.74
59:AG:32:ILE:HG12	59:AG:100:ILE:HD12	1.68	0.74
35:AR:181:U:O3'	63:DL:75:LYS:NZ	2.21	0.74
35:AR:526:C:OP2	80:AR:4224:OHX:N5	2.20	0.74
40:CH:76:LEU:HD21	40:CH:141:VAL:HG21	1.69	0.74
1:A:393:C:OP2	10:J:2:GLY:N	2.21	0.74
7:G:184:PHE:CE2	7:G:185:ARG:HD2	2.23	0.74
19:T:88:ARG:HH11	19:T:91:ASP:HB2	1.53	0.74
35:1:2631:U:OP2	54:2:4:SER:OG	2.06	0.74
68:AP:50:PHE:O	80:AP:502:OHX:N5	2.20	0.74
35:AR:2404:A:N7	35:AR:2872:A:N6	2.35	0.74
69:DR:46:THR:OG1	69:DR:57:CYS:SG	2.45	0.74
1:sR:1171:A:H2'	1:sR:1172:G:C8	2.22	0.74
79:Rb:203:THR:HG22	79:Rb:212:ALA:HB2	1.69	0.74
17:c6:113:ASP:OD1	17:c6:116:LEU:N	2.20	0.74
20:c9:108:LEU:HB3	20:c9:114:VAL:HG22	1.70	0.74
1:A:816:G:N7	52:z:170:ARG:NH2	2.36	0.74
9:I:14:THR:O	9:I:18:LEU:HD11	1.87	0.74
35:AR:2787:G:O6	80:AR:4231:OHX:N2	2.21	0.74
38:CF:353:ALA:O	38:CF:357:GLU:HG3	1.88	0.74
71:p0:16:ARG:HA	71:p0:19:LEU:HD12	1.70	0.74
79:h:123:ILE:HG21	79:h:169:ILE:HG21	1.68	0.74
1:sR:163:G:H4'	8:s6:53:SER:HB2	1.70	0.74
79:Rb:81:LEU:HD11	79:Rb:91:LEU:HG	1.70	0.74
25:Z:99:LYS:HD3	25:Z:99:LYS:H	1.52	0.74
38:l:20:LEU:HD11	38:l:252:GLU:HG3	1.69	0.74
44:r:36:LEU:HD11	44:r:69:ARG:HH11	1.52	0.74
35:AR:1840:U:OP2	80:AR:3542:OHX:N4	2.20	0.74
43:CK:91:ARG:HG2	43:CK:182:SER:HB2	1.70	0.74
1:A:482:U:H2'	1:A:483:A:H8	1.51	0.73
3:C:71:ALA:HB3	15:P:114:ARG:NH2	2.03	0.73
9:I:46:ILE:HD11	9:I:60:ILE:HG23	1.70	0.73
17:R:87:LYS:HE3	17:R:117:LEU:HD22	1.69	0.73
35:1:3051:U:H2'	35:1:3052:G:H8	1.53	0.73
35:AR:255:A:H2'	35:AR:256:G:H8	1.51	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1466:G:O6	80:AR:3414:OHX:N5	2.21	0.73
62:DK:35:ASN:HA	62:DK:38:LYS:HE2	1.70	0.73
1:sR:513:U:OP1	11:s9:133:HIS:NE2	2.20	0.73
11:s9:109:LEU:HD21	11:s9:129:ILE:HG12	1.69	0.73
1:A:407:A:H2'	1:A:408:C:H6	1.52	0.73
1:A:448:C:OP1	6:F:29:PRO:HD3	1.88	0.73
28:DC:36:GLY:HA3	28:DC:40:HIS:CE1	2.23	0.73
35:1:2213:A:H2'	35:1:2214:A:H8	1.51	0.73
35:1:2767:U:OP1	68:AP:34:SER:HB3	1.88	0.73
1:sR:924:A:H2'	1:sR:925:G:C8	2.23	0.73
18:c7:71:PHE:CE1	18:c7:74:GLN:HG3	2.23	0.73
1:A:1591:C:H2'	1:A:1592:A:H8	1.53	0.73
14:O:71:ILE:HD12	14:O:71:ILE:H	1.51	0.73
15:P:17:ALA:HB3	15:P:81:VAL:HA	1.69	0.73
21:V:33:GLN:N	21:V:33:GLN:OE1	2.21	0.73
26:DB:106:GLN:HA	26:DB:109:GLU:HB3	1.68	0.73
64:AL:28:ASN:HB2	64:AL:30:LYS:HE3	1.70	0.73
80:AR:3406:OHX:N5	37:AT:1:A:OP1	2.21	0.73
11:s9:163:PRO:HB3	11:s9:169:PRO:HA	1.69	0.73
1:A:1474:G:H2'	1:A:1475:A:H8	1.53	0.73
3:C:92:GLN:H	3:C:95:ASN:CB	2.01	0.73
3:C:160:HIS:O	3:C:164:ILE:HG13	1.89	0.73
28:DC:147:LEU:HD21	46:CN:166:ALA:HB1	1.70	0.73
33:CE:152:LYS:HG2	33:CE:192:VAL:HG11	1.71	0.73
35:1:3290:G:N7	80:1:4164:OHX:N5	2.36	0.73
60:DI:82:ALA:C	60:DI:85:VAL:HG22	2.14	0.73
79:h:112:SER:HB2	79:h:153:GLN:HA	1.70	0.73
1:sR:567:A:H1'	77:e0:14:VAL:HG13	1.70	0.73
1:A:1533:C:H4'	1:A:1539:G:H1	1.52	0.73
2:B:124:THR:HA	2:B:146:LEU:HB2	1.71	0.73
35:1:24:G:OP2	80:1:3404:OHX:N4	2.20	0.73
36:3:4:U:H2'	36:3:5:G:H8	1.54	0.73
35:AR:3311:C:OP1	80:AR:3696:OHX:N1	2.22	0.73
1:sR:73:U:H2'	1:sR:74:U:C6	2.23	0.73
1:A:1618:C:O2'	80:A:2159[A]:OHX:N2	2.21	0.73
3:C:92:GLN:HG2	3:C:95:ASN:CG	2.13	0.73
4:D:176:SER:N	4:D:195:ASP:OD2	2.21	0.73
28:DC:59:ARG:HH22	68:DQ:38:GLN:HE21	1.36	0.73
35:1:824:C:H5"	31:j:21:ARG:HD3	1.70	0.73
35:1:2108:C:H1'	35:1:3344:A:H8	1.53	0.73
36:3:61:G:H4'	39:m:274:GLN:HG3	1.71	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:l:74:ILE:HD13	38:l:88:GLY:HA2	1.69	0.73
68:DQ:57:VAL:CG2	68:DQ:59:HIS:CE1	2.71	0.73
77:f:14:VAL:O	77:f:18:THR:HG23	1.89	0.73
1:sR:158:U:O2'	1:sR:160:C:OP2	2.07	0.73
1:A:209:U:H2'	1:A:210:A:C8	2.23	0.73
1:A:478:A:O2'	11:K:124:HIS:ND1	2.22	0.73
1:A:868:G:H1	1:A:960:U:H3	1.36	0.73
1:A:1111:G:OP2	80:A:2132:OHX:N5	2.21	0.73
10:J:89:GLU:O	10:J:93:THR:HG22	1.89	0.73
18:S:105:GLN:OE1	18:S:105:GLN:N	2.17	0.73
26:AA:13:VAL:HG13	26:AA:19:ALA:HA	1.70	0.73
35:1:1575:A:N6	35:1:1576:G:N7	2.36	0.73
35:1:3103:A:OP2	80:1:3631:OHX:N5	2.22	0.73
45:s:12:LEU:HD21	45:s:131:MET:HB3	1.71	0.73
35:AR:1881:A:OP2	80:AR:3533:OHX:N6	2.21	0.73
1:sR:939:A:H2'	1:sR:940:A:C8	2.24	0.73
1:sR:1758:U:O4	80:sR:1903:OHX:N6	2.21	0.73
4:s2:40:LYS:HG3	4:s2:247:ALA:HB1	1.69	0.73
1:A:985:G:O6	80:A:2115:OHX:N2	2.21	0.73
3:C:31:ASP:HB3	3:C:45:LYS:HG3	1.69	0.73
7:G:173:ALA:O	7:G:177:ILE:HG12	1.87	0.73
42:p:116:VAL:HG21	42:p:121:SER:CB	2.19	0.73
48:v:9:GLU:HG3	62:AJ:44:VAL:HG21	1.68	0.73
60:AH:84:CYS:O	60:AH:88:ARG:HG3	1.89	0.73
35:AR:3085:G:OP2	80:AR:3407:OHX:N1	2.20	0.73
35:AR:3376:A:OP2	80:AR:3436:OHX:N4	2.22	0.73
44:CL:23:ASN:O	44:CL:24:ARG:HD3	1.88	0.73
61:DJ:15:GLU:OE2	61:DJ:15:GLU:N	2.20	0.73
2:s0:79:ARG:NH1	2:s0:125:ASP:OD2	2.21	0.73
8:s6:180:THR:HG22	8:s6:183:ARG:HG3	1.69	0.73
14:c3:91:LEU:HD12	14:c3:125:LEU:HD12	1.71	0.73
35:1:13:A:OP1	80:1:3605:OHX:N5	2.22	0.73
35:1:668:G:OP1	80:1:3604:OHX:N2	2.22	0.73
35:1:1596:C:H2'	35:1:1597:C:C6	2.24	0.73
35:1:2707:C:OP1	70:i:34:LYS:NZ	2.22	0.73
56:6:87:ARG:HH22	56:6:137:VAL:HG22	1.54	0.73
35:AR:72:C:C4'	46:CN:63:VAL:HG12	2.19	0.73
10:J:114:GLU:HA	10:J:118:GLY:HA2	1.69	0.73
12:L:27:PHE:HD1	12:L:40:LEU:HG	1.53	0.73
15:P:53:ASP:O	15:P:56:SER:OG	2.07	0.73
29:AC:3:LYS:NZ	35:1:2618:G:O5'	2.21	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:271:C:O2	62:AJ:82:ARG:NH2	2.21	0.73
35:1:410:U:O4	80:1:4158:OHX:N2	2.22	0.73
35:1:837:A:OP2	69:AQ:4:ARG:NH1	2.22	0.73
35:AR:621:A:O2'	35:AR:623:U:O4	2.06	0.73
35:AR:1580:A:H4'	35:AR:1581:C:H5'	1.69	0.73
1:sR:1063:U:H2'	1:sR:1064:G:H8	1.51	0.73
1:sR:1524:A:H2'	1:sR:1525:A:C8	2.24	0.73
19:c8:106:GLU:OE2	19:c8:110:ARG:NH2	2.22	0.73
7:G:109:LYS:O	7:G:113:ILE:HG13	1.89	0.72
9:I:39:ARG:O	9:I:39:ARG:NH1	2.18	0.72
19:T:2:SER:OG	19:T:3:LEU:N	2.17	0.72
20:U:28:LEU:HD22	20:U:55:TYR:CE2	2.20	0.72
23:X:86:ILE:HD12	23:X:87:GLU:H	1.54	0.72
35:1:412:G:OP1	50:x:62:ARG:NH1	2.22	0.72
50:x:16:SER:HB3	50:x:149:VAL:HG12	1.69	0.72
35:AR:2697:A:H2'	35:AR:2698:G:H8	1.54	0.72
77:f:49:LEU:C	77:f:49:LEU:HD13	2.15	0.72
1:sR:1546:G:OP1	19:c8:123:ARG:NH1	2.22	0.72
9:s7:154:LEU:HD11	9:s7:183:PHE:CD2	2.23	0.72
1:A:57:G:O6	80:A:1912:OHX:N3	2.21	0.72
4:D:45:VAL:HG11	4:D:68:ILE:HG23	1.69	0.72
25:Z:113:ASN:HA	25:Z:116:LYS:HD3	1.70	0.72
26:AA:9:LYS:HA	26:AA:86:THR:HG22	1.71	0.72
64:AL:77:ARG:HH11	64:AL:77:ARG:HG2	1.51	0.72
35:AR:368:G:OP1	80:AR:3426:OHX:N1	2.21	0.72
35:AR:2503:G:N2	35:AR:2504:U:O4	2.22	0.72
3:s1:131:ASP:OD2	3:s1:180:THR:OG1	2.07	0.72
6:s4:205:PHE:CE2	6:s4:221:ARG:HD3	2.24	0.72
25:d4:87:PRO:HG2	25:d4:90:ARG:HG3	1.71	0.72
1:A:1500:C:OP1	20:U:122:ARG:NH2	2.19	0.72
7:G:158:GLN:HG2	75:d:66:LEU:HD11	1.70	0.72
16:Q:22:LEU:HD12	16:Q:109:PRO:HG3	1.72	0.72
35:1:553:U:O4	80:1:4138:OHX:N5	2.22	0.72
35:1:664:U:H2'	35:1:665:A:C8	2.25	0.72
35:1:1674:G:N7	80:1:4137:OHX:N6	2.36	0.72
49:w:12:LYS:O	53:0:167:ARG:NH2	2.21	0.72
60:AH:46:ASP:OD1	60:AH:80:ARG:NH1	2.22	0.72
35:AR:2537:U:H5"	3:s1:226:GLY:HA2	1.70	0.72
75:d:13:ILE:HD12	75:d:14:LYS:HD3	1.69	0.72
1:sR:489:C:H5	1:sR:498:G:H22	1.34	0.72
6:s4:160:VAL:HG23	6:s4:162:ILE:HD11	1.70	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:74:LYS:HE2	10:s8:74:LYS:HA	1.71	0.72
1:A:52:U:H2'	1:A:53:G:H8	1.54	0.72
1:A:122:U:O3'	6:F:77:ARG:NH2	2.23	0.72
34:AF:100:ILE:O	34:AF:105:ARG:NH1	2.23	0.72
35:1:544:C:H1'	35:1:548:G:H22	1.53	0.72
35:1:1581:C:H2'	35:1:1582:C:H5'	1.70	0.72
35:AR:1385:C:OP1	38:CF:141:ARG:NH2	2.22	0.72
35:AR:3128:G:OP2	80:AR:3652:OHX:N2	2.22	0.72
1:sR:68:A:O2'	1:sR:69:G:OP2	2.06	0.72
2:s0:30:GLN:OE1	2:s0:32:HIS:N	2.14	0.72
6:s4:9:LEU:HD12	6:s4:30:ARG:HA	1.71	0.72
11:s9:124:HIS:CE1	11:s9:128:LEU:HD11	2.25	0.72
1:A:1437:U:H5'	5:E:176:LEU:HD23	1.72	0.72
1:A:1566:U:OP1	19:T:39:GLY:HA3	1.90	0.72
1:A:1735:U:O4	80:A:1967:OHX:N4	2.22	0.72
26:AA:81:LEU:HD11	60:AH:90:ILE:HG23	1.72	0.72
35:1:1233:G:O2'	35:1:1256:G:N2	2.23	0.72
31:j:111:THR:HB	31:j:136:ILE:HD13	1.72	0.72
39:m:252:ALA:HB1	39:m:254:LYS:HD3	1.71	0.72
35:AR:2697:A:H2'	35:AR:2698:G:C8	2.24	0.72
36:AS:23:A:H2'	36:AS:24:A:C8	2.24	0.72
40:CH:60:ASP:OD1	40:CH:62:THR:OG1	2.06	0.72
1:sR:1098:U:OP2	4:s2:168:ARG:NH1	2.22	0.72
79:Rb:213:SER:CB	79:Rb:221:MET:H	2.02	0.72
15:P:42:VAL:HG21	15:P:46:MET:HE2	1.70	0.72
20:U:38:LYS:HA	20:U:46:PRO:HA	1.72	0.72
31:CD:109:GLU:N	31:CD:109:GLU:OE2	2.22	0.72
35:1:1594:A:OP1	60:AH:36:LYS:NZ	2.21	0.72
31:j:149:ARG:HH22	31:j:252:THR:HB	1.55	0.72
31:j:179:LEU:O	31:j:184:ARG:HD3	1.88	0.72
49:w:61:ALA:HA	49:w:70:PRO:HD2	1.72	0.72
42:CJ:42:PRO:HD2	42:CJ:44:ARG:HH12	1.54	0.72
1:A:227:U:O2	1:A:834:G:N2	2.20	0.72
1:A:739:G:O6	80:A:1946:OHX:N4	2.22	0.72
2:B:182:LEU:HB2	2:B:188:LEU:HD22	1.70	0.72
17:R:113:ASP:OD1	17:R:116:LEU:N	2.22	0.72
35:1:2877:G:HO2'	35:1:2923:U:HO2'	1.36	0.72
50:x:59:PRO:HB3	50:x:78:VAL:HG11	1.71	0.72
35:AR:3355:U:H3'	35:AR:3356:G:H5"	1.70	0.72
79:h:259:GLY:HA3	79:h:275:ARG:HD2	1.70	0.72
6:s4:66:MET:HA	6:s4:66:MET:HE2	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:10:ASN:HB3	8:H:128:THR:HA	1.71	0.72
17:R:87:LYS:H	17:R:87:LYS:HD2	1.53	0.72
45:s:117:ASP:OD1	45:s:119:SER:OG	2.07	0.72
35:AR:1667:A:H2'	35:AR:1668:G:C8	2.24	0.72
1:sR:976:G:O6	80:sR:1936:OHX:N6	2.22	0.72
79:Rb:299:GLN:HA	79:Rb:315:VAL:HG22	1.70	0.72
16:c5:81:ARG:NH2	16:c5:97:TYR:O	2.23	0.72
3:C:33:LYS:O	3:C:97:LEU:HD22	1.90	0.72
3:C:82:ARG:HD2	3:C:82:ARG:H	1.55	0.72
4:D:50:ILE:HD11	4:D:239:PRO:HG2	1.72	0.72
5:E:92:GLN:N	5:E:92:GLN:OE1	2.22	0.72
15:P:31:THR:HA	15:P:39:ILE:HG12	1.70	0.72
30:AD:58:TYR:HE2	60:AH:97:GLU:HG2	1.53	0.72
31:j:130:SER:HB3	31:j:174:ARG:HH21	1.53	0.72
35:AR:1277:C:H2'	35:AR:1278:A:H8	1.53	0.72
68:DQ:15:LYS:HA	68:DQ:18:ARG:CD	2.20	0.72
1:sR:846:G:H21	13:c1:46:LYS:HD2	1.55	0.72
1:sR:1495:C:OP1	80:sR:1967:OHX:N6	2.22	0.72
7:s5:195:ALA:HA	7:s5:198:LEU:HD12	1.70	0.72
1:A:1525:A:H5'	20:U:93:HIS:HB2	1.72	0.72
7:G:121:ILE:HG12	7:G:198:LEU:CD1	2.17	0.72
32:AE:54:GLU:OE2	32:AE:54:GLU:N	2.21	0.72
35:1:1180:A:OP1	59:AG:78:SER:OG	2.07	0.72
35:1:3377:G:O6	80:1:4177:OHX:N6	2.22	0.72
52:CT:167:ARG:HA	52:CT:170:ARG:HB3	1.72	0.72
1:A:682:C:H2'	1:A:683:C:H6	1.55	0.71
1:A:702:G:C8	80:A:2142:OHX:N3	2.58	0.71
1:A:1555:A:O2'	16:Q:82:ASN:OD1	2.08	0.71
9:I:35:LYS:HZ2	9:I:36:ALA:HA	1.54	0.71
20:U:65:ILE:HD13	20:U:71:VAL:HG22	1.70	0.71
27:DA:27:ARG:O	27:DA:31:LEU:HD12	1.88	0.71
35:AR:1024:G:N2	35:AR:1027:A:OP2	2.22	0.71
35:AR:1696:A:H2'	35:AR:1697:A:C8	2.25	0.71
80:AR:3678:OHX:N3	37:AT:43:A:OP1	2.22	0.71
36:AS:49:G:N7	39:CG:58:LYS:HG3	2.03	0.71
6:s4:248:ILE:HG13	11:s9:71:PHE:CE2	2.24	0.71
8:s6:143:LYS:NZ	8:s6:147:LEU:O	2.23	0.71
14:c3:42:ARG:HG3	14:c3:80:LEU:HD11	1.72	0.71
15:c4:13:VAL:HG22	15:c4:77:THR:HG23	1.70	0.71
1:A:290:G:O6	80:A:1976:OHX:N6	2.23	0.71
1:A:900:A:H3'	1:A:901:G:H21	1.55	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1641:C:H2'	1:A:1642:G:C8	2.24	0.71
26:DB:23:VAL:HG22	26:DB:45:GLY:HA3	1.72	0.71
35:1:723:U:O4	80:1:4152:OHX:N5	2.21	0.71
35:1:900:G:H1'	35:1:1589:A:N6	2.04	0.71
35:1:3139:A:OP1	33:k:274:SER:OG	2.07	0.71
33:k:41:VAL:HG12	33:k:185:GLY:HA3	1.72	0.71
69:AQ:49:ARG:HD2	69:AQ:50:GLY:N	2.05	0.71
35:AR:1232:C:H5	35:AR:1261:G:H2'	1.55	0.71
35:AR:1348:U:O2	35:AR:1349:G:N2	2.23	0.71
35:AR:2347:U:O4	80:AR:3432:OHX:N6	2.24	0.71
50:CR:33:ALA:HB1	50:CR:117:ILE:HG12	1.71	0.71
60:DI:103:LYS:CD	60:DI:104:VAL:HG12	2.20	0.71
1:sR:393:C:OP2	10:s8:2:GLY:N	2.24	0.71
1:sR:919:A:H4'	15:c4:35:GLY:HA3	1.70	0.71
22:d1:39:VAL:HG22	22:d1:45:ALA:HA	1.71	0.71
28:DC:50:PRO:HB2	51:CS:178:ARG:HG3	1.71	0.71
35:1:1114:U:OP2	80:1:4142:OHX:N3	2.24	0.71
35:AR:1487:G:H1	35:AR:1855:U:H3	1.39	0.71
35:AR:2748:A:H1'	39:CG:36:LEU:HD23	1.70	0.71
44:CL:21:ARG:NH1	44:CL:22:TYR:OH	2.24	0.71
60:DI:104:VAL:HG23	60:DI:107:GLU:CB	2.19	0.71
1:sR:250:C:H2'	1:sR:251:A:H8	1.55	0.71
2:s0:185:ARG:HB2	22:d1:45:ALA:HB3	1.72	0.71
73:d6:87:ARG:NH2	73:d6:91:ASP:O	2.23	0.71
8:H:21:GLU:HA	8:H:24:ILE:HG12	1.73	0.71
27:DA:56:VAL:HG22	27:DA:106:ILE:HA	1.71	0.71
30:DE:16:LEU:O	30:DE:20:SER:OG	2.06	0.71
35:AR:1019:G:H1	35:AR:1033:U:H3	1.35	0.71
36:AS:4:U:H2'	36:AS:5:G:H8	1.56	0.71
1:sR:1360:A:H3'	1:sR:1361:U:H4'	1.71	0.71
79:Rb:70:ASP:HB3	79:Rb:113:VAL:HG12	1.73	0.71
7:G:140:THR:HB	7:G:174:LEU:HD11	1.72	0.71
9:I:14:THR:HG21	9:I:17:GLU:HB2	1.72	0.71
11:K:149:ARG:HD2	11:K:149:ARG:H	1.55	0.71
31:CD:207:VAL:HG21	35:AR:916:G:C6	2.25	0.71
35:1:2675:C:N4	45:s:22:SER:OG	2.22	0.71
35:1:2703:A:OP2	39:m:23:ARG:NH1	2.24	0.71
39:m:120:LYS:O	39:m:248:ARG:NH2	2.23	0.71
43:q:16:VAL:HG12	43:q:29:GLY:HA3	1.72	0.71
69:AQ:49:ARG:HD2	69:AQ:50:GLY:H	1.54	0.71
80:AR:3507:OHX:N5	52:CT:87:ALA:O	2.24	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1591:C:H2'	1:sR:1592:A:C8	2.26	0.71
79:Rb:91:LEU:O	79:Rb:100:TYR:N	2.17	0.71
1:A:711:U:H1'	1:A:712:G:H8	1.55	0.71
10:J:41:LYS:HA	10:J:59:ARG:O	1.91	0.71
11:K:31:ALA:HB2	11:K:42:ILE:HD11	1.72	0.71
17:R:29:ILE:HA	17:R:65:ILE:O	1.91	0.71
18:S:35:CYS:HA	18:S:38:ILE:HG22	1.72	0.71
18:S:47:ARG:HH11	18:S:47:ARG:HG3	1.53	0.71
19:T:11:PHE:HD1	19:T:59:GLY:HA3	1.56	0.71
31:CD:108:PRO:HG2	69:DR:86:LEU:HD23	1.73	0.71
35:1:129:U:H2'	35:1:130:A:C8	2.25	0.71
35:1:693:A:H2'	35:1:694:C:H6	1.55	0.71
33:k:171:LEU:O	80:k:403:OHX:N4	2.24	0.71
35:AR:393:U:OP2	80:AR:3453:OHX:N1	2.23	0.71
35:AR:1062:A:OP2	80:AR:3691:OHX:N3	2.23	0.71
5:s3:76:ARG:HG3	5:s3:77:PHE:CD1	2.26	0.71
20:U:55:TYR:HA	20:U:58:ALA:HB3	1.71	0.71
37:4:46:G:OP2	65:AM:15:LYS:NZ	2.23	0.71
42:p:156:ASP:OD1	42:p:156:ASP:N	2.23	0.71
47:u:8:LYS:HG3	47:u:9:ALA:H	1.54	0.71
80:AR:3408:OHX:N2	63:DL:46:SER:OG	2.23	0.71
68:DQ:14:GLY:HA2	68:DQ:79:THR:HG21	1.73	0.71
1:sR:1351:G:H5"	17:c6:66:ARG:HH22	1.54	0.71
5:s3:195:SER:O	5:s3:196:ARG:NH1	2.23	0.71
25:d4:59:GLY:O	25:d4:71:GLY:HA2	1.90	0.71
1:A:161:U:OP2	8:H:87:ARG:NH2	2.24	0.71
1:A:509:G:H2'	1:A:510:G:C8	2.26	0.71
1:A:1280:C:H2'	1:A:1281:G:C8	2.25	0.71
1:A:1597:A:C8	76:e:14:TYR:HD2	2.09	0.71
2:B:119:ARG:HH12	4:D:241:ASP:HA	1.55	0.71
19:T:64:GLU:O	19:T:68:ARG:HG3	1.91	0.71
35:1:1266:G:N2	35:1:1275:C:O2	2.19	0.71
35:1:2232:A:OP2	80:1:4156:OHX:N4	2.23	0.71
45:s:21:ILE:HD11	45:s:37:LEU:CD2	2.21	0.71
35:AR:1029:G:H2'	35:AR:1030:A:H8	1.55	0.71
35:AR:1952:G:H3'	35:AR:1953:G:H5"	1.72	0.71
43:CK:22:SER:OG	43:CK:23:ARG:N	2.23	0.71
56:CX:129:VAL:O	56:CX:133:SER:OG	2.09	0.71
68:DQ:15:LYS:HD2	68:DQ:15:LYS:C	2.14	0.71
23:d2:22:LYS:HA	74:d7:3:LEU:HD12	1.72	0.71
1:A:487:G:H1	1:A:500:C:H42	1.36	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:27:PHE:CA	12:L:40:LEU:HD11	2.21	0.71
35:1:678:G:O6	80:1:4144:OHX:N3	2.24	0.71
50:x:50:GLN:OE1	50:x:56:ARG:NH1	2.24	0.71
62:AJ:95:ALA:O	62:AJ:99:ARG:HB3	1.90	0.71
64:AL:38:PHE:CE2	64:AL:57:ASN:HB3	2.26	0.71
35:AR:1196:C:O2	80:AR:3501:OHX:N1	2.23	0.71
70:sM:58:GLU:HA	70:sM:61:ILE:HG22	1.73	0.71
79:h:300:THR:HG22	79:h:314:GLN:HB3	1.73	0.71
1:sR:591:A:H2'	1:sR:592:A:C8	2.26	0.71
79:Rb:22:SER:OG	79:Rb:69:GLN:O	2.08	0.71
3:s1:164:ILE:O	3:s1:168:ILE:HG12	1.90	0.71
4:s2:226:THR:OG1	4:s2:228:ASN:OD1	2.07	0.71
10:s8:36:THR:HG22	10:s8:57:ALA:O	1.91	0.71
17:c6:69:VAL:HG11	17:c6:81:ILE:HG13	1.72	0.71
75:d8:54:LEU:HD22	75:d8:55:VAL:H	1.54	0.71
1:A:479:C:H42	1:A:509:G:H1	1.36	0.71
20:U:52:GLY:HA2	20:U:55:TYR:CE1	2.26	0.71
21:V:35:GLU:HA	21:V:38:SER:HB3	1.71	0.71
29:AC:50:THR:HG22	35:1:1073:U:H1'	1.72	0.71
39:m:108:ARG:CZ	39:m:253:PHE:HB2	2.21	0.71
53:0:109:ASP:OD1	53:0:113:ARG:NH1	2.24	0.71
35:AR:1239:C:H42	35:AR:1249:G:H1	1.36	0.71
39:CG:92:LEU:HD23	39:CG:92:LEU:H	1.55	0.71
55:CW:39:ASP:C	55:CW:47:VAL:HG21	2.15	0.71
1:sR:75:U:O2'	1:sR:76:A:O4'	2.08	0.71
1:sR:1358:G:H4'	20:c9:130:ARG:HB3	1.73	0.71
1:A:61:A:H8	1:A:269:G:HO2'	1.39	0.70
1:A:520:A:H2'	1:A:521:A:C8	2.26	0.70
1:A:768:C:H1'	11:K:143:ILE:HG21	1.71	0.70
1:A:1615:C:H2'	7:G:81:ARG:HE	1.56	0.70
4:D:178:ILE:HD13	4:D:188:LEU:HB2	1.72	0.70
20:U:125:SER:OG	20:U:127:ASN:OD1	2.09	0.70
31:CD:29:LEU:HA	31:CD:76:PHE:HE1	1.56	0.70
33:CE:171:LEU:O	80:CE:401:OHX:N3	2.24	0.70
35:1:1790:G:O6	80:1:4166:OHX:N5	2.24	0.70
35:1:2146:C:OP1	31:j:200:ARG:NH2	2.24	0.70
39:m:56:THR:OG1	39:m:59:ASP:HB3	1.91	0.70
41:o:80:GLN:HB2	54:2:135:PRO:HB2	1.73	0.70
50:x:172:GLN:NE2	59:AG:60:ARG:O	2.20	0.70
39:CG:85:ARG:NH2	39:CG:86:TYR:OH	2.23	0.70
50:CR:122:ALA:HB3	50:CR:143:PRO:HB2	1.73	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CT:163:ARG:O	52:CT:166:ASN:ND2	2.24	0.70
55:CW:90:ARG:HE	55:CW:94:ARG:NH2	1.88	0.70
60:DI:82:ALA:O	60:DI:85:VAL:N	2.23	0.70
1:sR:434:G:N7	80:sR:1938:OHX:N2	2.38	0.70
1:sR:1400:A:H4'	18:c7:60:ARG:HH12	1.55	0.70
1:A:1335:U:H3	1:A:1416:G:H1	1.39	0.70
19:T:91:ASP:OD1	19:T:92:ILE:N	2.23	0.70
35:AR:629:U:H2'	35:AR:630:A:C8	2.27	0.70
35:AR:1603:A:N6	58:CZ:71:THR:HG21	2.04	0.70
73:b:97:PRO:N	73:b:98:PRO:HD2	2.05	0.70
1:sR:486:G:N2	1:sR:487:G:N7	2.39	0.70
1:sR:1216:C:O2'	1:sR:1444:A:N1	2.21	0.70
1:sR:1483:A:H2'	1:sR:1484:G:C8	2.25	0.70
79:Rb:213:SER:OG	79:Rb:214:ALA:N	2.22	0.70
3:s1:129:THR:OG1	3:s1:131:ASP:OD1	2.09	0.70
6:s4:73:ASP:OD2	6:s4:122:LYS:NZ	2.24	0.70
72:d5:90:LYS:HB3	72:d5:102:THR:HG22	1.72	0.70
77:e0:50:VAL:HG11	77:e0:54:ARG:HH11	1.57	0.70
1:A:732:G:O2'	1:A:733:A:O4'	2.09	0.70
1:A:1132:A:OP1	24:Y:30:LYS:NZ	2.21	0.70
2:B:24:LEU:HD21	2:B:27:ARG:HH12	1.56	0.70
6:F:196:VAL:HB	6:F:209:HIS:HB3	1.73	0.70
35:AR:1930:A:O2'	80:AR:3429:OHX:N6	2.25	0.70
35:AR:1934:G:N7	80:AR:3417:OHX:N4	2.39	0.70
16:c5:65:LEU:O	80:c5:201:OHX:N2	2.24	0.70
1:A:1175:U:H3	1:A:1464:G:H1	1.38	0.70
1:A:1291:G:N2	1:A:1324:G:H22	1.88	0.70
1:A:1535:U:O2'	1:A:1536:G:N3	2.20	0.70
2:B:198:MET:HE3	2:B:200:ASP:HB2	1.71	0.70
8:H:135:PRO:HB2	8:H:141:ILE:HG13	1.71	0.70
17:R:39:VAL:H	17:R:45:ARG:HH22	1.38	0.70
30:DE:26:GLY:O	30:DE:30:THR:OG1	2.07	0.70
35:1:2704:A:OP2	80:1:4122:OHX:N3	2.24	0.70
33:k:261:MET:HG2	49:w:64:PHE:HA	1.71	0.70
35:AR:65:A:H4'	35:AR:66:A:O5'	1.90	0.70
71:p0:91:GLU:HB3	71:p0:92:PRO:HD3	1.72	0.70
1:sR:517:U:O4	80:sR:1958:OHX:N4	2.25	0.70
8:s6:149:LYS:C	8:s6:149:LYS:HD3	2.16	0.70
19:c8:145:ARG:HA	19:c8:145:ARG:HE	1.55	0.70
1:A:22:A:OP2	80:A:2138:OHX:N4	2.24	0.70
1:A:52:U:H2'	1:A:53:G:C8	2.26	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:992:A:H2	1:A:1012:U:H3	1.37	0.70
3:C:105:PHE:CD1	3:C:213:ARG:HA	2.26	0.70
9:I:82:GLU:OE2	9:I:82:GLU:N	2.24	0.70
13:M:42:PHE:HA	13:M:141:LYS:HZ2	1.54	0.70
18:S:66:VAL:HG12	18:S:69:ILE:HD13	1.73	0.70
35:1:2895:G:O2'	66:AN:100:TYR:O	2.07	0.70
67:AO:12:ARG:HG2	67:AO:15:ARG:HH22	1.57	0.70
39:CG:64:ILE:HD12	39:CG:109:THR:HG21	1.73	0.70
64:DM:66:ILE:HG21	64:DM:77:ARG:NH1	2.06	0.70
1:sR:27:U:OP1	80:sR:1964:OHX:N6	2.25	0.70
1:sR:1383:G:OP1	21:d0:87:HIS:ND1	2.18	0.70
1:A:209:U:H2'	1:A:210:A:H8	1.55	0.70
17:R:26:LYS:HD2	17:R:26:LYS:N	2.07	0.70
26:AA:26:VAL:HG21	26:AA:96:VAL:CG1	2.20	0.70
26:AA:26:VAL:HG21	26:AA:96:VAL:HG11	1.73	0.70
28:DC:59:ARG:NH1	35:AR:90:C:OP1	2.25	0.70
35:1:76:G:O2'	46:t:100:ARG:NH1	2.22	0.70
35:1:1485:G:O6	80:1:3485:OHX:N2	2.24	0.70
35:1:2585:G:N7	42:p:47:SER:OG	2.24	0.70
58:8:34:LEU:HD22	58:8:35:PRO:HD2	1.74	0.70
62:AJ:34:SER:OG	62:AJ:37:THR:OG1	2.01	0.70
35:AR:412:G:OP1	50:CR:62:ARG:NH1	2.24	0.70
35:AR:2138:A:HO2'	63:DL:2:GLY:N	1.90	0.70
59:DH:9:VAL:HG23	59:DH:100:ILE:HB	1.71	0.70
71:p0:42:ARG:O	71:p0:46:ARG:HG2	1.92	0.70
1:sR:1478:G:H5'	20:c9:47:PRO:HB3	1.72	0.70
9:s7:64:VAL:HG12	9:s7:94:ALA:HB1	1.71	0.70
12:c0:25:LYS:HB2	12:c0:64:TYR:CE2	2.27	0.70
1:A:523:G:O6	80:A:1916:OHX:N3	2.24	0.70
3:C:103:MET:HG3	3:C:215:VAL:HB	1.74	0.70
11:K:176:ASN:HA	11:K:179:ARG:HE	1.56	0.70
16:Q:115:TYR:N	16:Q:118:GLU:OE2	2.23	0.70
42:p:98:ARG:HD3	42:p:98:ARG:H	1.56	0.70
43:q:92:TYR:HB3	43:q:99:ILE:HD11	1.74	0.70
35:AR:93:C:OP1	84:AR:4255:VDU:N	2.24	0.70
45:CM:59:ILE:HB	45:CM:65:ILE:HD11	1.72	0.70
5:s3:71:LEU:HD23	5:s3:72:LEU:H	1.55	0.70
72:d5:91:PRO:HB3	72:d5:101:TYR:HE1	1.54	0.70
1:A:257:A:H1'	10:J:73:SER:HB2	1.74	0.70
1:A:405:C:O2'	8:H:92:ARG:O	2.08	0.70
1:A:651:G:H1	1:A:683:C:H42	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1533:C:OP2	72:a:77:ARG:NH2	2.22	0.70
2:B:169:SER:HA	2:B:172:LEU:HB2	1.72	0.70
24:Y:107:PHE:CE1	24:Y:123:LYS:HB3	2.23	0.70
26:DB:12:VAL:HG22	26:DB:81:LEU:HB3	1.73	0.70
28:DC:144:VAL:HG11	46:CN:161:ASP:HB2	1.73	0.70
61:AI:71:LYS:O	61:AI:73:LYS:NZ	2.24	0.70
35:AR:2429:G:OP2	80:AR:3548:OHX:N5	2.24	0.70
63:DL:28:HIS:CD2	63:DL:31:LYS:H	2.10	0.70
79:Rb:52:GLN:C	79:Rb:53:LYS:HD3	2.16	0.70
2:s0:180:GLU:OE2	2:s0:191:ARG:NH2	2.24	0.70
4:s2:246:GLU:N	4:s2:246:GLU:OE1	2.23	0.70
5:s3:223:LYS:HE3	5:s3:225:TYR:CE1	2.25	0.70
1:A:142:G:H22	1:A:173:A:H2	1.40	0.70
3:C:205:PHE:HB3	3:C:207:LEU:HD13	1.74	0.70
20:U:74:GLY:HA2	20:U:77:ASN:ND2	2.07	0.70
20:U:113:ILE:C	20:U:125:SER:HB3	2.16	0.70
35:1:276:U:O2	48:v:93:LYS:HE2	1.92	0.70
35:1:3146:G:O2'	33:k:100:ARG:NH1	2.25	0.70
37:4:85:G:N1	27:9:112:ASP:OD2	2.22	0.70
45:s:49:LYS:HB3	45:s:62:ASN:HA	1.73	0.70
53:0:131:LYS:O	53:0:134:ASP:HB2	1.92	0.70
55:5:34:ALA:O	55:5:38:ILE:HG13	1.92	0.70
35:AR:1953:G:H3'	35:AR:1954:G:H5"	1.73	0.70
1:sR:1542:G:N2	1:sR:1569:A:OP2	2.22	0.70
1:sR:1628:U:H2'	1:sR:1629:G:C8	2.25	0.70
2:s0:107:PHE:HB2	2:s0:135:GLU:HG2	1.72	0.70
3:s1:141:ALA:HB2	3:s1:210:ILE:HG23	1.73	0.70
17:c6:51:PRO:O	17:c6:55:VAL:HG12	1.91	0.70
6:F:61:VAL:O	6:F:65:LEU:HD12	1.92	0.70
10:J:112:TRP:O	10:J:116:HIS:HB2	1.91	0.70
31:CD:79:ASN:HD22	31:CD:165:VAL:HG12	1.57	0.70
31:CD:140:ASN:O	31:CD:144:ASN:HA	1.92	0.70
33:CE:113:GLU:HB3	33:CE:176:ALA:HB2	1.74	0.70
34:AF:19:ARG:HD2	34:AF:33:ARG:HB2	1.74	0.70
35:1:1349:G:O2'	35:1:1350:A:O4'	2.10	0.70
35:AR:2400:G:O2'	35:AR:2401:A:OP1	2.10	0.70
60:DI:103:LYS:HD3	60:DI:104:VAL:H	1.56	0.70
73:b:23:CYS:CB	73:b:74:CYS:HB3	2.22	0.70
1:sR:696:C:O2	80:sR:1930:OHX:N3	2.25	0.70
1:sR:770:A:OP2	80:sR:1992:OHX:N3	2.24	0.70
1:sR:801:G:OP2	80:sR:2188:OHX:N4	2.24	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:802:G:H21	23:d2:107:SER:HB2	1.56	0.70
7:s5:142:PRO:O	7:s5:162:VAL:HG11	1.92	0.70
1:A:108:A:H2'	1:A:109:G:C8	2.27	0.69
1:A:407:A:H2'	1:A:408:C:C6	2.27	0.69
1:A:567:A:H5'	77:f:10:ARG:HB3	1.74	0.69
1:A:1482:C:OP2	1:A:1521:G:N1	2.23	0.69
3:C:32:ILE:HD12	3:C:96:LEU:HD23	1.74	0.69
12:L:32:HIS:HB3	12:L:35:ILE:HB	1.73	0.69
16:Q:32:ASP:OD1	16:Q:35:LYS:NZ	2.25	0.69
35:1:2258:U:OP2	80:1:3454:OHX:N2	2.25	0.69
35:1:2767:U:O2'	68:AP:30:ALA:O	2.09	0.69
68:DQ:15:LYS:HA	68:DQ:18:ARG:CG	2.21	0.69
79:h:81:LEU:HD11	79:h:122:ILE:HD13	1.72	0.69
79:h:178:VAL:HG13	79:h:192:PHE:HB2	1.72	0.69
19:c8:63:GLN:HA	19:c8:66:LEU:HB3	1.73	0.69
1:A:1413:U:O2'	80:A:2133:OHX:N5	2.25	0.69
4:D:140:ARG:NH2	22:W:1:MET:SD	2.64	0.69
15:P:14:PHE:HA	15:P:78:ALA:O	1.92	0.69
31:CD:9:ARG:NH2	35:AR:912:G:OP2	2.24	0.69
31:CD:128:ARG:NH1	35:AR:2177:G:OP2	2.25	0.69
33:CE:286:GLY:HA3	33:CE:321:PHE:CE1	2.26	0.69
31:j:30:ARG:O	31:j:163:ARG:NH2	2.19	0.69
39:m:287:ALA:O	39:m:290:ILE:HG13	1.91	0.69
47:u:72:LEU:HD12	47:u:73:PRO:HD2	1.72	0.69
35:AR:2588:U:OP1	42:CJ:48:ARG:NH2	2.22	0.69
35:AR:2945:G:O2'	35:AR:2948:C:OP2	2.08	0.69
35:AR:3291:G:H2'	35:AR:3292:A:C8	2.26	0.69
80:AR:4234:OHX:N6	57:CY:34:SER:OG	2.25	0.69
42:CJ:128:LYS:HD2	42:CJ:129:PRO:HD2	1.74	0.69
79:h:168:THR:HG22	79:h:182:ASN:HA	1.73	0.69
1:sR:696:C:O2	80:sR:1930:OHX:N6	2.25	0.69
13:c1:78:THR:HA	13:c1:84:ILE:HG22	1.75	0.69
1:A:1297:G:N2	1:A:1300:A:OP2	2.22	0.69
3:C:38:PHE:HB3	3:C:74:GLN:OE1	1.92	0.69
14:O:132:VAL:HG23	14:O:134:VAL:HG13	1.73	0.69
34:AF:63:THR:HA	34:AF:66:LEU:HD22	1.73	0.69
40:n:9:TRP:HD1	40:n:10:TYR:N	1.91	0.69
47:u:92:GLU:N	47:u:92:GLU:OE1	2.22	0.69
51:y:158:HIS:H	51:y:186:VAL:HG12	1.58	0.69
35:AR:764:U:H3'	35:AR:765:C:H5"	1.74	0.69
75:d:42:ARG:HD3	75:d:43:ASN:H	1.58	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:251:A:H2	6:s4:131:LEU:HD12	1.57	0.69
24:d3:125:VAL:HG23	24:d3:126:LYS:HG3	1.74	0.69
1:A:638:U:O4'	9:I:114:ARG:NH1	2.25	0.69
1:A:1418:G:N7	80:A:1901:OHX:N3	2.39	0.69
2:B:31:VAL:HG13	2:B:34:GLU:HG3	1.72	0.69
4:D:165:VAL:HG21	4:D:210:THR:HA	1.73	0.69
11:K:65:LYS:HD3	11:K:70:LEU:HD21	1.75	0.69
12:L:50:THR:HG22	12:L:55:VAL:HG13	1.72	0.69
14:O:151:ASN:OD1	80:O:201:OHX:N3	2.25	0.69
17:R:87:LYS:NZ	17:R:116:LEU:O	2.22	0.69
29:DD:17:HIS:O	80:DD:101:OHX:N1	2.25	0.69
35:1:1675:G:H2'	35:1:1676:A:H8	1.57	0.69
35:1:2960:C:H2'	35:1:2961:G:H8	1.56	0.69
31:j:32:LEU:HD13	31:j:163:ARG:HD2	1.75	0.69
45:s:7:ASN:N	45:s:7:ASN:OD1	2.25	0.69
35:AR:1018:G:H2'	35:AR:1019:G:O4'	1.91	0.69
35:AR:2213:A:H2'	35:AR:2214:A:H8	1.56	0.69
1:sR:66:U:OP2	8:s6:136:LYS:NZ	2.26	0.69
1:sR:871:G:H2'	1:sR:872:G:C8	2.27	0.69
1:sR:1207:C:H42	1:sR:1456:C:H5	1.40	0.69
2:B:180:GLU:O	2:B:184:LEU:HG	1.93	0.69
3:C:106:THR:OG1	3:C:108:ASP:OD1	2.11	0.69
7:G:43:PHE:N	7:G:46:TRP:O	2.20	0.69
9:I:23:ALA:HB1	9:I:84:LYS:HD2	1.75	0.69
16:Q:85:ILE:HG12	16:Q:114:HIS:O	1.93	0.69
35:1:1840:U:OP2	80:1:3486:OHX:N5	2.25	0.69
27:9:38:GLU:HG2	27:9:39:LEU:HD23	1.72	0.69
35:AR:2585:G:N7	42:CJ:47:SER:OG	2.24	0.69
43:CK:112:ILE:HD11	43:CK:134:ILE:HG12	1.74	0.69
66:DO:124:LYS:O	66:DO:126:LYS:NZ	2.18	0.69
1:sR:367:A:OP1	80:sR:2023:OHX:N3	2.26	0.69
1:sR:1114:G:O6	80:sR:1969:OHX:N6	2.25	0.69
79:Rb:19:TRP:N	79:Rb:38:ARG:HB2	2.08	0.69
1:A:221:A:OP2	1:A:832:U:O2'	2.09	0.69
1:A:1284:C:O2	80:A:1971:OHX:N4	2.26	0.69
2:B:56:LYS:HB3	2:B:160:ILE:HG22	1.74	0.69
2:B:63:ILE:CD1	2:B:144:ILE:HD11	2.23	0.69
4:D:111:VAL:O	4:D:136:VAL:HA	1.92	0.69
6:F:150:PRO:HB2	6:F:154:ILE:HG21	1.75	0.69
35:1:25:U:O4	80:1:3404:OHX:N3	2.25	0.69
49:w:181:ALA:O	49:w:184:THR:HG22	1.93	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:24:G:OP2	80:AR:3408:OHX:N3	2.26	0.69
35:AR:655:C:H2'	35:AR:656:A:C8	2.27	0.69
35:AR:1251:A:H2'	35:AR:1252:A:H8	1.56	0.69
35:AR:1538:G:OP2	80:AR:3508:OHX:N4	2.26	0.69
52:CT:95:TRP:CZ2	52:CT:99:LEU:HD12	2.27	0.69
79:h:74:THR:HG21	79:h:79:TYR:H	1.57	0.69
1:sR:741:C:O2	9:s7:107:ARG:NH2	2.25	0.69
1:sR:827:C:H2'	1:sR:828:U:H6	1.57	0.69
15:c4:87:GLY:HA3	15:c4:120:PRO:HG2	1.72	0.69
1:A:45:U:O2'	1:A:46:A:H2'	1.93	0.69
2:B:88:LYS:NZ	18:S:82:ASP:OD2	2.24	0.69
7:G:37:GLN:HB3	17:R:53:LEU:HD23	1.74	0.69
21:V:20:ILE:HD12	21:V:21:LYS:N	2.06	0.69
35:1:1010:G:N2	44:r:193:ASP:OD1	2.24	0.69
31:j:134:VAL:HG12	31:j:151:PRO:HD3	1.74	0.69
35:AR:728:G:OP1	80:AR:3684:OHX:N6	2.25	0.69
35:AR:978:G:O2'	35:AR:979:U:O2	2.11	0.69
35:AR:1486:G:O6	80:AR:3584:OHX:N4	2.25	0.69
72:d5:90:LYS:HD2	72:d5:91:PRO:HD2	1.75	0.69
1:A:38:C:H2'	1:A:39:A:H5'	1.74	0.69
1:A:68:A:OP1	8:H:160:ARG:NH1	2.25	0.69
1:A:329:G:H2'	1:A:330:G:H8	1.58	0.69
1:A:591:A:H2'	1:A:592:A:C8	2.26	0.69
1:A:647:G:H22	1:A:687:G:H1	1.40	0.69
1:A:1291:G:H22	1:A:1324:G:H22	1.38	0.69
3:C:29:TRP:HD1	3:C:47:LEU:HB2	1.58	0.69
7:G:42:LEU:HD12	7:G:43:PHE:O	1.92	0.69
9:I:173:TYR:HE1	9:I:179:LYS:HB2	1.56	0.69
16:Q:16:SER:OG	19:T:93:THR:O	2.11	0.69
19:T:6:GLN:HG2	72:a:42:LEU:CD1	2.20	0.69
19:T:32:LEU:O	19:T:35:ILE:HD12	1.93	0.69
35:1:541:U:O4	80:1:4167:OHX:N2	2.25	0.69
37:4:75:G:OP2	27:9:74:TYR:OH	2.11	0.69
44:r:52:LEU:HB3	44:r:136:PHE:HB2	1.73	0.69
49:w:189:ASP:O	49:w:193:GLN:HG3	1.93	0.69
52:z:168:ALA:O	52:z:172:ARG:HG3	1.93	0.69
55:5:77:LYS:O	55:5:81:LYS:HG2	1.93	0.69
56:6:79:VAL:HG23	56:6:80:ARG:HG3	1.75	0.69
35:AR:599:C:OP1	38:CF:332:LYS:NZ	2.22	0.69
35:AR:1110:U:H2'	35:AR:1111:U:C6	2.28	0.69
35:AR:1194:G:OP1	80:AR:3516:OHX:N6	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:2672:G:O3'	45:CM:95:ASN:HA	1.91	0.69
35:AR:3056:U:OP2	80:AR:3442:OHX:N2	2.26	0.69
71:p0:94:THR:HA	71:p0:97:LYS:HB3	1.73	0.69
79:h:169:ILE:HG12	79:h:183:LEU:HD11	1.74	0.69
1:sR:250:C:H2'	1:sR:251:A:C8	2.28	0.69
79:Rb:161:LYS:HD2	79:Rb:162:ALA:H	1.58	0.69
7:s5:189:THR:HG23	7:s5:192:GLU:H	1.57	0.69
9:s7:162:ILE:HG22	9:s7:165:LYS:HD3	1.74	0.69
16:Q:121:ILE:HG22	16:Q:123:TYR:H	1.57	0.69
35:1:2406:C:H2'	35:1:2407:C:C6	2.27	0.69
35:1:3233:C:H2'	35:1:3234:A:C8	2.27	0.69
37:4:9:A:H2'	37:4:10:A:C8	2.28	0.69
33:k:286:GLY:HA3	33:k:321:PHE:CE2	2.28	0.69
49:w:3:VAL:HG22	49:w:4:GLU:HG3	1.74	0.69
64:AL:12:LEU:O	64:AL:15:THR:OG1	2.09	0.69
35:AR:2953:U:H2'	35:AR:2954:U:H2'	1.75	0.69
61:DJ:7:TYR:HA	61:DJ:10:ARG:HD2	1.74	0.69
1:sR:1482:C:OP2	1:sR:1521:G:N1	2.26	0.69
79:Rb:20:VAL:CG2	79:Rb:304:GLY:HA3	2.23	0.69
74:d7:36:LYS:HD2	74:d7:42:ASN:C	2.18	0.69
2:B:28:ASN:HA	2:B:46:HIS:CE1	2.27	0.69
3:C:106:THR:O	3:C:110:LEU:HD12	1.92	0.69
9:I:51:VAL:HG23	9:I:53:GLY:H	1.57	0.69
20:U:62:ALA:HA	20:U:65:ILE:HG22	1.73	0.69
28:AB:36:GLY:HA3	28:AB:40:HIS:CE1	2.28	0.69
35:1:1717:U:H2'	35:1:1718:G:C8	2.28	0.69
43:q:109:ALA:HB1	43:q:111:PHE:CE2	2.28	0.69
68:AP:16:THR:HG21	68:AP:77:CYS:HB2	1.75	0.69
35:AR:119:U:H4'	35:AR:120:G:H3'	1.73	0.69
35:AR:407:A:C2	37:AT:17:A:H1'	2.28	0.69
35:AR:566:G:N7	80:AR:3628:OHX:N5	2.40	0.69
35:AR:1534:A:H2'	35:AR:1535:A:C8	2.28	0.69
35:AR:2259:A:OP2	80:AR:3449:OHX:N1	2.26	0.69
34:DG:16:LYS:NZ	34:DG:17:PHE:O	2.25	0.69
1:sR:1203:A:OP2	80:sR:1984:OHX:N1	2.26	0.69
6:s4:45:ILE:HA	6:s4:61:VAL:HG11	1.74	0.69
6:s4:141:THR:OG1	6:s4:143:ASP:OD1	2.11	0.69
1:A:1619:C:O4'	75:d:21:SER:OG	2.11	0.68
2:B:79:ARG:NH2	2:B:164:ASN:HB2	2.07	0.68
6:F:133:LYS:O	6:F:136:VAL:HG12	1.93	0.68
10:J:5:ARG:NH1	10:J:29:LEU:O	2.25	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:655:C:H2'	35:1:656:A:C8	2.28	0.68
39:m:155:THR:OG1	39:m:179:ARG:NH1	2.26	0.68
27:9:54:ASP:OD2	27:9:115:ARG:NH2	2.25	0.68
35:AR:3280:U:O2'	35:AR:3281:U:O5'	2.11	0.68
37:AT:139:U:O4	80:AT:211:OHX:N5	2.26	0.68
79:Rb:203:THR:H	79:Rb:212:ALA:HB3	1.56	0.68
72:d5:92:ILE:HG23	72:d5:100:ILE:CD1	2.23	0.68
3:C:126:THR:HA	3:C:135:LEU:O	1.92	0.68
3:C:127:VAL:HG11	3:C:173:THR:HG22	1.74	0.68
34:AF:100:ILE:O	34:AF:125:ARG:NH1	2.25	0.68
35:1:1015:U:O2'	35:1:1017:C:OP2	2.11	0.68
46:t:76:THR:O	46:t:79:GLU:N	2.25	0.68
47:CO:47:ASP:HB3	47:CO:81:VAL:HG11	1.76	0.68
78:g:113:LYS:O	78:g:113:LYS:HD2	1.93	0.68
1:sR:566:C:O2	77:e0:13:LYS:NZ	2.22	0.68
1:sR:1353:U:H2'	1:sR:1354:G:H8	1.57	0.68
1:sR:1477:G:H2'	1:sR:1478:G:C8	2.29	0.68
5:s3:140:GLY:HA3	5:s3:182:LEU:HD11	1.73	0.68
5:s3:220:PRO:O	5:s3:221:SER:HB2	1.91	0.68
9:s7:14:THR:O	9:s7:18:LEU:HD12	1.93	0.68
15:P:12:GLN:HG2	15:P:77:THR:HG21	1.75	0.68
19:T:115:ARG:O	19:T:119:ILE:HD12	1.94	0.68
27:DA:53:ASP:HB2	27:DA:110:HIS:CD2	2.28	0.68
35:1:284:A:OP2	68:AP:41:ARG:NH1	2.26	0.68
35:1:673:U:OP1	51:y:21:SER:OG	2.10	0.68
35:AR:994:G:O6	80:AR:3651:OHX:N1	2.26	0.68
40:CH:35:VAL:O	40:CH:38:THR:OG1	2.08	0.68
1:sR:125:U:H5"	6:s4:148:ARG:NH1	2.08	0.68
5:s3:70:THR:HG22	5:s3:86:LEU:HD13	1.75	0.68
6:s4:87:MET:HE3	6:s4:123:LEU:HB2	1.75	0.68
16:c5:107:ILE:HA	16:c5:111:MET:HE1	1.75	0.68
1:A:992:A:H2'	1:A:993:A:H5'	1.74	0.68
1:A:1202:A:H1'	1:A:1207:C:H42	1.56	0.68
3:C:129:THR:OG1	3:C:131:ASP:O	2.09	0.68
9:I:74:GLN:O	9:I:78:THR:HG22	1.93	0.68
35:AR:2534:G:H2'	35:AR:2536:A:N7	2.08	0.68
64:DM:64:LYS:HZ1	64:DM:68:SER:HB2	1.55	0.68
1:sR:961:U:H5"	14:c3:71:ILE:HD13	1.76	0.68
7:s5:20:PHE:CD1	7:s5:35:GLN:HB2	2.28	0.68
7:s5:37:GLN:NE2	7:s5:43:PHE:O	2.26	0.68
1:A:641:G:N2	1:A:693:U:O2	2.21	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:H:57:ASP:HA	8:H:106:LEU:HA	1.75	0.68
12:L:80:LEU:HD12	12:L:82:LEU:HD21	1.76	0.68
25:Z:34:ASN:HD22	25:Z:62:THR:HG21	1.58	0.68
35:1:2697:A:H2'	35:1:2698:G:C8	2.29	0.68
80:1:4159:OHX:N3	52:z:14:VAL:O	2.27	0.68
64:AL:46:ARG:HD2	64:AL:51:LEU:HD12	1.75	0.68
35:AR:764:U:O4	80:AR:3541:OHX:N4	2.26	0.68
35:AR:1734:G:N7	80:AR:3470:OHX:N2	2.42	0.68
35:AR:2269:U:O2'	35:AR:2270:A:H8	1.75	0.68
79:Rb:229:LYS:HA	5:s3:222:VAL:HG11	1.75	0.68
9:s7:73:VAL:CG2	9:s7:76:LYS:HG2	2.24	0.68
11:s9:109:LEU:CD2	11:s9:129:ILE:HG12	2.24	0.68
1:A:743:U:H5"	9:I:108:GLN:NE2	2.09	0.68
3:C:92:GLN:H	3:C:95:ASN:HB2	1.59	0.68
6:F:98:ASN:HD22	6:F:119:ALA:CB	2.07	0.68
35:1:2438:A:H2'	35:1:2439:A:H8	1.59	0.68
35:1:2615:G:H2'	35:1:2616:C:H6	1.57	0.68
36:3:22:A:H2'	36:3:23:A:C8	2.29	0.68
36:3:53:U:H5'	80:3:223:OHX:N4	2.09	0.68
43:q:132:VAL:HG21	43:q:157:ASN:HD22	1.59	0.68
38:CF:26:PHE:HD2	38:CF:130:ALA:HB2	1.58	0.68
38:CF:156:LEU:HA	38:CF:159:ILE:HG13	1.75	0.68
45:CM:153:LYS:HD2	45:CM:154:THR:H	1.57	0.68
64:DM:44:LYS:HB3	64:DM:51:LEU:HD11	1.75	0.68
11:s9:83:VAL:O	11:s9:107:ARG:NH1	2.26	0.68
1:A:273:G:H1	1:A:283:U:H3	1.40	0.68
1:A:772:G:H21	1:A:774:A:H1'	1.58	0.68
1:A:1500:C:OP1	20:U:106:GLN:NE2	2.26	0.68
5:E:148:LYS:HB2	70:i:110:TRP:CZ2	2.28	0.68
26:AA:41:ALA:HB2	26:AA:77:TYR:HE1	1.58	0.68
26:AA:90:GLU:N	26:AA:90:GLU:OE1	2.26	0.68
35:1:531:G:H2'	35:1:532:A:C8	2.28	0.68
68:AP:45:ARG:HH11	68:AP:45:ARG:HG3	1.58	0.68
35:AR:3019:U:O4	80:AR:3486:OHX:N4	2.27	0.68
42:CJ:100:GLU:HB3	42:CJ:104:GLU:HG3	1.75	0.68
72:a:83:LEU:HB3	72:a:88:ILE:HG13	1.74	0.68
20:c9:54:PHE:CZ	20:c9:104:VAL:HG12	2.28	0.68
1:A:260:U:OP2	10:J:41:LYS:NZ	2.27	0.68
1:A:1572:G:H1'	7:G:185:ARG:NH2	2.08	0.68
1:A:1628:U:H2'	1:A:1629:G:H8	1.57	0.68
3:C:218:LEU:HD23	3:C:219:LYS:H	1.59	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:121:A:C2	42:p:129:PRO:HB3	2.28	0.68
35:1:1027:A:H2'	35:1:1029:G:H5"	1.76	0.68
35:AR:255:A:H2'	35:AR:256:G:C8	2.29	0.68
35:AR:314:U:O4	80:AR:3672:OHX:N5	2.27	0.68
35:AR:1127:G:OP2	44:CL:98:ARG:NH1	2.26	0.68
41:CI:86:VAL:HG22	41:CI:136:TYR:HB3	1.76	0.68
43:CK:48:VAL:HG11	43:CK:52:LEU:HD23	1.74	0.68
79:h:172:ALA:HB2	79:h:202:LEU:CD1	2.19	0.68
79:Rb:5:GLU:HA	79:Rb:317:THR:HA	1.76	0.68
2:s0:78:SER:OG	2:s0:129:ASP:OD1	2.11	0.68
8:s6:10:ASN:HB3	8:s6:128:THR:HA	1.74	0.68
25:d4:38:ASP:OD1	25:d4:52:LYS:NZ	2.26	0.68
1:A:1618:C:O3'	80:A:2159[A]:OHX:N2	2.26	0.68
7:G:107:LYS:O	7:G:111:VAL:HG23	1.93	0.68
35:1:265:A:O3'	48:v:5:LYS:NZ	2.27	0.68
35:1:535:G:O6	80:1:3553:OHX:N3	2.27	0.68
35:1:1845:G:O2'	63:AK:5:THR:HG22	1.93	0.68
35:1:2438:A:H2'	35:1:2439:A:C8	2.29	0.68
43:q:67:ALA:O	43:q:71:VAL:HG23	1.94	0.68
50:x:41:LEU:O	50:x:45:GLN:HG2	1.94	0.68
51:y:57:ILE:H	51:y:57:ILE:HD12	1.58	0.68
56:6:15:LEU:HA	56:6:53:SER:HB3	1.76	0.68
35:AR:2534:G:O6	80:AR:3544:OHX:N6	2.27	0.68
35:AR:3157:U:H4'	35:AR:3158:G:H5'	1.73	0.68
60:DI:103:LYS:HD3	60:DI:104:VAL:HG12	1.76	0.68
79:h:228:LYS:C	79:h:229:LYS:HD2	2.18	0.68
2:s0:84:ARG:NH1	18:c7:82:ASP:OD1	2.27	0.68
1:A:1449:U:H2'	1:A:1450:U:C6	2.29	0.68
4:D:227:PRO:HA	4:D:230:TRP:CE2	2.28	0.68
11:K:163:PRO:HA	11:K:166:GLY:HA2	1.76	0.68
20:U:37:VAL:CG1	20:U:100:ILE:HD11	2.24	0.68
70:i:79:SER:O	70:i:82:THR:OG1	2.11	0.68
35:AR:145:G:O6	80:AR:3520:OHX:N5	2.26	0.68
35:AR:252:U:H5'	35:AR:253:A:H5'	1.76	0.68
35:AR:2916:U:H1'	56:CX:44:SER:HB3	1.76	0.68
79:h:114:ASP:OD2	79:h:156:VAL:N	2.27	0.68
1:sR:475:A:OP2	11:s9:126:ARG:NH1	2.26	0.68
1:sR:804:A:N3	23:d2:105:THR:HG22	2.09	0.68
1:sR:1381:U:OP1	80:sR:2024:OHX:N4	2.27	0.68
7:s5:190:ILE:HA	7:s5:193:THR:HG22	1.75	0.68
9:s7:77:LEU:O	9:s7:81:LEU:HD12	1.94	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:269:G:O6	8:H:186:ARG:NH2	2.27	0.67
1:A:1508:U:O4	80:A:1973:OHX:N2	2.27	0.67
2:B:140:ASN:HD21	22:W:29:HIS:HA	1.58	0.67
6:F:75:LYS:HD3	6:F:76:VAL:HG23	1.75	0.67
16:Q:98:ASN:ND2	16:Q:121:ILE:O	2.18	0.67
35:1:86:G:O2'	35:1:98:G:O6	2.09	0.67
33:k:361:THR:HG23	33:k:371:GLN:HB3	1.75	0.67
39:m:243:ALA:O	39:m:247:ILE:HG13	1.95	0.67
49:w:55:HIS:HA	49:w:58:LEU:HD13	1.75	0.67
53:0:80:ARG:HB3	53:0:122:HIS:HB2	1.75	0.67
55:5:93:ILE:HA	55:5:106:ALA:O	1.94	0.67
62:AJ:50:LEU:HD22	62:AJ:90:MET:HE1	1.77	0.67
35:AR:297:G:OP2	35:AR:297:G:N2	2.25	0.67
35:AR:3198:U:H1'	43:CK:21:LYS:HB2	1.76	0.67
39:CG:217:GLU:N	39:CG:217:GLU:OE2	2.26	0.67
42:CJ:150:LEU:HD13	42:CJ:176:PRO:HB2	1.76	0.67
59:DH:85:PHE:O	80:DH:202:OHX:N4	2.27	0.67
1:sR:1130:G:OP2	80:sR:1969:OHX:N1	2.27	0.67
9:s7:91:ILE:HG12	9:s7:129:LEU:HD23	1.76	0.67
6:F:248:ILE:HD12	6:F:249:ALA:H	1.59	0.67
9:I:98:ILE:HG22	9:I:121:VAL:HG11	1.76	0.67
11:K:45:ILE:HA	11:K:48:GLN:OE1	1.93	0.67
20:U:52:GLY:HA2	20:U:55:TYR:HE1	1.58	0.67
35:1:1019:G:H5"	70:i:49:LYS:HD2	1.76	0.67
35:1:1213:G:H4'	53:0:90:MET:HG2	1.77	0.67
35:1:1552:G:OP2	80:1:3612:OHX:N3	2.27	0.67
46:t:153:ASP:OD1	46:t:154:VAL:N	2.25	0.67
49:w:140:LYS:NZ	49:w:150:GLU:OE2	2.27	0.67
35:AR:2960:C:H2'	35:AR:2961:G:H8	1.58	0.67
55:CW:19:VAL:O	55:CW:23:THR:HG23	1.93	0.67
34:DG:86:THR:HG22	34:DG:115:LEU:HD22	1.75	0.67
78:g:123:ASN:HD21	78:g:148:TYR:HB2	1.59	0.67
79:Rb:220:ILE:HD11	79:Rb:243:LEU:CD2	2.25	0.67
6:s4:18:TRP:HH2	6:s4:31:PRO:HD3	1.57	0.67
7:s5:114:ILE:HA	7:s5:117:THR:HG22	1.76	0.67
1:A:542:A:H3'	1:A:543:C:H5'	1.76	0.67
1:A:1225:U:H2'	1:A:1226:A:O4'	1.94	0.67
6:F:248:ILE:HD12	6:F:249:ALA:N	2.09	0.67
13:M:34:TRP:CH2	13:M:36:LYS:HD3	2.30	0.67
33:CE:274:SER:OG	35:AR:3139:A:OP1	2.13	0.67
35:1:2403:G:OP2	87:1:4202:HOH:O	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:q:128:VAL:HA	43:q:157:ASN:HD21	1.58	0.67
64:AL:63:LYS:O	64:AL:66:ILE:HG22	1.94	0.67
35:AR:838:G:O6	69:DR:4:ARG:NH2	2.27	0.67
79:h:264:SER:O	79:h:268:GLN:HA	1.93	0.67
1:sR:915:A:OP1	80:sR:1927:OHX:N6	2.27	0.67
1:sR:1477:G:H2'	1:sR:1478:G:H8	1.58	0.67
79:Rb:172:ALA:HB1	79:Rb:199:ILE:HD13	1.76	0.67
79:Rb:222:LEU:HD11	79:Rb:232:TYR:H	1.59	0.67
4:s2:179:VAL:O	4:s2:198:THR:OG1	2.13	0.67
2:B:63:ILE:HD11	2:B:144:ILE:HD11	1.76	0.67
7:G:170:GLN:O	7:G:174:LEU:HG	1.94	0.67
18:S:84:TYR:HD1	18:S:85:VAL:H	1.43	0.67
35:1:3224:G:N7	80:1:3419:OHX:N1	2.43	0.67
35:AR:398:A:H5"	50:CR:3:ARG:HD3	1.76	0.67
35:AR:968:G:O6	80:AR:4233:OHX:N6	2.27	0.67
34:DG:104:ASN:O	34:DG:108:ILE:HG12	1.94	0.67
5:s3:74:GLN:NE2	5:s3:81:PRO:HD3	2.09	0.67
7:s5:121:ILE:HG22	7:s5:199:ILE:HD11	1.77	0.67
15:c4:13:VAL:H	15:c4:77:THR:HG23	1.60	0.67
21:d0:28:SER:OG	21:d0:111:GLY:O	2.09	0.67
73:d6:57:SER:OG	73:d6:58:VAL:O	2.11	0.67
19:T:128:PHE:HD2	70:i:61:ILE:HG22	1.59	0.67
35:1:1580:A:H4'	35:1:1581:C:H5'	1.75	0.67
52:z:11:ALA:O	52:z:15:VAL:HG12	1.94	0.67
69:DR:49:ARG:HG2	69:DR:50:GLY:H	1.58	0.67
79:h:73:LEU:HG	79:h:81:LEU:H	1.60	0.67
2:s0:118:PRO:HG2	2:s0:141:ILE:HD13	1.77	0.67
25:d4:55:VAL:HG23	25:d4:75:VAL:HG12	1.75	0.67
1:A:1473:U:O3'	7:G:109:LYS:NZ	2.27	0.67
12:L:16:PHE:HB2	12:L:76:LEU:HD12	1.75	0.67
12:L:80:LEU:HD13	12:L:80:LEU:O	1.94	0.67
20:U:54:PHE:CE1	20:U:104:VAL:HG23	2.29	0.67
23:X:115:GLU:HG3	23:X:119:LYS:HZ1	1.60	0.67
26:DB:5:LEU:HG	26:DB:77:TYR:HE2	1.60	0.67
39:m:232:ASP:O	39:m:235:SER:OG	2.13	0.67
40:n:31:ARG:NH2	40:n:81:ALA:O	2.28	0.67
44:r:170:LYS:HA	44:r:177:ASP:HA	1.77	0.67
35:AR:92:G:H5'	35:AR:93:C:H5"	1.76	0.67
35:AR:1234:G:N7	80:AR:3452:OHX:N5	2.43	0.67
35:AR:2534:G:N2	35:AR:2535:A:H62	1.93	0.67
69:DR:76:ALA:O	69:DR:80:ARG:HG3	1.95	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:161:LYS:HB3	6:s4:170:THR:O	1.95	0.67
11:s9:46:SER:O	11:s9:50:SER:OG	2.10	0.67
1:A:33:U:O4	80:A:1918:OHX:N1	2.28	0.67
1:A:438:A:OP1	80:A:1908:OHX:N1	2.27	0.67
1:A:585:A:H2'	1:A:586:G:C8	2.30	0.67
25:Z:84:LYS:HG3	25:Z:85:PHE:HD1	1.60	0.67
35:1:1626:U:O4	80:1:3633:OHX:N6	2.27	0.67
35:1:2160:G:H2'	35:1:2161:G:H8	1.58	0.67
35:1:2882:U:H2'	35:1:2883:U:C6	2.30	0.67
48:v:122:ASN:OD1	48:v:123:GLN:N	2.27	0.67
35:AR:503:C:H2'	35:AR:504:A:H8	1.59	0.67
35:AR:533:A:OP2	80:AR:3587:OHX:N6	2.27	0.67
35:AR:2123:G:O6	80:AR:3602:OHX:N5	2.27	0.67
72:a:46:LYS:HZ1	72:a:70:LYS:HA	1.60	0.67
1:sR:992:A:OP1	80:sR:1910:OHX:N5	2.28	0.67
2:s0:177:LEU:O	2:s0:181:VAL:HG23	1.94	0.67
12:c0:55:VAL:HG21	12:c0:66:TYR:HB3	1.77	0.67
2:B:34:GLU:OE2	2:B:149:LEU:HA	1.95	0.67
5:E:164:VAL:O	5:E:168:ILE:HG13	1.95	0.67
7:G:36:ALA:O	17:R:53:LEU:HD22	1.95	0.67
35:1:3215:A:H5"	59:AG:2:ALA:HB2	1.77	0.67
55:5:15:PHE:HB2	55:5:65:VAL:HG22	1.77	0.67
65:AM:9:ILE:O	65:AM:13:MET:HG3	1.95	0.67
35:AR:1765:U:H5	52:CT:46:LYS:HE2	1.59	0.67
45:CM:156:LYS:O	45:CM:160:VAL:HG13	1.95	0.67
53:CU:10:ILE:HG12	53:CU:26:ARG:HB2	1.77	0.67
68:DQ:53:GLN:NE2	68:DQ:55:LYS:O	2.19	0.67
69:DR:49:ARG:HB2	69:DR:55:TRP:CZ3	2.30	0.67
69:DR:78:THR:O	69:DR:82:THR:HG23	1.95	0.67
75:d:10:ALA:HB1	75:d:30:VAL:HB	1.76	0.67
78:g:123:ASN:HB2	78:g:126:CYS:HB2	1.76	0.67
1:sR:79:C:OP1	8:s6:159:ARG:NH2	2.27	0.67
1:sR:564:G:N2	1:sR:577:G:OP1	2.27	0.67
1:sR:1058:U:H4'	1:sR:1059:U:OP1	1.93	0.67
5:s3:217:ILE:HG12	5:s3:219:ALA:H	1.59	0.67
6:s4:107:GLY:HA2	6:s4:189:LEU:HD22	1.75	0.67
20:c9:135:ILE:HA	20:c9:138:GLN:HE22	1.60	0.67
1:A:591:A:H2'	1:A:592:A:H8	1.59	0.67
1:A:938:G:N7	80:A:1939:OHX:N2	2.43	0.67
35:1:528:U:H2'	35:1:529:A:H8	1.59	0.67
35:1:1116:G:O5'	87:1:4204:HOH:O	2.13	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1235:U:O4	35:1:1263:A:N6	2.28	0.67
35:1:2679:A:O2'	45:s:52:TYR:OH	2.07	0.67
33:k:160:VAL:HG13	33:k:183:LEU:HD11	1.76	0.67
56:6:87:ARG:HH22	56:6:137:VAL:CG2	2.07	0.67
35:AR:2736:A:OP1	54:CV:92:ARG:NH1	2.28	0.67
35:AR:3343:G:H21	35:AR:3362:A:H2	1.43	0.67
45:CM:108:GLU:OE2	19:c8:118:LYS:NZ	2.28	0.67
61:DJ:12:LYS:NZ	61:DJ:20:GLN:HE22	1.92	0.67
1:sR:31:C:OP1	24:d3:140:LYS:NZ	2.24	0.67
1:sR:513:U:H2'	1:sR:514:G:C8	2.30	0.67
1:sR:887:A:H1'	15:c4:122:PRO:HB3	1.76	0.67
6:s4:70:VAL:HG22	6:s4:92:LEU:HD22	1.76	0.67
10:s8:120:THR:O	80:s8:302:OHX:N6	2.28	0.67
11:s9:146:PHE:HE1	11:s9:149:ARG:HH12	1.42	0.67
14:c3:71:ILE:HA	14:c3:74:ILE:HD12	1.76	0.67
25:d4:20:ARG:NH2	25:d4:22:GLN:OE1	2.25	0.67
73:d6:88:SER:OG	73:d6:91:ASP:OD2	2.13	0.67
76:d9:19:ARG:O	76:d9:19:ARG:HG3	1.94	0.67
21:V:26:LEU:HD22	21:V:114:VAL:HA	1.77	0.67
35:1:778:U:O4	80:1:3508:OHX:N2	2.28	0.67
35:1:1667:A:H2'	35:1:1668:G:C8	2.30	0.67
31:j:3:ARG:HB2	31:j:207:VAL:HG22	1.76	0.67
54:2:51:GLY:HA3	54:2:92:ARG:HG3	1.77	0.67
68:AP:16:THR:CG2	68:AP:77:CYS:HB2	2.25	0.67
35:AR:972:A:OP1	51:CS:12:ARG:NH2	2.28	0.67
45:CM:135:GLY:O	45:CM:138:VAL:HG12	1.95	0.67
1:sR:488:G:H21	1:sR:499:U:H3	1.42	0.67
10:s8:50:GLY:O	10:s8:52:ASN:ND2	2.28	0.67
11:s9:124:HIS:O	11:s9:128:LEU:HD12	1.94	0.67
15:c4:78:ALA:HB2	15:c4:111:ARG:HB2	1.76	0.67
16:c5:96:ILE:HD13	16:c5:116:LEU:HB3	1.76	0.67
74:d7:36:LYS:HD3	74:d7:43:ILE:HG13	1.77	0.67
4:D:179:VAL:O	4:D:198:THR:HB	1.95	0.66
19:T:72:ILE:HD12	19:T:79:TYR:HD2	1.59	0.66
20:U:33:TYR:HD1	20:U:33:TYR:O	1.79	0.66
21:V:41:ILE:HA	21:V:44:ASN:HB2	1.77	0.66
35:1:1554:U:H4'	35:1:1555:U:H5'	1.77	0.66
33:k:280:HIS:HB3	33:k:324:VAL:HG11	1.77	0.66
38:l:327:LEU:HA	41:o:166:ASN:HD21	1.60	0.66
69:AQ:37:TYR:HB2	69:AQ:47:VAL:HG13	1.76	0.66
35:AR:2699:G:OP2	80:AR:3433:OHX:N2	2.28	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CJ:82:LEU:HD13	42:CJ:86:THR:HB	1.75	0.66
55:CW:32:SER:O	55:CW:35:LYS:HG3	1.95	0.66
79:Rb:124:SER:O	79:Rb:154:VAL:HG11	1.94	0.66
79:Rb:200:ASN:H	79:Rb:215:GLY:HA2	1.60	0.66
5:s3:22:ASN:O	5:s3:26:THR:HG23	1.95	0.66
5:s3:63:GLY:O	5:s3:66:ILE:HG13	1.95	0.66
10:s8:101:ILE:HD11	10:s8:192:TYR:CE2	2.30	0.66
1:A:833:U:O4	80:A:1907:OHX:N1	2.28	0.66
1:A:936:G:O6	73:b:15:ARG:HD3	1.95	0.66
1:A:1484:G:H21	1:A:1606:C:H1'	1.57	0.66
1:A:1592:A:H2'	1:A:1593:A:H8	1.60	0.66
4:D:43:ARG:NH2	4:D:249:ALA:HB2	2.11	0.66
5:E:125:TYR:O	5:E:129:SER:OG	2.11	0.66
8:H:2:LYS:HB2	8:H:108:VAL:HG12	1.77	0.66
9:I:100:PRO:O	9:I:112:ARG:NH1	2.27	0.66
33:CE:303:LYS:HD2	33:CE:361:THR:HG21	1.76	0.66
31:j:46:LYS:NZ	31:j:47:GLN:OE1	2.27	0.66
38:l:334:PHE:HA	38:l:339:LEU:HD13	1.76	0.66
39:m:56:THR:HG1	39:m:59:ASP:HB3	1.61	0.66
39:m:68:THR:HG22	39:m:70:THR:H	1.60	0.66
59:AG:49:ILE:HD13	59:AG:100:ILE:HG12	1.77	0.66
35:AR:86:G:O2'	35:AR:98:G:O6	2.11	0.66
35:AR:3182:G:OP1	49:CQ:160:ARG:NH2	2.28	0.66
37:AT:40:A:H2'	37:AT:41:A:H8	1.60	0.66
46:CN:123:ILE:HG22	61:DJ:118:ILE:HG12	1.77	0.66
63:DL:64:MET:O	63:DL:68:LYS:HB2	1.94	0.66
1:sR:760:A:OP2	80:sR:1940:OHX:N3	2.28	0.66
5:s3:208:ILE:HD11	18:c7:16:LEU:HD12	1.77	0.66
19:c8:45:LEU:HD11	19:c8:81:ILE:HG12	1.77	0.66
1:A:459:G:OP1	25:Z:109:LYS:NZ	2.29	0.66
4:D:40:LYS:HA	4:D:43:ARG:HG3	1.76	0.66
8:H:14:LYS:HB2	8:H:124:LEU:HD21	1.77	0.66
23:X:31:SER:H	23:X:34:ILE:HD12	1.59	0.66
26:DB:98:THR:HG23	26:DB:99:GLU:OE2	1.96	0.66
35:1:1354:G:O6	35:1:1358:C:H5'	1.94	0.66
35:1:2294:U:OP2	56:6:71:LYS:NZ	2.25	0.66
39:m:64:ILE:HD12	39:m:109:THR:HG21	1.76	0.66
50:x:167:ARG:O	59:AG:60:ARG:HB2	1.95	0.66
35:AR:118:U:O2	35:AR:121:A:H5'	1.93	0.66
35:AR:3252:G:N7	80:AR:3700[A]:OHX:N2	2.43	0.66
52:CT:175:GLN:HG3	52:CT:178:ALA:HB3	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CV:51:GLY:HA3	54:CV:92:ARG:HG3	1.77	0.66
1:sR:654:C:H2'	1:sR:655:G:H8	1.61	0.66
19:c8:6:GLN:CD	19:c8:6:GLN:H	2.02	0.66
19:c8:17:LEU:O	19:c8:20:THR:OG1	2.09	0.66
25:d4:37:LYS:HA	25:d4:40:LEU:HD13	1.77	0.66
77:e0:41:THR:HA	77:e0:45:VAL:HG22	1.76	0.66
1:A:990:C:OP2	80:A:1942:OHX:N4	2.28	0.66
1:A:1164:G:H2'	1:A:1165:G:H8	1.60	0.66
3:C:176:VAL:HG22	3:C:184:LEU:HD21	1.77	0.66
3:C:197:ILE:O	3:C:201:THR:HG23	1.94	0.66
3:C:218:LEU:HG	3:C:219:LYS:HG3	1.77	0.66
5:E:115:ILE:HD11	5:E:138:VAL:HG11	1.78	0.66
6:F:103:TYR:CD2	6:F:189:LEU:HD21	2.30	0.66
21:V:55:PRO:HA	21:V:91:ILE:HD11	1.77	0.66
32:AE:60:TRP:HZ3	32:AE:64:VAL:HG12	1.59	0.66
35:1:1095:U:H4'	35:1:1096:U:H5"	1.78	0.66
44:r:48:LEU:HD22	44:r:142:ASP:HA	1.77	0.66
53:0:10:ILE:HG12	53:0:26:ARG:HB2	1.77	0.66
35:AR:550:A:O2'	35:AR:551:A:O5'	2.12	0.66
32:DF:54:GLU:OE1	32:DF:54:GLU:N	2.19	0.66
76:e:25:SER:OG	80:e:102:OHX:N1	2.29	0.66
79:h:231:MET:HB2	79:h:232:TYR:HD1	1.60	0.66
1:sR:595:G:OP2	80:sR:1959:OHX:N6	2.29	0.66
2:s0:41:ARG:HG3	2:s0:45:VAL:HB	1.78	0.66
8:s6:69:LEU:O	8:s6:99:GLY:HA3	1.95	0.66
10:s8:184:LEU:HD22	10:s8:188:GLU:HG2	1.77	0.66
20:c9:73:VAL:O	20:c9:77:ASN:ND2	2.27	0.66
1:A:264:G:N7	80:A:2118:OHX:N2	2.43	0.66
1:A:476:U:C2	77:f:31:LYS:HG3	2.31	0.66
3:C:222:LYS:HE3	3:C:223:PHE:H	1.61	0.66
6:F:185:GLY:HA3	6:F:224:ASN:CG	2.20	0.66
9:I:154:LEU:HD21	9:I:183:PHE:CD2	2.28	0.66
19:T:28:ILE:HB	19:T:58:ALA:HA	1.77	0.66
26:DB:63:ALA:HA	26:DB:66:THR:HG22	1.76	0.66
35:1:1078:U:H4'	39:m:46:THR:HG21	1.76	0.66
35:1:1222:G:HO2'	35:1:1285:G:H1	1.42	0.66
58:8:46:TYR:HD1	61:AI:75:TYR:HB3	1.59	0.66
35:AR:1412:G:OP1	34:DG:105:ARG:NH2	2.27	0.66
35:AR:3052:G:H2'	35:AR:3053:G:H8	1.60	0.66
35:AR:3169:U:H2'	35:AR:3170:A:C8	2.29	0.66
75:d:42:ARG:HG3	75:d:56:LEU:HD11	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:12:U:H2'	1:sR:13:C:C6	2.31	0.66
1:sR:826:U:O4	80:sR:1922:OHX:N5	2.28	0.66
1:sR:987:G:N7	80:sR:1975:OHX:N4	2.43	0.66
4:s2:65:GLU:HB2	4:s2:68:ILE:CD1	2.26	0.66
19:c8:63:GLN:CD	19:c8:63:GLN:H	2.04	0.66
20:c9:11:ALA:O	20:c9:15:ILE:HD12	1.94	0.66
1:A:67:A:O2'	1:A:69:G:OP1	2.13	0.66
1:A:1064:G:H2'	1:A:1065:A:C8	2.31	0.66
1:A:1518:C:OP2	80:A:1961:OHX:N2	2.28	0.66
3:C:135:LEU:HD21	3:C:215:VAL:HG13	1.77	0.66
4:D:218:ILE:O	4:D:221:THR:OG1	2.13	0.66
18:S:28:PHE:HA	18:S:55:THR:HG21	1.76	0.66
25:Z:82:ALA:O	25:Z:86:GLU:HB2	1.94	0.66
35:1:1659:U:O4	80:1:4166:OHX:N1	2.28	0.66
35:1:2369:G:H2'	35:1:2370:G:C8	2.30	0.66
35:1:2656:A:P	68:AP:97:LYS:HB3	2.36	0.66
35:1:3301:U:O4	80:1:3422:OHX:N5	2.28	0.66
64:AL:58:ASP:OD1	64:AL:61:LYS:N	2.28	0.66
70:i:59:GLY:O	70:i:63:ASP:CB	2.42	0.66
35:AR:863:C:OP1	80:AR:3418:OHX:N1	2.28	0.66
50:CR:108:ASP:N	50:CR:152:GLU:OE2	2.27	0.66
52:CT:150:GLN:HA	52:CT:153:LYS:HB3	1.76	0.66
59:DH:58:GLU:HB3	59:DH:63:LYS:HG3	1.77	0.66
68:DQ:100:LYS:H	68:DQ:100:LYS:CD	2.07	0.66
5:s3:7:LYS:HA	5:s3:10:LYS:HB3	1.76	0.66
6:s4:205:PHE:HE2	6:s4:221:ARG:NH1	1.93	0.66
7:s5:139:ASN:C	7:s5:214:LYS:HZ1	2.03	0.66
11:s9:158:PHE:CD2	11:s9:164:PHE:HB3	2.31	0.66
1:A:365:G:O6	80:A:2135:OHX:N1	2.28	0.66
3:C:71:ALA:HB3	15:P:114:ARG:HH21	1.59	0.66
4:D:53:ILE:HG22	4:D:56:ILE:HD12	1.75	0.66
6:F:185:GLY:N	6:F:189:LEU:HD12	2.10	0.66
19:T:27:LYS:HG3	19:T:57:ARG:NH2	2.10	0.66
25:Z:132:ARG:HG3	25:Z:135:ASP:HB3	1.78	0.66
30:AD:9:SER:OG	30:AD:10:ILE:N	2.27	0.66
35:1:1696:A:H2'	35:1:1697:A:C8	2.30	0.66
35:1:2433:U:H1'	48:v:125:SER:HB3	1.78	0.66
49:w:65:ASN:OD1	49:w:67:THR:OG1	2.13	0.66
58:8:46:TYR:HB3	61:AI:75:TYR:O	1.96	0.66
35:AR:3272:C:OP2	40:CH:78:ARG:NH1	2.29	0.66
46:CN:190:LYS:HE2	46:CN:190:LYS:HA	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:sM:83:LYS:HD3	70:sM:84:LYS:H	1.60	0.66
1:sR:1600:A:H4'	1:sR:1601:G:OP1	1.96	0.66
7:s5:42:LEU:HB3	7:s5:46:TRP:O	1.96	0.66
9:s7:14:THR:N	9:s7:17:GLU:OE1	2.27	0.66
1:A:1475:A:H2'	1:A:1476:C:O4'	1.95	0.66
3:C:32:ILE:HG22	3:C:33:LYS:N	2.10	0.66
15:P:48:VAL:HG21	15:P:53:ASP:HB2	1.77	0.66
35:1:1064:A:H4'	35:1:1065:A:O5'	1.95	0.66
33:k:169:THR:O	80:k:403:OHX:N2	2.29	0.66
41:o:25:GLN:HA	41:o:28:ALA:HB3	1.77	0.66
45:s:115:LYS:HG2	45:s:116:TYR:H	1.61	0.66
64:AL:23:ALA:HB3	64:AL:73:LEU:HD11	1.78	0.66
35:AR:1114:U:O4	80:AR:4233:OHX:N3	2.29	0.66
35:AR:1754:G:O6	80:AR:3583:OHX:N2	2.29	0.66
35:AR:1799:A:H2'	35:AR:1800:A:C8	2.31	0.66
44:CL:190:VAL:HG13	44:CL:197:VAL:HG11	1.78	0.66
59:DH:45:LEU:HA	59:DH:71:VAL:HG12	1.78	0.66
79:Rb:156:VAL:HA	79:Rb:169:ILE:HG22	1.78	0.66
79:Rb:199:ILE:HG22	79:Rb:215:GLY:H	1.59	0.66
4:s2:152:HIS:HB2	4:s2:194:GLU:HB2	1.77	0.66
6:s4:105:VAL:HG21	6:s4:245:LYS:H	1.61	0.66
15:c4:25:ASP:OD1	15:c4:26:THR:N	2.28	0.66
19:c8:87:ASN:OD1	19:c8:88:ARG:N	2.28	0.66
9:I:128:ASP:O	9:I:131:PHE:HE1	1.78	0.66
19:T:41:ARG:HH22	20:U:36:ILE:HG23	1.60	0.66
25:Z:112:LYS:O	25:Z:116:LYS:HG3	1.95	0.66
35:1:138:U:H2'	35:1:139:G:H8	1.61	0.66
35:1:1094:U:O2'	35:1:1095:U:O5'	2.14	0.66
35:1:1667:A:H2'	35:1:1668:G:H8	1.61	0.66
35:AR:2535:A:H2'	35:AR:2536:A:H5'	1.77	0.66
48:CP:160:GLU:OE2	48:CP:160:GLU:N	2.24	0.66
53:CU:2:ALA:HB3	53:CU:32:SER:HB3	1.78	0.66
78:g:114:VAL:O	78:g:116:LYS:NZ	2.24	0.66
79:h:220:ILE:HD13	79:h:243:LEU:HD21	1.78	0.66
1:sR:340:U:H2'	1:sR:341:A:C8	2.31	0.66
1:sR:729:G:O2'	1:sR:730:G:O5'	2.14	0.66
5:s3:195:SER:O	5:s3:196:ARG:HD3	1.96	0.66
7:s5:42:LEU:HD22	7:s5:47:SER:HA	1.76	0.66
7:s5:43:PHE:HD2	7:s5:46:TRP:CD1	2.14	0.66
1:A:577:G:C2	70:i:99:LYS:HG2	2.30	0.66
1:A:623:A:OP1	87:A:2201:HOH:O	2.14	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:727:U:O2'	1:A:728:U:H5"	1.96	0.66
5:E:178:ARG:HD2	5:E:179:GLN:H	1.60	0.66
8:H:69:LEU:O	8:H:99:GLY:HA3	1.96	0.66
10:J:68:ALA:HB1	13:M:20:PHE:CE2	2.31	0.66
26:DB:135:ARG:HE	35:AR:1807:G:P	2.19	0.66
30:AD:13:LYS:HG3	30:AD:100:ILE:CG2	2.25	0.66
35:1:792:G:H2'	35:1:793:C:C6	2.30	0.66
35:AR:3163:A:H2'	35:AR:3164:C:H5'	1.77	0.66
35:AR:3353:G:OP2	87:AR:4302:HOH:O	2.14	0.66
36:AS:22:A:H2'	36:AS:23:A:C8	2.30	0.66
64:DM:64:LYS:NZ	64:DM:64:LYS:O	2.29	0.66
79:h:182:ASN:HD21	79:h:185:GLN:HB3	1.60	0.66
1:sR:1041:G:H2'	1:sR:1042:G:C8	2.31	0.66
11:s9:57:ARG:HG2	11:s9:97:LEU:HD21	1.78	0.66
1:A:1140:G:OP2	80:A:2130:OHX:N3	2.28	0.65
1:A:1471:A:H2	1:A:1474:G:N3	1.94	0.65
1:A:1792:G:O5'	73:b:3:LYS:HA	1.96	0.65
16:Q:81:ARG:NH1	16:Q:97:TYR:O	2.27	0.65
35:1:2697:A:H2'	35:1:2698:G:H8	1.61	0.65
52:z:23:TRP:HB3	52:z:51:VAL:HG22	1.77	0.65
35:AR:209:A:OP1	38:CF:161:LYS:NZ	2.28	0.65
53:CU:138:GLN:HA	53:CU:141:LYS:HB2	1.78	0.65
76:e:22:ARG:HG3	76:e:37:ASN:O	1.96	0.65
1:sR:248:U:OP1	80:sR:1978:OHX:N3	2.29	0.65
1:sR:990:C:OP2	80:sR:1976:OHX:N2	2.29	0.65
1:sR:1713:G:H2'	1:sR:1714:A:C8	2.31	0.65
2:s0:10:THR:O	2:s0:13:ASP:N	2.25	0.65
10:s8:194:ARG:NH1	10:s8:197:THR:OG1	2.28	0.65
1:A:924:A:H2'	1:A:925:G:C8	2.30	0.65
1:A:1533:C:H5"	72:a:74:SER:HB2	1.77	0.65
16:Q:56:PHE:CZ	16:Q:60:LEU:HD11	2.31	0.65
28:DC:97:GLU:HA	46:CN:158:ALA:HA	1.76	0.65
33:CE:19:ARG:NH2	35:AR:3045:G:OP1	2.28	0.65
35:AR:2619:G:N7	80:AR:3474:OHX:N4	2.43	0.65
1:sR:499:U:O2	1:sR:500:C:N4	2.29	0.65
1:sR:826:U:H2'	1:sR:827:C:C6	2.32	0.65
1:sR:891:A:H2'	1:sR:892:A:C8	2.31	0.65
1:sR:930:A:H5"	73:d6:70:LYS:HD3	1.76	0.65
1:sR:1390:U:OP2	18:c7:49:LYS:NZ	2.24	0.65
5:s3:72:LEU:HD11	12:c0:65:TYR:HD1	1.61	0.65
6:s4:139:VAL:HG13	6:s4:150:PRO:HG3	1.78	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:c1:35:TYR:CD2	13:c1:49:ILE:HG12	2.32	0.65
1:A:151:G:O6	25:Z:124:ARG:NH2	2.29	0.65
2:B:41:ARG:HG3	2:B:45:VAL:O	1.96	0.65
7:G:48:PHE:O	7:G:51:VAL:HG12	1.96	0.65
35:1:1334:U:O2'	41:o:151:ARG:NH2	2.29	0.65
35:1:1724:U:OP2	52:z:128:LYS:NZ	2.28	0.65
35:1:3316:A:OP1	35:1:3318:G:N2	2.29	0.65
33:k:215:ILE:HD13	33:k:282:ILE:HD11	1.79	0.65
33:k:282:ILE:HD13	33:k:322:ILE:HD12	1.77	0.65
46:t:129:ASN:HB2	46:t:131:LYS:NZ	2.11	0.65
35:AR:2667:A:O2'	35:AR:2691:A:OP1	2.12	0.65
43:CK:20:ILE:HG12	43:CK:25:VAL:HG22	1.78	0.65
67:DP:15:ARG:NH1	1:sR:1126:G:OP1	2.28	0.65
1:sR:140:A:N6	1:sR:281:G:OP1	2.29	0.65
1:sR:861:U:OP1	14:c3:64:ARG:NH1	2.28	0.65
6:s4:180:LEU:N	6:s4:229:GLY:O	2.28	0.65
7:s5:186:ASN:OD1	7:s5:188:LYS:N	2.18	0.65
9:s7:74:GLN:HE22	9:s7:92:PHE:HB2	1.61	0.65
1:A:755:A:H2'	1:A:756:A:H8	1.61	0.65
4:D:179:VAL:O	4:D:198:THR:CB	2.45	0.65
8:H:175:ILE:HD11	8:H:178:LEU:HD22	1.77	0.65
9:I:82:GLU:O	9:I:86:GLN:CB	2.39	0.65
10:J:76:THR:OG1	10:J:105:ASP:HB3	1.95	0.65
11:K:102:GLU:HA	11:K:105:LEU:HD13	1.78	0.65
13:M:33:ARG:NH1	13:M:48:ALA:O	2.29	0.65
20:U:135:ILE:HD12	20:U:136:ALA:H	1.59	0.65
23:X:85:ASP:OD1	23:X:88:LYS:NZ	2.27	0.65
35:1:1695:U:O2'	35:1:1749:A:N1	2.27	0.65
39:m:184:ASP:CG	39:m:187:THR:HG22	2.21	0.65
43:q:129:ARG:H	43:q:157:ASN:ND2	1.94	0.65
48:v:73:ARG:O	48:v:75:VAL:HG22	1.96	0.65
35:AR:1277:C:H2'	35:AR:1278:A:C8	2.32	0.65
35:AR:2169:G:O6	80:AR:3455:OHX:N6	2.29	0.65
38:CF:321:LYS:HA	38:CF:324:LEU:HB3	1.77	0.65
39:CG:119:TYR:CZ	39:CG:135:VAL:HG13	2.31	0.65
60:DI:44:CYS:SG	60:DI:80:ARG:CA	2.84	0.65
1:sR:454:U:H5'	1:sR:455:C:C5	2.31	0.65
1:sR:699:U:O4	80:sR:1930:OHX:N1	2.29	0.65
2:s0:41:ARG:HH12	2:s0:44:GLY:N	1.94	0.65
7:s5:52:GLU:O	7:s5:131:GLN:NE2	2.29	0.65
9:s7:30:SER:O	9:s7:34:LEU:HD12	1.97	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:d0:68:ARG:N	76:d9:40:ARG:HH12	1.94	0.65
1:A:1726:G:O6	80:A:2156:OHX:N6	2.29	0.65
4:D:179:VAL:HG22	4:D:197:TYR:HA	1.78	0.65
16:Q:97:TYR:HD2	16:Q:102:PHE:CE2	2.14	0.65
30:AD:13:LYS:HG3	30:AD:100:ILE:HG22	1.78	0.65
32:AE:23:VAL:O	32:AE:28:ARG:NH1	2.29	0.65
33:CE:266:ARG:NH2	35:AR:2392:C:O2'	2.18	0.65
30:DE:52:ARG:O	30:DE:56:LEU:HD12	1.96	0.65
35:1:3192:U:O4	80:1:4163:OHX:N3	2.29	0.65
35:AR:2406:C:H2'	35:AR:2407:C:C6	2.31	0.65
37:AT:9:A:H2'	37:AT:10:A:C8	2.31	0.65
45:CM:60:ARG:HH12	68:DQ:106:PHE:H	1.44	0.65
51:CS:120:GLU:OE2	51:CS:130:ARG:NH2	2.24	0.65
54:CV:39:ILE:H	54:CV:102:ARG:HH11	1.45	0.65
1:sR:190:C:N4	1:sR:196:G:O6	2.30	0.65
1:sR:1518:C:OP2	80:sR:1997:OHX:N4	2.29	0.65
5:s3:33:GLY:HA3	5:s3:53:THR:HG22	1.79	0.65
8:s6:17:GLU:N	8:s6:17:GLU:OE2	2.29	0.65
1:A:323:A:OP2	10:J:10:LYS:HA	1.96	0.65
1:A:340:U:H2'	1:A:341:A:H8	1.61	0.65
3:C:32:ILE:HG13	3:C:96:LEU:O	1.97	0.65
18:S:29:GLN:O	18:S:33:ARG:HG2	1.96	0.65
18:S:74:GLN:HA	18:S:77:GLU:CG	2.26	0.65
31:CD:82:VAL:HA	31:CD:86:GLN:NE2	2.12	0.65
42:p:82:LEU:HD21	42:p:86:THR:HG23	1.78	0.65
58:8:131:ASP:OD1	87:8:301:HOH:O	2.13	0.65
35:AR:2369:G:OP2	80:AR:3410:OHX:N5	2.29	0.65
35:AR:2696:A:H2'	35:AR:2697:A:C8	2.32	0.65
39:CG:76:ALA:HB3	39:CG:109:THR:HG22	1.77	0.65
46:CN:132:ALA:O	46:CN:134:GLU:N	2.29	0.65
64:DM:24:THR:HG23	64:DM:76:ASN:HB3	1.79	0.65
1:sR:407:A:H2'	1:sR:408:C:C6	2.32	0.65
79:Rb:89:LEU:HB2	79:Rb:103:PHE:HB2	1.78	0.65
79:Rb:161:LYS:HD2	79:Rb:163:ASP:H	1.61	0.65
7:s5:158:GLN:HG3	7:s5:225:ARG:HG2	1.79	0.65
7:s5:162:VAL:HA	75:d8:45:LYS:HB3	1.76	0.65
22:d1:71:ARG:CZ	74:d7:4:VAL:HG11	2.26	0.65
1:A:1429:G:H21	21:V:72:ASN:HD21	1.43	0.65
14:O:70:LYS:O	14:O:74:ILE:HG13	1.97	0.65
16:Q:85:ILE:HG22	16:Q:112:LEU:HD23	1.78	0.65
35:1:563:U:OP1	53:0:71:LYS:NZ	2.27	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2112:U:H4'	35:1:2113:A:H5'	1.77	0.65
35:1:2728:G:N7	54:2:87:LYS:NZ	2.45	0.65
35:1:3068:U:OP2	52:z:62:ARG:NH2	2.22	0.65
38:l:26:PHE:HA	38:l:127:ALA:HA	1.77	0.65
41:o:224:ILE:HG23	53:0:36:ILE:HG12	1.77	0.65
47:u:48:GLY:HA3	47:u:53:VAL:HB	1.77	0.65
70:i:77:THR:HG22	70:i:79:SER:H	1.62	0.65
35:AR:47:C:OP2	35:AR:48:A:O2'	2.15	0.65
35:AR:84:U:O2'	35:AR:101:G:O6	2.11	0.65
40:CH:51:ARG:NH1	47:CO:114:ASP:OD2	2.30	0.65
45:CM:96:PHE:CD2	45:CM:160:VAL:HG12	2.31	0.65
60:DI:76:TYR:HE2	60:DI:88:ARG:CZ	2.09	0.65
71:p0:37:GLN:O	71:p0:41:VAL:HG13	1.96	0.65
1:sR:679:U:H2'	1:sR:680:U:C4'	2.27	0.65
1:sR:796:A:OP2	80:sR:1951:OHX:N1	2.30	0.65
1:sR:886:U:O2'	15:c4:121:VAL:O	2.15	0.65
6:s4:214:LEU:HG	6:s4:244:ILE:HD11	1.78	0.65
8:s6:178:LEU:HD12	8:s6:179:VAL:H	1.61	0.65
10:s8:119:GLN:N	10:s8:119:GLN:OE1	2.29	0.65
76:d9:24:CYS:SG	76:d9:26:SER:HB3	2.36	0.65
1:A:181:A:H2'	1:A:182:A:C8	2.32	0.65
18:S:51:ALA:O	18:S:55:THR:HG23	1.97	0.65
26:DB:27:LYS:HE2	26:DB:29:HIS:CE1	2.32	0.65
35:1:3151:U:H4'	35:1:3294:A:H1'	1.77	0.65
35:1:3268:A:OP2	50:x:181:ARG:NH1	2.30	0.65
35:1:3317:U:O2'	80:1:3524:OHX:N3	2.30	0.65
42:p:91:PHE:HD2	42:p:185:ARG:HH21	1.43	0.65
45:s:37:LEU:HD12	45:s:69:VAL:HG12	1.78	0.65
35:AR:510:G:O6	80:AR:3526:OHX:N5	2.30	0.65
35:AR:3255:U:H2'	35:AR:3256:G:H8	1.62	0.65
48:CP:116:LEU:O	48:CP:117:ASN:ND2	2.30	0.65
1:sR:683:C:H3'	1:sR:684:A:H5"	1.77	0.65
1:sR:1610:G:H5"	7:s5:107:LYS:HB2	1.79	0.65
1:A:260:U:H3'	1:A:261:U:C5'	2.26	0.65
1:A:319:U:OP1	10:J:11:ARG:NH2	2.30	0.65
1:A:1564:U:H2'	1:A:1565:C:C6	2.31	0.65
1:A:1600:A:H4'	1:A:1601:G:OP1	1.97	0.65
2:B:187:ALA:O	2:B:188:LEU:HD12	1.97	0.65
12:L:10:LYS:HE2	12:L:36:ASP:HB3	1.78	0.65
15:P:12:GLN:CG	15:P:77:THR:HG21	2.26	0.65
35:1:2261:G:O6	80:1:3454:OHX:N1	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2571:U:H1'	35:1:2572:C:H2'	1.77	0.65
35:1:2865:U:O4	80:1:3429:OHX:N6	2.29	0.65
35:1:3200:G:O6	80:1:4163:OHX:N5	2.30	0.65
37:4:150:G:N7	80:4:207:OHX:N1	2.44	0.65
56:6:68:GLU:OE1	56:6:68:GLU:N	2.25	0.65
64:AL:40:GLN:HE21	64:AL:42:LYS:HG3	1.61	0.65
35:AR:1382:G:O6	80:AR:3438:OHX:N6	2.30	0.65
42:CJ:24:ASN:HA	42:CJ:27:THR:HG22	1.77	0.65
79:h:218:GLY:O	79:h:236:ALA:N	2.19	0.65
1:sR:150:U:H2'	1:sR:151:G:O4'	1.96	0.65
1:sR:1360:A:C3'	1:sR:1361:U:H4'	2.26	0.65
3:s1:73:LEU:HD22	3:s1:84:ILE:HD13	1.79	0.65
1:A:1591:C:H2'	1:A:1592:A:C8	2.31	0.65
10:J:159:GLN:HB2	10:J:165:LEU:HD22	1.79	0.65
13:M:92:HIS:HB2	13:M:103:ARG:HD2	1.78	0.65
31:CD:191:LEU:HD13	35:AR:1794:G:H4'	1.78	0.65
35:1:2396:G:N7	87:1:4209:HOH:O	2.28	0.65
36:3:52:G:H21	45:s:9:MET:HE1	1.62	0.65
33:k:112:ASP:O	33:k:116:ARG:HG3	1.96	0.65
62:AJ:58:ILE:HG23	62:AJ:90:MET:HE3	1.79	0.65
35:AR:45:A:OP1	80:DQ:203:OHX:N4	2.29	0.65
60:DI:44:CYS:CB	60:DI:81:CYS:SG	2.85	0.65
1:sR:565:C:O2	80:sR:2010:OHX:N4	2.30	0.65
1:sR:741:C:OP2	80:sR:2188:OHX:N3	2.30	0.65
79:Rb:199:ILE:HA	79:Rb:215:GLY:CA	2.16	0.65
17:c6:55:VAL:HG21	17:c6:105:LEU:HD12	1.79	0.65
24:d3:130:VAL:HG21	24:d3:143:PRO:HD2	1.79	0.65
74:d7:36:LYS:HZ3	74:d7:40:CYS:C	2.04	0.65
1:A:860:U:O4'	9:I:114:ARG:HD2	1.97	0.64
1:A:952:A:O2'	14:O:114:ARG:HD2	1.96	0.64
1:A:1471:A:N7	1:A:1540:G:H1'	2.12	0.64
29:DD:17:HIS:HA	29:DD:20:GLY:HA2	1.78	0.64
35:1:2180:G:H2'	35:1:2181:C:C6	2.32	0.64
41:o:38:LYS:O	41:o:38:LYS:HD3	1.97	0.64
35:AR:1892:G:N7	80:AR:3614:OHX:N4	2.46	0.64
40:CH:85:ILE:HG23	59:DH:107:ILE:HG22	1.79	0.64
45:CM:49:LYS:HB3	45:CM:64:LYS:H	1.61	0.64
58:CZ:73:MET:HE1	58:CZ:141:TYR:CE1	2.31	0.64
70:sM:53:ARG:HG2	70:sM:53:ARG:O	1.95	0.64
79:h:33:LEU:HD12	79:h:45:TRP:CD1	2.33	0.64
79:h:121:MET:SD	79:h:183:LEU:HD23	2.37	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:h:307:ASP:OD1	79:h:309:VAL:HG22	1.97	0.64
1:sR:1241:G:O4'	16:c5:79:HIS:ND1	2.30	0.64
9:s7:77:LEU:CD2	9:s7:81:LEU:HD11	2.25	0.64
73:d6:10:ARG:HB2	73:d6:34:LYS:HA	1.79	0.64
75:d8:12:VAL:HB	75:d8:28:VAL:CG2	2.26	0.64
1:A:159:U:O2'	8:H:87:ARG:NH1	2.30	0.64
3:C:135:LEU:HA	3:C:217:LEU:CD1	2.27	0.64
31:CD:243:THR:HG23	35:AR:2242:A:H5'	1.79	0.64
52:z:44:LEU:O	52:z:49:THR:OG1	2.15	0.64
53:0:2:ALA:HB3	53:0:32:SER:HB2	1.78	0.64
35:AR:3295:A:H2'	35:AR:3296:A:C8	2.33	0.64
43:CK:91:ARG:HD2	43:CK:143:GLU:HG3	1.78	0.64
71:p0:186:THR:OG1	71:p0:187:VAL:N	2.28	0.64
79:h:13:LEU:HD21	79:h:54:PHE:HB3	1.78	0.64
1:sR:521:A:O2'	25:d4:34:ASN:ND2	2.26	0.64
1:sR:950:C:H2'	1:sR:951:A:C8	2.31	0.64
1:sR:1776:A:H2'	1:sR:1777:G:C8	2.33	0.64
7:s5:96:SER:O	7:s5:180:ARG:NH2	2.30	0.64
9:s7:73:VAL:HG23	9:s7:76:LYS:HE3	1.78	0.64
13:c1:130:PRO:HB3	13:c1:136:ARG:HD2	1.79	0.64
74:d7:56:CYS:SG	74:d7:57:GLU:N	2.70	0.64
1:A:1282:U:OP1	80:A:1959:OHX:N2	2.29	0.64
37:4:2:A:OP2	80:4:201:OHX:N1	2.29	0.64
38:l:316:ASN:HB3	38:l:319:LYS:HG2	1.79	0.64
39:m:105:ILE:O	39:m:109:THR:HG23	1.97	0.64
45:s:9:MET:O	45:s:9:MET:HG3	1.97	0.64
35:AR:408:A:OP1	80:AR:3605:OHX:N6	2.30	0.64
35:AR:629:U:H2'	35:AR:630:A:H8	1.61	0.64
35:AR:1235:U:H4'	35:AR:1236:G:H5'	1.79	0.64
35:AR:3016:A:H2'	35:AR:3017:A:H8	1.61	0.64
38:CF:104:LYS:HD3	38:CF:106:TRP:CZ2	2.32	0.64
1:sR:333:A:H5'	10:s8:48:THR:CG2	2.28	0.64
1:sR:791:A:H2'	1:sR:792:U:O4'	1.97	0.64
1:sR:1650:U:H2'	1:sR:1651:A:C8	2.31	0.64
1:sR:1713:G:H2'	1:sR:1714:A:H8	1.61	0.64
5:s3:115:ILE:H	5:s3:115:ILE:HD12	1.60	0.64
14:c3:72:MET:HE1	14:c3:82:PRO:HD3	1.78	0.64
1:A:804:A:N3	23:X:105:THR:HG22	2.12	0.64
1:A:1290:U:H2'	1:A:1291:G:C8	2.33	0.64
2:B:122:ILE:HD12	2:B:144:ILE:HB	1.79	0.64
5:E:177:MET:HE2	5:E:182:LEU:HD11	1.79	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:M:29:LYS:NZ	13:M:33:ARG:H	1.95	0.64
26:DB:38:PHE:O	26:DB:40:HIS:ND1	2.27	0.64
26:DB:61:LYS:HE2	35:AR:2572:C:H4'	1.80	0.64
35:1:2686:A:OP2	80:1:3425:OHX:N4	2.30	0.64
39:m:156:GLY:HA2	39:m:181:PRO:HD3	1.78	0.64
39:m:208:MET:HE2	39:m:233:ALA:N	2.12	0.64
45:s:16:LYS:HB3	45:s:72:ARG:HG2	1.79	0.64
35:AR:1473:G:OP2	52:CT:8:LYS:NZ	2.30	0.64
35:AR:2308:C:O2	80:AR:4232:OHX:N3	2.30	0.64
72:a:61:SER:HG	72:a:63:SER:HG	1.46	0.64
73:b:84:VAL:HG13	73:b:85:ARG:N	2.12	0.64
1:sR:187:G:H4'	1:sR:188:A:OP1	1.97	0.64
1:sR:384:G:O6	80:sR:2002:OHX:N3	2.30	0.64
4:s2:61:LEU:HD13	4:s2:62:PRO:HD2	1.77	0.64
9:s7:47:ARG:O	9:s7:58:LEU:HB2	1.97	0.64
16:c5:98:ASN:OD1	16:c5:101:ALA:N	2.24	0.64
72:d5:40:VAL:HA	72:d5:72:GLY:HA3	1.80	0.64
2:B:89:PHE:O	2:B:93:THR:HG23	1.97	0.64
4:D:169:LEU:HD11	4:D:217:ALA:HB1	1.78	0.64
11:K:93:LEU:O	11:K:96:VAL:HG22	1.98	0.64
21:V:109:GLU:O	21:V:112:VAL:HG22	1.97	0.64
30:DE:100:ILE:HG13	30:DE:101:LEU:N	2.13	0.64
35:1:402:A:OP1	65:AM:36:ARG:NH2	2.30	0.64
35:1:1081:U:OP1	80:1:4143:OHX:N5	2.31	0.64
35:1:1650:G:N7	80:1:3614:OHX:N6	2.45	0.64
44:r:63:GLU:OE1	44:r:63:GLU:N	2.25	0.64
62:AJ:67:LYS:HE2	62:AJ:67:LYS:H	1.63	0.64
35:AR:567:G:H2'	35:AR:568:G:C8	2.32	0.64
35:AR:1740:U:H1'	35:AR:1741:A:H2	1.61	0.64
35:AR:3224:G:O6	80:AR:3499:OHX:N2	2.31	0.64
41:CI:52:GLN:NE2	41:CI:56:GLU:OE2	2.29	0.64
60:DI:104:VAL:HG23	60:DI:107:GLU:HB2	1.80	0.64
77:f:49:LEU:HD22	77:f:50:VAL:N	2.12	0.64
1:sR:711:U:H3'	1:sR:712:G:H8	1.61	0.64
1:sR:747:C:H4'	23:d2:80:ASN:HD21	1.62	0.64
3:s1:119:THR:HG21	3:s1:156:ALA:H	1.62	0.64
6:s4:192:ILE:HD11	6:s4:242:LYS:O	1.97	0.64
14:c3:54:LEU:HB3	14:c3:60:VAL:HG11	1.79	0.64
1:A:366:A:OP1	1:A:758:U:O2'	2.13	0.64
1:A:987:G:C2	31:j:249:SER:HB2	2.33	0.64
1:A:1150:G:H4'	1:A:1151:A:OP2	1.97	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1479:A:H2'	1:A:1480:G:H8	1.62	0.64
1:A:1776:A:H2'	1:A:1777:G:C8	2.33	0.64
9:I:67:LEU:HG	9:I:71:HIS:HE1	1.62	0.64
17:R:83:GLN:HG2	17:R:87:LYS:HZ3	1.63	0.64
33:CE:232:ARG:HG2	33:CE:233:TRP:CD1	2.32	0.64
35:1:213:A:OP1	27:9:2:ALA:N	2.30	0.64
35:1:1696:A:OP2	80:1:3627:OHX:N3	2.30	0.64
35:1:1953:G:N2	35:1:2094:C:O2	2.16	0.64
35:1:2754:G:OP2	80:1:3509:OHX:N6	2.31	0.64
35:1:3057:U:H5'	35:1:3086:A:H61	1.62	0.64
42:p:225:LYS:O	42:p:229:VAL:HG13	1.96	0.64
48:v:33:LYS:O	48:v:65:ARG:NH1	2.29	0.64
52:z:173:ARG:HA	52:z:176:ARG:HB2	1.79	0.64
64:AL:30:LYS:NZ	64:AL:40:GLN:OE1	2.30	0.64
35:AR:1675:G:OP1	55:CW:72:SER:OG	2.16	0.64
35:AR:1840:U:OP2	80:AR:3542:OHX:N1	2.30	0.64
35:AR:2960:C:H2'	35:AR:2961:G:C8	2.32	0.64
79:h:216:LYS:HA	79:h:239:GLU:HG3	1.79	0.64
1:sR:973:A:H2'	1:sR:974:A:C8	2.33	0.64
79:Rb:222:LEU:HD21	79:Rb:232:TYR:CE1	2.33	0.64
9:s7:45:SER:HB3	9:s7:47:ARG:HH12	1.60	0.64
10:s8:89:GLU:O	10:s8:93:THR:HG22	1.97	0.64
11:s9:59:LEU:HD22	11:s9:69:ARG:HA	1.80	0.64
16:c5:43:ARG:HH11	16:c5:43:ARG:HG2	1.61	0.64
24:d3:37:ALA:O	24:d3:41:SER:HB3	1.98	0.64
1:A:30:G:H2'	1:A:31:C:C6	2.33	0.64
2:B:83:GLN:HA	2:B:86:VAL:HG12	1.78	0.64
6:F:121:TYR:HA	6:F:164:LEU:HD13	1.79	0.64
33:CE:34:LYS:HD2	33:CE:35:ASP:N	2.12	0.64
35:1:65:A:H3'	35:1:111:C:H41	1.62	0.64
35:1:1277:C:OP1	80:1:4169:OHX:N2	2.31	0.64
35:1:1899:G:N7	80:1:4134:OHX:N1	2.46	0.64
35:1:2588:U:OP1	42:p:48:ARG:NH2	2.26	0.64
35:1:2678:A:H8	70:i:47:ALA:HB2	1.62	0.64
35:1:2835:U:H2'	35:1:2836:C:O2	1.98	0.64
35:1:3375:A:O2'	35:1:3378:C:OP2	2.13	0.64
44:r:47:PRO:HB2	44:r:178:ARG:HH21	1.62	0.64
43:CK:106:LYS:O	43:CK:109:ALA:HB2	1.98	0.64
32:DF:23:VAL:O	32:DF:28:ARG:NH1	2.30	0.64
72:a:46:LYS:NZ	72:a:70:LYS:HA	2.13	0.64
75:d:27:GLN:OE1	75:d:64:ARG:NH2	2.29	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:179:GLN:OE1	5:s3:180:GLY:N	2.29	0.64
75:d8:14:LYS:O	75:d8:28:VAL:HG23	1.96	0.64
77:e0:49:LEU:H	77:e0:49:LEU:HD12	1.62	0.64
1:A:73:U:O2'	1:A:74:U:O5'	2.15	0.64
1:A:1067:C:H2'	1:A:1068:C:C6	2.32	0.64
1:A:1160:A:H2'	1:A:1161:C:C6	2.33	0.64
6:F:104:ASP:OD1	6:F:110:ALA:HB2	1.98	0.64
9:I:129:LEU:HD11	9:I:172:VAL:HG21	1.79	0.64
16:Q:106:GLU:O	16:Q:111:MET:HE1	1.98	0.64
19:T:126:ARG:CZ	19:T:131:LEU:HD23	2.28	0.64
24:Y:74:VAL:HG11	24:Y:104:LEU:HD11	1.78	0.64
26:AA:95:VAL:HG11	26:AA:113:VAL:HG11	1.80	0.64
64:AL:14:LEU:O	64:AL:20:VAL:HG21	1.98	0.64
77:f:41:THR:HA	77:f:45:VAL:HG13	1.79	0.64
1:sR:58:U:O4	80:sR:1946:OHX:N6	2.30	0.64
1:sR:542:A:H61	77:e0:28:LYS:HZ2	1.45	0.64
1:sR:591:A:H2'	1:sR:592:A:H8	1.61	0.64
1:sR:822:U:H2'	1:sR:823:G:H5"	1.80	0.64
1:sR:1050:G:O6	80:sR:2184:OHX:N4	2.31	0.64
79:Rb:211:ILE:CG1	79:Rb:223:TRP:HB2	2.27	0.64
5:s3:37:VAL:HG23	5:s3:50:ILE:HG13	1.80	0.64
5:s3:224:ASP:OD1	5:s3:225:TYR:N	2.31	0.64
20:c9:117:SER:CB	20:c9:123:ARG:HB3	2.28	0.64
1:A:16:G:H2'	1:A:17:C:C6	2.32	0.64
6:F:26:CYS:HB2	11:K:2:PRO:O	1.98	0.64
7:G:116:HIS:O	7:G:120:ILE:HD12	1.98	0.64
19:T:26:ILE:HG23	19:T:31:ALA:HB2	1.78	0.64
28:AB:35:ALA:HB2	35:1:39:A:H5"	1.80	0.64
28:DC:27:LYS:NZ	35:AR:801:A:OP1	2.23	0.64
35:1:1175:C:H1'	49:w:87:MET:HB3	1.80	0.64
35:1:1246:G:H1'	35:1:1264:G:H2'	1.79	0.64
35:1:2678:A:C8	70:i:47:ALA:HB2	2.33	0.64
31:j:178:PRO:HG2	69:AQ:26:VAL:HG23	1.79	0.64
38:l:351:PRO:HB3	41:o:70:LYS:HB3	1.78	0.64
55:5:75:TYR:O	55:5:79:LEU:HD12	1.97	0.64
35:AR:837:A:OP2	69:DR:4:ARG:NH1	2.30	0.64
35:AR:2986:U:H2'	35:AR:2987:A:H8	1.62	0.64
36:AS:81:U:O4	80:AS:204:OHX:N6	2.31	0.64
39:CG:34:LYS:O	39:CG:38:THR:HG23	1.98	0.64
64:DM:62:ALA:O	64:DM:66:ILE:HD12	1.98	0.64
79:h:147:HIS:CE1	79:h:171:SER:HB2	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1101:G:O2'	23:d2:4:SER:OG	2.13	0.64
1:sR:1498:G:H5"	20:c9:72:GLY:HA3	1.79	0.64
2:s0:74:VAL:HG23	2:s0:118:PRO:HB3	1.80	0.64
6:s4:251:GLU:O	6:s4:255:ARG:HG2	1.98	0.64
12:c0:6:GLU:HA	12:c0:9:ASN:HD21	1.63	0.64
1:A:251:A:H2	6:F:131:LEU:HD13	1.62	0.64
1:A:482:U:H2'	1:A:483:A:C8	2.32	0.64
4:D:49:LYS:HD2	4:D:243:TYR:CE2	2.32	0.64
9:I:172:VAL:O	9:I:176:LEU:HG	1.98	0.64
31:CD:25:GLY:HA2	35:AR:2175:U:O2	1.98	0.64
35:1:1029:G:H2'	35:1:1030:A:C8	2.32	0.64
35:1:2383:C:OP2	49:w:85:ARG:NH2	2.30	0.64
46:t:185:LYS:O	46:t:189:GLU:HG3	1.98	0.64
55:5:51:GLY:O	55:5:52:ASN:ND2	2.31	0.64
56:6:28:ASN:ND2	56:6:112:SER:OG	2.31	0.64
69:AQ:47:VAL:HA	69:AQ:56:THR:O	1.97	0.64
35:AR:2673:A:OP1	45:CM:95:ASN:ND2	2.31	0.64
1:sR:762:A:OP1	11:s9:79:ARG:NH1	2.24	0.64
1:sR:1006:C:OP1	80:sR:1910:OHX:N4	2.31	0.64
79:Rb:60:SER:O	17:c6:94:GLN:NE2	2.31	0.64
6:s4:18:TRP:HE3	6:s4:20:LEU:HD11	1.63	0.64
7:s5:37:GLN:HG2	7:s5:42:LEU:H	1.63	0.64
7:s5:195:ALA:O	7:s5:199:ILE:HD12	1.98	0.64
9:s7:156:SER:HB3	9:s7:186:PRO:HG2	1.80	0.64
1:A:1166:A:OP1	7:G:100:ASN:ND2	2.28	0.63
4:D:127:ALA:O	4:D:131:ILE:HG12	1.98	0.63
5:E:48:VAL:HB	5:E:86:LEU:HG	1.80	0.63
7:G:139:ASN:ND2	7:G:201:ALA:O	2.26	0.63
9:I:155:ASP:OD1	9:I:156:SER:N	2.31	0.63
11:K:163:PRO:HB3	11:K:168:ARG:O	1.98	0.63
12:L:25:LYS:HD3	12:L:59:PHE:HZ	1.64	0.63
15:P:20:TYR:HB3	15:P:27:PHE:HB2	1.79	0.63
18:S:6:THR:HG23	18:S:9:VAL:HG13	1.80	0.63
35:1:872:U:H2'	35:1:873:C:C6	2.33	0.63
35:1:1317:A:O2'	35:1:1318:A:H3'	1.98	0.63
35:1:1524:A:OP1	58:8:92:LYS:NZ	2.27	0.63
35:1:1747:G:H21	64:AL:2:ALA:HA	1.63	0.63
45:s:15:GLU:HB2	45:s:132:ASN:OD1	1.98	0.63
55:5:12:ALA:HA	55:5:67:SER:O	1.98	0.63
35:AR:718:G:C2	35:AR:721:G:H1'	2.33	0.63
1:sR:891:A:H2'	1:sR:892:A:H8	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1160:A:H2'	1:sR:1161:C:C6	2.33	0.63
79:Rb:9:LEU:HG	79:Rb:10:ARG:N	2.12	0.63
7:s5:211:ILE:O	7:s5:215:ASP:HB2	1.98	0.63
10:s8:152:ILE:HD13	10:s8:156:VAL:HB	1.79	0.63
78:e1:118:ARG:HD3	78:e1:132:LEU:O	1.98	0.63
1:A:1379:C:H1'	17:R:19:VAL:HG21	1.80	0.63
1:A:1780:G:OP2	80:A:2125:OHX:N4	2.31	0.63
16:Q:57:MET:HA	16:Q:60:LEU:HD13	1.81	0.63
16:Q:128:HIS:HB2	70:i:71:ASN:HD22	1.63	0.63
31:CD:111:THR:HB	31:CD:136:ILE:HD13	1.80	0.63
35:1:132:C:H2'	35:1:133:U:H5"	1.80	0.63
35:1:138:U:H2'	35:1:139:G:C8	2.33	0.63
35:1:1381:A:OP1	38:l:197:ARG:NH1	2.28	0.63
35:1:3103:A:OP2	80:1:3631:OHX:N1	2.31	0.63
33:k:343:TYR:CE2	33:k:345:ASN:HB2	2.33	0.63
69:AQ:75:ALA:O	69:AQ:79:VAL:HG23	1.98	0.63
35:AR:289:A:H2'	35:AR:290:G:H8	1.61	0.63
37:AT:40:A:H2'	37:AT:41:A:C8	2.33	0.63
52:CT:173:ARG:HA	52:CT:176:ARG:HB3	1.78	0.63
60:DI:44:CYS:HB2	60:DI:81:CYS:SG	2.38	0.63
68:DQ:78:LYS:O	68:DQ:78:LYS:CD	2.46	0.63
1:sR:477:A:OP1	77:e0:31:LYS:HG2	1.98	0.63
79:Rb:87:LYS:HD3	79:Rb:107:LYS:C	2.23	0.63
79:Rb:122:ILE:O	79:Rb:134:TRP:HB2	1.98	0.63
4:s2:111:VAL:O	4:s2:137:ILE:N	2.29	0.63
5:s3:74:GLN:NE2	5:s3:75:LYS:HG2	2.12	0.63
7:s5:99:MET:O	7:s5:103:ASN:HB2	1.98	0.63
21:d0:19:ILE:HG22	21:d0:96:PRO:HA	1.80	0.63
23:d2:81:VAL:O	23:d2:122:SER:OG	2.16	0.63
1:A:140:A:N6	1:A:281:G:OP1	2.31	0.63
1:A:197:A:H2'	1:A:198:A:H8	1.64	0.63
1:A:895:G:H1	1:A:917:U:H3	1.45	0.63
1:A:1041:G:H2'	1:A:1042:G:C8	2.33	0.63
1:A:1642:G:O6	80:A:2114:OHX:N1	2.32	0.63
3:C:177:GLN:CD	3:C:177:GLN:H	2.06	0.63
5:E:162:GLN:OE1	5:E:165:ASN:HB2	1.97	0.63
14:O:27:LYS:H	14:O:27:LYS:CD	2.11	0.63
35:1:2384:A:OP1	80:1:4109:OHX:N6	2.32	0.63
35:1:3027:A:H2'	35:1:3028:G:O4'	1.99	0.63
35:1:3348:G:H1	35:1:3357:U:H3	1.45	0.63
42:p:24:ASN:N	42:p:27:THR:HG22	2.12	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:u:120:VAL:HG12	49:w:197:LEU:HD13	1.79	0.63
35:AR:531:G:H2'	35:AR:532:A:C8	2.34	0.63
35:AR:1555:U:H5	35:AR:1559:A:H61	1.46	0.63
32:DF:25:PHE:HB3	32:DF:65:LYS:HG2	1.80	0.63
1:sR:1720:G:O6	80:sR:1950:OHX:N3	2.31	0.63
5:s3:72:LEU:HB2	12:c0:20:VAL:HG11	1.79	0.63
7:s5:161:ASP:HB3	75:d8:54:LEU:HD11	1.80	0.63
8:s6:57:ASP:HA	8:s6:106:LEU:HA	1.80	0.63
8:s6:137:ARG:HD2	8:s6:177:ARG:HD2	1.80	0.63
15:c4:32:ASP:OD1	15:c4:34:SER:N	2.29	0.63
16:c5:44:ARG:O	16:c5:48:GLY:N	2.32	0.63
1:A:702:G:O2'	1:A:703:G:O4'	2.15	0.63
1:A:793:A:H5'	1:A:794:U:C6	2.34	0.63
1:A:926:A:OP1	1:A:1016:C:O2'	2.16	0.63
1:A:1175:U:H2'	1:A:1176:G:C8	2.34	0.63
12:L:25:LYS:HD3	12:L:59:PHE:CZ	2.34	0.63
20:U:15:ILE:HG23	20:U:59:ALA:HB3	1.80	0.63
35:1:1278:A:O2'	35:1:1279:C:O5'	2.16	0.63
35:1:2747:A:H2'	35:1:2748:A:C8	2.33	0.63
65:AM:21:ARG:CZ	65:AM:24:PRO:HG3	2.28	0.63
35:AR:1064:A:H4'	35:AR:1065:A:O5'	1.98	0.63
35:AR:1820:U:H4'	35:AR:1821:U:O5'	1.98	0.63
35:AR:2791:G:OP2	80:CS:202:OHX:N1	2.32	0.63
60:DI:104:VAL:HG23	60:DI:107:GLU:HG3	1.77	0.63
1:sR:119:A:H1'	1:sR:397:A:C5	2.33	0.63
1:A:836:U:H2'	1:A:837:G:H8	1.63	0.63
1:A:1110:G:N7	80:A:1927:OHX:N3	2.46	0.63
9:I:50:ASP:HB3	9:I:56:LYS:HG2	1.80	0.63
9:I:114:ARG:O	9:I:117:THR:HG22	1.98	0.63
16:Q:111:MET:HG2	19:T:119:ILE:CG2	2.28	0.63
18:S:47:ARG:NH1	18:S:48:ASN:ND2	2.47	0.63
18:S:74:GLN:HA	18:S:77:GLU:HG3	1.80	0.63
28:DC:35:ALA:HB2	35:AR:39:A:H5"	1.80	0.63
35:1:29:C:O2'	48:v:172:ARG:NH1	2.32	0.63
31:j:20:THR:HA	31:j:23:ARG:HD2	1.80	0.63
43:q:105:GLU:HA	43:q:109:ALA:HB3	1.81	0.63
55:5:54:VAL:HG12	55:5:67:SER:CB	2.28	0.63
68:AP:10:THR:HG22	68:AP:23:HIS:CE1	2.33	0.63
35:AR:1295:G:O2'	53:CU:115:ARG:NH1	2.28	0.63
35:AR:2268:U:H3'	35:AR:2269:U:H5"	1.80	0.63
35:AR:2674:A:H5"	45:CM:105:GLY:HA3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CG:41:LYS:HB2	54:CV:68:THR:O	1.99	0.63
52:CT:101:VAL:HG12	52:CT:104:ARG:HH21	1.64	0.63
55:CW:99:LYS:HG2	55:CW:102:GLU:HG3	1.78	0.63
63:DL:62:GLY:O	80:DL:102:OHX:N6	2.32	0.63
72:a:50:ILE:HD12	72:a:51:LEU:N	2.14	0.63
1:sR:108:A:H2'	1:sR:109:G:C8	2.33	0.63
1:sR:1213:G:O6	80:sR:1929:OHX:N3	2.31	0.63
79:Rb:267:PRO:HD2	79:Rb:269:TYR:HE1	1.63	0.63
3:s1:183:GLN:O	3:s1:187:LYS:HG3	1.99	0.63
5:s3:58:VAL:O	5:s3:66:ILE:HG23	1.98	0.63
18:c7:50:ILE:O	18:c7:54:THR:HG23	1.97	0.63
1:A:276:C:O2'	1:A:277:U:H5"	1.97	0.63
3:C:81:PHE:O	3:C:106:THR:HG23	1.99	0.63
4:D:121:VAL:HG11	70:i:117:LEU:HA	1.80	0.63
6:F:128:LYS:HB2	6:F:140:VAL:HG23	1.79	0.63
25:Z:86:GLU:OE2	25:Z:90:ARG:NH1	2.32	0.63
35:1:1466:G:O6	80:1:4124:OHX:N5	2.31	0.63
35:1:1494:U:P	65:AM:42:ARG:HH22	2.21	0.63
35:1:2575:G:H2'	35:1:2576:G:H8	1.64	0.63
45:s:16:LYS:HG3	45:s:130:VAL:CG1	2.28	0.63
47:u:54:PRO:O	47:u:56:GLN:HG2	1.99	0.63
39:CG:58:LYS:HD3	39:CG:58:LYS:H	1.64	0.63
1:sR:794:U:H4'	1:sR:795:U:OP2	1.99	0.63
1:sR:800:U:OP1	80:sR:2188:OHX:N6	2.31	0.63
1:sR:1564:U:H2'	1:sR:1565:C:C6	2.34	0.63
1:sR:1799:U:O2'	3:s1:152:ARG:NH2	2.32	0.63
2:s0:71:GLU:O	2:s0:96:THR:HG22	1.98	0.63
5:s3:164:VAL:O	5:s3:168:ILE:HG13	1.99	0.63
8:s6:173:PRO:O	8:s6:174:LYS:HB3	1.97	0.63
19:c8:28:ILE:HG22	19:c8:32:LEU:CD1	2.29	0.63
1:A:1294:G:H4'	2:B:109:ASN:H	1.64	0.63
1:A:1396:U:O4	80:A:1947:OHX:N4	2.31	0.63
2:B:74:VAL:HG23	2:B:118:PRO:HB3	1.81	0.63
7:G:26:ALA:HB3	17:R:28:LEU:HD13	1.80	0.63
15:P:42:VAL:HG22	15:P:46:MET:HG3	1.80	0.63
28:AB:130:VAL:HG11	28:AB:145:VAL:HG11	1.80	0.63
33:CE:43:LEU:HB2	33:CE:208:VAL:HG11	1.80	0.63
35:1:2236:G:OP1	80:1:3602:OHX:N6	2.32	0.63
35:1:2771:U:O2'	35:1:2772:C:H4'	1.98	0.63
38:l:36:HIS:O	38:l:40:THR:HG23	1.97	0.63
39:m:38:THR:HG22	54:2:30:TYR:HB3	1.80	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:m:65:ILE:HG21	39:m:72:ASP:HB3	1.81	0.63
35:AR:2705:A:OP2	80:AR:3401:OHX:N4	2.31	0.63
35:AR:2904:U:H2'	35:AR:2905:U:C6	2.34	0.63
43:CK:90:MET:HG2	43:CK:181:VAL:HA	1.80	0.63
46:CN:89:TYR:HB2	61:DJ:111:PHE:HE1	1.63	0.63
34:DG:22:SER:HA	34:DG:28:VAL:HB	1.81	0.63
60:DI:82:ALA:HA	60:DI:85:VAL:CG2	2.25	0.63
68:DQ:45:ARG:HG2	68:DQ:45:ARG:HH11	1.63	0.63
70:sM:58:GLU:O	70:sM:62:ARG:HG2	1.97	0.63
73:b:54:SER:HB3	73:b:61:GLU:OE1	1.97	0.63
1:sR:488:G:O2'	1:sR:500:C:N4	2.32	0.63
1:sR:800:U:H2'	1:sR:801:G:H8	1.64	0.63
14:c3:60:VAL:HG23	14:c3:66:ILE:HD12	1.81	0.63
16:c5:18:ARG:O	19:c8:95:GLY:HA3	1.99	0.63
1:A:179:A:H2'	1:A:180:A:O4'	1.99	0.63
1:A:189:C:H41	10:J:138:ASN:HD21	1.47	0.63
1:A:699:U:H2'	1:A:700:C:C6	2.34	0.63
1:A:935:U:C4	73:b:15:ARG:NH2	2.67	0.63
1:A:1171:A:H2'	1:A:1172:G:C8	2.34	0.63
4:D:175:GLY:HA3	11:K:53:ARG:HH12	1.64	0.63
11:K:109:LEU:HB2	11:K:146:PHE:HB3	1.81	0.63
16:Q:87:PRO:HA	16:Q:90:ILE:HG13	1.81	0.63
23:X:30:SER:OG	23:X:58:SER:O	2.17	0.63
26:DB:59:ALA:HB3	26:DB:61:LYS:HZ1	1.63	0.63
26:DB:59:ALA:HB3	26:DB:61:LYS:NZ	2.14	0.63
35:1:2357:A:H2'	35:1:2358:A:H8	1.63	0.63
35:1:2369:G:OP2	80:1:4123:OHX:N5	2.31	0.63
35:1:2859:U:O2'	80:1:3403:OHX:N1	2.31	0.63
36:3:86:U:O2'	80:3:221:OHX:N4	2.31	0.63
39:m:183:TRP:CH2	39:m:188:GLU:HA	2.34	0.63
40:n:31:ARG:NH1	59:AG:107:ILE:O	2.32	0.63
35:AR:394:G:N7	80:AR:3453:OHX:N3	2.47	0.63
35:AR:1016:C:H2'	35:AR:1017:C:H5'	1.80	0.63
35:AR:1687:U:OP2	55:CW:42:LYS:NZ	2.32	0.63
35:AR:1863:G:N1	35:AR:1866:C:OP2	2.22	0.63
42:CJ:29:SER:O	42:CJ:31:PRO:HD3	1.98	0.63
46:CN:5:LYS:O	46:CN:7:LEU:HG	1.99	0.63
60:DI:44:CYS:SG	60:DI:80:ARG:C	2.81	0.63
64:DM:38:PHE:HE2	64:DM:57:ASN:HB3	1.63	0.63
14:c3:55:ARG:NH1	14:c3:56:ASP:OD1	2.31	0.63
17:c6:89:LEU:HD21	17:c6:105:LEU:CD1	2.29	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:335:U:O2'	13:M:130:PRO:O	2.17	0.63
1:A:340:U:H2'	1:A:341:A:C8	2.32	0.63
1:A:512:A:OP2	11:K:172:VAL:HG13	1.99	0.63
1:A:1234:A:H1'	78:g:145:HIS:HB2	1.81	0.63
1:A:1450:U:H2'	1:A:1451:C:H6	1.64	0.63
1:A:1592:A:H2'	1:A:1593:A:C8	2.34	0.63
3:C:38:PHE:HE1	3:C:189:ILE:HD11	1.63	0.63
9:I:130:VAL:HB	9:I:133:THR:HG21	1.81	0.63
10:J:120:THR:OG1	80:J:301:OHX:N3	2.32	0.63
11:K:39:LYS:O	11:K:43:TYR:HD1	1.81	0.63
17:R:136:SER:O	17:R:137:ARG:NH1	2.32	0.63
29:AC:44:LYS:HG3	29:AC:45:HIS:N	2.13	0.63
35:1:361:A:O3'	63:AK:45:ARG:NH2	2.31	0.63
35:1:3163:A:N1	35:1:3164:C:N4	2.47	0.63
31:j:50:HIS:HB2	69:AQ:51:ALA:HB1	1.81	0.63
35:AR:1336:U:H2'	35:AR:1337:A:H8	1.64	0.63
35:AR:1546:A:N7	48:CP:71:ARG:NH1	2.47	0.63
35:AR:2687:G:N7	80:AR:3420:OHX:N1	2.47	0.63
39:CG:290:ILE:HG13	39:CG:291:ALA:H	1.64	0.63
52:CT:167:ARG:NH2	1:sR:814:A:H5'	2.14	0.63
79:h:286:GLU:OE2	80:h:401:OHX:N5	2.31	0.63
79:Rb:37:SER:OG	79:Rb:39:ASP:OD1	2.17	0.63
9:s7:31:SER:HB3	9:s7:35:LYS:H	1.64	0.63
16:c5:126:VAL:O	16:c5:130:ARG:NH2	2.32	0.63
74:d7:36:LYS:HZ3	74:d7:41:LEU:N	1.96	0.63
1:A:732:G:H1'	1:A:734:A:N6	2.14	0.62
1:A:905:A:H5"	15:P:52:ARG:HG3	1.81	0.62
1:A:1141:G:H2'	1:A:1142:A:C8	2.34	0.62
1:A:1310:U:HO2'	1:A:1402:G:HO2'	1.46	0.62
1:A:1598:U:OP1	80:A:1979:OHX:N5	2.32	0.62
26:AA:4:PHE:CZ	30:AD:35:ARG:HA	2.33	0.62
35:1:660:A:H5"	38:l:100:PHE:CD2	2.34	0.62
55:5:36:TYR:OH	55:5:82:LYS:HG2	1.99	0.62
35:AR:546:C:H5'	35:AR:547:G:H5'	1.81	0.62
35:AR:668:G:OP1	80:AR:3637:OHX:N1	2.31	0.62
35:AR:795:G:O6	80:AR:3437:OHX:N6	2.32	0.62
35:AR:1596:C:H2'	35:AR:1597:C:C6	2.34	0.62
35:AR:2108:C:H1'	35:AR:3344:A:C8	2.35	0.62
35:AR:3136:G:OP2	80:AR:3608:OHX:N3	2.32	0.62
55:CW:43:VAL:HG11	55:CW:50:LEU:HA	1.82	0.62
1:sR:329:G:H5"	10:s8:98:LYS:HB3	1.81	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:512:A:H2'	1:sR:513:U:H6	1.64	0.62
1:sR:1168:U:OP1	80:sR:1980:OHX:N1	2.32	0.62
1:sR:1261:G:H2'	1:sR:1262:U:C6	2.34	0.62
79:Rb:203:THR:N	79:Rb:212:ALA:HB3	2.14	0.62
79:Rb:218:GLY:HA3	79:Rb:238:ASP:O	1.99	0.62
3:s1:228:LEU:HD23	3:s1:229:MET:HG3	1.80	0.62
4:s2:41:LEU:O	4:s2:45:VAL:HG23	1.99	0.62
9:s7:73:VAL:HG23	9:s7:76:LYS:CE	2.29	0.62
16:c5:81:ARG:HH11	16:c5:117:GLY:HA2	1.63	0.62
1:A:541:A:O2'	1:A:542:A:H4'	1.99	0.62
1:A:901:G:H2'	1:A:902:G:C8	2.34	0.62
1:A:1494:C:H2'	1:A:1495:C:H6	1.63	0.62
1:A:1590:G:OP1	20:U:91:TYR:HB2	1.98	0.62
7:G:114:ILE:O	7:G:118:LEU:HD23	1.99	0.62
10:J:34:ALA:HB2	10:J:56:ARG:HD2	1.80	0.62
21:V:55:PRO:HA	21:V:91:ILE:CD1	2.29	0.62
33:CE:41:VAL:HG22	33:CE:185:GLY:HA3	1.81	0.62
37:4:103:G:OP2	37:4:105:A:O2'	2.18	0.62
43:q:20:ILE:HG12	43:q:25:VAL:HG22	1.80	0.62
35:AR:268:A:C4	48:CP:12:ARG:HG2	2.34	0.62
35:AR:291:C:OP1	48:CP:68:ARG:HB3	1.99	0.62
35:AR:3324:C:OP1	32:DF:19:ARG:NH2	2.32	0.62
61:DJ:54:VAL:O	61:DJ:58:ILE:HG13	1.99	0.62
72:a:68:ARG:HB2	72:a:70:LYS:HG3	1.80	0.62
73:b:4:LYS:HE2	73:b:5:ARG:NH1	2.14	0.62
73:b:23:CYS:HB2	73:b:74:CYS:HB3	1.82	0.62
2:s0:76:ILE:HD12	2:s0:98:ILE:HB	1.79	0.62
2:s0:168:HIS:HB3	2:s0:203:PHE:CZ	2.34	0.62
7:s5:199:ILE:HG22	7:s5:203:LYS:HD2	1.80	0.62
9:s7:25:VAL:HG13	9:s7:28:GLU:OE1	1.98	0.62
14:c3:48:SER:O	14:c3:52:VAL:HG23	1.98	0.62
1:A:707:A:O2'	1:A:731:C:N4	2.32	0.62
1:A:1521:G:O6	20:U:68:ARG:NH1	2.31	0.62
2:B:41:ARG:HB2	18:S:105:GLN:NE2	2.13	0.62
28:DC:73:LEU:HB2	28:DC:109:TYR:CD2	2.35	0.62
31:CD:77:ILE:HG21	31:CD:169:ILE:HD13	1.79	0.62
35:1:1564:U:H2'	35:1:1565:G:C8	2.34	0.62
35:1:1734:G:O6	80:1:3438:OHX:N3	2.31	0.62
37:4:74:U:O2	80:4:206:OHX:N3	2.32	0.62
43:q:129:ARG:H	43:q:157:ASN:HD21	1.47	0.62
35:AR:571:U:H2'	35:AR:572:A:H8	1.64	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1470:U:OP1	80:AR:3458:OHX:N6	2.33	0.62
35:AR:1485:G:O6	80:AR:3584:OHX:N1	2.32	0.62
40:CH:3:ALA:HB2	34:DG:77:ALA:HB2	1.81	0.62
79:h:114:ASP:OD1	79:h:115:ILE:N	2.30	0.62
1:sR:52:U:H2'	1:sR:53:G:H8	1.64	0.62
1:sR:105:A:OP1	10:s8:18:ARG:NH1	2.33	0.62
1:sR:1017:U:H2'	1:sR:1018:U:C6	2.34	0.62
12:c0:8:ARG:HA	12:c0:11:ILE:HG13	1.80	0.62
17:c6:31:VAL:HA	17:c6:67:VAL:HG13	1.81	0.62
1:A:97:C:H2'	1:A:98:U:C6	2.34	0.62
1:A:364:G:OP1	80:A:2135:OHX:N3	2.32	0.62
1:A:1524:A:H2'	1:A:1525:A:C8	2.35	0.62
1:A:1670:G:N7	80:A:2127:OHX:N5	2.47	0.62
4:D:139:ILE:HD13	4:D:191:ALA:HB1	1.80	0.62
7:G:156:ARG:C	7:G:157:ARG:HD3	2.23	0.62
23:X:8:ALA:HB2	23:X:74:VAL:HG11	1.80	0.62
24:Y:43:PHE:HE2	24:Y:48:HIS:HA	1.64	0.62
35:1:266:A:P	48:v:5:LYS:HZ1	2.22	0.62
35:1:1222:G:HO2'	35:1:1285:G:N2	1.97	0.62
44:r:185:ARG:HG3	44:r:190:VAL:HG11	1.81	0.62
57:7:45:ASN:HB3	57:7:48:ARG:HG3	1.81	0.62
47:CO:127:LYS:O	47:CO:131:VAL:HG23	2.00	0.62
53:CU:131:LYS:O	53:CU:134:ASP:HB2	2.00	0.62
56:CX:109:MET:HE2	56:CX:129:VAL:HA	1.81	0.62
1:sR:885:G:OP1	3:s1:216:LYS:NZ	2.33	0.62
1:sR:973:A:H2'	1:sR:974:A:H8	1.63	0.62
1:sR:1628:U:H2'	1:sR:1629:G:H8	1.63	0.62
79:Rb:38:ARG:HD3	79:Rb:67:ILE:HD12	1.81	0.62
2:s0:182:LEU:HD13	2:s0:188:LEU:HD23	1.82	0.62
20:c9:15:ILE:HD11	20:c9:63:ARG:NH1	2.13	0.62
25:d4:106:GLN:O	25:d4:110:GLN:HG3	1.99	0.62
1:A:917:U:OP2	80:A:2146:OHX:N2	2.32	0.62
3:C:164:ILE:HD13	3:C:207:LEU:HD21	1.82	0.62
11:K:170:GLY:O	11:K:174:ARG:HG2	2.00	0.62
24:Y:51:GLY:HA2	24:Y:77:ILE:HG23	1.82	0.62
28:AB:147:LEU:HD11	46:t:166:ALA:HB1	1.82	0.62
30:AD:25:LEU:HD22	30:AD:90:VAL:HG22	1.82	0.62
35:1:1233:G:N2	35:1:1255:C:H42	1.96	0.62
35:1:3121:U:H1'	35:1:3122:A:H5"	1.82	0.62
35:1:3231:U:H2'	35:1:3232:G:H8	1.65	0.62
80:1:3615:OHX:N6	65:AM:50:ASN:OD1	2.32	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
37:4:147:U:O4	80:4:238:OHX:N6	2.31	0.62
46:t:126:PHE:HD2	61:AI:115:LYS:HD2	1.64	0.62
35:AR:1201:C:OP1	80:AR:3699:OHX:N1	2.32	0.62
53:CU:35:VAL:HA	53:CU:38:LYS:HE3	1.80	0.62
55:CW:70:LYS:HD3	55:CW:71:PHE:N	2.14	0.62
64:DM:32:ASN:C	64:DM:33:LYS:HD3	2.24	0.62
75:d:54:LEU:HD22	75:d:55:VAL:H	1.63	0.62
1:sR:57:G:OP1	25:d4:112:LYS:NZ	2.27	0.62
23:d2:24:GLN:NE2	74:d7:5:GLN:H	1.97	0.62
6:F:196:VAL:N	6:F:209:HIS:O	2.28	0.62
7:G:145:ASP:OD1	7:G:146:THR:N	2.27	0.62
7:G:195:ALA:O	7:G:199:ILE:HG23	1.98	0.62
10:J:76:THR:HG21	10:J:104:ILE:HB	1.81	0.62
11:K:76:LEU:O	11:K:80:LEU:HG	1.99	0.62
11:K:109:LEU:HD23	11:K:129:ILE:HD13	1.81	0.62
17:R:55:VAL:HG21	17:R:105:LEU:CD2	2.30	0.62
19:T:36:LYS:HB3	19:T:105:VAL:HG11	1.80	0.62
20:U:49:ASP:HB3	20:U:53:TRP:HB3	1.81	0.62
23:X:24:GLN:HE22	74:c:4:VAL:HA	1.64	0.62
35:1:656:A:H2'	35:1:657:A:C8	2.34	0.62
35:1:1767:C:H2'	35:1:1768:U:C6	2.35	0.62
33:k:288:GLY:N	33:k:320:ASP:OD1	2.30	0.62
48:v:99:ARG:HD3	48:v:167:THR:HB	1.82	0.62
52:z:177:VAL:O	52:z:181:ARG:HB3	2.00	0.62
55:5:22:PRO:HB2	55:5:28:PHE:CG	2.35	0.62
58:8:100:LYS:HG3	58:8:105:VAL:O	1.99	0.62
35:AR:283:G:OP2	35:AR:285:A:O2'	2.17	0.62
35:AR:2371:G:O6	80:AR:3410:OHX:N4	2.33	0.62
35:AR:2677:G:OP2	80:AR:3650:OHX:N5	2.33	0.62
36:AS:79:A:OP2	80:AS:204:OHX:N3	2.33	0.62
38:CF:142:VAL:O	38:CF:145:ILE:HG13	2.00	0.62
41:CI:158:LYS:CG	41:CI:159:GLN:H	2.13	0.62
48:CP:46:ASP:OD1	48:CP:50:ARG:NH2	2.33	0.62
49:CQ:61:ALA:HA	49:CQ:70:PRO:HD2	1.81	0.62
51:CS:71:LEU:HD22	51:CS:99:THR:HG21	1.81	0.62
54:CV:9:SER:O	54:CV:55:LYS:HE2	2.00	0.62
34:DG:11:LYS:O	34:DG:12:LYS:HG2	1.99	0.62
73:b:36:ILE:HD11	73:b:73:TYR:HB2	1.81	0.62
1:sR:57:G:O6	80:sR:1946:OHX:N3	2.33	0.62
1:sR:333:A:H5'	10:s8:48:THR:HG21	1.81	0.62
1:sR:1144:U:H2'	1:sR:1145:U:C6	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1370:U:O4	80:sR:1997:OHX:N2	2.33	0.62
79:Rb:52:GLN:O	79:Rb:53:LYS:HD3	2.00	0.62
5:s3:157:LEU:HA	5:s3:189:MET:HE2	1.80	0.62
5:s3:168:ILE:HG22	5:s3:189:MET:HB2	1.81	0.62
9:s7:34:LEU:O	9:s7:38:LEU:HB2	2.00	0.62
20:c9:105:LEU:HD13	20:c9:122:ARG:HG2	1.81	0.62
21:d0:41:ILE:HA	21:d0:44:ASN:HB3	1.82	0.62
24:d3:102:VAL:HG12	24:d3:127:VAL:HG23	1.82	0.62
1:A:567:A:H1'	77:f:14:VAL:HG13	1.82	0.62
3:C:116:LYS:HB3	3:C:117:TRP:HE3	1.64	0.62
7:G:174:LEU:HD13	7:G:210:ALA:HB1	1.80	0.62
16:Q:86:VAL:H	16:Q:89:MET:HE2	1.64	0.62
17:R:33:GLY:HA3	20:U:7:ARG:HH21	1.63	0.62
17:R:71:GLY:O	17:R:77:GLN:NE2	2.33	0.62
17:R:83:GLN:HG2	17:R:87:LYS:NZ	2.15	0.62
18:S:5:ARG:O	18:S:10:LYS:HE3	2.00	0.62
28:AB:47:LYS:HG3	28:AB:47:LYS:O	1.99	0.62
28:AB:58:MET:HE3	35:1:2786:G:H21	1.65	0.62
26:DB:104:PRO:O	26:DB:107:ARG:N	2.32	0.62
35:1:3043:C:P	56:6:48:ARG:HH22	2.23	0.62
36:3:3:U:H2'	36:3:4:U:C6	2.35	0.62
35:AR:72:C:H4'	46:CN:63:VAL:HG12	1.80	0.62
35:AR:1222:G:C8	71:p0:57:THR:HB	2.35	0.62
35:AR:1574:C:H2'	35:AR:1575:A:H5"	1.80	0.62
35:AR:2682:C:O4'	45:CM:20:ASN:ND2	2.24	0.62
35:AR:2960:C:OP1	80:AR:3473:OHX:N3	2.32	0.62
35:AR:3231:U:H2'	35:AR:3232:G:H8	1.64	0.62
44:CL:14:ASN:O	44:CL:128:ARG:NH2	2.32	0.62
47:CO:19:ARG:HA	47:CO:69:THR:HG22	1.81	0.62
61:DJ:12:LYS:HB3	61:DJ:16:GLN:HG3	1.82	0.62
72:a:44:GLN:HG2	72:a:45:GLU:N	2.14	0.62
17:c6:29:ILE:CD1	17:c6:65:ILE:HG12	2.30	0.62
1:A:17:C:H4'	1:A:1109:G:C8	2.35	0.62
1:A:29:U:H2'	1:A:30:G:H8	1.65	0.62
1:A:1049:U:OP1	74:c:70:LYS:HB2	2.00	0.62
1:A:1586:A:H1'	1:A:1611:A:N6	2.14	0.62
12:L:11:ILE:HD12	12:L:42:VAL:HG13	1.81	0.62
26:DB:96:VAL:HA	26:DB:100:THR:HG21	1.81	0.62
35:1:364:G:OP1	38:l:60:THR:HG23	2.00	0.62
35:1:2298:U:OP1	80:1:3436:OHX:N5	2.33	0.62
35:AR:2582:C:OP1	80:AR:3627:OHX:N3	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CW:32:SER:OG	55:CW:83:TYR:OH	2.18	0.62
58:CZ:103:TYR:O	58:CZ:138:ARG:NH2	2.33	0.62
1:sR:469:C:O2	80:sR:1964:OHX:N4	2.32	0.62
1:sR:1316:G:O2'	1:sR:1401:A:O2'	2.15	0.62
5:s3:74:GLN:HB2	5:s3:79:TYR:O	2.00	0.62
1:A:513:U:OP1	11:K:133:HIS:NE2	2.32	0.62
1:A:866:G:H5"	14:O:2:GLY:HA2	1.81	0.62
17:R:52:LEU:HD13	17:R:60:PHE:CE1	2.35	0.62
21:V:17:GLN:H	21:V:97:VAL:HG22	1.65	0.62
28:AB:48:TYR:CG	46:t:6:ASN:HB2	2.35	0.62
33:CE:85:VAL:HB	33:CE:202:THR:HG22	1.82	0.62
35:1:18:G:OP2	58:8:46:TYR:OH	2.17	0.62
35:1:838:G:O6	69:AQ:4:ARG:NH2	2.32	0.62
35:1:1225:A:H2'	35:1:1226:G:C8	2.35	0.62
35:1:1768:U:H2'	35:1:1769:G:O4'	2.00	0.62
41:o:100:ARG:O	41:o:104:GLN:HG3	1.99	0.62
50:x:116:HIS:O	50:x:148:LEU:HA	2.00	0.62
52:z:77:GLY:O	52:z:81:ARG:HG3	2.00	0.62
60:AH:98:GLN:HB3	60:AH:102:LYS:NZ	2.15	0.62
35:AR:409:A:OP2	80:AR:3605:OHX:N3	2.33	0.62
35:AR:1485:G:N2	60:DI:4:ARG:HD2	2.15	0.62
35:AR:2686:A:OP2	80:AR:3420:OHX:N5	2.33	0.62
35:AR:2882:U:H2'	35:AR:2883:U:C6	2.34	0.62
42:CJ:108:ARG:O	42:CJ:111:LYS:HB3	1.99	0.62
1:sR:1171:A:H2'	1:sR:1172:G:H8	1.65	0.62
79:Rb:85:TRP:CD1	79:Rb:109:ASP:HB3	2.35	0.62
79:Rb:222:LEU:HD13	79:Rb:231:MET:HE2	1.80	0.62
4:s2:111:VAL:HG13	4:s2:191:ALA:HA	1.82	0.62
11:s9:29:LYS:O	11:s9:33:GLU:HG3	1.99	0.62
19:c8:29:VAL:HG13	19:c8:30:TYR:CD2	2.35	0.62
21:d0:96:PRO:O	21:d0:100:VAL:HG13	2.00	0.62
1:A:169:A:H5"	8:H:176:GLN:HG2	1.82	0.62
1:A:734:A:H5"	1:A:735:C:OP1	2.00	0.62
1:A:1530:C:P	72:a:95:HIS:HB2	2.40	0.62
8:H:57:ASP:HB3	8:H:106:LEU:HD23	1.82	0.62
15:P:17:ALA:CB	15:P:81:VAL:HA	2.30	0.62
18:S:104:ASN:O	18:S:107:SER:OG	2.17	0.62
20:U:28:LEU:HD13	20:U:55:TYR:OH	2.00	0.62
20:U:37:VAL:HG12	20:U:39:THR:H	1.64	0.62
48:v:172:ARG:HH21	48:v:174:ILE:HG13	1.64	0.62
35:AR:314:U:H2'	35:AR:315:C:C6	2.35	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:3084:C:OP2	80:AR:3407:OHX:N3	2.33	0.62
38:CF:26:PHE:CD2	38:CF:130:ALA:HB2	2.34	0.62
42:CJ:161:GLU:OE2	48:CP:26:ARG:NH1	2.28	0.62
47:CO:20:VAL:O	47:CO:66:THR:HB	1.99	0.62
49:CQ:4:GLU:O	49:CQ:31:GLN:NE2	2.33	0.62
1:sR:530:C:O2	25:d4:61:ARG:NH2	2.33	0.62
1:sR:788:A:OP2	6:s4:108:ARG:NH2	2.33	0.62
79:Rb:18:GLY:HA3	79:Rb:39:ASP:N	2.15	0.62
79:Rb:219:GLU:HA	79:Rb:235:SER:HA	1.82	0.62
72:d5:53:GLU:N	72:d5:53:GLU:OE2	2.33	0.62
1:A:401:A:H5"	87:A:2219:HOH:O	1.98	0.61
1:A:788:A:H2'	6:F:19:LEU:HD11	1.79	0.61
2:B:108:THR:HA	4:D:64:LYS:NZ	2.14	0.61
6:F:158:ASP:HB3	6:F:173:ILE:O	1.99	0.61
6:F:193:GLY:HA2	6:F:194:THR:HG23	1.81	0.61
16:Q:93:VAL:HA	16:Q:105:VAL:O	1.99	0.61
20:U:31:PRO:HD3	20:U:54:PHE:HE2	1.65	0.61
28:AB:147:LEU:CD1	46:t:166:ALA:HB1	2.29	0.61
31:CD:21:ARG:HD3	35:AR:824:C:H5"	1.82	0.61
31:CD:234:LYS:HG2	31:CD:238:ILE:HD12	1.82	0.61
55:5:57:THR:HG23	55:5:64:THR:HB	1.82	0.61
35:AR:530:G:N7	80:AR:3450:OHX:N6	2.47	0.61
35:AR:2586:G:N7	42:CJ:241:LYS:HB2	2.14	0.61
37:AT:8:C:H2'	37:AT:9:A:C8	2.34	0.61
39:CG:261:THR:HG22	39:CG:264:GLN:OE1	2.00	0.61
69:DR:74:ALA:O	69:DR:78:THR:HG23	2.00	0.61
1:sR:542:A:H61	77:e0:28:LYS:NZ	1.98	0.61
1:sR:962:C:OP2	14:c3:70:LYS:NZ	2.32	0.61
1:sR:1345:A:H5'	21:d0:53:LYS:HD2	1.81	0.61
79:Rb:278:PHE:O	80:Rb:401:OHX:N6	2.32	0.61
10:s8:60:ILE:HG21	10:s8:179:CYS:HB2	1.80	0.61
15:c4:85:ALA:H	15:c4:119:THR:HG22	1.65	0.61
1:A:679:U:H2'	1:A:680:U:C5	2.35	0.61
1:A:1785:U:H2'	1:A:1786:G:H8	1.63	0.61
3:C:108:ASP:HA	73:b:68:TYR:HE1	1.64	0.61
6:F:75:LYS:HD3	6:F:76:VAL:H	1.63	0.61
7:G:123:VAL:HG22	72:a:58:ARG:O	2.01	0.61
15:P:17:ALA:HB1	15:P:19:ILE:HD11	1.81	0.61
19:T:41:ARG:NH2	20:U:36:ILE:HG23	2.14	0.61
25:Z:86:GLU:HB3	25:Z:91:LEU:CD1	2.31	0.61
28:AB:2:PRO:HG2	28:AB:5:PHE:CD2	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:664:U:H2'	35:1:665:A:H8	1.64	0.61
35:1:1833:G:H5"	65:AM:10:LYS:HD2	1.81	0.61
35:1:2427:U:H2'	35:1:2428:U:C6	2.35	0.61
35:1:3140:G:OP1	33:k:20:LYS:NZ	2.32	0.61
33:k:291:GLU:CD	33:k:291:GLU:H	2.08	0.61
40:n:175:LYS:O	47:u:117:ARG:NH2	2.33	0.61
41:o:160:ARG:HB2	41:o:203:TRP:CD2	2.35	0.61
42:p:82:LEU:CD2	42:p:86:THR:HG23	2.30	0.61
45:s:60:ARG:NH2	68:AP:104:LEU:O	2.23	0.61
54:2:106:LEU:O	54:2:109:VAL:HG12	2.00	0.61
35:AR:1764:U:H3'	35:AR:1765:U:C4'	2.30	0.61
35:AR:1854:C:OP2	80:AR:3559:OHX:N6	2.33	0.61
35:AR:2580:A:O2'	80:AR:3627:OHX:N4	2.33	0.61
37:AT:8:C:H2'	37:AT:9:A:H8	1.64	0.61
51:CS:158:HIS:H	51:CS:186:VAL:HG12	1.65	0.61
57:CY:23:ARG:HG2	57:CY:24:GLY:H	1.63	0.61
1:sR:365:G:O6	80:sR:1988:OHX:N4	2.33	0.61
1:sR:399:A:H4'	6:s4:3:ARG:HG2	1.81	0.61
1:sR:1678:A:OP1	10:s8:59:ARG:NH2	2.33	0.61
79:Rb:106:HIS:NE2	79:Rb:124:SER:HB2	2.14	0.61
4:s2:130:ILE:O	4:s2:134:LEU:HD12	2.00	0.61
7:s5:44:ASN:O	7:s5:45:LYS:NZ	2.34	0.61
9:s7:153:LEU:HD22	9:s7:184:GLU:HB3	1.81	0.61
17:c6:18:ALA:HB2	17:c6:69:VAL:HG12	1.82	0.61
1:A:180:A:H2'	1:A:181:A:O4'	1.99	0.61
1:A:341:A:H2'	1:A:342:C:C6	2.35	0.61
2:B:163:ASN:OD1	2:B:165:ARG:HG2	2.01	0.61
9:I:58:LEU:O	9:I:90:VAL:HG23	2.00	0.61
14:O:129:TYR:HA	14:O:132:VAL:HG22	1.82	0.61
16:Q:63:ALA:HB1	16:Q:74:ALA:HB3	1.82	0.61
16:Q:128:HIS:HB2	70:i:71:ASN:ND2	2.14	0.61
20:U:30:VAL:HG22	20:U:54:PHE:CD2	2.35	0.61
30:AD:26:GLY:O	30:AD:30:THR:HG23	2.00	0.61
31:CD:3:ARG:HD2	35:AR:911:C:H42	1.66	0.61
32:AE:41:LYS:NZ	32:AE:45:GLY:O	2.31	0.61
35:1:2586:G:N7	42:p:241:LYS:HB2	2.15	0.61
44:r:86:HIS:HB3	44:r:139:ARG:HG2	1.82	0.61
35:AR:300:G:O6	80:AR:3672:OHX:N2	2.32	0.61
35:AR:1019:G:H22	35:AR:1033:U:H3	1.47	0.61
35:AR:3186:A:N3	43:CK:44:THR:OG1	2.33	0.61
35:AR:3231:U:H2'	35:AR:3232:G:C8	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AS:4:U:H2'	36:AS:5:G:C8	2.35	0.61
42:CJ:118:GLU:N	42:CJ:118:GLU:OE1	2.33	0.61
47:CO:94:TRP:O	47:CO:97:SER:OG	2.18	0.61
1:sR:701:U:H2'	1:sR:702:G:C8	2.35	0.61
1:sR:833:U:O4	80:sR:1957:OHX:N2	2.32	0.61
1:sR:1223:A:H2'	1:sR:1224:A:H8	1.65	0.61
1:sR:1464:G:H4'	17:c6:141:SER:HB3	1.81	0.61
2:s0:41:ARG:HD2	2:s0:42:PRO:HD2	1.83	0.61
3:s1:61:LEU:HA	3:s1:64:ARG:HH11	1.64	0.61
9:s7:63:PRO:O	9:s7:64:VAL:HG13	2.00	0.61
10:s8:136:SER:OG	10:s8:138:ASN:OD1	2.17	0.61
17:c6:28:LEU:O	17:c6:29:ILE:HD13	2.00	0.61
22:d1:85:TYR:CD2	74:d7:6:ASP:HB2	2.34	0.61
1:A:218:A:O2'	1:A:219:A:OP1	2.16	0.61
1:A:599:A:H2'	1:A:600:U:C6	2.35	0.61
1:A:1571:C:H3'	1:A:1572:G:H5"	1.82	0.61
1:A:1597:A:C8	76:e:14:TYR:CD2	2.88	0.61
1:A:1649:G:H2'	1:A:1650:U:C6	2.35	0.61
1:A:1669:U:OP2	80:A:2127:OHX:N1	2.32	0.61
4:D:230:TRP:NE1	23:X:68:ARG:HB3	2.15	0.61
7:G:183:ALA:HB2	7:G:193:THR:HG21	1.83	0.61
21:V:20:ILE:HD11	21:V:94:GLU:HA	1.82	0.61
23:X:86:ILE:HD12	23:X:87:GLU:N	2.15	0.61
28:AB:92:LYS:HD3	28:AB:93:SER:H	1.64	0.61
35:1:3193:C:H2'	35:1:3194:C:O4'	2.00	0.61
33:k:77:THR:HG23	33:k:326:GLY:O	2.00	0.61
68:AP:71:ARG:HH21	68:AP:80:ARG:CZ	2.05	0.61
35:AR:2566:C:H2'	35:AR:2567:C:C6	2.35	0.61
1:sR:340:U:H2'	1:sR:341:A:H8	1.64	0.61
1:sR:453:U:O4	80:sR:1918:OHX:N1	2.34	0.61
1:sR:1511:U:H2'	1:sR:1512:G:C8	2.35	0.61
79:Rb:123:ILE:HG22	79:Rb:133:VAL:HA	1.82	0.61
9:s7:172:VAL:O	9:s7:176:LEU:HD12	2.00	0.61
12:c0:77:ARG:HG3	12:c0:81:ASN:O	2.00	0.61
19:c8:91:ASP:OD1	19:c8:92:ILE:N	2.32	0.61
1:A:267:U:H2'	1:A:268:C:C6	2.36	0.61
1:A:585:A:H2'	1:A:586:G:H8	1.65	0.61
1:A:676:G:O6	1:A:677:G:N2	2.33	0.61
80:A:2129:OHX:N6	80:A:2149:OHX:N5	2.48	0.61
3:C:169:SER:O	3:C:173:THR:OG1	2.17	0.61
5:E:56:GLN:HA	5:E:59:LEU:HD12	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:G:44:ASN:ND2	7:G:69:PHE:O	2.34	0.61
10:J:120:THR:O	80:J:301:OHX:N5	2.33	0.61
17:R:49:TYR:O	17:R:53:LEU:HD12	2.00	0.61
21:V:37:VAL:HA	21:V:40:ASN:HB3	1.81	0.61
27:DA:55:GLU:HG3	27:DA:108:LYS:HE2	1.81	0.61
28:DC:119:PRO:HD3	51:CS:94:PHE:CZ	2.36	0.61
35:1:425:G:O6	80:1:3407:OHX:N6	2.33	0.61
35:1:2854:U:OP2	44:r:3:ARG:NH1	2.33	0.61
35:1:3165:A:H61	35:1:3285:C:H42	1.48	0.61
37:4:36:G:OP2	61:AI:85:THR:OG1	2.18	0.61
43:q:16:VAL:HG12	43:q:29:GLY:CA	2.30	0.61
52:z:139:VAL:O	52:z:143:ILE:HG23	2.01	0.61
56:6:112:SER:O	56:6:132:ASN:ND2	2.33	0.61
35:AR:662:U:H2'	35:AR:663:C:C6	2.35	0.61
38:CF:193:LYS:O	38:CF:198:ARG:HG2	2.01	0.61
40:CH:34:LEU:HD13	40:CH:63:LEU:HD11	1.82	0.61
40:CH:146:ILE:O	40:CH:150:LYS:HG3	1.99	0.61
43:CK:161:LEU:O	43:CK:164:ILE:HG22	2.01	0.61
47:CO:36:VAL:HG12	47:CO:75:GLY:HA2	1.81	0.61
48:CP:73:ARG:HG2	48:CP:75:VAL:HG13	1.81	0.61
77:f:55:ARG:HD2	77:f:58:PRO:HB3	1.81	0.61
1:sR:700:C:H2'	1:sR:701:U:C6	2.36	0.61
1:sR:900:A:OP1	15:c4:43:THR:OG1	2.13	0.61
1:sR:1050:G:O6	80:sR:2184:OHX:N6	2.34	0.61
1:sR:1520:U:O2	80:sR:1935:OHX:N6	2.34	0.61
3:s1:157:GLN:OE1	80:s1:301:OHX:N3	2.33	0.61
5:s3:54:ARG:HE	5:s3:57:ASP:CG	2.07	0.61
5:s3:72:LEU:HD11	12:c0:65:TYR:CD1	2.35	0.61
6:s4:183:VAL:HG13	6:s4:189:LEU:HA	1.82	0.61
78:e1:106:TYR:HD1	78:e1:116:LYS:H	1.48	0.61
1:A:329:G:H2'	1:A:330:G:C8	2.35	0.61
6:F:206:ASP:HB2	6:F:222:LEU:HD12	1.82	0.61
22:W:15:ARG:NH1	22:W:33:GLN:OE1	2.33	0.61
26:AA:26:VAL:HG23	26:AA:27:LYS:N	2.16	0.61
26:AA:26:VAL:HA	26:AA:89:VAL:HG21	1.83	0.61
26:DB:85:TYR:HE2	26:DB:129:TRP:CE2	2.19	0.61
30:AD:34:LEU:HD11	30:AD:42:ILE:HD13	1.81	0.61
35:1:847:A:H2'	35:1:848:A:C8	2.36	0.61
35:1:1119:C:H2'	35:1:1120:A:H8	1.64	0.61
35:1:2429:G:H2'	35:1:2430:A:H8	1.66	0.61
35:1:2874:G:N2	35:1:2945:G:N7	2.48	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:3364:C:OP1	80:1:3450:OHX:N2	2.33	0.61
61:AI:6:ALA:HA	61:AI:9:LEU:HD13	1.82	0.61
68:AP:15:LYS:O	68:AP:15:LYS:HG2	1.99	0.61
35:AR:849:C:H2'	35:AR:850:U:C6	2.34	0.61
35:AR:899:U:O4	80:AR:3464:OHX:N5	2.33	0.61
35:AR:1818:U:H2'	35:AR:1819:U:O4'	2.01	0.61
35:AR:1940:G:N2	35:AR:3362:A:H8	1.98	0.61
42:CJ:109:LEU:C	42:CJ:111:LYS:H	2.07	0.61
78:g:148:TYR:HD1	78:g:148:TYR:H	1.47	0.61
1:sR:591:A:H5"	11:s9:24:LEU:HD13	1.82	0.61
79:Rb:228:LYS:O	79:Rb:229:LYS:HG2	2.00	0.61
79:Rb:232:TYR:OH	79:Rb:234:LEU:HD11	2.00	0.61
24:d3:42:PRO:HG2	24:d3:122:PHE:HZ	1.66	0.61
72:d5:49:ARG:O	72:d5:53:GLU:OE2	2.18	0.61
1:A:947:U:P	3:C:165:ARG:HH11	2.24	0.61
1:A:1164:G:H2'	1:A:1165:G:C8	2.36	0.61
3:C:177:GLN:H	3:C:177:GLN:NE2	1.97	0.61
8:H:70:PRO:O	8:H:98:ARG:NH2	2.33	0.61
20:U:63:ARG:NE	20:U:67:MET:HE1	2.15	0.61
22:W:39:VAL:HA	22:W:45:ALA:HA	1.82	0.61
24:Y:102:VAL:HG12	24:Y:127:VAL:HA	1.83	0.61
29:AC:33:LYS:O	54:2:88:ARG:NH1	2.33	0.61
35:1:3228:C:H4'	35:1:3229:G:O5'	2.00	0.61
35:AR:196:G:N7	80:AR:3445:OHX:N3	2.47	0.61
71:p0:30:VAL:HG11	71:p0:38:MET:HE1	1.81	0.61
72:a:93:SER:HB3	72:a:100:ILE:H	1.64	0.61
79:h:201:THR:HG22	79:h:214:ALA:HB3	1.81	0.61
1:sR:1385:G:N7	80:sR:1977:OHX:N2	2.49	0.61
19:c8:61:LEU:HA	19:c8:65:GLU:OE2	2.01	0.61
21:d0:55:PRO:HA	21:d0:91:ILE:HG22	1.82	0.61
21:d0:68:ARG:H	76:d9:40:ARG:HH12	1.48	0.61
1:A:590:C:OP1	77:f:43:ARG:NH2	2.33	0.61
1:A:722:G:H3'	1:A:723:G:H5'	1.83	0.61
5:E:34:TYR:HA	5:E:52:ALA:HA	1.82	0.61
10:J:31:ARG:NH2	10:J:48:THR:HA	2.15	0.61
14:O:13:SER:HB3	74:c:21:LEU:HD11	1.82	0.61
23:X:86:ILE:O	23:X:90:THR:HG23	2.00	0.61
28:AB:69:TRP:CD1	46:t:64:LYS:HE3	2.36	0.61
35:1:1481:A:O2'	35:1:1858:A:N3	2.29	0.61
35:1:2193:U:H5'	35:1:2194:G:H5'	1.82	0.61
36:3:49:G:N7	39:m:58:LYS:HG3	2.16	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:3:112:G:H2'	36:3:113:C:C6	2.35	0.61
43:q:174:LYS:HB2	66:AN:127:LEU:HD21	1.81	0.61
35:AR:1799:A:H2'	35:AR:1800:A:H8	1.65	0.61
35:AR:1867:A:H2'	35:AR:1868:G:C8	2.36	0.61
35:AR:2537:U:O2'	35:AR:2538:U:O5'	2.19	0.61
35:AR:3160:U:H2'	35:AR:3161:C:C6	2.36	0.61
38:CF:77:VAL:O	38:CF:86:GLY:N	2.24	0.61
38:CF:162:THR:O	38:CF:166:VAL:HG23	2.01	0.61
1:sR:896:U:H2'	1:sR:897:C:C6	2.36	0.61
1:sR:1120:U:H2'	1:sR:1121:C:C6	2.35	0.61
1:sR:1367:G:H4'	20:c9:7:ARG:HH21	1.66	0.61
6:s4:51:ARG:HH11	6:s4:51:ARG:HA	1.64	0.61
7:s5:43:PHE:O	7:s5:44:ASN:C	2.42	0.61
12:c0:72:GLY:O	12:c0:76:LEU:HG	2.01	0.61
21:d0:98:GLN:O	21:d0:102:ARG:NH2	2.34	0.61
1:A:1324:G:OP2	80:A:1937:OHX:N1	2.34	0.61
4:D:235:LEU:O	4:D:235:LEU:HD23	2.01	0.61
16:Q:43:ARG:O	16:Q:47:ARG:HG3	2.00	0.61
17:R:82:ARG:NH2	17:R:114:ARG:O	2.33	0.61
23:X:111:MET:HE3	23:X:115:GLU:HG2	1.83	0.61
27:DA:14:LYS:NZ	35:AR:335:G:OP2	2.23	0.61
33:CE:343:TYR:CZ	33:CE:345:ASN:HB2	2.35	0.61
35:1:230:U:H2'	35:1:231:G:O4'	2.00	0.61
35:1:962:A:H4'	87:1:4203:HOH:O	2.00	0.61
35:1:1742:U:H2'	35:1:1743:G:C8	2.35	0.61
35:1:2209:U:O2'	35:1:2210:G:OP1	2.17	0.61
35:1:2228:A:H2'	35:1:2229:A:C8	2.35	0.61
31:j:40:TYR:HA	31:j:90:ALA:O	2.00	0.61
39:m:85:ARG:HH22	39:m:252:ALA:HB3	1.65	0.61
39:m:132:THR:HG21	39:m:170:GLY:HA2	1.83	0.61
42:p:98:ARG:HD3	42:p:98:ARG:N	2.14	0.61
47:u:13:ARG:NH1	47:u:65:LEU:O	2.34	0.61
35:AR:1119:C:H2'	35:AR:1120:A:H8	1.64	0.61
35:AR:1718:G:H4'	52:CT:117:LYS:HE3	1.82	0.61
35:AR:1750:A:H4'	35:AR:1751:G:H5'	1.82	0.61
35:AR:1764:U:C5	35:AR:1765:U:H1'	2.36	0.61
35:AR:1915:A:H2'	35:AR:1916:U:C6	2.36	0.61
48:CP:103:GLU:OE2	48:CP:118:SER:OG	2.19	0.61
52:CT:43:LYS:O	52:CT:46:LYS:HG3	2.01	0.61
34:DG:83:GLU:O	34:DG:86:THR:HG23	2.01	0.61
73:b:79:ILE:HG12	73:b:84:VAL:HG21	1.82	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:h:302:PHE:HD1	79:h:312:VAL:HG11	1.65	0.61
1:sR:646:C:H2'	1:sR:647:G:C8	2.36	0.61
8:s6:152:ASP:CB	8:s6:154:ARG:HH12	2.13	0.61
10:s8:82:VAL:HG13	10:s8:101:ILE:HG22	1.82	0.61
1:A:38:C:C2'	1:A:39:A:H5'	2.30	0.61
1:A:66:U:OP1	8:H:136:LYS:NZ	2.25	0.61
1:A:851:U:H2'	1:A:852:C:C6	2.35	0.61
1:A:1795:U:H4'	73:b:84:VAL:HG23	1.83	0.61
4:D:40:LYS:HB2	4:D:247:ALA:HB1	1.81	0.61
7:G:129:PRO:HA	7:G:132:VAL:HG22	1.83	0.61
19:T:56:LYS:HB3	19:T:60:GLU:OE2	2.00	0.61
20:U:129:GLN:CA	20:U:132:LEU:HG	2.31	0.61
21:V:46:GLU:OE1	21:V:52:LYS:NZ	2.29	0.61
33:k:147:GLU:O	33:k:151:ILE:HG13	2.01	0.61
41:o:83:LEU:HD11	41:o:116:PHE:HB3	1.82	0.61
42:p:24:ASN:HB3	42:p:25:PRO:HD3	1.83	0.61
59:AG:9:VAL:HG21	59:AG:44:TYR:HE2	1.65	0.61
35:AR:565:U:H2'	35:AR:566:G:H8	1.65	0.61
35:AR:602:A:H2'	35:AR:603:A:C8	2.35	0.61
35:AR:968:G:H2'	35:AR:969:C:C6	2.35	0.61
35:AR:1549:U:O4	80:AR:3597:OHX:N2	2.34	0.61
35:AR:2160:G:H2'	35:AR:2161:G:H8	1.66	0.61
35:AR:2653:C:P	68:DQ:89:LYS:HG3	2.41	0.61
42:CJ:139:VAL:O	42:CJ:143:ILE:HG13	2.01	0.61
55:CW:27:VAL:HG21	55:CW:107:PHE:HZ	1.66	0.61
73:b:50:VAL:HA	73:b:53:LEU:HD22	1.83	0.61
74:c:33:LEU:HA	74:c:80:ARG:O	2.01	0.61
79:h:147:HIS:CD2	79:h:173:GLY:HA3	2.36	0.61
1:sR:1591:C:H2'	1:sR:1592:A:H8	1.64	0.61
79:Rb:231:MET:SD	79:Rb:231:MET:N	2.73	0.61
3:s1:201:THR:OG1	3:s1:207:LEU:HD12	2.01	0.61
7:s5:99:MET:H	7:s5:180:ARG:HH12	1.49	0.61
10:s8:105:ASP:OD1	10:s8:107:THR:OG1	2.18	0.61
1:A:472:U:H2'	1:A:473:A:H8	1.65	0.60
1:A:603:U:H2'	1:A:604:A:C8	2.36	0.60
1:A:607:G:H5'	1:A:613:G:N2	2.16	0.60
1:A:808:U:H2'	1:A:809:A:H8	1.66	0.60
1:A:939:A:H2'	1:A:940:A:C8	2.36	0.60
1:A:1067:C:H5'	3:C:149:GLN:HA	1.81	0.60
1:A:1315:U:O2	18:S:4:VAL:HG11	2.01	0.60
2:B:159:ALA:HB3	22:W:66:ASP:OD2	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:54:GLU:N	4:D:54:GLU:OE1	2.32	0.60
5:E:40:ARG:HD2	21:V:110:PRO:HB3	1.83	0.60
16:Q:56:PHE:CE2	16:Q:60:LEU:HD11	2.36	0.60
18:S:47:ARG:HG3	18:S:47:ARG:NH1	2.16	0.60
35:1:679:U:O4	80:1:4144:OHX:N3	2.33	0.60
35:1:773:G:O6	80:1:3415:OHX:N6	2.33	0.60
35:1:1565:G:H2'	35:1:1566:A:O4'	2.01	0.60
35:1:2429:G:OP2	80:1:4148:OHX:N5	2.34	0.60
35:1:2683:U:H2'	35:1:2684:C:C6	2.36	0.60
35:AR:2369:G:H2'	35:AR:2370:G:C8	2.36	0.60
36:AS:112:G:H2'	36:AS:113:C:C6	2.36	0.60
37:AT:149:A:H2'	37:AT:150:G:C8	2.36	0.60
41:CI:132:PRO:HA	41:CI:229:PHE:CG	2.35	0.60
44:CL:42:THR:HG22	44:CL:44:ASP:H	1.66	0.60
79:h:112:SER:CB	79:h:154:VAL:H	2.12	0.60
79:h:241:PHE:HE2	79:h:288:HIS:CD2	2.19	0.60
1:sR:180:A:H2'	1:sR:181:A:O4'	2.00	0.60
1:sR:241:U:H2'	1:sR:242:U:C5	2.36	0.60
1:sR:1525:A:H5'	20:c9:93:HIS:HB2	1.82	0.60
79:Rb:232:TYR:CE1	79:Rb:265:LEU:HD12	2.36	0.60
19:c8:30:TYR:HE1	19:c8:40:ARG:HE	1.49	0.60
22:d1:56:SER:OG	22:d1:59:VAL:HG23	2.00	0.60
74:d7:62:ILE:HD11	74:d7:65:THR:HG22	1.83	0.60
1:A:216:U:OP2	80:A:1944:OHX:N4	2.34	0.60
1:A:1474:G:O2'	1:A:1475:A:O5'	2.19	0.60
1:A:1503:A:H2'	1:A:1504:G:O4'	2.00	0.60
6:F:178:GLY:H	6:F:195:ILE:HB	1.66	0.60
6:F:196:VAL:HB	6:F:209:HIS:CB	2.31	0.60
15:P:26:THR:HG21	15:P:97:GLY:HA3	1.82	0.60
26:DB:101:PHE:HA	26:DB:107:ARG:CG	2.30	0.60
35:1:15:C:OP1	35:1:15:C:H3'	2.01	0.60
35:1:19:U:H3	37:4:140:G:H1	1.49	0.60
35:1:2748:A:O3'	39:m:48:LYS:NZ	2.34	0.60
35:1:3194:C:H2'	35:1:3195:U:H5"	1.83	0.60
38:l:193:LYS:HA	38:l:198:ARG:HA	1.81	0.60
43:q:106:LYS:O	43:q:109:ALA:HB2	2.01	0.60
46:t:47:ALA:C	46:t:49:ARG:H	2.09	0.60
48:v:46:ASP:OD2	48:v:50:ARG:NH2	2.34	0.60
35:AR:3026:G:N7	80:AR:3441:OHX:N6	2.49	0.60
35:AR:3115:C:OP1	43:CK:62:ARG:NH2	2.32	0.60
79:h:42:LEU:O	79:h:61:PHE:HD1	1.84	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:66:U:O5'	8:s6:173:PRO:HA	2.01	0.60
1:sR:1681:A:H8	8:s6:65:GLN:HG3	1.65	0.60
12:c0:5:LYS:HD2	12:c0:9:ASN:HD22	1.65	0.60
19:c8:33:THR:HA	19:c8:38:VAL:HG23	1.82	0.60
21:d0:45:ALA:O	21:d0:50:LEU:N	2.27	0.60
72:d5:64:VAL:HG23	72:d5:68:ARG:NE	2.15	0.60
1:A:288:A:H2'	1:A:289:U:C6	2.36	0.60
1:A:1586:A:OP1	17:R:135:ARG:N	2.29	0.60
1:A:1767:G:OP2	1:A:1770:U:O2'	2.18	0.60
1:A:1783:C:H2'	1:A:1784:C:H6	1.66	0.60
7:G:73:THR:CG2	17:R:114:ARG:HD2	2.25	0.60
21:V:43:LYS:C	21:V:45:ALA:H	2.10	0.60
29:AC:17:HIS:HA	29:AC:20:GLY:HA2	1.83	0.60
35:1:819:U:H2'	35:1:820:A:H8	1.67	0.60
35:1:1166:G:O6	80:1:3401:OHX:N6	2.33	0.60
35:1:1659:U:H2'	35:1:1660:C:C6	2.36	0.60
44:r:72:ALA:HB2	44:r:155:ALA:HB2	1.83	0.60
51:y:34:THR:HA	51:y:49:LEU:HD22	1.82	0.60
35:AR:115:A:OP1	48:CP:49:ARG:NH1	2.34	0.60
35:AR:1631:C:H5"	35:AR:1632:A:H5"	1.83	0.60
54:CV:102:ARG:HG3	54:CV:103:GLN:OE1	2.01	0.60
32:DF:8:VAL:HG11	32:DF:10:ARG:HE	1.66	0.60
1:sR:152:U:O2	1:sR:163:G:N2	2.35	0.60
1:sR:405:C:OP1	80:sR:1913:OHX:N5	2.34	0.60
1:sR:423:G:OP1	80:sR:1913:OHX:N3	2.33	0.60
1:sR:919:A:C4'	15:c4:35:GLY:HA3	2.31	0.60
4:s2:115:ILE:HD12	4:s2:115:ILE:O	2.01	0.60
7:s5:43:PHE:HD2	7:s5:46:TRP:HD1	1.49	0.60
7:s5:73:THR:OG1	17:c6:114:ARG:HD3	2.01	0.60
11:s9:81:VAL:HG12	11:s9:86:LEU:HB3	1.84	0.60
20:c9:25:GLN:O	20:c9:27:LYS:HG2	2.01	0.60
20:c9:107:ALA:HA	20:c9:110:LYS:HE3	1.82	0.60
21:d0:36:ASN:OD1	21:d0:37:VAL:N	2.34	0.60
77:e0:42:ARG:HA	77:e0:46:ASN:HB2	1.84	0.60
1:A:1511:U:H2'	1:A:1512:G:H8	1.66	0.60
6:F:125:LYS:NZ	6:F:225:VAL:O	2.27	0.60
11:K:54:ARG:HG3	11:K:57:ARG:CZ	2.30	0.60
15:P:30:VAL:HG23	15:P:39:ILE:HB	1.82	0.60
31:CD:79:ASN:ND2	31:CD:165:VAL:HG12	2.16	0.60
35:1:1336:U:H2'	35:1:1337:A:H8	1.66	0.60
35:1:2395:G:N7	87:1:4210:HOH:O	2.32	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2593:A:H4'	35:1:2594:C:O5'	2.02	0.60
37:4:15:G:OP2	80:4:203:OHX:N4	2.34	0.60
38:l:359:LEU:HA	53:0:8:GLN:NE2	2.16	0.60
45:s:155:THR:HB	45:s:158:ASP:HB3	1.83	0.60
46:t:79:GLU:HG3	46:t:109:PHE:CD1	2.36	0.60
35:AR:1851:G:OP2	80:AR:3542:OHX:N2	2.34	0.60
35:AR:2835:U:H2'	35:AR:2836:C:O2	2.01	0.60
35:AR:3215:A:OP2	47:CO:125:LYS:NZ	2.33	0.60
38:CF:141:ARG:HB3	38:CF:176:SER:OG	2.01	0.60
45:CM:15:GLU:HG2	45:CM:16:LYS:HG2	1.82	0.60
61:DJ:101:THR:HG23	61:DJ:104:GLN:H	1.65	0.60
1:sR:407:A:H2'	1:sR:408:C:H6	1.63	0.60
79:Rb:249:ARG:NH2	79:Rb:315:VAL:HG21	2.17	0.60
1:A:479:C:H4'	11:K:120:LYS:HE3	1.84	0.60
1:A:955:A:H4'	1:A:1073:G:O2'	2.02	0.60
1:A:1483:A:N3	1:A:1607:G:O2'	2.29	0.60
2:B:173:ILE:HA	2:B:176:LEU:HD12	1.83	0.60
3:C:85:LYS:HB3	3:C:101:HIS:HB3	1.84	0.60
4:D:42:GLY:HA2	4:D:68:ILE:HD11	1.83	0.60
9:I:78:THR:HA	9:I:81:LEU:HD23	1.82	0.60
10:J:182:TYR:OH	10:J:188:GLU:OE2	2.16	0.60
12:L:60:SER:HB3	12:L:65:TYR:CE2	2.30	0.60
35:1:394:G:N7	80:1:3440:OHX:N6	2.49	0.60
36:3:49:G:C5	39:m:58:LYS:HG3	2.35	0.60
33:k:303:LYS:HD2	33:k:361:THR:HG21	1.82	0.60
43:q:106:LYS:H	43:q:109:ALA:CB	2.15	0.60
46:t:74:GLY:CA	46:t:98:ASP:HB2	2.27	0.60
35:AR:870:G:N7	80:AR:3468:OHX:N5	2.50	0.60
38:CF:12:THR:HA	38:CF:171:ALA:HB1	1.83	0.60
45:CM:53:THR:HG23	45:CM:60:ARG:HA	1.83	0.60
55:CW:91:ASP:H	55:CW:94:ARG:NH2	1.98	0.60
58:CZ:139:ILE:HD11	58:CZ:141:TYR:CE2	2.36	0.60
34:DG:126:LEU:HD12	34:DG:128:LEU:H	1.66	0.60
70:sM:77:THR:HG22	1:sR:1460:A:N6	2.16	0.60
79:h:181:TRP:CE3	79:h:188:ILE:HB	2.37	0.60
1:sR:337:G:H3'	13:c1:133:LYS:HB2	1.82	0.60
4:s2:68:ILE:H	4:s2:68:ILE:HD12	1.66	0.60
7:s5:63:GLN:OE1	7:s5:66:GLN:N	2.34	0.60
11:s9:141:VAL:HG11	11:s9:146:PHE:CD2	2.35	0.60
13:c1:14:GLN:HB3	13:c1:54:ILE:HG13	1.83	0.60
14:c3:29:SER:O	14:c3:32:SER:OG	2.19	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:d7:19:HIS:CD2	74:d7:21:LEU:H	2.18	0.60
1:A:639:U:OP1	9:I:117:THR:OG1	2.19	0.60
2:B:9:LEU:HD21	2:B:54:TRP:CD2	2.37	0.60
2:B:83:GLN:O	2:B:87:LEU:HD23	2.02	0.60
8:H:48:TYR:CD2	8:H:117:GLY:HA3	2.36	0.60
20:U:135:ILE:HD12	20:U:136:ALA:N	2.17	0.60
27:DA:54:ASP:OD2	27:DA:115:ARG:NH2	2.33	0.60
35:1:1298:C:OP2	80:1:3476:OHX:N2	2.34	0.60
35:1:1934:G:N7	80:1:4127:OHX:N2	2.49	0.60
43:q:109:ALA:HB1	43:q:111:PHE:CD2	2.36	0.60
48:v:183:THR:O	48:v:183:THR:OG1	2.19	0.60
49:w:18:ARG:O	49:w:22:VAL:HG12	2.01	0.60
57:7:6:ASP:HB3	57:7:10:GLY:H	1.67	0.60
62:AJ:35:ASN:HA	62:AJ:38:LYS:HB2	1.82	0.60
35:AR:158:G:H2'	35:AR:159:A:H8	1.67	0.60
35:AR:1626:U:H2'	35:AR:1627:U:C6	2.37	0.60
35:AR:1675:G:OP1	55:CW:70:LYS:HD2	2.02	0.60
37:AT:62:C:O2	80:AT:209:OHX:N4	2.35	0.60
38:CF:36:HIS:O	38:CF:40:THR:HG23	2.02	0.60
42:CJ:54:GLU:HG3	42:CJ:57:ARG:NH1	2.17	0.60
42:CJ:100:GLU:OE2	42:CJ:108:ARG:NH1	2.34	0.60
45:CM:80:LEU:O	45:CM:84:LEU:HD12	2.02	0.60
47:CO:119:GLN:O	47:CO:123:LEU:HD12	2.02	0.60
55:CW:90:ARG:HE	55:CW:94:ARG:HH22	1.49	0.60
77:f:41:THR:O	77:f:45:VAL:HG22	2.00	0.60
1:sR:1233:G:N2	1:sR:1253:U:H1'	2.16	0.60
7:s5:25:LEU:HB2	17:c6:26:LYS:O	2.01	0.60
16:c5:23:GLU:HA	16:c5:26:LEU:CD2	2.30	0.60
17:c6:93:HIS:HA	17:c6:97:VAL:HG12	1.81	0.60
77:e0:50:VAL:HG12	77:e0:52:GLY:N	2.12	0.60
1:A:93:A:H1'	6:F:3:ARG:HB3	1.83	0.60
1:A:625:C:H2'	1:A:626:U:C6	2.36	0.60
1:A:927:C:H2'	1:A:928:U:H6	1.66	0.60
1:A:1599:C:O2	80:A:2151:OHX:N5	2.35	0.60
3:C:69:CYS:SG	15:P:114:ARG:NH2	2.75	0.60
6:F:179:LYS:O	6:F:195:ILE:CD1	2.49	0.60
7:G:147:THR:HG23	7:G:160:VAL:HG21	1.84	0.60
7:G:182:ALA:O	7:G:186:ASN:ND2	2.35	0.60
8:H:38:GLY:O	8:H:41:VAL:HG22	2.01	0.60
8:H:166:GLU:N	8:H:166:GLU:OE1	2.35	0.60
9:I:99:LEU:O	9:I:112:ARG:NH2	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1033:U:H2'	35:1:1034:U:C6	2.36	0.60
35:1:1621:A:H2'	35:1:1622:U:C6	2.36	0.60
35:1:2419:A:H2'	35:1:2420:C:C6	2.36	0.60
35:1:2916:U:H5	35:1:2935:U:HO2'	1.48	0.60
46:t:74:GLY:HA3	46:t:98:ASP:CB	2.31	0.60
55:5:22:PRO:HA	55:5:107:PHE:CZ	2.36	0.60
35:AR:261:U:H2'	35:AR:262:U:C6	2.36	0.60
35:AR:1220:U:OP1	35:AR:1221:A:O2'	2.20	0.60
35:AR:1597:C:H2'	35:AR:1598:G:H8	1.66	0.60
35:AR:1747:G:O3'	64:DM:53:THR:HG21	2.02	0.60
35:AR:2787:G:H2'	35:AR:2788:C:H6	1.66	0.60
37:AT:6:U:H2'	37:AT:7:U:H6	1.66	0.60
44:CL:169:LYS:HG3	54:CV:159:PHE:HA	1.82	0.60
48:CP:172:ARG:O	48:CP:183:THR:OG1	2.20	0.60
58:CZ:137:ASN:HB3	58:CZ:142:ILE:HD11	1.84	0.60
1:sR:827:C:H2'	1:sR:828:U:C6	2.36	0.60
79:Rb:76:ASP:OD1	79:Rb:76:ASP:N	2.35	0.60
11:s9:84:GLY:HA3	11:s9:107:ARG:NH1	2.16	0.60
2:B:41:ARG:HH21	2:B:45:VAL:HG12	1.66	0.60
4:D:121:VAL:O	4:D:125:ILE:HG13	2.01	0.60
12:L:46:LEU:O	12:L:50:THR:HG23	2.01	0.60
15:P:19:ILE:HG23	15:P:28:VAL:HG22	1.82	0.60
15:P:111:ARG:HG3	73:b:57:SER:HA	1.84	0.60
21:V:28:SER:HB2	21:V:112:VAL:HA	1.84	0.60
28:AB:75:LEU:HA	28:AB:78:LEU:HB2	1.82	0.60
29:DD:23:LYS:CD	29:DD:24:PRO:HD2	2.30	0.60
35:1:662:U:H2'	35:1:663:C:C6	2.36	0.60
35:1:1464:G:OP2	80:1:3640:OHX:N3	2.35	0.60
35:1:2514:U:H5'	42:p:68:ARG:HG2	1.83	0.60
37:4:40:A:H2'	37:4:41:A:C8	2.37	0.60
44:r:99:ILE:HG22	44:r:123:HIS:HB2	1.84	0.60
51:y:104:LEU:HD23	51:y:124:LEU:HD13	1.84	0.60
35:AR:2255:A:OP2	80:AR:3449:OHX:N2	2.35	0.60
35:AR:3086:A:OP1	80:AR:4234:OHX:N3	2.34	0.60
38:CF:138:ARG:HG2	38:CF:138:ARG:O	2.00	0.60
45:CM:37:LEU:O	45:CM:41:SER:OG	2.15	0.60
52:CT:167:ARG:HD2	52:CT:167:ARG:N	2.17	0.60
72:a:59:TYR:CD1	72:a:60:VAL:N	2.66	0.60
79:h:199:ILE:HA	79:h:215:GLY:HA2	1.83	0.60
79:Rb:102:ARG:HH11	79:Rb:102:ARG:HG2	1.65	0.60
16:c5:53:PRO:O	16:c5:57:MET:N	2.22	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:d0:27:THR:HG23	21:d0:113:ASP:HB3	1.82	0.60
21:d0:68:ARG:O	76:d9:40:ARG:NH2	2.23	0.60
1:A:413:U:H2'	1:A:414:C:H6	1.67	0.60
1:A:1041:G:OP1	80:A:1974:OHX:N3	2.35	0.60
1:A:1459:C:OP1	19:T:126:ARG:NH2	2.35	0.60
1:A:1524:A:N3	1:A:1590:G:O2'	2.29	0.60
2:B:5:ALA:C	2:B:7:PHE:H	2.10	0.60
2:B:63:ILE:HG23	22:W:36:VAL:HG23	1.83	0.60
6:F:179:LYS:H	6:F:195:ILE:HD13	1.67	0.60
7:G:161:ASP:HB3	75:d:54:LEU:HD11	1.83	0.60
25:Z:126:ALA:HA	25:Z:129:VAL:HG22	1.82	0.60
42:p:134:TYR:CG	42:p:190:VAL:HG21	2.37	0.60
68:AP:2:VAL:N	68:AP:90:HIS:O	2.35	0.60
35:AR:2407:C:H2'	35:AR:2408:U:H6	1.67	0.60
57:CY:49:ILE:O	57:CY:52:THR:HG22	2.01	0.60
60:DI:42:PRO:HG2	60:DI:54:ILE:HG21	1.83	0.60
68:DQ:78:LYS:HE2	68:DQ:80:ARG:CZ	2.32	0.60
79:h:71:CYS:O	79:h:72:THR:HG22	2.01	0.60
1:sR:83:G:OP2	80:sR:1954:OHX:N4	2.34	0.60
1:sR:1018:U:H2'	1:sR:1019:A:C8	2.36	0.60
1:sR:1389:C:O2'	18:c7:52:GLY:HA3	2.02	0.60
1:sR:1469:A:H2'	1:sR:1470:C:C6	2.37	0.60
1:sR:1767:G:OP1	1:sR:1770:U:H4'	2.02	0.60
79:Rb:228:LYS:CD	5:s3:224:ASP:HB2	2.28	0.60
3:s1:66:VAL:HA	15:c4:34:SER:HB2	1.84	0.60
9:s7:67:LEU:HD22	9:s7:94:ALA:HB2	1.83	0.60
77:e0:39:LEU:O	77:e0:43:ARG:HB2	2.01	0.60
78:e1:133:ALA:N	78:e1:140:TYR:O	2.33	0.60
13:M:123:VAL:HG23	13:M:142:VAL:HA	1.84	0.60
16:Q:98:ASN:HB3	16:Q:120:SER:OG	2.01	0.60
20:U:74:GLY:HA2	20:U:77:ASN:HD22	1.66	0.60
26:AA:38:PHE:O	26:AA:40:HIS:ND1	2.22	0.60
35:1:2881:C:H2'	35:1:2882:U:H6	1.67	0.60
80:1:4141:OHX:N2	41:o:217:PRO:O	2.34	0.60
38:l:361:HIS:O	53:0:28:ARG:NH1	2.35	0.60
41:o:239:LEU:O	41:o:243:MET:HG3	2.01	0.60
49:w:185:ALA:O	49:w:188:SER:HB3	2.02	0.60
60:AH:98:GLN:O	60:AH:102:LYS:HG2	2.02	0.60
68:AP:71:ARG:C	68:AP:72:LEU:HD12	2.27	0.60
68:AP:102:GLN:OE1	68:AP:102:GLN:HA	2.01	0.60
35:AR:410:U:O4	80:AR:3605:OHX:N1	2.35	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:990:U:H4'	54:CV:100:LYS:HG3	1.84	0.60
35:AR:2426:U:H2'	35:AR:2427:U:C6	2.37	0.60
35:AR:2714:G:OP2	68:DQ:10:THR:OG1	2.10	0.60
40:CH:143:LYS:HG3	40:CH:144:ALA:N	2.17	0.60
79:h:101:GLN:HG2	79:h:137:LYS:C	2.26	0.60
1:sR:294:C:H5'	6:s4:133:LYS:NZ	2.17	0.60
1:sR:701:U:H2'	1:sR:702:G:H8	1.67	0.60
7:s5:25:LEU:HD23	7:s5:29:ILE:CD1	2.31	0.60
7:s5:159:ALA:HB2	7:s5:221:ALA:O	2.02	0.60
11:s9:133:HIS:HD2	11:s9:162:SER:HB2	1.67	0.60
20:c9:53:TRP:HA	20:c9:56:LYS:HD3	1.84	0.60
4:D:111:VAL:CG1	4:D:191:ALA:HA	2.32	0.59
5:E:35:SER:O	5:E:35:SER:OG	2.20	0.59
5:E:46:THR:O	5:E:84:ILE:HG13	2.01	0.59
7:G:120:ILE:O	7:G:123:VAL:N	2.30	0.59
13:M:22:ASN:OD1	13:M:24:LYS:N	2.33	0.59
14:O:55:ARG:HH22	74:c:51:GLN:NE2	1.99	0.59
15:P:48:VAL:CG2	15:P:53:ASP:HB2	2.32	0.59
20:U:117:SER:H	20:U:122:ARG:HA	1.67	0.59
35:1:1194:G:H2'	35:1:1195:A:C8	2.37	0.59
41:o:25:GLN:CD	41:o:29:GLU:HB2	2.27	0.59
49:w:7:VAL:HB	49:w:33:ILE:HD13	1.84	0.59
57:7:9:SER:O	57:7:53:VAL:HG12	2.01	0.59
35:AR:290:G:H4'	48:CP:69:GLY:O	2.02	0.59
35:AR:734:C:H2'	35:AR:735:A:O4'	2.02	0.59
35:AR:1104:G:H2'	35:AR:1105:A:H8	1.67	0.59
35:AR:1528:G:O2'	35:AR:1588:A:N3	2.32	0.59
35:AR:2278:C:OP1	80:AR:3593:OHX:N5	2.35	0.59
48:CP:192:LYS:O	48:CP:196:THR:OG1	2.17	0.59
61:DJ:12:LYS:HZ2	61:DJ:20:GLN:HE22	1.50	0.59
61:DJ:29:ALA:HA	61:DJ:32:LYS:HE2	1.83	0.59
1:sR:438:A:OP1	80:sR:1920:OHX:N6	2.35	0.59
1:sR:887:A:H2'	1:sR:888:U:H6	1.66	0.59
1:sR:1236:A:H1'	78:e1:138:ARG:NH2	2.16	0.59
1:sR:1645:G:H1	1:sR:1756:A:H61	1.48	0.59
10:s8:114:GLU:HA	10:s8:118:GLY:H	1.65	0.59
19:c8:27:LYS:HA	19:c8:57:ARG:HB3	1.84	0.59
20:c9:115:GLU:OE2	20:c9:123:ARG:NH1	2.35	0.59
1:A:156:A:H2'	1:A:157:A:O4'	2.02	0.59
1:A:598:U:H2'	1:A:599:A:H8	1.67	0.59
1:A:702:G:N2	1:A:703:G:H1'	2.17	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:892:A:H2'	1:A:893:U:C6	2.37	0.59
1:A:959:U:H5'	14:O:15:ALA:O	2.02	0.59
1:A:1424:A:H2'	1:A:1425:A:C8	2.37	0.59
1:A:1511:U:H2'	1:A:1512:G:C8	2.37	0.59
2:B:9:LEU:HD21	2:B:54:TRP:CD1	2.36	0.59
3:C:177:GLN:CD	3:C:177:GLN:N	2.60	0.59
4:D:68:ILE:HG22	4:D:72:LEU:HD11	1.84	0.59
7:G:48:PHE:HE1	7:G:64:VAL:HB	1.67	0.59
9:I:121:VAL:O	9:I:125:ILE:HG13	2.02	0.59
9:I:143:LEU:HD12	9:I:149:ILE:HD13	1.84	0.59
23:X:17:ALA:O	23:X:20:THR:OG1	2.21	0.59
33:CE:250:ALA:HB1	35:AR:2947:G:C2	2.37	0.59
35:1:433:A:OP2	59:AG:57:LYS:NZ	2.27	0.59
35:1:539:C:H2'	35:1:540:U:C6	2.37	0.59
35:1:2094:C:H2'	35:1:2095:G:H8	1.68	0.59
35:1:2406:C:H2'	35:1:2407:C:H6	1.67	0.59
35:1:2818:U:H5'	35:1:2818:U:H6	1.67	0.59
35:1:2986:U:H2'	35:1:2987:A:H8	1.67	0.59
33:k:305:ILE:H	33:k:305:ILE:HD12	1.67	0.59
43:q:5:GLN:OE1	43:q:6:THR:N	2.35	0.59
44:r:161:GLY:O	44:r:163:GLN:NE2	2.35	0.59
53:0:6:GLU:OE2	53:0:28:ARG:NE	2.30	0.59
35:AR:872:U:H2'	35:AR:873:C:C6	2.37	0.59
35:AR:1336:U:OP2	80:AR:4237:OHX:N6	2.35	0.59
35:AR:2560:C:O2	80:AR:3534:OHX:N2	2.35	0.59
35:AR:3164:C:H1'	35:AR:3165:A:H5'	1.82	0.59
59:DH:14:LEU:HD11	59:DH:31:LYS:HB2	1.82	0.59
60:DI:82:ALA:O	60:DI:86:LYS:N	2.31	0.59
68:DQ:77:CYS:SG	68:DQ:79:THR:OG1	2.56	0.59
1:sR:1558:U:H3	16:c5:122:THR:HG22	1.66	0.59
79:Rb:132:LYS:HA	79:Rb:143:THR:HA	1.84	0.59
79:Rb:208:GLY:O	79:Rb:225:LEU:HD21	2.02	0.59
7:s5:109:LYS:O	7:s5:113:ILE:HG13	2.01	0.59
9:s7:51:VAL:HG22	9:s7:55:LYS:O	2.03	0.59
14:c3:150:VAL:O	14:c3:151:ASN:HB2	2.02	0.59
21:d0:101:LYS:HB3	21:d0:102:ARG:HH11	1.67	0.59
1:A:635:A:H2'	1:A:636:A:H8	1.66	0.59
1:A:1120:U:H2'	1:A:1121:C:H6	1.67	0.59
3:C:32:ILE:HD12	3:C:96:LEU:CD2	2.31	0.59
3:C:83:LYS:N	3:C:104:ASP:O	2.29	0.59
11:K:107:ARG:NH1	11:K:112:GLN:HE21	2.00	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:S:17:ILE:HD12	18:S:58:MET:SD	2.42	0.59
33:CE:244:ARG:O	33:CE:248:LYS:NZ	2.27	0.59
35:1:371:G:O6	80:1:3564:OHX:N2	2.34	0.59
35:1:385:A:H2'	35:1:386:A:C8	2.38	0.59
35:1:2713:U:OP1	68:AP:9:LYS:HD2	2.01	0.59
35:1:3229:G:P	47:u:137:LYS:HZ1	2.25	0.59
37:4:10:A:H2'	37:4:11:C:C6	2.37	0.59
43:q:22:SER:H	47:u:8:LYS:HE2	1.67	0.59
46:t:123:ILE:HG22	61:AI:118:ILE:HG12	1.85	0.59
56:6:5:GLY:HA3	56:6:106:LYS:O	2.01	0.59
56:6:86:ARG:HB2	56:6:92:PHE:CD1	2.37	0.59
35:AR:269:G:H5"	48:CP:14:LYS:HE3	1.83	0.59
35:AR:1317:A:OP1	80:AR:3600:OHX:N4	2.35	0.59
35:AR:1833:G:H5"	65:DN:10:LYS:HD3	1.83	0.59
35:AR:1942:U:OP2	52:CT:74:ARG:NH1	2.35	0.59
35:AR:2678:A:C5	70:sM:44:PRO:HB3	2.37	0.59
73:b:43:ASN:HA	73:b:66:LYS:HB3	1.84	0.59
1:sR:1491:U:H4'	1:sR:1492:A:H5"	1.84	0.59
15:c4:64:ALA:O	15:c4:67:VAL:HG22	2.02	0.59
16:c5:49:MET:HE2	16:c5:49:MET:HA	1.84	0.59
20:c9:24:ARG:HH11	20:c9:24:ARG:HG3	1.67	0.59
21:d0:46:GLU:OE1	21:d0:49:ASN:ND2	2.30	0.59
1:A:778:G:H22	25:Z:10:ARG:NH2	2.00	0.59
1:A:894:U:H2'	1:A:895:G:H8	1.67	0.59
1:A:1097:U:H5"	1:A:1099:U:O4'	2.02	0.59
3:C:116:LYS:HB3	3:C:117:TRP:CE3	2.37	0.59
4:D:56:ILE:HG23	4:D:61:LEU:HB2	1.84	0.59
7:G:219:ARG:HG2	7:G:219:ARG:O	2.01	0.59
19:T:28:ILE:O	19:T:32:LEU:HG	2.02	0.59
27:DA:53:ASP:HB2	27:DA:110:HIS:HD2	1.66	0.59
28:DC:93:SER:O	28:DC:93:SER:OG	2.20	0.59
35:1:968:G:H2'	35:1:969:C:C6	2.36	0.59
35:1:1742:U:H2'	35:1:1743:G:H8	1.66	0.59
35:1:1743:G:H2'	35:1:1744:G:H8	1.66	0.59
35:1:2801:A:O2'	35:1:2802:A:H2'	2.02	0.59
36:3:71:G:H2'	36:3:72:A:C8	2.38	0.59
43:q:76:ASP:O	43:q:79:ILE:HG12	2.02	0.59
52:z:39:ASN:O	52:z:43:LYS:HG3	2.02	0.59
55:5:80:THR:HG21	55:5:95:PHE:HD2	1.67	0.59
63:AK:54:LYS:O	63:AK:58:THR:HG23	2.03	0.59
37:AT:53:A:H2'	37:AT:54:A:H8	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CG:294:ALA:O	80:CG:303:OHX:N5	2.35	0.59
40:CH:93:VAL:O	40:CH:96:VAL:HG22	2.02	0.59
42:CJ:128:LYS:NZ	42:CJ:202:GLU:OE1	2.31	0.59
44:CL:145:LYS:O	44:CL:149:VAL:HG13	2.02	0.59
50:CR:60:PHE:HB3	50:CR:64:ASN:HB3	1.85	0.59
51:CS:102:ALA:HB3	51:CS:127:LEU:HD12	1.84	0.59
53:CU:13:ARG:HA	53:CU:56:GLY:HA2	1.85	0.59
57:CY:27:LYS:HB3	57:CY:29:PHE:HE1	1.66	0.59
1:sR:75:U:O2'	1:sR:76:A:O5'	2.20	0.59
1:sR:413:U:H2'	1:sR:414:C:H6	1.67	0.59
1:sR:448:C:OP1	6:s4:29:PRO:HD3	2.02	0.59
1:sR:952:A:O2'	14:c3:114:ARG:HG3	2.02	0.59
1:sR:1018:U:H2'	1:sR:1019:A:H8	1.68	0.59
1:sR:1285:U:O2'	1:sR:1286:U:OP1	2.20	0.59
1:sR:1503:A:H2'	1:sR:1504:G:O4'	2.02	0.59
1:sR:1579:U:OP2	80:sR:2028:OHX:N3	2.35	0.59
16:c5:75:PRO:HA	16:c5:93:VAL:HB	1.85	0.59
17:c6:29:ILE:HA	17:c6:65:ILE:HB	1.83	0.59
25:d4:41:ARG:HG2	25:d4:55:VAL:HG13	1.84	0.59
78:e1:118:ARG:CZ	78:e1:132:LEU:H	2.16	0.59
1:A:57:G:OP1	25:Z:112:LYS:NZ	2.24	0.59
1:A:1358:G:H2'	1:A:1359:C:C6	2.38	0.59
1:A:1450:U:H2'	1:A:1451:C:C6	2.37	0.59
2:B:88:LYS:NZ	18:S:79:GLU:O	2.35	0.59
5:E:178:ARG:HD2	5:E:179:GLN:N	2.17	0.59
6:F:100:ARG:HG3	6:F:100:ARG:HH11	1.68	0.59
6:F:123:LEU:HA	6:F:160:VAL:O	2.02	0.59
7:G:112:ARG:HD2	17:R:43:ILE:HG12	1.84	0.59
8:H:44:GLU:OE2	8:H:44:GLU:N	2.17	0.59
11:K:37:LYS:HG3	11:K:38:ASN:N	2.17	0.59
20:U:42:GLY:HA2	20:U:84:LYS:HB2	1.85	0.59
28:DC:58:MET:HE1	35:AR:2775:U:H1'	1.83	0.59
28:DC:112:ILE:HB	28:DC:130:VAL:HG22	1.83	0.59
28:DC:117:ARG:HG2	35:AR:716:A:C5	2.37	0.59
35:1:541:U:H2'	35:1:542:G:C8	2.38	0.59
35:1:1110:U:H2'	35:1:1111:U:C6	2.37	0.59
35:1:1498:A:H2'	35:1:1499:C:C6	2.38	0.59
31:j:229:ALA:HB3	31:j:234:LYS:HG3	1.85	0.59
33:k:345:ASN:OD1	33:k:347:SER:HB3	2.03	0.59
39:m:163:LEU:HD11	39:m:175:HIS:CD2	2.37	0.59
64:AL:8:ILE:H	64:AL:8:ILE:HD12	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:2177:G:O6	80:AR:3476:OHX:N1	2.36	0.59
35:AR:2228:A:H2'	35:AR:2229:A:C8	2.38	0.59
35:AR:2406:C:H2'	35:AR:2407:C:H6	1.66	0.59
55:CW:37:LEU:O	55:CW:41:ILE:HD12	2.02	0.59
73:b:54:SER:HB3	73:b:61:GLU:CD	2.27	0.59
79:h:90:ARG:HD2	79:h:92:TRP:CZ2	2.37	0.59
1:sR:703:G:H2'	1:sR:704:C:C6	2.37	0.59
1:sR:918:U:H2'	1:sR:919:A:H8	1.67	0.59
1:sR:1066:C:OP1	3:s1:151:LYS:NZ	2.24	0.59
1:sR:1263:G:H2'	1:sR:1264:G:O4'	2.01	0.59
2:s0:4:PRO:HB2	2:s0:6:THR:HG23	1.83	0.59
2:s0:9:LEU:HD21	2:s0:14:ALA:HB2	1.83	0.59
5:s3:35:SER:HB2	5:s3:100:ALA:HB2	1.84	0.59
5:s3:76:ARG:HG3	5:s3:77:PHE:CE1	2.38	0.59
5:s3:143:ARG:O	5:s3:143:ARG:HG3	2.03	0.59
6:s4:118:GLU:HA	6:s4:121:TYR:CE1	2.37	0.59
8:s6:166:GLU:HG2	8:s6:167:LYS:HG2	1.84	0.59
1:A:480:G:P	11:K:120:LYS:HZ1	2.25	0.59
1:A:1611:A:O2'	7:G:95:ASN:O	2.20	0.59
10:J:136:SER:O	10:J:140:GLU:HG2	2.02	0.59
31:CD:69:TYR:OH	35:AR:2557:A:OP1	2.20	0.59
31:CD:90:ALA:HB1	31:CD:101:VAL:HG22	1.84	0.59
35:1:2506:U:H2'	35:1:2507:C:C6	2.38	0.59
45:s:156:LYS:O	45:s:160:VAL:HG13	2.03	0.59
54:2:110:LYS:HD2	54:2:111:ALA:N	2.17	0.59
56:6:6:ALA:HB2	56:6:126:TRP:CH2	2.38	0.59
35:AR:1239:C:H42	35:AR:1249:G:H22	1.50	0.59
35:AR:1786:G:H2'	35:AR:1787:A:C8	2.38	0.59
35:AR:2662:G:N7	80:AR:3401:OHX:N3	2.50	0.59
35:AR:2818:U:H5'	35:AR:2818:U:H6	1.65	0.59
35:AR:3112:G:N7	80:AR:3419:OHX:N6	2.50	0.59
38:CF:138:ARG:HG2	38:CF:138:ARG:NH1	2.13	0.59
40:CH:43:LEU:HD11	40:CH:85:ILE:HG13	1.83	0.59
79:h:35:SER:OG	79:h:43:ILE:N	2.29	0.59
1:sR:563:U:H4'	77:e0:17:GLN:NE2	2.17	0.59
1:sR:1474:G:H2'	1:sR:1475:A:H8	1.66	0.59
2:s0:63:ILE:HG22	22:d1:36:VAL:HA	1.84	0.59
1:A:333:A:H2'	1:A:334:G:C8	2.38	0.59
1:A:916:U:H3	15:P:41:ARG:HH12	1.50	0.59
1:A:1483:A:C2	1:A:1607:G:H1'	2.38	0.59
8:H:2:LYS:HG3	8:H:17:GLU:HG2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:110:ARG:NH2	35:1:3354:U:H3	2.01	0.59
14:O:30:SER:HB3	14:O:66:ILE:O	2.02	0.59
15:P:24:ASN:O	15:P:54:GLU:HB2	2.03	0.59
22:W:35:ASN:HD22	22:W:52:THR:HG22	1.67	0.59
24:Y:70:LYS:HB3	24:Y:93:LEU:HD22	1.84	0.59
26:DB:26:VAL:HG12	26:DB:89:VAL:CG2	2.33	0.59
35:1:693:A:H2'	35:1:694:C:C6	2.36	0.59
35:1:2611:U:H2'	35:1:2612:U:C6	2.37	0.59
35:1:3092:C:O2'	35:1:3094:A:OP2	2.14	0.59
38:l:295:ILE:O	38:l:299:ILE:HG12	2.02	0.59
39:m:163:LEU:HD11	39:m:175:HIS:HD2	1.68	0.59
40:n:9:TRP:CD1	40:n:10:TYR:N	2.71	0.59
45:s:51:ARG:O	45:s:61:ARG:HG3	2.03	0.59
45:s:166:LYS:HE2	45:s:166:LYS:HA	1.84	0.59
46:t:126:PHE:CD2	61:AI:115:LYS:HD2	2.38	0.59
47:u:77:ARG:O	47:u:81:VAL:HG23	2.03	0.59
50:x:138:LYS:HD2	50:x:140:GLU:HG3	1.82	0.59
60:AH:109:THR:HA	60:AH:112:ALA:HB3	1.85	0.59
63:AK:14:LYS:HZ1	65:AM:51:ILE:HD11	1.67	0.59
64:AL:23:ALA:CB	64:AL:73:LEU:HD11	2.33	0.59
35:AR:664:U:H2'	35:AR:665:A:H8	1.64	0.59
35:AR:2211:U:OP1	80:AR:3692:OHX:N5	2.36	0.59
35:AR:2924:U:O4	80:AR:3562:OHX:N4	2.36	0.59
35:AR:2947:G:H2'	35:AR:2948:C:H6	1.66	0.59
41:CI:138:TYR:CE2	41:CI:233:GLU:HB2	2.38	0.59
51:CS:85:GLY:O	51:CS:104:LEU:HB2	2.03	0.59
51:CS:105:ARG:HG3	51:CS:105:ARG:HH11	1.68	0.59
55:CW:39:ASP:O	55:CW:47:VAL:HG21	2.03	0.59
60:DI:98:GLN:HE22	60:DI:102:LYS:HG3	1.67	0.59
64:DM:66:ILE:HG21	64:DM:77:ARG:HH12	1.66	0.59
68:DQ:10:THR:HA	68:DQ:20:HIS:CE1	2.37	0.59
72:a:53:GLU:O	72:a:57:TYR:CE1	2.56	0.59
1:sR:735:C:H2'	1:sR:736:C:C6	2.37	0.59
3:s1:32:ILE:HA	3:s1:96:LEU:HG	1.84	0.59
9:s7:74:GLN:NE2	9:s7:92:PHE:HB2	2.16	0.59
72:d5:61:SER:H	72:d5:64:VAL:CG1	2.15	0.59
1:A:110:U:O4	80:A:1933:OHX:N3	2.36	0.59
1:A:1076:A:P	73:b:13:LYS:HZ2	2.26	0.59
2:B:179:ARG:HD3	2:B:183:ARG:HD2	1.83	0.59
3:C:119:THR:CG2	3:C:143:THR:HG21	2.32	0.59
26:DB:27:LYS:HE2	26:DB:29:HIS:HE1	1.66	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AC:47:LEU:HD21	35:1:1086:C:H1'	1.85	0.59
28:DC:67:HIS:NE2	35:AR:71:A:OP2	2.35	0.59
31:CD:3:ARG:HD2	35:AR:911:C:N4	2.18	0.59
32:AE:72:ARG:NH1	32:AE:104:LEU:HB3	2.18	0.59
33:CE:152:LYS:O	33:CE:188:ILE:HD11	2.02	0.59
35:1:361:A:H5'	63:AK:35:SER:OG	2.03	0.59
35:1:945:C:H2'	35:1:946:U:C6	2.38	0.59
35:1:1717:U:H2'	35:1:1718:G:H8	1.66	0.59
37:4:16:G:O6	80:4:203:OHX:N1	2.36	0.59
39:m:58:LYS:HD3	39:m:93:THR:HG21	1.82	0.59
43:q:47:LYS:NZ	47:u:5:SER:O	2.31	0.59
44:r:54:SER:HB2	44:r:135:ILE:HD11	1.84	0.59
35:AR:1566:A:H3'	35:AR:1567:U:H5"	1.83	0.59
35:AR:1845:G:O2'	63:DL:5:THR:HG22	2.03	0.59
35:AR:2152:A:H2'	35:AR:2153:U:H6	1.68	0.59
1:sR:831:U:O2'	1:sR:832:U:H5'	2.02	0.59
1:sR:1031:U:H4'	1:sR:1032:G:OP2	2.02	0.59
79:Rb:10:ARG:HD3	79:Rb:51:ASP:CG	2.27	0.59
2:s0:20:ALA:O	2:s0:169:SER:HB2	2.03	0.59
3:s1:181:LEU:O	3:s1:185:THR:HG22	2.03	0.59
11:s9:163:PRO:HB3	11:s9:170:GLY:N	2.15	0.59
19:c8:3:LEU:H	72:d5:78:ILE:HD11	1.68	0.59
19:c8:11:PHE:CZ	19:c8:59:GLY:HA3	2.37	0.59
24:d3:48:HIS:HB3	24:d3:103:LEU:HD21	1.83	0.59
72:d5:39:ALA:H	72:d5:71:ILE:HA	1.68	0.59
74:d7:59:CYS:O	74:d7:61:THR:HG23	2.02	0.59
1:A:836:U:H2'	1:A:837:G:C8	2.38	0.59
2:B:54:TRP:O	2:B:57:LEU:N	2.36	0.59
2:B:134:LYS:O	2:B:137:SER:OG	2.20	0.59
9:I:48:GLU:HA	9:I:58:LEU:HD22	1.85	0.59
27:DA:82:VAL:HB	27:DA:85:VAL:HG22	1.84	0.59
31:CD:241:ARG:HG2	35:AR:2155:G:OP1	2.03	0.59
30:DE:100:ILE:HG13	30:DE:101:LEU:H	1.68	0.59
35:1:45:A:OP2	48:v:85:THR:HG21	2.02	0.59
35:1:1420:C:OP2	38:l:193:LYS:NZ	2.36	0.59
35:1:1722:U:OP2	52:z:103:ARG:NH1	2.35	0.59
35:1:2653:C:P	68:AP:89:LYS:HB2	2.43	0.59
35:1:2672:G:O3'	45:s:95:ASN:HA	2.03	0.59
37:4:8:C:H2'	37:4:9:A:H8	1.68	0.59
40:n:76:LEU:HD11	40:n:141:VAL:HG21	1.84	0.59
42:p:81:THR:OG1	42:p:181:LYS:HG3	2.02	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:p:158:ASP:HB3	42:p:159:PRO:HD3	1.84	0.59
43:q:3:TYR:HA	53:0:142:GLN:NE2	2.18	0.59
45:s:109:HIS:HB3	45:s:123:PHE:O	2.03	0.59
50:x:168:LEU:CD1	50:x:173:ARG:HG3	2.32	0.59
61:AI:100:VAL:HG12	61:AI:104:GLN:HB3	1.83	0.59
35:AR:155:G:H21	62:DK:26:ILE:HD11	1.67	0.59
39:CG:206:GLN:O	39:CG:210:GLU:HG3	2.03	0.59
42:CJ:57:ARG:O	42:CJ:61:GLN:HG3	2.02	0.59
74:c:31:TYR:O	74:c:48:SER:OG	2.21	0.59
1:sR:1015:U:OP1	80:sR:1912:OHX:N1	2.36	0.59
79:Rb:98:GLU:OE2	79:Rb:99:THR:N	2.32	0.59
19:c8:45:LEU:HA	19:c8:48:LYS:HG3	1.84	0.59
22:d1:34:ILE:HD11	22:d1:53:TYR:CD2	2.38	0.59
72:d5:92:ILE:HG23	72:d5:100:ILE:HD13	1.85	0.59
1:A:1332:C:OP2	18:S:45:ARG:NE	2.35	0.59
1:A:1502:G:N7	20:U:102:ARG:NH2	2.51	0.59
8:H:137:ARG:HE	8:H:177:ARG:HE	1.51	0.59
10:J:88:ASN:O	10:J:91:VAL:HG22	2.03	0.59
18:S:47:ARG:HH12	18:S:48:ASN:ND2	2.01	0.59
19:T:57:ARG:HG3	72:a:41:ILE:HD12	1.85	0.59
19:T:100:THR:HG21	19:T:108:LYS:HG3	1.85	0.59
33:CE:128:LYS:HD2	35:AR:3294:A:H5"	1.85	0.59
35:1:100:A:H2'	35:1:101:G:N3	2.18	0.59
35:1:417:A:H2'	35:1:418:A:C8	2.38	0.59
35:1:507:U:H2'	35:1:508:U:C6	2.37	0.59
35:1:2383:C:H5'	49:w:71:PHE:HE2	1.67	0.59
35:1:2768:U:H2'	35:1:2769:A:H8	1.68	0.59
44:r:211:ARG:HG3	44:r:212:GLU:OE1	2.02	0.59
35:AR:75:G:H5"	46:CN:58:VAL:HG22	1.84	0.59
35:AR:656:A:H2'	35:AR:657:A:C8	2.38	0.59
35:AR:2581:U:H2'	35:AR:2582:C:H6	1.68	0.59
35:AR:2927:C:H2'	35:AR:2928:C:C6	2.38	0.59
37:AT:83:C:H1'	37:AT:85:G:N2	2.18	0.59
38:CF:38:VAL:O	38:CF:42:VAL:HG23	2.02	0.59
38:CF:351:PRO:HA	41:CI:71:ALA:HA	1.85	0.59
44:CL:220:GLN:O	80:CL:301:OHX:N5	2.35	0.59
47:CO:21:VAL:HB	47:CO:63:VAL:HG13	1.84	0.59
71:p0:24:SER:OG	71:p0:191:TYR:O	2.19	0.59
13:c1:21:ASN:ND2	13:c1:30:ARG:O	2.36	0.59
75:d8:57:MET:SD	75:d8:57:MET:N	2.76	0.59
1:A:324:U:OP1	13:M:133:LYS:NZ	2.30	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:820:U:H2'	1:A:821:U:H4'	1.85	0.58
1:A:1424:A:H2'	1:A:1425:A:H8	1.68	0.58
2:B:42:PRO:HD2	18:S:105:GLN:NE2	2.17	0.58
15:P:16:VAL:CG2	15:P:31:THR:HG22	2.33	0.58
19:T:80:LYS:O	19:T:80:LYS:HG3	2.03	0.58
23:X:104:LEU:HB2	23:X:124:LYS:O	2.02	0.58
27:DA:32:SER:HA	27:DA:49:PRO:HA	1.84	0.58
28:DC:2:PRO:HD3	35:AR:792:G:H5"	1.85	0.58
33:CE:79:VAL:HG23	33:CE:81:THR:HG23	1.85	0.58
35:1:745:C:H5"	51:y:145:ASN:OD1	2.03	0.58
35:1:786:A:H4'	35:1:787:G:H5'	1.85	0.58
35:1:2308:C:O2	80:1:3630:OHX:N5	2.36	0.58
35:1:2786:G:O6	80:1:3538:OHX:N1	2.35	0.58
35:1:3143:C:O2'	80:1:3426:OHX:N2	2.36	0.58
33:k:41:VAL:HG12	33:k:186:GLY:H	1.68	0.58
43:q:106:LYS:H	43:q:109:ALA:HB3	1.67	0.58
49:w:73:PHE:CD2	49:w:78:ARG:HD3	2.38	0.58
52:z:95:TRP:CZ2	52:z:99:LEU:HD22	2.38	0.58
52:z:168:ALA:HA	52:z:171:ASP:OD1	2.03	0.58
35:AR:419:G:N7	80:AR:3406:OHX:N3	2.51	0.58
35:AR:437:G:N1	35:AR:621:A:N1	2.51	0.58
35:AR:1013:G:N7	80:AR:3606:OHX:N3	2.50	0.58
35:AR:1415:U:O4	80:AR:3643:OHX:N1	2.36	0.58
35:AR:2680:A:C2	45:CM:57:PHE:HB3	2.38	0.58
35:AR:2745:G:N2	35:AR:2748:A:OP2	2.36	0.58
39:CG:5:LYS:HD2	39:CG:5:LYS:H	1.67	0.58
49:CQ:18:ARG:O	49:CQ:22:VAL:HG13	2.02	0.58
70:sM:76:VAL:HG23	1:sR:1460:A:C6	2.38	0.58
1:sR:1317:C:H2'	1:sR:1318:G:O4'	2.03	0.58
1:sR:1477:G:OP1	20:c9:43:ASN:HB3	2.03	0.58
1:sR:1514:U:H1'	5:s3:6:SER:HA	1.84	0.58
2:s0:167:LYS:O	2:s0:170:ILE:HD12	2.03	0.58
6:s4:118:GLU:OE2	6:s4:237:SER:N	2.28	0.58
7:s5:26:ALA:HB3	17:c6:27:GLY:HA3	1.85	0.58
8:s6:152:ASP:HB3	8:s6:154:ARG:HH22	1.68	0.58
14:c3:45:LEU:HA	14:c3:49:GLN:HE21	1.67	0.58
15:c4:117:ASP:OD1	15:c4:119:THR:HG23	2.03	0.58
22:d1:36:VAL:HG11	22:d1:78:LEU:CD1	2.33	0.58
1:A:197:A:H2'	1:A:198:A:C8	2.38	0.58
1:A:1160:A:H2'	1:A:1161:C:H6	1.67	0.58
9:I:46:ILE:CD1	9:I:60:ILE:HA	2.33	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Q:111:MET:HG2	19:T:119:ILE:HG23	1.84	0.58
25:Z:84:LYS:HG3	25:Z:85:PHE:CD1	2.37	0.58
31:CD:65:ASP:HB3	31:CD:68:LYS:O	2.02	0.58
35:1:329:U:OP2	80:1:3539:OHX:N4	2.36	0.58
35:1:994:G:H3'	54:2:13:TYR:CD2	2.38	0.58
35:1:1440:G:N7	80:1:3447:OHX:N2	2.51	0.58
35:1:1597:C:H2'	35:1:1598:G:H8	1.68	0.58
35:1:1601:U:P	52:z:42:ARG:HH22	2.26	0.58
43:q:124:ARG:HH11	43:q:124:ARG:HG3	1.68	0.58
45:s:170:ASP:HB3	45:s:172:LEU:HD23	1.84	0.58
48:v:188:ARG:HH11	48:v:188:ARG:HG3	1.67	0.58
51:y:96:PHE:CD1	51:y:97:PRO:HD2	2.38	0.58
53:0:123:ILE:O	54:2:153:PRO:HG2	2.03	0.58
62:AJ:86:LYS:NZ	62:AJ:89:GLU:OE1	2.37	0.58
35:AR:3255:U:H2'	35:AR:3256:G:C8	2.38	0.58
39:CG:51:LEU:HB2	39:CG:144:VAL:HG11	1.83	0.58
70:sM:68:ARG:HH11	70:sM:68:ARG:HG2	1.69	0.58
79:Rb:96:THR:HG23	79:Rb:98:GLU:N	2.18	0.58
79:Rb:171:SER:CB	79:Rb:181:TRP:HE1	2.16	0.58
6:s4:191:ARG:CZ	6:s4:245:LYS:HG2	2.34	0.58
6:s4:205:PHE:CE2	6:s4:221:ARG:NH1	2.69	0.58
7:s5:25:LEU:HD12	17:c6:27:GLY:HA2	1.84	0.58
9:s7:61:PHE:HA	9:s7:93:LEU:O	2.03	0.58
25:d4:40:LEU:O	25:d4:44:LEU:HD12	2.03	0.58
78:e1:143:LYS:HE3	78:e1:147:VAL:HG21	1.84	0.58
1:A:730:G:H21	1:A:731:C:H5'	1.67	0.58
1:A:1091:A:H5"	1:A:1091:A:N3	2.19	0.58
1:A:1201:G:N2	1:A:1600:A:H5"	2.19	0.58
1:A:1258:U:H4'	12:L:2:LEU:HB2	1.85	0.58
1:A:1530:C:OP1	72:a:95:HIS:HB2	2.03	0.58
2:B:29:VAL:HG23	2:B:150:ASP:HB3	1.85	0.58
3:C:38:PHE:HA	3:C:74:GLN:HE22	1.69	0.58
8:H:175:ILE:HD11	8:H:178:LEU:HB2	1.84	0.58
10:J:152:ILE:HG13	10:J:153:GLU:H	1.67	0.58
13:M:29:LYS:HZ3	13:M:33:ARG:H	1.49	0.58
14:O:55:ARG:HA	14:O:60:VAL:O	2.03	0.58
17:R:9:THR:HG21	17:R:88:GLY:HA2	1.84	0.58
20:U:117:SER:HB2	20:U:123:ARG:HG2	1.85	0.58
35:1:1281:G:H2'	35:1:1282:G:H8	1.68	0.58
35:1:1530:U:OP1	80:4:237:OHX:N6	2.36	0.58
35:1:2881:C:H2'	35:1:2882:U:C6	2.38	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2897:A:H2'	35:1:2899:C:H5"	1.84	0.58
31:j:101:VAL:HB	31:j:165:VAL:HG22	1.85	0.58
43:q:103:ILE:HD12	43:q:103:ILE:O	2.03	0.58
44:r:76:MET:HE3	44:r:87:LEU:HD22	1.85	0.58
46:t:187:ALA:HA	46:t:190:LYS:HE3	1.85	0.58
47:u:8:LYS:HG3	47:u:9:ALA:N	2.17	0.58
47:u:50:LYS:HD3	47:u:85:TRP:CD1	2.38	0.58
55:5:35:LYS:HD3	55:5:35:LYS:O	2.03	0.58
56:6:90:GLY:O	57:7:16:GLY:HA2	2.03	0.58
35:AR:2534:G:H21	35:AR:2535:A:H62	1.48	0.58
35:AR:2746:A:H2'	35:AR:2747:A:O4'	2.02	0.58
35:AR:2768:U:H2'	35:AR:2769:A:H8	1.67	0.58
37:AT:81:U:O2'	37:AT:82:U:OP2	2.20	0.58
40:CH:164:SER:OG	40:CH:166:LYS:NZ	2.34	0.58
42:CJ:94:PHE:HB3	42:CJ:189:LEU:CD1	2.33	0.58
69:DR:33:GLN:OE1	69:DR:49:ARG:NH1	2.36	0.58
72:a:60:VAL:HG21	72:a:101:TYR:HB2	1.84	0.58
79:h:228:LYS:O	79:h:229:LYS:HD2	2.02	0.58
1:sR:489:C:O2'	1:sR:490:C:O5'	2.18	0.58
1:sR:1181:U:H5"	16:c5:130:ARG:HG3	1.85	0.58
1:sR:1358:G:H2'	1:sR:1359:C:C6	2.38	0.58
8:s6:189:HIS:CE1	8:s6:193:LEU:HD11	2.38	0.58
15:c4:113:GLY:HA3	73:d6:59:TYR:CD2	2.38	0.58
1:A:514:G:O2'	1:A:515:A:H5'	2.03	0.58
1:A:522:U:O2'	25:Z:60:PHE:O	2.22	0.58
1:A:641:G:H2'	1:A:642:G:C8	2.39	0.58
1:A:755:A:H2'	1:A:756:A:C8	2.38	0.58
1:A:1231:U:H4'	1:A:1258:U:H6	1.68	0.58
1:A:1294:G:O2'	2:B:108:THR:OG1	2.16	0.58
1:A:1401:A:P	18:S:60:ARG:HH12	2.26	0.58
1:A:1529:C:OP1	7:G:112:ARG:HD3	2.03	0.58
1:A:1570:A:H2'	1:A:1571:C:O4'	2.03	0.58
5:E:115:ILE:HG21	70:i:110:TRP:HA	1.86	0.58
6:F:155:LYS:HB2	6:F:174:LYS:HZ1	1.68	0.58
11:K:96:VAL:HA	11:K:99:LEU:HD12	1.85	0.58
23:X:16:ASN:O	23:X:20:THR:HG23	2.03	0.58
23:X:27:ILE:HG12	23:X:61:ILE:HB	1.85	0.58
25:Z:31:ASN:O	25:Z:31:ASN:ND2	2.37	0.58
28:AB:96:LYS:HD2	46:t:159:VAL:HG11	1.85	0.58
26:DB:108:GLU:HA	26:DB:111:LYS:HB2	1.86	0.58
29:AC:18:ARG:O	80:AC:102:OHX:N2	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:AD:70:PHE:HD1	30:AD:71:GLN:N	2.02	0.58
35:1:1578:C:H3'	35:1:1579:C:C6	2.38	0.58
35:1:2356:A:H5'	50:x:138:LYS:HE3	1.85	0.58
35:1:2986:U:H2'	35:1:2987:A:C8	2.39	0.58
47:u:55:ARG:NH2	47:u:76:ALA:O	2.37	0.58
35:AR:129:U:H2'	35:AR:130:A:C8	2.38	0.58
35:AR:192:C:H2'	35:AR:193:C:H6	1.67	0.58
35:AR:420:G:O6	80:AR:3435:OHX:N3	2.36	0.58
35:AR:1171:G:O6	80:AR:3504:OHX:N3	2.36	0.58
35:AR:1621:A:H2'	35:AR:1622:U:C6	2.39	0.58
35:AR:2344:U:H2'	35:AR:2345:A:C8	2.38	0.58
35:AR:2356:A:OP1	50:CR:138:LYS:NZ	2.37	0.58
37:AT:6:U:H2'	37:AT:7:U:C6	2.38	0.58
37:AT:143:U:OP1	48:CP:38:ARG:NH2	2.36	0.58
40:CH:28:GLN:HE21	40:CH:57:HIS:HE1	1.51	0.58
41:CI:158:LYS:CD	41:CI:159:GLN:H	2.16	0.58
45:CM:30:LEU:HD11	45:CM:67:VAL:HG13	1.85	0.58
46:CN:62:THR:O	46:CN:65:TYR:N	2.32	0.58
76:e:21:CYS:H	76:e:25:SER:HA	1.67	0.58
1:sR:15:U:H2'	1:sR:16:G:O4'	2.03	0.58
1:sR:852:C:H2'	1:sR:853:G:C8	2.38	0.58
5:s3:40:ARG:HD3	21:d0:110:PRO:HB3	1.85	0.58
10:s8:192:TYR:O	10:s8:196:LEU:HD12	2.03	0.58
23:d2:35:ILE:HD12	23:d2:36:LYS:N	2.18	0.58
1:A:1508:U:O4	80:A:1973:OHX:N5	2.36	0.58
2:B:48:ILE:HG21	2:B:161:PRO:HB2	1.86	0.58
7:G:115:LYS:NZ	7:G:119:ASP:OD2	2.28	0.58
11:K:4:ALA:O	11:K:6:ARG:NH1	2.36	0.58
11:K:134:ILE:HG22	11:K:158:PHE:CD1	2.37	0.58
13:M:75:VAL:HG12	13:M:121:ASP:O	2.03	0.58
16:Q:103:ASN:HD21	70:i:56:GLY:HA2	1.68	0.58
28:AB:23:GLY:O	28:AB:24:LYS:HB2	2.01	0.58
33:CE:266:ARG:HH22	35:AR:2392:C:HO2'	1.44	0.58
35:1:265:A:H5"	62:AJ:34:SER:HB2	1.84	0.58
35:1:2160:G:H2'	35:1:2161:G:C8	2.37	0.58
35:1:2217:U:H2'	35:1:2218:G:H8	1.68	0.58
35:1:2419:A:H2'	35:1:2420:C:H6	1.68	0.58
33:k:356:LEU:H	33:k:356:LEU:HD12	1.67	0.58
42:p:86:THR:O	42:p:90:THR:OG1	2.20	0.58
50:x:155:GLU:CD	50:x:156:ALA:H	2.11	0.58
63:AK:17:THR:HG22	63:AK:18:LEU:H	1.69	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:550:A:H2'	35:AR:551:A:C8	2.38	0.58
35:AR:792:G:H2'	35:AR:793:C:C6	2.38	0.58
35:AR:1863:G:O6	80:AR:3496:OHX:N5	2.36	0.58
38:CF:26:PHE:HA	38:CF:127:ALA:HA	1.85	0.58
39:CG:232:ASP:O	39:CG:235:SER:OG	2.22	0.58
41:CI:95:ILE:HG22	41:CI:100:ARG:HB2	1.83	0.58
47:CO:109:ARG:HD3	49:CQ:199:TYR:CZ	2.38	0.58
55:CW:33:TYR:HA	55:CW:83:TYR:CE2	2.38	0.58
61:DJ:94:LYS:O	61:DJ:98:SER:OG	2.17	0.58
72:a:89:ILE:HB	72:a:101:TYR:HB3	1.85	0.58
74:c:19:HIS:CE1	74:c:21:LEU:HB2	2.38	0.58
1:sR:953:G:O4'	14:c3:114:ARG:NH2	2.33	0.58
1:sR:1146:G:H2'	1:sR:1147:A:C8	2.38	0.58
12:c0:27:PHE:H	12:c0:27:PHE:HD1	1.49	0.58
21:d0:30:LYS:HE2	21:d0:33:GLN:CD	2.29	0.58
1:A:584:C:OP2	80:A:2116:OHX:N1	2.37	0.58
1:A:680:U:H2'	1:A:681:U:O4'	2.04	0.58
1:A:1238:A:OP2	80:A:2123:OHX:N3	2.36	0.58
3:C:108:ASP:OD1	3:C:109:LYS:N	2.33	0.58
6:F:36:HIS:CG	6:F:85:GLY:HA3	2.39	0.58
7:G:169:ASN:O	7:G:172:ILE:HG13	2.03	0.58
10:J:188:GLU:HG3	13:M:13:PHE:CD2	2.39	0.58
11:K:126:ARG:HD2	77:f:33:ARG:HD3	1.86	0.58
11:K:155:HIS:C	11:K:156:ILE:HD12	2.29	0.58
14:O:47:PRO:HG3	14:O:72:MET:HE2	1.86	0.58
16:Q:68:PRO:O	16:Q:71:GLU:OE1	2.21	0.58
19:T:11:PHE:CD1	19:T:59:GLY:HA3	2.38	0.58
21:V:24:ILE:HD12	21:V:24:ILE:O	2.04	0.58
26:DB:46:ILE:HD11	26:DB:48:ARG:C	2.29	0.58
35:1:307:A:H2'	35:1:308:A:C8	2.38	0.58
35:1:2319:U:O4	80:1:3537:OHX:N2	2.36	0.58
35:1:2426:U:O4	80:1:3402:OHX:N2	2.35	0.58
33:k:37:ARG:HA	33:k:185:GLY:O	2.04	0.58
38:l:205:PRO:HG2	38:l:225:VAL:HG22	1.86	0.58
41:o:73:GLY:O	54:2:143:THR:OG1	2.21	0.58
52:z:106:LEU:HD13	52:z:138:LEU:HD21	1.86	0.58
67:AO:6:ARG:O	67:AO:10:THR:HG23	2.03	0.58
69:AQ:78:THR:O	69:AQ:82:THR:HG22	2.03	0.58
35:AR:1083:G:H2'	35:AR:1084:A:C8	2.39	0.58
35:AR:1214:U:H2'	35:AR:1215:U:C6	2.38	0.58
35:AR:1618:G:H4'	37:AT:129:C:H1'	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CF:327:LEU:HA	41:CI:166:ASN:HD21	1.69	0.58
39:CG:177:GLU:OE1	39:CG:177:GLU:N	2.31	0.58
55:CW:70:LYS:HD3	55:CW:71:PHE:H	1.68	0.58
1:sR:958:U:OP2	74:d7:20:LYS:NZ	2.34	0.58
1:sR:1340:U:H5	17:c6:8:GLN:O	1.86	0.58
79:Rb:96:THR:HG23	79:Rb:98:GLU:H	1.69	0.58
2:s0:72:ASP:HB2	2:s0:118:PRO:HA	1.85	0.58
5:s3:12:VAL:HG12	21:d0:84:MET:SD	2.44	0.58
6:s4:179:LYS:HE3	6:s4:230:GLU:OE1	2.04	0.58
9:s7:45:SER:HB3	9:s7:47:ARG:NH1	2.18	0.58
10:s8:35:ASN:O	10:s8:37:LYS:HG2	2.04	0.58
15:c4:86:THR:OG1	15:c4:91:THR:HG22	2.04	0.58
17:c6:131:GLY:HA3	17:c6:136:SER:O	2.03	0.58
18:c7:71:PHE:HD1	18:c7:73:LEU:H	1.51	0.58
20:c9:132:LEU:HA	20:c9:135:ILE:HG22	1.84	0.58
1:A:218:A:N6	1:A:844:A:H1'	2.19	0.58
1:A:243:G:H21	6:F:130:GLN:NE2	2.00	0.58
1:A:1031:U:H4'	1:A:1032:G:OP2	2.01	0.58
11:K:37:LYS:HA	77:f:33:ARG:HA	1.86	0.58
14:O:41:ALA:HB2	14:O:75:LEU:HD22	1.86	0.58
26:DB:104:PRO:HB3	26:DB:107:ARG:HD3	1.85	0.58
31:CD:3:ARG:HG3	31:CD:4:VAL:N	2.18	0.58
35:1:1083:G:H2'	35:1:1084:A:C8	2.39	0.58
35:1:1211:U:H2'	35:1:1212:A:C8	2.38	0.58
35:1:1856:C:OP2	80:1:3622:OHX:N5	2.37	0.58
35:1:2415:C:OP1	31:j:2:GLY:N	2.37	0.58
35:1:2537:U:H1'	35:1:2538:U:O5'	2.04	0.58
35:1:3051:U:H2'	35:1:3052:G:C8	2.38	0.58
35:1:3377:G:O6	80:1:4177:OHX:N3	2.37	0.58
33:k:293:ASN:HB3	33:k:305:ILE:HD11	1.86	0.58
38:l:143:GLU:O	80:l:403:OHX:N2	2.36	0.58
44:r:140:THR:OG1	44:r:141:LYS:N	2.36	0.58
48:v:149:ASN:OD1	80:v:301:OHX:N2	2.37	0.58
55:5:20:SER:O	55:5:24:GLU:HG3	2.02	0.58
60:AH:8:ARG:H	60:AH:34:HIS:HE1	1.49	0.58
69:AQ:46:THR:OG1	69:AQ:57:CYS:SG	2.55	0.58
35:AR:650:C:H2'	35:AR:651:G:C8	2.38	0.58
35:AR:3295:A:H2'	35:AR:3296:A:H8	1.69	0.58
38:CF:65:TRP:HB3	38:CF:69:ARG:HD3	1.85	0.58
56:CX:120:LYS:HB3	56:CX:137:VAL:CG2	2.32	0.58
79:h:37:SER:O	79:h:68:VAL:HG22	2.03	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1063:U:H2'	1:sR:1064:G:C8	2.36	0.58
79:Rb:77:GLY:O	79:Rb:94:VAL:HG21	2.03	0.58
3:s1:107:THR:N	15:c4:116:GLU:OE2	2.37	0.58
4:s2:65:GLU:HB2	4:s2:68:ILE:HD11	1.84	0.58
5:s3:76:ARG:HB2	12:c0:22:VAL:HG21	1.84	0.58
17:c6:39:VAL:HG22	17:c6:45:ARG:HD3	1.85	0.58
17:c6:83:GLN:HB2	17:c6:116:LEU:O	2.03	0.58
21:d0:57:ARG:HA	21:d0:89:ARG:HG3	1.84	0.58
74:d7:36:LYS:HE2	74:d7:41:LEU:HA	1.86	0.58
1:A:741:C:O2	9:I:107:ARG:NH2	2.34	0.58
13:M:109:VAL:HG12	13:M:137:PHE:HB2	1.85	0.58
15:P:16:VAL:HG13	15:P:33:LEU:HA	1.86	0.58
19:T:8:GLN:H	19:T:8:GLN:CD	2.12	0.58
19:T:82:PRO:HG2	19:T:85:PHE:HB2	1.86	0.58
20:U:33:TYR:O	20:U:33:TYR:CD1	2.56	0.58
24:Y:68:ILE:O	24:Y:70:LYS:NZ	2.32	0.58
30:AD:58:TYR:CE2	60:AH:97:GLU:HG2	2.37	0.58
33:CE:56:ILE:HD11	33:CE:356:LEU:HD13	1.85	0.58
35:1:2836:C:H5	35:1:2852:C:H42	1.50	0.58
36:3:39:C:H5'	70:i:25:ILE:HG13	1.85	0.58
38:l:82:THR:HG23	38:l:84:ARG:H	1.68	0.58
39:m:50:ARG:NH2	39:m:147:ASP:OD2	2.33	0.58
27:9:3:LYS:HG3	27:9:8:VAL:HG13	1.86	0.58
35:AR:272:G:OP2	80:AR:3577:OHX:N3	2.37	0.58
35:AR:591:G:N2	35:AR:612:U:OP1	2.33	0.58
35:AR:1571:A:H2'	35:AR:1572:U:O4'	2.04	0.58
35:AR:1577:G:H2'	35:AR:1578:C:C6	2.39	0.58
35:AR:1597:C:H2'	35:AR:1598:G:C8	2.38	0.58
36:AS:68:C:OP1	39:CG:14:SER:OG	2.21	0.58
43:CK:112:ILE:HB	43:CK:126:VAL:HG22	1.85	0.58
47:CO:14:LEU:H	47:CO:19:ARG:NH2	2.02	0.58
53:CU:6:GLU:OE2	53:CU:99:ARG:NH2	2.37	0.58
58:CZ:73:MET:HE1	58:CZ:141:TYR:HE1	1.69	0.58
65:DN:23:LEU:HD22	65:DN:24:PRO:HD2	1.84	0.58
71:p0:51:VAL:HG23	71:p0:87:VAL:HG22	1.86	0.58
74:c:73:LEU:HD23	74:c:73:LEU:H	1.68	0.58
1:sR:885:G:H2'	1:sR:886:U:C6	2.38	0.58
11:s9:93:LEU:HA	11:s9:96:VAL:HG22	1.85	0.58
13:c1:16:GLN:HB2	13:c1:19:ILE:HG12	1.84	0.58
25:d4:35:VAL:HB	25:d4:40:LEU:HD11	1.86	0.58
25:d4:86:GLU:OE2	25:d4:90:ARG:NH1	2.36	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:472:U:H2'	1:A:473:A:C8	2.39	0.58
1:A:1199:G:C5	76:e:40:ARG:HD3	2.38	0.58
1:A:1327:C:C2	1:A:1328:G:C8	2.92	0.58
1:A:1649:G:H2'	1:A:1650:U:H6	1.69	0.58
2:B:68:PRO:HB2	4:D:244:SER:OG	2.04	0.58
2:B:201:LEU:HD21	18:S:83:GLN:HG3	1.85	0.58
3:C:125:VAL:HG22	3:C:137:ILE:HD11	1.85	0.58
5:E:23:GLU:OE1	12:L:61:TRP:NE1	2.33	0.58
14:O:36:GLN:OE1	14:O:36:GLN:N	2.24	0.58
14:O:48:SER:O	14:O:52:VAL:HG12	2.03	0.58
27:DA:55:GLU:HB2	27:DA:108:LYS:HB3	1.85	0.58
28:DC:69:TRP:HB3	46:CN:64:LYS:HB2	1.86	0.58
35:1:70:A:N1	35:1:313:A:O2'	2.36	0.58
35:1:1675:G:H2'	35:1:1676:A:C8	2.39	0.58
35:1:2960:C:H2'	35:1:2961:G:C8	2.38	0.58
36:3:94:C:H2'	36:3:95:A:C8	2.39	0.58
41:o:138:TYR:CE2	41:o:233:GLU:HG2	2.38	0.58
42:p:82:LEU:HD22	42:p:87:ALA:HB2	1.86	0.58
42:p:157:VAL:O	42:p:160:ILE:HG13	2.03	0.58
50:x:111:LYS:HA	50:x:153:LYS:HE2	1.85	0.58
52:z:100:ARG:O	52:z:104:ARG:HD3	2.03	0.58
60:AH:97:GLU:O	60:AH:100:ILE:HG22	2.03	0.58
35:AR:321:C:H5"	48:CP:150:TRP:CZ3	2.39	0.58
35:AR:1034:U:H2'	35:AR:1035:G:C8	2.38	0.58
35:AR:2103:U:H2'	35:AR:2104:A:C8	2.39	0.58
35:AR:2234:G:N7	80:AR:3463:OHX:N1	2.51	0.58
35:AR:2569:A:O2'	35:AR:2570:U:O5'	2.20	0.58
38:CF:99:MET:HE2	38:CF:102:PRO:HA	1.85	0.58
68:DQ:45:ARG:HG2	68:DQ:45:ARG:NH1	2.19	0.58
78:g:100:LEU:O	78:g:101:ALA:C	2.47	0.58
79:h:84:SER:O	79:h:110:VAL:HG22	2.03	0.58
1:sR:52:U:H2'	1:sR:53:G:C8	2.39	0.58
1:sR:1062:A:H5"	1:sR:1063:U:C5	2.39	0.58
5:s3:133:GLY:HA2	5:s3:155:GLY:HA3	1.86	0.58
14:c3:54:LEU:HB3	14:c3:60:VAL:CG1	2.34	0.58
3:C:142:PHE:O	3:C:207:LEU:HA	2.04	0.58
4:D:41:LEU:HA	4:D:44:LEU:HD23	1.86	0.58
6:F:17:HIS:HB2	6:F:108:ARG:HA	1.86	0.58
6:F:193:GLY:O	6:F:211:LYS:N	2.36	0.58
7:G:41:LYS:H	7:G:41:LYS:HD2	1.68	0.58
8:H:175:ILE:CD1	8:H:178:LEU:HB2	2.34	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:P:16:VAL:C	15:P:79:VAL:HG21	2.28	0.58
27:DA:25:SER:HB3	37:AT:91:C:O2'	2.03	0.58
28:AB:47:LYS:O	28:AB:48:TYR:CG	2.57	0.58
28:AB:51:GLY:HA2	51:y:175:ALA:O	2.04	0.58
35:1:692:A:OP1	48:v:201:ARG:NH2	2.37	0.58
35:1:1160:C:OP1	51:y:2:GLY:N	2.36	0.58
38:l:188:ARG:O	38:l:193:LYS:HE2	2.04	0.58
60:AH:86:LYS:O	60:AH:90:ILE:HG13	2.04	0.58
35:AR:2512:C:OP1	80:AR:3466:OHX:N6	2.37	0.58
80:AR:3501:OHX:N6	36:AS:86:U:O2	2.36	0.58
64:DM:8:ILE:H	64:DM:8:ILE:HD12	1.69	0.58
79:h:169:ILE:HG12	79:h:183:LEU:CD1	2.33	0.58
1:sR:848:C:H2'	1:sR:849:C:C6	2.39	0.58
1:sR:1222:C:N4	1:sR:1261:G:H1	1.99	0.58
1:sR:1354:G:H5'	1:sR:1355:C:OP2	2.04	0.58
1:sR:1645:G:H1	1:sR:1756:A:N6	2.01	0.58
18:c7:24:LEU:HD12	18:c7:58:MET:HE2	1.84	0.58
23:d2:90:THR:HG22	23:d2:102:VAL:HG21	1.86	0.58
1:A:58:U:O2'	1:A:451:A:N3	2.34	0.57
1:A:237:C:H5"	1:A:238:U:H5'	1.86	0.57
1:A:922:G:H2'	1:A:923:A:C8	2.39	0.57
1:A:1419:G:H4'	76:e:54:LYS:HE3	1.86	0.57
1:A:1600:A:O2'	1:A:1602:C:N4	2.36	0.57
3:C:167:VAL:O	3:C:171:ILE:HG12	2.04	0.57
8:H:20:ASP:OD1	8:H:23:ARG:N	2.37	0.57
8:H:102:VAL:HG13	8:H:106:LEU:HD12	1.85	0.57
10:J:142:LYS:O	10:J:146:ARG:HD3	2.03	0.57
14:O:130:ARG:NH1	14:O:139:TRP:O	2.37	0.57
19:T:76:PRO:HB2	19:T:81:ILE:HG21	1.85	0.57
21:V:57:ARG:HA	21:V:89:ARG:NE	2.19	0.57
31:CD:40:TYR:HA	31:CD:90:ALA:O	2.04	0.57
33:CE:56:ILE:HD11	33:CE:359:ILE:HG12	1.86	0.57
35:1:1095:U:C2	54:2:129:LYS:HB2	2.39	0.57
35:1:1352:A:H1'	35:1:1353:U:C6	2.38	0.57
31:j:207:VAL:HG13	31:j:208:ASP:OD1	2.04	0.57
40:n:136:GLU:O	40:n:140:VAL:HG23	2.04	0.57
41:o:233:GLU:OE1	53:0:35:VAL:HG12	2.04	0.57
35:AR:1213:G:OP1	53:CU:139:TYR:OH	2.22	0.57
35:AR:1405:U:OP2	34:DG:59:SER:OG	2.22	0.57
35:AR:2508:U:H2'	35:AR:2509:U:C6	2.39	0.57
35:AR:2904:U:H2'	35:AR:2905:U:H6	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CI:137:GLY:HA2	41:CI:233:GLU:HA	1.86	0.57
44:CL:93:PRO:O	44:CL:125:LEU:HD23	2.04	0.57
44:CL:200:LEU:HD12	44:CL:213:PHE:HE1	1.69	0.57
45:CM:172:LEU:HD13	45:CM:172:LEU:O	2.04	0.57
1:sR:129:U:O2	80:sR:1915:OHX:N5	2.38	0.57
1:sR:195:G:H2'	1:sR:196:G:H5"	1.87	0.57
1:sR:696:C:H4'	1:sR:697:C:C6	2.39	0.57
1:sR:1537:C:O2'	1:sR:1540:G:O6	2.22	0.57
1:sR:1608:U:O3'	17:c6:73:GLY:HA3	2.04	0.57
2:s0:48:ILE:HD12	2:s0:49:ASN:H	1.69	0.57
2:s0:164:ASN:HA	2:s0:170:ILE:HG12	1.86	0.57
4:s2:87:GLN:HA	4:s2:95:ARG:O	2.04	0.57
5:s3:137:VAL:HG22	5:s3:151:LYS:HB2	1.86	0.57
23:d2:97:ARG:HH11	23:d2:97:ARG:HG2	1.69	0.57
75:d8:56:LEU:HD22	75:d8:57:MET:H	1.69	0.57
1:A:810:G:C4	9:I:111:LYS:HE2	2.39	0.57
1:A:890:C:H2'	1:A:891:A:H8	1.69	0.57
1:A:1087:A:H2'	1:A:1088:A:C8	2.39	0.57
1:A:1097:U:H1'	4:D:168:ARG:NE	2.19	0.57
1:A:1234:A:C1'	78:g:145:HIS:HB2	2.34	0.57
1:A:1684:U:H2'	1:A:1685:G:H8	1.69	0.57
6:F:159:THR:OG1	6:F:227:VAL:O	2.16	0.57
7:G:115:LYS:O	7:G:115:LYS:HD2	2.05	0.57
7:G:146:THR:HG21	7:G:220:VAL:HG23	1.86	0.57
10:J:106:ALA:HB2	10:J:165:LEU:HG	1.85	0.57
13:M:109:VAL:HG21	13:M:125:VAL:HG11	1.85	0.57
15:P:85:ALA:H	15:P:119:THR:CG2	2.17	0.57
27:DA:56:VAL:HG11	27:DA:104:LEU:HD13	1.85	0.57
28:AB:51:GLY:HA2	51:y:175:ALA:C	2.28	0.57
35:1:351:A:N6	65:AM:35:ILE:HG23	2.19	0.57
35:1:829:U:H3	35:1:895:A:H62	1.52	0.57
35:1:1472:U:H5'	52:z:4:LEU:HB2	1.86	0.57
35:1:1577:G:H2'	35:1:1578:C:C6	2.39	0.57
35:1:2710:C:H2'	35:1:2711:C:C6	2.39	0.57
35:AR:417:A:H2'	35:AR:418:A:C8	2.39	0.57
35:AR:1733:G:OP2	80:AR:3470:OHX:N6	2.37	0.57
35:AR:2424:A:OP1	48:CP:90:ASN:ND2	2.37	0.57
36:AS:3:U:H2'	36:AS:4:U:C6	2.39	0.57
40:CH:52:VAL:CG1	40:CH:65:ILE:HB	2.34	0.57
41:CI:30:ARG:O	41:CI:34:LYS:HG3	2.04	0.57
43:CK:93:VAL:O	43:CK:177:ASP:HA	2.03	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:sM:83:LYS:HD3	70:sM:84:LYS:N	2.18	0.57
79:h:19:TRP:HB2	79:h:38:ARG:CG	2.33	0.57
1:sR:492:A:H1'	1:sR:496:G:H1	1.69	0.57
1:sR:1214:U:O2'	76:d9:7:TRP:NE1	2.36	0.57
1:sR:1471:A:C8	1:sR:1540:G:H1'	2.39	0.57
79:Rb:25:THR:HA	79:Rb:73:LEU:HD23	1.85	0.57
79:Rb:213:SER:HB2	79:Rb:221:MET:O	2.03	0.57
2:s0:50:VAL:HA	2:s0:53:THR:HG22	1.85	0.57
3:s1:24:PHE:HA	3:s1:27:LYS:HG2	1.86	0.57
3:s1:135:LEU:HD13	3:s1:215:VAL:HG23	1.84	0.57
4:s2:225:LEU:HD13	23:d2:68:ARG:HA	1.85	0.57
5:s3:70:THR:O	5:s3:73:VAL:HG12	2.04	0.57
7:s5:112:ARG:NH2	17:c6:42:GLU:HG2	2.19	0.57
9:s7:112:ARG:O	9:s7:112:ARG:HG3	2.04	0.57
11:s9:87:SER:HB3	11:s9:90:LYS:HG2	1.85	0.57
17:c6:100:GLN:O	17:c6:104:GLU:HG3	2.03	0.57
19:c8:28:ILE:HG12	19:c8:61:LEU:HD22	1.85	0.57
19:c8:65:GLU:O	19:c8:69:ILE:HG23	2.04	0.57
1:A:349:U:O4	80:A:2141:OHX:N5	2.37	0.57
1:A:1622:G:H2'	1:A:1623:C:C6	2.39	0.57
2:B:71:GLU:HA	2:B:94:GLY:O	2.05	0.57
3:C:135:LEU:HG	3:C:217:LEU:HD22	1.86	0.57
4:D:169:LEU:CD1	4:D:217:ALA:HB1	2.33	0.57
6:F:92:LEU:HD12	6:F:99:PHE:HE1	1.69	0.57
10:J:11:ARG:HB2	10:J:16:ALA:O	2.04	0.57
12:L:7:ASP:HA	12:L:10:LYS:HD3	1.85	0.57
16:Q:97:TYR:HD1	16:Q:99:GLY:H	1.51	0.57
17:R:32:ASN:HA	17:R:68:ARG:HD3	1.85	0.57
18:S:71:PHE:CD1	18:S:73:LEU:HB3	2.39	0.57
35:1:113:C:OP1	48:v:147:ARG:NE	2.35	0.57
35:1:626:U:O4	80:1:3501:OHX:N3	2.37	0.57
35:1:2311:G:OP2	80:1:3477:OHX:N5	2.36	0.57
35:1:2539:C:H5'	35:1:2541:U:O4	2.04	0.57
47:u:135:LEU:HD11	49:w:178:VAL:HG12	1.85	0.57
27:9:83:ASP:O	27:9:84:LYS:HB2	2.04	0.57
35:AR:2537:U:H4'	3:s1:229:MET:HB2	1.86	0.57
35:AR:2683:U:H2'	35:AR:2684:C:C6	2.40	0.57
38:CF:203:ARG:NH1	38:CF:226:GLU:OE2	2.38	0.57
52:CT:74:ARG:HD2	52:CT:74:ARG:N	2.19	0.57
32:DF:80:ASN:HB2	32:DF:88:PRO:O	2.03	0.57
62:DK:93:ILE:O	62:DK:97:SER:HB3	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:315:A:O2'	80:sR:2011:OHX:N4	2.37	0.57
1:sR:687:G:H5"	23:d2:119:LYS:HG2	1.85	0.57
1:sR:895:G:H2'	1:sR:896:U:C6	2.39	0.57
1:sR:1429:G:H2'	1:sR:1430:U:C6	2.39	0.57
78:e1:108:VAL:HG22	78:e1:109:ASP:O	2.04	0.57
1:A:1147:A:H2'	1:A:1148:C:C6	2.40	0.57
1:A:1585:U:N3	1:A:1611:A:H2	1.98	0.57
2:B:173:ILE:HD12	2:B:173:ILE:H	1.69	0.57
3:C:175:GLU:N	3:C:177:GLN:HE22	2.03	0.57
17:R:101:SER:O	17:R:105:LEU:HD12	2.04	0.57
18:S:111:LYS:N	18:S:111:LYS:HE2	2.19	0.57
35:1:3322:A:H2'	35:1:3323:A:C8	2.39	0.57
68:AP:93:LEU:H	68:AP:93:LEU:HD23	1.69	0.57
35:AR:230:U:H2'	35:AR:231:G:O4'	2.04	0.57
35:AR:385:A:H2'	35:AR:386:A:C8	2.39	0.57
35:AR:501:A:H2'	35:AR:502:U:C6	2.39	0.57
35:AR:678:G:O6	80:AR:3517:OHX:N2	2.36	0.57
35:AR:1174:G:H1'	35:AR:1181:U:N3	2.19	0.57
38:CF:169:LEU:HA	38:CF:172:VAL:HG22	1.87	0.57
39:CG:58:LYS:N	39:CG:58:LYS:CD	2.65	0.57
47:CO:47:ASP:OD2	47:CO:55:ARG:HB2	2.05	0.57
50:CR:88:VAL:O	50:CR:92:GLN:HG2	2.04	0.57
52:CT:102:LEU:HD22	52:CT:138:LEU:HD13	1.86	0.57
52:CT:151:ARG:O	52:CT:151:ARG:HD3	2.05	0.57
60:DI:99:LYS:O	60:DI:103:LYS:HB3	2.03	0.57
71:p0:93:LEU:HD12	71:p0:94:THR:N	2.20	0.57
1:sR:228:G:H1	1:sR:236:A:H61	1.53	0.57
1:sR:331:A:H5'	10:s8:33:PRO:HA	1.84	0.57
1:sR:821:U:H2'	1:sR:822:U:O4'	2.04	0.57
79:Rb:85:TRP:HD1	79:Rb:109:ASP:HB3	1.69	0.57
2:s0:157:ASP:HB3	22:d1:69:LEU:HD12	1.85	0.57
5:s3:15:GLY:C	76:d9:50:ILE:HG23	2.29	0.57
11:s9:32:GLY:HA3	77:e0:40:TYR:CG	2.40	0.57
16:c5:130:ARG:HB3	16:c5:133:ALA:CB	2.35	0.57
25:d4:81:GLU:O	25:d4:85:PHE:HB2	2.05	0.57
75:d8:62:GLU:OE2	75:d8:64:ARG:NH2	2.30	0.57
1:A:25:C:O2	80:A:2136:OHX:N6	2.37	0.57
1:A:978:A:H2'	1:A:979:A:O4'	2.04	0.57
1:A:1076:A:OP1	73:b:13:LYS:NZ	2.36	0.57
1:A:1331:A:P	18:S:45:ARG:HH22	2.27	0.57
3:C:97:LEU:HD11	3:C:232:HIS:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:201:THR:HB	3:C:207:LEU:HD22	1.86	0.57
4:D:55:GLU:O	4:D:59:HIS:ND1	2.37	0.57
6:F:180:LEU:O	6:F:228:ILE:N	2.24	0.57
9:I:118:LEU:O	9:I:121:VAL:HG22	2.04	0.57
11:K:48:GLN:O	11:K:52:ILE:HG13	2.04	0.57
31:CD:56:ALA:HB2	31:CD:130:SER:H	1.69	0.57
35:1:585:A:H2'	35:1:586:C:C6	2.39	0.57
35:1:2808:A:O2'	35:1:2969:A:OP1	2.17	0.57
42:p:240:ASN:HA	42:p:243:GLN:HB3	1.85	0.57
69:AQ:8:VAL:O	69:AQ:11:THR:HG22	2.05	0.57
35:AR:138:U:H2'	35:AR:139:G:H8	1.70	0.57
35:AR:776:U:H5	35:AR:2719:U:O2	1.88	0.57
35:AR:1331:U:OP1	80:AR:3402:OHX:N1	2.37	0.57
35:AR:1949:G:H1	35:AR:2097:U:H3	1.53	0.57
35:AR:2268:U:H3'	35:AR:2269:U:C5'	2.34	0.57
35:AR:2654:C:O2'	68:DQ:98:LYS:NZ	2.37	0.57
35:AR:2676:A:H4'	35:AR:2677:G:O5'	2.04	0.57
39:CG:107:ARG:HD2	39:CG:248:ARG:HG2	1.86	0.57
60:DI:10:ARG:HD2	65:DN:4:GLN:HE21	1.70	0.57
63:DL:28:HIS:HB3	63:DL:31:LYS:HB2	1.86	0.57
72:a:53:GLU:OE1	72:a:70:LYS:NZ	2.36	0.57
79:h:22:SER:O	79:h:23:LEU:HD23	2.04	0.57
79:h:258:THR:OG1	79:h:275:ARG:NH1	2.38	0.57
1:sR:959:U:H5"	74:d7:28:PRO:HB3	1.86	0.57
1:sR:1071:U:H2'	1:sR:1072:C:C6	2.38	0.57
1:sR:1154:G:N7	80:sR:1989:OHX:N2	2.53	0.57
1:sR:1405:G:H2'	1:sR:1406:A:C8	2.39	0.57
79:Rb:275:ARG:HD3	79:Rb:275:ARG:H	1.69	0.57
3:s1:103:MET:HB3	3:s1:215:VAL:HG12	1.86	0.57
13:c1:72:THR:O	13:c1:88:ARG:HD2	2.04	0.57
21:d0:103:ILE:O	21:d0:106:ILE:HB	2.03	0.57
77:e0:59:GLY:O	77:e0:60:PRO:C	2.47	0.57
1:A:565:C:N3	80:A:2121:OHX:N5	2.52	0.57
1:A:1606:C:H2'	1:A:1607:G:C8	2.39	0.57
2:B:25:GLY:HA2	2:B:48:ILE:HD11	1.86	0.57
3:C:69:CYS:SG	3:C:70:LEU:N	2.77	0.57
6:F:78:THR:O	6:F:78:THR:OG1	2.22	0.57
6:F:181:VAL:O	6:F:192:ILE:HG23	2.03	0.57
9:I:16:LEU:HG	9:I:17:GLU:OE1	2.04	0.57
19:T:28:ILE:CD1	19:T:61:LEU:HG	2.34	0.57
19:T:47:CYS:O	19:T:52:VAL:HG12	2.05	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AA:26:VAL:HG23	26:AA:27:LYS:H	1.70	0.57
28:AB:144:VAL:CG1	46:t:159:VAL:HG23	2.33	0.57
26:DB:70:PRO:HG3	26:DB:115:LYS:HB2	1.86	0.57
28:DC:49:HIS:CD2	46:CN:9:ILE:HD11	2.39	0.57
35:1:1562:C:O2'	35:1:1563:C:O5'	2.21	0.57
31:j:95:SER:OG	31:j:97:ASN:OD1	2.21	0.57
31:j:109:GLU:OE2	31:j:138:GLY:HA2	2.05	0.57
39:m:41:LYS:NZ	54:2:32:LYS:O	2.38	0.57
42:p:30:THR:O	42:p:30:THR:OG1	2.22	0.57
43:q:3:TYR:HA	53:0:142:GLN:HE22	1.70	0.57
43:q:71:VAL:O	43:q:75:VAL:HG23	2.04	0.57
50:x:59:PRO:HG3	50:x:76:PHE:CD2	2.39	0.57
35:AR:1410:U:O2'	34:DG:95:GLU:OE2	2.20	0.57
35:AR:1765:U:O4	52:CT:46:LYS:NZ	2.36	0.57
57:CY:27:LYS:HD3	57:CY:29:PHE:CZ	2.39	0.57
1:sR:1086:A:H5'	4:s2:164:SER:HB3	1.85	0.57
79:Rb:213:SER:CB	79:Rb:221:MET:N	2.67	0.57
7:s5:24:VAL:HG23	7:s5:29:ILE:HD13	1.86	0.57
18:c7:21:TYR:CD1	18:c7:58:MET:HE1	2.39	0.57
19:c8:6:GLN:HG3	72:d5:44:GLN:HE21	1.68	0.57
1:A:228:G:N1	1:A:834:G:N3	2.53	0.57
1:A:1471:A:C2	1:A:1474:G:H1'	2.38	0.57
3:C:35:PRO:O	3:C:37:THR:HG22	2.05	0.57
3:C:180:THR:HG23	3:C:183:GLN:H	1.69	0.57
19:T:8:GLN:HG2	19:T:9:GLY:H	1.68	0.57
21:V:23:ARG:NH1	21:V:92:ASP:OD1	2.37	0.57
35:1:277:G:OP1	80:1:4108:OHX:N1	2.38	0.57
35:1:817:A:H8	63:AK:15:SER:HG	1.52	0.57
35:1:1226:G:H2'	35:1:1227:C:C6	2.40	0.57
35:1:1576:G:H3'	35:1:1577:G:H8	1.70	0.57
35:1:1618:G:H4'	37:4:129:C:H1'	1.87	0.57
35:1:2561:A:C2	42:p:32:LYS:HG3	2.40	0.57
35:1:3351:U:O2'	35:1:3352:U:OP1	2.20	0.57
39:m:47:PRO:HG2	39:m:49:TYR:CZ	2.39	0.57
43:q:47:LYS:H	47:u:7:VAL:HB	1.68	0.57
44:r:207:GLU:HG3	44:r:208:ASN:N	2.19	0.57
49:w:77:SER:HB2	49:w:104:VAL:HG12	1.85	0.57
35:AR:12:A:H2'	35:AR:13:A:C8	2.40	0.57
35:AR:415:G:OP2	80:AR:3690:OHX:N4	2.37	0.57
35:AR:528:U:H2'	35:AR:529:A:C8	2.40	0.57
38:CF:23:PRO:HD2	38:CF:26:PHE:CE1	2.40	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CF:55:LYS:O	38:CF:55:LYS:HG3	2.04	0.57
39:CG:294:ALA:HB1	44:CL:217:PHE:O	2.05	0.57
50:CR:46:LYS:O	50:CR:50:GLN:HG3	2.05	0.57
74:c:59:CYS:SG	74:c:60:SER:N	2.77	0.57
79:h:42:LEU:HD21	79:h:82:SER:HB3	1.85	0.57
1:sR:1241:G:OP1	16:c5:77:ARG:NH2	2.37	0.57
1:sR:1641:C:H2'	1:sR:1642:G:C8	2.40	0.57
1:sR:1757:G:O6	80:sR:1903:OHX:N3	2.37	0.57
3:s1:209:ASN:OD1	3:s1:211:HIS:NE2	2.37	0.57
5:s3:167:PHE:HA	5:s3:190:ARG:NH1	2.17	0.57
7:s5:103:ASN:O	7:s5:106:LYS:HG3	2.05	0.57
16:c5:67:ALA:HB2	16:c5:73:PRO:HA	1.86	0.57
1:A:647:G:N2	1:A:687:G:H22	2.02	0.57
6:F:123:LEU:HD23	6:F:159:THR:HG21	1.86	0.57
7:G:172:ILE:O	7:G:176:THR:HG23	2.04	0.57
10:J:114:GLU:HA	10:J:118:GLY:CA	2.35	0.57
10:J:190:ALA:HA	10:J:193:LEU:HG	1.87	0.57
12:L:74:GLU:HA	12:L:77:ARG:HB2	1.86	0.57
14:O:46:THR:O	14:O:50:ILE:HD12	2.05	0.57
21:V:61:LYS:HB2	21:V:86:ILE:HB	1.86	0.57
27:DA:37:LYS:HD2	27:DA:37:LYS:H	1.70	0.57
28:AB:132:LYS:HB2	46:t:167:PHE:CE2	2.40	0.57
35:1:409:A:OP2	80:1:4158:OHX:N2	2.38	0.57
35:1:2211:U:O4	80:1:4156:OHX:N1	2.38	0.57
35:1:2828:G:OP1	44:r:7:ARG:NH1	2.38	0.57
35:AR:639:G:P	34:DG:37:GLY:HA3	2.44	0.57
35:AR:3374:U:O4	80:AR:3538:OHX:N5	2.38	0.57
35:AR:3375:A:O2'	35:AR:3378:C:OP2	2.19	0.57
36:AS:8:G:O6	39:CG:21:ARG:NH1	2.38	0.57
37:AT:84:C:H5"	37:AT:85:G:C5	2.40	0.57
1:sR:837:G:H2'	1:sR:838:G:H8	1.69	0.57
1:sR:1111:G:O6	80:sR:1926:OHX:N1	2.37	0.57
4:s2:127:ALA:O	4:s2:131:ILE:HG12	2.05	0.57
5:s3:40:ARG:HE	21:d0:110:PRO:HG3	1.70	0.57
10:s8:4:SER:OG	10:s8:6:ASP:OD1	2.21	0.57
11:s9:182:GLU:N	11:s9:182:GLU:OE2	2.38	0.57
21:d0:36:ASN:O	21:d0:40:ASN:N	2.37	0.57
21:d0:38:SER:O	21:d0:42:VAL:HB	2.04	0.57
73:d6:28:LYS:NZ	73:d6:74:CYS:SG	2.73	0.57
76:d9:22:ARG:HD2	76:d9:36:LEU:O	2.03	0.57
1:A:641:G:H2'	1:A:642:G:H8	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:838:G:O2'	13:M:26:LYS:HG3	2.05	0.57
1:A:1241:G:H2'	1:A:1242:A:O4'	2.05	0.57
1:A:1559:A:H5"	19:T:135:GLY:HA3	1.85	0.57
3:C:82:ARG:HB3	3:C:103:MET:CE	2.34	0.57
4:D:106:ASP:O	4:D:107:SER:OG	2.22	0.57
5:E:164:VAL:HG12	5:E:168:ILE:HG12	1.87	0.57
10:J:56:ARG:HD3	10:J:174:GLY:O	2.04	0.57
19:T:67:GLU:O	19:T:70:VAL:HG22	2.05	0.57
25:Z:29:HIS:CD2	25:Z:67:GLY:HA2	2.39	0.57
33:CE:343:TYR:CE2	33:CE:345:ASN:HB2	2.39	0.57
35:1:1503:A:H2'	35:1:1504:A:H8	1.70	0.57
36:3:68:C:OP1	39:m:14:SER:OG	2.23	0.57
39:m:22:ARG:HB3	39:m:28:THR:OG1	2.05	0.57
43:q:89:LYS:HG2	43:q:145:VAL:HG22	1.86	0.57
45:s:49:LYS:HE2	70:i:26:VAL:HG21	1.87	0.57
45:s:62:ASN:O	68:AP:103:ALA:HB2	2.04	0.57
48:v:23:GLN:O	48:v:27:VAL:HG12	2.04	0.57
49:w:110:PRO:HA	49:w:113:ASP:OD1	2.04	0.57
62:AJ:64:SER:OG	62:AJ:68:ARG:HD2	2.05	0.57
66:AN:97:ARG:HB2	66:AN:120:GLN:O	2.05	0.57
67:AO:13:LEU:HD11	67:AO:17:ARG:CZ	2.34	0.57
35:AR:27:C:O2'	35:AR:327:A:N3	2.30	0.57
35:AR:659:G:H2'	35:AR:1432:C:H42	1.70	0.57
35:AR:745:C:H2'	35:AR:746:A:H8	1.69	0.57
35:AR:1043:C:OP2	80:AR:3528:OHX:N1	2.38	0.57
35:AR:1317:A:O2'	35:AR:1318:A:H3'	2.05	0.57
35:AR:2201:G:H2'	35:AR:2202:C:H6	1.70	0.57
35:AR:2219:A:H2'	35:AR:2220:A:C8	2.40	0.57
35:AR:2828:G:OP1	44:CL:7:ARG:NH1	2.37	0.57
35:AR:3094:A:H2'	35:AR:3095:U:C6	2.40	0.57
35:AR:3157:U:H4'	35:AR:3158:G:C5'	2.35	0.57
80:AR:3408:OHX:N6	63:DL:44:THR:O	2.38	0.57
38:CF:84:ARG:O	38:CF:87:GLN:HG3	2.05	0.57
38:CF:187:LEU:HD12	38:CF:198:ARG:O	2.05	0.57
10:s8:81:VAL:HG23	10:s8:101:ILE:O	2.04	0.57
19:c8:44:ASN:O	19:c8:48:LYS:HG3	2.03	0.57
22:d1:20:THR:OG1	22:d1:22:ARG:HB2	2.05	0.57
76:d9:31:ILE:HG22	76:d9:38:ILE:O	2.05	0.57
1:A:1158:C:O2'	1:A:1581:C:OP2	2.23	0.57
1:A:1202:A:H1'	1:A:1207:C:N4	2.19	0.57
2:B:17:LEU:HB3	2:B:22:THR:CG2	2.35	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:35:PRO:C	3:C:37:THR:HG22	2.30	0.57
3:C:128:LYS:O	3:C:177:GLN:HB3	2.05	0.57
4:D:53:ILE:HD12	4:D:54:GLU:OE1	2.05	0.57
5:E:55:THR:HA	5:E:58:VAL:HG12	1.86	0.57
6:F:181:VAL:HG13	6:F:195:ILE:HD11	1.87	0.57
17:R:10:PHE:HA	17:R:18:ALA:O	2.05	0.57
21:V:21:LYS:HE2	21:V:120:SER:OG	2.05	0.57
26:DB:121:ARG:HG3	26:DB:126:LYS:HB2	1.87	0.57
33:CE:25:ILE:HD13	35:AR:3312:U:H4'	1.87	0.57
33:CE:308:MET:CE	35:AR:3329:U:H5"	2.35	0.57
35:1:1085:A:OP2	54:2:35:LYS:NZ	2.38	0.57
35:1:1824:U:O2'	64:AL:17:ARG:HD3	2.04	0.57
35:1:2094:C:H2'	35:1:2095:G:C8	2.40	0.57
35:1:2615:G:H2'	35:1:2616:C:C6	2.40	0.57
35:1:2616:C:H3'	35:1:2617:U:O2	2.05	0.57
35:1:3060:C:H2'	35:1:3061:G:C8	2.40	0.57
38:l:135:VAL:O	38:l:140:HIS:HB2	2.05	0.57
42:p:181:LYS:O	42:p:185:ARG:HD3	2.04	0.57
46:t:157:ARG:HG2	46:t:158:ALA:H	1.69	0.57
35:AR:585:A:H2'	35:AR:586:C:C6	2.40	0.57
35:AR:1334:U:H2'	35:AR:1335:C:C6	2.40	0.57
35:AR:1355:A:H4'	35:AR:1356:U:O5'	2.05	0.57
35:AR:1806:A:H5'	60:DI:76:TYR:CD1	2.40	0.57
39:CG:289:LYS:HB3	44:CL:206:LEU:HD23	1.87	0.57
62:DK:9:ILE:HG13	62:DK:10:GLY:H	1.68	0.57
77:f:13:LYS:O	77:f:17:GLN:HG2	2.05	0.57
78:g:148:TYR:CD1	78:g:148:TYR:N	2.73	0.57
1:sR:125:U:H5"	6:s4:148:ARG:HH11	1.68	0.57
79:Rb:62:LYS:HD2	79:Rb:63:GLY:H	1.70	0.57
79:Rb:182:ASN:HD21	79:Rb:184:ASN:HD21	1.53	0.57
3:s1:109:LYS:O	3:s1:112:SER:OG	2.19	0.57
3:s1:144:ARG:HA	3:s1:208:GLN:OE1	2.04	0.57
24:d3:90:ASP:OD1	77:e0:12:GLY:HA2	2.05	0.57
1:A:66:U:H1'	8:H:160:ARG:NH2	2.19	0.56
1:A:475:A:OP2	11:K:126:ARG:NH1	2.38	0.56
1:A:922:G:H2'	1:A:923:A:H8	1.70	0.56
1:A:1488:G:H3'	1:A:1515:A:H61	1.69	0.56
1:A:1546:G:OP1	19:T:123:ARG:NH1	2.38	0.56
7:G:58:LEU:O	7:G:62:VAL:HG23	2.05	0.56
8:H:148:SER:HB2	8:H:151:ASP:OD1	2.05	0.56
18:S:75:GLU:O	18:S:78:ARG:NH1	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DB:95:VAL:HG11	26:DB:113:VAL:CG2	2.32	0.56
28:DC:138:ILE:HD11	28:DC:145:VAL:CG1	2.35	0.56
33:CE:76:VAL:HG12	33:CE:325:LYS:HA	1.86	0.56
35:1:2310:U:OP1	80:1:3477:OHX:N1	2.37	0.56
35:1:3375:A:O2'	35:1:3378:C:H5'	2.04	0.56
31:j:108:PRO:O	31:j:111:THR:OG1	2.21	0.56
33:k:161:LEU:HD22	33:k:178:LEU:HD11	1.87	0.56
33:k:168:LYS:HB3	33:k:319:ASN:HD21	1.69	0.56
38:l:353:ALA:HA	38:l:356:THR:HG22	1.87	0.56
41:o:136:TYR:CZ	41:o:231:ASN:HB2	2.41	0.56
42:p:74:THR:HG23	62:AJ:47:ILE:HG22	1.87	0.56
45:s:63:GLU:HG2	45:s:65:ILE:HG22	1.86	0.56
48:v:190:THR:O	48:v:194:GLN:HG3	2.05	0.56
49:w:58:LEU:HA	49:w:72:HIS:CD2	2.40	0.56
35:AR:3131:U:H2'	35:AR:3132:C:C6	2.40	0.56
37:AT:10:A:H2'	37:AT:11:C:C6	2.40	0.56
37:AT:83:C:H1'	37:AT:85:G:H21	1.69	0.56
39:CG:211:LEU:HG	39:CG:219:PHE:HB2	1.87	0.56
46:CN:47:ALA:HB3	46:CN:49:ARG:HB2	1.87	0.56
58:CZ:115:ARG:HD3	58:CZ:119:THR:OG1	2.05	0.56
64:DM:38:PHE:CE2	64:DM:57:ASN:HB3	2.39	0.56
1:sR:356:G:OP2	80:sR:1923:OHX:N3	2.38	0.56
1:sR:566:C:OP2	24:d3:66:SER:OG	2.23	0.56
1:sR:715:U:H2'	1:sR:716:C:C6	2.40	0.56
1:sR:1539:G:H5'	1:sR:1539:G:H8	1.69	0.56
79:Rb:146:GLY:HA3	79:Rb:181:TRP:HH2	1.69	0.56
3:s1:22:ASP:O	3:s1:25:THR:OG1	2.19	0.56
3:s1:171:ILE:HG21	3:s1:197:ILE:HG22	1.86	0.56
1:A:289:U:H2'	1:A:290:G:O4'	2.04	0.56
1:A:719:U:OP1	1:A:720:G:N1	2.38	0.56
1:A:920:U:H2'	1:A:921:U:O4'	2.04	0.56
1:A:1241:G:O4'	16:Q:79:HIS:ND1	2.38	0.56
2:B:55:GLU:O	2:B:58:VAL:HG22	2.05	0.56
3:C:32:ILE:CG2	3:C:33:LYS:N	2.68	0.56
3:C:135:LEU:HA	3:C:217:LEU:HD11	1.87	0.56
6:F:118:GLU:HA	6:F:121:TYR:HE1	1.70	0.56
8:H:137:ARG:NE	8:H:177:ARG:HE	2.02	0.56
17:R:93:HIS:HA	17:R:97:VAL:HB	1.87	0.56
18:S:57:LEU:O	18:S:61:ILE:HG13	2.04	0.56
35:1:549:U:H2'	35:1:550:A:C8	2.39	0.56
35:1:1941:C:H1'	35:1:3362:A:C8	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:3039:C:OP1	56:6:88:ARG:NH1	2.34	0.56
40:n:170:LYS:HB3	40:n:172:HIS:CE1	2.40	0.56
43:q:28:VAL:HG22	43:q:33:THR:HG22	1.88	0.56
46:t:75:PHE:H	46:t:98:ASP:N	2.02	0.56
70:i:84:LYS:HG3	70:i:85:SER:N	2.20	0.56
35:AR:604:G:N7	80:AR:3660:OHX:N2	2.53	0.56
35:AR:1257:C:H2'	35:AR:1258:U:O4'	2.05	0.56
39:CG:232:ASP:OD1	39:CG:232:ASP:N	2.38	0.56
50:CR:22:LEU:HD12	50:CR:146:ILE:HD12	1.86	0.56
56:CX:126:TRP:HB2	56:CX:129:VAL:CG1	2.32	0.56
61:DJ:40:SER:OG	61:DJ:42:PRO:HD3	2.05	0.56
62:DK:91:ASN:HA	62:DK:94:ILE:HG22	1.85	0.56
73:b:96:ALA:C	73:b:98:PRO:HD2	2.29	0.56
79:h:47:LEU:HA	79:h:54:PHE:O	2.05	0.56
1:sR:947:U:H2'	1:sR:948:G:H8	1.70	0.56
1:sR:1479:A:H2'	1:sR:1480:G:H8	1.70	0.56
1:sR:1554:U:H3'	1:sR:1555:A:H8	1.70	0.56
1:sR:1556:A:OP1	16:c5:115:TYR:OH	2.22	0.56
1:sR:1688:U:H2'	1:sR:1689:A:C8	2.39	0.56
79:Rb:69:GLN:N	79:Rb:83:ALA:O	2.38	0.56
2:s0:34:GLU:HA	2:s0:37:VAL:HG12	1.87	0.56
1:A:69:G:H2'	1:A:70:C:C6	2.40	0.56
1:A:197:A:N6	10:J:141:ARG:HH22	2.03	0.56
1:A:274:G:H3'	1:A:275:C:C6	2.41	0.56
1:A:647:G:N2	1:A:687:G:H1	2.02	0.56
1:A:741:C:O2	9:I:107:ARG:NH1	2.39	0.56
1:A:838:G:H4'	13:M:26:LYS:O	2.05	0.56
1:A:872:G:H2'	1:A:873:U:O4'	2.04	0.56
1:A:1559:A:C6	19:T:134:ARG:HD3	2.39	0.56
2:B:13:ASP:OD2	2:B:179:ARG:NH2	2.36	0.56
2:B:42:PRO:CD	18:S:105:GLN:HE21	2.18	0.56
3:C:21:VAL:HG23	3:C:23:PRO:HD3	1.87	0.56
3:C:145:LYS:HA	3:C:149:GLN:HE21	1.70	0.56
7:G:43:PHE:CG	7:G:44:ASN:N	2.73	0.56
12:L:17:GLN:HG2	12:L:18:GLU:HG2	1.88	0.56
16:Q:103:ASN:HD21	70:i:56:GLY:CA	2.18	0.56
17:R:87:LYS:HA	17:R:90:VAL:HG22	1.87	0.56
18:S:45:ARG:HA	18:S:48:ASN:OD1	2.05	0.56
19:T:146:ALA:HB3	70:i:68:ARG:HE	1.70	0.56
23:X:20:THR:HB	23:X:22:LYS:HG3	1.87	0.56
26:AA:97:SER:OG	26:AA:99:GLU:HG2	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:DB:109:GLU:HA	26:DB:112:LYS:HE2	1.86	0.56
35:1:2746:A:C2	39:m:146:LEU:HD23	2.40	0.56
35:1:3294:A:H2'	35:1:3295:A:O4'	2.06	0.56
33:k:284:ARG:NH2	33:k:295:ALA:O	2.38	0.56
41:o:178:ILE:HG23	41:o:183:ASP:HB3	1.88	0.56
42:p:184:ALA:O	42:p:188:THR:HG23	2.05	0.56
42:p:201:THR:HG23	42:p:202:GLU:HG3	1.87	0.56
45:s:23:VAL:HB	45:s:30:LEU:HD13	1.88	0.56
45:s:166:LYS:HD3	45:s:167:TYR:N	2.20	0.56
55:5:97:SER:HB2	55:5:103:TYR:CD1	2.40	0.56
56:6:93:LEU:HD23	56:6:93:LEU:H	1.69	0.56
57:7:9:SER:HB3	57:7:51:TRP:CH2	2.40	0.56
35:AR:314:U:H2'	35:AR:315:C:H6	1.69	0.56
35:AR:787:G:H2'	35:AR:788:C:C6	2.40	0.56
35:AR:1284:C:O2'	35:AR:1285:G:H5'	2.05	0.56
35:AR:1564:U:O2	35:AR:1576:G:O6	2.23	0.56
35:AR:1565:G:N2	35:AR:1574:C:N3	2.54	0.56
35:AR:3016:A:H2'	35:AR:3017:A:C8	2.39	0.56
35:AR:3275:U:H5	35:AR:3276:G:H21	1.53	0.56
35:AR:3377:G:O6	80:AR:3591:OHX:N4	2.38	0.56
37:AT:55:U:O2	80:AT:209:OHX:N1	2.38	0.56
38:CF:300:ARG:O	51:CS:39:ARG:NH2	2.31	0.56
39:CG:151:GLN:OE1	39:CG:152:ARG:N	2.38	0.56
39:CG:215:ASP:OD1	39:CG:217:GLU:HG2	2.05	0.56
42:CJ:83:ASP:OD1	42:CJ:86:THR:OG1	2.21	0.56
43:CK:105:GLU:HA	43:CK:109:ALA:HB3	1.87	0.56
68:DQ:15:LYS:HA	68:DQ:18:ARG:HD3	1.86	0.56
79:h:152:SER:OG	79:h:172:ALA:O	2.15	0.56
1:sR:486:G:N2	1:sR:501:U:H3	1.96	0.56
79:Rb:240:VAL:HA	79:Rb:255:ALA:O	2.06	0.56
5:s3:162:GLN:N	5:s3:163:PRO:HD2	2.20	0.56
7:s5:128:ASN:O	7:s5:132:VAL:HG23	2.05	0.56
8:s6:212:LEU:O	8:s6:215:ARG:HG2	2.04	0.56
10:s8:81:VAL:HA	10:s8:102:VAL:HG12	1.87	0.56
12:c0:14:TYR:CE1	12:c0:18:GLU:HG3	2.39	0.56
16:c5:97:TYR:HE1	16:c5:99:GLY:C	2.14	0.56
19:c8:27:LYS:HE3	19:c8:54:LEU:O	2.05	0.56
19:c8:116:LEU:HA	19:c8:119:ILE:HG22	1.86	0.56
20:c9:100:ILE:O	20:c9:104:VAL:HG13	2.04	0.56
23:d2:37:PHE:O	23:d2:40:VAL:HG22	2.05	0.56
72:d5:91:PRO:HB3	72:d5:101:TYR:CE1	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:e1:103:LEU:HD13	78:e1:103:LEU:O	2.05	0.56
1:A:405:C:OP1	80:A:1910:OHX:N4	2.38	0.56
1:A:1081:A:H2'	1:A:1083:G:N7	2.19	0.56
1:A:1429:G:H21	21:V:72:ASN:ND2	2.03	0.56
3:C:127:VAL:CG1	3:C:173:THR:HG22	2.36	0.56
3:C:171:ILE:HG23	3:C:174:LYS:HE2	1.88	0.56
3:C:193:ILE:O	3:C:197:ILE:HD13	2.06	0.56
9:I:27:LEU:HD13	9:I:27:LEU:O	2.05	0.56
17:R:75:VAL:HA	17:R:78:VAL:HG12	1.88	0.56
20:U:130:ARG:C	20:U:132:LEU:H	2.13	0.56
31:CD:117:GLU:HG2	31:CD:124:GLY:H	1.70	0.56
31:CD:200:ARG:NH2	35:AR:2146:C:OP1	2.39	0.56
35:1:1001:G:O2'	35:1:1041:U:OP2	2.23	0.56
35:1:1014:U:H3	35:1:1036:A:H61	1.53	0.56
35:1:1207:G:N7	80:1:3555:OHX:N1	2.54	0.56
35:1:2219:A:H2'	35:1:2220:A:C8	2.41	0.56
35:1:3279:A:N6	59:AG:54:ARG:HE	2.04	0.56
36:3:53:U:H1'	45:s:9:MET:HE2	1.87	0.56
38:l:265:GLU:HG2	38:l:266:THR:HG23	1.86	0.56
58:8:46:TYR:CD1	61:AI:75:TYR:HB3	2.39	0.56
61:AI:19:SER:O	61:AI:22:VAL:HG22	2.04	0.56
35:AR:367:A:OP1	80:AR:3426:OHX:N3	2.38	0.56
35:AR:551:A:HO2'	35:AR:552:G:H8	1.53	0.56
35:AR:1699:A:H2'	35:AR:1700:G:H8	1.71	0.56
44:CL:191:LYS:HD3	44:CL:213:PHE:HD2	1.70	0.56
72:a:91:PRO:HB3	72:a:101:TYR:CE1	2.40	0.56
78:g:108:VAL:HB	78:g:114:VAL:HA	1.87	0.56
79:h:114:ASP:HB3	79:h:123:ILE:HD11	1.87	0.56
1:sR:151:G:H22	1:sR:163:G:H1	1.52	0.56
1:sR:380:U:N3	11:s9:5:PRO:HB3	2.21	0.56
1:sR:397:A:H4'	10:s8:50:GLY:HA2	1.86	0.56
1:sR:397:A:O3'	10:s8:50:GLY:HA2	2.05	0.56
1:sR:1091:A:H4'	1:sR:1092:A:O5'	2.05	0.56
1:sR:1471:A:OP1	7:s5:185:ARG:NH1	2.39	0.56
79:Rb:232:TYR:OH	79:Rb:265:LEU:CD1	2.54	0.56
2:s0:90:ALA:HA	2:s0:95:ALA:HB3	1.87	0.56
12:c0:70:GLU:HG3	12:c0:71:GLU:H	1.71	0.56
13:c1:67:ARG:HH12	13:c1:129:ARG:N	2.04	0.56
19:c8:28:ILE:HG12	19:c8:61:LEU:CD2	2.34	0.56
19:c8:32:LEU:HD21	19:c8:69:ILE:HD12	1.87	0.56
72:d5:61:SER:H	72:d5:64:VAL:HG12	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:702:G:N7	80:A:2142:OHX:N3	2.53	0.56
1:A:1171:A:H2'	1:A:1172:G:H8	1.70	0.56
1:A:1294:G:O2'	1:A:1321:A:N1	2.36	0.56
1:A:1321:A:H8	2:B:131:GLN:HE22	1.54	0.56
1:A:1546:G:H2'	1:A:1547:A:C8	2.41	0.56
1:A:1636:C:O2	1:A:1765:A:N6	2.38	0.56
3:C:36:SER:C	3:C:38:PHE:H	2.11	0.56
5:E:40:ARG:CD	21:V:110:PRO:HB3	2.35	0.56
6:F:208:VAL:HG13	6:F:210:ILE:HD11	1.86	0.56
7:G:214:LYS:O	7:G:218:GLU:HG2	2.06	0.56
23:X:111:MET:CE	23:X:115:GLU:HG2	2.35	0.56
26:DB:57:HIS:HB3	26:DB:62:VAL:HG12	1.87	0.56
26:DB:106:GLN:HA	26:DB:109:GLU:CB	2.35	0.56
33:CE:56:ILE:HG12	33:CE:356:LEU:HD22	1.87	0.56
34:AF:103:LYS:O	34:AF:106:VAL:HG22	2.05	0.56
35:1:2429:G:H2'	35:1:2430:A:C8	2.40	0.56
35:1:3065:G:H2'	35:1:3066:U:C6	2.40	0.56
36:3:95:A:OP2	80:3:222:OHX:N3	2.38	0.56
52:z:114:LYS:HG3	52:z:146:LYS:NZ	2.20	0.56
60:AH:101:VAL:O	60:AH:105:VAL:HG13	2.06	0.56
66:AN:77:ILE:HB	66:AN:79:GLU:OE2	2.06	0.56
38:CF:23:PRO:HB3	38:CF:259:ASP:OD1	2.05	0.56
40:CH:52:VAL:HG11	40:CH:65:ILE:HB	1.87	0.56
41:CI:144:ILE:O	41:CI:148:VAL:HG23	2.06	0.56
44:CL:210:ILE:HG13	44:CL:217:PHE:CD2	2.39	0.56
54:CV:57:TYR:HA	54:CV:60:LYS:HG3	1.88	0.56
55:CW:32:SER:HA	55:CW:35:LYS:HG2	1.88	0.56
59:DH:31:LYS:NZ	59:DH:35:VAL:O	2.38	0.56
1:sR:482:U:H3	1:sR:505:A:N6	1.91	0.56
1:sR:530:C:OP1	80:sR:1958:OHX:N1	2.38	0.56
1:sR:1336:A:OP1	80:sR:2024:OHX:N5	2.39	0.56
79:Rb:14:GLU:HG3	79:Rb:309:VAL:HG13	1.86	0.56
18:c7:51:ALA:O	18:c7:55:THR:OG1	2.20	0.56
19:c8:28:ILE:HG22	19:c8:32:LEU:HD11	1.86	0.56
77:e0:50:VAL:HG13	77:e0:54:ARG:H	1.70	0.56
1:A:346:G:H5'	13:M:79:LYS:HB3	1.88	0.56
1:A:805:U:OP1	23:X:32:LYS:NZ	2.25	0.56
1:A:1217:A:H5"	12:L:1:MET:SD	2.46	0.56
4:D:143:TYR:HD2	4:D:146:THR:O	1.88	0.56
7:G:160:VAL:HA	75:d:42:ARG:NH1	2.21	0.56
13:M:110:HIS:O	13:M:139:VAL:HG23	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DE:63:SER:OG	30:DE:65:THR:OG1	2.18	0.56
35:1:2432:A:OP2	80:1:3513:OHX:N4	2.38	0.56
35:1:2588:U:OP1	42:p:241:LYS:NZ	2.38	0.56
35:1:2726:C:O2'	35:1:2727:A:H2'	2.05	0.56
35:1:3040:A:H5"	56:6:12:ARG:HB2	1.88	0.56
35:1:3070:A:OP1	52:z:62:ARG:NH1	2.39	0.56
35:1:3295:A:H2'	35:1:3296:A:C8	2.39	0.56
37:4:40:A:H2'	37:4:41:A:H8	1.70	0.56
33:k:188:ILE:O	33:k:192:VAL:HG12	2.06	0.56
39:m:83:LEU:HD12	39:m:88:ILE:CD1	2.35	0.56
48:v:94:TYR:CE2	48:v:96:ARG:HB2	2.41	0.56
38:CF:10:SER:OG	38:CF:14:GLU:HB2	2.05	0.56
39:CG:235:SER:O	39:CG:239:ILE:HG13	2.06	0.56
44:CL:51:HIS:HB3	44:CL:134:ILE:HG23	1.88	0.56
1:sR:358:U:OP1	80:sR:2178:OHX:N1	2.39	0.56
4:s2:109:GLY:HA2	4:s2:139:ILE:HG13	1.87	0.56
4:s2:130:ILE:HG22	4:s2:131:ILE:HD13	1.87	0.56
16:c5:111:MET:SD	19:c8:119:ILE:HD11	2.45	0.56
74:d7:55:THR:HG22	74:d7:61:THR:O	2.05	0.56
1:A:1572:G:H1'	7:G:185:ARG:HH21	1.70	0.56
1:A:1613:U:H2'	1:A:1614:A:H5"	1.86	0.56
3:C:52:THR:OG1	3:C:53:GLY:N	2.39	0.56
7:G:45:LYS:HE2	7:G:46:TRP:CE2	2.40	0.56
7:G:74:ALA:C	17:R:114:ARG:HD3	2.31	0.56
7:G:158:GLN:HE21	75:d:66:LEU:HD21	1.70	0.56
15:P:102:LEU:HA	15:P:105:LEU:HB2	1.87	0.56
16:Q:75:PRO:HA	16:Q:93:VAL:HG23	1.86	0.56
18:S:71:PHE:HD1	18:S:73:LEU:HB3	1.71	0.56
20:U:101:ASN:CA	20:U:104:VAL:HG12	2.36	0.56
23:X:24:GLN:NE2	74:c:4:VAL:HA	2.20	0.56
35:1:2987:A:H2'	35:1:2988:C:C6	2.41	0.56
35:1:3020:U:O4	80:1:3494:OHX:N4	2.38	0.56
39:m:43:LYS:C	39:m:44:TYR:CD1	2.84	0.56
41:o:25:GLN:HG2	41:o:25:GLN:O	2.04	0.56
42:p:100:GLU:OE1	42:p:105:LYS:HB2	2.06	0.56
48:v:102:ALA:O	48:v:106:VAL:HG12	2.06	0.56
50:x:119:VAL:HA	50:x:145:HIS:O	2.06	0.56
35:AR:269:G:P	48:CP:44:ARG:HH22	2.29	0.56
35:AR:1614:C:H2'	35:AR:1615:C:H6	1.71	0.56
35:AR:2829:U:C2	35:AR:2830:G:C8	2.94	0.56
35:AR:3337:G:H2'	35:AR:3338:C:C6	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:CH:102:ASN:HD21	40:CH:104:GLU:HB3	1.69	0.56
46:CN:105:ASN:ND2	62:DK:17:VAL:HG21	2.21	0.56
52:CT:13:SER:OG	52:CT:38:ARG:NH2	2.38	0.56
56:CX:109:MET:HE1	56:CX:132:ASN:HB2	1.86	0.56
69:DR:10:ILE:O	69:DR:13:LYS:HD3	2.06	0.56
74:c:74:SER:O	74:c:75:GLU:HB2	2.04	0.56
75:d:16:LEU:HD23	75:d:28:VAL:HA	1.86	0.56
78:g:148:TYR:HD1	78:g:148:TYR:N	2.01	0.56
79:h:14:GLU:HA	79:h:309:VAL:HG12	1.88	0.56
79:h:239:GLU:HG2	79:h:241:PHE:CE1	2.41	0.56
1:sR:683:C:H5'	1:sR:684:A:OP2	2.05	0.56
1:sR:683:C:N4	1:sR:684:A:N7	2.53	0.56
1:sR:863:A:O5'	23:d2:57:ARG:HG2	2.05	0.56
1:sR:1172:G:H2'	1:sR:1173:C:C6	2.40	0.56
79:Rb:103:PHE:HE2	79:Rb:135:THR:O	1.89	0.56
7:s5:189:THR:HG21	72:d5:98:GLN:OE1	2.05	0.56
9:s7:70:PHE:O	9:s7:74:GLN:HB2	2.06	0.56
24:d3:63:GLN:CD	24:d3:64:PRO:HA	2.31	0.56
1:A:236:A:H2'	1:A:237:C:O4'	2.05	0.56
1:A:747:C:H2'	1:A:748:U:C6	2.40	0.56
9:I:11:GLN:HB3	9:I:13:PRO:HD2	1.87	0.56
11:K:31:ALA:HA	11:K:36:LEU:HD12	1.87	0.56
17:R:87:LYS:HE3	17:R:117:LEU:HA	1.88	0.56
22:W:57:GLY:O	22:W:61:SER:OG	2.24	0.56
26:DB:136:PHE:C	35:AR:2556:C:H5'	2.31	0.56
30:AD:63:SER:OG	30:AD:65:THR:OG1	2.20	0.56
31:CD:143:GLU:O	31:CD:143:GLU:HG2	2.06	0.56
35:1:508:U:O4	80:1:3506:OHX:N5	2.39	0.56
35:1:1561:G:O2'	35:1:1562:C:OP2	2.19	0.56
35:1:2093:A:H2'	35:1:2094:C:O4'	2.05	0.56
35:1:2103:U:H2'	35:1:2104:A:C8	2.40	0.56
37:4:152:G:H2'	37:4:153:U:O4'	2.05	0.56
43:q:128:VAL:HG23	43:q:132:VAL:HG23	1.88	0.56
53:0:148:LEU:HD12	53:0:149:LYS:H	1.71	0.56
56:6:108:GLU:HB3	56:6:128:ARG:HD3	1.88	0.56
62:AJ:40:VAL:O	62:AJ:44:VAL:HG13	2.06	0.56
68:AP:65:THR:HG1	68:AP:87:ARG:HG2	1.71	0.56
69:AQ:74:ALA:O	69:AQ:78:THR:HG23	2.06	0.56
35:AR:114:A:H2'	35:AR:115:A:O4'	2.06	0.56
35:AR:2427:U:H2'	35:AR:2428:U:C6	2.41	0.56
41:CI:239:LEU:O	41:CI:243:MET:HG3	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CJ:56:VAL:O	42:CJ:60:ARG:HG3	2.05	0.56
51:CS:165:ILE:HG13	51:CS:167:SER:O	2.06	0.56
55:CW:33:TYR:HE2	55:CW:63:VAL:HG11	1.71	0.56
56:CX:79:VAL:HB	56:CX:118:VAL:HG13	1.87	0.56
60:DI:79:SER:C	60:DI:80:ARG:HD2	2.30	0.56
79:h:261:LYS:HB3	79:h:270:LEU:HD11	1.88	0.56
1:sR:366:A:OP1	1:sR:758:U:O2'	2.20	0.56
1:sR:477:A:P	77:e0:28:LYS:HZ3	2.29	0.56
1:sR:874:C:H2'	1:sR:875:G:C8	2.40	0.56
79:Rb:220:ILE:CG2	79:Rb:234:LEU:HD13	2.36	0.56
2:s0:124:THR:HA	2:s0:146:LEU:HD13	1.87	0.56
10:s8:81:VAL:CG1	10:s8:94:ASN:HA	2.34	0.56
12:c0:5:LYS:O	12:c0:9:ASN:ND2	2.38	0.56
16:c5:52:LYS:N	16:c5:53:PRO:HD3	2.21	0.56
17:c6:79:TYR:O	17:c6:82:ARG:HG2	2.05	0.56
17:c6:93:HIS:CA	17:c6:97:VAL:HG12	2.36	0.56
1:A:871:G:H2'	1:A:872:G:C8	2.41	0.56
1:A:1784:C:H2'	1:A:1785:U:C6	2.41	0.56
2:B:84:ARG:CD	2:B:84:ARG:H	2.19	0.56
3:C:97:LEU:HG	3:C:232:HIS:NE2	2.20	0.56
3:C:217:LEU:HD12	3:C:218:LEU:H	1.69	0.56
19:T:81:ILE:HG13	19:T:82:PRO:HD2	1.88	0.56
23:X:11:LEU:CD2	23:X:72:CYS:HB2	2.36	0.56
28:DC:74:ASN:OD1	28:DC:113:LEU:HB2	2.06	0.56
35:1:291:C:OP1	48:v:68:ARG:HB3	2.05	0.56
35:1:419:G:N7	80:4:201:OHX:N6	2.54	0.56
35:1:1899:G:O2'	35:1:2334:U:O4	2.19	0.56
35:1:2592:G:H4'	35:1:2594:C:C2	2.41	0.56
35:1:3026:G:N7	80:1:3458:OHX:N3	2.54	0.56
44:r:176:LEU:HD22	44:r:180:GLU:HG3	1.87	0.56
59:AG:14:LEU:HD11	59:AG:31:LYS:HB2	1.86	0.56
69:AQ:46:THR:HB	69:AQ:58:SER:HB2	1.87	0.56
35:AR:2412:G:H2'	35:AR:2413:A:C8	2.41	0.56
35:AR:2432:A:OP2	80:AR:3622:OHX:N2	2.39	0.56
35:AR:2801:A:O2'	35:AR:2802:A:H2'	2.06	0.56
35:AR:3075:G:O6	80:AR:3607:OHX:N6	2.38	0.56
43:CK:110:LYS:O	43:CK:128:VAL:HB	2.06	0.56
47:CO:113:THR:HG23	47:CO:116:GLU:H	1.70	0.56
73:b:10:ARG:CZ	73:b:36:ILE:HG22	2.36	0.56
1:sR:696:C:H4'	1:sR:697:C:H6	1.69	0.56
1:sR:753:A:H4'	6:s4:221:ARG:HD2	1.87	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1200:G:H4'	1:sR:1201:G:C5'	2.36	0.56
1:sR:1498:G:H2'	1:sR:1499:G:H8	1.71	0.56
1:sR:1606:C:H2'	1:sR:1607:G:C8	2.41	0.56
4:s2:103:VAL:HB	4:s2:113:LEU:HD12	1.88	0.56
7:s5:130:ILE:HD12	7:s5:131:GLN:H	1.71	0.56
13:c1:93:TYR:HB2	13:c1:100:TYR:HE1	1.70	0.56
19:c8:6:GLN:CG	72:d5:44:GLN:HE21	2.19	0.56
23:d2:71:LYS:HB3	23:d2:130:TYR:CE1	2.41	0.56
1:A:227:U:H3	1:A:834:G:H1	1.54	0.56
1:A:704:C:H4'	1:A:705:U:OP1	2.06	0.56
3:C:133:TYR:CD2	3:C:181:LEU:HD21	2.41	0.56
7:G:96:SER:OG	7:G:172:ILE:HD13	2.06	0.56
16:Q:33:PHE:CD2	16:Q:87:PRO:HD3	2.41	0.56
18:S:17:ILE:HD11	18:S:54:THR:HG22	1.88	0.56
30:AD:16:LEU:HD12	30:AD:19:LYS:HE2	1.88	0.56
35:1:1301:A:H4'	35:1:1302:A:O5'	2.06	0.56
35:1:1580:A:H5"	35:1:2522:G:C2	2.41	0.56
35:1:2217:U:H2'	35:1:2218:G:C8	2.40	0.56
35:1:2505:U:H2'	35:1:2506:U:C6	2.41	0.56
35:1:2947:G:C2	33:k:250:ALA:HB1	2.41	0.56
36:3:85:G:O3'	41:o:218:ARG:NH2	2.39	0.56
38:l:150:LEU:HD23	38:l:249:ILE:HG12	1.88	0.56
39:m:282:ARG:HA	39:m:285:ARG:HB3	1.88	0.56
60:AH:29:ILE:HD11	60:AH:31:ARG:HH21	1.71	0.56
60:AH:91:ARG:O	60:AH:95:ILE:HG22	2.06	0.56
35:AR:1094:U:H4'	35:AR:1095:U:OP1	2.06	0.56
35:AR:1616:U:H2'	35:AR:1617:G:C8	2.40	0.56
35:AR:3051:U:C2	35:AR:3052:G:C8	2.94	0.56
35:AR:3371:G:H2'	35:AR:3372:A:H8	1.70	0.56
37:AT:150:G:OP2	80:AT:207:OHX:N2	2.39	0.56
41:CI:35:ALA:O	41:CI:38:LYS:HG3	2.06	0.56
68:DQ:50:PHE:O	80:DQ:203:OHX:N1	2.39	0.56
1:sR:14:C:OP1	4:s2:164:SER:OG	2.24	0.56
1:sR:199:G:HO2'	1:sR:200:A:H8	1.52	0.56
1:sR:542:A:C8	1:sR:543:C:H2'	2.41	0.56
1:sR:817:A:H2'	1:sR:818:C:C6	2.41	0.56
1:sR:1555:A:OP1	16:c5:47:ARG:HD3	2.06	0.56
1:sR:1795:U:OP2	73:d6:5:ARG:NH2	2.38	0.56
79:Rb:17:ASN:C	79:Rb:39:ASP:HB3	2.32	0.56
79:Rb:237:GLN:NE2	79:Rb:238:ASP:OD2	2.39	0.56
3:s1:33:LYS:HE2	3:s1:95:ASN:HD21	1.71	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:191:ASP:OD1	5:s3:193:ALA:N	2.38	0.56
21:d0:67:THR:OG1	76:d9:40:ARG:NH1	2.39	0.56
74:d7:36:LYS:NZ	74:d7:40:CYS:O	2.35	0.56
1:A:127:G:N7	8:H:199:GLN:NE2	2.52	0.55
1:A:764:U:O4	80:A:1969:OHX:N4	2.39	0.55
1:A:1022:C:OP2	80:A:2124:OHX:N1	2.39	0.55
1:A:1132:A:H2'	1:A:1133:A:C8	2.41	0.55
4:D:120:GLU:OE2	5:E:124:ARG:NH2	2.37	0.55
6:F:126:VAL:HG13	6:F:156:VAL:HA	1.87	0.55
7:G:46:TRP:CH2	7:G:119:ASP:HA	2.40	0.55
7:G:46:TRP:HH2	7:G:119:ASP:HA	1.71	0.55
10:J:77:ARG:HG3	10:J:105:ASP:HB2	1.87	0.55
13:M:42:PHE:HA	13:M:141:LYS:NZ	2.22	0.55
14:O:19:SER:O	14:O:19:SER:OG	2.24	0.55
21:V:90:TYR:C	21:V:91:ILE:HD13	2.31	0.55
22:W:37:ALA:HA	22:W:50:TYR:HD1	1.70	0.55
33:CE:37:ARG:HA	33:CE:185:GLY:O	2.06	0.55
35:1:1259:A:N3	35:1:1280:C:O2'	2.35	0.55
35:1:2303:A:OP1	67:AO:23:ARG:NH2	2.39	0.55
35:1:3009:G:N7	80:1:4130:OHX:N2	2.54	0.55
44:r:47:PRO:HB3	44:r:171:TRP:CZ2	2.42	0.55
61:AI:102:GLU:O	61:AI:106:LYS:HG3	2.06	0.55
35:AR:945:C:H2'	35:AR:946:U:C6	2.41	0.55
35:AR:1915:A:H2'	35:AR:1916:U:H6	1.70	0.55
35:AR:2767:U:OP1	68:DQ:34:SER:HB3	2.06	0.55
35:AR:3322:A:H2'	35:AR:3323:A:C8	2.41	0.55
38:CF:182:LEU:HD21	38:CF:223:PRO:HG2	1.87	0.55
38:CF:271:LYS:HB2	38:CF:274:TYR:HB3	1.87	0.55
40:CH:46:ARG:HH11	40:CH:46:ARG:HG3	1.71	0.55
43:CK:129:ARG:O	43:CK:132:VAL:HG22	2.06	0.55
47:CO:23:ILE:HG21	47:CO:28:SER:HB2	1.87	0.55
61:DJ:47:VAL:O	61:DJ:50:SER:N	2.40	0.55
71:p0:60:ARG:HG2	71:p0:77:LEU:HG	1.88	0.55
1:sR:1234:A:OP2	1:sR:1245:G:O2'	2.23	0.55
79:Rb:93:ASP:HB3	79:Rb:96:THR:CG2	2.37	0.55
79:Rb:106:HIS:CE1	79:Rb:126:SER:HB3	2.41	0.55
3:s1:46:THR:HG22	3:s1:47:LEU:H	1.72	0.55
4:s2:70:ASP:N	4:s2:70:ASP:OD1	2.37	0.55
8:s6:69:LEU:HD23	8:s6:73:ILE:HD13	1.88	0.55
15:c4:128:LYS:HD3	73:d6:27:SER:HB3	1.89	0.55
16:c5:53:PRO:HB2	16:c5:57:MET:CG	2.36	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c9:6:VAL:HB	20:c9:66:TYR:HE2	1.71	0.55
20:c9:117:SER:HB2	20:c9:123:ARG:HB3	1.87	0.55
23:d2:17:ALA:HB2	23:d2:25:VAL:HG11	1.88	0.55
1:A:97:C:H2'	1:A:98:U:H6	1.70	0.55
1:A:1393:C:H2'	1:A:1394:G:O4'	2.06	0.55
2:B:185:ARG:HA	22:W:44:ARG:HA	1.89	0.55
9:I:14:THR:OG1	9:I:15:GLU:N	2.38	0.55
22:W:79:LEU:HD12	22:W:82:VAL:HG11	1.89	0.55
35:1:118:U:O2	35:1:121:A:H5'	2.05	0.55
35:1:1863:G:O6	80:1:3467:OHX:N4	2.38	0.55
35:1:2317:A:OP2	80:1:3562:OHX:N2	2.39	0.55
31:j:70:ARG:HG2	31:j:71:LEU:N	2.21	0.55
43:q:76:ASP:O	43:q:80:THR:HG23	2.05	0.55
49:w:78:ARG:HH11	49:w:78:ARG:HB3	1.71	0.55
51:y:165:ILE:HD12	51:y:166:LEU:H	1.71	0.55
35:AR:1646:G:O2'	35:AR:1808:G:N2	2.31	0.55
35:AR:1658:G:H2'	35:AR:1659:U:C6	2.40	0.55
35:AR:1781:C:H2'	35:AR:1782:U:C6	2.41	0.55
35:AR:1806:A:H4'	60:DI:76:TYR:HE1	1.70	0.55
35:AR:2882:U:H2'	35:AR:2883:U:H6	1.71	0.55
39:CG:120:LYS:O	39:CG:248:ARG:NH2	2.38	0.55
40:CH:142:ASP:O	40:CH:146:ILE:HG13	2.06	0.55
41:CI:157:ASN:O	41:CI:158:LYS:HD2	2.06	0.55
45:CM:15:GLU:HB2	45:CM:132:ASN:OD1	2.06	0.55
63:DL:25:ARG:HH11	65:DN:51:ILE:HB	1.71	0.55
1:sR:119:A:H1'	1:sR:397:A:C4	2.41	0.55
1:sR:711:U:H3'	1:sR:712:G:C8	2.40	0.55
1:sR:808:U:H2'	1:sR:809:A:C8	2.41	0.55
1:sR:1017:U:H2'	1:sR:1018:U:H6	1.70	0.55
1:sR:1592:A:H2'	1:sR:1593:A:H8	1.72	0.55
79:Rb:8:VAL:H	79:Rb:316:MET:HE1	1.70	0.55
79:Rb:149:ASP:HB2	79:Rb:175:ASP:CB	2.35	0.55
3:s1:72:ASP:OD1	15:c4:114:ARG:NH1	2.40	0.55
7:s5:199:ILE:HA	7:s5:202:ALA:HB3	1.88	0.55
9:s7:73:VAL:HG23	9:s7:76:LYS:HG2	1.88	0.55
19:c8:70:VAL:O	19:c8:74:GLN:HG3	2.07	0.55
74:d7:47:PHE:CD1	74:d7:48:SER:N	2.74	0.55
75:d8:9:LEU:HD23	75:d8:33:LEU:HD11	1.87	0.55
1:A:226:A:H2'	1:A:227:U:H5'	1.88	0.55
1:A:417:A:H4'	1:A:418:G:O5'	2.05	0.55
1:A:1583:A:N1	1:A:1611:A:H5"	2.22	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:151:ASP:O	6:F:154:ILE:HG22	2.07	0.55
17:R:87:LYS:CE	17:R:117:LEU:HA	2.35	0.55
21:V:57:ARG:CG	21:V:89:ARG:HD3	2.35	0.55
23:X:111:MET:HE1	23:X:119:LYS:HD2	1.88	0.55
35:1:209:A:H4'	35:1:211:A:C8	2.40	0.55
35:1:783:A:OP2	80:1:4160:OHX:N4	2.39	0.55
35:1:1498:A:H2'	35:1:1499:C:H6	1.70	0.55
35:1:2225:U:H2'	35:1:2226:U:C6	2.41	0.55
35:1:2618:G:OP1	44:r:116:ARG:HG3	2.06	0.55
35:1:3343:G:H21	35:1:3362:A:H2	1.52	0.55
46:t:76:THR:HG22	46:t:101:ARG:HB3	1.88	0.55
49:w:140:LYS:O	49:w:143:THR:HG22	2.06	0.55
51:y:123:THR:OG1	51:y:125:ASP:OD1	2.15	0.55
52:z:19:LYS:O	52:z:22:VAL:HG22	2.07	0.55
61:AI:66:VAL:HA	61:AI:69:LEU:HG	1.87	0.55
35:AR:437:G:N1	35:AR:621:A:C6	2.66	0.55
35:AR:673:U:H2'	35:AR:674:G:H8	1.72	0.55
35:AR:1798:A:H2'	35:AR:1799:A:C8	2.42	0.55
43:CK:49:ASN:OD1	43:CK:52:LEU:N	2.39	0.55
32:DF:62:ARG:HB2	32:DF:66:GLY:O	2.06	0.55
60:DI:80:ARG:HB3	60:DI:84:CYS:HB3	1.87	0.55
70:sM:68:ARG:O	70:sM:71:ASN:HB2	2.06	0.55
72:a:89:ILE:HA	72:a:102:THR:O	2.06	0.55
79:h:103:PHE:HB3	79:h:134:TRP:CE3	2.42	0.55
79:h:241:PHE:CE2	79:h:288:HIS:CD2	2.95	0.55
1:sR:329:G:H2'	1:sR:330:G:H8	1.72	0.55
1:sR:599:A:H2'	1:sR:600:U:C6	2.42	0.55
1:sR:1251:U:C4'	78:e1:133:ALA:HB1	2.32	0.55
1:sR:1370:U:O4	80:sR:1997:OHX:N6	2.39	0.55
7:s5:46:TRP:CE3	7:s5:129:PRO:HG3	2.41	0.55
7:s5:189:THR:OG1	7:s5:190:ILE:N	2.37	0.55
17:c6:75:VAL:O	17:c6:78:VAL:HG22	2.05	0.55
1:A:705:U:H2'	1:A:706:A:N7	2.22	0.55
1:A:1114:G:O2'	1:A:1130:G:O6	2.18	0.55
1:A:1588:G:OP1	80:A:2137:OHX:N5	2.39	0.55
10:J:39:GLY:HA2	10:J:61:GLU:CB	2.33	0.55
11:K:86:LEU:HD13	11:K:87:SER:O	2.05	0.55
15:P:80:HIS:HB3	15:P:114:ARG:O	2.06	0.55
32:AE:28:ARG:NH2	35:1:3058:U:OP1	2.39	0.55
33:CE:241:LYS:HG2	35:AR:874:U:OP1	2.07	0.55
35:1:1192:C:N4	35:1:1302:A:OP2	2.39	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2659:G:O6	80:1:3410:OHX:N1	2.39	0.55
35:1:2842:U:OP1	35:1:2844:C:N4	2.32	0.55
35:1:3242:G:N2	35:1:3245:A:OP2	2.39	0.55
36:3:22:A:H2'	36:3:23:A:H8	1.69	0.55
39:m:146:LEU:CD1	39:m:163:LEU:HB2	2.37	0.55
39:m:211:LEU:HB3	39:m:219:PHE:HD2	1.70	0.55
35:AR:330:G:N7	80:AR:3552:OHX:N1	2.54	0.55
35:AR:1120:A:H2'	35:AR:1121:U:H6	1.72	0.55
37:AT:4:C:H2'	37:AT:5:U:H6	1.72	0.55
43:CK:109:ALA:HB1	43:CK:111:PHE:CE1	2.41	0.55
50:CR:82:ARG:NH2	87:CR:301:HOH:O	2.39	0.55
34:DG:103:LYS:O	34:DG:106:VAL:HG22	2.06	0.55
71:p0:5:ARG:HA	71:p0:8:LYS:HB2	1.89	0.55
75:d:19:THR:CG2	75:d:27:GLN:HG3	2.30	0.55
1:sR:139:C:H4'	1:sR:140:A:O5'	2.05	0.55
1:sR:358:U:O4	80:sR:1931:OHX:N1	2.39	0.55
1:sR:847:A:H2'	1:sR:848:C:O4'	2.06	0.55
1:sR:1392:U:H2'	1:sR:1393:C:C6	2.41	0.55
1:sR:1701:A:H3'	1:sR:1702:A:O4'	2.07	0.55
5:s3:69:LEU:N	5:s3:69:LEU:HD22	2.21	0.55
8:s6:199:GLN:HG2	8:s6:202:ARG:HE	1.72	0.55
9:s7:74:GLN:HG2	9:s7:131:PHE:CD2	2.41	0.55
11:s9:79:ARG:O	11:s9:83:VAL:HG22	2.07	0.55
11:s9:96:VAL:O	11:s9:99:LEU:HD12	2.07	0.55
13:c1:130:PRO:HB3	13:c1:136:ARG:CD	2.37	0.55
15:c4:18:ARG:HE	15:c4:82:LYS:HD2	1.71	0.55
16:c5:53:PRO:HB2	16:c5:57:MET:HG3	1.88	0.55
18:c7:20:TYR:O	18:c7:24:LEU:HG	2.06	0.55
24:d3:17:VAL:HG12	24:d3:20:ARG:NH2	2.22	0.55
72:d5:49:ARG:NH1	72:d5:53:GLU:OE1	2.40	0.55
1:A:848:C:H2'	1:A:849:C:H6	1.72	0.55
1:A:916:U:H3	15:P:41:ARG:NH1	2.04	0.55
1:A:929:A:C8	15:P:123:SER:HB3	2.42	0.55
1:A:1201:G:O2'	80:A:2151:OHX:N6	2.39	0.55
1:A:1241:G:C1'	16:Q:79:HIS:HD1	2.19	0.55
19:T:146:ALA:CB	70:i:68:ARG:HE	2.18	0.55
20:U:54:PHE:O	20:U:58:ALA:HB2	2.05	0.55
21:V:67:THR:HG21	76:e:40:ARG:HB2	1.89	0.55
26:DB:26:VAL:HG12	26:DB:89:VAL:HG21	1.88	0.55
35:1:597:G:H2'	35:1:598:A:H8	1.70	0.55
35:1:945:C:H2'	35:1:946:U:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:952:A:N3	35:1:1114:U:O2'	2.34	0.55
35:1:2723:U:H2'	35:1:2724:U:C6	2.40	0.55
35:1:2768:U:H2'	35:1:2769:A:C8	2.42	0.55
35:1:2904:U:H2'	35:1:2905:U:H6	1.71	0.55
35:1:3042:U:H5"	56:6:48:ARG:HH21	1.71	0.55
80:1:3550:OHX:N3	36:3:87:G:OP2	2.40	0.55
36:3:121:U:OP2	39:m:265:TYR:OH	2.15	0.55
33:k:169:THR:HG22	33:k:171:LEU:H	1.71	0.55
45:s:89:TYR:HB3	45:s:169:ALA:CB	2.36	0.55
51:y:60:PRO:HG3	51:y:144:ARG:HA	1.88	0.55
59:AG:75:HIS:HB3	59:AG:80:VAL:HG12	1.89	0.55
61:AI:86:ARG:O	61:AI:90:ARG:HD2	2.06	0.55
35:AR:1239:C:N4	35:AR:1249:G:H1	2.04	0.55
35:AR:1686:U:P	55:CW:42:LYS:HZ1	2.30	0.55
35:AR:1806:A:H5'	60:DI:76:TYR:HD1	1.72	0.55
35:AR:2103:U:H4'	52:CT:85:ARG:HH21	1.71	0.55
35:AR:2659:G:H4'	35:AR:2751:G:O2'	2.06	0.55
35:AR:2767:U:O2'	68:DQ:30:ALA:O	2.20	0.55
37:AT:113:U:H5"	65:DN:7:PHE:HB3	1.88	0.55
40:CH:157:GLN:N	40:CH:157:GLN:OE1	2.37	0.55
66:DO:93:LYS:HD2	66:DO:102:ARG:HD3	1.88	0.55
69:DR:75:ALA:O	69:DR:79:VAL:HG13	2.05	0.55
72:a:38:HIS:NE2	72:a:69:LEU:O	2.38	0.55
75:d:8:THR:OG1	75:d:56:LEU:HB2	2.06	0.55
79:h:225:LEU:O	79:h:228:LYS:HG3	2.06	0.55
1:sR:1533:C:H4'	1:sR:1539:G:C6	2.41	0.55
79:Rb:69:GLN:HG2	79:Rb:111:MET:HG2	1.89	0.55
2:s0:76:ILE:HB	2:s0:123:VAL:HG13	1.88	0.55
4:s2:99:LYS:HA	4:s2:117:THR:HA	1.88	0.55
4:s2:125:ILE:O	4:s2:129:ILE:HG13	2.07	0.55
7:s5:192:GLU:OE1	72:d5:63:SER:OG	2.23	0.55
7:s5:206:SER:N	7:s5:211:ILE:HD11	2.20	0.55
9:s7:95:GLU:OE1	9:s7:96:ARG:N	2.39	0.55
20:c9:117:SER:HB3	20:c9:123:ARG:HB3	1.88	0.55
24:d3:107:PHE:CD1	24:d3:114:LYS:HD3	2.41	0.55
1:A:1238:A:H2'	1:A:1239:U:O4'	2.06	0.55
1:A:1445:G:C4	78:g:91:ILE:HB	2.42	0.55
1:A:1564:U:H2'	1:A:1565:C:H6	1.69	0.55
3:C:92:GLN:C	3:C:95:ASN:HB2	2.31	0.55
6:F:200:ARG:NH2	6:F:202:ASP:OD2	2.39	0.55
9:I:153:LEU:HD12	9:I:184:GLU:OE2	2.06	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:48:THR:HG21	10:J:54:LYS:HB2	1.87	0.55
13:M:56:LYS:HG2	13:M:57:LYS:HG2	1.87	0.55
16:Q:28:MET:HG2	16:Q:32:ASP:HB2	1.89	0.55
22:W:12:TYR:O	22:W:12:TYR:CG	2.59	0.55
22:W:71:ARG:HB2	22:W:83:TRP:CE3	2.41	0.55
24:Y:53:VAL:HG13	24:Y:72:VAL:HB	1.88	0.55
25:Z:21:LYS:HD3	25:Z:21:LYS:N	2.20	0.55
28:AB:27:LYS:HD3	35:1:936:A:OP2	2.06	0.55
29:AC:15:LYS:NZ	35:1:953:G:OP1	2.37	0.55
33:CE:4:ARG:NH1	33:CE:6:TYR:O	2.39	0.55
35:1:148:G:OP2	48:v:4:TYR:OH	2.20	0.55
35:1:1129:A:N6	44:r:115:MET:HE1	2.21	0.55
35:1:3033:A:H2'	35:1:3034:C:H6	1.71	0.55
35:1:3128:G:OP2	80:1:3631:OHX:N2	2.40	0.55
80:1:3404:OHX:N6	63:AK:46:SER:OG	2.40	0.55
36:3:7:G:O3'	39:m:33:ARG:NH2	2.39	0.55
37:4:7:U:H2'	37:4:8:C:C6	2.42	0.55
43:q:88:TYR:CZ	43:q:184:LYS:HD2	2.40	0.55
45:s:16:LYS:HG3	45:s:130:VAL:HG11	1.87	0.55
51:y:64:VAL:HG22	51:y:96:PHE:CE1	2.42	0.55
55:5:19:VAL:C	55:5:22:PRO:HD2	2.32	0.55
35:AR:226:C:H2'	35:AR:227:G:O4'	2.06	0.55
35:AR:1232:C:C5	35:AR:1261:G:H2'	2.38	0.55
35:AR:2647:A:H4'	44:CL:22:TYR:HB3	1.88	0.55
35:AR:3232:G:H2'	35:AR:3233:C:C6	2.41	0.55
39:CG:21:ARG:O	39:CG:25:GLU:HG3	2.06	0.55
44:CL:26:VAL:HG11	44:CL:96:VAL:HG21	1.89	0.55
54:CV:102:ARG:O	54:CV:106:LEU:HD12	2.06	0.55
56:CX:22:ILE:HG22	56:CX:33:ASN:HB2	1.89	0.55
57:CY:60:LYS:CE	57:CY:63:ILE:HD13	2.37	0.55
61:DJ:24:LEU:HB3	61:DJ:51:ILE:HG13	1.87	0.55
68:DQ:93:LEU:HD23	68:DQ:93:LEU:H	1.71	0.55
9:s7:76:LYS:HA	9:s7:79:ARG:HG3	1.89	0.55
11:s9:73:GLY:O	11:s9:77:ILE:HD12	2.07	0.55
12:c0:29:GLN:NE2	12:c0:31:LYS:O	2.32	0.55
20:c9:100:ILE:HD12	20:c9:100:ILE:H	1.72	0.55
73:d6:88:SER:O	73:d6:92:ARG:HG3	2.07	0.55
1:A:113:U:H4'	1:A:115:G:OP1	2.07	0.55
1:A:256:A:H2'	1:A:257:A:O4'	2.07	0.55
1:A:545:A:N1	1:A:593:U:O2'	2.35	0.55
1:A:553:G:OP2	1:A:554:C:O2'	2.21	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:711:U:H5'	1:A:729:G:O6	2.05	0.55
1:A:820:U:H3'	1:A:821:U:H5"	1.89	0.55
1:A:875:G:OP1	3:C:158:SER:OG	2.21	0.55
1:A:1545:A:H2'	1:A:1546:G:C8	2.42	0.55
1:A:1791:A:H3'	73:b:8:ASN:HB2	1.87	0.55
2:B:140:ASN:OD1	4:D:62:PRO:HD3	2.06	0.55
3:C:164:ILE:HG22	3:C:168:ILE:CD1	2.36	0.55
8:H:21:GLU:OE2	8:H:21:GLU:N	2.25	0.55
11:K:153:GLU:HA	11:K:156:ILE:HD11	1.89	0.55
16:Q:130:ARG:NH2	70:i:65:THR:O	2.39	0.55
28:DC:69:TRP:CE3	46:CN:64:LYS:HA	2.41	0.55
35:1:602:A:H2'	35:1:603:A:C8	2.42	0.55
35:1:1354:G:C5	40:n:9:TRP:CE3	2.95	0.55
35:1:1709:C:H2'	35:1:1710:C:C6	2.42	0.55
35:1:3165:A:H2'	35:1:3166:C:C6	2.42	0.55
37:4:113:U:H5"	65:AM:7:PHE:HB3	1.87	0.55
39:m:253:PHE:O	39:m:253:PHE:CG	2.59	0.55
44:r:65:LEU:HD11	44:r:91:VAL:HG12	1.89	0.55
47:u:55:ARG:HD2	47:u:78:THR:HG23	1.89	0.55
52:z:41:ILE:O	52:z:45:VAL:HG12	2.07	0.55
27:9:112:ASP:H	27:9:115:ARG:HB3	1.71	0.55
35:AR:892:U:OP2	80:AR:3418:OHX:N6	2.40	0.55
35:AR:1564:U:H2'	35:AR:1565:G:O4'	2.07	0.55
35:AR:1683:A:OP2	55:CW:85:LYS:NZ	2.40	0.55
35:AR:2311:G:OP2	80:AR:3479:OHX:N5	2.39	0.55
35:AR:2407:C:H2'	35:AR:2408:U:C6	2.42	0.55
35:AR:2609:A:H2'	35:AR:2610:G:C8	2.41	0.55
43:CK:36:LYS:HB3	43:CK:78:MET:HE1	1.88	0.55
43:CK:90:MET:HB2	43:CK:144:ILE:HG23	1.88	0.55
51:CS:158:HIS:H	51:CS:186:VAL:CG1	2.20	0.55
52:CT:99:LEU:HD23	52:CT:103:ARG:HG3	1.88	0.55
54:CV:111:ALA:O	54:CV:115:LYS:HG2	2.06	0.55
63:DL:28:HIS:HD2	63:DL:31:LYS:H	1.53	0.55
79:h:262:VAL:CG1	79:h:271:VAL:HB	2.37	0.55
1:sR:793:A:H3'	1:sR:794:U:H5'	1.88	0.55
2:s0:7:PHE:CZ	2:s0:184:LEU:HD11	2.41	0.55
7:s5:113:ILE:HG21	7:s5:190:ILE:HG12	1.88	0.55
7:s5:143:ARG:N	7:s5:218:GLU:OE2	2.37	0.55
7:s5:213:LYS:O	7:s5:217:LEU:N	2.40	0.55
18:c7:29:GLN:HA	18:c7:32:LYS:HD3	1.89	0.55
21:d0:44:ASN:O	21:d0:44:ASN:ND2	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:856:A:C8	9:I:64:VAL:HG21	2.42	0.55
1:A:1132:A:H2'	1:A:1133:A:H8	1.71	0.55
1:A:1483:A:H2	1:A:1607:G:H1'	1.72	0.55
1:A:1623:C:H2'	1:A:1624:C:H6	1.70	0.55
9:I:17:GLU:HG3	9:I:46:ILE:HB	1.87	0.55
9:I:166:LEU:HA	9:I:169:PHE:CD2	2.41	0.55
10:J:91:VAL:O	10:J:94:ASN:ND2	2.37	0.55
11:K:75:ALA:O	11:K:79:ARG:HG2	2.07	0.55
15:P:17:ALA:N	15:P:79:VAL:HG21	2.22	0.55
18:S:73:LEU:O	18:S:77:GLU:HG2	2.07	0.55
21:V:24:ILE:HD11	21:V:91:ILE:HG12	1.88	0.55
26:DB:18:TYR:HE1	26:DB:47:GLU:HG3	1.71	0.55
30:DE:24:THR:CG2	30:DE:91:SER:HB3	2.37	0.55
30:DE:70:PHE:HE1	30:DE:72:GLY:HA3	1.72	0.55
35:1:266:A:H2'	62:AJ:30:LYS:HE3	1.88	0.55
35:1:429:U:H4'	59:AG:88:ASN:O	2.06	0.55
35:1:1764:U:P	52:z:43:LYS:HZ1	2.30	0.55
35:1:2352:A:H2'	35:1:2353:G:C8	2.42	0.55
35:1:2631:U:OP1	35:1:2757:U:O2'	2.22	0.55
35:1:3282:U:H2'	35:1:3283:U:O4'	2.07	0.55
42:p:172:LYS:HG3	42:p:173:MET:HE2	1.88	0.55
43:q:41:ILE:HD13	43:q:71:VAL:CG2	2.35	0.55
43:q:49:ASN:O	43:q:51:GLN:NE2	2.40	0.55
46:t:165:SER:O	46:t:169:THR:HG23	2.07	0.55
35:AR:565:U:H2'	35:AR:566:G:C8	2.42	0.55
35:AR:2537:U:C5'	3:s1:226:GLY:HA2	2.34	0.55
35:AR:2916:U:H5	35:AR:2935:U:HO2'	1.54	0.55
39:CG:44:TYR:O	54:CV:33:VAL:HG11	2.07	0.55
43:CK:12:VAL:HB	43:CK:51:GLN:HA	1.88	0.55
52:CT:163:ARG:HD3	1:sR:813:U:C2	2.42	0.55
56:CX:126:TRP:O	56:CX:129:VAL:HG12	2.05	0.55
79:h:178:VAL:CG2	79:h:202:LEU:HD11	2.37	0.55
1:sR:953:G:C4'	14:c3:114:ARG:HH22	2.19	0.55
1:sR:1234:A:H2'	1:sR:1235:C:C5	2.42	0.55
79:Rb:197:SER:HB3	79:Rb:217:ASP:CB	2.35	0.55
79:Rb:216:LYS:HA	79:Rb:239:GLU:HB2	1.88	0.55
2:s0:184:LEU:HA	22:d1:43:GLY:O	2.06	0.55
2:s0:198:MET:HG3	2:s0:199:PRO:HD2	1.89	0.55
5:s3:139:SER:HA	5:s3:149:ALA:HA	1.89	0.55
7:s5:48:PHE:CE2	7:s5:67:PRO:HA	2.42	0.55
72:d5:88:ILE:O	72:d5:104:ALA:HB2	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:350:U:H5”	1:A:352:A:H5’	1.88	0.55
2:B:185:ARG:H	22:W:45:ALA:H	1.55	0.55
3:C:119:THR:HG23	3:C:143:THR:HG21	1.87	0.55
4:D:59:HIS:HA	22:W:15:ARG:HE	1.72	0.55
8:H:176:GLN:HG3	8:H:177:ARG:H	1.71	0.55
21:V:20:ILE:CD1	21:V:21:LYS:H	2.13	0.55
31:CD:44:ILE:HG12	31:CD:87:PHE:HE1	1.72	0.55
33:CE:173:GLN:HG2	35:AR:3313:U:H4’	1.89	0.55
33:CE:270:ARG:NH2	35:AR:3090:U:OP1	2.39	0.55
33:CE:346:THR:HB	33:CE:351:LEU:HD11	1.89	0.55
35:1:911:C:H42	31:j:3:ARG:HD3	1.72	0.55
35:1:1110:U:O4	80:1:3487:OHX:N2	2.40	0.55
35:1:1949:G:H2’	35:1:1950:U:C6	2.41	0.55
35:1:3051:U:C2	35:1:3052:G:C8	2.95	0.55
33:k:168:LYS:HB3	33:k:319:ASN:ND2	2.22	0.55
49:w:159:LYS:O	49:w:162:VAL:HG22	2.05	0.55
55:5:59:ASP:OD1	55:5:61:THR:OG1	2.24	0.55
61:AI:27:GLU:HG2	61:AI:31:LEU:HD11	1.87	0.55
35:AR:138:U:H2’	35:AR:139:G:C8	2.41	0.55
35:AR:1046:A:H2’	35:AR:1049:C:C5	2.42	0.55
35:AR:1659:U:H2’	35:AR:1660:C:C6	2.41	0.55
35:AR:2655:U:H4’	35:AR:2656:A:O4’	2.06	0.55
35:AR:2780:A:H2’	35:AR:2781:U:C6	2.42	0.55
35:AR:2883:U:H2’	35:AR:2884:C:H6	1.72	0.55
40:CH:28:GLN:O	40:CH:28:GLN:HG3	2.06	0.55
42:CJ:153:ILE:O	42:CJ:179:ILE:HA	2.07	0.55
43:CK:41:ILE:HG23	43:CK:43:VAL:HG13	1.88	0.55
54:CV:56:PHE:CZ	54:CV:78:LYS:HG3	2.42	0.55
58:CZ:139:ILE:HD11	58:CZ:141:TYR:CD2	2.42	0.55
79:h:19:TRP:O	79:h:38:ARG:N	2.38	0.55
1:sR:637:C:OP1	23:d2:32:LYS:HG3	2.07	0.55
79:Rb:19:TRP:NE1	79:Rb:306:THR:O	2.40	0.55
79:Rb:299:GLN:O	79:Rb:314:GLN:HB2	2.05	0.55
12:c0:54:TYR:HD2	12:c0:72:GLY:HA2	1.71	0.55
24:d3:100:ASP:O	24:d3:102:VAL:HG13	2.07	0.55
1:A:919:A:OP1	15:P:18:ARG:NH1	2.40	0.55
1:A:1182:U:O2	1:A:1184:A:H8	1.90	0.55
1:A:1438:G:H4’	5:E:178:ARG:O	2.07	0.55
1:A:1545:A:H2’	1:A:1546:G:H8	1.72	0.55
3:C:129:THR:HB	3:C:179:SER:O	2.07	0.55
16:Q:17:TYR:HB2	16:Q:112:LEU:HD12	1.88	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:U:109:GLU:HG2	20:U:114:VAL:O	2.06	0.55
21:V:68:ARG:CZ	21:V:77:LYS:HA	2.37	0.55
28:DC:59:ARG:HH22	68:DQ:38:GLN:NE2	2.04	0.55
35:1:700:C:OP1	46:t:65:TYR:OH	2.17	0.55
35:1:1345:G:O6	80:1:3473:OHX:N2	2.40	0.55
35:1:1615:C:H2'	35:1:1616:U:C6	2.41	0.55
35:1:3182:G:OP1	49:w:160:ARG:NH2	2.40	0.55
35:1:3192:U:H2'	35:1:3193:C:C6	2.41	0.55
80:1:3404:OHX:N2	63:AK:44:THR:O	2.40	0.55
38:l:99:MET:HG2	38:l:100:PHE:N	2.20	0.55
39:m:254:LYS:N	39:m:254:LYS:HD2	2.22	0.55
43:q:44:THR:HG21	47:u:12:TRP:CH2	2.41	0.55
44:r:73:ASN:O	44:r:77:THR:HG23	2.07	0.55
46:t:89:TYR:CZ	46:t:93:ILE:HD11	2.42	0.55
35:AR:980:A:H2'	35:AR:981:U:N1	2.22	0.55
35:AR:1924:U:OP1	67:DP:25:LYS:NZ	2.40	0.55
35:AR:2897:A:H2'	35:AR:2899:C:H5"	1.88	0.55
39:CG:217:GLU:O	39:CG:220:SER:OG	2.23	0.55
41:CI:137:GLY:CA	41:CI:233:GLU:HA	2.37	0.55
42:CJ:111:LYS:O	42:CJ:115:ALA:HB2	2.07	0.55
65:DN:28:ARG:HA	65:DN:33:ASN:ND2	2.21	0.55
68:DQ:100:LYS:O	68:DQ:102:GLN:HG3	2.07	0.55
71:p0:27:VAL:HB	71:p0:188:VAL:HG23	1.89	0.55
73:b:43:ASN:HA	73:b:66:LYS:CB	2.37	0.55
1:sR:30:G:H2'	1:sR:31:C:C6	2.41	0.55
1:sR:592:A:OP1	11:s9:39:LYS:HG3	2.07	0.55
1:sR:1312:A:OP1	18:c7:2:GLY:N	2.39	0.55
2:s0:105:GLY:O	2:s0:109:ASN:HB3	2.08	0.55
3:s1:197:ILE:HD11	3:s1:210:ILE:CG2	2.37	0.55
6:s4:31:PRO:HA	6:s4:81:THR:HB	1.89	0.55
6:s4:88:ASP:HB2	6:s4:101:LEU:HD12	1.89	0.55
23:d2:102:VAL:HB	23:d2:113:HIS:HB3	1.89	0.55
25:d4:29:HIS:CE1	25:d4:34:ASN:HA	2.42	0.55
25:d4:83:LYS:O	25:d4:91:LEU:HD11	2.06	0.55
72:d5:48:ASP:HB3	72:d5:52:LYS:HE2	1.88	0.55
72:d5:84:GLU:OE2	72:d5:91:PRO:HG3	2.07	0.55
1:A:599:A:H2'	1:A:600:U:H6	1.70	0.54
1:A:1120:U:H2'	1:A:1121:C:C6	2.42	0.54
1:A:1450:U:OP2	80:A:1922:OHX:N2	2.41	0.54
5:E:168:ILE:HG21	5:E:187:LYS:HE3	1.88	0.54
6:F:95:THR:HG22	25:Z:16:PRO:HG2	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:163:ASP:OD1	9:I:163:ASP:N	2.39	0.54
14:O:33:VAL:HA	14:O:36:GLN:OE1	2.06	0.54
15:P:12:GLN:HB3	15:P:77:THR:OG1	2.07	0.54
17:R:87:LYS:HD2	17:R:87:LYS:N	2.21	0.54
20:U:50:ALA:H	20:U:53:TRP:HD1	1.54	0.54
28:AB:13:GLY:HA2	35:1:943:U:H3'	1.88	0.54
33:CE:250:ALA:HB3	35:AR:2880:U:H1'	1.89	0.54
35:1:1471:U:H4'	52:z:3:ASN:HD22	1.72	0.54
35:1:2683:U:H2'	35:1:2684:C:H6	1.71	0.54
35:1:2696:A:H2'	35:1:2697:A:C8	2.42	0.54
35:1:3230:G:O6	80:1:3580:OHX:N6	2.40	0.54
35:1:3251:U:H2'	35:1:3252:G:C8	2.41	0.54
45:s:14:ILE:HG22	45:s:131:MET:CE	2.37	0.54
35:AR:172:G:H3'	35:AR:173:G:H5"	1.89	0.54
35:AR:600:G:N7	80:AR:3623:OHX:N4	2.54	0.54
35:AR:1098:A:O2'	54:CV:130:ARG:O	2.18	0.54
35:AR:1561:G:O6	35:AR:1578:C:N4	2.40	0.54
35:AR:2160:G:H2'	35:AR:2161:G:C8	2.42	0.54
38:CF:99:MET:HE2	38:CF:103:THR:H	1.71	0.54
38:CF:359:LEU:HA	53:CU:8:GLN:NE2	2.22	0.54
41:CI:173:LEU:HB3	41:CI:178:ILE:HB	1.88	0.54
52:CT:92:GLN:O	52:CT:96:ILE:HG12	2.07	0.54
56:CX:10:LYS:HZ3	56:CX:13:ILE:HG22	1.71	0.54
32:DF:54:GLU:H	32:DF:54:GLU:CD	2.13	0.54
1:sR:1533:C:H3'	72:d5:74:SER:OG	2.08	0.54
1:sR:1592:A:H2'	1:sR:1593:A:C8	2.42	0.54
1:sR:1662:G:H2'	1:sR:1663:G:H8	1.72	0.54
79:Rb:81:LEU:HD23	79:Rb:122:ILE:HD13	1.88	0.54
79:Rb:225:LEU:HD23	79:Rb:225:LEU:H	1.72	0.54
2:s0:101:ARG:HD2	2:s0:102:PHE:H	1.70	0.54
2:s0:198:MET:HG2	2:s0:200:ASP:HB2	1.88	0.54
3:s1:35:PRO:CB	3:s1:231:LEU:HD21	2.36	0.54
9:s7:16:LEU:H	9:s7:16:LEU:HD12	1.72	0.54
10:s8:38:ILE:CD1	10:s8:80:GLY:HA2	2.37	0.54
15:c4:77:THR:O	15:c4:110:LEU:HD23	2.06	0.54
1:A:1:U:C4	11:K:54:ARG:HD2	2.43	0.54
1:A:5:U:H2'	1:A:6:G:H8	1.73	0.54
1:A:386:G:P	10:J:25:ARG:HH22	2.29	0.54
1:A:452:A:H3'	1:A:453:U:C6	2.42	0.54
1:A:486:G:H2'	1:A:487:G:O4'	2.07	0.54
1:A:953:G:H2'	1:A:954:G:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1277:G:H2'	1:A:1278:G:O4'	2.07	0.54
1:A:1404:C:H2'	1:A:1405:G:H8	1.73	0.54
4:D:116:LYS:HE3	4:D:127:ALA:HB3	1.89	0.54
13:M:34:TRP:HH2	13:M:36:LYS:HD3	1.71	0.54
14:O:87:ASP:OD1	14:O:88:LEU:N	2.40	0.54
20:U:121:GLY:O	20:U:122:ARG:HG3	2.07	0.54
26:DB:41:ALA:O	26:DB:43:VAL:HG13	2.07	0.54
35:1:534:U:P	53:0:132:THR:HG21	2.47	0.54
35:1:627:U:H4'	35:1:1399:A:O2'	2.06	0.54
35:1:2169:G:O6	80:1:4132:OHX:N3	2.40	0.54
35:1:2574:G:H2'	35:1:2575:G:C8	2.43	0.54
39:m:41:LYS:HB2	54:2:68:THR:O	2.07	0.54
40:n:137:ASP:O	40:n:141:VAL:HG22	2.07	0.54
50:x:33:ALA:HB1	50:x:117:ILE:HG12	1.89	0.54
56:6:4:ASN:H	56:6:40:LYS:NZ	2.04	0.54
67:AO:12:ARG:HG2	67:AO:15:ARG:NH2	2.21	0.54
35:AR:59:G:H4'	35:AR:60:A:H4'	1.88	0.54
35:AR:1790:G:O6	80:AR:3676:OHX:N4	2.40	0.54
35:AR:2908:G:N7	80:AR:3404:OHX:N4	2.55	0.54
84:AR:4255:VDU:C19	84:AR:4255:VDU:C20	2.85	0.54
53:CU:12:ARG:HB3	53:CU:24:LEU:HD23	1.89	0.54
72:a:63:SER:O	72:a:67:ASP:HB2	2.08	0.54
79:h:133:VAL:HG22	79:h:142:ALA:HB3	1.88	0.54
1:sR:523:G:H5'	25:d4:60:PHE:O	2.06	0.54
1:sR:525:A:H2'	1:sR:526:A:H8	1.72	0.54
1:sR:568:G:O5'	24:d3:90:ASP:HB2	2.07	0.54
1:sR:607:G:H5'	1:sR:613:G:N2	2.21	0.54
1:sR:1564:U:H2'	1:sR:1565:C:H6	1.72	0.54
1:sR:1783:C:H2'	1:sR:1784:C:H6	1.73	0.54
1:sR:1791:A:H5"	73:d6:8:ASN:HB3	1.89	0.54
79:Rb:214:ALA:O	79:Rb:240:VAL:HG13	2.08	0.54
79:Rb:281:TYR:O	80:Rb:401:OHX:N1	2.40	0.54
14:c3:120:SER:O	14:c3:124:ARG:HG3	2.06	0.54
17:c6:93:HIS:O	17:c6:97:VAL:HG12	2.06	0.54
23:d2:24:GLN:NE2	74:d7:4:VAL:HA	2.22	0.54
73:d6:95:ARG:O	73:d6:95:ARG:HG3	2.06	0.54
75:d8:12:VAL:HG12	75:d8:30:VAL:HG12	1.89	0.54
1:A:855:A:C2	1:A:857:U:H1'	2.42	0.54
1:A:932:U:OP1	3:C:155:TYR:OH	2.26	0.54
1:A:1012:U:O3'	31:j:248:GLY:HA2	2.07	0.54
1:A:1172:G:H4'	1:A:1569:A:H2	1.73	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1347:U:OP1	21:V:90:TYR:OH	2.25	0.54
5:E:48:VAL:HG23	5:E:84:ILE:HD11	1.90	0.54
7:G:34:GLN:HA	7:G:37:GLN:HE22	1.72	0.54
11:K:107:ARG:HH11	11:K:112:GLN:NE2	2.05	0.54
11:K:161:THR:O	11:K:163:PRO:HD3	2.06	0.54
16:Q:33:PHE:CE1	16:Q:112:LEU:HD13	2.42	0.54
20:U:64:HIS:O	20:U:68:ARG:HD2	2.06	0.54
25:Z:127:LYS:HZ2	25:Z:131:ARG:HG3	1.72	0.54
30:AD:10:ILE:O	30:AD:14:LEU:HD12	2.07	0.54
33:CE:105:VAL:HG21	33:CE:148:LEU:HD21	1.88	0.54
35:1:978:G:OP2	80:1:3593:OHX:N5	2.41	0.54
35:1:1278:A:HO2'	35:1:1279:C:H6	1.54	0.54
35:1:1579:C:H2'	35:1:1580:A:C8	2.43	0.54
35:1:2574:G:H2'	35:1:2575:G:H8	1.72	0.54
39:m:282:ARG:O	39:m:286:VAL:HG13	2.06	0.54
48:v:183:THR:CG2	48:v:187:ARG:HB2	2.38	0.54
50:x:85:ALA:O	50:x:89:LYS:HG3	2.07	0.54
35:AR:123:A:C6	35:AR:150:A:C5	2.96	0.54
35:AR:1560:G:O6	58:CZ:33:ARG:NH1	2.41	0.54
35:AR:2761:G:H1'	35:AR:2800:G:H21	1.72	0.54
46:CN:185:LYS:HA	46:CN:188:ARG:HG2	1.90	0.54
56:CX:93:LEU:HD23	56:CX:93:LEU:H	1.72	0.54
72:a:79:ALA:O	72:a:83:LEU:HD12	2.07	0.54
79:h:214:ALA:HB1	79:h:240:VAL:HB	1.89	0.54
1:sR:852:C:H2'	1:sR:853:G:H8	1.72	0.54
1:sR:887:A:H2'	1:sR:888:U:C6	2.43	0.54
79:Rb:89:LEU:O	79:Rb:103:PHE:HD1	1.89	0.54
5:s3:211:PRO:HG3	18:c7:19:ARG:HB2	1.89	0.54
6:s4:45:ILE:HB	6:s4:80:THR:HG22	1.88	0.54
8:s6:17:GLU:CD	8:s6:17:GLU:H	2.15	0.54
9:s7:29:ASN:OD1	9:s7:29:ASN:N	2.37	0.54
10:s8:117:TYR:CD2	10:s8:150:ALA:HA	2.43	0.54
11:s9:23:ARG:NE	11:s9:27:GLU:OE2	2.34	0.54
11:s9:104:PHE:O	11:s9:147:MET:HE1	2.07	0.54
12:c0:24:LYS:O	12:c0:25:LYS:C	2.50	0.54
13:c1:71:LEU:HB3	13:c1:88:ARG:NH1	2.22	0.54
14:c3:30:SER:O	14:c3:33:VAL:HG22	2.07	0.54
18:c7:71:PHE:CZ	18:c7:74:GLN:HG3	2.42	0.54
75:d8:19:THR:HG22	75:d8:20:GLY:H	1.72	0.54
1:A:29:U:H2'	1:A:30:G:C8	2.42	0.54
1:A:119:A:H1'	1:A:397:A:C4	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1264:G:H2'	1:A:1265:G:O4'	2.07	0.54
1:A:1330:G:N2	5:E:204:ASP:OD2	2.40	0.54
1:A:1783:C:H2'	1:A:1784:C:C6	2.42	0.54
6:F:247:SER:O	6:F:251:GLU:HG2	2.06	0.54
8:H:22:HIS:CE1	33:k:300:ARG:HD2	2.43	0.54
11:K:107:ARG:HH11	11:K:112:GLN:HE21	1.54	0.54
17:R:12:LYS:H	17:R:83:GLN:HE22	1.53	0.54
25:Z:64:PHE:CD1	25:Z:65:GLY:N	2.75	0.54
28:DC:48:TYR:CG	46:CN:6:ASN:HB2	2.42	0.54
31:CD:101:VAL:CG1	31:CD:165:VAL:HG22	2.26	0.54
35:1:268:A:C4	48:v:12:ARG:HG2	2.43	0.54
35:1:415:G:OP2	80:1:4178:OHX:N4	2.40	0.54
35:1:536:U:H2'	35:1:537:A:H8	1.73	0.54
35:1:629:U:H2'	35:1:630:A:C8	2.42	0.54
35:1:1095:U:O2	54:2:128:LEU:N	2.40	0.54
35:1:1176:C:H2'	35:1:1177:G:N2	2.22	0.54
35:1:1723:A:P	52:z:103:ARG:HH22	2.30	0.54
35:1:1786:G:H2'	35:1:1787:A:C8	2.42	0.54
35:1:2710:C:H2'	35:1:2711:C:H6	1.72	0.54
35:1:2904:U:H2'	35:1:2905:U:C6	2.41	0.54
33:k:238:LEU:HB2	33:k:246:LEU:HB2	1.90	0.54
38:l:125:ALA:O	38:l:129:THR:HG23	2.07	0.54
51:y:70:ALA:O	51:y:73:GLN:HB2	2.06	0.54
54:2:55:LYS:HG3	54:2:56:PHE:N	2.22	0.54
60:AH:79:SER:HB3	60:AH:80:ARG:HE	1.72	0.54
35:AR:110:G:OP2	46:CN:73:ARG:NH2	2.40	0.54
35:AR:952:A:H4'	35:AR:968:G:N2	2.23	0.54
35:AR:1063:G:OP2	35:AR:1097:G:H3'	2.08	0.54
35:AR:1314:C:H5'	49:CQ:17:GLY:HA3	1.89	0.54
35:AR:1867:A:H2'	35:AR:1868:G:H8	1.72	0.54
39:CG:86:TYR:CE2	39:CG:247:ILE:HA	2.43	0.54
44:CL:76:MET:SD	44:CL:148:VAL:HG12	2.48	0.54
48:CP:190:THR:O	48:CP:194:GLN:HG3	2.08	0.54
55:CW:22:PRO:HB2	55:CW:28:PHE:CB	2.35	0.54
72:a:60:VAL:CG2	72:a:101:TYR:HB2	2.38	0.54
1:sR:152:U:C2	1:sR:163:G:N2	2.75	0.54
1:sR:190:C:O2'	1:sR:191:C:O5'	2.24	0.54
1:sR:294:C:H5'	6:s4:133:LYS:HZ2	1.72	0.54
1:sR:482:U:H2'	1:sR:483:A:C8	2.42	0.54
1:sR:1460:A:C6	16:c5:128:HIS:CE1	2.96	0.54
79:Rb:13:LEU:HD21	79:Rb:54:PHE:HB3	1.88	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Rb:104:VAL:O	79:Rb:134:TRP:HH2	1.91	0.54
79:Rb:256:THR:HG23	79:Rb:258:THR:H	1.72	0.54
2:s0:114:SER:O	2:s0:114:SER:OG	2.22	0.54
5:s3:178:ARG:NH1	5:s3:178:ARG:HG2	2.21	0.54
16:c5:87:PRO:HA	16:c5:90:ILE:HG13	1.90	0.54
72:d5:52:LYS:C	72:d5:53:GLU:OE2	2.50	0.54
1:A:486:G:C2	1:A:487:G:H1'	2.41	0.54
1:A:1183:A:N1	16:Q:99:GLY:HA3	2.22	0.54
1:A:1546:G:H2'	1:A:1547:A:H8	1.72	0.54
3:C:229:MET:HE1	3:C:232:HIS:CD2	2.43	0.54
7:G:44:ASN:HD21	7:G:70:VAL:HG22	1.71	0.54
10:J:24:LYS:HA	10:J:28:GLU:OE2	2.07	0.54
15:P:18:ARG:HB2	15:P:29:HIS:O	2.08	0.54
20:U:54:PHE:HE1	20:U:104:VAL:CG2	2.19	0.54
31:CD:45:VAL:HG23	31:CD:88:ILE:HD13	1.90	0.54
33:CE:53:MET:HG2	33:CE:77:THR:HG22	1.90	0.54
35:1:994:G:H3'	54:2:13:TYR:HD2	1.71	0.54
35:1:999:G:O2'	35:1:1000:C:H5'	2.08	0.54
35:1:1232:C:H2'	35:1:1233:G:O4'	2.07	0.54
35:1:1718:G:H2'	35:1:1719:G:H8	1.72	0.54
35:1:2153:U:OP1	31:j:246:LEU:HB2	2.06	0.54
35:1:3045:G:O2'	33:k:275:ARG:NH1	2.39	0.54
35:1:3082:C:H2'	35:1:3083:G:C8	2.43	0.54
48:v:183:THR:HG22	48:v:187:ARG:HB2	1.89	0.54
70:i:84:LYS:O	70:i:85:SER:OG	2.22	0.54
35:AR:249:U:H4'	35:AR:250:U:O5'	2.08	0.54
35:AR:507:U:H2'	35:AR:508:U:C6	2.42	0.54
35:AR:619:A:H4'	35:AR:620:U:H5'	1.89	0.54
35:AR:728:G:H2'	35:AR:729:C:H6	1.72	0.54
35:AR:1015:U:H3'	35:AR:1016:C:H5"	1.88	0.54
35:AR:2430:A:H2'	35:AR:2431:C:C6	2.42	0.54
38:CF:126:ILE:HD11	38:CF:233:LEU:HD23	1.90	0.54
42:CJ:39:ALA:O	42:CJ:40:VAL:C	2.51	0.54
73:b:73:TYR:HB2	73:b:78:ALA:HB2	1.90	0.54
73:b:75:VAL:HG12	73:b:79:ILE:HG13	1.89	0.54
76:e:9:SER:HB3	76:e:12:ARG:HH12	1.73	0.54
79:h:243:LEU:HB3	79:h:252:LEU:HD11	1.88	0.54
1:sR:404:G:H2'	1:sR:405:C:C6	2.43	0.54
6:s4:160:VAL:HG12	6:s4:172:PHE:CB	2.38	0.54
18:c7:47:ARG:HG2	18:c7:47:ARG:HH11	1.71	0.54
18:c7:101:ASN:HA	18:c7:120:SER:CB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:422:G:OP1	80:A:1910:OHX:N6	2.40	0.54
1:A:434:G:H5'	24:Y:78:LYS:HB3	1.88	0.54
1:A:1175:U:H2'	1:A:1176:G:H8	1.72	0.54
1:A:1404:C:H2'	1:A:1405:G:C8	2.43	0.54
1:A:1526:A:N1	1:A:1608:U:O2'	2.39	0.54
3:C:104:ASP:OD1	3:C:105:PHE:N	2.40	0.54
3:C:185:THR:O	3:C:189:ILE:HG13	2.08	0.54
4:D:77:GLN:N	4:D:77:GLN:OE1	2.41	0.54
11:K:134:ILE:HA	11:K:158:PHE:HA	1.89	0.54
15:P:52:ARG:NH1	15:P:53:ASP:OD1	2.40	0.54
20:U:105:LEU:HD13	20:U:122:ARG:HD3	1.89	0.54
35:1:656:A:H2'	35:1:657:A:H8	1.70	0.54
35:1:1013:G:N7	80:1:3517:OHX:N6	2.56	0.54
35:1:1602:A:H5"	52:z:38:ARG:HG3	1.88	0.54
35:1:2208:A:N1	80:1:4156:OHX:N2	2.55	0.54
35:1:2254:U:H2'	35:1:2261:G:N2	2.23	0.54
36:3:76:A:OP2	80:3:201:OHX:N2	2.40	0.54
33:k:141:GLY:O	33:k:145:GLU:HG2	2.08	0.54
43:q:57:VAL:HG23	43:q:68:LEU:HD13	1.89	0.54
43:q:114:VAL:HB	43:q:124:ARG:HB2	1.90	0.54
48:v:38:ARG:HB2	48:v:62:TYR:CZ	2.43	0.54
54:2:71:SER:HB2	54:2:91:LEU:O	2.06	0.54
35:AR:171:G:H2'	35:AR:172:G:O4'	2.08	0.54
35:AR:1564:U:H3	35:AR:1575:A:H61	1.54	0.54
35:AR:2298:U:O4	35:AR:2923:U:H5	1.91	0.54
35:AR:3159:C:H2'	35:AR:3160:U:C6	2.43	0.54
35:AR:3191:G:H2'	35:AR:3192:U:C6	2.42	0.54
35:AR:3355:U:H3'	35:AR:3356:G:C5'	2.35	0.54
43:CK:61:GLY:O	43:CK:65:VAL:HG12	2.07	0.54
46:CN:119:TYR:HD1	46:CN:145:PHE:CE2	2.25	0.54
69:DR:87:ARG:O	69:DR:91:GLU:HG2	2.07	0.54
1:sR:829:A:H1'	1:sR:830:U:H5	1.71	0.54
1:sR:1660:A:H2'	1:sR:1661:U:C6	2.43	0.54
79:Rb:19:TRP:H	79:Rb:38:ARG:HB2	1.72	0.54
79:Rb:22:SER:OG	79:Rb:70:ASP:HA	2.08	0.54
3:s1:101:HIS:HA	3:s1:217:LEU:HD22	1.88	0.54
4:s2:161:LYS:HB2	4:s2:165:VAL:O	2.08	0.54
10:s8:167:ALA:HB1	10:s8:182:TYR:O	2.07	0.54
16:c5:67:ALA:HB2	16:c5:73:PRO:CA	2.38	0.54
18:c7:105:GLN:HA	18:c7:108:ASP:OD1	2.07	0.54
22:d1:71:ARG:HA	22:d1:83:TRP:CE3	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:d2:14:ILE:HG22	23:d2:25:VAL:HG21	1.89	0.54
1:A:30:G:H2'	1:A:31:C:H6	1.71	0.54
1:A:515:A:N6	1:A:537:G:O2'	2.40	0.54
2:B:63:ILE:HG22	22:W:35:ASN:O	2.07	0.54
5:E:98:ALA:HA	5:E:188:ILE:HD12	1.89	0.54
7:G:124:LEU:HA	72:a:58:ARG:HD2	1.90	0.54
7:G:129:PRO:HA	7:G:132:VAL:CG2	2.37	0.54
7:G:171:ALA:O	7:G:174:LEU:HD12	2.07	0.54
8:H:98:ARG:HD3	8:H:99:GLY:N	2.22	0.54
9:I:28:GLU:OE2	9:I:39:ARG:HB2	2.08	0.54
35:1:638:C:H2'	35:1:639:G:H8	1.72	0.54
35:1:1073:U:H2'	35:1:1074:U:C6	2.43	0.54
35:1:1916:U:H2'	35:1:1917:C:C6	2.43	0.54
35:1:2357:A:H2'	35:1:2358:A:C8	2.41	0.54
35:1:2636:A:H5"	35:1:2637:A:H5'	1.89	0.54
35:1:3380:U:H2'	35:1:3381:U:C6	2.43	0.54
52:z:115:ILE:HD11	52:z:120:TYR:HB2	1.89	0.54
57:7:4:GLU:N	57:7:4:GLU:OE2	2.41	0.54
35:AR:993:G:N3	35:AR:2637:A:H2'	2.23	0.54
35:AR:1498:A:H2'	35:AR:1499:C:H6	1.73	0.54
35:AR:2571:U:H2'	35:AR:2571:U:OP1	2.08	0.54
37:AT:97:A:P	61:DJ:63:ARG:HH21	2.30	0.54
38:CF:311:HIS:CE1	38:CF:314:LYS:HA	2.42	0.54
39:CG:51:LEU:HB2	39:CG:144:VAL:CG1	2.38	0.54
42:CJ:238:LEU:HD13	42:CJ:243:GLN:HG2	1.88	0.54
44:CL:45:GLU:O	44:CL:141:LYS:HD3	2.08	0.54
45:CM:117:ASP:OD1	45:CM:119:SER:OG	2.24	0.54
46:CN:89:TYR:HB2	61:DJ:111:PHE:CE1	2.43	0.54
56:CX:2:SER:N	56:CX:57:MET:H	2.06	0.54
1:sR:200:A:H2'	1:sR:201:G:C8	2.42	0.54
1:sR:234:G:H2'	1:sR:235:G:O4'	2.08	0.54
1:sR:819:G:N1	1:sR:852:C:N3	2.44	0.54
1:sR:1180:C:H1'	16:c5:128:HIS:CE1	2.42	0.54
1:sR:1280:C:O2'	21:d0:70:THR:HB	2.08	0.54
1:sR:1648:A:H2'	1:sR:1649:G:H8	1.71	0.54
79:Rb:72:THR:HG21	79:Rb:122:ILE:HD11	1.89	0.54
3:s1:131:ASP:OD1	3:s1:131:ASP:N	2.38	0.54
4:s2:152:HIS:CD2	4:s2:174:ARG:HG2	2.42	0.54
7:s5:37:GLN:HA	7:s5:40:ILE:O	2.07	0.54
9:s7:91:ILE:HD12	9:s7:92:PHE:H	1.73	0.54
72:d5:60:VAL:HA	72:d5:64:VAL:HG11	1.90	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
77:e0:13:LYS:O	77:e0:17:GLN:HG2	2.08	0.54
78:e1:134:ASN:CG	78:e1:135:HIS:H	2.16	0.54
1:A:72:A:O2'	1:A:73:U:H5"	2.07	0.54
1:A:749:U:H2'	1:A:750:U:C6	2.43	0.54
1:A:1169:G:O2'	1:A:1576:A:N6	2.41	0.54
1:A:1570:A:OP1	80:A:2147:OHX:N3	2.41	0.54
2:B:113:ARG:O	2:B:113:ARG:HD3	2.06	0.54
7:G:208:SER:H	7:G:211:ILE:HD12	1.72	0.54
16:Q:107:ILE:HA	16:Q:111:MET:HE3	1.90	0.54
33:CE:107:ALA:HA	33:CE:199:PHE:HD2	1.73	0.54
33:CE:305:ILE:HD11	33:CE:317:ILE:HG21	1.89	0.54
35:1:99:A:H1'	35:1:281:G:N7	2.22	0.54
35:1:3379:C:H4'	33:k:315:GLY:HA2	1.89	0.54
37:4:23:U:OP1	27:9:16:ARG:NH1	2.40	0.54
37:4:141:C:OP1	48:v:109:ARG:NH1	2.41	0.54
40:n:43:LEU:HD21	40:n:85:ILE:HD12	1.90	0.54
41:o:163:LEU:O	41:o:168:ILE:HD13	2.07	0.54
47:u:127:LYS:O	47:u:131:VAL:HG13	2.08	0.54
49:w:10:ASP:HB2	49:w:117:ARG:HG3	1.88	0.54
27:9:58:VAL:HG23	27:9:64:LYS:HA	1.89	0.54
35:AR:1295:G:OP1	53:CU:84:ARG:HG3	2.08	0.54
35:AR:2986:U:H2'	35:AR:2987:A:C8	2.43	0.54
43:CK:117:PHE:O	43:CK:120:ASP:HB2	2.07	0.54
50:CR:59:PRO:HG3	50:CR:76:PHE:CD2	2.43	0.54
52:CT:171:ASP:HA	52:CT:174:ALA:HB3	1.90	0.54
55:CW:47:VAL:HG22	55:CW:48:GLY:N	2.23	0.54
64:DM:64:LYS:HZ2	64:DM:68:SER:HB2	1.69	0.54
79:h:149:ASP:HB2	79:h:175:ASP:CB	2.37	0.54
1:sR:374:U:OP1	13:c1:96:LYS:NZ	2.40	0.54
1:sR:916:U:H3	15:c4:41:ARG:NH1	2.06	0.54
3:s1:36:SER:N	3:s1:41:ARG:HH21	2.05	0.54
3:s1:70:LEU:HB3	3:s1:79:HIS:CB	2.36	0.54
3:s1:169:SER:O	3:s1:173:THR:HG22	2.07	0.54
6:s4:118:GLU:HA	6:s4:121:TYR:HE1	1.71	0.54
7:s5:69:PHE:HE2	17:c6:53:LEU:HD13	1.72	0.54
7:s5:209:TYR:CZ	7:s5:213:LYS:HD2	2.42	0.54
15:c4:34:SER:O	15:c4:34:SER:OG	2.25	0.54
17:c6:129:PHE:CD2	21:d0:79:TRP:HB2	2.43	0.54
19:c8:91:ASP:O	19:c8:92:ILE:HB	2.07	0.54
72:d5:60:VAL:N	72:d5:101:TYR:O	2.35	0.54
1:A:330:G:H2'	1:A:331:A:C8	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:470:A:H5”	80:A:2134:OHX:N4	2.22	0.54
1:A:1165:G:H2’	1:A:1166:A:C8	2.42	0.54
2:B:57:LEU:HD21	2:B:173:ILE:CG2	2.38	0.54
2:B:119:ARG:NH1	4:D:241:ASP:HA	2.22	0.54
2:B:121:VAL:HG13	2:B:143:VAL:HG22	1.90	0.54
3:C:134:VAL:O	3:C:217:LEU:HD11	2.07	0.54
6:F:86:PHE:HE2	6:F:226:PHE:CD2	2.26	0.54
9:I:89:HIS:HA	9:I:165:LYS:NZ	2.23	0.54
14:O:114:ARG:O	14:O:118:ILE:HG13	2.08	0.54
17:R:83:GLN:O	17:R:87:LYS:NZ	2.39	0.54
19:T:45:LEU:HD13	20:U:36:ILE:HG13	1.89	0.54
30:DE:17:VAL:HG22	30:DE:98:SER:CB	2.38	0.54
35:1:353:G:O2’	35:1:364:G:O6	2.20	0.54
35:1:627:U:H2’	35:1:628:A:C8	2.43	0.54
35:1:821:U:H2’	35:1:822:G:H8	1.73	0.54
35:1:1485:G:OP2	80:1:3625:OHX:N4	2.40	0.54
80:1:4170:OHX:N1	50:x:53:ASP:O	2.41	0.54
37:4:91:C:H2’	37:4:92:A:C8	2.43	0.54
38:l:226:GLU:OE1	38:l:237:GLN:NE2	2.34	0.54
39:m:222:LEU:O	39:m:223:PHE:HB2	2.08	0.54
39:m:236:LEU:HA	39:m:239:ILE:HD13	1.90	0.54
44:r:141:LYS:HD2	44:r:142:ASP:H	1.73	0.54
56:6:2:SER:N	56:6:56:ASP:HA	2.21	0.54
56:6:52:ALA:HB1	56:6:56:ASP:HB2	1.89	0.54
35:AR:284:A:OP2	68:DQ:41:ARG:NH1	2.33	0.54
35:AR:1497:C:O2’	35:AR:1602:A:O2’	2.24	0.54
35:AR:2201:G:H2’	35:AR:2202:C:C6	2.43	0.54
42:CJ:157:VAL:HG23	42:CJ:160:ILE:HA	1.89	0.54
44:CL:208:ASN:HA	44:CL:211:ARG:HE	1.72	0.54
46:CN:58:VAL:O	46:CN:69:VAL:HG23	2.08	0.54
50:CR:105:LYS:HB3	50:CR:107:LEU:CD1	2.38	0.54
52:CT:134:HIS:CE1	52:CT:137:ALA:HB2	2.43	0.54
55:CW:36:TYR:O	55:CW:40:HIS:ND1	2.41	0.54
56:CX:80:ARG:HB2	56:CX:99:ALA:HB3	1.89	0.54
79:h:59:ARG:NH2	79:h:96:THR:O	2.41	0.54
79:h:224:ASN:HB2	79:h:231:MET:HE3	1.90	0.54
1:sR:413:U:H2’	1:sR:414:C:C6	2.42	0.54
1:sR:1208:A:N1	1:sR:1455:G:N2	2.56	0.54
1:sR:1222:C:H2’	1:sR:1223:A:O4’	2.08	0.54
79:Rb:238:ASP:OD2	79:Rb:258:THR:OG1	2.21	0.54
5:s3:80:ALA:O	5:s3:83:THR:OG1	2.21	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:72:HIS:CD2	7:s5:107:LYS:HG2	2.26	0.54
13:c1:75:VAL:HG12	13:c1:121:ASP:O	2.07	0.54
20:c9:107:ALA:HA	20:c9:110:LYS:HG3	1.90	0.54
23:d2:15:ASN:ND2	23:d2:72:CYS:O	2.41	0.54
1:A:1332:C:O2'	5:E:162:GLN:HB3	2.07	0.54
3:C:77:GLU:C	3:C:79:HIS:H	2.16	0.54
3:C:91:VAL:HA	3:C:95:ASN:HB3	1.89	0.54
3:C:134:VAL:O	3:C:217:LEU:HD21	2.08	0.54
7:G:206:SER:O	7:G:212:LYS:NZ	2.40	0.54
12:L:32:HIS:CD2	12:L:35:ILE:HG13	2.43	0.54
19:T:41:ARG:HH12	20:U:46:PRO:HG3	1.72	0.54
24:Y:100:ASP:OD2	24:Y:142:LYS:NZ	2.34	0.54
26:AA:89:VAL:N	26:AA:90:GLU:OE1	2.40	0.54
27:DA:75:ARG:NH1	37:AT:72:A:H4'	2.23	0.54
35:1:16:A:OP2	58:8:42:ARG:NH1	2.41	0.54
35:1:155:G:H5"	35:1:156:G:C8	2.43	0.54
35:1:610:G:O6	38:l:309:ARG:NH2	2.38	0.54
35:1:631:U:H2'	35:1:632:G:C8	2.43	0.54
35:1:900:G:H1'	35:1:1589:A:H61	1.73	0.54
35:1:1386:A:O4'	38:l:141:ARG:NH2	2.40	0.54
35:1:1534:A:OP1	80:1:3408:OHX:N1	2.41	0.54
35:1:1576:G:H3'	35:1:1577:G:C8	2.42	0.54
35:1:1803:C:H4'	60:AH:70:LYS:HE3	1.90	0.54
36:3:3:U:H2'	36:3:4:U:H6	1.73	0.54
38:l:38:VAL:O	38:l:42:VAL:HG23	2.07	0.54
42:p:161:GLU:HA	42:p:164:VAL:HG22	1.90	0.54
49:w:113:ASP:OD1	49:w:113:ASP:N	2.40	0.54
51:y:101:VAL:HG21	51:y:114:ILE:HD13	1.90	0.54
55:5:36:TYR:O	55:5:36:TYR:HD1	1.91	0.54
55:5:40:HIS:HA	55:5:47:VAL:CG2	2.38	0.54
56:6:84:SER:HA	56:6:94:TYR:HB3	1.90	0.54
60:AH:85:VAL:O	60:AH:89:ILE:HG13	2.07	0.54
35:AR:849:C:H2'	35:AR:850:U:H6	1.72	0.54
35:AR:1772:U:H5"	35:AR:1773:C:H5'	1.90	0.54
35:AR:3197:G:H2'	35:AR:3198:U:H5"	1.89	0.54
35:AR:3276:G:OP2	40:CH:48:ARG:NH1	2.41	0.54
48:CP:6:TYR:CE1	62:DK:40:VAL:HG22	2.43	0.54
48:CP:11:GLN:HG2	48:CP:44:ARG:HH21	1.72	0.54
50:CR:141:SER:O	50:CR:143:PRO:HD3	2.08	0.54
58:CZ:115:ARG:NH1	58:CZ:119:THR:OG1	2.37	0.54
59:DH:9:VAL:CG2	59:DH:100:ILE:HB	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:DI:74:ARG:HG2	60:DI:75:ALA:N	2.23	0.54
75:d:9:LEU:O	75:d:32:PHE:HA	2.08	0.54
77:f:13:LYS:O	77:f:16:SER:OG	2.24	0.54
79:h:147:HIS:CD2	79:h:151:VAL:HG12	2.42	0.54
79:h:276:PRO:HG3	79:h:311:ARG:HD2	1.88	0.54
1:sR:753:A:OP1	6:s4:186:GLY:HA3	2.08	0.54
1:sR:1142:A:H2'	1:sR:1143:A:C8	2.43	0.54
10:s8:66:SER:O	10:s8:183:ILE:HG22	2.08	0.54
10:s8:117:TYR:CE2	10:s8:150:ALA:HA	2.43	0.54
14:c3:91:LEU:HB3	14:c3:122:ILE:HG12	1.89	0.54
19:c8:32:LEU:O	19:c8:35:ILE:HD12	2.06	0.54
1:A:413:U:H2'	1:A:414:C:C6	2.43	0.53
1:A:603:U:H2'	1:A:604:A:H8	1.71	0.53
1:A:852:C:H2'	1:A:853:G:O4'	2.08	0.53
1:A:1291:G:H22	1:A:1324:G:N2	2.06	0.53
1:A:1738:U:H2'	1:A:1739:C:C6	2.43	0.53
2:B:193:GLN:O	2:B:195:TRP:N	2.41	0.53
3:C:119:THR:HG23	3:C:143:THR:CG2	2.38	0.53
4:D:237:VAL:HG12	4:D:242:ILE:HD11	1.90	0.53
6:F:191:ARG:HB3	6:F:218:PHE:CZ	2.43	0.53
8:H:67:VAL:HG21	8:H:99:GLY:HA2	1.89	0.53
9:I:62:VAL:HG11	9:I:70:PHE:CE2	2.44	0.53
13:M:67:ARG:HD3	13:M:67:ARG:N	2.23	0.53
14:O:46:THR:HG23	14:O:49:GLN:OE1	2.07	0.53
14:O:94:LYS:HG2	14:O:118:ILE:HD13	1.90	0.53
20:U:14:PHE:HE2	20:U:63:ARG:HG3	1.73	0.53
27:DA:11:ASP:OD1	27:DA:13:ARG:N	2.41	0.53
27:DA:31:LEU:HB3	27:DA:101:PRO:HG3	1.90	0.53
35:1:1214:U:H2'	35:1:1215:U:C6	2.43	0.53
35:1:2270:A:H2'	35:1:2271:A:C8	2.43	0.53
35:1:2273:G:O2'	35:1:2311:G:O6	2.24	0.53
35:1:2723:U:OP1	54:2:87:LYS:HE3	2.07	0.53
35:1:2946:A:H5"	35:1:2947:G:H5'	1.90	0.53
35:1:2948:C:H2'	35:1:2949:U:C6	2.43	0.53
35:1:2948:C:H2'	35:1:2949:U:H6	1.73	0.53
36:3:27:A:OP2	39:m:57:ASN:HB2	2.08	0.53
33:k:92:TYR:HB2	33:k:157:VAL:CG2	2.34	0.53
33:k:229:VAL:HG13	33:k:235:THR:HG21	1.90	0.53
42:p:61:GLN:O	42:p:64:ILE:HG13	2.08	0.53
47:u:117:ARG:O	47:u:120:VAL:HG22	2.08	0.53
48:v:75:VAL:HG23	48:v:78:GLY:HA2	1.89	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:AI:20:GLN:O	61:AI:24:LEU:HD12	2.08	0.53
35:AR:271:C:O2	62:DK:82:ARG:NH2	2.41	0.53
35:AR:1433:A:N3	34:DG:27:ARG:NH1	2.55	0.53
35:AR:1498:A:H2'	35:AR:1499:C:C6	2.43	0.53
49:CQ:42:ASN:OD1	49:CQ:125:ARG:HD3	2.08	0.53
53:CU:110:MET:HB3	53:CU:116:ALA:HB3	1.90	0.53
34:DG:79:VAL:HG23	34:DG:108:ILE:HD13	1.90	0.53
61:DJ:70:TYR:CE2	61:DJ:77:PRO:HD3	2.43	0.53
79:h:40:LYS:HA	79:h:68:VAL:HG13	1.90	0.53
1:sR:512:A:H2'	1:sR:513:U:C6	2.43	0.53
1:sR:830:U:C2'	1:sR:831:U:H5'	2.38	0.53
1:sR:1040:G:H5"	2:s0:31:VAL:HG21	1.89	0.53
1:sR:1504:G:OP1	20:c9:97:SER:OG	2.26	0.53
6:s4:210:ILE:HB	6:s4:218:PHE:CE1	2.43	0.53
7:s5:51:VAL:HG21	7:s5:130:ILE:HD11	1.88	0.53
7:s5:140:THR:C	7:s5:214:LYS:HZ3	2.17	0.53
8:s6:199:GLN:HG2	8:s6:202:ARG:HH21	1.74	0.53
9:s7:27:LEU:O	9:s7:34:LEU:HD22	2.07	0.53
11:s9:71:PHE:C	11:s9:71:PHE:HD1	2.16	0.53
1:A:275:C:H2'	1:A:276:C:C6	2.43	0.53
1:A:341:A:H2'	1:A:342:C:H6	1.72	0.53
1:A:1638:G:H2'	1:A:1639:C:O4'	2.08	0.53
2:B:50:VAL:HA	2:B:53:THR:HG23	1.89	0.53
3:C:32:ILE:CG2	3:C:33:LYS:H	2.20	0.53
4:D:140:ARG:CZ	22:W:1:MET:SD	2.97	0.53
7:G:165:LEU:HD21	75:d:47:PRO:O	2.08	0.53
15:P:16:VAL:HG22	15:P:31:THR:O	2.08	0.53
17:R:16:ALA:HB2	17:R:72:GLY:HA3	1.90	0.53
25:Z:12:VAL:HG22	25:Z:23:PHE:HB2	1.90	0.53
28:AB:85:ASP:OD1	28:AB:86:LYS:N	2.39	0.53
26:DB:119:GLU:OE1	26:DB:119:GLU:N	2.37	0.53
35:1:1119:C:OP2	80:1:3469:OHX:N1	2.41	0.53
35:1:1281:G:H2'	35:1:1282:G:C8	2.44	0.53
36:3:28:C:O3'	45:s:135:GLY:HA2	2.09	0.53
33:k:280:HIS:HB3	33:k:324:VAL:CG1	2.37	0.53
38:l:31:ARG:O	38:l:35:VAL:HG23	2.08	0.53
69:AQ:56:THR:HG22	69:AQ:63:THR:OG1	2.08	0.53
70:i:140:ASP:OD1	70:i:140:ASP:N	2.39	0.53
35:AR:845:G:O6	80:AR:3540:OHX:N6	2.42	0.53
35:AR:1855:U:H2'	35:AR:1856:C:H6	1.72	0.53
35:AR:3159:C:O2	35:AR:3291:G:N2	2.36	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:3232:G:H2'	35:AR:3233:C:H6	1.73	0.53
35:AR:3254:G:O6	80:AR:3700[B]:OHX:N3	2.41	0.53
36:AS:26:C:H2'	36:AS:27:A:O4'	2.08	0.53
42:CJ:158:ASP:HB3	42:CJ:159:PRO:HD3	1.89	0.53
50:CR:78:VAL:HG22	50:CR:79:THR:H	1.73	0.53
52:CT:115:ILE:HB	52:CT:119:LEU:HD23	1.89	0.53
60:DI:82:ALA:C	60:DI:85:VAL:H	2.16	0.53
69:DR:22:LEU:O	69:DR:26:VAL:HG23	2.07	0.53
69:DR:33:GLN:HG2	69:DR:34:HIS:CD2	2.43	0.53
1:sR:753:A:H2'	1:sR:754:A:O4'	2.07	0.53
1:sR:947:U:H2'	1:sR:948:G:C8	2.43	0.53
1:sR:1218:G:O2'	1:sR:1219:A:OP2	2.20	0.53
1:sR:1685:G:H1	1:sR:1716:C:H42	1.56	0.53
11:s9:125:ALA:O	11:s9:129:ILE:HD12	2.07	0.53
19:c8:7:GLU:HG3	19:c8:60:GLU:OE1	2.08	0.53
22:d1:71:ARG:HD2	74:d7:4:VAL:HG21	1.89	0.53
1:A:1572:G:H2'	1:A:1572:G:N3	2.23	0.53
80:A:1974:OHX:N3	2:B:32:HIS:HD2	2.06	0.53
3:C:37:THR:HG23	3:C:38:PHE:CD2	2.42	0.53
8:H:136:LYS:HG3	8:H:173:PRO:HB2	1.89	0.53
11:K:54:ARG:HA	11:K:57:ARG:NE	2.23	0.53
22:W:22:ARG:HH21	23:X:67:GLY:HA2	1.73	0.53
28:AB:118:ILE:HD12	28:AB:119:PRO:O	2.07	0.53
28:DC:117:ARG:NH2	35:AR:718:G:OP1	2.41	0.53
31:CD:227:ARG:NH2	35:AR:2161:G:O3'	2.40	0.53
35:1:261:U:H2'	35:1:262:U:C6	2.43	0.53
35:1:1597:C:H2'	35:1:1598:G:C8	2.43	0.53
35:1:3346:U:H3	35:1:3359:A:N6	2.06	0.53
33:k:277:SER:HB3	33:k:280:HIS:NE2	2.24	0.53
42:p:211:LEU:O	42:p:215:VAL:HG13	2.09	0.53
44:r:47:PRO:HD2	44:r:141:LYS:HA	1.89	0.53
45:s:164:LYS:O	45:s:168:ASP:HA	2.08	0.53
58:8:68:THR:HG22	61:AI:36:LEU:HD12	1.90	0.53
59:AG:60:ARG:O	59:AG:60:ARG:HG3	2.09	0.53
35:AR:256:G:H2'	35:AR:257:U:C6	2.43	0.53
35:AR:563:U:H2'	35:AR:564:G:C8	2.43	0.53
35:AR:1235:U:C4'	35:AR:1236:G:H5'	2.38	0.53
35:AR:1486:G:OP2	80:AR:3536:OHX:N4	2.41	0.53
35:AR:2896:A:H8	35:AR:2896:A:H5'	1.74	0.53
35:AR:3051:U:H1'	56:CX:92:PHE:CE2	2.44	0.53
49:CQ:79:ILE:HG21	49:CQ:138:LEU:HD11	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:CV:11:THR:HG22	54:CV:14:MET:HE2	1.91	0.53
54:CV:106:LEU:HA	54:CV:109:VAL:HG12	1.89	0.53
55:CW:42:LYS:HB3	55:CW:45:GLY:O	2.08	0.53
56:CX:66:LYS:HD2	56:CX:68:GLU:OE1	2.08	0.53
1:sR:832:U:H2'	1:sR:833:U:O4'	2.07	0.53
1:sR:1383:G:OP1	21:d0:89:ARG:NH2	2.42	0.53
79:Rb:232:TYR:CZ	79:Rb:265:LEU:HD12	2.44	0.53
5:s3:102:ALA:HB2	5:s3:171:ALA:HB3	1.90	0.53
17:c6:106:LYS:O	17:c6:110:THR:HG23	2.08	0.53
19:c8:139:LYS:O	19:c8:143:ARG:NH1	2.42	0.53
1:A:58:U:OP1	1:A:456:A:O2'	2.20	0.53
1:A:322:G:O2'	10:J:10:LYS:NZ	2.27	0.53
1:A:1250:U:O2	78:g:135:HIS:NE2	2.41	0.53
1:A:1505:A:C5	1:A:1506:G:H1'	2.44	0.53
1:A:1727:G:H2'	1:A:1728:A:C8	2.42	0.53
2:B:25:GLY:CA	2:B:48:ILE:HD11	2.38	0.53
2:B:85:ALA:HA	2:B:202:TYR:HD1	1.73	0.53
6:F:85:GLY:N	6:F:88:ASP:OD2	2.36	0.53
9:I:151:LYS:HA	9:I:182:VAL:HG13	1.89	0.53
17:R:6:SER:OG	17:R:23:LYS:HA	2.09	0.53
17:R:82:ARG:O	17:R:85:ILE:HG13	2.08	0.53
18:S:21:TYR:HA	18:S:58:MET:HE1	1.90	0.53
18:S:60:ARG:HH21	18:S:66:VAL:HG21	1.73	0.53
22:W:71:ARG:HB2	22:W:83:TRP:CD2	2.43	0.53
24:Y:48:HIS:HD2	24:Y:105:ALA:HB2	1.74	0.53
26:DB:116:LYS:HA	26:DB:119:GLU:OE1	2.08	0.53
28:DC:21:ARG:HG3	35:AR:1369:A:H4'	1.90	0.53
28:DC:47:LYS:O	28:DC:47:LYS:HG3	2.07	0.53
30:AD:28:LYS:HE3	35:1:1730:G:C8	2.43	0.53
33:CE:4:ARG:NH1	33:CE:4:ARG:HB3	2.23	0.53
35:1:1169:A:OP1	80:1:4141:OHX:N1	2.42	0.53
37:4:9:A:H2'	37:4:10:A:H8	1.73	0.53
41:o:92:ILE:HD11	51:y:4:ASP:HB2	1.91	0.53
46:t:157:ARG:HG2	46:t:158:ALA:N	2.23	0.53
47:u:23:ILE:HA	47:u:63:VAL:HG12	1.90	0.53
69:AQ:49:ARG:CD	69:AQ:50:GLY:H	2.22	0.53
35:AR:518:G:OP2	35:AR:518:G:N2	2.29	0.53
35:AR:1845:G:H5'	35:AR:1846:C:H5"	1.90	0.53
35:AR:2209:U:O2'	35:AR:2210:G:OP2	2.22	0.53
48:CP:68:ARG:HA	48:CP:98:LEU:HD21	1.89	0.53
73:b:84:VAL:HG13	73:b:85:ARG:H	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:687:G:C5'	23:d2:119:LYS:HG2	2.38	0.53
2:s0:144:ILE:HD12	2:s0:158:VAL:HB	1.91	0.53
4:s2:83:ILE:O	4:s2:83:ILE:HD12	2.07	0.53
4:s2:142:GLY:O	4:s2:151:PRO:HB2	2.07	0.53
6:s4:92:LEU:HD13	25:d4:17:LEU:HD11	1.91	0.53
11:s9:89:ASP:H	11:s9:90:LYS:NZ	2.07	0.53
12:c0:54:TYR:C	12:c0:69:THR:HG22	2.32	0.53
15:c4:114:ARG:HG2	73:d6:59:TYR:CE2	2.43	0.53
19:c8:18:LEU:HD21	19:c8:70:VAL:HG13	1.90	0.53
1:A:83:G:O6	80:A:2145:OHX:N1	2.41	0.53
1:A:190:C:O2'	1:A:191:C:H5'	2.08	0.53
1:A:811:A:C2	1:A:858:G:H1'	2.44	0.53
1:A:953:G:H2'	1:A:954:G:H8	1.74	0.53
1:A:1390:U:P	18:S:49:LYS:HG2	2.48	0.53
14:O:20:ARG:HG3	23:X:56:HIS:CE1	2.43	0.53
14:O:28:LEU:HB3	14:O:32:SER:HB2	1.91	0.53
15:P:114:ARG:HA	73:b:62:TYR:OH	2.08	0.53
17:R:40:GLU:HA	17:R:42:GLU:N	2.23	0.53
25:Z:114:ARG:O	25:Z:117:LYS:NZ	2.41	0.53
32:AE:80:ASN:HD21	32:AE:85:ALA:HB3	1.74	0.53
35:1:2232:A:H2'	35:1:2233:A:C8	2.44	0.53
35:1:2606:G:OP1	31:j:233:GLN:NE2	2.40	0.53
35:1:3016:A:OP2	80:1:3600:OHX:N2	2.42	0.53
84:1:4195:VDU:C19	84:1:4195:VDU:C20	2.85	0.53
31:j:48:ILE:HG22	69:AQ:54:ILE:HG12	1.89	0.53
33:k:109:HIS:ND1	33:k:200:GLU:OE1	2.23	0.53
43:q:92:TYR:HB2	43:q:142:ASP:HB3	1.90	0.53
46:t:192:GLU:O	46:t:194:GLU:N	2.41	0.53
49:w:54:TYR:O	49:w:58:LEU:HD12	2.08	0.53
50:x:78:VAL:HG22	50:x:80:LYS:H	1.73	0.53
53:0:123:ILE:O	53:0:123:ILE:HD12	2.07	0.53
54:2:9:SER:O	54:2:55:LYS:HE2	2.07	0.53
59:AG:8:TYR:CE2	59:AG:99:ARG:HD3	2.44	0.53
35:AR:94:G:H2'	35:AR:95:A:C8	2.44	0.53
35:AR:284:A:H4'	35:AR:285:A:C2	2.44	0.53
35:AR:1226:G:H2'	35:AR:1227:C:C6	2.44	0.53
35:AR:2180:G:H2'	35:AR:2181:C:C6	2.44	0.53
35:AR:2555:G:C5	60:DI:95:ILE:HG21	2.43	0.53
41:CI:110:ARG:CZ	51:CS:3:ILE:HD11	2.38	0.53
44:CL:176:LEU:HD21	44:CL:184:LYS:HD2	1.90	0.53
51:CS:57:ILE:H	51:CS:57:ILE:HD12	1.74	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:DH:59:VAL:HG23	59:DH:60:ARG:H	1.73	0.53
1:sR:417:A:H4'	1:sR:418:G:O5'	2.08	0.53
1:sR:880:C:OP2	80:sR:1965:OHX:N4	2.41	0.53
1:sR:1511:U:H2'	1:sR:1512:G:H8	1.72	0.53
1:sR:1690:G:H1	1:sR:1711:C:H42	1.56	0.53
79:Rb:9:LEU:HD22	79:Rb:313:TRP:N	2.23	0.53
79:Rb:178:VAL:HB	79:Rb:192:PHE:HB2	1.90	0.53
2:s0:122:ILE:HA	2:s0:144:ILE:O	2.09	0.53
6:s4:119:ALA:O	6:s4:164:LEU:HD13	2.08	0.53
11:s9:65:LYS:HA	11:s9:70:LEU:HD11	1.90	0.53
12:c0:16:PHE:O	86:c0:201:5XU:HB2	2.09	0.53
14:c3:26:PHE:CE2	14:c3:66:ILE:HD13	2.43	0.53
78:e1:103:LEU:HD11	78:e1:131:PHE:CD2	2.44	0.53
1:A:4:C:H5'	4:D:204:THR:OG1	2.08	0.53
1:A:753:A:H5"	1:A:754:A:OP2	2.09	0.53
1:A:955:A:OP1	14:O:3:ARG:NH1	2.41	0.53
1:A:1062:A:OP2	80:A:1980:OHX:N4	2.42	0.53
1:A:1536:G:C6	1:A:1538:U:H1'	2.44	0.53
1:A:1580:C:H2'	1:A:1581:C:C6	2.44	0.53
2:B:146:LEU:HD22	2:B:160:ILE:HD11	1.91	0.53
6:F:205:PHE:HD2	6:F:221:ARG:NH1	2.07	0.53
8:H:59:GLN:NE2	8:H:72:ARG:HH22	2.06	0.53
12:L:38:LYS:O	12:L:42:VAL:HG23	2.08	0.53
12:L:59:PHE:CZ	12:L:62:GLN:HA	2.44	0.53
15:P:89:THR:HB	15:P:128:LYS:HG2	1.90	0.53
22:W:41:GLU:CD	22:W:41:GLU:H	2.16	0.53
24:Y:130:VAL:HG23	24:Y:130:VAL:O	2.08	0.53
25:Z:7:ILE:HG12	25:Z:43:LYS:HE2	1.90	0.53
28:AB:78:LEU:O	28:AB:78:LEU:HG	2.08	0.53
30:DE:17:VAL:HG22	30:DE:98:SER:HB2	1.89	0.53
35:1:900:G:H2'	35:1:901:G:C8	2.44	0.53
35:1:1103:A:H1'	35:1:1104:G:OP1	2.09	0.53
35:1:1488:G:H5"	35:1:1838:G:O6	2.09	0.53
35:1:1867:A:H2'	35:1:1868:G:C8	2.43	0.53
35:1:2097:U:H2'	35:1:2098:C:C6	2.44	0.53
35:1:2882:U:H2'	35:1:2883:U:H6	1.74	0.53
35:1:2897:A:H5"	66:AN:125:LYS:HG3	1.90	0.53
45:s:79:ILE:HG22	45:s:127:PHE:HE2	1.73	0.53
53:0:135:VAL:HG13	53:0:141:LYS:NZ	2.24	0.53
35:AR:359:U:H4'	35:AR:817:A:N6	2.24	0.53
35:AR:887:G:H2'	35:AR:888:A:C8	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1295:G:H2'	35:AR:1296:C:C6	2.44	0.53
35:AR:1497:C:H2'	35:AR:1498:A:H8	1.72	0.53
80:AR:3406:OHX:N4	37:AT:2:A:OP2	2.41	0.53
48:CP:24:ARG:HA	48:CP:27:VAL:HG12	1.89	0.53
52:CT:151:ARG:HH11	52:CT:155:LEU:HG	1.74	0.53
67:DP:16:LYS:O	67:DP:20:VAL:HG23	2.08	0.53
79:h:20:VAL:HG23	79:h:291:SER:OG	2.09	0.53
79:Rb:276:PRO:HB2	79:Rb:278:PHE:CZ	2.43	0.53
24:d3:51:GLY:O	24:d3:101:GLU:HA	2.09	0.53
73:d6:90:GLU:CD	73:d6:90:GLU:H	2.15	0.53
75:d8:58:GLU:CD	75:d8:58:GLU:N	2.67	0.53
1:A:1073:G:H4'	14:O:10:GLY:HA2	1.91	0.53
1:A:1471:A:C2	1:A:1474:G:N3	2.76	0.53
1:A:1757:G:H4'	35:1:2256:A:N7	2.23	0.53
2:B:106:SER:O	2:B:115:PHE:HD1	1.91	0.53
3:C:135:LEU:HA	3:C:217:LEU:HD13	1.91	0.53
5:E:8:LYS:O	5:E:12:VAL:HG13	2.09	0.53
8:H:182:GLN:H	8:H:182:GLN:CD	2.08	0.53
9:I:35:LYS:HD3	9:I:36:ALA:N	2.24	0.53
9:I:141:ARG:NH2	9:I:143:LEU:HD21	2.23	0.53
11:K:139:GLN:HE22	25:Z:63:GLN:CD	2.16	0.53
18:S:81:LYS:O	18:S:81:LYS:NZ	2.20	0.53
19:T:91:ASP:O	19:T:92:ILE:HB	2.09	0.53
20:U:105:LEU:HD22	20:U:122:ARG:CZ	2.39	0.53
27:DA:17:LYS:NZ	37:AT:24:G:OP1	2.32	0.53
28:DC:69:TRP:CG	46:CN:64:LYS:HG3	2.43	0.53
35:1:38:U:H2'	35:1:39:A:O4'	2.09	0.53
35:1:665:A:H1'	46:t:14:PHE:CE2	2.44	0.53
35:1:1119:C:H2'	35:1:1120:A:C8	2.44	0.53
35:1:1666:G:H2'	35:1:1667:A:C8	2.44	0.53
38:l:212:ASP:OD1	38:l:216:VAL:HG22	2.09	0.53
49:w:98:ALA:HA	49:w:101:ARG:HH11	1.72	0.53
66:AN:127:LEU:HD12	66:AN:128:LYS:H	1.74	0.53
68:AP:10:THR:HG22	68:AP:23:HIS:ND1	2.24	0.53
68:AP:72:LEU:HD12	68:AP:72:LEU:N	2.24	0.53
35:AR:80:G:H2'	35:AR:81:C:H6	1.74	0.53
35:AR:2407:C:H1'	35:AR:2818:U:C2	2.43	0.53
35:AR:2546:C:C2	35:AR:2547:A:C8	2.97	0.53
35:AR:3228:C:H4'	35:AR:3229:G:O5'	2.09	0.53
37:AT:53:A:H2'	37:AT:54:A:C8	2.44	0.53
44:CL:55:ASN:O	44:CL:131:ILE:HG12	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:129:ASN:HB2	46:CN:131:LYS:NZ	2.24	0.53
32:DF:75:ILE:HG12	32:DF:93:VAL:HG13	1.90	0.53
61:DJ:86:ARG:O	61:DJ:90:ARG:HD2	2.08	0.53
62:DK:86:LYS:NZ	62:DK:89:GLU:OE1	2.30	0.53
72:a:43:ASP:HB3	72:a:46:LYS:CB	2.39	0.53
79:h:36:ALA:HB2	79:h:42:LEU:HD23	1.90	0.53
1:sR:223:U:O4	80:sR:1957:OHX:N5	2.41	0.53
1:sR:411:C:H2'	1:sR:412:A:O4'	2.08	0.53
79:Rb:243:LEU:HB2	79:Rb:252:LEU:HD21	1.90	0.53
2:s0:26:ALA:HB3	2:s0:149:LEU:HB2	1.90	0.53
3:s1:66:VAL:HG21	15:c4:33:LEU:HB3	1.90	0.53
7:s5:175:LEU:HD12	7:s5:176:THR:N	2.24	0.53
10:s8:93:THR:HG23	10:s8:95:THR:OG1	2.08	0.53
1:A:610:G:H2'	1:A:614:C:C5	2.44	0.53
1:A:1219:A:H3'	1:A:1220:C:C6	2.44	0.53
1:A:1673:G:H2'	1:A:1674:C:H6	1.74	0.53
2:B:71:GLU:HA	2:B:94:GLY:C	2.33	0.53
3:C:21:VAL:C	3:C:26:ARG:HH22	2.16	0.53
4:D:130:ILE:O	4:D:134:LEU:HD22	2.09	0.53
6:F:107:GLY:HA2	6:F:189:LEU:CD2	2.39	0.53
8:H:182:GLN:OE1	8:H:182:GLN:N	2.23	0.53
9:I:13:PRO:HB2	9:I:14:THR:HB	1.90	0.53
16:Q:55:GLY:O	16:Q:58:LYS:HB3	2.09	0.53
17:R:43:ILE:H	17:R:43:ILE:HD12	1.73	0.53
20:U:6:VAL:HG11	20:U:66:TYR:CE2	2.44	0.53
21:V:42:VAL:O	21:V:52:LYS:HE3	2.08	0.53
28:DC:104:THR:HG21	28:DC:112:ILE:HD11	1.89	0.53
30:DE:70:PHE:CE1	30:DE:72:GLY:HA3	2.44	0.53
35:1:92:G:OP2	35:1:93:C:H5"	2.08	0.53
35:1:584:G:H2'	35:1:585:A:H8	1.74	0.53
35:1:1706:C:H2'	35:1:1707:A:O4'	2.08	0.53
35:1:3139:A:OP2	33:k:30:LYS:NZ	2.28	0.53
36:3:71:G:H2'	36:3:72:A:H8	1.72	0.53
43:q:9:GLN:HG2	43:q:52:LEU:HD11	1.91	0.53
44:r:66:GLU:O	44:r:70:ILE:HG23	2.08	0.53
45:s:10:ARG:HG2	45:s:10:ARG:O	2.09	0.53
52:z:84:THR:O	52:z:88:ARG:HG3	2.09	0.53
55:5:76:LEU:O	55:5:80:THR:OG1	2.25	0.53
35:AR:643:U:O2'	35:AR:1153:A:N1	2.37	0.53
35:AR:1709:C:H2'	35:AR:1710:C:H6	1.74	0.53
35:AR:2787:G:H2'	35:AR:2788:C:C6	2.44	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CG:92:LEU:H	39:CG:92:LEU:CD2	2.21	0.53
42:CJ:152:LEU:HD12	42:CJ:198:ALA:HB3	1.89	0.53
58:CZ:58:ASP:O	58:CZ:62:VAL:HG23	2.08	0.53
79:h:159:ASN:ND2	79:h:164:ASP:OD1	2.26	0.53
1:sR:296:U:H2'	1:sR:297:U:C6	2.43	0.53
1:sR:328:A:H2'	1:sR:329:G:C8	2.43	0.53
1:sR:836:U:H2'	1:sR:837:G:H8	1.73	0.53
1:sR:1698:G:O2'	1:sR:1699:G:O5'	2.25	0.53
79:Rb:61:PHE:HD2	79:Rb:92:TRP:CE3	2.27	0.53
2:s0:32:HIS:O	2:s0:33:GLN:NE2	2.34	0.53
3:s1:32:ILE:HB	3:s1:43:VAL:HG23	1.90	0.53
3:s1:50:LYS:HD2	3:s1:51:SER:N	2.24	0.53
12:c0:26:ASP:OD2	12:c0:29:GLN:HB2	2.08	0.53
14:c3:99:ARG:O	14:c3:103:GLU:HG2	2.09	0.53
23:d2:24:GLN:HE22	74:d7:4:VAL:HA	1.73	0.53
23:d2:86:ILE:O	23:d2:90:THR:HG23	2.09	0.53
1:A:1494:C:H2'	1:A:1495:C:C6	2.43	0.53
2:B:69:ASN:HD21	4:D:244:SER:C	2.17	0.53
2:B:182:LEU:HB3	2:B:188:LEU:HD22	1.88	0.53
3:C:83:LYS:HG3	3:C:106:THR:HG22	1.90	0.53
3:C:91:VAL:HG22	3:C:96:LEU:HA	1.90	0.53
4:D:246:GLU:N	4:D:246:GLU:OE1	2.42	0.53
8:H:23:ARG:O	8:H:26:VAL:HG12	2.09	0.53
11:K:168:ARG:HG2	11:K:171:ARG:HH22	1.73	0.53
19:T:125:ILE:HG13	70:i:61:ILE:CG2	2.38	0.53
24:Y:79:ASN:OD1	24:Y:81:LYS:HG3	2.09	0.53
28:AB:76:ASP:N	28:AB:115:LYS:O	2.42	0.53
26:DB:9:LYS:O	26:DB:25:ILE:HD12	2.08	0.53
26:DB:68:ILE:O	26:DB:115:LYS:HD2	2.08	0.53
30:AD:28:LYS:HB2	35:1:1730:G:N7	2.24	0.53
35:1:307:A:H2'	35:1:308:A:H8	1.74	0.53
35:1:1039:U:H2'	35:1:1040:A:C8	2.43	0.53
35:1:3060:C:H2'	35:1:3061:G:H8	1.73	0.53
35:1:3214:U:C4	47:u:121:MET:HG3	2.44	0.53
39:m:184:ASP:OD1	39:m:187:THR:HG22	2.09	0.53
35:AR:291:C:H2'	35:AR:292:U:C6	2.44	0.53
35:AR:945:C:H2'	35:AR:946:U:H6	1.74	0.53
35:AR:1103:A:O2'	35:AR:1104:G:OP1	2.25	0.53
35:AR:2549:G:C8	42:CJ:33:ASN:ND2	2.77	0.53
35:AR:2947:G:H2'	35:AR:2948:C:C6	2.43	0.53
35:AR:3047:U:O2'	35:AR:3048:A:H5'	2.09	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:3113:A:H2'	35:AR:3114:A:O4'	2.09	0.53
41:CI:223:PHE:HE2	53:CU:35:VAL:HG11	1.74	0.53
42:CJ:248:LYS:O	42:CJ:252:ASN:ND2	2.42	0.53
57:CY:13:ILE:HG12	57:CY:32:GLN:HB2	1.91	0.53
64:DM:62:ALA:C	64:DM:66:ILE:HD12	2.33	0.53
70:sM:68:ARG:HD3	70:sM:69:ARG:H	1.74	0.53
1:sR:381:C:H5"	6:s4:10:LYS:HD3	1.91	0.53
1:sR:1001:A:H2'	1:sR:1002:G:C8	2.44	0.53
1:sR:1230:A:C8	1:sR:1258:U:C2	2.97	0.53
1:sR:1648:A:H2'	1:sR:1649:G:C8	2.44	0.53
5:s3:191:ASP:HB3	5:s3:194:LYS:HB2	1.91	0.53
1:A:1402:G:O5'	18:S:4:VAL:HG23	2.09	0.53
2:B:108:THR:HA	4:D:64:LYS:HZ3	1.72	0.53
3:C:38:PHE:CD1	3:C:73:LEU:HD11	2.44	0.53
6:F:200:ARG:HH21	6:F:202:ASP:CG	2.17	0.53
12:L:27:PHE:CD1	12:L:40:LEU:HG	2.39	0.53
15:P:20:TYR:HA	15:P:84:ARG:O	2.08	0.53
25:Z:28:LEU:HD12	25:Z:67:GLY:O	2.09	0.53
30:AD:17:VAL:HG13	30:AD:95:ALA:HA	1.91	0.53
35:1:314:U:H2'	35:1:315:C:C6	2.43	0.53
35:1:429:U:OP2	80:1:3541:OHX:N2	2.42	0.53
35:1:2103:U:H2'	35:1:2104:A:H8	1.71	0.53
35:1:2505:U:H2'	35:1:2506:U:H6	1.72	0.53
36:3:118:A:H5"	39:m:253:PHE:CZ	2.44	0.53
44:r:193:ASP:OD1	44:r:194:GLY:N	2.41	0.53
45:s:46:VAL:HG12	70:i:25:ILE:CG2	2.39	0.53
47:u:36:VAL:HG21	47:u:55:ARG:HH21	1.73	0.53
27:9:88:GLU:N	27:9:88:GLU:OE1	2.42	0.53
64:AL:26:LYS:CD	64:AL:28:ASN:HD21	2.22	0.53
64:AL:26:LYS:HD2	64:AL:28:ASN:HD21	1.73	0.53
35:AR:47:C:H5"	46:CN:16:LYS:HG2	1.91	0.53
35:AR:58:G:H5"	48:CP:154:PRO:HB2	1.91	0.53
35:AR:848:A:C2	1:sR:973:A:H5'	2.44	0.53
35:AR:996:A:H2'	35:AR:997:A:O4'	2.09	0.53
35:AR:1027:A:N7	35:AR:1029:G:N3	2.57	0.53
80:AR:3455:OHX:N5	48:CP:32:GLN:O	2.42	0.53
38:CF:125:ALA:HB1	38:CF:238:LEU:HB3	1.91	0.53
39:CG:86:TYR:CD2	39:CG:247:ILE:HG12	2.44	0.53
39:CG:107:ARG:NH1	39:CG:120:LYS:O	2.41	0.53
41:CI:142:SER:O	41:CI:146:GLN:HG3	2.09	0.53
48:CP:70:ASN:HB3	48:CP:92:LEU:O	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:CY:6:ASP:HA	57:CY:13:ILE:HD11	1.91	0.53
79:h:170:ILE:HD13	79:h:202:LEU:HD13	1.90	0.53
79:h:299:GLN:HE21	79:h:315:VAL:HG21	1.73	0.53
1:sR:71:A:C2	1:sR:81:G:C2	2.97	0.53
1:sR:518:A:O2'	1:sR:519:C:H5"	2.08	0.53
1:sR:585:A:P	77:e0:15:LYS:HZ1	2.32	0.53
1:sR:1158:C:OP2	80:sR:1996:OHX:N3	2.42	0.53
1:sR:1163:A:H2'	1:sR:1164:G:O4'	2.09	0.53
1:sR:1230:A:C5	1:sR:1231:U:H1'	2.44	0.53
9:s7:67:LEU:HG	9:s7:71:HIS:CD2	2.44	0.53
10:s8:98:LYS:HG3	10:s8:171:SER:O	2.08	0.53
16:c5:108:ARG:HB3	16:c5:110:GLU:OE1	2.09	0.53
19:c8:2:SER:HG	72:d5:82:HIS:HD1	1.57	0.53
19:c8:63:GLN:HA	19:c8:66:LEU:CB	2.39	0.53
24:d3:68:ILE:O	24:d3:70:LYS:NZ	2.37	0.53
1:A:67:A:H3'	1:A:69:G:C8	2.44	0.52
1:A:327:U:H2'	1:A:328:A:C8	2.44	0.52
1:A:682:C:H2'	1:A:683:C:C6	2.40	0.52
1:A:1458:G:H5"	1:A:1459:C:OP2	2.09	0.52
5:E:41:VAL:HG11	21:V:112:VAL:O	2.08	0.52
19:T:47:CYS:HB3	19:T:54:LEU:CD2	2.37	0.52
20:U:139:THR:O	20:U:142:GLU:HB3	2.10	0.52
26:DB:104:PRO:O	26:DB:105:SER:C	2.52	0.52
28:DC:26:ARG:NH2	35:AR:939:U:OP2	2.42	0.52
33:CE:233:TRP:CD1	33:CE:265:ALA:HB1	2.44	0.52
35:1:917:A:OP2	80:1:3617:OHX:N4	2.43	0.52
35:1:1035:G:H3'	35:1:1036:A:H8	1.75	0.52
35:1:1796:G:N7	80:1:4182:OHX:N1	2.57	0.52
35:1:2701:U:OP2	54:2:22:HIS:ND1	2.32	0.52
38:l:40:THR:O	38:l:44:LYS:HE2	2.08	0.52
42:p:82:LEU:HD12	42:p:178:ALA:HB1	1.90	0.52
48:v:24:ARG:HH11	48:v:24:ARG:HG2	1.74	0.52
59:AG:74:THR:HA	59:AG:81:VAL:HG12	1.90	0.52
68:AP:46:LYS:HD3	68:AP:54:THR:OG1	2.09	0.52
35:AR:398:A:O2'	35:AR:1416:C:OP1	2.21	0.52
35:AR:816:A:OP2	63:DL:28:HIS:HE1	1.92	0.52
35:AR:860:G:O2'	35:AR:895:A:H4'	2.09	0.52
35:AR:1063:G:N1	54:CV:109:VAL:HG23	2.24	0.52
35:AR:1236:G:N2	35:AR:1244:A:OP1	2.41	0.52
35:AR:1249:G:H2'	35:AR:1250:G:C8	2.43	0.52
35:AR:1722:U:O4'	52:CT:96:ILE:HG22	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:2150:G:N2	35:AR:2313:A:H2	2.08	0.52
35:AR:2389:C:H2'	35:AR:2390:A:C8	2.43	0.52
36:AS:84:A:H2'	36:AS:85:G:C8	2.45	0.52
37:AT:141:C:H2'	37:AT:142:C:H6	1.73	0.52
42:CJ:34:PHE:CE1	42:CJ:42:PRO:HD3	2.45	0.52
43:CK:28:VAL:HG12	43:CK:33:THR:HB	1.91	0.52
48:CP:47:LYS:HD2	48:CP:50:ARG:HE	1.73	0.52
48:CP:153:ASP:OD1	48:CP:155:VAL:HG12	2.09	0.52
50:CR:28:ASN:O	50:CR:32:THR:HG23	2.08	0.52
52:CT:167:ARG:HA	52:CT:170:ARG:CB	2.39	0.52
1:sR:1003:A:H4'	1:sR:1004:U:O5'	2.09	0.52
1:sR:1080:U:O2'	1:sR:1081:A:H5'	2.09	0.52
1:sR:1294:G:O2'	1:sR:1321:A:N1	2.34	0.52
1:sR:1642:G:O6	80:sR:1903:OHX:N2	2.42	0.52
4:s2:45:VAL:HG13	4:s2:72:LEU:HD11	1.91	0.52
5:s3:20:GLU:OE2	5:s3:76:ARG:NH2	2.41	0.52
11:s9:29:LYS:HZ3	11:s9:33:GLU:CD	2.16	0.52
16:c5:25:LEU:O	16:c5:28:MET:HB2	2.10	0.52
1:A:891:A:H2'	1:A:892:A:H8	1.75	0.52
1:A:1018:U:H2'	1:A:1019:A:H8	1.74	0.52
1:A:1248:C:H2'	1:A:1249:U:H6	1.74	0.52
1:A:1754:A:O2'	80:A:2128:OHX:N3	2.42	0.52
2:B:147:THR:HG21	2:B:159:ALA:HB1	1.91	0.52
3:C:191:GLU:HG2	3:C:191:GLU:O	2.10	0.52
4:D:56:ILE:CG2	4:D:61:LEU:HB2	2.38	0.52
4:D:58:LEU:CD1	22:W:14:PRO:HA	2.39	0.52
4:D:186:LYS:HA	4:D:189:GLN:HB2	1.91	0.52
6:F:18:TRP:HB3	6:F:20:LEU:CD2	2.36	0.52
6:F:140:VAL:HG12	6:F:146:THR:HG22	1.90	0.52
7:G:46:TRP:CZ3	7:G:118:LEU:HG	2.45	0.52
14:O:20:ARG:O	14:O:65:VAL:HG13	2.09	0.52
15:P:52:ARG:HD3	15:P:53:ASP:OD1	2.09	0.52
17:R:73:GLY:H	17:R:76:SER:HB2	1.75	0.52
20:U:101:ASN:HA	20:U:104:VAL:CG1	2.39	0.52
23:X:55:ASP:OD1	23:X:59:GLY:HA2	2.10	0.52
26:DB:40:HIS:N	26:DB:77:TYR:HE1	2.07	0.52
26:DB:48:ARG:HB3	26:DB:69:LYS:HB3	1.90	0.52
35:1:41:G:N7	83:1:4106:SPD:N1	2.56	0.52
35:1:623:U:OP1	80:1:4180:OHX:N3	2.42	0.52
35:1:776:U:H5	35:1:2719:U:O2	1.92	0.52
35:1:3295:A:H2'	35:1:3296:A:H8	1.74	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:j:10:LYS:HA	31:j:16:PHE:CD2	2.44	0.52
31:j:42:ARG:HG3	31:j:89:TYR:CE2	2.44	0.52
31:j:65:ASP:HB3	31:j:68:LYS:O	2.09	0.52
38:l:207:VAL:HG12	38:l:249:ILE:HB	1.91	0.52
39:m:43:LYS:C	39:m:44:TYR:HD1	2.17	0.52
40:n:42:LEU:HD23	40:n:47:PHE:HB2	1.92	0.52
45:s:153:LYS:HG3	45:s:154:THR:H	1.74	0.52
46:t:49:ARG:HG2	61:AI:116:TYR:CD1	2.44	0.52
47:u:103:ILE:HD13	47:u:106:ARG:NH1	2.25	0.52
55:5:53:ALA:O	55:5:68:THR:HG22	2.09	0.52
61:AI:27:GLU:O	61:AI:31:LEU:HD12	2.09	0.52
35:AR:1017:C:N4	35:AR:2671:A:OP1	2.42	0.52
35:AR:1018:G:H4'	70:sM:46:LYS:HA	1.91	0.52
35:AR:1503:A:C4	35:AR:1504:A:C8	2.97	0.52
35:AR:1602:A:OP2	52:CT:38:ARG:HG3	2.09	0.52
37:AT:77:A:OP2	80:AT:208:OHX:N1	2.41	0.52
38:CF:135:VAL:O	38:CF:140:HIS:HB2	2.09	0.52
43:CK:151:VAL:O	43:CK:155:SER:OG	2.20	0.52
45:CM:80:LEU:HG	45:CM:84:LEU:HD11	1.91	0.52
50:CR:108:ASP:HB3	50:CR:111:LYS:HB2	1.91	0.52
50:CR:111:LYS:HB3	50:CR:152:GLU:HB3	1.91	0.52
52:CT:23:TRP:CE3	52:CT:51:VAL:HG22	2.44	0.52
52:CT:96:ILE:O	52:CT:100:ARG:HG3	2.08	0.52
56:CX:89:ASP:OD1	56:CX:91:VAL:HG22	2.10	0.52
57:CY:23:ARG:N	57:CY:27:LYS:O	2.30	0.52
62:DK:34:SER:OG	62:DK:37:THR:HG23	2.09	0.52
71:p0:36:GLN:HA	71:p0:39:HIS:HB2	1.90	0.52
74:c:8:LEU:H	74:c:8:LEU:HD12	1.75	0.52
79:h:278:PHE:HD2	79:h:286:GLU:HG2	1.74	0.52
1:sR:151:G:H2'	1:sR:152:U:C6	2.45	0.52
1:sR:186:C:H2'	1:sR:187:G:O4'	2.09	0.52
1:sR:487:G:H3'	1:sR:488:G:C5'	2.40	0.52
1:sR:845:G:H2'	1:sR:846:G:C8	2.44	0.52
1:sR:1796:C:OP2	73:d6:5:ARG:NH1	2.42	0.52
3:s1:144:ARG:HB3	3:s1:206:PRO:HB2	1.91	0.52
3:s1:197:ILE:HD11	3:s1:210:ILE:HG22	1.90	0.52
9:s7:73:VAL:CG1	9:s7:74:GLN:H	2.18	0.52
9:s7:169:PHE:HA	9:s7:172:VAL:HG12	1.91	0.52
19:c8:36:LYS:HB3	19:c8:105:VAL:HG11	1.91	0.52
19:c8:120:ARG:HD2	19:c8:120:ARG:N	2.24	0.52
20:c9:127:ASN:O	20:c9:131:ASP:OD1	2.26	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:223:U:H2'	1:A:224:C:C6	2.45	0.52
1:A:224:C:H2'	1:A:225:A:H8	1.73	0.52
1:A:296:U:H2'	1:A:297:U:C6	2.44	0.52
1:A:393:C:H4'	1:A:1673:G:O2'	2.09	0.52
1:A:555:A:H2'	1:A:556:A:C8	2.44	0.52
1:A:973:A:H2'	1:A:974:A:H8	1.74	0.52
1:A:1316:G:H5'	18:S:7:LYS:HD2	1.91	0.52
2:B:165:ARG:HB3	2:B:165:ARG:CZ	2.39	0.52
6:F:126:VAL:HG23	6:F:141:THR:HG22	1.91	0.52
7:G:121:ILE:CG1	7:G:198:LEU:HD11	2.26	0.52
7:G:196:GLU:O	7:G:199:ILE:HG13	2.10	0.52
11:K:73:GLY:O	11:K:77:ILE:HG12	2.09	0.52
11:K:159:ALA:HB1	11:K:160:PRO:HD2	1.91	0.52
12:L:42:VAL:O	12:L:46:LEU:HD22	2.09	0.52
14:O:140:LYS:HE2	35:1:847:A:OP1	2.09	0.52
21:V:24:ILE:O	21:V:90:TYR:HA	2.08	0.52
35:1:947:G:H2'	35:1:948:C:C6	2.45	0.52
35:1:3095:U:H2'	35:1:3096:C:H6	1.75	0.52
35:1:3111:U:OP2	80:1:3418:OHX:N2	2.42	0.52
80:1:4170:OHX:N1	50:x:55:GLN:OE1	2.42	0.52
38:l:355:PHE:CZ	41:o:70:LYS:HD3	2.45	0.52
38:l:362:ASP:C	54:2:150:THR:HG21	2.34	0.52
43:q:59:ASN:OD1	47:u:41:GLN:HG2	2.09	0.52
43:q:92:TYR:HB3	43:q:99:ILE:CD1	2.40	0.52
45:s:171:VAL:HG13	45:s:172:LEU:H	1.74	0.52
55:5:36:TYR:HD2	55:5:83:TYR:CD2	2.26	0.52
35:AR:1249:G:H2'	35:AR:1250:G:H8	1.74	0.52
35:AR:1348:U:H4'	35:AR:1349:G:OP1	2.09	0.52
35:AR:1352:A:H4'	35:AR:1353:U:OP1	2.08	0.52
35:AR:1506:A:H1'	35:AR:1848:G:O6	2.09	0.52
35:AR:2353:G:H5"	50:CR:86:LYS:HB2	1.91	0.52
35:AR:3053:G:H2'	35:AR:3054:U:C6	2.45	0.52
39:CG:257:GLU:HG2	39:CG:257:GLU:O	2.09	0.52
46:CN:55:ARG:O	46:CN:115:ARG:NH2	2.42	0.52
58:CZ:58:ASP:OD1	58:CZ:61:LYS:N	2.41	0.52
60:DI:103:LYS:HD3	60:DI:104:VAL:N	2.24	0.52
69:DR:38:ASP:OD1	69:DR:45:LYS:HG3	2.08	0.52
77:f:27:PRO:O	77:f:29:LYS:NZ	2.29	0.52
1:sR:1169:G:N1	1:sR:1575:G:OP2	2.34	0.52
79:Rb:19:TRP:CB	79:Rb:38:ARG:HG3	2.28	0.52
4:s2:229:LEU:HD21	22:d1:10:GLU:OE1	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:26:THR:O	5:s3:30:ALA:HB2	2.08	0.52
11:s9:77:ILE:HG21	11:s9:91:LYS:HA	1.89	0.52
11:s9:123:HIS:HB3	77:e0:33:ARG:NH1	2.25	0.52
15:c4:84:ARG:HA	15:c4:119:THR:HG22	1.91	0.52
19:c8:129:TRP:HB3	19:c8:131:LEU:HD13	1.91	0.52
25:d4:78:SER:OG	25:d4:81:GLU:OE1	2.27	0.52
1:A:1079:U:H2'	1:A:1080:U:C6	2.44	0.52
1:A:1352:G:H2'	1:A:1353:U:O4'	2.08	0.52
1:A:1722:A:H5"	8:H:75:LEU:HD13	1.91	0.52
2:B:64:ILE:HA	2:B:120:LEU:HD13	1.91	0.52
3:C:168:ILE:O	3:C:172:LEU:HB2	2.09	0.52
5:E:105:MET:HG2	5:E:184:ILE:HG21	1.92	0.52
9:I:167:GLU:HG3	9:I:170:GLN:OE1	2.09	0.52
12:L:28:ASN:N	12:L:40:LEU:HD11	2.24	0.52
17:R:46:PHE:O	17:R:50:GLU:HG3	2.09	0.52
19:T:35:ILE:HB	19:T:38:VAL:HG11	1.92	0.52
21:V:20:ILE:HD11	21:V:95:ALA:N	2.24	0.52
23:X:73:GLY:HA3	23:X:128:PHE:CE1	2.44	0.52
26:DB:46:ILE:HD13	26:DB:68:ILE:HG23	1.91	0.52
31:CD:29:LEU:O	31:CD:123:ARG:NE	2.41	0.52
31:CD:243:THR:OG1	35:AR:2244:A:OP1	2.26	0.52
33:CE:29:VAL:HG22	33:CE:218:ILE:HD13	1.90	0.52
35:1:49:A:OP1	46:t:16:LYS:NZ	2.31	0.52
35:1:1306:G:O2'	35:1:1307:G:H5"	2.09	0.52
35:1:2367:A:H2'	35:1:2368:A:C8	2.44	0.52
35:1:2575:G:H2'	35:1:2576:G:C8	2.45	0.52
33:k:106:TRP:HB2	33:k:133:TYR:CE2	2.45	0.52
39:m:40:HIS:CE1	39:m:42:ALA:HB3	2.44	0.52
41:o:222:HIS:CE1	41:o:224:ILE:HG13	2.45	0.52
42:p:116:VAL:HG11	42:p:121:SER:H	1.75	0.52
42:p:252:ASN:OD1	42:p:253:SER:N	2.43	0.52
52:z:60:LYS:O	52:z:64:ARG:HG3	2.09	0.52
61:AI:92:LEU:HB2	61:AI:96:GLU:OE1	2.09	0.52
35:AR:673:U:H2'	35:AR:674:G:C8	2.44	0.52
35:AR:1615:C:H2'	35:AR:1616:U:C6	2.44	0.52
35:AR:2111:G:H4'	35:AR:2112:U:OP2	2.09	0.52
35:AR:2388:U:O3'	50:CR:80:LYS:NZ	2.42	0.52
35:AR:2503:G:O2'	35:AR:2505:U:O4	2.24	0.52
36:AS:3:U:H2'	36:AS:4:U:H6	1.74	0.52
36:AS:62:U:H5"	39:CG:277:LEU:CD1	2.38	0.52
37:AT:79:A:H5"	37:AT:80:A:OP2	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CF:302:ALA:HB2	51:CS:39:ARG:CZ	2.40	0.52
59:DH:75:HIS:HB2	59:DH:82:ARG:HG2	1.91	0.52
70:sM:38:PRO:HB2	70:sM:42:ALA:HB2	1.90	0.52
79:h:131:ILE:HG12	79:h:154:VAL:HG11	1.92	0.52
79:h:256:THR:HG22	79:h:260:ILE:HA	1.91	0.52
1:sR:159:U:O4	25:d4:116:LYS:HE2	2.09	0.52
1:sR:922:G:H2'	1:sR:923:A:C8	2.44	0.52
1:sR:1255:G:H4'	1:sR:1256:A:OP1	2.10	0.52
1:sR:1491:U:H4'	1:sR:1492:A:C5'	2.39	0.52
1:sR:1499:G:OP1	20:c9:122:ARG:NH1	2.43	0.52
1:sR:1624:C:H2'	1:sR:1625:C:C6	2.45	0.52
7:s5:26:ALA:CB	17:c6:27:GLY:HA3	2.39	0.52
7:s5:163:SER:HB2	75:d8:48:VAL:HG22	1.91	0.52
11:s9:29:LYS:HA	77:e0:40:TYR:CE1	2.45	0.52
17:c6:9:THR:HG21	17:c6:87:LYS:O	2.09	0.52
21:d0:33:GLN:N	21:d0:33:GLN:OE1	2.39	0.52
74:d7:47:PHE:HD1	74:d7:48:SER:H	1.55	0.52
75:d8:42:ARG:NH2	75:d8:58:GLU:O	2.42	0.52
1:A:339:C:P	10:J:10:LYS:HZ3	2.33	0.52
1:A:838:G:H2'	1:A:839:U:C6	2.44	0.52
1:A:1061:A:H2'	1:A:1062:A:H5'	1.92	0.52
1:A:1525:A:H2'	1:A:1526:A:C8	2.44	0.52
2:B:17:LEU:HA	2:B:172:LEU:HD11	1.92	0.52
2:B:55:GLU:OE1	22:W:80:LYS:N	2.42	0.52
7:G:45:LYS:HE2	7:G:46:TRP:NE1	2.25	0.52
11:K:40:LYS:HA	11:K:43:TYR:CD1	2.45	0.52
19:T:63:GLN:HA	19:T:66:LEU:HD21	1.91	0.52
25:Z:87:PRO:HD2	25:Z:90:ARG:HH12	1.75	0.52
26:AA:88:ASP:HB3	26:AA:121:ARG:HH22	1.74	0.52
35:1:638:C:H2'	35:1:639:G:C8	2.44	0.52
35:1:980:A:H2'	35:1:981:U:C1'	2.38	0.52
35:1:1598:G:OP2	60:AH:31:ARG:NH1	2.42	0.52
35:1:1716:U:O2'	35:1:1717:U:H4'	2.09	0.52
35:1:3147:G:HO2'	33:k:104:THR:HG1	1.55	0.52
33:k:35:ASP:OD2	33:k:191:LYS:NZ	2.40	0.52
33:k:286:GLY:HA3	33:k:321:PHE:CZ	2.44	0.52
33:k:293:ASN:HB3	33:k:305:ILE:CD1	2.39	0.52
38:l:283:THR:HG23	38:l:289:ILE:HD11	1.91	0.52
41:o:92:ILE:HD11	51:y:4:ASP:N	2.24	0.52
43:q:50:ASN:HB3	43:q:51:GLN:NE2	2.25	0.52
44:r:189:GLU:HB3	44:r:200:LEU:HB3	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:s:7:ASN:CB	45:s:10:ARG:HB3	2.30	0.52
55:5:38:ILE:O	55:5:50:LEU:HD11	2.10	0.52
58:8:91:ASN:OD1	58:8:94:GLN:HG3	2.09	0.52
59:AG:8:TYR:CZ	59:AG:99:ARG:HD3	2.44	0.52
35:AR:127:G:OP2	48:CP:144:ARG:NH2	2.42	0.52
35:AR:145:G:OP1	87:AR:4303:HOH:O	2.19	0.52
35:AR:1215:U:H2'	35:AR:1216:C:C6	2.45	0.52
35:AR:2376:G:H2'	35:AR:2377:G:C8	2.45	0.52
35:AR:3128:G:OP2	80:AR:3652:OHX:N5	2.42	0.52
35:AR:3214:U:H4'	59:DH:3:GLU:HG2	1.91	0.52
41:CI:53:LYS:O	41:CI:57:THR:HG23	2.09	0.52
47:CO:113:THR:HG22	47:CO:116:GLU:OE1	2.09	0.52
58:CZ:96:LYS:O	58:CZ:100:LYS:HB2	2.10	0.52
1:sR:600:U:OP2	24:d3:108:GLY:HA2	2.09	0.52
1:sR:674:C:H2'	1:sR:675:U:C6	2.44	0.52
1:sR:679:U:H2'	1:sR:680:U:H4'	1.92	0.52
1:sR:800:U:H2'	1:sR:801:G:C8	2.45	0.52
1:sR:841:U:H2'	1:sR:842:C:C6	2.44	0.52
1:sR:1459:C:OP1	19:c8:126:ARG:NH2	2.40	0.52
1:sR:1542:G:H5"	20:c9:87:GLY:C	2.34	0.52
7:s5:161:ASP:CG	75:d8:56:LEU:HG	2.35	0.52
19:c8:11:PHE:CE2	72:d5:41:ILE:HG21	2.44	0.52
19:c8:35:ILE:O	19:c8:38:VAL:HG22	2.09	0.52
20:c9:9:VAL:HG21	20:c9:14:PHE:CD2	2.44	0.52
1:A:258:C:O4'	10:J:64:ASN:ND2	2.31	0.52
1:A:788:A:H2'	6:F:19:LEU:CD1	2.39	0.52
1:A:890:C:H2'	1:A:891:A:C8	2.45	0.52
1:A:894:U:H2'	1:A:895:G:C8	2.44	0.52
9:I:91:ILE:HD13	9:I:129:LEU:O	2.09	0.52
9:I:97:ARG:O	9:I:116:ARG:HB3	2.09	0.52
10:J:38:ILE:HA	10:J:60:ILE:O	2.10	0.52
19:T:49:LYS:NZ	19:T:79:TYR:O	2.43	0.52
21:V:28:SER:HB2	21:V:112:VAL:HG12	1.91	0.52
22:W:74:GLN:HE22	22:W:81:ASN:HA	1.74	0.52
23:X:3:ARG:HH11	23:X:3:ARG:CB	2.22	0.52
31:CD:90:ALA:CB	31:CD:101:VAL:HG22	2.39	0.52
35:1:1566:A:H2'	35:1:1573:G:O6	2.09	0.52
36:3:118:A:H5"	39:m:253:PHE:HZ	1.75	0.52
50:x:47:TYR:O	50:x:51:VAL:HG13	2.10	0.52
52:z:90:PRO:O	52:z:93:VAL:HG12	2.10	0.52
53:0:13:ARG:HG2	53:0:51:VAL:CG1	2.40	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:9:63:LYS:O	27:9:66:GLN:HG3	2.09	0.52
68:AP:48:SER:O	80:AP:502:OHX:N6	2.43	0.52
35:AR:271:C:OP1	80:AR:3577:OHX:N6	2.43	0.52
35:AR:1120:A:H2'	35:AR:1121:U:C6	2.44	0.52
35:AR:1813:A:H2'	35:AR:1814:A:H5"	1.92	0.52
35:AR:2112:U:O2	80:AR:3477:OHX:N5	2.43	0.52
35:AR:2155:G:H2'	35:AR:2156:C:C6	2.44	0.52
35:AR:2718:U:H2'	35:AR:2719:U:C6	2.44	0.52
35:AR:2923:U:O4	80:AR:3562:OHX:N4	2.43	0.52
36:AS:115:G:N2	39:CG:72:ASP:O	2.34	0.52
42:CJ:97:TYR:HB3	42:CJ:131:ALA:HA	1.92	0.52
51:CS:98:LYS:HG2	51:CS:98:LYS:O	2.08	0.52
58:CZ:131:ASP:O	58:CZ:135:ILE:HG12	2.10	0.52
62:DK:79:SER:OG	62:DK:80:PHE:N	2.41	0.52
78:g:103:LEU:HG	78:g:105:TYR:HD1	1.75	0.52
79:h:127:ARG:HG2	79:h:150:TRP:CE2	2.45	0.52
1:sR:176:C:C2'	1:sR:177:U:H5'	2.40	0.52
1:sR:248:U:H4'	13:c1:36:LYS:HD3	1.91	0.52
1:sR:1180:C:H1'	16:c5:128:HIS:HE1	1.75	0.52
1:sR:1580:C:H4'	17:c6:137:ARG:HB2	1.91	0.52
1:sR:1584:G:N2	1:sR:1611:A:OP2	2.31	0.52
2:s0:150:ASP:OD1	2:s0:165:ARG:NH2	2.42	0.52
5:s3:172:THR:HA	5:s3:184:ILE:O	2.09	0.52
8:s6:12:SER:HB2	8:s6:124:LEU:HD12	1.91	0.52
15:c4:61:MET:HG3	15:c4:62:LEU:N	2.24	0.52
72:d5:58:ARG:HA	72:d5:103:ARG:HB3	1.92	0.52
73:d6:51:ARG:NH2	75:d8:60:GLU:OE2	2.40	0.52
1:A:1:U:O2	1:A:369:A:H2'	2.09	0.52
1:A:116:U:H2'	1:A:117:U:C6	2.44	0.52
1:A:577:G:N1	70:i:99:LYS:HG2	2.25	0.52
1:A:838:G:N7	80:A:1907:OHX:N3	2.57	0.52
1:A:1533:C:P	19:T:27:LYS:HZ1	2.32	0.52
1:A:1648:A:H2'	1:A:1649:G:H8	1.75	0.52
2:B:142:PRO:HB3	22:W:34:ILE:HD11	1.92	0.52
3:C:229:MET:HA	3:C:229:MET:HE3	1.92	0.52
4:D:42:GLY:HA2	4:D:68:ILE:CD1	2.40	0.52
5:E:120:TYR:HA	5:E:123:VAL:HG12	1.90	0.52
14:O:101:HIS:HA	14:O:104:ARG:HH21	1.74	0.52
15:P:13:VAL:HG12	15:P:77:THR:HG23	1.91	0.52
16:Q:110:GLU:OE2	16:Q:110:GLU:N	2.23	0.52
28:AB:59:ARG:NH1	35:1:283:G:O2'	2.35	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AB:119:PRO:HD3	51:y:94:PHE:CE2	2.44	0.52
31:CD:230:VAL:HG21	35:AR:2424:A:N1	2.25	0.52
35:1:721:G:H2'	35:1:722:G:H8	1.74	0.52
35:1:2808:A:H8	35:1:2808:A:H5'	1.75	0.52
35:1:3252:G:H2'	35:1:3253:G:C8	2.44	0.52
36:3:109:G:H5"	39:m:279:LYS:NZ	2.25	0.52
33:k:41:VAL:HA	33:k:185:GLY:HA3	1.91	0.52
39:m:88:ILE:HG12	39:m:240:TYR:CE1	2.44	0.52
42:p:109:LEU:HA	42:p:112:GLU:HG2	1.90	0.52
42:p:221:ASN:O	42:p:225:LYS:HE3	2.09	0.52
45:s:37:LEU:CD2	45:s:37:LEU:N	2.72	0.52
47:u:13:ARG:HG3	53:0:172:TYR:O	2.10	0.52
57:7:35:LYS:HE3	57:7:51:TRP:CZ2	2.45	0.52
35:AR:143:G:OP2	80:AR:3520:OHX:N4	2.43	0.52
35:AR:745:C:H2'	35:AR:746:A:C8	2.44	0.52
35:AR:1144:U:H1'	35:AR:1145:G:C8	2.45	0.52
35:AR:1563:C:H2'	35:AR:1564:U:C6	2.44	0.52
35:AR:2883:U:H2'	35:AR:2884:C:C6	2.45	0.52
39:CG:234:ASP:OD1	39:CG:234:ASP:N	2.43	0.52
50:CR:21:TYR:H	50:CR:145:HIS:CE1	2.28	0.52
72:a:60:VAL:HA	72:a:64:VAL:HG11	1.92	0.52
75:d:49:ARG:HG2	75:d:52:ASP:OD1	2.08	0.52
1:sR:474:A:OP1	11:s9:145:SER:HB3	2.09	0.52
1:sR:1561:U:H4'	1:sR:1599:C:H4'	1.91	0.52
1:sR:1595:U:OP1	76:d9:32:ARG:HG2	2.10	0.52
79:Rb:158:PRO:O	79:Rb:208:GLY:HA3	2.10	0.52
79:Rb:180:ALA:HB2	79:Rb:192:PHE:CE2	2.45	0.52
6:s4:87:MET:HG2	6:s4:123:LEU:H	1.74	0.52
7:s5:27:THR:O	7:s5:29:ILE:HD12	2.08	0.52
9:s7:37:GLU:HG3	9:s7:72:LYS:HE2	1.91	0.52
11:s9:57:ARG:O	11:s9:61:THR:HG23	2.10	0.52
16:c5:68:PRO:HD2	16:c5:71:GLU:HB2	1.91	0.52
19:c8:76:PRO:HG2	19:c8:86:LEU:HD21	1.90	0.52
23:d2:10:ALA:HB1	23:d2:27:ILE:HD13	1.92	0.52
1:A:562:G:H2'	1:A:563:U:C6	2.45	0.52
7:G:76:ARG:HG3	7:G:76:ARG:HH11	1.75	0.52
7:G:120:ILE:O	7:G:121:ILE:C	2.50	0.52
10:J:104:ILE:O	10:J:164:ARG:HA	2.09	0.52
17:R:38:LEU:HA	17:R:45:ARG:NH1	2.25	0.52
26:DB:73:LYS:HE2	35:AR:1636:U:H5"	1.91	0.52
34:AF:59:SER:OG	35:1:1405:U:OP2	2.28	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:956:U:H2'	35:1:957:C:C6	2.44	0.52
35:1:1062:A:H4'	54:2:105:PHE:CD1	2.45	0.52
35:1:1278:A:O2'	35:1:1279:C:H6	1.92	0.52
35:1:1931:U:O2	80:1:4127:OHX:N1	2.43	0.52
35:1:2619:G:OP2	80:1:3446:OHX:N3	2.43	0.52
35:1:2780:A:H2'	35:1:2781:U:C6	2.44	0.52
37:4:79:A:C3'	37:4:80:A:H4'	2.40	0.52
52:z:13:SER:OG	52:z:38:ARG:NH2	2.43	0.52
60:AH:98:GLN:HB3	60:AH:102:LYS:HZ1	1.74	0.52
70:i:131:ILE:HA	70:i:134:ASP:HB2	1.92	0.52
35:AR:718:G:O6	35:AR:751:A:H1'	2.10	0.52
35:AR:1357:G:H2'	35:AR:1358:C:C6	2.45	0.52
35:AR:2402:A:H5"	38:CF:67:THR:OG1	2.10	0.52
35:AR:2734:A:OP1	80:AR:3549:OHX:N3	2.43	0.52
35:AR:3371:G:H2'	35:AR:3372:A:C8	2.45	0.52
45:CM:75:LYS:HE2	45:CM:75:LYS:HA	1.91	0.52
60:DI:104:VAL:C	60:DI:106:LYS:N	2.62	0.52
72:a:84:GLU:HG3	72:a:89:ILE:HD11	1.91	0.52
79:h:20:VAL:HA	79:h:37:SER:HB2	1.92	0.52
1:sR:531:C:OP2	80:sR:1958:OHX:N5	2.43	0.52
1:sR:715:U:H2'	1:sR:716:C:H6	1.74	0.52
1:sR:1552:U:H2'	1:sR:1553:G:O4'	2.09	0.52
3:s1:72:ASP:OD2	73:d6:59:TYR:OH	2.26	0.52
7:s5:94:THR:CG2	7:s5:114:ILE:HG12	2.40	0.52
20:c9:6:VAL:HB	20:c9:66:TYR:CE2	2.44	0.52
20:c9:61:VAL:O	20:c9:65:ILE:HG13	2.09	0.52
1:A:707:A:C2	1:A:731:C:H2'	2.45	0.52
1:A:851:U:OP1	52:z:172:ARG:NH2	2.43	0.52
1:A:891:A:H2'	1:A:892:A:C8	2.45	0.52
1:A:986:G:H2'	1:A:987:G:O4'	2.10	0.52
1:A:1011:G:HO2'	1:A:1012:U:H6	1.54	0.52
1:A:1292:G:H2'	1:A:1293:U:C6	2.44	0.52
4:D:165:VAL:HG21	4:D:210:THR:CA	2.40	0.52
4:D:179:VAL:O	4:D:198:THR:OG1	2.28	0.52
5:E:65:ARG:O	5:E:69:LEU:HD12	2.09	0.52
7:G:157:ARG:HB2	7:G:224:ASN:OD1	2.10	0.52
8:H:3:LEU:O	8:H:15:THR:HA	2.10	0.52
9:I:141:ARG:O	9:I:148:LYS:HA	2.10	0.52
11:K:54:ARG:HA	11:K:57:ARG:HE	1.74	0.52
14:O:30:SER:O	14:O:34:ILE:HG23	2.10	0.52
22:W:58:TYR:OH	23:X:19:LYS:O	2.17	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:AA:26:VAL:HG22	26:AA:42:LEU:O	2.09	0.52
26:AA:35:SER:O	26:AA:36:HIS:C	2.53	0.52
27:DA:27:ARG:NH1	27:DA:75:ARG:O	2.41	0.52
28:AB:99:ALA:O	46:t:156:ALA:HA	2.10	0.52
35:1:171:G:H2'	35:1:172:G:O4'	2.10	0.52
35:1:1063:G:C6	54:2:109:VAL:HG23	2.44	0.52
35:1:3013:U:H2'	35:1:3014:U:C6	2.45	0.52
58:8:132:ALA:HA	58:8:135:ILE:HG22	1.92	0.52
68:AP:98:LYS:HG3	68:AP:99:GLN:H	1.75	0.52
35:AR:527:A:OP2	80:AR:4224:OHX:N2	2.43	0.52
35:AR:830:A:OP1	80:AR:3565:OHX:N5	2.43	0.52
35:AR:2592:G:O6	80:AR:3466:OHX:N1	2.42	0.52
38:CF:138:ARG:HH21	38:CF:240:PRO:HD2	1.75	0.52
43:CK:140:VAL:HG12	43:CK:143:GLU:HB2	1.91	0.52
47:CO:32:LEU:HD11	47:CO:94:TRP:CG	2.44	0.52
47:CO:99:TRP:O	47:CO:103:ILE:HG13	2.09	0.52
55:CW:104:ARG:HG2	55:CW:105:LEU:H	1.75	0.52
65:DN:42:ARG:HG2	65:DN:43:ASN:H	1.74	0.52
73:b:36:ILE:O	73:b:36:ILE:HD12	2.10	0.52
79:h:22:SER:OG	79:h:71:CYS:HB2	2.10	0.52
79:h:126:SER:O	79:h:151:VAL:HG22	2.10	0.52
1:sR:768:C:C2	11:s9:143:ILE:HG12	2.45	0.52
1:sR:918:U:H2'	1:sR:919:A:C8	2.44	0.52
1:sR:1398:U:H3'	1:sR:1399:C:H4'	1.92	0.52
1:sR:1424:A:OP2	5:s3:151:LYS:NZ	2.43	0.52
1:sR:1543:A:OP2	80:sR:1972:OHX:N2	2.42	0.52
1:sR:1776:A:H2'	1:sR:1777:G:H8	1.73	0.52
1:sR:1793:G:O2'	73:d6:5:ARG:NH2	2.43	0.52
79:Rb:192:PHE:HB3	79:Rb:223:TRP:CZ2	2.45	0.52
79:Rb:223:TRP:CE3	79:Rb:230:ALA:HB2	2.45	0.52
3:s1:198:GLU:HA	3:s1:201:THR:HG22	1.92	0.52
6:s4:31:PRO:HG2	6:s4:38:LEU:HG	1.91	0.52
9:s7:27:LEU:HD23	9:s7:29:ASN:OD1	2.10	0.52
23:d2:105:THR:OG1	23:d2:126:LEU:HG	2.10	0.52
25:d4:56:SER:HG	25:d4:94:TYR:HH	1.46	0.52
25:d4:100:VAL:O	25:d4:101:GLU:C	2.53	0.52
72:d5:89:ILE:HD13	72:d5:101:TYR:CD1	2.45	0.52
75:d8:42:ARG:NH2	75:d8:61:ARG:HB3	2.24	0.52
77:e0:28:LYS:HE2	77:e0:31:LYS:HE3	1.92	0.52
78:e1:144:CYS:HB2	78:e1:147:VAL:HG22	1.92	0.52
1:A:707:A:H2	1:A:731:C:H2'	1.75	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1230:A:H2'	1:A:1258:U:C5	2.45	0.52
1:A:1533:C:H5'	19:T:27:LYS:HZ1	1.75	0.52
2:B:16:LEU:H	2:B:16:LEU:HD12	1.75	0.52
2:B:109:ASN:O	2:B:112:THR:HG22	2.10	0.52
6:F:87:MET:O	6:F:100:ARG:NH1	2.42	0.52
13:M:73:GLY:HA3	13:M:86:ILE:HD12	1.91	0.52
16:Q:126:VAL:HG13	16:Q:127:ARG:H	1.75	0.52
17:R:48:VAL:O	17:R:51:PRO:HD2	2.10	0.52
19:T:65:GLU:O	19:T:69:ILE:HG13	2.09	0.52
27:DA:120:GLN:HA	27:DA:124:GLY:N	2.25	0.52
28:AB:43:ILE:HG23	35:1:2727:A:C2	2.44	0.52
35:1:259:C:H2'	35:1:260:C:C6	2.46	0.52
35:1:499:G:H2'	35:1:500:C:C6	2.45	0.52
35:1:585:A:H5"	59:AG:70:LYS:HD2	1.92	0.52
35:1:720:A:N3	51:y:69:ARG:NH2	2.58	0.52
35:1:1332:A:H2'	35:1:1333:C:H6	1.75	0.52
35:1:1940:G:H21	35:1:3362:A:H8	1.57	0.52
35:1:2677:G:O2'	35:1:2679:A:N1	2.38	0.52
35:1:2947:G:OP2	35:1:2947:G:H4'	2.09	0.52
35:1:3066:U:H2'	35:1:3067:C:C6	2.44	0.52
37:4:57:C:H4'	37:4:63:G:N7	2.24	0.52
31:j:181:LYS:HE2	31:j:184:ARG:HH11	1.75	0.52
38:l:208:VAL:O	38:l:251:THR:HG23	2.10	0.52
39:m:152:ARG:HB3	39:m:152:ARG:NH1	2.24	0.52
40:n:51:ARG:NH1	47:u:114:ASP:OD2	2.43	0.52
48:v:135:VAL:HG21	48:v:151:ILE:HG21	1.92	0.52
49:w:31:GLN:HE21	49:w:32:LYS:N	2.07	0.52
49:w:188:SER:O	49:w:192:LYS:HG3	2.10	0.52
60:AH:38:LEU:HD12	60:AH:38:LEU:H	1.75	0.52
35:AR:68:C:O3'	48:CP:177:GLY:HA2	2.10	0.52
35:AR:158:G:N2	35:AR:264:G:H1'	2.25	0.52
35:AR:871:U:H2'	35:AR:872:U:C6	2.45	0.52
35:AR:1621:A:H2'	35:AR:1622:U:H6	1.75	0.52
35:AR:2352:A:H5"	50:CR:83:TRP:O	2.10	0.52
35:AR:2367:A:H2'	35:AR:2368:A:C8	2.45	0.52
35:AR:2656:A:OP2	68:DQ:97:LYS:HB3	2.10	0.52
35:AR:3283:U:H2'	35:AR:3284:G:C8	2.45	0.52
35:AR:3298:C:C2	35:AR:3299:A:C8	2.98	0.52
37:AT:63:G:H1	37:AT:97:A:H61	1.58	0.52
38:CF:300:ARG:HB3	38:CF:301:PRO:HD2	1.91	0.52
39:CG:111:GLN:CA	39:CG:116:ASP:HB3	2.38	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CG:184:ASP:HB3	39:CG:187:THR:HG22	1.91	0.52
42:CJ:196:ALA:O	42:CJ:197:VAL:HG23	2.11	0.52
44:CL:66:GLU:OE1	44:CL:69:ARG:NH2	2.43	0.52
44:CL:140:THR:HG21	44:CL:144:ASN:HB3	1.92	0.52
50:CR:131:ARG:HG3	50:CR:137:ASN:ND2	2.25	0.52
58:CZ:38:LEU:HD21	58:CZ:40:LEU:HG	1.91	0.52
77:f:35:TYR:O	77:f:39:LEU:HD12	2.10	0.52
78:g:126:CYS:HB3	78:g:130:VAL:CG2	2.37	0.52
1:sR:191:C:O2'	1:sR:192:U:O5'	2.28	0.52
1:sR:958:U:H2'	14:c3:14:SER:OG	2.09	0.52
1:sR:1241:G:H3'	1:sR:1242:A:H8	1.74	0.52
79:Rb:85:TRP:CZ3	18:c7:29:GLN:HB3	2.45	0.52
79:Rb:221:MET:HA	79:Rb:233:THR:OG1	2.10	0.52
7:s5:41:LYS:HB2	7:s5:69:PHE:CE1	2.45	0.52
7:s5:57:SER:O	7:s5:58:LEU:HD23	2.09	0.52
10:s8:113:PHE:CE2	10:s8:121:LEU:HD11	2.45	0.52
10:s8:137:LYS:HA	10:s8:140:GLU:OE1	2.10	0.52
19:c8:127:HIS:CD2	19:c8:133:VAL:HG11	2.45	0.52
25:d4:29:HIS:CE1	25:d4:69:SER:HG	2.27	0.52
1:A:208:U:O2'	10:J:180:ASP:OD2	2.24	0.51
1:A:319:U:H1'	1:A:323:A:C8	2.45	0.51
1:A:600:U:OP2	24:Y:108:GLY:HA2	2.10	0.51
1:A:1206:U:OP1	80:A:1922:OHX:N6	2.42	0.51
5:E:142:LEU:HG	5:E:182:LEU:HD21	1.92	0.51
7:G:124:LEU:O	72:a:58:ARG:NH1	2.43	0.51
13:M:75:VAL:HG13	13:M:120:GLY:H	1.75	0.51
19:T:46:VAL:HB	19:T:72:ILE:HG21	1.92	0.51
19:T:58:ALA:C	19:T:61:LEU:HD23	2.35	0.51
23:X:77:PRO:HG2	23:X:79:PHE:CE1	2.45	0.51
24:Y:41:SER:O	24:Y:41:SER:OG	2.24	0.51
28:AB:85:ASP:OD1	28:AB:86:LYS:HD2	2.10	0.51
35:1:29:C:H4'	35:1:62:A:H4'	1.92	0.51
35:1:1222:G:HO2'	35:1:1285:G:H22	1.56	0.51
35:1:1898:G:OP2	80:1:4134:OHX:N5	2.42	0.51
35:1:2093:A:H3'	35:1:2093:A:N3	2.25	0.51
35:1:2565:U:H2'	35:1:2566:C:C6	2.45	0.51
35:1:2828:G:P	44:r:7:ARG:HH12	2.33	0.51
37:4:67:U:H2'	37:4:68:G:H8	1.75	0.51
35:AR:611:A:N3	40:CH:23:LYS:HD2	2.26	0.51
35:AR:1716:U:O2'	35:AR:1717:U:H4'	2.10	0.51
35:AR:2666:C:H5"	70:sM:30:THR:HG23	1.91	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:3238:G:N7	80:AR:3489:OHX:N2	2.58	0.51
38:CF:33:ASP:O	38:CF:37:THR:HG23	2.10	0.51
39:CG:20:PHE:O	39:CG:21:ARG:HB2	2.10	0.51
42:CJ:189:LEU:HD23	42:CJ:189:LEU:H	1.75	0.51
44:CL:74:LYS:O	44:CL:78:THR:HG23	2.10	0.51
44:CL:200:LEU:HB2	44:CL:213:PHE:CE1	2.45	0.51
53:CU:8:GLN:OE1	53:CU:62:ASN:ND2	2.43	0.51
60:DI:103:LYS:CE	60:DI:104:VAL:HG12	2.40	0.51
77:f:43:ARG:NH2	77:f:56:MET:SD	2.83	0.51
78:g:108:VAL:HG23	78:g:113:LYS:C	2.35	0.51
1:sR:161:U:OP2	8:s6:87:ARG:NH2	2.41	0.51
1:sR:170:U:H3	1:sR:289:U:HO2'	1.56	0.51
1:sR:894:U:H2'	1:sR:895:G:H8	1.70	0.51
1:sR:978:A:H2'	1:sR:979:A:O4'	2.10	0.51
1:sR:1217:A:H5"	12:c0:1:MET:SD	2.50	0.51
1:sR:1532:U:P	72:d5:77:ARG:HH12	2.32	0.51
2:s0:50:VAL:HG22	18:c7:109:LEU:HD11	1.91	0.51
3:s1:171:ILE:HD13	3:s1:197:ILE:HG22	1.92	0.51
3:s1:194:ASN:ND2	3:s1:211:HIS:HA	2.25	0.51
5:s3:126:VAL:HG21	5:s3:188:ILE:HG21	1.92	0.51
7:s5:97:LEU:O	7:s5:180:ARG:NH1	2.43	0.51
10:s8:25:ARG:HD3	10:s8:27:PHE:CE2	2.44	0.51
11:s9:158:PHE:HD2	11:s9:164:PHE:HB3	1.72	0.51
15:c4:113:GLY:HA3	73:d6:59:TYR:HD2	1.75	0.51
17:c6:80:ALA:O	17:c6:84:ALA:HB2	2.09	0.51
76:d9:6:VAL:O	76:d9:7:TRP:CD2	2.64	0.51
1:A:398:G:P	10:J:47:ARG:HH12	2.33	0.51
1:A:848:C:H2'	1:A:849:C:C6	2.45	0.51
1:A:887:A:H2'	1:A:888:U:C6	2.46	0.51
1:A:947:U:OP1	3:C:165:ARG:HD2	2.10	0.51
1:A:1445:G:C2	78:g:91:ILE:HB	2.45	0.51
3:C:78:ASP:OD1	3:C:78:ASP:N	2.43	0.51
5:E:74:GLN:NE2	5:E:81:PRO:HA	2.25	0.51
6:F:118:GLU:HA	6:F:121:TYR:CE1	2.45	0.51
6:F:244:ILE:HG22	6:F:244:ILE:O	2.09	0.51
7:G:186:ASN:OD1	7:G:188:LYS:HB2	2.10	0.51
11:K:110:GLN:HA	11:K:129:ILE:HD11	1.92	0.51
13:M:46:LYS:O	13:M:50:GLU:HG3	2.10	0.51
16:Q:31:GLU:O	16:Q:35:LYS:HG3	2.10	0.51
26:DB:47:GLU:HB2	26:DB:71:PHE:HB3	1.90	0.51
35:1:263:C:H2'	35:1:264:G:O4'	2.09	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2150:G:H4'	69:AQ:22:LEU:HD21	1.92	0.51
35:1:2376:G:H2'	35:1:2377:G:C8	2.45	0.51
35:1:2563:G:H5"	42:p:27:THR:CG2	2.39	0.51
35:1:2765:C:O3'	68:AP:39:GLY:HA3	2.10	0.51
35:1:3096:C:H2'	35:1:3097:C:C6	2.45	0.51
35:1:3298:C:C2	35:1:3299:A:C8	2.98	0.51
36:3:53:U:H1'	45:s:9:MET:CE	2.40	0.51
36:3:90:U:H2'	36:3:91:G:O4'	2.10	0.51
37:4:146:U:H2'	37:4:147:U:C6	2.45	0.51
37:4:154:C:O2'	42:p:185:ARG:HD2	2.09	0.51
33:k:10:ARG:HG2	33:k:11:HIS:N	2.25	0.51
42:p:213:LYS:O	42:p:216:SER:OG	2.28	0.51
44:r:139:ARG:HB3	44:r:173:PHE:CE1	2.45	0.51
48:v:11:GLN:O	48:v:14:LYS:NZ	2.41	0.51
50:x:184:ALA:HA	80:x:209:OHX:N5	2.25	0.51
52:z:138:LEU:O	52:z:142:ILE:HD12	2.10	0.51
61:AI:28:LEU:HA	61:AI:31:LEU:HD13	1.93	0.51
35:AR:192:C:H2'	35:AR:193:C:C6	2.45	0.51
35:AR:595:G:C8	35:AR:609:G:C6	2.97	0.51
35:AR:1454:A:OP2	80:AR:3701:OHX:N4	2.43	0.51
35:AR:2561:A:N3	42:CJ:32:LYS:HE3	2.24	0.51
35:AR:2611:U:H2'	35:AR:2612:U:C6	2.45	0.51
35:AR:3051:U:H2'	35:AR:3052:G:H8	1.74	0.51
37:AT:26:U:H2'	37:AT:27:U:C6	2.45	0.51
37:AT:77:A:H2'	37:AT:78:G:O4'	2.11	0.51
45:CM:60:ARG:NH1	68:DQ:106:PHE:H	2.08	0.51
46:CN:168:ARG:NH2	46:CN:172:LEU:HD11	2.25	0.51
51:CS:170:ARG:O	51:CS:171:LYS:HB2	2.09	0.51
52:CT:46:LYS:HD2	52:CT:46:LYS:C	2.35	0.51
55:CW:87:ASN:HB2	55:CW:89:LEU:HG	1.92	0.51
59:DH:47:LYS:NZ	59:DH:104:PRO:O	2.34	0.51
73:b:87:ARG:NE	73:b:92:ARG:HA	2.07	0.51
79:h:245:PHE:CE1	79:h:252:LEU:HD22	2.45	0.51
79:h:304:GLY:HA2	79:h:310:ILE:HG22	1.92	0.51
1:sR:71:A:H2'	1:sR:72:A:C4'	2.40	0.51
1:sR:416:A:H5'	1:sR:417:A:N7	2.25	0.51
1:sR:823:G:H2'	1:sR:824:G:O4'	2.10	0.51
1:sR:1401:A:O3'	18:c7:10:LYS:NZ	2.42	0.51
3:s1:214:LYS:HG2	3:s1:215:VAL:N	2.25	0.51
4:s2:122:ALA:O	4:s2:125:ILE:HG13	2.10	0.51
9:s7:135:ILE:H	9:s7:135:ILE:HD12	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:71:PHE:C	11:s9:71:PHE:CD1	2.86	0.51
14:c3:38:VAL:HG11	14:c3:78:ASN:ND2	2.25	0.51
16:c5:90:ILE:HA	16:c5:107:ILE:HG22	1.93	0.51
1:A:239:C:O2'	1:A:240:U:O4'	2.22	0.51
1:A:404:G:H2'	1:A:405:C:C6	2.45	0.51
1:A:498:G:O2'	1:A:499:U:O5'	2.26	0.51
1:A:747:C:H2'	1:A:748:U:H6	1.75	0.51
1:A:983:A:OP1	80:A:2144:OHX:N6	2.44	0.51
1:A:1214:U:OP1	1:A:1246:C:H1'	2.10	0.51
1:A:1359:C:P	20:U:134:ARG:HH21	2.34	0.51
1:A:1739:C:H2'	1:A:1740:A:C8	2.45	0.51
2:B:36:TYR:CG	2:B:161:PRO:HG3	2.46	0.51
3:C:129:THR:HG22	3:C:176:VAL:O	2.11	0.51
3:C:145:LYS:HA	3:C:149:GLN:NE2	2.25	0.51
6:F:180:LEU:CD1	6:F:194:THR:HG22	2.39	0.51
7:G:135:ASP:O	7:G:139:ASN:ND2	2.43	0.51
14:O:130:ARG:HD3	14:O:137:PRO:O	2.10	0.51
18:S:74:GLN:HA	18:S:77:GLU:HG2	1.91	0.51
20:U:101:ASN:O	20:U:104:VAL:HG12	2.10	0.51
27:DA:110:HIS:H	27:DA:115:ARG:NH1	2.08	0.51
28:AB:8:THR:HG21	35:1:662:U:OP1	2.11	0.51
26:DB:87:LEU:HD21	26:DB:127:ASN:HB2	1.92	0.51
28:DC:77:LYS:NZ	35:AR:785:G:N7	2.55	0.51
34:AF:27:ARG:NH1	35:1:1433:A:N3	2.58	0.51
35:1:929:A:H2'	35:1:930:U:C6	2.46	0.51
35:1:1104:G:H8	35:1:1104:G:O5'	1.93	0.51
35:1:1500:G:H2'	35:1:1501:U:O4'	2.10	0.51
35:1:1503:A:C4	35:1:1504:A:C8	2.99	0.51
35:1:1942:U:HO2'	35:1:3345:G:HO2'	1.57	0.51
35:1:2250:G:N7	80:1:3451:OHX:N6	2.59	0.51
35:1:2656:A:OP1	68:AP:97:LYS:HB3	2.11	0.51
35:1:2673:A:O2'	45:s:104:PHE:O	2.28	0.51
35:1:2709:C:H2'	35:1:2710:C:C6	2.46	0.51
35:1:3084:C:H2'	35:1:3085:G:O4'	2.11	0.51
33:k:346:THR:HB	33:k:351:LEU:HD11	1.92	0.51
38:l:325:LEU:O	41:o:41:ARG:NH2	2.44	0.51
42:p:195:SER:OG	42:p:197:VAL:O	2.27	0.51
47:u:46:ILE:HD13	47:u:58:ILE:HG21	1.91	0.51
50:x:10:ASN:O	50:x:14:SER:OG	2.24	0.51
35:AR:24:G:H2'	35:AR:25:U:O4'	2.10	0.51
35:AR:277:G:H2'	35:AR:278:U:C6	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:604:G:O6	80:AR:3660:OHX:N5	2.44	0.51
35:AR:2737:C:OP1	54:CV:70:SER:OG	2.29	0.51
35:AR:2987:A:H2'	35:AR:2988:C:C6	2.46	0.51
42:CJ:173:MET:HE2	42:CJ:173:MET:HA	1.92	0.51
62:DK:43:LEU:O	62:DK:47:ILE:HD12	2.10	0.51
63:DL:39:TYR:CD1	63:DL:40:PRO:HA	2.45	0.51
1:sR:187:G:O2'	1:sR:198:A:N6	2.42	0.51
1:sR:755:A:C4	1:sR:756:A:C8	2.98	0.51
1:sR:1565:C:O2'	19:c8:99:HIS:HE1	1.94	0.51
2:s0:63:ILE:HD11	2:s0:158:VAL:HG21	1.92	0.51
2:s0:74:VAL:CG2	2:s0:118:PRO:HB3	2.40	0.51
5:s3:58:VAL:C	5:s3:66:ILE:HG23	2.34	0.51
5:s3:98:ALA:HB2	5:s3:188:ILE:HG12	1.93	0.51
6:s4:44:LEU:HG	6:s4:82:TYR:HB3	1.92	0.51
6:s4:157:ASN:CG	6:s4:222:LEU:HD21	2.36	0.51
8:s6:84:TYR:OH	8:s6:91:GLU:O	2.26	0.51
9:s7:45:SER:O	9:s7:61:PHE:N	2.35	0.51
9:s7:126:LEU:HD12	9:s7:126:LEU:H	1.76	0.51
11:s9:44:ARG:O	11:s9:48:GLN:HG3	2.10	0.51
19:c8:42:TYR:O	19:c8:46:VAL:HG12	2.11	0.51
23:d2:18:GLU:OE1	23:d2:65:LEU:HB3	2.11	0.51
74:d7:20:LYS:HG3	74:d7:21:LEU:HD23	1.92	0.51
77:e0:50:VAL:HG13	77:e0:54:ARG:HD3	1.93	0.51
78:e1:144:CYS:O	78:e1:145:HIS:C	2.50	0.51
1:A:535:A:OP1	11:K:168:ARG:NH2	2.43	0.51
1:A:1113:A:H5"	67:AO:6:ARG:NH2	2.25	0.51
1:A:1469:A:H2'	1:A:1470:C:C6	2.45	0.51
1:A:1473:U:OP2	7:G:189:THR:HA	2.10	0.51
1:A:1650:U:H2'	1:A:1651:A:C8	2.46	0.51
19:T:23:ASP:HB3	19:T:26:ILE:CG2	2.40	0.51
20:U:14:PHE:CE1	20:U:135:ILE:HD13	2.39	0.51
33:CE:221:THR:O	33:CE:272:TYR:HA	2.11	0.51
35:1:3:U:C2	37:4:157:U:H1'	2.46	0.51
35:1:19:U:O4	80:1:3503:OHX:N6	2.44	0.51
35:1:314:U:H2'	35:1:315:C:H6	1.76	0.51
35:1:428:A:H2'	35:1:429:U:C6	2.45	0.51
35:1:1295:G:H2'	35:1:1296:C:C6	2.45	0.51
35:1:1609:C:OP1	58:8:125:ARG:NH1	2.43	0.51
35:1:2426:U:H2'	35:1:2427:U:C6	2.45	0.51
35:1:2443:A:O2'	35:1:2444:C:OP2	2.22	0.51
35:1:3034:C:O2'	43:q:122:LYS:HD2	2.10	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:3:40:C:O2	45:s:72:ARG:NH1	2.41	0.51
37:4:141:C:H5'	48:v:109:ARG:HD2	1.91	0.51
33:k:10:ARG:NH2	33:k:263:SER:O	2.35	0.51
33:k:169:THR:HG22	33:k:171:LEU:HG	1.91	0.51
39:m:119:TYR:CE1	39:m:135:VAL:HG13	2.46	0.51
41:o:140:SER:O	41:o:144:ILE:HG13	2.11	0.51
42:p:65:LEU:O	42:p:69:LEU:HD12	2.11	0.51
46:t:47:ALA:C	46:t:49:ARG:N	2.65	0.51
50:x:22:LEU:HB3	50:x:90:PHE:CE2	2.45	0.51
53:0:104:GLU:O	53:0:108:GLN:HG2	2.10	0.51
54:2:48:ILE:HD13	54:2:94:GLU:HB3	1.92	0.51
35:AR:1281:G:C2	35:AR:1282:G:C8	2.98	0.51
35:AR:1306:G:C6	49:CQ:62:THR:HA	2.45	0.51
35:AR:1916:U:H2'	35:AR:1917:C:C6	2.44	0.51
35:AR:2278:C:H5"	80:AR:3593:OHX:N3	2.26	0.51
35:AR:2318:U:O4	80:AR:3497:OHX:N4	2.43	0.51
35:AR:2538:U:H3'	35:AR:2539:C:O4'	2.11	0.51
35:AR:2930:A:H2'	35:AR:2931:C:C6	2.46	0.51
35:AR:3107:U:H2'	35:AR:3108:G:C8	2.46	0.51
35:AR:3160:U:OP1	80:AR:3668:OHX:N5	2.43	0.51
46:CN:48:PRO:HA	46:CN:137:GLN:HB3	1.93	0.51
46:CN:176:GLU:O	46:CN:180:ARG:HB2	2.11	0.51
52:CT:106:LEU:HB3	52:CT:120:TYR:CE2	2.46	0.51
52:CT:160:GLU:HA	52:CT:163:ARG:HB3	1.91	0.51
55:CW:96:VAL:HG12	55:CW:97:SER:H	1.76	0.51
60:DI:81:CYS:N	60:DI:84:CYS:HB2	2.26	0.51
73:b:97:PRO:O	73:b:98:PRO:C	2.53	0.51
1:sR:1455:G:OP1	16:c5:122:THR:HG21	2.10	0.51
1:sR:1584:G:H22	1:sR:1611:A:P	2.32	0.51
4:s2:53:ILE:H	4:s2:53:ILE:HD12	1.75	0.51
7:s5:187:ILE:H	7:s5:187:ILE:HD12	1.75	0.51
14:c3:46:THR:OG1	14:c3:49:GLN:HG2	2.11	0.51
23:d2:96:ALA:HB3	23:d2:99:PHE:CE1	2.45	0.51
1:A:635:A:H2'	1:A:636:A:C8	2.44	0.51
1:A:1550:A:P	16:Q:42:ARG:HH22	2.34	0.51
2:B:83:GLN:OE1	2:B:100:GLY:N	2.43	0.51
4:D:40:LYS:O	4:D:43:ARG:N	2.37	0.51
4:D:83:ILE:HD12	4:D:83:ILE:O	2.11	0.51
6:F:126:VAL:HA	6:F:141:THR:HG22	1.91	0.51
7:G:110:ALA:O	7:G:114:ILE:HD12	2.10	0.51
10:J:153:GLU:HB2	10:J:156:VAL:CG1	2.34	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:K:108:ARG:NH1	11:K:110:GLN:HB3	2.24	0.51
18:S:7:LYS:HA	18:S:10:LYS:HG3	1.93	0.51
24:Y:134:ALA:O	24:Y:137:LYS:O	2.28	0.51
28:AB:69:TRP:CG	46:t:64:LYS:HG3	2.46	0.51
31:CD:45:VAL:HG22	31:CD:61:VAL:HG22	1.91	0.51
30:DE:99:ASP:O	30:DE:103:THR:HG23	2.10	0.51
35:1:239:G:H4'	35:1:240:U:OP1	2.11	0.51
35:1:422:A:C2	35:1:2363:A:H4'	2.45	0.51
35:1:1558:A:O2'	58:8:34:LEU:HD23	2.11	0.51
35:1:1620:U:H2'	35:1:1621:A:C8	2.46	0.51
35:1:1806:A:H2'	35:1:1807:G:O4'	2.10	0.51
80:1:3466:OHX:N6	80:1:4181:OHX:N4	2.59	0.51
36:3:23:A:H2'	36:3:24:A:C8	2.45	0.51
38:l:143:GLU:OE2	38:l:143:GLU:N	2.24	0.51
38:l:257:LYS:O	38:l:261:VAL:HG12	2.10	0.51
38:l:317:PRO:HB2	41:o:149:TYR:HD2	1.76	0.51
43:q:101:VAL:HG22	43:q:114:VAL:HG22	1.92	0.51
46:t:153:ASP:CG	46:t:154:VAL:H	2.18	0.51
47:u:68:LEU:HD23	47:u:90:VAL:HG23	1.92	0.51
49:w:62:THR:OG1	49:w:69:GLY:HA2	2.10	0.51
53:0:16:THR:OG1	53:0:19:VAL:HG22	2.11	0.51
61:AI:79:ASP:OD1	61:AI:79:ASP:N	2.42	0.51
35:AR:44:U:OP1	48:CP:85:THR:HG23	2.11	0.51
35:AR:51:A:C4	35:AR:52:A:C8	2.99	0.51
35:AR:426:G:H2'	35:AR:427:C:C6	2.46	0.51
35:AR:728:G:H2'	35:AR:729:C:C6	2.45	0.51
35:AR:860:G:OP1	69:DR:17:ARG:NH1	2.44	0.51
35:AR:1239:C:N4	35:AR:1249:G:H22	2.09	0.51
35:AR:1666:G:H2'	35:AR:1667:A:H8	1.76	0.51
35:AR:1711:C:H2'	35:AR:1712:G:O4'	2.10	0.51
35:AR:1804:A:H2'	35:AR:1805:C:C6	2.46	0.51
35:AR:2310:U:OP1	80:AR:4229:OHX:N6	2.43	0.51
35:AR:2894:C:OP1	43:CK:168:ARG:HD2	2.10	0.51
35:AR:3208:G:H2'	53:CU:166:LYS:NZ	2.25	0.51
37:AT:95:G:H1'	63:DL:81:GLY:O	2.11	0.51
38:CF:280:ILE:HG22	51:CS:104:LEU:O	2.10	0.51
44:CL:60:LEU:HD23	44:CL:160:PRO:HD2	1.93	0.51
79:h:70:ASP:HB3	79:h:113:VAL:HG12	1.93	0.51
1:sR:57:G:OP2	25:d4:116:LYS:HE3	2.10	0.51
1:sR:929:A:O5'	1:sR:931:C:N4	2.43	0.51
1:sR:1324:G:OP2	80:sR:1960:OHX:N2	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1588:G:O6	1:sR:1608:U:O4	2.28	0.51
79:Rb:151:VAL:HA	79:Rb:173:GLY:HA2	1.92	0.51
79:Rb:270:LEU:HD12	79:Rb:270:LEU:O	2.10	0.51
2:s0:169:SER:O	2:s0:169:SER:OG	2.23	0.51
6:s4:104:ASP:HB2	6:s4:108:ARG:O	2.11	0.51
11:s9:184:SER:O	11:s9:184:SER:OG	2.25	0.51
23:d2:73:GLY:HA3	23:d2:128:PHE:CZ	2.46	0.51
1:A:259:U:OP1	10:J:75:LYS:NZ	2.43	0.51
1:A:1533:C:H5'	19:T:27:LYS:NZ	2.26	0.51
1:A:1542:G:O2'	80:A:1951:OHX:N4	2.43	0.51
1:A:1563:C:OP1	20:U:84:LYS:NZ	2.30	0.51
13:M:86:ILE:O	13:M:106:ASN:HA	2.10	0.51
17:R:26:LYS:N	17:R:26:LYS:CD	2.73	0.51
21:V:17:GLN:HG3	21:V:96:PRO:HB2	1.93	0.51
22:W:4:ASP:OD2	22:W:5:LYS:HD2	2.10	0.51
25:Z:78:SER:HB3	25:Z:81:GLU:OE1	2.10	0.51
26:DB:101:PHE:HA	26:DB:107:ARG:HD2	1.93	0.51
35:1:47:C:H5"	46:t:16:LYS:HG2	1.91	0.51
35:1:1148:G:N7	87:1:4211:HOH:O	2.35	0.51
33:k:136:LYS:HE3	33:k:143:GLY:HA3	1.92	0.51
39:m:86:TYR:CG	39:m:247:ILE:HG12	2.46	0.51
42:p:52:TRP:NE1	42:p:60:ARG:HH12	2.09	0.51
48:v:16:SER:O	48:v:20:ARG:HG3	2.10	0.51
49:w:119:VAL:HG23	53:0:164:SER:HB3	1.92	0.51
52:z:95:TRP:CZ2	52:z:99:LEU:CD2	2.94	0.51
53:0:19:VAL:O	53:0:19:VAL:HG23	2.10	0.51
53:0:101:ALA:O	53:0:105:THR:HG23	2.10	0.51
27:9:56:VAL:CG2	27:9:104:LEU:HB3	2.41	0.51
63:AK:8:PHE:O	63:AK:11:ARG:HG3	2.11	0.51
64:AL:56:ILE:HD11	64:AL:61:LYS:NZ	2.26	0.51
35:AR:503:C:H2'	35:AR:504:A:C8	2.43	0.51
35:AR:1813:A:OP1	80:AR:3666:OHX:N2	2.44	0.51
35:AR:2943:G:H2'	35:AR:2944:U:O4'	2.10	0.51
37:AT:63:G:OP1	37:AT:90:U:H5"	2.11	0.51
40:CH:28:GLN:NE2	40:CH:57:HIS:HE1	2.08	0.51
45:CM:23:VAL:HG13	45:CM:25:GLU:H	1.76	0.51
52:CT:154:ALA:HB1	52:CT:158:GLU:OE1	2.11	0.51
54:CV:39:ILE:H	54:CV:102:ARG:NH1	2.07	0.51
34:DG:19:ARG:HD2	34:DG:33:ARG:HB2	1.90	0.51
60:DI:98:GLN:HE22	60:DI:102:LYS:HE3	1.76	0.51
69:DR:87:ARG:O	69:DR:90:VAL:HG22	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:p0:25:LEU:HD22	71:p0:26:PHE:N	2.24	0.51
70:sM:83:LYS:HA	70:sM:83:LYS:CE	2.40	0.51
73:b:30:ILE:HD11	73:b:34:LYS:HD3	1.92	0.51
73:b:62:TYR:CG	73:b:63:ALA:N	2.78	0.51
76:e:33:LYS:O	76:e:36:LEU:HB2	2.11	0.51
1:sR:332:U:P	10:s8:56:ARG:NH2	2.84	0.51
1:sR:449:C:H2'	1:sR:450:U:C6	2.46	0.51
1:sR:703:G:O6	80:sR:1955:OHX:N6	2.43	0.51
1:sR:749:U:OP1	23:d2:83:ILE:HG22	2.11	0.51
1:sR:1133:A:H2'	1:sR:1134:C:O4'	2.11	0.51
79:Rb:213:SER:HG	79:Rb:214:ALA:H	1.57	0.51
79:Rb:220:ILE:HD11	79:Rb:243:LEU:HD21	1.92	0.51
2:s0:140:ASN:ND2	22:d1:29:HIS:HA	2.26	0.51
8:s6:16:PHE:CZ	8:s6:121:LEU:HD11	2.46	0.51
9:s7:17:GLU:OE2	9:s7:47:ARG:NH2	2.43	0.51
9:s7:46:ILE:HA	9:s7:59:ALA:O	2.09	0.51
15:c4:89:THR:O	15:c4:128:LYS:HE3	2.11	0.51
1:A:253:A:H2'	1:A:254:A:H8	1.76	0.51
1:A:590:C:H5"	77:f:43:ARG:NH2	2.25	0.51
1:A:1360:A:OP1	20:U:134:ARG:NH1	2.44	0.51
1:A:1387:G:N7	18:S:44:LYS:NZ	2.45	0.51
3:C:165:ARG:O	3:C:169:SER:OG	2.29	0.51
3:C:174:LYS:C	3:C:177:GLN:HE22	2.18	0.51
4:D:49:LYS:HD2	4:D:243:TYR:HE2	1.76	0.51
4:D:53:ILE:HG23	4:D:72:LEU:HD13	1.92	0.51
6:F:131:LEU:HA	6:F:137:PRO:HA	1.93	0.51
8:H:190:GLN:O	8:H:194:LYS:HG3	2.11	0.51
12:L:50:THR:O	12:L:53:GLY:N	2.35	0.51
13:M:75:VAL:HG11	13:M:118:GLN:O	2.11	0.51
20:U:55:TYR:CD1	20:U:55:TYR:N	2.77	0.51
26:AA:46:ILE:HG23	26:AA:68:ILE:HG23	1.91	0.51
26:AA:52:LYS:O	26:AA:65:ARG:NH2	2.32	0.51
28:DC:60:TYR:CD2	28:DC:63:LYS:HD2	2.46	0.51
31:CD:246:LEU:HG	31:CD:247:ARG:O	2.10	0.51
33:CE:85:VAL:HA	33:CE:202:THR:HA	1.93	0.51
33:CE:334:ARG:NH2	35:AR:3304:U:O2'	2.32	0.51
35:1:22:G:H5"	63:AK:43:LYS:HG2	1.93	0.51
35:1:408:A:P	80:1:4158:OHX:N4	2.84	0.51
35:1:1383:G:O6	80:1:3411:OHX:N1	2.43	0.51
35:1:1751:G:OP1	64:AL:26:LYS:NZ	2.44	0.51
35:1:2177:G:OP2	31:j:128:ARG:NH1	2.43	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2209:U:HO2'	35:1:2210:G:P	2.33	0.51
35:1:2383:C:H5'	49:w:71:PHE:CE2	2.43	0.51
35:1:2423:U:H2'	35:1:2424:A:C8	2.46	0.51
33:k:45:SER:HA	33:k:338:LEU:O	2.11	0.51
39:m:76:ALA:CB	39:m:109:THR:HG22	2.41	0.51
41:o:25:GLN:HG3	41:o:29:GLU:HB2	1.92	0.51
45:s:132:ASN:OD1	45:s:132:ASN:N	2.44	0.51
52:z:140:GLU:O	52:z:143:ILE:HG12	2.10	0.51
35:AR:123:A:OP1	42:CJ:105:LYS:HE2	2.11	0.51
35:AR:563:U:OP1	53:CU:71:LYS:NZ	2.37	0.51
35:AR:627:U:H2'	35:AR:628:A:C8	2.45	0.51
35:AR:656:A:H2'	35:AR:657:A:H8	1.75	0.51
35:AR:796:U:H2'	35:AR:797:U:C6	2.46	0.51
35:AR:1011:A:H2'	35:AR:1012:G:C8	2.45	0.51
35:AR:1579:C:N4	58:CZ:33:ARG:HH22	2.09	0.51
35:AR:2433:U:H1'	48:CP:125:SER:HB3	1.92	0.51
35:AR:3096:C:H2'	35:AR:3097:C:C6	2.44	0.51
80:AR:3504:OHX:N4	41:CI:217:PRO:O	2.44	0.51
43:CK:147:SER:HB2	43:CK:187:ILE:HD11	1.92	0.51
50:CR:105:LYS:HB3	50:CR:107:LEU:HD11	1.92	0.51
52:CT:46:LYS:HE3	52:CT:47:ASN:HB3	1.92	0.51
52:CT:81:ARG:HG2	52:CT:88:ARG:CZ	2.40	0.51
53:CU:9:VAL:HG12	53:CU:58:ILE:HD11	1.91	0.51
55:CW:32:SER:HA	55:CW:35:LYS:CG	2.41	0.51
56:CX:19:VAL:HG23	56:CX:50:PRO:O	2.10	0.51
56:CX:83:LYS:HD3	56:CX:84:SER:O	2.10	0.51
58:CZ:131:ASP:OD1	58:CZ:134:ASP:N	2.41	0.51
1:sR:525:A:H2'	1:sR:526:A:C8	2.46	0.51
1:sR:699:U:H2'	1:sR:700:C:C6	2.46	0.51
1:sR:1163:A:O3'	7:s5:166:ARG:NH2	2.44	0.51
1:sR:1451:C:OP1	76:d9:10:HIS:N	2.43	0.51
79:Rb:8:VAL:HG12	79:Rb:9:LEU:H	1.75	0.51
79:Rb:209:THR:O	79:Rb:224:ASN:HA	2.09	0.51
3:s1:100:PHE:CD2	3:s1:181:LEU:HD21	2.46	0.51
7:s5:214:LYS:HD2	7:s5:215:ASP:N	2.26	0.51
9:s7:28:GLU:OE2	9:s7:35:LYS:HB3	2.10	0.51
10:s8:48:THR:HG22	10:s8:49:ARG:H	1.75	0.51
21:d0:97:VAL:O	21:d0:100:VAL:HG22	2.11	0.51
1:A:30:G:O3'	24:Y:131:SER:OG	2.27	0.51
1:A:631:G:H2'	1:A:632:U:C6	2.46	0.51
1:A:887:A:H2'	1:A:888:U:H6	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:73:ASP:OD2	6:F:122:LYS:NZ	2.40	0.51
7:G:208:SER:OG	7:G:211:ILE:HG13	2.11	0.51
15:P:84:ARG:NH1	15:P:85:ALA:O	2.44	0.51
19:T:23:ASP:HB3	19:T:26:ILE:HG22	1.93	0.51
26:AA:88:ASP:CB	26:AA:121:ARG:HH12	2.24	0.51
28:DC:53:PHE:O	51:CS:176:ARG:HB2	2.11	0.51
30:AD:10:ILE:HG12	30:AD:14:LEU:HD11	1.93	0.51
33:CE:261:MET:O	33:CE:264:VAL:HG12	2.11	0.51
35:1:1856:C:H2'	35:1:1857:C:H6	1.76	0.51
35:1:2504:U:H2'	35:1:2505:U:O4'	2.09	0.51
33:k:167:ARG:O	80:k:403:OHX:N5	2.44	0.51
38:l:23:PRO:HG2	38:l:258:LEU:HD23	1.91	0.51
40:n:54:TYR:HA	40:n:65:ILE:HG22	1.93	0.51
44:r:168:SER:HA	54:2:160:ILE:O	2.11	0.51
27:9:32:SER:O	27:9:101:PRO:HB2	2.11	0.51
64:AL:17:ARG:O	64:AL:17:ARG:HG2	2.11	0.51
35:AR:80:G:H2'	35:AR:81:C:C6	2.46	0.51
35:AR:651:G:O2'	35:AR:1435:A:OP1	2.28	0.51
37:AT:9:A:H2'	37:AT:10:A:H8	1.74	0.51
38:CF:107:ARG:HG2	38:CF:108:LYS:N	2.25	0.51
42:CJ:87:ALA:HA	42:CJ:90:THR:OG1	2.11	0.51
44:CL:47:PRO:HB3	44:CL:171:TRP:CZ2	2.45	0.51
48:CP:15:GLN:HB3	62:DK:52:PRO:HD3	1.91	0.51
61:DJ:113:GLN:HA	61:DJ:113:GLN:OE1	2.09	0.51
63:DL:19:CYS:O	63:DL:23:GLY:N	2.41	0.51
64:DM:5:ILE:HD12	64:DM:6:THR:H	1.75	0.51
68:DQ:14:GLY:CA	68:DQ:79:THR:HG21	2.40	0.51
79:h:179:LYS:HG2	79:h:191:ASP:OD1	2.11	0.51
79:h:276:PRO:HG2	79:h:278:PHE:CE1	2.45	0.51
1:sR:152:U:O2'	8:s6:4:ASN:OD1	2.13	0.51
2:s0:183:ARG:HG3	2:s0:188:LEU:HB3	1.93	0.51
3:s1:69:CYS:HB3	15:c4:114:ARG:HH11	1.75	0.51
3:s1:81:PHE:CD1	3:s1:82:ARG:HG3	2.46	0.51
8:s6:136:LYS:HG3	8:s6:173:PRO:HB2	1.92	0.51
9:s7:20:VAL:O	9:s7:24:PHE:HD1	1.94	0.51
73:d6:10:ARG:N	73:d6:10:ARG:HD2	2.26	0.51
1:A:189:C:H2'	1:A:190:C:H5'	1.93	0.51
1:A:206:A:OP2	80:A:1950:OHX:N5	2.44	0.51
1:A:330:G:H2'	1:A:331:A:H8	1.75	0.51
1:A:332:U:OP2	10:J:175:GLN:NE2	2.34	0.51
1:A:434:G:OP1	24:Y:78:LYS:HA	2.11	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1291:G:H1	1:A:1324:G:H1	1.59	0.51
1:A:1525:A:OP1	20:U:82:GLY:HA2	2.11	0.51
1:A:1558:U:H3'	1:A:1559:A:H4'	1.93	0.51
4:D:179:VAL:O	4:D:179:VAL:HG23	2.11	0.51
9:I:14:THR:HG21	9:I:17:GLU:CB	2.41	0.51
9:I:89:HIS:CG	9:I:168:SER:HG	2.27	0.51
10:J:193:LEU:HD12	10:J:194:ARG:N	2.26	0.51
11:K:102:GLU:OE1	11:K:102:GLU:N	2.32	0.51
11:K:109:LEU:CD2	11:K:129:ILE:HD13	2.40	0.51
16:Q:37:ALA:HB1	16:Q:41:VAL:HG11	1.93	0.51
17:R:30:LYS:HA	17:R:36:ILE:HD13	1.92	0.51
21:V:103:ILE:O	21:V:107:THR:OG1	2.24	0.51
23:X:102:VAL:HG23	23:X:127:GLY:O	2.11	0.51
34:AF:3:SER:HB3	34:AF:71:HIS:NE2	2.26	0.51
35:1:158:G:H2'	35:1:159:A:H8	1.76	0.51
35:1:789:A:H2'	35:1:790:U:C6	2.46	0.51
35:1:1144:U:H1'	35:1:1145:G:C8	2.46	0.51
35:1:1709:C:H2'	35:1:1710:C:H6	1.76	0.51
35:1:2585:G:H2'	35:1:2585:G:N3	2.25	0.51
35:1:3165:A:H2'	35:1:3166:C:H6	1.75	0.51
36:3:19:C:H2'	36:3:20:A:H8	1.76	0.51
36:3:65:G:O3'	44:r:204:GLY:HA2	2.11	0.51
39:m:195:LEU:O	39:m:199:ILE:HG13	2.10	0.51
42:p:155:ASN:OD1	42:p:181:LYS:HA	2.09	0.51
44:r:47:PRO:HB3	44:r:171:TRP:CE2	2.46	0.51
45:s:41:SER:O	45:s:75:LYS:NZ	2.37	0.51
46:t:7:LEU:HB3	46:t:8:PRO:HD2	1.91	0.51
48:v:114:ARG:HG2	48:v:137:PRO:HG3	1.91	0.51
50:x:18:ARG:NH2	50:x:147:GLU:OE1	2.44	0.51
35:AR:126:U:H2'	35:AR:127:G:O4'	2.09	0.51
35:AR:160:G:H2'	35:AR:161:G:O4'	2.10	0.51
35:AR:306:A:C2	35:AR:2784:G:H1'	2.46	0.51
35:AR:394:G:N1	35:AR:397:A:OP2	2.42	0.51
35:AR:432:G:H2'	35:AR:433:A:H8	1.75	0.51
35:AR:553:U:H2'	35:AR:554:A:O4'	2.10	0.51
35:AR:3287:U:H2'	35:AR:3288:G:H5'	1.92	0.51
42:CJ:237:ILE:HD12	42:CJ:238:LEU:H	1.75	0.51
42:CJ:248:LYS:N	42:CJ:248:LYS:HD2	2.26	0.51
52:CT:12:ALA:HB1	52:CT:17:VAL:O	2.11	0.51
53:CU:48:LEU:C	53:CU:49:HIS:HD1	2.18	0.51
79:h:182:ASN:HD21	79:h:185:GLN:CB	2.24	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:228:G:H2'	1:sR:229:U:H6	1.76	0.51
1:sR:876:G:H1'	1:sR:944:A:O4'	2.11	0.51
1:sR:955:A:OP1	14:c3:3:ARG:NH1	2.44	0.51
1:sR:986:G:OP2	80:sR:1975:OHX:N2	2.44	0.51
79:Rb:111:MET:HE1	79:Rb:127:ARG:CG	2.25	0.51
79:Rb:302:PHE:HA	79:Rb:311:ARG:O	2.10	0.51
5:s3:176:LEU:HB2	5:s3:181:VAL:HG23	1.91	0.51
17:c6:38:LEU:HD11	20:c9:10:ALA:HA	1.93	0.51
17:c6:55:VAL:CG2	17:c6:105:LEU:HD12	2.41	0.51
74:d7:19:HIS:HD2	74:d7:21:LEU:H	1.59	0.51
1:A:155:U:H4'	8:H:59:GLN:H	1.75	0.51
1:A:219:A:N7	1:A:830:U:H5	2.09	0.51
1:A:698:U:O4'	9:I:107:ARG:HG3	2.11	0.51
1:A:1253:U:H4'	78:g:143:LYS:N	2.26	0.51
1:A:1471:A:N3	1:A:1474:G:H1'	2.25	0.51
2:B:10:THR:OG1	2:B:13:ASP:OD1	2.20	0.51
2:B:67:ILE:HG21	2:B:72:ASP:OD1	2.11	0.51
4:D:140:ARG:HB3	4:D:221:THR:HB	1.92	0.51
5:E:61:GLU:OE2	5:E:64:ARG:HD2	2.11	0.51
6:F:15:PRO:O	6:F:18:TRP:HB2	2.11	0.51
11:K:41:GLU:HB3	11:K:44:ARG:HH21	1.76	0.51
17:R:102:LYS:HD3	17:R:103:ASN:N	2.25	0.51
26:DB:60:LYS:HG3	26:DB:63:ALA:HB3	1.92	0.51
32:AE:13:THR:HG22	32:AE:72:ARG:CD	2.41	0.51
33:CE:4:ARG:HB3	33:CE:4:ARG:HH11	1.74	0.51
34:AF:32:TRP:CZ2	34:AF:53:PRO:HD2	2.46	0.51
35:1:679:U:H1'	35:1:788:C:H1'	1.93	0.51
35:1:2355:G:H4'	50:x:139:TYR:CE1	2.46	0.51
35:1:3358:U:H2'	35:1:3359:A:O4'	2.10	0.51
35:1:3370:A:H2'	35:1:3371:G:C8	2.46	0.51
36:3:60:G:H2'	36:3:61:G:H8	1.75	0.51
37:4:6:U:H2'	37:4:7:U:H6	1.75	0.51
37:4:37:A:H5"	37:4:39:G:O4'	2.11	0.51
43:q:20:ILE:HD13	43:q:45:PHE:CD2	2.46	0.51
52:z:171:ASP:HA	52:z:174:ALA:HB3	1.93	0.51
56:6:75:PRO:HG2	56:6:105:PRO:HD3	1.92	0.51
56:6:91:VAL:HG23	56:6:93:LEU:HD22	1.93	0.51
35:AR:73:C:OP1	62:DK:14:GLY:HA2	2.11	0.51
35:AR:1104:G:H2'	35:AR:1105:A:C8	2.46	0.51
35:AR:1228:C:H2'	35:AR:1229:G:H8	1.76	0.51
35:AR:1517:G:OP1	65:DN:41:ARG:NH2	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CF:286:VAL:HG21	51:CS:31:LYS:HE2	1.93	0.51
39:CG:278:SER:O	39:CG:281:GLU:HG2	2.11	0.51
45:CM:95:ASN:O	45:CM:102:PHE:HA	2.10	0.51
48:CP:44:ARG:HG3	48:CP:47:LYS:HB3	1.92	0.51
50:CR:32:THR:HG21	50:CR:87:SER:OG	2.11	0.51
56:CX:75:PRO:HG2	56:CX:103:ALA:O	2.10	0.51
62:DK:54:GLU:HG2	62:DK:86:LYS:HE2	1.93	0.51
68:DQ:54:THR:O	68:DQ:55:LYS:HG2	2.11	0.51
73:b:79:ILE:HG23	73:b:84:VAL:HG11	1.92	0.51
77:f:35:TYR:CZ	77:f:39:LEU:HD11	2.46	0.51
1:sR:249:U:H3'	1:sR:250:C:H5'	1.92	0.51
1:sR:478:A:O2'	11:s9:124:HIS:HD2	1.94	0.51
1:sR:590:C:H2'	1:sR:591:A:H8	1.76	0.51
1:sR:729:G:C4	1:sR:730:G:C8	2.99	0.51
1:sR:922:G:H2'	1:sR:923:A:H8	1.75	0.51
1:sR:1620:C:H2'	1:sR:1621:U:C6	2.46	0.51
79:Rb:220:ILE:HD11	79:Rb:243:LEU:HD23	1.93	0.51
7:s5:170:GLN:O	7:s5:174:LEU:HG	2.11	0.51
8:s6:152:ASP:HB3	8:s6:154:ARG:HH12	1.75	0.51
8:s6:162:VAL:HG21	8:s6:169:TYR:CE1	2.45	0.51
9:s7:67:LEU:HD22	9:s7:94:ALA:CB	2.41	0.51
13:c1:125:VAL:HA	13:c1:140:VAL:HG22	1.93	0.51
14:c3:28:LEU:O	14:c3:32:SER:OG	2.29	0.51
17:c6:46:PHE:O	17:c6:50:GLU:HG3	2.11	0.51
18:c7:74:GLN:HA	18:c7:77:GLU:HB3	1.93	0.51
72:d5:82:HIS:C	72:d5:82:HIS:CD2	2.88	0.51
1:A:609:U:H4'	1:A:610:G:O5'	2.11	0.50
1:A:1339:C:O2'	1:A:1341:A:N7	2.35	0.50
1:A:1545:A:OP2	19:T:134:ARG:HG3	2.10	0.50
1:A:1732:A:H2'	1:A:1733:C:C6	2.46	0.50
2:B:137:SER:O	22:W:30:ALA:HA	2.10	0.50
5:E:24:PHE:C	5:E:24:PHE:CD1	2.88	0.50
7:G:29:ILE:O	7:G:29:ILE:HG13	2.10	0.50
9:I:57:ALA:CB	9:I:89:HIS:HB2	2.41	0.50
9:I:181:ILE:HG22	9:I:182:VAL:H	1.77	0.50
11:K:15:PRO:HD2	11:K:43:TYR:CE2	2.45	0.50
11:K:39:LYS:O	11:K:43:TYR:CD1	2.64	0.50
16:Q:97:TYR:CE1	16:Q:99:GLY:C	2.89	0.50
19:T:88:ARG:HG3	19:T:100:THR:OG1	2.11	0.50
21:V:90:TYR:O	21:V:91:ILE:HD13	2.10	0.50
31:CD:20:THR:O	31:CD:20:THR:OG1	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CD:152:SER:HB3	35:AR:2157:G:N7	2.26	0.50
32:AE:104:LEU:O	35:1:3325:G:H5'	2.11	0.50
35:1:282:G:O2'	35:1:283:G:OP2	2.21	0.50
35:1:1306:G:C6	49:w:62:THR:HA	2.46	0.50
35:1:1743:G:H2'	35:1:1744:G:C8	2.46	0.50
35:1:1895:A:O2'	35:1:3053:G:H4'	2.11	0.50
35:1:2127:U:O4'	35:1:2301:U:H5"	2.11	0.50
35:1:2555:G:O4'	60:AH:91:ARG:HD2	2.10	0.50
35:1:2617:U:H5	35:1:2621:G:OP2	1.94	0.50
35:1:3094:A:H2'	35:1:3095:U:C6	2.46	0.50
35:1:3337:G:H2'	35:1:3338:C:C6	2.46	0.50
38:l:232:SER:O	38:l:233:LEU:HG	2.12	0.50
38:l:302:ALA:HB2	51:y:39:ARG:CZ	2.41	0.50
42:p:91:PHE:HE2	42:p:185:ARG:HE	1.59	0.50
42:p:160:ILE:O	42:p:164:VAL:HG13	2.11	0.50
43:q:92:TYR:HD1	43:q:92:TYR:H	1.59	0.50
46:t:185:LYS:HA	46:t:188:ARG:NE	2.26	0.50
56:6:118:VAL:O	56:6:137:VAL:N	2.38	0.50
35:AR:802:C:H2'	35:AR:803:C:H6	1.76	0.50
35:AR:962:A:N1	35:AR:2814:G:O2'	2.42	0.50
35:AR:2793:G:N7	80:AR:3490:OHX:N1	2.59	0.50
35:AR:3208:G:O3'	53:CU:161:LYS:NZ	2.35	0.50
35:AR:3291:G:H2'	35:AR:3292:A:H8	1.75	0.50
36:AS:92:A:C5	36:AS:93:C:H1'	2.45	0.50
41:CI:80:GLN:HB2	54:CV:135:PRO:HB2	1.92	0.50
41:CI:84:VAL:HG12	41:CI:138:TYR:HD1	1.75	0.50
42:CJ:91:PHE:O	42:CJ:95:ASN:OD1	2.29	0.50
45:CM:30:LEU:HD13	45:CM:65:ILE:O	2.11	0.50
46:CN:56:PRO:HD3	46:CN:74:GLY:HA2	1.92	0.50
48:CP:102:ALA:O	48:CP:106:VAL:HG23	2.12	0.50
48:CP:119:TYR:OH	48:CP:131:GLU:OE1	2.19	0.50
62:DK:54:GLU:HB3	62:DK:90:MET:HE1	1.93	0.50
73:b:84:VAL:CG1	73:b:85:ARG:N	2.73	0.50
1:sR:500:C:H2'	1:sR:501:U:C6	2.46	0.50
1:sR:501:U:H2'	1:sR:502:U:C6	2.46	0.50
1:sR:753:A:C4'	6:s4:221:ARG:HD2	2.41	0.50
1:sR:1160:A:H2'	1:sR:1161:C:H6	1.74	0.50
1:sR:1681:A:H1'	8:s6:66:GLY:CA	2.40	0.50
1:sR:1740:A:H2'	1:sR:1741:U:C6	2.46	0.50
7:s5:51:VAL:O	7:s5:65:ARG:NH1	2.44	0.50
11:s9:96:VAL:HA	11:s9:99:LEU:HD12	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c4:81:VAL:HB	15:c4:115:ILE:HD12	1.92	0.50
18:c7:58:MET:HA	18:c7:61:ILE:HG13	1.93	0.50
19:c8:28:ILE:O	19:c8:32:LEU:HD12	2.11	0.50
20:c9:56:LYS:HD2	20:c9:56:LYS:H	1.76	0.50
1:A:480:G:OP1	11:K:120:LYS:NZ	2.44	0.50
1:A:1067:C:H2'	1:A:1068:C:H6	1.74	0.50
1:A:1445:G:N9	78:g:91:ILE:HD12	2.26	0.50
1:A:1678:A:OP1	10:J:59:ARG:NH2	2.41	0.50
2:B:59:LEU:O	2:B:63:ILE:HG13	2.10	0.50
3:C:32:ILE:HG21	3:C:98:THR:HG22	1.94	0.50
7:G:146:THR:CG2	7:G:220:VAL:HG23	2.40	0.50
10:J:35:ASN:O	10:J:37:LYS:NZ	2.42	0.50
20:U:66:TYR:HA	20:U:124:ILE:HB	1.93	0.50
21:V:57:ARG:HG2	21:V:89:ARG:CD	2.37	0.50
24:Y:12:ALA:O	24:Y:16:ARG:HG2	2.11	0.50
28:DC:51:GLY:C	51:CS:173:GLU:HA	2.37	0.50
30:AD:24:THR:HG23	30:AD:30:THR:HG22	1.94	0.50
35:1:103:G:OP1	46:t:70:ARG:NH1	2.44	0.50
35:1:209:A:H4'	35:1:211:A:N7	2.26	0.50
35:1:317:A:OP2	62:AJ:30:LYS:NZ	2.44	0.50
35:1:625:G:OP1	80:1:3541:OHX:N4	2.44	0.50
35:1:1615:C:H2'	35:1:1616:U:H6	1.76	0.50
35:1:3017:A:H2'	35:1:3018:C:H6	1.76	0.50
35:1:3186:A:H1'	43:q:44:THR:HG23	1.93	0.50
47:u:98:SER:O	47:u:102:LYS:HD3	2.11	0.50
61:AI:64:GLU:HA	61:AI:67:ARG:HB3	1.93	0.50
35:AR:75:G:H5"	46:CN:58:VAL:CG2	2.40	0.50
35:AR:211:A:OP1	38:CF:220:ARG:HD2	2.11	0.50
35:AR:649:A:OP2	35:AR:2868:U:O2'	2.29	0.50
35:AR:1009:A:H2'	35:AR:1010:G:C8	2.47	0.50
35:AR:1177:G:H5'	59:DH:18:ARG:NH1	2.27	0.50
35:AR:1566:A:H3'	35:AR:1567:U:C5'	2.41	0.50
35:AR:1855:U:H2'	35:AR:1856:C:C6	2.46	0.50
35:AR:3259:U:H5"	35:AR:3261:C:H5	1.76	0.50
36:AS:9:C:OP1	54:CV:26:HIS:HB2	2.12	0.50
41:CI:140:SER:OG	41:CI:143:THR:HG23	2.11	0.50
41:CI:191:VAL:HA	41:CI:195:PHE:CD1	2.46	0.50
43:CK:94:TYR:CD2	43:CK:98:PRO:HA	2.46	0.50
45:CM:116:TYR:HD1	45:CM:116:TYR:C	2.19	0.50
46:CN:153:ASP:OD1	46:CN:157:ARG:NH2	2.43	0.50
53:CU:27:MET:HE2	53:CU:45:LEU:HD23	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:a:48:ASP:OD1	72:a:48:ASP:N	2.44	0.50
72:a:74:SER:HA	72:a:77:ARG:NH2	2.26	0.50
1:sR:647:G:N2	1:sR:687:G:N2	2.53	0.50
1:sR:1060:U:H4'	1:sR:1061:A:H5"	1.93	0.50
1:sR:1356:U:H2'	1:sR:1357:A:H8	1.76	0.50
1:sR:1553:G:N1	1:sR:1556:A:OP2	2.44	0.50
1:sR:1559:A:C5	19:c8:134:ARG:HG2	2.46	0.50
79:Rb:89:LEU:HD13	79:Rb:103:PHE:HB2	1.93	0.50
79:Rb:199:ILE:HD12	79:Rb:199:ILE:O	2.11	0.50
2:s0:73:VAL:HB	2:s0:95:ALA:HA	1.93	0.50
2:s0:140:ASN:HD21	22:d1:29:HIS:HA	1.75	0.50
3:s1:172:LEU:O	3:s1:176:VAL:HG23	2.11	0.50
6:s4:55:ALA:HB1	6:s4:60:GLU:HB3	1.92	0.50
12:c0:24:LYS:HD2	12:c0:63:TYR:CE2	2.46	0.50
23:d2:112:ASP:OD1	23:d2:115:GLU:N	2.29	0.50
24:d3:13:ARG:O	24:d3:17:VAL:HG22	2.10	0.50
74:d7:15:GLU:OE2	74:d7:24:LEU:HB2	2.12	0.50
78:e1:140:TYR:CG	78:e1:141:CYS:N	2.79	0.50
1:A:1018:U:H2'	1:A:1019:A:C8	2.46	0.50
1:A:1150:G:N2	1:A:1768:G:H2'	2.26	0.50
1:A:1613:U:OP2	7:G:84:LYS:NZ	2.38	0.50
1:A:1648:A:H2'	1:A:1649:G:C8	2.46	0.50
4:D:139:ILE:HD11	4:D:218:ILE:HD12	1.93	0.50
14:O:110:ASP:OD1	14:O:114:ARG:NH1	2.44	0.50
17:R:89:LEU:HD22	17:R:105:LEU:HD22	1.93	0.50
19:T:89:GLN:HA	19:T:97:ASP:HA	1.91	0.50
28:AB:132:LYS:O	28:AB:136:GLU:HG3	2.11	0.50
29:DD:36:ASP:OD1	35:AR:2738:A:H5'	2.11	0.50
34:AF:104:ASN:O	34:AF:108:ILE:HG13	2.11	0.50
35:1:693:A:O2'	38:l:234:ASN:HB2	2.11	0.50
35:1:900:G:H2'	35:1:901:G:H8	1.76	0.50
35:1:1098:A:O5'	54:2:129:LYS:HG2	2.11	0.50
35:1:1460:A:H2'	35:1:1461:A:H8	1.76	0.50
35:1:1540:U:OP1	80:1:3520[A]:OHX:N5	2.44	0.50
35:1:2667:A:H2'	35:1:2668:U:O4'	2.11	0.50
35:1:2847:A:H3'	35:1:2848:G:H8	1.77	0.50
35:1:3047:U:O2'	35:1:3048:A:H5'	2.10	0.50
35:1:3310:A:OP1	50:x:74:LYS:NZ	2.27	0.50
37:4:6:U:H2'	37:4:7:U:C6	2.47	0.50
37:4:84:C:H1'	27:9:113:LYS:HG3	1.93	0.50
33:k:221:THR:O	33:k:334:ARG:NH1	2.44	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:l:99:MET:SD	38:l:102:PRO:HA	2.52	0.50
38:l:229:ASN:OD1	38:l:230:VAL:N	2.44	0.50
41:o:52:GLN:O	41:o:56:GLU:HG2	2.12	0.50
43:q:88:TYR:CE1	43:q:184:LYS:HB3	2.45	0.50
44:r:26:VAL:HG12	44:r:125:LEU:HD11	1.94	0.50
46:t:5:LYS:O	46:t:6:ASN:C	2.51	0.50
68:AP:17:CYS:SG	68:AP:77:CYS:HB3	2.49	0.50
35:AR:201:A:H2'	35:AR:202:G:C8	2.45	0.50
35:AR:207:U:H2'	35:AR:208:C:H6	1.76	0.50
35:AR:956:U:H2'	35:AR:957:C:C6	2.47	0.50
35:AR:976:U:H2'	35:AR:977:C:O4'	2.12	0.50
35:AR:1019:G:N2	35:AR:1033:U:H3	2.09	0.50
35:AR:1128:U:H2'	35:AR:1129:A:O4'	2.10	0.50
35:AR:1562:C:H2'	35:AR:1563:C:C6	2.46	0.50
35:AR:2674:A:C6	45:CM:124:GLY:HA3	2.46	0.50
35:AR:3232:G:H1	35:AR:3255:U:H3	1.60	0.50
42:CJ:94:PHE:HB3	42:CJ:189:LEU:HD11	1.92	0.50
45:CM:17:LEU:HD13	45:CM:80:LEU:HB2	1.94	0.50
45:CM:23:VAL:HG12	45:CM:65:ILE:O	2.10	0.50
46:CN:56:PRO:HG3	46:CN:74:GLY:C	2.35	0.50
72:a:41:ILE:CG1	72:a:42:LEU:H	2.24	0.50
79:h:267:PRO:HG2	79:h:269:TYR:CE1	2.46	0.50
1:sR:165:G:H2'	1:sR:166:C:H5"	1.92	0.50
1:sR:512:A:OP2	11:s9:172:VAL:HG13	2.11	0.50
1:sR:1375:A:H2'	1:sR:1376:C:O4'	2.12	0.50
1:sR:1573:A:H4'	1:sR:1574:G:H5'	1.92	0.50
79:Rb:59:ARG:NH1	79:Rb:95:ALA:HB1	2.27	0.50
79:Rb:232:TYR:CZ	79:Rb:265:LEU:CD1	2.94	0.50
4:s2:143:TYR:CG	4:s2:147:ASN:HA	2.46	0.50
5:s3:161:GLY:O	5:s3:164:VAL:HG12	2.11	0.50
9:s7:99:LEU:O	9:s7:112:ARG:NH1	2.44	0.50
15:c4:78:ALA:CB	15:c4:111:ARG:HB2	2.41	0.50
78:e1:132:LEU:HG	78:e1:141:CYS:HB2	1.94	0.50
1:A:1000:C:O2'	1:A:1002:G:N7	2.36	0.50
1:A:1039:A:H5"	22:W:62:ARG:HH12	1.77	0.50
1:A:1316:G:HO2'	1:A:1401:A:HO2'	1.57	0.50
1:A:1497:U:O3'	20:U:75:LYS:NZ	2.45	0.50
4:D:156:THR:HG21	4:D:224:PHE:CD2	2.46	0.50
4:D:184:VAL:O	4:D:188:LEU:HG	2.12	0.50
11:K:96:VAL:HA	11:K:99:LEU:CD1	2.41	0.50
17:R:40:GLU:HG2	17:R:42:GLU:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:R:62:ASN:N	17:R:62:ASN:OD1	2.43	0.50
19:T:104:ASN:O	19:T:108:LYS:HG2	2.11	0.50
24:Y:75:GLN:HG3	24:Y:82:LYS:HG3	1.92	0.50
28:AB:79:TRP:O	28:AB:87:ARG:HD2	2.12	0.50
29:DD:14:ARG:CZ	29:DD:18:ARG:HD3	2.42	0.50
35:1:63:A:H5"	48:v:174:ILE:HG21	1.93	0.50
35:1:364:G:O3'	38:l:84:ARG:HG2	2.11	0.50
35:1:617:G:O2'	50:x:171:ARG:NH2	2.44	0.50
35:1:718:G:H3'	35:1:719:U:C5'	2.42	0.50
35:1:792:G:H2'	35:1:793:C:H6	1.74	0.50
35:1:1000:C:OP1	80:1:3493:OHX:N3	2.44	0.50
35:1:1481:A:H2'	35:1:1481:A:N3	2.25	0.50
38:l:3:ARG:O	38:l:5:GLN:HG2	2.11	0.50
40:n:38:THR:HG23	40:n:90:LYS:HE3	1.92	0.50
41:o:98:LYS:HG2	41:o:129:LEU:HD21	1.94	0.50
44:r:31:ILE:HG22	44:r:62:SER:HB2	1.94	0.50
57:7:5:ILE:HD12	57:7:10:GLY:HA2	1.93	0.50
35:AR:102:C:HO2'	46:CN:62:THR:HG1	1.51	0.50
35:AR:142:C:H2'	35:AR:143:G:O4'	2.12	0.50
35:AR:269:G:N2	35:AR:295:A:OP2	2.31	0.50
35:AR:589:A:H1'	35:AR:1337:A:H5"	1.93	0.50
35:AR:599:C:H2'	35:AR:600:G:O4'	2.11	0.50
35:AR:741:U:H2'	35:AR:742:G:O4'	2.11	0.50
35:AR:980:A:H2'	35:AR:981:U:C1'	2.42	0.50
35:AR:1625:A:H2'	35:AR:1626:U:H6	1.77	0.50
35:AR:2386:A:OP1	80:AR:3521:OHX:N5	2.45	0.50
35:AR:3052:G:H2'	35:AR:3053:G:C8	2.44	0.50
35:AR:3190:C:OP1	49:CQ:168:TYR:OH	2.18	0.50
39:CG:290:ILE:HG13	39:CG:291:ALA:N	2.26	0.50
41:CI:158:LYS:HG2	41:CI:159:GLN:H	1.75	0.50
50:CR:36:ILE:O	50:CR:39:TRP:HB2	2.11	0.50
52:CT:162:ARG:NH2	1:sR:815:G:H21	2.09	0.50
66:DO:127:LEU:HD12	66:DO:128:LYS:H	1.77	0.50
69:DR:56:THR:CB	69:DR:63:THR:HG22	2.42	0.50
71:p0:50:VAL:HG23	71:p0:88:PHE:HD1	1.76	0.50
77:f:48:THR:O	77:f:49:LEU:HB2	2.12	0.50
1:sR:16:G:H2'	1:sR:17:C:C6	2.46	0.50
1:sR:98:U:H2'	1:sR:99:C:C6	2.46	0.50
1:sR:772:G:N2	1:sR:774:A:H1'	2.27	0.50
1:sR:1681:A:H1'	8:s6:66:GLY:HA2	1.93	0.50
79:Rb:171:SER:HB2	79:Rb:181:TRP:NE1	2.21	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:116:HIS:O	7:s5:120:ILE:HG13	2.12	0.50
11:s9:146:PHE:HE1	11:s9:149:ARG:NH1	2.08	0.50
24:d3:126:LYS:HE3	24:d3:129:GLY:HA2	1.92	0.50
1:A:555:A:C5	11:K:19:TYR:CE2	3.00	0.50
1:A:1317:C:H2'	1:A:1318:G:O4'	2.12	0.50
1:A:1611:A:OP1	7:G:95:ASN:ND2	2.44	0.50
3:C:21:VAL:HB	3:C:26:ARG:NH2	2.27	0.50
3:C:65:VAL:HG23	3:C:86:LEU:N	2.19	0.50
5:E:39:VAL:HA	5:E:47:GLU:O	2.12	0.50
6:F:191:ARG:HE	6:F:245:LYS:HB2	1.75	0.50
8:H:150:GLU:N	8:H:150:GLU:OE1	2.45	0.50
11:K:142:ASN:O	11:K:144:PRO:HD3	2.11	0.50
19:T:8:GLN:OE1	19:T:8:GLN:N	2.26	0.50
19:T:41:ARG:NH1	20:U:46:PRO:HG3	2.26	0.50
21:V:20:ILE:HD11	21:V:94:GLU:CA	2.41	0.50
22:W:82:VAL:HG13	22:W:83:TRP:H	1.77	0.50
24:Y:37:ALA:O	24:Y:41:SER:OG	2.30	0.50
29:DD:7:HIS:O	35:AR:1135:A:H5'	2.12	0.50
29:DD:18:ARG:O	80:DD:101:OHX:N4	2.45	0.50
35:1:546:C:H5'	35:1:547:G:O4'	2.11	0.50
35:1:631:U:H2'	35:1:632:G:H8	1.77	0.50
35:1:2261:G:O2'	35:1:2263:C:N4	2.45	0.50
35:1:2413:A:H2'	35:1:2414:G:C8	2.46	0.50
35:1:2413:A:H2'	35:1:2414:G:H8	1.76	0.50
35:1:3288:G:N3	35:1:3289:G:C8	2.80	0.50
37:4:137:C:OP2	80:4:213:OHX:N5	2.44	0.50
31:j:94:ALA:HB3	31:j:102:LEU:HG	1.93	0.50
33:k:283:TYR:OH	33:k:325:LYS:HD2	2.12	0.50
51:y:125:ASP:O	51:y:129:VAL:HG13	2.11	0.50
56:6:57:MET:HE2	56:6:126:TRP:CH2	2.46	0.50
35:AR:649:A:H2'	35:AR:650:C:C6	2.46	0.50
35:AR:789:A:H2'	35:AR:790:U:C6	2.47	0.50
35:AR:830:A:H2'	35:AR:831:G:O4'	2.11	0.50
35:AR:1898:G:OP2	80:AR:3446:OHX:N5	2.44	0.50
35:AR:2118:C:H2'	35:AR:2119:A:O4'	2.11	0.50
35:AR:3089:C:H2'	35:AR:3090:U:O4'	2.11	0.50
35:AR:3301:U:O4	80:AR:3428:OHX:N3	2.45	0.50
38:CF:154:THR:CG2	38:CF:252:GLU:HG2	2.42	0.50
42:CJ:78:PHE:O	42:CJ:79:GLN:HG2	2.12	0.50
45:CM:37:LEU:HD12	45:CM:67:VAL:HG23	1.94	0.50
68:DQ:100:LYS:HD3	68:DQ:100:LYS:N	2.15	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:DR:49:ARG:CZ	69:DR:52:ALA:HB2	2.41	0.50
71:p0:7:LYS:HA	71:p0:10:GLU:CD	2.37	0.50
79:h:89:LEU:HB2	79:h:103:PHE:HB2	1.92	0.50
79:h:116:ASP:OD2	79:h:117:LYS:NZ	2.44	0.50
79:h:124:SER:OG	79:h:132:LYS:HG2	2.12	0.50
1:sR:318:U:O4	80:sR:2012:OHX:N4	2.45	0.50
1:sR:353:A:OP2	80:sR:1908:OHX:N3	2.44	0.50
1:sR:476:U:H2'	77:e0:31:LYS:HG3	1.92	0.50
1:sR:595:G:H2'	1:sR:596:C:C6	2.47	0.50
1:sR:632:U:H5"	24:d3:10:ASN:O	2.11	0.50
1:sR:810:G:H21	9:s7:109:VAL:HA	1.76	0.50
1:sR:989:U:H2'	1:sR:990:C:C6	2.47	0.50
1:sR:1170:G:C2	1:sR:1171:A:C8	2.99	0.50
1:sR:1244:A:O2'	1:sR:1245:G:O5'	2.22	0.50
79:Rb:232:TYR:CD2	79:Rb:233:THR:N	2.80	0.50
2:s0:126:PRO:HB2	2:s0:152:PRO:HG2	1.92	0.50
5:s3:219:ALA:O	5:s3:220:PRO:C	2.54	0.50
6:s4:95:THR:HB	25:d4:16:PRO:CG	2.42	0.50
7:s5:20:PHE:CZ	7:s5:22:PRO:HB3	2.47	0.50
10:s8:34:ALA:HB2	10:s8:56:ARG:CD	2.41	0.50
1:A:946:U:H5"	3:C:165:ARG:NH1	2.27	0.50
1:A:1061:A:H3'	1:A:1062:A:C2	2.46	0.50
1:A:1199:G:H1	76:e:31:ILE:HG12	1.76	0.50
1:A:1213:G:O6	80:A:2117:OHX:N2	2.44	0.50
1:A:1274:C:H5	70:i:96:ARG:H	1.58	0.50
1:A:1354:G:H5'	1:A:1355:C:OP2	2.11	0.50
4:D:58:LEU:O	22:W:15:ARG:NE	2.40	0.50
4:D:143:TYR:HE1	4:D:151:PRO:HG3	1.77	0.50
6:F:11:ARG:NH2	6:F:20:LEU:HD12	2.26	0.50
6:F:19:LEU:HB2	6:F:51:ARG:HH12	1.76	0.50
6:F:126:VAL:HG11	6:F:155:LYS:O	2.12	0.50
7:G:117:THR:HG21	7:G:194:LEU:HD13	1.93	0.50
7:G:212:LYS:O	7:G:216:GLU:HG2	2.11	0.50
8:H:180:THR:O	8:H:184:LEU:HD12	2.12	0.50
14:O:3:ARG:HB3	14:O:6:SER:HB2	1.94	0.50
21:V:99:ILE:CD1	21:V:102:ARG:HB3	2.38	0.50
24:Y:42:PRO:HB3	24:Y:81:LYS:HD2	1.94	0.50
26:AA:17:ARG:NH2	35:1:1634:G:N7	2.60	0.50
28:AB:95:SER:HA	28:AB:122:PRO:HG2	1.93	0.50
28:DC:49:HIS:HD2	46:CN:9:ILE:HD11	1.77	0.50
35:1:1015:U:O2	35:1:1017:C:O2'	2.19	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1108:U:H2'	35:1:1109:U:C6	2.47	0.50
35:1:1129:A:H61	44:r:115:MET:HE1	1.76	0.50
35:1:1517:G:OP1	65:AM:41:ARG:NH1	2.45	0.50
35:1:2538:U:H4'	35:1:2539:C:OP2	2.10	0.50
35:1:3163:A:N6	35:1:3288:G:O6	2.45	0.50
37:4:108:C:N3	37:4:114:G:N1	2.43	0.50
33:k:174:LYS:O	33:k:175:LYS:C	2.54	0.50
49:w:54:TYR:CD1	49:w:58:LEU:HD11	2.46	0.50
52:z:28:GLU:OE2	80:z:204:OHX:N2	2.43	0.50
55:5:30:PRO:HB2	55:5:58:GLU:OE2	2.12	0.50
61:AI:10:ARG:NH1	61:AI:60:GLU:OE1	2.43	0.50
35:AR:129:U:O4	80:AR:3434:OHX:N4	2.44	0.50
35:AR:288:C:H2'	35:AR:289:A:C8	2.47	0.50
35:AR:592:A:H5'	40:CH:17:ALA:O	2.12	0.50
35:AR:701:G:H2'	35:AR:702:C:C6	2.47	0.50
35:AR:1233:G:H5'	71:p0:36:GLN:OE1	2.11	0.50
35:AR:1381:A:OP1	38:CF:197:ARG:NH1	2.39	0.50
35:AR:1699:A:H2'	35:AR:1700:G:C8	2.47	0.50
35:AR:1783:U:H2'	35:AR:1784:G:H8	1.75	0.50
35:AR:3204:C:H2'	35:AR:3205:G:C8	2.47	0.50
36:AS:9:C:OP1	54:CV:28:SER:HB3	2.12	0.50
38:CF:250:TRP:CZ3	38:CF:258:LEU:HD11	2.46	0.50
39:CG:105:ILE:O	39:CG:109:THR:HG23	2.12	0.50
43:CK:75:VAL:O	43:CK:79:ILE:HG13	2.11	0.50
51:CS:102:ALA:HA	51:CS:122:ILE:O	2.12	0.50
72:a:43:ASP:HB3	72:a:46:LYS:HB2	1.94	0.50
73:b:84:VAL:CG1	73:b:85:ARG:H	2.25	0.50
75:d:27:GLN:HA	75:d:43:ASN:ND2	2.27	0.50
76:e:21:CYS:HB3	76:e:25:SER:H	1.76	0.50
78:g:121:CYS:SG	78:g:123:ASN:HB2	2.52	0.50
79:h:85:TRP:HA	79:h:109:ASP:HB3	1.93	0.50
1:sR:292:U:H2'	1:sR:293:U:C6	2.46	0.50
1:sR:386:G:H2'	1:sR:387:A:C8	2.46	0.50
1:sR:628:G:N1	1:sR:970:A:OP2	2.34	0.50
1:sR:886:U:OP2	3:s1:216:LYS:NZ	2.42	0.50
5:s3:66:ILE:HD12	5:s3:67:ASN:N	2.27	0.50
8:s6:155:ASP:OD1	8:s6:155:ASP:N	2.31	0.50
12:c0:42:VAL:HA	12:c0:45:ALA:HB3	1.93	0.50
16:c5:15:HIS:O	16:c5:22:LEU:HB2	2.12	0.50
16:c5:130:ARG:HB3	16:c5:133:ALA:HB2	1.92	0.50
17:c6:65:ILE:CD1	17:c6:65:ILE:CB	2.79	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:d5:105:THR:O	72:d5:105:THR:OG1	2.27	0.50
73:d6:28:LYS:NZ	73:d6:76:SER:OG	2.45	0.50
74:d7:56:CYS:N	74:d7:59:CYS:SG	2.84	0.50
1:A:53:G:H2'	1:A:54:C:H6	1.77	0.50
1:A:151:G:H2'	1:A:152:U:C6	2.47	0.50
1:A:279:G:H2'	1:A:281:G:H5'	1.93	0.50
1:A:505:A:H3'	1:A:506:A:H5"	1.93	0.50
1:A:885:G:H2'	1:A:886:U:C6	2.46	0.50
1:A:1261:G:H2'	1:A:1262:U:O4'	2.11	0.50
1:A:1405:G:P	7:G:80:LYS:HZ2	2.35	0.50
1:A:1480:G:OP1	20:U:60:SER:OG	2.28	0.50
1:A:1610:G:OP2	17:R:75:VAL:HG11	2.11	0.50
2:B:12:GLU:HA	2:B:15:GLN:NE2	2.27	0.50
2:B:178:ALA:O	2:B:182:LEU:HG	2.11	0.50
4:D:175:GLY:CA	11:K:53:ARG:HH12	2.24	0.50
5:E:148:LYS:HB2	70:i:110:TRP:CH2	2.47	0.50
6:F:180:LEU:HD13	6:F:194:THR:HG22	1.93	0.50
11:K:45:ILE:HD12	11:K:105:LEU:HG	1.94	0.50
14:O:46:THR:OG1	14:O:49:GLN:HG3	2.12	0.50
24:Y:43:PHE:C	24:Y:45:GLY:H	2.20	0.50
28:AB:58:MET:CE	35:1:2786:G:H21	2.25	0.50
26:DB:101:PHE:HA	26:DB:107:ARG:HG3	1.93	0.50
30:DE:38:LYS:C	30:DE:93:LEU:HD23	2.37	0.50
35:1:59:G:H2'	37:4:33:A:O2'	2.12	0.50
35:1:1724:U:H1'	35:1:1725:C:C6	2.47	0.50
35:1:3052:G:H2'	35:1:3053:G:H8	1.76	0.50
35:1:3243:A:C8	49:w:156:LEU:HD22	2.47	0.50
36:3:87:G:OP1	41:o:218:ARG:NE	2.45	0.50
38:l:107:ARG:HG2	38:l:108:LYS:N	2.26	0.50
41:o:173:LEU:HB3	41:o:178:ILE:HB	1.94	0.50
47:u:76:ALA:HB1	47:u:80:THR:OG1	2.11	0.50
52:z:109:TYR:HB3	52:z:115:ILE:HG12	1.94	0.50
35:AR:1258:U:O2	35:AR:1260:A:H8	1.94	0.50
35:AR:1622:U:H2'	35:AR:1623:G:O4'	2.12	0.50
35:AR:1895:A:O2'	35:AR:3053:G:H4'	2.12	0.50
35:AR:2355:G:H4'	50:CR:139:TYR:CE1	2.47	0.50
35:AR:3209:A:C2	47:CO:106:ARG:HD3	2.46	0.50
41:CI:216:VAL:HG22	41:CI:217:PRO:HD2	1.93	0.50
63:DL:8:PHE:O	63:DL:11:ARG:HG3	2.12	0.50
79:h:111:MET:HE3	79:h:111:MET:HA	1.94	0.50
1:sR:140:A:H1'	8:s6:179:VAL:HG11	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1268:G:H1'	1:sR:1448:G:H5"	1.93	0.50
79:Rb:32:LEU:HD21	79:Rb:73:LEU:HD21	1.93	0.50
2:s0:103:THR:HG22	2:s0:103:THR:O	2.11	0.50
5:s3:50:ILE:HD11	5:s3:86:LEU:HD23	1.93	0.50
6:s4:140:VAL:HA	6:s4:145:ARG:O	2.10	0.50
7:s5:98:MET:O	7:s5:104:ASN:HA	2.11	0.50
18:c7:29:GLN:HA	18:c7:32:LYS:CD	2.42	0.50
23:d2:36:LYS:O	23:d2:40:VAL:HG13	2.12	0.50
74:d7:3:LEU:O	74:d7:4:VAL:HG13	2.12	0.50
1:A:331:A:H5'	10:J:33:PRO:HA	1.94	0.50
1:A:531:C:H2'	1:A:532:U:H5'	1.93	0.50
1:A:871:G:H4'	74:c:66:PRO:HB3	1.93	0.50
1:A:1460:A:O4'	70:i:71:ASN:HB3	2.12	0.50
1:A:1721:A:O2'	8:H:64:LYS:NZ	2.43	0.50
10:J:54:LYS:HG2	10:J:175:GLN:O	2.12	0.50
11:K:158:PHE:CD1	11:K:158:PHE:N	2.78	0.50
15:P:16:VAL:HG23	15:P:31:THR:HG22	1.93	0.50
19:T:36:LYS:HB2	19:T:102:ALA:HA	1.94	0.50
19:T:61:LEU:H	19:T:61:LEU:CD2	2.21	0.50
21:V:39:SER:HA	21:V:42:VAL:HB	1.94	0.50
26:AA:26:VAL:HG21	26:AA:96:VAL:HG12	1.93	0.50
28:AB:99:ALA:H	46:t:157:ARG:H	1.59	0.50
31:CD:206:PRO:HG3	31:CD:213:GLY:HA3	1.94	0.50
33:CE:228:GLY:O	33:CE:232:ARG:HB3	2.12	0.50
30:DE:47:ASN:HD22	35:AR:1729:A:N6	2.10	0.50
35:1:519:A:O5'	41:o:70:LYS:NZ	2.45	0.50
35:1:787:G:H2'	35:1:788:C:C6	2.47	0.50
35:1:1184:A:H2'	35:1:1185:C:C6	2.47	0.50
35:1:1221:A:H3'	35:1:1222:G:H5"	1.94	0.50
35:1:1336:U:H2'	35:1:1337:A:C8	2.46	0.50
35:1:1470:U:H2'	35:1:1471:U:C6	2.46	0.50
35:1:3050:U:OP2	80:1:4171:OHX:N3	2.45	0.50
38:l:9:HIS:HE1	38:l:147:GLU:OE2	1.95	0.50
39:m:244:HIS:O	39:m:248:ARG:HG3	2.12	0.50
45:s:40:LEU:O	45:s:79:ILE:HD11	2.10	0.50
45:s:89:TYR:O	45:s:169:ALA:C	2.55	0.50
47:u:116:GLU:HA	47:u:119:GLN:HG3	1.92	0.50
48:v:60:VAL:O	48:v:61:ILE:HD13	2.12	0.50
51:y:125:ASP:OD1	51:y:125:ASP:N	2.42	0.50
27:9:118:LEU:O	27:9:122:LYS:HG3	2.11	0.50
35:AR:209:A:H4'	35:AR:211:A:C8	2.47	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:356:C:OP2	80:AR:3682:OHX:N6	2.44	0.50
35:AR:585:A:OP2	80:AR:3598:OHX:N3	2.45	0.50
35:AR:717:C:H2'	35:AR:718:G:O4'	2.12	0.50
35:AR:802:C:H2'	35:AR:803:C:C6	2.46	0.50
35:AR:2930:A:H2'	35:AR:2931:C:H6	1.76	0.50
38:CF:191:LYS:HB2	38:CF:194:TYR:CZ	2.47	0.50
40:CH:52:VAL:HG11	40:CH:65:ILE:CD1	2.39	0.50
45:CM:99:THR:O	45:CM:154:THR:OG1	2.29	0.50
48:CP:21:PHE:HD1	48:CP:22:LEU:HD23	1.76	0.50
48:CP:99:ARG:NH1	48:CP:118:SER:O	2.44	0.50
53:CU:9:VAL:CG1	53:CU:58:ILE:HD11	2.42	0.50
72:a:47:TYR:CD1	72:a:50:ILE:HD11	2.47	0.50
73:b:43:ASN:N	73:b:43:ASN:OD1	2.43	0.50
79:h:19:TRP:N	79:h:38:ARG:HB2	2.27	0.50
79:h:35:SER:HG	79:h:43:ILE:H	1.58	0.50
79:h:133:VAL:HG23	79:h:141:LEU:HB2	1.93	0.50
1:sR:175:G:O6	80:sR:2176:OHX:N6	2.44	0.50
1:sR:592:A:O2'	1:sR:596:C:OP1	2.28	0.50
1:sR:716:C:H42	1:sR:722:G:H1	1.60	0.50
1:sR:1022:C:O2'	1:sR:1125:A:N1	2.39	0.50
79:Rb:87:LYS:HG2	79:Rb:108:SER:C	2.36	0.50
79:Rb:129:LYS:HG2	79:Rb:149:ASP:O	2.12	0.50
79:Rb:178:VAL:HG12	79:Rb:192:PHE:HD2	1.76	0.50
2:s0:180:GLU:HA	2:s0:183:ARG:HB2	1.93	0.50
5:s3:71:LEU:HD23	5:s3:72:LEU:N	2.24	0.50
7:s5:131:GLN:O	7:s5:135:ASP:HB2	2.12	0.50
10:s8:34:ALA:HB2	10:s8:56:ARG:HD3	1.94	0.50
11:s9:110:GLN:NE2	11:s9:126:ARG:HG3	2.27	0.50
13:c1:93:TYR:HB2	13:c1:100:TYR:CE1	2.47	0.50
16:c5:67:ALA:O	80:c5:201:OHX:N5	2.44	0.50
73:d6:57:SER:OG	73:d6:58:VAL:N	2.43	0.50
1:A:42:G:O6	80:A:1908:OHX:N6	2.45	0.50
1:A:582:U:H3'	1:A:583:C:C5	2.47	0.50
1:A:702:G:C2	1:A:703:G:H1'	2.47	0.50
1:A:708:C:O2	1:A:709:C:H5	1.93	0.50
1:A:732:G:H2'	1:A:732:G:N3	2.26	0.50
3:C:181:LEU:O	3:C:185:THR:HG23	2.12	0.50
3:C:191:GLU:HG3	3:C:194:ASN:ND2	2.26	0.50
10:J:106:ALA:CB	10:J:165:LEU:HG	2.41	0.50
17:R:129:PHE:CD2	21:V:79:TRP:HB2	2.46	0.50
18:S:101:ASN:HA	18:S:120:SER:CB	2.42	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:T:6:GLN:HA	72:a:42:LEU:CG	2.36	0.50
26:DB:122:HIS:HD2	26:DB:131:PHE:CG	2.30	0.50
35:1:129:U:H2'	35:1:130:A:H8	1.73	0.50
35:1:1046:A:H2'	35:1:1049:C:C5	2.47	0.50
35:1:1470:U:H2'	35:1:1471:U:H6	1.76	0.50
35:1:1844:C:O2	63:AK:9:GLY:HA2	2.12	0.50
33:k:212:ASN:ND2	33:k:353:GLU:HA	2.26	0.50
38:l:351:PRO:HA	41:o:71:ALA:HA	1.94	0.50
41:o:160:ARG:HB2	41:o:203:TRP:CE3	2.46	0.50
42:p:190:VAL:HG22	42:p:190:VAL:O	2.12	0.50
43:q:169:ASN:O	43:q:170:LYS:HD3	2.11	0.50
45:s:101:ASN:ND2	45:s:130:VAL:HG23	2.27	0.50
55:5:96:VAL:HG12	55:5:97:SER:N	2.27	0.50
35:AR:66:A:OP2	46:CN:100:ARG:NH1	2.44	0.50
35:AR:608:A:H5'	38:CF:322:GLN:HB3	1.94	0.50
35:AR:671:U:OP2	51:CS:57:ILE:HD13	2.12	0.50
35:AR:955:U:H2'	35:AR:956:U:C6	2.47	0.50
35:AR:1258:U:N3	35:AR:1261:G:OP2	2.32	0.50
35:AR:2764:C:OP1	51:CS:182:LYS:HE3	2.12	0.50
36:AS:27:A:H2'	36:AS:28:C:C6	2.46	0.50
37:AT:14:C:H2'	37:AT:15:G:C8	2.47	0.50
38:CF:333:VAL:HG23	38:CF:337:GLU:HG3	1.93	0.50
40:CH:45:GLY:O	40:CH:48:ARG:HD3	2.12	0.50
40:CH:138:GLN:HE21	40:CH:142:ASP:CG	2.19	0.50
45:CM:60:ARG:HH22	68:DQ:105:GLN:HA	1.77	0.50
45:CM:116:TYR:C	45:CM:116:TYR:CD1	2.89	0.50
47:CO:115:PHE:O	47:CO:119:GLN:HG3	2.12	0.50
52:CT:10:LEU:O	52:CT:14:VAL:HG13	2.10	0.50
66:DO:127:LEU:O	66:DO:128:LYS:HB2	2.12	0.50
72:a:80:LEU:HD12	72:a:80:LEU:H	1.76	0.50
75:d:27:GLN:HG2	75:d:43:ASN:ND2	2.26	0.50
1:sR:830:U:O2'	1:sR:831:U:H5'	2.11	0.50
3:s1:99:ASN:OD1	3:s1:100:PHE:N	2.44	0.50
4:s2:144:TRP:O	23:d2:97:ARG:HD3	2.12	0.50
5:s3:105:MET:CE	5:s3:136:VAL:HG11	2.41	0.50
11:s9:96:VAL:HA	11:s9:99:LEU:CD1	2.42	0.50
21:d0:51:VAL:HG21	21:d0:93:LEU:HA	1.94	0.50
25:d4:20:ARG:HB3	25:d4:76:TYR:CD2	2.46	0.50
1:A:532:U:H2'	1:A:533:U:O4'	2.12	0.49
1:A:778:G:H3'	1:A:780:A:C2	2.47	0.49
1:A:962:C:OP1	14:O:70:LYS:HB3	2.11	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1257:U:H1'	12:L:3:MET:O	2.12	0.49
1:A:1391:A:H2'	1:A:1392:U:C6	2.46	0.49
3:C:95:ASN:O	3:C:96:LEU:HB3	2.10	0.49
3:C:144:ARG:HA	3:C:208:GLN:OE1	2.12	0.49
5:E:44:THR:O	5:E:45:LYS:HD3	2.12	0.49
6:F:205:PHE:CD2	6:F:221:ARG:HD3	2.47	0.49
12:L:28:ASN:H	12:L:40:LEU:HD11	1.77	0.49
17:R:39:VAL:H	17:R:45:ARG:NH2	2.09	0.49
20:U:121:GLY:C	20:U:122:ARG:HG3	2.37	0.49
27:DA:85:VAL:O	27:DA:85:VAL:HG23	2.12	0.49
35:1:643:U:O2'	35:1:1153:A:N1	2.34	0.49
35:1:2178:A:H3'	31:j:132:ASN:ND2	2.24	0.49
35:1:2352:A:H5"	50:x:83:TRP:O	2.12	0.49
35:1:3084:C:O2'	35:1:3332:U:OP1	2.23	0.49
37:4:19:C:OP2	80:4:210:OHX:N5	2.45	0.49
37:4:83:C:H4'	37:4:85:G:N3	2.27	0.49
31:j:33:ASP:O	31:j:37:ARG:HG2	2.12	0.49
39:m:103:LEU:O	39:m:107:ARG:HG2	2.12	0.49
43:q:20:ILE:HA	43:q:24:ILE:O	2.11	0.49
43:q:87:LYS:HE2	43:q:145:VAL:HG11	1.93	0.49
45:s:21:ILE:HG22	45:s:23:VAL:HG23	1.93	0.49
58:8:81:ILE:HA	58:8:124:VAL:O	2.11	0.49
63:AK:52:LYS:O	63:AK:55:ARG:HG2	2.11	0.49
35:AR:38:U:H2'	35:AR:39:A:O4'	2.12	0.49
35:AR:92:G:H5"	35:AR:94:G:N7	2.27	0.49
35:AR:1675:G:H2'	35:AR:1676:A:C8	2.47	0.49
35:AR:1765:U:C5	52:CT:46:LYS:HE2	2.43	0.49
35:AR:2234:G:O6	80:AR:3463:OHX:N1	2.44	0.49
35:AR:2524:A:N1	42:CJ:44:ARG:HD2	2.27	0.49
37:AT:66:A:H2'	37:AT:67:U:C6	2.47	0.49
38:CF:262:TRP:C	38:CF:269:SER:HB2	2.37	0.49
45:CM:92:ARG:HD2	45:CM:173:ASP:OD2	2.12	0.49
45:CM:116:TYR:CE1	45:CM:118:PRO:HA	2.46	0.49
46:CN:124:ILE:HG13	46:CN:126:PHE:HE1	1.75	0.49
71:p0:105:VAL:HG23	71:p0:184:GLY:HA3	1.94	0.49
79:h:118:LYS:HE3	79:h:120:SER:OG	2.12	0.49
1:sR:37:U:O2'	1:sR:770:A:N1	2.43	0.49
1:sR:138:A:H61	1:sR:266:A:H61	1.60	0.49
1:sR:881:A:OP2	80:sR:1965:OHX:N2	2.45	0.49
1:sR:1363:U:H3'	1:sR:1364:G:H8	1.77	0.49
79:Rb:187:GLN:HG2	79:Rb:188:ILE:N	2.26	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Rb:201:THR:OG1	79:Rb:202:LEU:N	2.44	0.49
79:Rb:283:LYS:NZ	79:Rb:286:GLU:OE2	2.34	0.49
4:s2:227:PRO:HA	4:s2:230:TRP:CD1	2.47	0.49
7:s5:186:ASN:OD1	7:s5:188:LYS:HB2	2.12	0.49
10:s8:121:LEU:HD12	10:s8:157:GLU:CG	2.41	0.49
11:s9:60:LEU:HD12	11:s9:97:LEU:HD11	1.94	0.49
11:s9:122:VAL:HG23	11:s9:123:HIS:CD2	2.47	0.49
14:c3:29:SER:O	14:c3:32:SER:N	2.39	0.49
16:c5:106:GLU:O	16:c5:111:MET:HE1	2.12	0.49
18:c7:41:ILE:HG22	18:c7:43:SER:H	1.76	0.49
23:d2:113:HIS:CD2	23:d2:117:ARG:HH21	2.30	0.49
24:d3:61:SER:OG	24:d3:65:ASN:O	2.28	0.49
25:d4:125:LEU:O	25:d4:129:VAL:HG13	2.12	0.49
1:A:5:U:H2'	1:A:6:G:C8	2.47	0.49
1:A:53:G:H2'	1:A:54:C:C6	2.47	0.49
1:A:140:A:H62	1:A:280:U:H3'	1.76	0.49
1:A:248:U:H4'	13:M:36:LYS:HD2	1.94	0.49
1:A:337:G:H3'	13:M:133:LYS:HB2	1.94	0.49
1:A:460:A:H3'	1:A:461:G:H8	1.77	0.49
1:A:587:C:H2'	1:A:588:U:C6	2.46	0.49
1:A:590:C:H2'	1:A:591:A:H8	1.77	0.49
1:A:823:G:H3'	1:A:824:G:H8	1.77	0.49
1:A:857:U:O3'	9:I:116:ARG:NH2	2.45	0.49
1:A:1081:A:O2'	1:A:1082:C:O5'	2.19	0.49
10:J:84:HIS:CD2	10:J:90:LEU:HD13	2.47	0.49
19:T:11:PHE:CE2	72:a:41:ILE:HG21	2.47	0.49
25:Z:114:ARG:HG3	25:Z:117:LYS:NZ	2.27	0.49
26:DB:15:ARG:C	26:DB:19:ALA:HB2	2.37	0.49
26:DB:18:TYR:CE1	26:DB:47:GLU:HG3	2.46	0.49
28:DC:69:TRP:CD2	46:CN:64:LYS:HG3	2.47	0.49
33:CE:126:LYS:N	35:AR:3295:A:OP2	2.37	0.49
35:1:559:A:OP1	35:1:559:A:H4'	2.12	0.49
35:1:1686:U:O2	35:1:1688:U:H1'	2.12	0.49
35:1:1915:A:H2'	35:1:1916:U:C6	2.47	0.49
33:k:41:VAL:HA	33:k:185:GLY:CA	2.42	0.49
43:q:163:GLN:O	43:q:166:ARG:HG3	2.11	0.49
45:s:90:GLN:HA	45:s:170:ASP:HB2	1.93	0.49
50:x:129:THR:HG23	50:x:131:ARG:HD3	1.93	0.49
55:5:36:TYR:CD1	55:5:36:TYR:C	2.90	0.49
61:AI:85:THR:HG22	61:AI:88:LEU:HD12	1.93	0.49
68:AP:10:THR:O	68:AP:20:HIS:HA	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
70:i:112:ASP:H	70:i:115:LYS:HE3	1.76	0.49
35:AR:1195:A:H1'	35:AR:1319:G:H4'	1.94	0.49
35:AR:1387:G:OP1	80:AR:3513[B]:OHX:N6	2.45	0.49
35:AR:2218:G:H2'	35:AR:2219:A:H8	1.76	0.49
35:AR:2400:G:HO2'	35:AR:2401:A:P	2.33	0.49
35:AR:2615:G:H2'	35:AR:2616:C:H6	1.77	0.49
37:AT:2:A:C4	37:AT:3:A:C8	3.01	0.49
49:CQ:3:VAL:HG13	49:CQ:4:GLU:HG3	1.93	0.49
52:CT:98:ARG:O	52:CT:101:VAL:HG22	2.12	0.49
52:CT:151:ARG:HD3	52:CT:151:ARG:C	2.37	0.49
53:CU:148:LEU:HD12	53:CU:149:LYS:N	2.28	0.49
55:CW:12:ALA:HB2	55:CW:68:THR:HG22	1.93	0.49
56:CX:12:ARG:HG3	56:CX:13:ILE:N	2.23	0.49
75:d:42:ARG:C	75:d:43:ASN:HD22	2.19	0.49
1:sR:181:A:H2'	1:sR:182:A:C8	2.48	0.49
1:sR:1146:G:O3'	4:s2:91:ARG:HA	2.11	0.49
2:s0:200:ASP:HA	2:s0:203:PHE:CZ	2.47	0.49
5:s3:22:ASN:N	5:s3:22:ASN:OD1	2.44	0.49
7:s5:131:GLN:HA	7:s5:134:VAL:HG22	1.95	0.49
7:s5:192:GLU:OE2	72:d5:61:SER:OG	2.11	0.49
8:s6:137:ARG:CD	8:s6:177:ARG:HH11	2.25	0.49
8:s6:149:LYS:HD3	8:s6:150:GLU:N	2.26	0.49
13:c1:75:VAL:HG13	13:c1:120:GLY:H	1.77	0.49
22:d1:45:ALA:O	22:d1:47:PRO:HD3	2.12	0.49
22:d1:68:SER:O	22:d1:71:ARG:HB3	2.12	0.49
23:d2:27:ILE:HB	23:d2:61:ILE:HB	1.94	0.49
23:d2:35:ILE:O	23:d2:39:GLN:HG3	2.13	0.49
25:d4:29:HIS:HB2	25:d4:67:GLY:HA2	1.92	0.49
76:d9:32:ARG:HA	76:d9:37:ASN:H	1.76	0.49
1:A:139:C:H1'	1:A:140:A:OP2	2.12	0.49
1:A:188:A:N7	1:A:197:A:H2	2.10	0.49
1:A:226:A:C2'	1:A:227:U:H5'	2.42	0.49
1:A:1017:U:H2'	1:A:1018:U:C6	2.48	0.49
1:A:1409:G:N2	1:A:1411:A:H3'	2.27	0.49
3:C:145:LYS:CA	3:C:149:GLN:HE21	2.24	0.49
4:D:228:ASN:N	4:D:228:ASN:OD1	2.44	0.49
5:E:52:ALA:O	5:E:91:VAL:HG22	2.12	0.49
7:G:99:MET:HB2	7:G:180:ARG:NH2	2.27	0.49
28:AB:134:ALA:O	28:AB:138:ILE:HG13	2.11	0.49
30:DE:9:SER:OG	30:DE:12:GLN:HB3	2.12	0.49
35:1:275:U:H2'	35:1:276:U:C6	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1084:A:H4'	39:m:44:TYR:CE1	2.47	0.49
35:1:1723:A:OP1	52:z:128:LYS:NZ	2.46	0.49
35:1:1862:U:OP2	80:1:4172:OHX:N3	2.45	0.49
35:1:2513:U:OP2	80:1:3433:OHX:N5	2.45	0.49
35:1:2991:A:P	33:k:20:LYS:HB2	2.52	0.49
36:3:60:G:H2'	36:3:61:G:C8	2.46	0.49
80:3:220:OHX:N6	80:3:222:OHX:N5	2.60	0.49
31:j:52:SER:HB3	31:j:191:LEU:CD2	2.43	0.49
31:j:118:GLU:HG3	31:j:125:ALA:HB3	1.95	0.49
33:k:292:ALA:HB2	33:k:302:LYS:HA	1.94	0.49
38:l:98:ARG:HG2	38:l:99:MET:O	2.11	0.49
41:o:53:LYS:O	41:o:57:THR:OG1	2.24	0.49
43:q:23:ARG:HH11	43:q:23:ARG:HG3	1.76	0.49
35:AR:756:U:H2'	35:AR:757:C:C6	2.47	0.49
35:AR:1695:U:O2'	35:AR:1749:A:N1	2.39	0.49
35:AR:2263:C:H1'	35:AR:2264:U:H5'	1.93	0.49
35:AR:3166:C:H42	35:AR:3284:G:H1	1.58	0.49
35:AR:3281:U:H2'	35:AR:3282:U:C6	2.48	0.49
42:CJ:34:PHE:CD1	42:CJ:42:PRO:HD3	2.47	0.49
51:CS:36:LEU:O	51:CS:40:THR:OG1	2.09	0.49
51:CS:135:GLN:N	51:CS:135:GLN:OE1	2.45	0.49
1:sR:703:G:H2'	1:sR:704:C:H6	1.76	0.49
1:sR:889:U:H2'	1:sR:890:C:C6	2.47	0.49
1:sR:1533:C:H4'	1:sR:1539:G:H1	1.75	0.49
1:sR:1729:C:O2'	10:s8:2:GLY:HA2	2.12	0.49
79:Rb:68:VAL:HA	79:Rb:84:SER:CB	2.34	0.49
2:s0:27:ARG:HA	2:s0:46:HIS:CD2	2.47	0.49
2:s0:144:ILE:HG13	2:s0:158:VAL:O	2.12	0.49
3:s1:134:VAL:HG22	3:s1:219:LYS:CB	2.43	0.49
5:s3:34:TYR:HE1	5:s3:36:GLY:O	1.95	0.49
5:s3:94:ARG:O	5:s3:101:GLN:NE2	2.45	0.49
6:s4:18:TRP:O	6:s4:51:ARG:NH2	2.44	0.49
8:s6:214:LYS:HB2	8:s6:218:GLU:HG3	1.94	0.49
9:s7:77:LEU:HD22	9:s7:92:PHE:HZ	1.75	0.49
13:c1:8:GLN:HE22	13:c1:14:GLN:H	1.60	0.49
13:c1:129:ARG:O	13:c1:130:PRO:C	2.55	0.49
14:c3:119:GLU:O	14:c3:123:HIS:ND1	2.45	0.49
16:c5:85:ILE:HA	16:c5:89:MET:HE2	1.93	0.49
19:c8:50:ALA:CB	19:c8:69:ILE:HG22	2.42	0.49
77:e0:37:ARG:O	77:e0:41:THR:HG23	2.11	0.49
1:A:765:G:C8	11:K:149:ARG:NH1	2.80	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:915:A:N3	1:A:915:A:H2'	2.27	0.49
1:A:1237:G:H2'	1:A:1238:A:C8	2.48	0.49
1:A:1381:U:O4	1:A:1382:A:N6	2.46	0.49
2:B:172:LEU:HD22	2:B:176:LEU:HD11	1.93	0.49
3:C:83:LYS:HE3	15:P:116:GLU:CD	2.36	0.49
4:D:58:LEU:HB3	4:D:59:HIS:CE1	2.47	0.49
4:D:89:GLN:HE22	4:D:94:GLN:HG3	1.76	0.49
4:D:180:ALA:HB2	4:D:198:THR:OG1	2.11	0.49
5:E:133:GLY:HA3	5:E:156:PHE:O	2.12	0.49
7:G:99:MET:O	7:G:103:ASN:HB2	2.12	0.49
10:J:3:ILE:H	10:J:3:ILE:HD12	1.78	0.49
16:Q:110:GLU:H	16:Q:110:GLU:CD	2.18	0.49
20:U:97:SER:OG	20:U:100:ILE:HG13	2.13	0.49
24:Y:79:ASN:HD21	24:Y:81:LYS:CD	2.25	0.49
25:Z:20:ARG:C	25:Z:21:LYS:HD3	2.37	0.49
27:DA:42:GLN:O	27:DA:125:LYS:HD2	2.13	0.49
26:DB:96:VAL:O	26:DB:96:VAL:HG23	2.11	0.49
28:DC:45:MET:HE3	46:CN:3:ILE:HG21	1.93	0.49
31:CD:193:ARG:CZ	35:AR:2181:C:H5"	2.42	0.49
33:CE:313:HIS:O	33:CE:333:LYS:HE2	2.12	0.49
35:1:804:C:OP1	38:l:98:ARG:NH2	2.44	0.49
35:1:2148:U:H2'	35:1:2149:A:C8	2.47	0.49
35:1:2808:A:H5'	35:1:2808:A:C8	2.47	0.49
35:1:3106:A:N6	35:1:3128:G:H1'	2.27	0.49
35:1:3281:U:H2'	35:1:3282:U:C6	2.47	0.49
35:1:3335:A:N7	35:1:3370:A:O2'	2.43	0.49
43:q:41:ILE:HG23	43:q:43:VAL:HG13	1.94	0.49
43:q:118:LEU:O	43:q:118:LEU:HD23	2.13	0.49
50:x:184:ALA:HA	80:x:209:OHX:N2	2.28	0.49
54:2:70:SER:HB2	54:2:92:ARG:NH1	2.27	0.49
35:AR:608:A:O4'	38:CF:322:GLN:HG3	2.12	0.49
35:AR:715:A:H4'	35:AR:716:A:OP1	2.11	0.49
35:AR:1675:G:H2'	35:AR:1676:A:H8	1.77	0.49
35:AR:3153:U:H3'	35:AR:3154:C:C6	2.48	0.49
35:AR:3267:A:H2'	40:CH:69:PHE:CZ	2.47	0.49
39:CG:243:ALA:O	39:CG:247:ILE:HG13	2.12	0.49
41:CI:62:ILE:O	41:CI:66:LYS:HG3	2.12	0.49
49:CQ:155:LYS:HG3	49:CQ:156:LEU:N	2.26	0.49
65:DN:27:ILE:O	65:DN:33:ASN:ND2	2.45	0.49
79:h:38:ARG:O	79:h:67:ILE:HD13	2.12	0.49
79:h:158:PRO:HD2	79:h:208:GLY:HA2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:138:A:N6	1:sR:266:A:H61	2.11	0.49
1:sR:153:G:H2'	1:sR:154:G:C8	2.48	0.49
1:sR:176:C:H2'	1:sR:177:U:H5'	1.94	0.49
1:sR:189:C:N4	10:s8:141:ARG:HH21	2.10	0.49
1:sR:208:U:O4'	10:s8:178:ARG:HD2	2.12	0.49
1:sR:1085:G:O6	80:sR:1907:OHX:N5	2.45	0.49
1:sR:1416:G:C2'	1:sR:1417:A:H5'	2.43	0.49
79:Rb:45:TRP:N	79:Rb:45:TRP:CD1	2.80	0.49
3:s1:71:ALA:HB3	15:c4:114:ARG:NH1	2.28	0.49
3:s1:148:ASN:ND2	3:s1:148:ASN:H	2.11	0.49
17:c6:64:ASP:O	17:c6:65:ILE:HD13	2.12	0.49
19:c8:145:ARG:HA	19:c8:145:ARG:NE	2.26	0.49
1:A:167:U:H1'	8:H:133:LEU:HD23	1.95	0.49
1:A:224:C:H2'	1:A:225:A:C8	2.46	0.49
1:A:498:G:N7	1:A:499:U:N3	2.60	0.49
1:A:1147:A:H2'	1:A:1148:C:H6	1.75	0.49
1:A:1489:U:H5'	1:A:1494:C:H1'	1.95	0.49
1:A:1580:C:O3'	17:R:137:ARG:HG2	2.12	0.49
1:A:1657:U:H4'	1:A:1658:G:O5'	2.12	0.49
3:C:106:THR:C	3:C:110:LEU:HD12	2.37	0.49
3:C:125:VAL:HG21	3:C:173:THR:HG23	1.94	0.49
3:C:196:GLU:HA	3:C:199:ASN:OD1	2.13	0.49
9:I:7:LYS:N	9:I:7:LYS:HD3	2.28	0.49
9:I:89:HIS:ND1	9:I:168:SER:OG	2.44	0.49
9:I:101:LYS:NZ	9:I:103:SER:HA	2.27	0.49
11:K:53:ARG:NH1	11:K:97:LEU:O	2.46	0.49
18:S:28:PHE:HE1	18:S:51:ALA:HB3	1.78	0.49
19:T:7:GLU:N	19:T:7:GLU:OE1	2.45	0.49
26:DB:112:LYS:HA	26:DB:115:LYS:HB3	1.94	0.49
33:CE:186:GLY:O	33:CE:191:LYS:NZ	2.36	0.49
35:1:15:C:H5'	58:8:40:LEU:O	2.13	0.49
35:1:677:A:H4'	35:1:678:G:O5'	2.12	0.49
35:1:811:U:H2'	35:1:812:G:C8	2.48	0.49
35:1:1734:G:H2'	35:1:1735:G:O4'	2.11	0.49
35:1:2207:A:O2'	35:1:2208:A:H5'	2.12	0.49
35:1:2709:C:H2'	35:1:2710:C:H6	1.78	0.49
35:1:2854:U:P	44:r:3:ARG:HH22	2.36	0.49
36:3:27:A:H2'	36:3:28:C:C6	2.48	0.49
36:3:113:C:H2'	36:3:114:U:O4'	2.11	0.49
33:k:107:ALA:HA	33:k:199:PHE:CD2	2.47	0.49
42:p:116:VAL:HG22	42:p:119:GLY:HA3	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:y:87:VAL:O	51:y:107:THR:HG23	2.12	0.49
60:AH:74:ARG:NH2	60:AH:82:ALA:HB2	2.26	0.49
65:AM:24:PRO:O	65:AM:27:ILE:HD12	2.12	0.49
68:AP:3:ASN:ND2	68:AP:95:GLY:O	2.46	0.49
70:i:32:SER:O	70:i:34:LYS:HE2	2.12	0.49
35:AR:92:G:N7	83:AR:4200:SPD:H52	2.27	0.49
35:AR:2344:U:H2'	35:AR:2345:A:H8	1.77	0.49
35:AR:2361:A:H2'	35:AR:2362:C:H6	1.78	0.49
35:AR:2762:A:OP2	80:AR:3490:OHX:N2	2.46	0.49
35:AR:2767:U:O4	80:AR:3537:OHX:N5	2.45	0.49
35:AR:2971:A:OP2	80:AR:3616:OHX:N3	2.44	0.49
35:AR:3134:A:OP1	80:AR:3427:OHX:N3	2.45	0.49
42:CJ:90:THR:O	42:CJ:94:PHE:HD1	1.94	0.49
71:p0:79:PHE:HE2	71:p0:189:GLN:CD	2.20	0.49
79:h:274:LEU:C	79:h:275:ARG:HD3	2.37	0.49
1:sR:1:U:O4	11:s9:54:ARG:HD3	2.13	0.49
1:sR:197:A:H2'	1:sR:198:A:H8	1.77	0.49
1:sR:228:G:H2'	1:sR:229:U:C6	2.48	0.49
1:sR:293:U:OP2	80:sR:1990:OHX:N2	2.46	0.49
1:sR:1356:U:H2'	1:sR:1357:A:C8	2.48	0.49
1:sR:1474:G:H2'	1:sR:1475:A:C8	2.47	0.49
1:sR:1705:C:H2'	1:sR:1706:C:C6	2.48	0.49
1:sR:1783:C:H2'	1:sR:1784:C:C6	2.48	0.49
79:Rb:249:ARG:HD2	79:Rb:251:TRP:CZ3	2.48	0.49
7:s5:135:ASP:HA	7:s5:138:THR:HG23	1.93	0.49
9:s7:20:VAL:HG21	9:s7:81:LEU:HD23	1.95	0.49
11:s9:125:ALA:HA	11:s9:128:LEU:HD13	1.94	0.49
19:c8:113:LEU:O	19:c8:116:LEU:HD23	2.12	0.49
25:d4:57:VAL:HA	25:d4:73:GLY:HA2	1.94	0.49
1:A:103:A:O3'	1:A:308:C:N4	2.46	0.49
1:A:196:G:O2'	1:A:197:A:H8	1.95	0.49
1:A:356:G:OP2	80:A:2149:OHX:N1	2.45	0.49
1:A:1217:A:H8	1:A:1217:A:H5'	1.76	0.49
1:A:1345:A:OP1	21:V:54:GLY:N	2.45	0.49
1:A:1609:U:H5"	17:R:75:VAL:HG12	1.94	0.49
2:B:102:PHE:CE1	2:B:104:PRO:HA	2.47	0.49
2:B:178:ALA:HA	2:B:181:VAL:HG12	1.94	0.49
2:B:187:ALA:O	2:B:188:LEU:CD1	2.60	0.49
3:C:35:PRO:O	3:C:36:SER:C	2.54	0.49
3:C:92:GLN:H	3:C:95:ASN:HB3	1.75	0.49
6:F:92:LEU:HD22	25:Z:17:LEU:HD21	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:I:101:LYS:HZ1	9:I:103:SER:HA	1.78	0.49
10:J:117:TYR:CE2	10:J:146:ARG:HB3	2.46	0.49
15:P:117:ASP:OD1	15:P:119:THR:N	2.23	0.49
19:T:33:THR:HA	19:T:38:VAL:HG21	1.95	0.49
26:AA:15:ARG:O	35:1:1637:A:H5"	2.12	0.49
26:AA:58:GLY:O	26:AA:62:VAL:HG12	2.13	0.49
27:DA:3:LYS:CD	27:DA:8:VAL:HG13	2.43	0.49
27:DA:19:TYR:CZ	35:AR:216:G:H4'	2.48	0.49
28:AB:92:LYS:HD3	28:AB:93:SER:N	2.28	0.49
30:AD:53:LYS:O	30:AD:57:GLU:HG3	2.12	0.49
29:DD:17:HIS:C	29:DD:20:GLY:H	2.21	0.49
33:CE:144:ILE:HG13	33:CE:145:GLU:N	2.27	0.49
33:CE:188:ILE:O	33:CE:192:VAL:HG12	2.12	0.49
33:CE:195:ALA:O	33:CE:199:PHE:HD1	1.95	0.49
30:DE:47:ASN:OD1	30:DE:73:GLY:HA2	2.12	0.49
35:1:269:G:H5"	48:v:14:LYS:HE3	1.95	0.49
35:1:277:G:H2'	35:1:278:U:C6	2.47	0.49
35:1:398:A:O2'	35:1:1416:C:OP1	2.24	0.49
35:1:821:U:OP1	80:1:3488:OHX:N6	2.46	0.49
35:1:1267:U:H2'	35:1:1268:G:O4'	2.13	0.49
35:1:1544:G:OP1	48:v:127:TYR:OH	2.26	0.49
35:1:2541:U:O2'	35:1:2542:U:OP2	2.27	0.49
35:1:3278:C:H2'	35:1:3278:C:O2	2.12	0.49
39:m:94:ASN:OD1	39:m:97:ALA:N	2.46	0.49
41:o:197:GLN:OE1	41:o:197:GLN:N	2.38	0.49
42:p:72:PRO:O	42:p:75:ILE:O	2.31	0.49
52:z:159:ALA:HA	52:z:162:ARG:HH11	1.77	0.49
55:5:29:ASP:OD1	55:5:32:SER:N	2.41	0.49
58:8:137:ASN:HB3	58:8:142:ILE:HD11	1.95	0.49
60:AH:83:ASN:O	60:AH:87:GLU:HG3	2.13	0.49
68:AP:14:GLY:C	68:AP:16:THR:H	2.20	0.49
35:AR:275:U:H2'	35:AR:276:U:C6	2.47	0.49
35:AR:2528:G:O3'	42:CJ:248:LYS:HE2	2.11	0.49
35:AR:2599:U:H5"	48:CP:70:ASN:ND2	2.28	0.49
35:AR:2871:G:H5"	35:AR:2872:A:H5'	1.95	0.49
35:AR:3022:G:O2'	35:AR:3031:G:O6	2.21	0.49
35:AR:3121:U:H1'	35:AR:3122:A:H5"	1.95	0.49
35:AR:3131:U:H2'	35:AR:3132:C:H6	1.76	0.49
44:CL:153:ARG:HG3	44:CL:156:ARG:HH21	1.78	0.49
47:CO:47:ASP:OD1	47:CO:49:PRO:HD3	2.12	0.49
56:CX:94:TYR:CZ	57:CY:21:PHE:HB2	2.47	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
32:DF:55:LEU:O	32:DF:59:ILE:HG13	2.12	0.49
59:DH:45:LEU:HA	59:DH:71:VAL:CG1	2.43	0.49
62:DK:61:ILE:HD13	62:DK:69:ALA:HB1	1.93	0.49
64:DM:10:GLN:O	64:DM:13:GLU:HG2	2.12	0.49
73:b:55:GLU:HA	73:b:55:GLU:OE1	2.13	0.49
79:h:172:ALA:CB	79:h:202:LEU:HD12	2.27	0.49
79:h:260:ILE:CG2	79:h:289:ALA:HB3	2.43	0.49
1:sR:197:A:N1	10:s8:141:ARG:NH2	2.60	0.49
1:sR:1117:U:H2'	1:sR:1118:G:C8	2.48	0.49
1:sR:1144:U:H2'	1:sR:1145:U:H6	1.77	0.49
1:sR:1471:A:H2	1:sR:1474:G:N3	2.11	0.49
1:sR:1584:G:C8	17:c6:122:ARG:HB3	2.48	0.49
1:sR:1785:U:H2'	1:sR:1786:G:H8	1.78	0.49
79:Rb:68:VAL:CA	79:Rb:84:SER:HB2	2.35	0.49
79:Rb:275:ARG:HG2	79:Rb:275:ARG:O	2.13	0.49
2:s0:41:ARG:NH2	2:s0:45:VAL:HG23	2.28	0.49
4:s2:65:GLU:HB3	4:s2:67:GLN:OE1	2.12	0.49
5:s3:40:ARG:HE	21:d0:110:PRO:CG	2.26	0.49
6:s4:95:THR:HB	25:d4:16:PRO:HG2	1.95	0.49
7:s5:77:TYR:HD1	7:s5:83:ARG:HG2	1.78	0.49
8:s6:3:LEU:CD1	8:s6:18:ILE:HG12	2.39	0.49
9:s7:182:VAL:HG12	9:s7:183:PHE:H	1.76	0.49
11:s9:146:PHE:CD1	11:s9:148:VAL:HG23	2.48	0.49
11:s9:150:LEU:O	11:s9:153:GLU:HB2	2.12	0.49
15:c4:103:ARG:CD	73:d6:49:ALA:HB2	2.43	0.49
16:c5:20:VAL:HG12	16:c5:25:LEU:HB2	1.95	0.49
23:d2:8:ALA:CB	23:d2:74:VAL:HG11	2.42	0.49
24:d3:102:VAL:HG12	24:d3:127:VAL:HA	1.92	0.49
24:d3:127:VAL:O	24:d3:130:VAL:HG23	2.12	0.49
78:e1:139:LEU:O	78:e1:149:LYS:HD2	2.11	0.49
1:A:186:C:N3	1:A:199:G:N2	2.58	0.49
1:A:503:G:O2'	1:A:504:U:OP1	2.26	0.49
1:A:602:U:H2'	1:A:603:U:C6	2.48	0.49
1:A:862:A:P	14:O:20:ARG:HE	2.36	0.49
1:A:951:A:H1'	14:O:101:HIS:CG	2.47	0.49
1:A:1586:A:H2'	1:A:1587:A:O4'	2.12	0.49
4:D:59:HIS:NE2	4:D:238:SER:HB3	2.27	0.49
13:M:108:PRO:HG2	13:M:134:THR:HB	1.95	0.49
15:P:107:ARG:HG2	73:b:52:ASP:HB2	1.93	0.49
17:R:114:ARG:CZ	17:R:114:ARG:HA	2.43	0.49
18:S:78:ARG:HD3	18:S:78:ARG:N	2.23	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:S:104:ASN:H	18:S:104:ASN:HD22	1.61	0.49
23:X:30:SER:HA	23:X:61:ILE:HD11	1.94	0.49
29:AC:5:LYS:HG3	29:AC:6:ASN:H	1.78	0.49
28:DC:49:HIS:N	28:DC:50:PRO:HD3	2.27	0.49
32:AE:41:LYS:HA	32:AE:44:MET:O	2.12	0.49
33:CE:21:ARG:HG3	35:AR:2991:A:OP1	2.12	0.49
33:CE:292:ALA:HA	33:CE:303:LYS:N	2.24	0.49
35:1:58:G:H4'	48:v:155:VAL:HG12	1.94	0.49
35:1:748:U:H2'	35:1:749:C:C6	2.47	0.49
35:1:1353:U:O2	40:n:9:TRP:HA	2.13	0.49
35:1:2218:G:H2'	35:1:2219:A:H8	1.77	0.49
35:1:2767:U:H2'	35:1:2768:U:C6	2.47	0.49
35:1:2775:U:H2'	35:1:2776:C:C6	2.47	0.49
35:1:2885:C:O2'	35:1:2886:U:H5'	2.13	0.49
35:1:3315:G:P	33:k:116:ARG:HH22	2.36	0.49
36:3:112:G:OP2	80:3:204:OHX:N3	2.46	0.49
37:4:18:U:OP1	80:4:210:OHX:N2	2.46	0.49
38:l:125:ALA:HB1	38:l:238:LEU:HB3	1.94	0.49
39:m:44:TYR:O	54:2:33:VAL:HG21	2.13	0.49
44:r:205:SER:O	44:r:209:ASN:ND2	2.43	0.49
52:z:134:HIS:CE1	52:z:137:ALA:HB2	2.48	0.49
55:5:30:PRO:HA	55:5:33:TYR:HB3	1.93	0.49
64:AL:77:ARG:HG2	64:AL:77:ARG:NH1	2.22	0.49
35:AR:29:C:H4'	35:AR:62:A:H4'	1.95	0.49
35:AR:360:G:N2	35:AR:815:G:H1'	2.28	0.49
35:AR:576:C:H2'	35:AR:577:C:C6	2.48	0.49
35:AR:1029:G:H2'	35:AR:1030:A:C8	2.42	0.49
35:AR:1378:U:H2'	35:AR:1379:G:C8	2.48	0.49
35:AR:2373:A:N7	35:AR:2867:C:H1'	2.28	0.49
35:AR:2584:G:H1'	42:CJ:240:ASN:ND2	2.27	0.49
35:AR:2683:U:H2'	35:AR:2684:C:H6	1.78	0.49
35:AR:3159:C:H2'	35:AR:3160:U:H6	1.76	0.49
49:CQ:22:VAL:HG21	49:CQ:120:VAL:HG11	1.95	0.49
50:CR:131:ARG:NH1	50:CR:137:ASN:HD22	2.11	0.49
53:CU:2:ALA:HB3	53:CU:32:SER:CB	2.43	0.49
57:CY:5:ILE:O	57:CY:5:ILE:HG13	2.12	0.49
68:DQ:65:THR:OG1	68:DQ:87:ARG:NH1	2.46	0.49
69:DR:76:ALA:O	69:DR:79:VAL:HG22	2.12	0.49
72:a:88:ILE:O	72:a:104:ALA:HB2	2.13	0.49
78:g:132:LEU:HB2	78:g:140:TYR:O	2.12	0.49
1:sR:640:U:H2'	1:sR:641:G:O4'	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:906:A:H2'	1:sR:907:A:C8	2.47	0.49
1:sR:1359:C:O2	20:c9:3:GLY:HA2	2.13	0.49
1:sR:1409:G:N1	1:sR:1412:G:OP2	2.44	0.49
1:sR:1548:G:OP1	16:c5:18:ARG:NH2	2.30	0.49
2:s0:75:ALA:HB1	2:s0:174:TRP:CH2	2.47	0.49
3:s1:134:VAL:HG23	3:s1:218:LEU:HB2	1.95	0.49
7:s5:20:PHE:CE1	7:s5:35:GLN:HB2	2.48	0.49
8:s6:147:LEU:HB3	8:s6:151:ASP:CG	2.38	0.49
12:c0:34:GLU:O	12:c0:35:ILE:O	2.31	0.49
14:c3:130:ARG:HD2	14:c3:137:PRO:O	2.12	0.49
16:c5:30:THR:O	16:c5:34:VAL:HG13	2.12	0.49
19:c8:111:ASP:O	19:c8:115:ARG:HB2	2.12	0.49
21:d0:25:THR:O	21:d0:26:LEU:HD23	2.13	0.49
22:d1:14:PRO:HG2	22:d1:23:ILE:HG23	1.94	0.49
1:A:460:A:H5'	1:A:461:G:OP2	2.13	0.49
1:A:476:U:N1	77:f:31:LYS:HG3	2.28	0.49
1:A:912:U:H4'	1:A:913:G:O5'	2.12	0.49
1:A:1340:U:O4	17:R:9:THR:HA	2.13	0.49
2:B:31:VAL:HG11	2:B:151:SER:O	2.12	0.49
5:E:168:ILE:HG23	5:E:189:MET:HE1	1.94	0.49
6:F:127:LYS:H	6:F:141:THR:HA	1.78	0.49
23:X:3:ARG:HH11	23:X:3:ARG:HB3	1.77	0.49
26:DB:46:ILE:CD1	26:DB:68:ILE:HG23	2.42	0.49
31:CD:227:ARG:HH21	35:AR:2162:U:P	2.35	0.49
35:1:86:G:O2'	46:t:11:LYS:HD3	2.12	0.49
35:1:507:U:H2'	35:1:508:U:H6	1.76	0.49
35:1:1031:C:H2'	35:1:1032:C:C6	2.48	0.49
35:1:1214:U:OP2	53:0:137:ARG:NH2	2.46	0.49
35:1:1322:U:OP1	53:0:117:ARG:NH1	2.46	0.49
35:1:1485:G:N2	60:AH:4:ARG:HD2	2.27	0.49
35:1:2534:G:H2'	35:1:2535:A:H8	1.77	0.49
31:j:190:ARG:NH2	31:j:191:LEU:HD11	2.28	0.49
41:o:223:PHE:N	41:o:229:PHE:O	2.46	0.49
46:t:93:ILE:HG22	46:t:93:ILE:O	2.11	0.49
52:z:8:LYS:HE2	52:z:22:VAL:HG23	1.94	0.49
54:2:126:VAL:HG23	54:2:127:GLN:H	1.78	0.49
55:5:50:LEU:HD23	55:5:54:VAL:HG23	1.94	0.49
56:6:120:LYS:H	56:6:137:VAL:HG23	1.77	0.49
59:AG:15:SER:OG	59:AG:16:TYR:N	2.43	0.49
61:AI:50:SER:O	61:AI:54:VAL:HG23	2.12	0.49
65:AM:43:ASN:HB3	65:AM:46:ARG:HB2	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:320:G:O2'	35:AR:321:C:H5'	2.13	0.49
35:AR:321:C:H5"	48:CP:150:TRP:CE3	2.47	0.49
35:AR:1313:G:OP1	49:CQ:82:LYS:NZ	2.46	0.49
35:AR:1614:C:H2'	35:AR:1615:C:C6	2.48	0.49
35:AR:1662:G:H22	35:AR:1787:A:H2	1.60	0.49
35:AR:1709:C:H2'	35:AR:1710:C:C6	2.47	0.49
35:AR:2516:U:O2'	35:AR:2595:A:N6	2.42	0.49
35:AR:3107:U:H2'	35:AR:3108:G:H8	1.76	0.49
38:CF:135:VAL:HA	38:CF:245:GLY:O	2.12	0.49
44:CL:56:GLU:HB2	44:CL:58:GLU:HG2	1.94	0.49
47:CO:14:LEU:HB2	47:CO:19:ARG:HH21	1.77	0.49
56:CX:63:LYS:O	56:CX:64:LYS:HG2	2.12	0.49
57:CY:35:LYS:HE2	57:CY:51:TRP:CZ2	2.48	0.49
57:CY:45:ASN:OD1	57:CY:47:ARG:HB2	2.13	0.49
73:b:88:SER:O	73:b:92:ARG:HG2	2.12	0.49
79:h:181:TRP:CZ3	79:h:188:ILE:HB	2.48	0.49
79:h:217:ASP:OD1	79:h:217:ASP:N	2.41	0.49
1:sR:811:A:C4	1:sR:858:G:H1'	2.48	0.49
1:sR:837:G:H2'	1:sR:838:G:C8	2.47	0.49
1:sR:1248:C:H2'	1:sR:1249:U:H6	1.77	0.49
1:sR:1458:G:H5"	1:sR:1459:C:OP2	2.12	0.49
1:sR:1539:G:H5'	1:sR:1539:G:C8	2.46	0.49
79:Rb:196:ASN:HB3	79:Rb:217:ASP:OD2	2.12	0.49
7:s5:219:ARG:HG3	7:s5:219:ARG:HH11	1.76	0.49
10:s8:22:ARG:HD2	10:s8:25:ARG:HD2	1.94	0.49
14:c3:93:LYS:O	14:c3:97:SER:OG	2.30	0.49
18:c7:12:ALA:O	18:c7:16:LEU:HD13	2.13	0.49
18:c7:13:SER:HB3	18:c7:54:THR:HG22	1.93	0.49
19:c8:11:PHE:CE1	19:c8:59:GLY:HA3	2.48	0.49
19:c8:45:LEU:HA	19:c8:48:LYS:CG	2.43	0.49
25:d4:112:LYS:HE3	25:d4:113:ASN:ND2	2.28	0.49
76:d9:19:ARG:HD3	76:d9:32:ARG:NE	2.28	0.49
1:A:158:U:O2'	1:A:159:U:H3'	2.13	0.49
1:A:238:U:OP1	1:A:834:G:H4'	2.12	0.49
1:A:312:A:C2	1:A:314:C:H2'	2.48	0.49
1:A:535:A:OP1	11:K:174:ARG:NH1	2.46	0.49
1:A:1097:U:H4'	1:A:1098:U:O5'	2.13	0.49
1:A:1248:C:C2	1:A:1249:U:C5	3.01	0.49
1:A:1401:A:O3'	18:S:10:LYS:NZ	2.46	0.49
2:B:172:LEU:CD2	2:B:176:LEU:HD11	2.42	0.49
2:B:198:MET:HE1	18:S:86:PRO:HB3	1.95	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:35:TRP:NE1	4:D:37:PRO:HB3	2.28	0.49
4:D:76:LEU:H	4:D:76:LEU:HD12	1.77	0.49
4:D:233:GLN:OE1	4:D:234:PRO:HD3	2.13	0.49
7:G:98:MET:HE3	7:G:105:GLY:O	2.12	0.49
7:G:116:HIS:HE1	72:a:95:HIS:NE2	2.10	0.49
9:I:49:ILE:H	9:I:58:LEU:HD22	1.78	0.49
16:Q:69:GLU:HB2	80:Q:201:OHX:N4	2.27	0.49
20:U:38:LYS:HB3	20:U:45:MET:C	2.38	0.49
23:X:83:ILE:HD12	23:X:122:SER:HB2	1.95	0.49
23:X:128:PHE:CE2	23:X:130:TYR:HE1	2.31	0.49
25:Z:87:PRO:HD2	25:Z:90:ARG:NH1	2.28	0.49
27:DA:3:LYS:HD3	27:DA:8:VAL:HG13	1.95	0.49
31:CD:116:VAL:HG22	31:CD:126:LEU:HB2	1.95	0.49
32:AE:15:ASN:O	32:AE:19:ARG:NH1	2.46	0.49
35:1:501:A:H2'	35:1:502:U:C6	2.47	0.49
35:1:659:G:H2'	35:1:1432:C:H42	1.78	0.49
35:1:966:U:H2'	35:1:967:A:C8	2.48	0.49
35:1:1210:U:H2'	35:1:1211:U:H6	1.78	0.49
35:1:1268:G:N2	35:1:1269:U:O4	2.46	0.49
35:1:1295:G:OP1	53:0:84:ARG:HG3	2.12	0.49
35:1:1555:U:H5	35:1:1559:A:H61	1.58	0.49
35:1:1632:A:H2'	35:1:1633:C:C6	2.48	0.49
35:1:3045:G:O3'	33:k:275:ARG:NH1	2.32	0.49
33:k:37:ARG:HH21	33:k:188:ILE:HD11	1.77	0.49
33:k:169:THR:CG2	33:k:171:LEU:HG	2.43	0.49
39:m:205:SER:HA	39:m:208:MET:HG3	1.95	0.49
41:o:168:ILE:H	41:o:168:ILE:HD12	1.77	0.49
43:q:47:LYS:HE3	43:q:50:ASN:HA	1.93	0.49
44:r:99:ILE:CG2	44:r:123:HIS:HB2	2.43	0.49
44:r:182:LEU:HB3	44:r:186:GLU:OE1	2.13	0.49
45:s:49:LYS:HA	45:s:64:LYS:H	1.76	0.49
60:AH:104:VAL:HA	60:AH:107:GLU:HB2	1.95	0.49
63:AK:72:ARG:HH11	63:AK:72:ARG:HG2	1.78	0.49
68:AP:45:ARG:HH11	68:AP:45:ARG:CG	2.23	0.49
35:AR:287:G:H5'	48:CP:179:LYS:O	2.13	0.49
35:AR:1064:A:N6	35:AR:1096:U:H3	2.10	0.49
35:AR:2413:A:H2'	35:AR:2414:G:H8	1.78	0.49
35:AR:3107:U:OP2	66:DO:112:LYS:NZ	2.45	0.49
35:AR:3273:A:OP2	40:CH:77:ARG:NH2	2.46	0.49
38:CF:304:GLN:N	38:CF:304:GLN:OE1	2.46	0.49
39:CG:283:ALA:O	39:CG:286:VAL:HG22	2.12	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:CI:232:ARG:O	41:CI:233:GLU:HG2	2.13	0.49
42:CJ:143:ILE:HG23	42:CJ:175:VAL:HG21	1.94	0.49
43:CK:163:GLN:O	43:CK:166:ARG:NE	2.40	0.49
45:CM:116:TYR:HE1	45:CM:118:PRO:HA	1.78	0.49
62:DK:58:ILE:HD12	62:DK:59:ASP:N	2.28	0.49
70:sM:79:SER:O	70:sM:79:SER:OG	2.26	0.49
72:a:62:VAL:HG12	72:a:77:ARG:HA	1.95	0.49
79:h:239:GLU:HG2	79:h:241:PHE:HE1	1.78	0.49
1:sR:79:C:P	8:s6:159:ARG:HH22	2.35	0.49
1:sR:961:U:OP1	14:c3:71:ILE:HD11	2.13	0.49
1:sR:1353:U:H2'	1:sR:1354:G:C8	2.44	0.49
79:Rb:224:ASN:ND2	79:Rb:227:ALA:HB3	2.23	0.49
2:s0:61:ALA:HA	2:s0:64:ILE:HG22	1.94	0.49
6:s4:160:VAL:HG12	6:s4:172:PHE:HB2	1.94	0.49
7:s5:176:THR:O	7:s5:180:ARG:HB2	2.12	0.49
9:s7:73:VAL:CG2	9:s7:76:LYS:CG	2.90	0.49
9:s7:184:GLU:C	9:s7:185:ILE:HD12	2.38	0.49
11:s9:53:ARG:O	11:s9:57:ARG:HG3	2.12	0.49
11:s9:125:ALA:HA	11:s9:128:LEU:CD1	2.42	0.49
19:c8:94:ASP:OD2	19:c8:98:TYR:OH	2.29	0.49
21:d0:51:VAL:HG21	21:d0:93:LEU:HG	1.94	0.49
75:d8:56:LEU:HD13	75:d8:58:GLU:N	2.21	0.49
1:A:164:A:N3	8:H:13:GLN:NE2	2.61	0.49
1:A:246:G:N2	13:M:38:ALA:O	2.46	0.49
2:B:83:GLN:OE1	2:B:99:ALA:HB1	2.13	0.49
4:D:112:GLY:HA3	4:D:132:ALA:O	2.12	0.49
4:D:149:GLY:N	22:W:4:ASP:OD1	2.46	0.49
6:F:102:VAL:HG13	6:F:182:TYR:HE2	1.78	0.49
6:F:125:LYS:O	6:F:141:THR:HB	2.12	0.49
10:J:158:SER:O	10:J:161:SER:OG	2.30	0.49
12:L:35:ILE:HG22	12:L:36:ASP:H	1.78	0.49
17:R:53:LEU:HD12	17:R:53:LEU:H	1.78	0.49
19:T:11:PHE:CD2	72:a:41:ILE:HD13	2.47	0.49
19:T:120:ARG:NE	70:i:58:GLU:OE1	2.46	0.49
25:Z:28:LEU:HG	25:Z:30:PRO:HD3	1.95	0.49
25:Z:38:ASP:OD1	25:Z:52:LYS:NZ	2.46	0.49
25:Z:127:LYS:NZ	25:Z:131:ARG:HH11	2.11	0.49
26:AA:18:TYR:O	26:AA:21:LYS:HG2	2.13	0.49
28:DC:33:GLY:O	46:CN:2:ALA:N	2.45	0.49
28:DC:147:LEU:HB2	62:DK:7:ILE:HG22	1.95	0.49
31:CD:188:LYS:HD2	31:CD:189:TYR:CE1	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:534:U:OP1	53:0:132:THR:HG21	2.12	0.49
35:1:871:U:H2'	35:1:872:U:C6	2.48	0.49
35:1:1506:A:H1'	35:1:1848:G:O6	2.13	0.49
35:1:1832:C:OP1	58:8:120:LYS:HE3	2.13	0.49
80:1:4132:OHX:N6	42:p:54:GLU:CD	2.70	0.49
31:j:98:VAL:HA	31:j:166:ILE:HG22	1.94	0.49
39:m:259:LYS:O	39:m:265:TYR:OH	2.31	0.49
41:o:86:VAL:O	41:o:114:GLY:HA2	2.13	0.49
44:r:193:ASP:HB3	44:r:196:PHE:O	2.12	0.49
45:s:16:LYS:HD3	45:s:70:THR:CG2	2.42	0.49
48:v:28:TRP:O	48:v:32:GLN:HG2	2.13	0.49
51:y:65:SER:HA	51:y:93:ILE:HD13	1.95	0.49
60:AH:106:LYS:O	60:AH:109:THR:HG22	2.13	0.49
35:AR:136:G:O5'	61:DJ:95:PHE:HD2	1.96	0.49
35:AR:1145:G:H5'	34:DG:46:PHE:CE1	2.48	0.49
35:AR:1667:A:H2'	35:AR:1668:G:H8	1.75	0.49
35:AR:2599:U:H5"	48:CP:70:ASN:HD21	1.77	0.49
35:AR:2824:G:O6	80:AR:3454:OHX:N2	2.45	0.49
35:AR:2828:G:P	44:CL:7:ARG:HH12	2.35	0.49
35:AR:3257:C:OP1	80:AR:4226:OHX:N4	2.46	0.49
37:AT:7:U:H2'	37:AT:8:C:C6	2.48	0.49
37:AT:57:C:H4'	37:AT:63:G:N7	2.28	0.49
37:AT:88:A:H2'	37:AT:89:A:O4'	2.13	0.49
38:CF:132:ALA:HB2	38:CF:148:ILE:HG21	1.95	0.49
45:CM:132:ASN:HD22	45:CM:136:ALA:HB2	1.77	0.49
48:CP:9:GLU:CG	62:DK:44:VAL:HG21	2.42	0.49
49:CQ:65:ASN:OD1	49:CQ:67:THR:HB	2.13	0.49
65:DN:9:ILE:O	65:DN:13:MET:HG3	2.13	0.49
71:p0:25:LEU:HD23	71:p0:88:PHE:CD2	2.48	0.49
79:h:68:VAL:HA	79:h:84:SER:HA	1.94	0.49
1:sR:890:C:OP2	80:sR:2006:OHX:N1	2.45	0.49
1:sR:906:A:H2'	1:sR:907:A:H8	1.77	0.49
79:Rb:139:GLN:H	79:Rb:139:GLN:CD	2.21	0.49
3:s1:32:ILE:HD11	3:s1:46:THR:OG1	2.13	0.49
6:s4:158:ASP:OD2	6:s4:174:LYS:HE2	2.13	0.49
6:s4:192:ILE:HG13	6:s4:243:GLY:HA3	1.94	0.49
7:s5:160:VAL:HG23	75:d8:45:LYS:HB2	1.95	0.49
8:s6:98:ARG:CZ	8:s6:106:LEU:HD21	2.43	0.49
9:s7:89:HIS:NE2	9:s7:164:TYR:CD1	2.81	0.49
18:c7:90:ALA:HB3	18:c7:95:ARG:N	2.27	0.49
19:c8:3:LEU:HD21	19:c8:56:LYS:HD3	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c9:97:SER:HB3	20:c9:100:ILE:HD13	1.95	0.49
21:d0:68:ARG:NH2	21:d0:77:LYS:HA	2.27	0.49
1:A:241:U:H5'	1:A:242:U:OP2	2.13	0.48
1:A:582:U:H3'	1:A:583:C:H5	1.77	0.48
1:A:1546:G:H21	19:T:87:ASN:HB2	1.77	0.48
1:A:1608:U:OP2	17:R:14:LYS:HD3	2.12	0.48
2:B:153:SER:O	2:B:156:VAL:HG22	2.13	0.48
3:C:125:VAL:HG22	3:C:137:ILE:CG1	2.43	0.48
3:C:127:VAL:HG23	3:C:176:VAL:HG11	1.95	0.48
4:D:68:ILE:HG22	4:D:72:LEU:CD1	2.43	0.48
5:E:51:ARG:HB3	5:E:91:VAL:CG1	2.43	0.48
6:F:125:LYS:C	6:F:141:THR:HB	2.38	0.48
8:H:21:GLU:HA	8:H:24:ILE:CG1	2.41	0.48
8:H:166:GLU:H	8:H:167:LYS:HZ1	1.60	0.48
14:O:148:ALA:O	80:O:201:OHX:N2	2.46	0.48
15:P:16:VAL:O	15:P:30:VAL:HA	2.14	0.48
19:T:31:ALA:O	19:T:34:THR:HG22	2.13	0.48
19:T:120:ARG:NH2	70:i:58:GLU:OE1	2.45	0.48
23:X:30:SER:OG	23:X:59:GLY:HA3	2.12	0.48
25:Z:128:LYS:HA	25:Z:131:ARG:HB2	1.95	0.48
33:CE:236:LYS:NZ	35:AR:2338:C:OP1	2.35	0.48
34:AF:77:ALA:HB2	40:n:3:ALA:HB2	1.95	0.48
35:1:289:A:C2	48:v:93:LYS:HD3	2.47	0.48
35:1:654:C:H2'	35:1:655:C:C6	2.48	0.48
35:1:1565:G:H21	35:1:1575:A:N6	2.11	0.48
35:1:1643:A:O2'	35:1:1644:C:O4'	2.26	0.48
35:1:1658:G:H2'	35:1:1659:U:C6	2.48	0.48
35:1:2352:A:H2'	35:1:2353:G:H8	1.76	0.48
35:1:3075:G:O6	80:1:4165:OHX:N4	2.46	0.48
35:1:3106:A:H61	35:1:3128:G:H1'	1.78	0.48
35:1:3152:U:O2	80:1:4179:OHX:N3	2.46	0.48
31:j:52:SER:HB3	31:j:191:LEU:HD23	1.95	0.48
33:k:67:PHE:HD2	33:k:72:VAL:HG12	1.77	0.48
33:k:103:THR:HG22	33:k:104:THR:H	1.78	0.48
64:AL:26:LYS:NZ	64:AL:28:ASN:HD22	2.11	0.48
70:i:24:GLU:O	70:i:25:ILE:HD13	2.13	0.48
35:AR:770:G:OP1	46:CN:171:ARG:HD3	2.13	0.48
35:AR:1214:U:H2'	35:AR:1215:U:H6	1.76	0.48
35:AR:2768:U:H2'	35:AR:2769:A:C8	2.47	0.48
35:AR:2790:A:O2'	80:AR:3571:OHX:N4	2.45	0.48
35:AR:2854:U:OP2	44:CL:3:ARG:NH1	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:3000:A:H2'	35:AR:3001:C:C6	2.48	0.48
39:CG:277:LEU:HD22	39:CG:281:GLU:HG3	1.94	0.48
41:CI:184:LEU:O	41:CI:188:ILE:HG12	2.12	0.48
42:CJ:226:TYR:HA	42:CJ:229:VAL:HG12	1.94	0.48
43:CK:94:TYR:CE2	43:CK:98:PRO:HA	2.48	0.48
48:CP:35:VAL:O	48:CP:64:VAL:HA	2.13	0.48
48:CP:122:ASN:OD1	48:CP:123:GLN:N	2.43	0.48
53:CU:12:ARG:NH1	53:CU:15:PRO:HG3	2.28	0.48
55:CW:38:ILE:HG13	55:CW:39:ASP:N	2.28	0.48
55:CW:89:LEU:HB3	55:CW:93:ILE:HD13	1.94	0.48
34:DG:19:ARG:HB2	34:DG:31:ASN:O	2.13	0.48
61:DJ:13:SER:H	61:DJ:16:GLN:NE2	2.11	0.48
79:h:83:ALA:HB1	79:h:110:VAL:HG21	1.94	0.48
79:h:216:LYS:CA	79:h:239:GLU:HG3	2.42	0.48
79:h:281:TYR:CE1	79:h:287:PRO:HD3	2.48	0.48
1:sR:625:C:H2'	1:sR:626:U:C6	2.47	0.48
1:sR:838:G:O6	80:sR:1957:OHX:N1	2.46	0.48
1:sR:1786:G:OP2	15:c4:133:ARG:NH1	2.46	0.48
79:Rb:228:LYS:C	79:Rb:229:LYS:HG2	2.38	0.48
2:s0:85:ALA:HA	2:s0:202:TYR:CD2	2.48	0.48
5:s3:76:ARG:O	5:s3:76:ARG:HD2	2.13	0.48
5:s3:156:PHE:O	5:s3:157:LEU:HD23	2.12	0.48
7:s5:68:ILE:O	7:s5:68:ILE:HG13	2.13	0.48
8:s6:88:ARG:HG2	8:s6:91:GLU:HB2	1.95	0.48
10:s8:67:TRP:HA	10:s8:183:ILE:CG2	2.43	0.48
12:c0:50:THR:OG1	12:c0:55:VAL:HG13	2.12	0.48
21:d0:109:GLU:O	21:d0:112:VAL:HG22	2.12	0.48
23:d2:106:THR:HG22	23:d2:122:SER:C	2.38	0.48
73:d6:10:ARG:HD3	73:d6:34:LYS:HG3	1.94	0.48
1:A:810:G:C5	9:I:111:LYS:HE2	2.46	0.48
1:A:872:G:H5'	74:c:66:PRO:HB2	1.95	0.48
1:A:932:U:H4'	1:A:933:A:O4'	2.12	0.48
1:A:990:C:O3'	15:P:129:LYS:HA	2.13	0.48
1:A:1065:A:H4'	3:C:205:PHE:CD1	2.48	0.48
1:A:1065:A:OP1	80:A:1906:OHX:N3	2.45	0.48
1:A:1207:C:N3	1:A:1456:C:H5	2.10	0.48
1:A:1380:U:H2'	1:A:1381:U:O4'	2.13	0.48
1:A:1533:C:P	72:a:77:ARG:HH21	2.33	0.48
1:A:1615:C:C2'	7:G:81:ARG:HE	2.24	0.48
3:C:32:ILE:HA	3:C:96:LEU:O	2.13	0.48
4:D:98:PHE:O	4:D:117:THR:HA	2.12	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:106:ASP:OD2	4:D:110:HIS:ND1	2.45	0.48
8:H:98:ARG:HD2	8:H:106:LEU:HD21	1.95	0.48
8:H:147:LEU:HD11	8:H:156:PHE:CD2	2.48	0.48
18:S:24:LEU:HD22	18:S:31:ASN:HD22	1.78	0.48
19:T:100:THR:CG2	19:T:108:LYS:HG3	2.42	0.48
21:V:27:THR:CG2	21:V:88:LYS:HB2	2.28	0.48
24:Y:31:LYS:HG2	24:Y:36:THR:OG1	2.13	0.48
24:Y:86:PHE:CD1	24:Y:87:VAL:N	2.81	0.48
26:DB:59:ALA:O	26:DB:62:VAL:HG13	2.13	0.48
31:CD:131:GLY:HA2	31:CD:169:ILE:O	2.14	0.48
33:CE:128:LYS:HD2	35:AR:3294:A:C5'	2.44	0.48
33:CE:286:GLY:HA3	33:CE:321:PHE:CZ	2.48	0.48
35:1:12:A:H2'	35:1:13:A:C8	2.48	0.48
35:1:979:U:H1'	35:1:980:A:N7	2.28	0.48
35:1:1093:A:N3	35:1:1096:U:N3	2.60	0.48
35:1:1779:C:C4	52:z:89:LEU:HD13	2.49	0.48
35:1:2163:C:O2'	31:j:11:GLY:HA3	2.14	0.48
35:1:2254:U:H2'	35:1:2261:G:H22	1.77	0.48
35:1:2405:C:O2	35:1:2819:A:N1	2.46	0.48
35:1:2947:G:N3	33:k:250:ALA:HB1	2.28	0.48
36:3:121:U:O2	39:m:265:TYR:HD1	1.96	0.48
37:4:8:C:H2'	37:4:9:A:C8	2.46	0.48
38:l:192:GLY:HA2	38:l:195:ARG:HB2	1.94	0.48
69:AQ:29:LEU:O	69:AQ:33:GLN:HG2	2.13	0.48
35:AR:946:U:H2'	35:AR:947:G:H8	1.78	0.48
35:AR:1078:U:H4'	39:CG:46:THR:HG21	1.95	0.48
35:AR:1616:U:H2'	35:AR:1617:G:H8	1.78	0.48
35:AR:1647:A:C2	35:AR:1809:A:H1'	2.48	0.48
35:AR:2678:A:O2'	70:sM:41:SER:O	2.23	0.48
43:CK:87:LYS:HD2	43:CK:145:VAL:HG11	1.94	0.48
43:CK:129:ARG:NH1	43:CK:160:ASP:OD2	2.41	0.48
50:CR:111:LYS:O	50:CR:152:GLU:HA	2.12	0.48
58:CZ:72:ALA:O	58:CZ:76:VAL:HG23	2.13	0.48
60:DI:14:ASN:OD1	60:DI:19:LYS:NZ	2.46	0.48
60:DI:102:LYS:HA	60:DI:105:VAL:HG13	1.94	0.48
1:sR:652:G:OP2	80:sR:2015:OHX:N4	2.46	0.48
1:sR:768:C:H1'	11:s9:143:ILE:HG21	1.95	0.48
1:sR:929:A:H4'	15:c4:124:ASP:OD2	2.13	0.48
1:sR:1087:A:H2'	1:sR:1088:A:C8	2.48	0.48
1:sR:1213:G:H1	1:sR:1450:U:H3	1.60	0.48
1:sR:1494:C:H2'	1:sR:1495:C:C6	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Rb:9:LEU:HD11	79:Rb:312:VAL:HG23	1.95	0.48
79:Rb:87:LYS:HG2	79:Rb:108:SER:O	2.12	0.48
2:s0:41:ARG:HB2	2:s0:42:PRO:CD	2.43	0.48
5:s3:76:ARG:HG3	5:s3:77:PHE:HD1	1.77	0.48
18:c7:117:LEU:O	18:c7:118:PRO:C	2.57	0.48
21:d0:36:ASN:OD1	21:d0:37:VAL:HG13	2.13	0.48
77:e0:63:GLN:HA	77:e0:63:GLN:OE1	2.12	0.48
1:A:142:G:H1	1:A:173:A:H2	1.61	0.48
1:A:221:A:H5"	1:A:833:U:H1'	1.94	0.48
1:A:291:G:H2'	1:A:292:U:C6	2.48	0.48
1:A:333:A:OP1	10:J:31:ARG:NH2	2.47	0.48
1:A:488:G:OP1	1:A:488:G:H4'	2.12	0.48
1:A:1274:C:C5	70:i:95:SER:HA	2.49	0.48
1:A:1575:G:H2'	1:A:1576:A:C8	2.49	0.48
4:D:174:ARG:NH1	4:D:175:GLY:H	2.10	0.48
5:E:10:LYS:HE2	21:V:113:ASP:OD2	2.14	0.48
5:E:26:THR:N	5:E:34:TYR:HE2	2.12	0.48
8:H:61:PHE:CE1	8:H:96:SER:HB2	2.48	0.48
9:I:57:ALA:HB1	9:I:89:HIS:HB2	1.95	0.48
9:I:155:ASP:OD1	9:I:157:LYS:HG3	2.13	0.48
15:P:128:LYS:HE3	15:P:128:LYS:HB3	1.61	0.48
21:V:103:ILE:HD12	21:V:104:THR:HG23	1.96	0.48
27:DA:79:ALA:HB1	27:DA:98:ASN:HB3	1.95	0.48
26:DB:26:VAL:O	26:DB:27:LYS:HG2	2.13	0.48
30:AD:41:LEU:HB3	30:AD:92:ILE:HD11	1.95	0.48
33:CE:75:ALA:HB2	35:AR:3049:A:C2	2.48	0.48
30:DE:56:LEU:CD2	30:DE:89:VAL:HG21	2.43	0.48
34:AF:97:ALA:HB3	34:AF:100:ILE:HG12	1.94	0.48
35:1:149:U:H4'	48:v:56:LYS:HB3	1.94	0.48
35:1:417:A:H2'	35:1:418:A:H8	1.77	0.48
35:1:1210:U:H2'	35:1:1211:U:C6	2.49	0.48
35:1:1334:U:H2'	35:1:1335:C:C6	2.48	0.48
35:1:1682:U:H4'	35:1:1684:U:O4	2.12	0.48
35:1:2407:C:H2'	35:1:2408:U:H6	1.78	0.48
35:1:2662:G:H2'	35:1:2663:G:H8	1.77	0.48
35:1:2945:G:O2'	35:1:2948:C:OP2	2.19	0.48
39:m:67:SER:OG	39:m:72:ASP:OD1	2.25	0.48
43:q:90:MET:HE2	43:q:146:LEU:HD11	1.94	0.48
46:t:132:ALA:C	46:t:134:GLU:H	2.21	0.48
48:v:75:VAL:O	48:v:78:GLY:N	2.44	0.48
48:v:120:TRP:HE1	48:v:123:GLN:HB3	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
64:AL:30:LYS:NZ	64:AL:40:GLN:CD	2.72	0.48
35:AR:120:G:C5	42:CJ:128:LYS:HD3	2.48	0.48
35:AR:122:A:N7	35:AR:146:U:N3	2.62	0.48
35:AR:380:U:H2'	35:AR:381:U:C6	2.48	0.48
35:AR:1019:G:H2'	35:AR:1020:G:H5"	1.95	0.48
35:AR:1537:A:H2'	35:AR:1538:G:O4'	2.13	0.48
35:AR:1580:A:H5'	35:AR:2522:G:N7	2.29	0.48
35:AR:1583:A:H3'	35:AR:1584:U:H6	1.77	0.48
35:AR:1720:U:OP2	52:CT:110:ARG:NH2	2.46	0.48
35:AR:3018:C:C4	35:AR:3019:U:C4	3.02	0.48
35:AR:3251:U:H2'	35:AR:3252:G:C8	2.48	0.48
35:AR:3276:G:H5'	40:CH:48:ARG:NH1	2.29	0.48
38:CF:143:GLU:HG2	38:CF:143:GLU:O	2.12	0.48
38:CF:184:SER:CB	38:CF:202:ARG:HG2	2.43	0.48
46:CN:176:GLU:HG2	62:DK:11:LEU:CD1	2.44	0.48
49:CQ:189:ASP:O	49:CQ:193:GLN:HG3	2.13	0.48
52:CT:84:THR:O	52:CT:88:ARG:HG3	2.12	0.48
56:CX:109:MET:CE	56:CX:129:VAL:HA	2.42	0.48
57:CY:52:THR:HG23	57:CY:55:PHE:H	1.78	0.48
32:DF:10:ARG:NH1	32:DF:12:TYR:OH	2.45	0.48
60:DI:21:LYS:HB2	60:DI:35:VAL:CG1	2.43	0.48
72:a:46:LYS:HE3	72:a:49:ARG:NH1	2.27	0.48
79:h:149:ASP:CB	79:h:175:ASP:HB3	2.38	0.48
79:h:178:VAL:HG23	79:h:202:LEU:HD11	1.95	0.48
79:h:216:LYS:HG2	79:h:216:LYS:O	2.12	0.48
1:sR:694:U:H3'	1:sR:695:U:O2	2.12	0.48
1:sR:1267:G:H2'	1:sR:1268:G:C8	2.48	0.48
1:sR:1489:U:H5'	1:sR:1494:C:H1'	1.94	0.48
2:s0:73:VAL:HG12	2:s0:73:VAL:O	2.13	0.48
4:s2:79:GLU:CD	4:s2:186:LYS:HD3	2.38	0.48
6:s4:222:LEU:O	6:s4:222:LEU:HD23	2.12	0.48
8:s6:14:LYS:HD3	8:s6:16:PHE:CZ	2.49	0.48
11:s9:158:PHE:CE2	11:s9:164:PHE:HB3	2.49	0.48
13:c1:124:THR:HB	13:c1:141:LYS:HB3	1.95	0.48
21:d0:102:ARG:HA	21:d0:104:THR:H	1.78	0.48
72:d5:89:ILE:O	72:d5:89:ILE:HD12	2.13	0.48
1:A:329:G:OP1	10:J:98:LYS:HE2	2.14	0.48
1:A:576:G:H4'	1:A:580:A:C5	2.48	0.48
1:A:1032:G:H2'	1:A:1033:C:H6	1.78	0.48
1:A:1430:U:H1'	21:V:72:ASN:HD22	1.79	0.48
1:A:1552:U:H2'	1:A:1553:G:O4'	2.14	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:106:ASP:OD1	4:D:107:SER:N	2.46	0.48
5:E:175:VAL:HG13	5:E:182:LEU:HB2	1.96	0.48
6:F:181:VAL:HG22	6:F:194:THR:H	1.78	0.48
7:G:131:GLN:O	7:G:134:VAL:HG22	2.13	0.48
8:H:142:ARG:HA	8:H:147:LEU:HB2	1.94	0.48
8:H:204:ALA:HA	8:H:207:GLU:OE1	2.13	0.48
9:I:168:SER:O	9:I:172:VAL:HG13	2.13	0.48
11:K:6:ARG:HD3	11:K:6:ARG:N	2.28	0.48
14:O:3:ARG:HG2	14:O:8:GLY:O	2.14	0.48
17:R:22:VAL:HA	17:R:64:ASP:O	2.14	0.48
21:V:35:GLU:HA	21:V:38:SER:CB	2.41	0.48
22:W:36:VAL:O	22:W:50:TYR:HB3	2.13	0.48
28:DC:71:PRO:HB2	28:DC:109:TYR:HA	1.94	0.48
31:CD:174:ARG:NH1	35:AR:1793:C:O2	2.46	0.48
33:CE:18:PRO:HG2	33:CE:20:LYS:HD2	1.96	0.48
35:1:150:A:C4	35:1:151:A:C8	3.01	0.48
35:1:393:U:OP2	80:1:3440:OHX:N2	2.46	0.48
35:1:1195:A:H1'	35:1:1319:G:H4'	1.96	0.48
35:1:2373:A:N7	35:1:2867:C:H1'	2.28	0.48
35:1:2416:U:H2'	35:1:2417:U:C6	2.48	0.48
35:1:2537:U:H4'	35:1:2538:U:OP1	2.12	0.48
35:1:2913:C:H2'	35:1:2914:G:C8	2.48	0.48
37:4:38:U:C4	61:AI:89:ARG:HD3	2.48	0.48
40:n:93:VAL:HG22	40:n:96:VAL:CG1	2.43	0.48
41:o:163:LEU:HD13	41:o:169:ILE:HD11	1.95	0.48
42:p:52:TRP:HH2	58:8:27:ARG:NH1	2.12	0.48
43:q:23:ARG:HG3	43:q:23:ARG:NH1	2.28	0.48
43:q:162:GLN:HG2	43:q:179:ILE:O	2.13	0.48
50:x:168:LEU:HD11	50:x:173:ARG:HG3	1.94	0.48
53:0:27:MET:HG2	54:2:151:LEU:O	2.14	0.48
63:AK:17:THR:HG22	63:AK:18:LEU:N	2.28	0.48
64:AL:27:ILE:HD12	64:AL:27:ILE:O	2.14	0.48
35:AR:72:C:O4'	46:CN:63:VAL:HG12	2.12	0.48
35:AR:683:U:OP1	48:CP:204:LYS:NZ	2.36	0.48
35:AR:900:G:H2'	35:AR:901:G:C8	2.48	0.48
35:AR:931:C:OP2	35:AR:932:U:O2'	2.24	0.48
35:AR:1211:U:H2'	35:AR:1212:A:C8	2.48	0.48
35:AR:1728:G:H5"	35:AR:1730:G:O4'	2.12	0.48
35:AR:2426:U:H2'	35:AR:2427:U:H6	1.77	0.48
35:AR:3277:U:O2'	35:AR:3278:C:H5'	2.14	0.48
43:CK:4:ILE:HD11	53:CU:143:PHE:CE2	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:CN:126:PHE:N	46:CN:126:PHE:CD1	2.82	0.48
61:DJ:28:LEU:O	61:DJ:32:LYS:HG3	2.13	0.48
68:DQ:10:THR:HA	68:DQ:20:HIS:ND1	2.28	0.48
72:a:50:ILE:HD12	72:a:51:LEU:H	1.77	0.48
78:g:110:ALA:HB3	78:g:113:LYS:HG2	1.95	0.48
79:h:147:HIS:NE2	79:h:173:GLY:HA3	2.29	0.48
1:sR:986:G:OP2	80:sR:1975:OHX:N5	2.45	0.48
1:sR:1079:U:H2'	1:sR:1080:U:O4'	2.14	0.48
1:sR:1502:G:N7	20:c9:102:ARG:NH2	2.56	0.48
79:Rb:19:TRP:O	79:Rb:37:SER:HA	2.13	0.48
2:s0:112:THR:HG22	2:s0:114:SER:H	1.77	0.48
9:s7:158:ASP:O	9:s7:161:GLN:HG3	2.13	0.48
18:c7:53:TYR:O	18:c7:57:LEU:HG	2.13	0.48
20:c9:6:VAL:O	20:c9:9:VAL:HG22	2.12	0.48
78:e1:104:SER:O	78:e1:107:LYS:NZ	2.46	0.48
1:A:767:U:H5	11:K:143:ILE:HD11	1.78	0.48
1:A:1229:G:OP2	78:g:102:VAL:HG22	2.14	0.48
1:A:1773:C:OP1	67:AO:3:ALA:HB3	2.14	0.48
3:C:154:SER:O	3:C:154:SER:OG	2.27	0.48
4:D:82:ASN:O	4:D:101:VAL:HG12	2.13	0.48
6:F:106:LYS:HG3	6:F:108:ARG:NH2	2.29	0.48
6:F:154:ILE:HD11	6:F:160:VAL:HG11	1.95	0.48
7:G:34:GLN:O	7:G:37:GLN:NE2	2.46	0.48
8:H:23:ARG:HD3	8:H:41:VAL:O	2.13	0.48
10:J:116:HIS:O	10:J:117:TYR:C	2.57	0.48
12:L:35:ILE:HG22	12:L:36:ASP:N	2.28	0.48
14:O:4:MET:HG3	14:O:5:HIS:N	2.28	0.48
14:O:33:VAL:HA	14:O:36:GLN:HE22	1.79	0.48
15:P:126:THR:HG22	15:P:126:THR:O	2.13	0.48
21:V:21:LYS:HE3	21:V:21:LYS:O	2.14	0.48
26:AA:95:VAL:HG21	26:AA:110:ALA:HA	1.95	0.48
26:AA:111:LYS:HA	26:AA:114:VAL:HG22	1.95	0.48
33:CE:34:LYS:HD2	33:CE:35:ASP:H	1.76	0.48
35:1:94:G:H2'	35:1:95:A:C8	2.48	0.48
35:1:1028:U:H5"	35:1:1029:G:H5'	1.95	0.48
35:1:1715:A:H4'	35:1:1716:U:OP1	2.13	0.48
35:1:2162:U:OP1	31:j:234:LYS:NZ	2.30	0.48
38:l:140:HIS:HA	38:l:177:ASP:OD1	2.13	0.48
41:o:233:GLU:OE2	53:0:38:LYS:NZ	2.45	0.48
47:u:60:LEU:HD13	53:0:152:LEU:HD11	1.94	0.48
47:u:116:GLU:O	47:u:120:VAL:HG13	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:0:139:TYR:CD1	53:0:140:VAL:HG23	2.49	0.48
61:AI:109:ILE:HD12	61:AI:110:ALA:N	2.29	0.48
63:AK:39:TYR:CD1	63:AK:40:PRO:HA	2.48	0.48
69:AQ:49:ARG:CZ	69:AQ:52:ALA:HB2	2.43	0.48
70:i:112:ASP:OD1	70:i:115:LYS:HG2	2.14	0.48
35:AR:26:A:C4	35:AR:330:G:C8	3.02	0.48
35:AR:213:A:H61	35:AR:227:G:C2'	2.27	0.48
35:AR:756:U:H2'	35:AR:757:C:H6	1.78	0.48
35:AR:1162:U:H4'	34:DG:57:TYR:CE1	2.49	0.48
35:AR:1365:G:OP2	80:AR:3532:OHX:N3	2.47	0.48
35:AR:1600:U:OP2	80:AR:3579:OHX:N6	2.47	0.48
35:AR:2298:U:OP1	80:AR:3447:OHX:N1	2.46	0.48
35:AR:2439:A:H2'	35:AR:2440:G:H8	1.78	0.48
35:AR:2815:G:N2	35:AR:2818:U:O2	2.47	0.48
35:AR:2880:U:OP1	56:CX:47:ASN:ND2	2.44	0.48
35:AR:3095:U:H2'	35:AR:3096:C:H6	1.76	0.48
35:AR:3199:G:O6	80:AR:3640:OHX:N4	2.46	0.48
37:AT:4:C:H2'	37:AT:5:U:C6	2.48	0.48
37:AT:63:G:N2	37:AT:97:A:N1	2.61	0.48
38:CF:208:VAL:HA	38:CF:228:ALA:O	2.14	0.48
38:CF:209:TYR:C	38:CF:254:ALA:HB2	2.38	0.48
38:CF:334:PHE:CD2	38:CF:339:LEU:HD12	2.48	0.48
42:CJ:30:THR:O	42:CJ:30:THR:OG1	2.30	0.48
42:CJ:189:LEU:H	42:CJ:189:LEU:CD2	2.26	0.48
43:CK:23:ARG:HB2	43:CK:39:LYS:HG2	1.96	0.48
45:CM:49:LYS:HB2	45:CM:62:ASN:HA	1.95	0.48
62:DK:5:THR:HG23	62:DK:12:ASN:HB2	1.96	0.48
64:DM:31:LEU:HD13	64:DM:33:LYS:HA	1.95	0.48
72:a:41:ILE:HA	72:a:75:LEU:HD12	1.95	0.48
73:b:10:ARG:NH1	73:b:36:ILE:HG22	2.29	0.48
74:c:36:LYS:NZ	74:c:40:CYS:O	2.41	0.48
75:d:54:LEU:HD13	75:d:55:VAL:N	2.28	0.48
79:h:70:ASP:OD2	79:h:112:SER:HA	2.12	0.48
79:h:203:THR:HG22	79:h:212:ALA:HB3	1.94	0.48
79:h:216:LYS:CB	79:h:239:GLU:HG3	2.44	0.48
1:sR:38:C:H2'	1:sR:39:A:H5'	1.95	0.48
1:sR:177:U:HO2'	1:sR:178:U:H6	1.60	0.48
1:sR:574:G:O6	24:d3:65:ASN:ND2	2.46	0.48
1:sR:1092:A:O2'	1:sR:1093:A:H3'	2.12	0.48
1:sR:1258:U:H5	1:sR:1259:U:C2	2.31	0.48
1:sR:1405:G:H2'	1:sR:1406:A:H8	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1481:C:H4'	1:sR:1482:C:OP1	2.12	0.48
1:sR:1787:C:H2'	1:sR:1788:G:C8	2.49	0.48
79:Rb:16:HIS:CE1	79:Rb:37:SER:HB3	2.48	0.48
79:Rb:19:TRP:O	79:Rb:38:ARG:N	2.46	0.48
79:Rb:300:THR:HA	79:Rb:314:GLN:CB	2.39	0.48
3:s1:157:GLN:HB2	3:s1:160:HIS:CE1	2.49	0.48
4:s2:225:LEU:HD22	23:d2:68:ARG:HB2	1.95	0.48
5:s3:170:THR:CG2	5:s3:187:LYS:HG3	2.43	0.48
11:s9:123:HIS:ND1	77:e0:37:ARG:HD2	2.28	0.48
12:c0:70:GLU:O	12:c0:73:VAL:HG12	2.13	0.48
16:c5:78:THR:OG1	16:c5:80:MET:HG3	2.14	0.48
19:c8:12:GLN:OE1	19:c8:15:LEU:HG	2.14	0.48
20:c9:63:ARG:HD3	20:c9:63:ARG:C	2.38	0.48
74:d7:44:THR:HG22	74:d7:57:GLU:HG2	1.96	0.48
78:e1:132:LEU:CA	78:e1:141:CYS:HB2	2.31	0.48
1:A:190:C:N4	1:A:196:G:O6	2.47	0.48
1:A:305:C:H2'	1:A:306:U:C6	2.48	0.48
1:A:780:A:O2'	25:Z:8:ARG:HB3	2.13	0.48
1:A:918:U:H2'	1:A:919:A:C8	2.49	0.48
1:A:1078:C:H2'	1:A:1079:U:C6	2.49	0.48
1:A:1096:C:O2'	1:A:1097:U:OP2	2.24	0.48
3:C:164:ILE:O	3:C:168:ILE:HD12	2.13	0.48
3:C:205:PHE:HB3	3:C:207:LEU:CD1	2.40	0.48
8:H:163:THR:OG1	8:H:165:GLY:O	2.31	0.48
17:R:57:LEU:HD23	17:R:57:LEU:H	1.78	0.48
20:U:103:LYS:HA	20:U:106:GLN:HB2	1.95	0.48
23:X:55:ASP:HB2	23:X:57:ARG:HD2	1.94	0.48
30:AD:26:GLY:HA3	35:1:1730:G:C6	2.48	0.48
33:CE:41:VAL:HA	33:CE:185:GLY:HA3	1.96	0.48
35:1:109:A:H4'	35:1:110:G:OP1	2.13	0.48
35:1:616:G:H2'	35:1:617:G:C8	2.48	0.48
35:1:649:A:H2'	35:1:650:C:C6	2.49	0.48
35:1:1666:G:H2'	35:1:1667:A:H8	1.77	0.48
35:1:3287:U:H2'	35:1:3288:G:H5'	1.96	0.48
39:m:107:ARG:HH22	39:m:120:LYS:HA	1.79	0.48
40:n:40:LEU:HG	40:n:84:VAL:HG11	1.96	0.48
46:t:91:ARG:CZ	46:t:97:VAL:HB	2.43	0.48
48:v:124:ASP:OD1	48:v:126:THR:N	2.45	0.48
49:w:3:VAL:HG13	49:w:4:GLU:H	1.79	0.48
52:z:115:ILE:CD1	52:z:120:TYR:HB2	2.44	0.48
54:2:91:LEU:HD12	54:2:96:ILE:HD11	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:414:U:H2'	35:AR:415:G:C8	2.49	0.48
35:AR:660:A:H5"	38:CF:100:PHE:CD2	2.49	0.48
35:AR:736:A:C5	35:AR:737:G:H1'	2.49	0.48
35:AR:1336:U:H2'	35:AR:1337:A:C8	2.48	0.48
35:AR:1509:A:H2'	35:AR:1510:G:C8	2.49	0.48
35:AR:1515:A:H2'	35:AR:1516:C:H6	1.78	0.48
35:AR:1615:C:H2'	35:AR:1616:U:H6	1.79	0.48
35:AR:2187:G:OP2	80:AR:3473:OHX:N1	2.46	0.48
35:AR:2389:C:H2'	35:AR:2390:A:H8	1.78	0.48
35:AR:2875:U:OP2	35:AR:2945:G:N1	2.37	0.48
35:AR:3037:U:O4	80:AR:3554:OHX:N1	2.46	0.48
35:AR:3208:G:H2'	53:CU:166:LYS:HZ3	1.77	0.48
35:AR:3369:G:OP2	57:CY:61:LYS:HE3	2.13	0.48
45:CM:115:LYS:HA	45:CM:115:LYS:HD3	1.66	0.48
46:CN:47:ALA:C	46:CN:49:ARG:H	2.21	0.48
52:CT:25:ASP:HB3	52:CT:28:GLU:HB2	1.96	0.48
71:p0:91:GLU:HA	71:p0:91:GLU:OE2	2.13	0.48
75:d:9:LEU:HD21	75:d:34:GLU:CB	2.38	0.48
1:sR:209:U:H2'	1:sR:210:A:C8	2.48	0.48
1:sR:324:U:OP1	13:c1:133:LYS:HE3	2.13	0.48
1:sR:333:A:OP1	10:s8:31:ARG:NH2	2.47	0.48
1:sR:1045:C:OP1	3:s1:153:HIS:NE2	2.46	0.48
1:sR:1161:C:OP1	80:sR:2028:OHX:N6	2.47	0.48
1:sR:1420:C:H2'	1:sR:1421:A:O4'	2.14	0.48
1:sR:1433:G:N1	76:d9:45:GLU:OE1	2.36	0.48
1:sR:1617:U:C4'	75:d8:23:GLY:HA3	2.43	0.48
1:sR:1617:U:H4'	75:d8:23:GLY:HA3	1.95	0.48
1:sR:1697:G:H3'	1:sR:1698:G:H8	1.79	0.48
1:sR:1732:A:H2'	1:sR:1733:C:H6	1.78	0.48
79:Rb:203:THR:HG23	79:Rb:245:PHE:CD2	2.49	0.48
4:s2:179:VAL:HG13	4:s2:197:TYR:HA	1.96	0.48
5:s3:195:SER:C	5:s3:196:ARG:HD3	2.39	0.48
6:s4:54:TYR:OH	6:s4:97:GLU:OE2	2.29	0.48
9:s7:20:VAL:HG23	9:s7:23:ALA:HB3	1.94	0.48
9:s7:58:LEU:O	9:s7:90:VAL:HA	2.14	0.48
9:s7:76:LYS:O	9:s7:79:ARG:HG3	2.13	0.48
9:s7:82:GLU:OE2	9:s7:89:HIS:HD2	1.96	0.48
11:s9:80:LEU:HD22	11:s9:85:VAL:HG21	1.96	0.48
17:c6:95:LYS:HD3	17:c6:96:TYR:CZ	2.47	0.48
19:c8:24:GLY:HA2	19:c8:58:ALA:CB	2.41	0.48
20:c9:42:GLY:CA	20:c9:94:ILE:HD11	2.43	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:c9:84:LYS:HG3	20:c9:85:SER:N	2.28	0.48
22:d1:86:SER:OG	74:d7:11:THR:HG22	2.12	0.48
23:d2:102:VAL:O	23:d2:113:HIS:N	2.46	0.48
24:d3:92:CYS:HA	24:d3:95:PHE:CD2	2.48	0.48
75:d8:10:ALA:HA	75:d8:31:GLU:O	2.13	0.48
76:d9:39:CYS:SG	76:d9:42:CYS:HB2	2.53	0.48
1:A:696:C:H1'	1:A:697:C:H2'	1.96	0.48
1:A:1213:G:N7	80:A:2117:OHX:N5	2.62	0.48
1:A:1498:G:C2'	1:A:1499:G:H5'	2.44	0.48
1:A:1535:U:H1'	1:A:1536:G:C2	2.48	0.48
1:A:1783:C:OP2	67:AO:5:TRP:HD1	1.97	0.48
1:A:1797:A:OP2	73:b:10:ARG:NE	2.44	0.48
3:C:135:LEU:HD23	3:C:136:ARG:N	2.28	0.48
3:C:138:PHE:CD1	3:C:214:LYS:HB3	2.48	0.48
4:D:89:GLN:HE22	4:D:94:GLN:HE21	1.62	0.48
4:D:175:GLY:O	11:K:53:ARG:NH2	2.46	0.48
5:E:42:THR:HG23	5:E:45:LYS:O	2.14	0.48
5:E:64:ARG:HH22	12:L:88:PRO:CB	2.27	0.48
5:E:134:CYS:SG	5:E:135:GLU:N	2.87	0.48
7:G:54:LYS:HD2	7:G:135:ASP:OD1	2.14	0.48
7:G:136:ALA:HA	7:G:201:ALA:O	2.13	0.48
9:I:74:GLN:O	9:I:75:THR:C	2.55	0.48
10:J:114:GLU:OE1	10:J:118:GLY:HA2	2.13	0.48
10:J:152:ILE:O	10:J:153:GLU:HG3	2.13	0.48
12:L:77:ARG:HA	12:L:82:LEU:HB2	1.96	0.48
15:P:111:ARG:HB3	73:b:58:VAL:HG12	1.94	0.48
17:R:36:ILE:HG22	17:R:49:TYR:HE1	1.78	0.48
23:X:7:LEU:CD2	23:X:11:LEU:HD12	2.43	0.48
24:Y:77:ILE:HG13	24:Y:78:LYS:N	2.27	0.48
31:CD:37:ARG:HH22	35:AR:2525:G:P	2.37	0.48
30:DE:50:VAL:HB	35:AR:2553:U:O4'	2.14	0.48
35:1:150:A:OP1	48:v:56:LYS:NZ	2.47	0.48
35:1:518:G:O6	80:1:4174:OHX:N2	2.46	0.48
35:1:543:C:H3'	35:1:544:C:C6	2.49	0.48
35:1:636:C:O2	35:1:2377:G:O2'	2.30	0.48
35:1:1278:A:O2'	35:1:1279:C:C6	2.67	0.48
35:1:1366:A:H2'	35:1:1367:G:C8	2.48	0.48
35:1:2186:U:H2'	35:1:2187:G:O4'	2.14	0.48
35:1:2728:G:C6	54:2:80:VAL:HG21	2.49	0.48
35:1:2883:U:H2'	35:1:2884:C:H6	1.79	0.48
36:3:20:A:H2'	36:3:21:G:C8	2.48	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:j:142:ASP:C	31:j:144:ASN:H	2.19	0.48
42:p:212:ALA:O	42:p:215:VAL:HG22	2.14	0.48
48:v:14:LYS:HA	48:v:19:LEU:HD23	1.95	0.48
54:2:95:HIS:O	54:2:96:ILE:HD13	2.14	0.48
55:5:22:PRO:HA	55:5:107:PHE:CE2	2.48	0.48
35:AR:392:G:N7	80:AR:3570:OHX:N1	2.62	0.48
35:AR:619:A:H4'	35:AR:620:U:C5'	2.43	0.48
35:AR:929:A:H2'	35:AR:930:U:C6	2.48	0.48
35:AR:2631:U:P	54:CV:6:GLY:HA3	2.53	0.48
35:AR:2662:G:H2'	35:AR:2663:G:H8	1.78	0.48
35:AR:3084:C:H2'	35:AR:3085:G:O4'	2.14	0.48
35:AR:3383:G:H2'	35:AR:3384:U:C6	2.48	0.48
38:CF:317:PRO:C	38:CF:319:LYS:H	2.21	0.48
42:CJ:231:LYS:HE3	42:CJ:231:LYS:HA	1.96	0.48
51:CS:175:ALA:O	51:CS:182:LYS:HB2	2.13	0.48
52:CT:118:HIS:O	52:CT:122:VAL:HG23	2.13	0.48
55:CW:54:VAL:HG12	55:CW:67:SER:HA	1.96	0.48
58:CZ:131:ASP:HB3	58:CZ:134:ASP:HB2	1.95	0.48
60:DI:5:VAL:HG22	60:DI:6:THR:H	1.77	0.48
74:c:34:ASP:O	74:c:79:PHE:HA	2.14	0.48
1:sR:200:A:H2'	1:sR:201:G:H8	1.77	0.48
1:sR:427:C:O2'	1:sR:459:G:N3	2.43	0.48
1:sR:449:C:H2'	1:sR:450:U:H6	1.79	0.48
1:sR:846:G:N2	13:c1:46:LYS:HD2	2.27	0.48
1:sR:1230:A:N7	1:sR:1231:U:H1'	2.28	0.48
2:s0:50:VAL:O	2:s0:53:THR:HG22	2.14	0.48
3:s1:141:ALA:HB1	3:s1:207:LEU:HD22	1.95	0.48
5:s3:23:GLU:OE1	12:c0:61:TRP:NE1	2.46	0.48
10:s8:57:ALA:HB2	10:s8:177:GLY:HA2	1.94	0.48
10:s8:64:ASN:HA	10:s8:75:LYS:HA	1.96	0.48
12:c0:77:ARG:NE	12:c0:83:PRO:HA	2.29	0.48
15:c4:29:HIS:NE2	15:c4:38:THR:HB	2.29	0.48
19:c8:6:GLN:CD	19:c8:6:GLN:N	2.69	0.48
23:d2:67:GLY:O	23:d2:68:ARG:HG2	2.14	0.48
23:d2:77:PRO:HD2	23:d2:79:PHE:HE1	1.77	0.48
1:A:735:C:H2'	1:A:735:C:OP2	2.14	0.48
1:A:929:A:O5'	1:A:931:C:N4	2.47	0.48
1:A:1330:G:H1	5:E:204:ASP:CG	2.21	0.48
1:A:1400:A:H5'	18:S:60:ARG:NH1	2.28	0.48
1:A:1483:A:H2'	1:A:1484:G:C8	2.48	0.48
2:B:102:PHE:CD1	2:B:104:PRO:HA	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:29:PRO:HG3	6:F:45:ILE:HD13	1.95	0.48
6:F:198:LYS:NZ	6:F:200:ARG:HG3	2.29	0.48
7:G:39:GLU:O	7:G:40:ILE:C	2.55	0.48
7:G:121:ILE:HG21	7:G:132:VAL:HG21	1.95	0.48
14:O:30:SER:HA	14:O:66:ILE:HG22	1.95	0.48
15:P:111:ARG:HA	73:b:56:ALA:O	2.14	0.48
19:T:2:SER:HA	19:T:55:HIS:NE2	2.29	0.48
33:CE:77:THR:HG23	33:CE:326:GLY:O	2.14	0.48
35:1:274:G:H2'	35:1:275:U:O4'	2.13	0.48
35:1:289:A:H2'	35:1:290:G:H8	1.77	0.48
35:1:534:U:O2	53:0:146:LYS:HA	2.13	0.48
35:1:1018:G:H2'	35:1:1019:G:C8	2.49	0.48
35:1:1155:C:O2'	35:1:1197:A:N1	2.37	0.48
35:1:1334:U:H5"	41:o:206:LYS:HB3	1.95	0.48
35:1:1498:A:H5'	35:1:1602:A:H1'	1.96	0.48
35:1:2389:C:H2'	35:1:2390:A:H8	1.78	0.48
35:1:2880:U:H1'	33:k:250:ALA:HB3	1.94	0.48
38:l:354:VAL:O	38:l:358:THR:HG22	2.12	0.48
39:m:164:LYS:NZ	39:m:168:ASP:OD1	2.39	0.48
40:n:60:ASP:OD1	40:n:62:THR:OG1	2.26	0.48
43:q:27:VAL:HG11	43:q:79:ILE:HG22	1.96	0.48
43:q:90:MET:HB2	43:q:144:ILE:CG2	2.44	0.48
46:t:140:SER:O	46:t:144:THR:HG23	2.14	0.48
52:z:118:HIS:O	52:z:122:VAL:HG23	2.14	0.48
55:5:18:ASP:OD1	55:5:20:SER:N	2.45	0.48
55:5:70:LYS:HG3	55:5:70:LYS:O	2.14	0.48
55:5:97:SER:HB2	55:5:103:TYR:HD1	1.77	0.48
35:AR:59:G:H2'	37:AT:33:A:O2'	2.14	0.48
35:AR:98:G:N7	46:CN:13:HIS:NE2	2.56	0.48
35:AR:210:U:C2	35:AR:230:U:H4'	2.48	0.48
35:AR:551:A:O2'	35:AR:552:G:H8	1.96	0.48
35:AR:1378:U:H2'	35:AR:1379:G:H8	1.79	0.48
35:AR:1661:G:H2'	35:AR:1662:G:H8	1.73	0.48
35:AR:2228:A:H2'	35:AR:2229:A:H8	1.75	0.48
35:AR:2766:U:H2'	35:AR:2767:U:C6	2.49	0.48
35:AR:3294:A:H2'	35:AR:3295:A:O4'	2.14	0.48
39:CG:104:LEU:HD13	39:CG:247:ILE:HG23	1.95	0.48
42:CJ:108:ARG:O	42:CJ:112:GLU:HG2	2.14	0.48
51:CS:177:GLY:O	51:CS:186:VAL:N	2.47	0.48
52:CT:179:GLU:O	52:CT:182:ASP:HB2	2.14	0.48
54:CV:17:ARG:HB3	54:CV:22:HIS:CE1	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:CW:97:SER:HB2	55:CW:103:TYR:CD1	2.49	0.48
32:DF:48:ASP:OD2	32:DF:50:ARG:NH2	2.46	0.48
62:DK:55:ARG:O	62:DK:58:ILE:HG13	2.13	0.48
64:DM:77:ARG:HE	64:DM:77:ARG:HB2	1.49	0.48
1:sR:514:G:N3	1:sR:515:A:C8	2.82	0.48
1:sR:650:U:C2'	1:sR:651:G:H5'	2.44	0.48
1:sR:725:U:H2'	1:sR:726:C:C6	2.48	0.48
1:sR:748:U:P	23:d2:80:ASN:HD22	2.36	0.48
1:sR:1159:C:N3	80:sR:1991:OHX:N3	2.61	0.48
1:sR:1624:C:H2'	1:sR:1625:C:H6	1.79	0.48
9:s7:31:SER:HB2	9:s7:35:LYS:HG3	1.95	0.48
15:c4:47:LYS:CE	15:c4:62:LEU:HB3	2.44	0.48
17:c6:114:ARG:O	17:c6:115:THR:HG22	2.13	0.48
19:c8:52:VAL:HG11	19:c8:61:LEU:HD21	1.94	0.48
1:A:523:G:H5"	25:Z:59:GLY:O	2.13	0.48
1:A:809:A:H2'	1:A:810:G:C8	2.49	0.48
1:A:1235:C:H3'	1:A:1236:A:H8	1.79	0.48
1:A:1378:U:H2'	1:A:1379:C:O4'	2.13	0.48
1:A:1391:A:H2'	1:A:1392:U:H6	1.78	0.48
2:B:76:ILE:CD1	2:B:121:VAL:HG23	2.43	0.48
3:C:57:ALA:O	3:C:61:LEU:HD11	2.14	0.48
5:E:23:GLU:CD	12:L:61:TRP:HE1	2.18	0.48
5:E:118:ALA:O	5:E:122:VAL:HG13	2.14	0.48
9:I:37:GLU:O	9:I:41:LEU:HD21	2.13	0.48
9:I:109:VAL:O	9:I:110:GLN:C	2.56	0.48
11:K:54:ARG:HA	11:K:57:ARG:HG2	1.94	0.48
14:O:47:PRO:HA	14:O:50:ILE:HD12	1.96	0.48
16:Q:17:TYR:O	19:T:92:ILE:O	2.31	0.48
16:Q:18:ARG:HD3	19:T:90:ASN:OD1	2.12	0.48
27:DA:37:LYS:H	27:DA:37:LYS:CD	2.26	0.48
35:1:67:A:OP1	80:1:3434:OHX:N6	2.47	0.48
35:1:718:G:O6	35:1:751:A:H1'	2.14	0.48
35:1:1779:C:C5'	52:z:97:ARG:HH22	2.26	0.48
35:1:2315:G:OP1	80:1:3504:OHX:N6	2.46	0.48
35:1:2316:G:OP1	80:1:3562:OHX:N5	2.47	0.48
35:1:2407:C:H1'	35:1:2818:U:C2	2.49	0.48
35:1:2433:U:C1'	48:v:125:SER:HB3	2.44	0.48
35:1:2635:A:H4'	35:1:2636:A:O5'	2.14	0.48
36:3:11:A:H4'	36:3:13:A:C8	2.49	0.48
49:w:157:GLU:O	49:w:161:LYS:HG3	2.14	0.48
55:5:87:ASN:HB2	55:5:89:LEU:HD22	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:8:73:MET:O	58:8:77:GLU:HG3	2.14	0.48
60:AH:42:PRO:HB2	60:AH:51:LEU:HD21	1.95	0.48
35:AR:213:A:H61	35:AR:227:G:H2'	1.79	0.48
35:AR:265:A:H5"	35:AR:266:A:OP2	2.13	0.48
35:AR:499:G:H2'	35:AR:500:C:C6	2.48	0.48
35:AR:800:G:O6	38:CF:104:LYS:NZ	2.38	0.48
35:AR:1386:A:N7	38:CF:183:LYS:HD3	2.28	0.48
35:AR:2762:A:N6	35:AR:2800:G:H2'	2.29	0.48
35:AR:3000:A:H2'	35:AR:3001:C:H6	1.79	0.48
35:AR:3310:A:OP1	50:CR:74:LYS:HE3	2.13	0.48
39:CG:68:THR:HG22	39:CG:71:GLY:O	2.14	0.48
41:CI:236:ILE:O	41:CI:240:VAL:HG13	2.14	0.48
44:CL:100:ASN:OD1	80:CL:302:OHX:N2	2.47	0.48
45:CM:34:SER:HB2	45:CM:67:VAL:HG11	1.94	0.48
55:CW:95:PHE:CE1	55:CW:103:TYR:HB3	2.48	0.48
55:CW:104:ARG:C	55:CW:105:LEU:HD12	2.39	0.48
68:DQ:71:ARG:C	68:DQ:72:LEU:HD23	2.39	0.48
1:sR:58:U:OP2	87:sR:2202:HOH:O	2.20	0.48
1:sR:291:G:H2'	1:sR:292:U:C6	2.48	0.48
1:sR:380:U:O3'	11:s9:2:PRO:HA	2.13	0.48
1:sR:1330:G:H2'	1:sR:1331:A:O4'	2.14	0.48
1:sR:1458:G:OP2	19:c8:139:LYS:HB2	2.14	0.48
1:sR:1559:A:C4	19:c8:134:ARG:HG2	2.49	0.48
79:Rb:104:VAL:O	79:Rb:134:TRP:CH2	2.67	0.48
79:Rb:176:LYS:NZ	79:Rb:196:ASN:HA	2.28	0.48
3:s1:46:THR:HG22	3:s1:47:LEU:N	2.28	0.48
4:s2:143:TYR:CD1	4:s2:151:PRO:HB3	2.49	0.48
5:s3:212:LYS:O	5:s3:214:GLU:HG2	2.14	0.48
15:c4:82:LYS:HB3	15:c4:118:VAL:HG21	1.96	0.48
19:c8:6:GLN:HG3	72:d5:44:GLN:NE2	2.28	0.48
78:e1:106:TYR:HE1	78:e1:116:LYS:HG2	1.78	0.48
78:e1:108:VAL:HG23	78:e1:114:VAL:CG2	2.44	0.48
78:e1:108:VAL:HA	78:e1:114:VAL:HG13	1.94	0.48
1:A:112:A:O2'	1:A:113:U:H5'	2.14	0.48
1:A:169:A:OP1	8:H:137:ARG:CZ	2.62	0.48
1:A:400:A:H2'	10:J:24:LYS:O	2.13	0.48
1:A:639:U:H1'	1:A:640:U:C5	2.49	0.48
1:A:793:A:H4'	1:A:794:U:H2'	1.94	0.48
1:A:1100:G:O2'	23:X:76:SER:N	2.45	0.48
1:A:1198:G:O4'	21:V:73:GLY:HA3	2.14	0.48
1:A:1235:C:H5'	78:g:146:SER:HB3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1245:G:O6	1:A:1250:U:O4	2.32	0.48
1:A:1594:G:OP2	1:A:1596:C:N4	2.47	0.48
80:A:2149:OHX:N4	10:J:17:LYS:O	2.46	0.48
2:B:13:ASP:OD2	2:B:179:ARG:NH1	2.45	0.48
3:C:33:LYS:HA	3:C:41:ARG:O	2.13	0.48
4:D:227:PRO:HA	4:D:230:TRP:CD2	2.48	0.48
5:E:74:GLN:HE22	5:E:81:PRO:HA	1.77	0.48
8:H:7:TYR:HB3	8:H:12:SER:HB2	1.95	0.48
16:Q:107:ILE:HA	16:Q:111:MET:CE	2.44	0.48
18:S:5:ARG:HB2	18:S:10:LYS:HE2	1.95	0.48
23:X:37:PHE:CZ	23:X:103:ILE:HG21	2.48	0.48
26:DB:26:VAL:HG21	26:DB:96:VAL:HG21	1.94	0.48
26:DB:73:LYS:NZ	35:AR:1637:A:OP2	2.46	0.48
28:DC:75:LEU:HD23	28:DC:78:LEU:HG	1.96	0.48
30:AD:17:VAL:HG22	30:AD:98:SER:HB2	1.95	0.48
30:DE:13:LYS:O	30:DE:17:VAL:HG23	2.14	0.48
35:1:68:C:O3'	48:v:177:GLY:HA2	2.13	0.48
35:1:272:G:H1'	62:AJ:82:ARG:HH12	1.79	0.48
35:1:290:G:H2'	35:1:291:C:C6	2.49	0.48
35:1:539:C:H2'	35:1:540:U:H6	1.76	0.48
35:1:839:C:H4'	35:1:1724:U:C2'	2.44	0.48
35:1:1096:U:H4'	35:1:1097:G:O5'	2.14	0.48
35:1:1246:G:H2'	35:1:1247:U:O4'	2.14	0.48
35:1:1447:G:OP1	50:x:65:SER:HB2	2.13	0.48
35:1:2342:U:H2'	35:1:2343:C:H6	1.78	0.48
35:1:3024:A:H4'	43:q:97:PHE:CE1	2.48	0.48
35:1:3255:U:H2'	35:1:3256:G:H8	1.78	0.48
31:j:80:GLU:CD	69:AQ:73:THR:HG22	2.39	0.48
33:k:66:LYS:HZ3	33:k:70:ARG:HH22	1.61	0.48
43:q:190:ASP:C	43:q:191:LEU:HD22	2.39	0.48
45:s:46:VAL:HG12	70:i:25:ILE:HG22	1.94	0.48
46:t:76:THR:O	46:t:76:THR:OG1	2.32	0.48
51:y:81:VAL:HG23	51:y:101:VAL:HG13	1.95	0.48
53:0:13:ARG:O	53:0:22:PRO:HG2	2.13	0.48
64:AL:46:ARG:NH1	64:AL:51:LEU:HB2	2.29	0.48
35:AR:966:U:H2'	35:AR:967:A:C8	2.49	0.48
35:AR:1464:G:N7	80:AR:3475:OHX:N1	2.62	0.48
35:AR:1598:G:OP2	60:DI:31:ARG:NH2	2.42	0.48
35:AR:1716:U:O2'	35:AR:1717:U:O5'	2.29	0.48
45:CM:60:ARG:O	45:CM:63:GLU:HB2	2.14	0.48
48:CP:9:GLU:HG2	62:DK:44:VAL:HG21	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
48:CP:39:ALA:HB3	48:CP:61:ILE:HG22	1.95	0.48
54:CV:136:ARG:HB3	54:CV:139:ARG:NH1	2.28	0.48
55:CW:96:VAL:HG12	55:CW:97:SER:N	2.29	0.48
60:DI:46:ASP:HB2	60:DI:80:ARG:HG3	1.96	0.48
60:DI:100:ILE:O	60:DI:103:LYS:HE3	2.13	0.48
76:e:19:ARG:NE	76:e:32:ARG:HH11	2.12	0.48
79:h:278:PHE:CD2	79:h:287:PRO:HD2	2.49	0.48
1:sR:53:G:H2'	1:sR:54:C:C6	2.49	0.48
1:sR:158:U:O4	1:sR:420:A:H4'	2.14	0.48
1:sR:516:G:H3'	1:sR:517:U:H6	1.79	0.48
1:sR:521:A:C2'	25:d4:34:ASN:HD22	2.25	0.48
1:sR:609:U:H4'	1:sR:610:G:O5'	2.14	0.48
1:sR:747:C:C4'	23:d2:80:ASN:HD21	2.26	0.48
1:sR:759:U:H5"	80:sR:2023:OHX:N2	2.29	0.48
1:sR:1198:G:OP1	1:sR:1199:G:O2'	2.26	0.48
1:sR:1451:C:H2'	1:sR:1452:U:C6	2.48	0.48
1:sR:1525:A:H2'	1:sR:1526:A:C8	2.49	0.48
1:sR:1708:U:H2'	1:sR:1709:C:C6	2.48	0.48
79:Rb:93:ASP:HB3	79:Rb:96:THR:HG22	1.95	0.48
5:s3:105:MET:HG2	5:s3:184:ILE:HD13	1.96	0.48
7:s5:200:ASN:ND2	7:s5:207:THR:O	2.46	0.48
13:c1:92:HIS:HB2	13:c1:103:ARG:HD2	1.95	0.48
14:c3:31:GLU:CD	14:c3:31:GLU:H	2.21	0.48
15:c4:13:VAL:HG22	15:c4:77:THR:CG2	2.43	0.48
25:d4:56:SER:OG	25:d4:94:TYR:OH	2.19	0.48
73:d6:12:LYS:O	73:d6:15:ARG:NH1	2.47	0.48
1:A:627:C:H2'	1:A:628:G:O4'	2.14	0.47
1:A:826:U:H2'	1:A:827:C:C6	2.49	0.47
1:A:1524:A:C6	1:A:1525:A:C6	3.02	0.47
3:C:69:CYS:HB3	3:C:72:ASP:OD2	2.13	0.47
4:D:126:ARG:O	4:D:129:ILE:HG22	2.14	0.47
4:D:237:VAL:HG12	4:D:242:ILE:CD1	2.43	0.47
11:K:101:VAL:HG22	11:K:105:LEU:HD11	1.96	0.47
13:M:53:TYR:C	13:M:53:TYR:CD1	2.92	0.47
15:P:117:ASP:OD1	15:P:118:VAL:N	2.47	0.47
15:P:127:ARG:HG3	73:b:22:ARG:NH1	2.28	0.47
17:R:39:VAL:HG22	17:R:45:ARG:NH1	2.29	0.47
17:R:47:LYS:HD2	17:R:47:LYS:HA	1.67	0.47
20:U:136:ALA:O	20:U:140:LEU:HD13	2.14	0.47
21:V:18:GLN:H	21:V:97:VAL:HG13	1.79	0.47
23:X:76:SER:OG	24:Y:7:ARG:HD2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:X:81:VAL:HG23	23:X:85:ASP:HB2	1.96	0.47
25:Z:37:LYS:HB2	25:Z:37:LYS:HE3	1.59	0.47
25:Z:84:LYS:HD2	25:Z:85:PHE:CE1	2.49	0.47
33:CE:41:VAL:HA	33:CE:185:GLY:CA	2.43	0.47
35:1:283:G:OP2	35:1:285:A:H4'	2.13	0.47
35:1:701:G:H2'	35:1:702:C:C6	2.49	0.47
35:1:1063:G:N7	35:1:1097:G:H2'	2.29	0.47
35:1:1332:A:H2'	35:1:1333:C:C6	2.49	0.47
35:1:2247:G:O2'	35:1:2271:A:N1	2.44	0.47
35:1:2267:C:H2'	35:1:2268:U:O4'	2.14	0.47
35:1:2389:C:H2'	35:1:2390:A:C8	2.49	0.47
35:1:3056:U:OP2	80:1:3456:OHX:N1	2.46	0.47
36:3:94:C:H2'	36:3:95:A:H8	1.76	0.47
31:j:200:ARG:HB3	31:j:202:VAL:HG12	1.96	0.47
41:o:25:GLN:CG	41:o:29:GLU:HB2	2.44	0.47
45:s:89:TYR:O	45:s:169:ALA:HB1	2.14	0.47
46:t:76:THR:OG1	46:t:79:GLU:HB2	2.13	0.47
47:u:22:LEU:HD13	47:u:32:LEU:HD23	1.95	0.47
55:5:22:PRO:HB2	55:5:28:PHE:CD2	2.48	0.47
61:AI:29:ALA:O	61:AI:33:VAL:HG23	2.14	0.47
35:AR:273:A:H2'	35:AR:274:G:C8	2.48	0.47
35:AR:428:A:H2'	35:AR:429:U:C6	2.49	0.47
35:AR:791:A:H2'	35:AR:792:G:C8	2.49	0.47
35:AR:1101:G:OP2	41:CI:196:LYS:HE2	2.14	0.47
35:AR:1840:U:H4'	35:AR:1841:A:H5"	1.95	0.47
35:AR:2168:A:N6	35:AR:2170:U:O2	2.47	0.47
35:AR:2792:A:H5'	68:DQ:84:THR:HG21	1.94	0.47
35:AR:3013:U:H2'	35:AR:3014:U:C6	2.49	0.47
36:AS:47:C:H2'	36:AS:48:U:C6	2.49	0.47
45:CM:131:MET:HE3	45:CM:131:MET:HB3	1.77	0.47
54:CV:126:VAL:HG23	54:CV:127:GLN:H	1.78	0.47
55:CW:13:LYS:HE2	55:CW:13:LYS:HB3	1.69	0.47
60:DI:107:GLU:HA	60:DI:110:GLU:HG2	1.96	0.47
79:h:58:VAL:C	79:h:59:ARG:HG2	2.39	0.47
1:sR:116:U:H2'	1:sR:117:U:C6	2.49	0.47
1:sR:176:C:H3'	1:sR:177:U:H6	1.79	0.47
79:Rb:181:TRP:CZ3	79:Rb:188:ILE:HG12	2.49	0.47
79:Rb:232:TYR:OH	79:Rb:265:LEU:HD12	2.13	0.47
79:Rb:301:LEU:HB3	79:Rb:313:TRP:O	2.14	0.47
3:s1:144:ARG:HB3	3:s1:206:PRO:CB	2.44	0.47
5:s3:96:LEU:HD23	5:s3:96:LEU:HA	1.72	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:c3:99:ARG:HG3	14:c3:115:LEU:HD21	1.95	0.47
17:c6:97:VAL:HG22	17:c6:98:ASP:H	1.79	0.47
17:c6:129:PHE:HD2	21:d0:79:TRP:HB2	1.78	0.47
23:d2:95:PRO:HD3	23:d2:130:TYR:CD2	2.49	0.47
76:d9:19:ARG:O	76:d9:19:ARG:CG	2.60	0.47
1:A:679:U:H2'	1:A:680:U:C6	2.49	0.47
1:A:711:U:H1'	1:A:712:G:C8	2.41	0.47
4:D:226:THR:HG23	4:D:229:LEU:HD13	1.95	0.47
6:F:178:GLY:HA2	6:F:194:THR:O	2.14	0.47
6:F:191:ARG:HE	6:F:245:LYS:CB	2.27	0.47
9:I:18:LEU:HD12	9:I:18:LEU:H	1.77	0.47
10:J:8:ARG:HD3	10:J:20:GLN:HA	1.96	0.47
11:K:65:LYS:HA	11:K:70:LEU:CD2	2.44	0.47
27:DA:36:SER:HB3	27:DA:106:ILE:O	2.14	0.47
34:AF:3:SER:HB3	34:AF:71:HIS:CE1	2.49	0.47
35:1:63:A:H2'	35:1:64:G:C8	2.49	0.47
35:1:499:G:H2'	35:1:500:C:H6	1.79	0.47
35:1:560:G:OP1	47:u:83:LYS:NZ	2.43	0.47
35:1:665:A:OP1	48:v:203:ARG:NH1	2.47	0.47
35:1:675:C:O2'	35:1:679:U:OP1	2.29	0.47
35:1:839:C:O2'	35:1:1724:U:OP1	2.21	0.47
35:1:968:G:H2'	35:1:969:C:H6	1.77	0.47
35:1:1109:U:H2'	35:1:1110:U:C6	2.49	0.47
35:1:1313:G:H2'	35:1:1314:C:C6	2.50	0.47
35:1:1355:A:H1'	35:1:1356:U:OP2	2.14	0.47
35:1:1584:U:H2'	35:1:1585:C:C6	2.49	0.47
35:1:1603:A:OP1	52:z:38:ARG:NH1	2.47	0.47
35:1:1623:G:C4	35:1:1624:G:C8	3.01	0.47
35:1:1949:G:H2'	35:1:1950:U:H6	1.80	0.47
35:1:3015:G:OP1	80:1:3600:OHX:N5	2.47	0.47
38:l:23:PRO:HD2	38:l:26:PHE:CD2	2.49	0.47
47:u:14:LEU:CD2	53:0:151:PRO:HB3	2.44	0.47
48:v:16:SER:HB2	62:AJ:48:ALA:HB1	1.95	0.47
49:w:174:PHE:O	49:w:178:VAL:HG13	2.14	0.47
55:5:36:TYR:HD1	55:5:36:TYR:C	2.22	0.47
58:8:105:VAL:HA	58:8:130:TYR:CE2	2.49	0.47
63:AK:28:HIS:ND1	63:AK:31:LYS:HB2	2.28	0.47
35:AR:636:C:O2	35:AR:2377:G:O2'	2.25	0.47
35:AR:1390:A:N3	35:AR:1390:A:H5'	2.30	0.47
35:AR:1618:G:H4'	37:AT:129:C:C1'	2.43	0.47
35:AR:1753:G:O6	80:AR:3583:OHX:N5	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:2668:U:H2'	35:AR:2669:G:C8	2.49	0.47
37:AT:111:A:OP1	63:DL:32:LYS:NZ	2.42	0.47
45:CM:84:LEU:HD21	45:CM:163:PHE:HE1	1.79	0.47
46:CN:80:VAL:HG23	46:CN:85:LEU:CD1	2.44	0.47
56:CX:94:TYR:CE1	57:CY:21:PHE:HB2	2.49	0.47
56:CX:104:ASN:ND2	56:CX:108:GLU:OE1	2.45	0.47
59:DH:71:VAL:HG13	59:DH:81:VAL:HG21	1.96	0.47
63:DL:25:ARG:O	63:DL:25:ARG:CG	2.62	0.47
68:DQ:74:CYS:O	68:DQ:78:LYS:HA	2.15	0.47
70:sM:51:ARG:CZ	70:sM:52:PRO:HD2	2.44	0.47
72:a:39:ALA:C	72:a:41:ILE:H	2.22	0.47
79:h:13:LEU:HD12	79:h:45:TRP:CE3	2.49	0.47
79:h:20:VAL:CG2	79:h:304:GLY:HA3	2.44	0.47
1:sR:74:U:H5"	1:sR:75:U:OP2	2.14	0.47
1:sR:463:U:H2'	1:sR:464:A:C8	2.49	0.47
1:sR:488:G:N2	1:sR:499:U:H3	2.10	0.47
1:sR:687:G:H2'	1:sR:687:G:N3	2.28	0.47
1:sR:855:A:C2	1:sR:857:U:H1'	2.50	0.47
1:sR:1273:G:O5'	1:sR:1274:C:H3'	2.12	0.47
79:Rb:9:LEU:HD22	79:Rb:313:TRP:HA	1.96	0.47
79:Rb:152:SER:HB2	79:Rb:199:ILE:O	2.14	0.47
3:s1:165:ARG:O	3:s1:169:SER:OG	2.31	0.47
4:s2:125:ILE:HD12	4:s2:129:ILE:HD11	1.96	0.47
6:s4:151:ASP:HB3	6:s4:154:ILE:CD1	2.44	0.47
7:s5:72:HIS:O	17:c6:47:LYS:HE2	2.13	0.47
7:s5:217:LEU:HA	7:s5:220:VAL:HG12	1.96	0.47
77:e0:30:PRO:O	77:e0:35:TYR:HB2	2.14	0.47
1:A:320:U:H3'	1:A:321:C:C5'	2.40	0.47
1:A:545:A:H4'	1:A:546:U:OP1	2.14	0.47
1:A:876:G:H2'	1:A:936:G:N2	2.30	0.47
1:A:924:A:O2'	1:A:987:G:OP1	2.31	0.47
1:A:1005:A:H2'	1:A:1006:C:C6	2.49	0.47
1:A:1073:G:C2'	1:A:1074:G:H5"	2.39	0.47
1:A:1274:C:H4'	1:A:1275:A:O5'	2.15	0.47
1:A:1570:A:O4'	19:T:145:ARG:NH1	2.47	0.47
1:A:1680:G:H8	1:A:1680:G:OP2	1.97	0.47
3:C:32:ILE:CG2	3:C:98:THR:HG22	2.43	0.47
3:C:128:LYS:HA	3:C:134:VAL:HA	1.96	0.47
6:F:181:VAL:HG12	6:F:227:VAL:HA	1.96	0.47
7:G:114:ILE:HA	7:G:117:THR:OG1	2.14	0.47
13:M:125:VAL:HG12	13:M:139:VAL:HA	1.94	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:P:16:VAL:CG2	15:P:18:ARG:HE	2.27	0.47
16:Q:90:ILE:HA	16:Q:107:ILE:HG22	1.96	0.47
17:R:83:GLN:CG	17:R:87:LYS:HZ3	2.26	0.47
19:T:30:TYR:O	19:T:33:THR:HG22	2.15	0.47
20:U:129:GLN:C	20:U:132:LEU:HG	2.39	0.47
25:Z:84:LYS:HD2	25:Z:85:PHE:HE1	1.78	0.47
26:AA:108:GLU:O	26:AA:112:LYS:HG3	2.14	0.47
27:DA:110:HIS:H	27:DA:115:ARG:HH12	1.61	0.47
26:DB:5:LEU:HG	26:DB:77:TYR:CE2	2.46	0.47
29:AC:41:ARG:NH1	35:1:775:A:O3'	2.47	0.47
28:DC:105:LEU:HA	28:DC:105:LEU:HD12	1.50	0.47
34:AF:24:ARG:HG2	34:AF:25:TYR:CE1	2.49	0.47
35:1:73:C:C4	62:AJ:15:LYS:HD3	2.49	0.47
35:1:297:G:O6	48:v:12:ARG:NH1	2.45	0.47
35:1:562:C:H2'	35:1:563:U:C6	2.48	0.47
35:1:616:G:H2'	35:1:617:G:H8	1.78	0.47
35:1:794:U:C2	35:1:795:G:C8	3.02	0.47
35:1:824:C:H2'	35:1:825:U:C6	2.50	0.47
35:1:1637:A:H1'	35:1:1709:C:O2'	2.14	0.47
35:1:1711:C:H2'	35:1:1712:G:O4'	2.14	0.47
35:1:2178:A:H5"	31:j:129:ALA:HB3	1.96	0.47
35:1:2661:G:H2'	35:1:2662:G:H8	1.79	0.47
35:1:2746:A:H4'	39:m:176:SER:HB2	1.96	0.47
35:1:3016:A:H2'	35:1:3017:A:H8	1.78	0.47
36:3:27:A:O5'	39:m:57:ASN:ND2	2.48	0.47
37:4:36:G:OP1	63:AK:66:TYR:OH	2.27	0.47
38:l:145:ILE:HD11	38:l:150:LEU:HD22	1.95	0.47
38:l:150:LEU:HD11	38:l:172:VAL:HG13	1.97	0.47
41:o:110:ARG:HG2	41:o:111:ILE:N	2.28	0.47
41:o:214:TRP:CE2	41:o:219:LYS:HD2	2.49	0.47
42:p:112:GLU:HB3	42:p:126:SER:OG	2.14	0.47
42:p:248:LYS:O	42:p:251:LYS:HE3	2.14	0.47
46:t:148:ALA:O	46:t:150:PRO:HD3	2.14	0.47
50:x:107:LEU:H	50:x:107:LEU:HD12	1.78	0.47
27:9:11:ASP:OD1	27:9:13:ARG:N	2.48	0.47
62:AJ:90:MET:HA	62:AJ:93:ILE:HD12	1.97	0.47
68:AP:68:VAL:HG22	68:AP:85:LEU:HB2	1.95	0.47
35:AR:976:U:OP1	51:CS:144:ARG:NH2	2.42	0.47
35:AR:1862:U:OP2	80:AR:3641:OHX:N2	2.47	0.47
35:AR:2107:A:H2	35:AR:3344:A:C8	2.31	0.47
35:AR:2881:C:H2'	35:AR:2882:U:H6	1.80	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
36:AS:107:C:H2'	36:AS:108:A:C8	2.49	0.47
38:CF:290:ILE:O	38:CF:296:GLN:NE2	2.43	0.47
41:CI:84:VAL:HG12	41:CI:138:TYR:CD1	2.50	0.47
42:CJ:201:THR:O	42:CJ:202:GLU:C	2.57	0.47
46:CN:11:LYS:O	46:CN:13:HIS:ND1	2.47	0.47
49:CQ:170:LYS:HD3	49:CQ:170:LYS:HA	1.53	0.47
61:DJ:105:ARG:O	61:DJ:109:ILE:HD13	2.14	0.47
64:DM:7:ASP:HB3	64:DM:10:GLN:HB3	1.96	0.47
79:h:220:ILE:HD12	79:h:263:PHE:HE2	1.79	0.47
1:sR:251:A:C2	6:s4:131:LEU:HD12	2.45	0.47
1:sR:514:G:O2'	1:sR:515:A:H5"	2.14	0.47
1:sR:1172:G:H21	20:c9:88:VAL:CG2	2.26	0.47
1:sR:1211:A:O3'	16:c5:100:LYS:NZ	2.47	0.47
1:sR:1579:U:H2'	1:sR:1580:C:C6	2.49	0.47
79:Rb:123:ILE:HG22	79:Rb:134:TRP:H	1.80	0.47
6:s4:205:PHE:HE2	6:s4:221:ARG:HD3	1.76	0.47
7:s5:165:LEU:HG	7:s5:169:ASN:ND2	2.29	0.47
7:s5:197:GLU:HA	7:s5:197:GLU:OE2	2.14	0.47
9:s7:30:SER:C	9:s7:34:LEU:HD12	2.38	0.47
11:s9:65:LYS:O	11:s9:65:LYS:HG3	2.14	0.47
12:c0:27:PHE:CD1	12:c0:27:PHE:N	2.83	0.47
13:c1:67:ARG:HH22	13:c1:129:ARG:H	1.62	0.47
13:c1:79:LYS:HD2	13:c1:79:LYS:HA	1.61	0.47
14:c3:3:ARG:HA	14:c3:3:ARG:NE	2.29	0.47
21:d0:68:ARG:CZ	21:d0:77:LYS:HA	2.45	0.47
23:d2:18:GLU:OE2	23:d2:67:GLY:HA2	2.14	0.47
1:A:74:U:O2'	1:A:75:U:H5"	2.15	0.47
1:A:562:G:H2'	1:A:563:U:H6	1.79	0.47
1:A:881:A:H2'	1:A:882:U:O4'	2.13	0.47
1:A:989:U:H3'	1:A:990:C:C6	2.50	0.47
1:A:1032:G:H2'	1:A:1033:C:C6	2.49	0.47
1:A:1315:U:H2'	1:A:1316:G:O4'	2.14	0.47
1:A:1673:G:H2'	1:A:1674:C:C6	2.49	0.47
1:A:1683:C:O2'	1:A:1684:U:O5'	2.32	0.47
2:B:76:ILE:HA	2:B:98:ILE:O	2.14	0.47
3:C:165:ARG:HA	3:C:168:ILE:HD12	1.95	0.47
4:D:40:LYS:O	4:D:41:LEU:C	2.56	0.47
6:F:117:GLU:O	6:F:120:SER:OG	2.29	0.47
9:I:43:PHE:HE2	9:I:45:SER:C	2.22	0.47
10:J:69:SER:OG	13:M:24:LYS:HD2	2.15	0.47
14:O:33:VAL:HA	14:O:36:GLN:NE2	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:T:66:LEU:O	19:T:70:VAL:HG13	2.14	0.47
33:CE:256:HIS:HA	33:CE:257:PRO:C	2.39	0.47
35:1:27:C:O2'	35:1:327:A:N3	2.45	0.47
35:1:80:G:H2'	35:1:81:C:H6	1.79	0.47
35:1:565:U:H2'	35:1:566:G:H8	1.80	0.47
35:1:720:A:H5"	51:y:69:ARG:NH2	2.30	0.47
35:1:981:U:HO2'	35:1:982:C:P	2.38	0.47
35:1:1334:U:H1'	41:o:208:SER:HB2	1.96	0.47
35:1:2894:C:OP1	43:q:168:ARG:NH1	2.47	0.47
35:1:3356:G:H2'	35:1:3357:U:C6	2.49	0.47
37:4:85:G:H4'	37:4:86:U:OP1	2.14	0.47
33:k:346:THR:OG1	33:k:347:SER:N	2.47	0.47
38:l:154:THR:O	38:l:157:GLU:HG3	2.14	0.47
38:l:342:LYS:NZ	41:o:56:GLU:OE1	2.47	0.47
39:m:146:LEU:HD13	39:m:163:LEU:HB2	1.96	0.47
44:r:24:ARG:HE	44:r:24:ARG:HB2	1.37	0.47
45:s:21:ILE:HG13	45:s:125:MET:HG2	1.95	0.47
46:t:127:PRO:HG2	46:t:131:LYS:HD2	1.96	0.47
53:0:8:GLN:O	53:0:8:GLN:HG2	2.14	0.47
55:5:40:HIS:O	55:5:42:LYS:HG2	2.15	0.47
35:AR:371:G:O6	80:AR:3645:OHX:N2	2.48	0.47
35:AR:937:G:C6	35:AR:2410:U:H5"	2.49	0.47
35:AR:1641:U:O2'	35:AR:1642:A:H3'	2.15	0.47
35:AR:1722:U:H2'	35:AR:1723:A:O4'	2.15	0.47
35:AR:1770:G:H5'	35:AR:1771:C:OP2	2.14	0.47
35:AR:2217:U:H2'	35:AR:2218:G:H8	1.79	0.47
37:AT:69:U:H2'	37:AT:70:G:O4'	2.15	0.47
42:CJ:128:LYS:HD2	42:CJ:129:PRO:CD	2.43	0.47
44:CL:19:LYS:HB2	44:CL:26:VAL:HG21	1.95	0.47
45:CM:102:PHE:C	45:CM:102:PHE:CD1	2.92	0.47
52:CT:127:SER:HA	52:CT:132:PHE:HD2	1.80	0.47
62:DK:35:ASN:CA	62:DK:38:LYS:HE2	2.43	0.47
64:DM:8:ILE:O	64:DM:12:LEU:HD22	2.14	0.47
66:DO:122:ARG:HG2	66:DO:123:PRO:CD	2.44	0.47
68:DQ:15:LYS:CA	68:DQ:18:ARG:HG3	2.40	0.47
71:p0:50:VAL:O	71:p0:87:VAL:HA	2.14	0.47
70:sM:77:THR:HG22	1:sR:1460:A:H61	1.79	0.47
79:h:153:GLN:HE21	79:h:201:THR:HA	1.79	0.47
1:sR:330:G:O2'	10:s8:33:PRO:HB3	2.14	0.47
1:sR:521:A:H2'	1:sR:522:U:C6	2.50	0.47
1:sR:946:U:H2'	1:sR:947:U:O4'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1402:G:OP2	18:c7:5:ARG:NH1	2.44	0.47
1:sR:1459:C:O4'	16:c5:126:VAL:HG21	2.15	0.47
79:Rb:228:LYS:O	5:s3:222:VAL:HG21	2.15	0.47
3:s1:134:VAL:HG22	3:s1:219:LYS:HB3	1.96	0.47
4:s2:60:SER:OG	22:d1:15:ARG:NH2	2.46	0.47
6:s4:54:TYR:O	25:d4:15:ASN:ND2	2.47	0.47
7:s5:82:PHE:CE2	75:d8:49:ARG:HD2	2.49	0.47
7:s5:95:ASN:OD1	7:s5:107:LYS:NZ	2.28	0.47
7:s5:167:ARG:O	7:s5:171:ALA:HB2	2.14	0.47
8:s6:58:LYS:HA	8:s6:107:ALA:HB2	1.96	0.47
9:s7:23:ALA:HA	9:s7:26:GLU:HB3	1.96	0.47
16:c5:123:TYR:HE1	19:c8:122:HIS:HE1	1.62	0.47
17:c6:47:LYS:NZ	17:c6:114:ARG:HD2	2.30	0.47
17:c6:69:VAL:HB	17:c6:77:GLN:HG2	1.95	0.47
22:d1:36:VAL:HG11	22:d1:78:LEU:HD13	1.96	0.47
72:d5:88:ILE:C	72:d5:104:ALA:HB2	2.39	0.47
73:d6:10:ARG:CB	73:d6:34:LYS:HA	2.43	0.47
78:e1:112:GLY:O	78:e1:113:LYS:HG3	2.14	0.47
1:A:249:U:H3'	1:A:250:C:H5'	1.96	0.47
1:A:417:A:H5'	1:A:418:G:C4	2.48	0.47
1:A:631:G:H2'	1:A:632:U:H6	1.78	0.47
1:A:850:A:H5'	52:z:165:LYS:HD2	1.96	0.47
3:C:61:LEU:O	3:C:64:ARG:NE	2.48	0.47
3:C:120:LEU:HD23	3:C:121:ILE:N	2.29	0.47
3:C:222:LYS:HD2	3:C:222:LYS:HA	1.83	0.47
4:D:161:LYS:HG3	4:D:166:THR:HG22	1.96	0.47
6:F:185:GLY:H	6:F:189:LEU:HB2	1.80	0.47
11:K:6:ARG:HD3	11:K:6:ARG:H	1.79	0.47
13:M:20:PHE:HD1	13:M:21:ASN:N	2.13	0.47
14:O:20:ARG:HG3	23:X:56:HIS:ND1	2.30	0.47
14:O:99:ARG:CZ	14:O:143:SER:HB3	2.44	0.47
18:S:108:ASP:HA	18:S:111:LYS:HG2	1.96	0.47
19:T:110:ARG:HH11	19:T:114:GLU:HG2	1.80	0.47
27:DA:71:SER:N	27:DA:81:GLN:O	2.47	0.47
27:DA:82:VAL:HB	27:DA:85:VAL:CG2	2.44	0.47
26:DB:54:THR:O	26:DB:57:HIS:HB2	2.14	0.47
26:DB:60:LYS:C	26:DB:62:VAL:N	2.72	0.47
31:CD:131:GLY:H	31:CD:169:ILE:HB	1.79	0.47
35:1:126:U:H5"	48:v:144:ARG:HH11	1.79	0.47
35:1:887:G:H2'	35:1:888:A:C8	2.49	0.47
35:1:1111:U:H5"	46:t:5:LYS:HE2	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1580:A:OP2	35:1:2522:G:N1	2.48	0.47
35:1:1656:A:H4'	35:1:1657:C:O5'	2.14	0.47
35:1:1927:G:N7	69:AQ:16:VAL:HG22	2.30	0.47
35:1:2117:A:C8	35:1:3064:U:H1'	2.49	0.47
37:4:149:A:H2'	37:4:150:G:C8	2.49	0.47
33:k:348:ARG:O	33:k:348:ARG:HG3	2.14	0.47
38:l:135:VAL:HA	38:l:245:GLY:O	2.15	0.47
39:m:267:ALA:O	39:m:271:LYS:HG2	2.14	0.47
43:q:90:MET:HB2	43:q:144:ILE:HG22	1.97	0.47
47:u:17:VAL:HG22	47:u:36:VAL:O	2.14	0.47
48:v:75:VAL:O	48:v:76:PRO:C	2.55	0.47
48:v:119:TYR:HE1	48:v:133:ILE:HD11	1.80	0.47
52:z:114:LYS:O	52:z:146:LYS:NZ	2.46	0.47
56:6:13:ILE:HG23	56:6:53:SER:OG	2.14	0.47
35:AR:128:G:H2'	35:AR:129:U:O4'	2.15	0.47
35:AR:186:U:OP2	80:AR:3411:OHX:N6	2.48	0.47
35:AR:630:A:H2'	35:AR:631:U:C6	2.50	0.47
35:AR:1033:U:H2'	35:AR:1034:U:O4'	2.15	0.47
35:AR:1659:U:H2'	35:AR:1660:C:H6	1.78	0.47
35:AR:1719:G:N7	52:CT:121:HIS:HE1	2.11	0.47
35:AR:1746:U:O2'	64:DM:4:GLU:OE1	2.30	0.47
35:AR:2111:G:O2'	57:CY:44:LYS:NZ	2.46	0.47
35:AR:2235:C:C2	35:AR:2236:G:C8	3.01	0.47
37:AT:56:G:H2'	37:AT:57:C:C6	2.49	0.47
38:CF:295:ILE:CD1	51:CS:129:VAL:HA	2.38	0.47
39:CG:34:LYS:HA	54:CV:27:LEU:HD11	1.97	0.47
39:CG:40:HIS:CE1	39:CG:42:ALA:HB3	2.49	0.47
41:CI:191:VAL:O	41:CI:191:VAL:HG23	2.15	0.47
42:CJ:134:TYR:CD2	42:CJ:190:VAL:HG11	2.49	0.47
46:CN:57:VAL:HG12	46:CN:112:ASN:OD1	2.14	0.47
47:CO:41:GLN:O	47:CO:41:GLN:HG3	2.12	0.47
59:DH:37:THR:HG23	59:DH:40:ASP:H	1.79	0.47
64:DM:11:PHE:O	64:DM:15:THR:HG23	2.14	0.47
77:f:49:LEU:C	77:f:49:LEU:HD22	2.34	0.47
79:h:316:MET:SD	79:h:317:THR:N	2.87	0.47
1:sR:470:A:OP2	80:sR:1959:OHX:N1	2.47	0.47
1:sR:725:U:H2'	1:sR:726:C:H6	1.78	0.47
1:sR:811:A:C6	9:s7:110:GLN:HG3	2.49	0.47
1:sR:1227:A:N6	1:sR:1256:A:H2'	2.29	0.47
7:s5:107:LYS:O	7:s5:111:VAL:HG23	2.13	0.47
7:s5:111:VAL:HA	7:s5:114:ILE:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:s5:200:ASN:HB3	7:s5:208:SER:HB3	1.96	0.47
7:s5:225:ARG:HD3	75:d8:61:ARG:NH2	2.30	0.47
8:s6:191:ARG:O	8:s6:191:ARG:HG3	2.14	0.47
11:s9:182:GLU:O	11:s9:186:GLU:HG3	2.14	0.47
15:c4:111:ARG:NH2	73:d6:57:SER:O	2.36	0.47
22:d1:1:MET:HG2	22:d1:9:VAL:HG23	1.96	0.47
23:d2:24:GLN:N	23:d2:24:GLN:OE1	2.48	0.47
75:d8:40:ILE:HG13	75:d8:41:VAL:H	1.79	0.47
1:A:756:A:H1'	6:F:12:LEU:O	2.15	0.47
1:A:932:U:P	3:C:155:TYR:OH	2.72	0.47
3:C:38:PHE:CG	3:C:73:LEU:HD11	2.49	0.47
4:D:73:LEU:HD13	4:D:75:GLY:H	1.80	0.47
8:H:151:ASP:OD1	8:H:151:ASP:N	2.47	0.47
9:I:153:LEU:HD13	9:I:184:GLU:HB3	1.96	0.47
19:T:36:LYS:HB3	19:T:105:VAL:CG1	2.44	0.47
25:Z:131:ARG:CZ	25:Z:131:ARG:HB3	2.44	0.47
26:AA:22:LYS:NZ	26:AA:132:SER:O	2.36	0.47
27:DA:58:VAL:HG12	27:DA:64:LYS:HA	1.97	0.47
35:1:347:G:O6	63:AK:55:ARG:NH1	2.48	0.47
35:1:1247:U:H2'	35:1:1268:G:O6	2.15	0.47
35:1:1750:A:H1'	35:1:1752:A:N7	2.30	0.47
35:1:1939:G:OP1	52:z:77:GLY:HA3	2.15	0.47
35:1:2393:G:H4'	33:k:252:ILE:HD13	1.96	0.47
35:1:2890:A:H61	35:1:2913:C:H42	1.63	0.47
36:3:20:A:H2'	36:3:21:G:H8	1.79	0.47
38:l:20:LEU:HD13	38:l:256:THR:HG23	1.97	0.47
38:l:64:SER:OG	38:l:73:ARG:O	2.27	0.47
42:p:75:ILE:HD11	48:v:18:VAL:HG23	1.96	0.47
49:w:12:LYS:HD3	49:w:37:ARG:NH2	2.29	0.47
49:w:111:PRO:HD2	49:w:112:TYR:CE2	2.50	0.47
54:2:68:THR:OG1	54:2:69:LYS:N	2.47	0.47
57:7:2:LYS:HG3	57:7:3:VAL:N	2.29	0.47
60:AH:98:GLN:O	60:AH:101:VAL:HG22	2.14	0.47
61:AI:102:GLU:OE1	61:AI:102:GLU:N	2.24	0.47
35:AR:74:G:H5"	46:CN:104:ARG:HD2	1.95	0.47
35:AR:90:C:H2'	35:AR:91:G:H5'	1.95	0.47
35:AR:113:C:OP1	48:CP:147:ARG:NE	2.38	0.47
35:AR:1027:A:N7	35:AR:1029:G:C2	2.82	0.47
35:AR:1706:C:H2'	35:AR:1707:A:O4'	2.15	0.47
35:AR:2320:A:H2	69:DR:16:VAL:HG22	1.79	0.47
40:CH:174:LEU:HD22	47:CO:117:ARG:CZ	2.43	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CT:46:LYS:CE	52:CT:47:ASN:HB3	2.45	0.47
54:CV:45:ASN:OD1	54:CV:47:SER:OG	2.17	0.47
75:d:27:GLN:HG2	75:d:43:ASN:HD21	1.78	0.47
75:d:64:ARG:HA	75:d:64:ARG:NH1	2.29	0.47
79:h:178:VAL:HG13	79:h:192:PHE:CB	2.42	0.47
79:h:299:GLN:HE21	79:h:315:VAL:CG2	2.27	0.47
1:sR:205:U:C2	1:sR:206:A:C8	3.02	0.47
1:sR:241:U:H2'	1:sR:242:U:H5	1.77	0.47
1:sR:258:C:O4'	10:s8:64:ASN:ND2	2.33	0.47
1:sR:1146:G:H2'	1:sR:1147:A:H8	1.79	0.47
1:sR:1280:C:H2'	1:sR:1281:G:H8	1.80	0.47
1:sR:1679:G:O6	80:sR:2185:OHX:N4	2.47	0.47
79:Rb:126:SER:OG	79:Rb:127:ARG:N	2.46	0.47
79:Rb:201:THR:HB	79:Rb:242:SER:HA	1.96	0.47
3:s1:103:MET:HE2	3:s1:215:VAL:HG12	1.97	0.47
5:s3:32:GLU:N	5:s3:32:GLU:OE2	2.47	0.47
5:s3:34:TYR:HE1	5:s3:36:GLY:C	2.23	0.47
6:s4:184:THR:O	6:s4:184:THR:OG1	2.33	0.47
7:s5:136:ALA:HA	7:s5:202:ALA:CA	2.37	0.47
7:s5:137:ILE:HA	7:s5:140:THR:CG2	2.43	0.47
8:s6:7:TYR:CD2	8:s6:125:THR:HA	2.50	0.47
10:s8:25:ARG:HD3	10:s8:27:PHE:HE2	1.78	0.47
11:s9:128:LEU:HD22	11:s9:134:ILE:HD11	1.96	0.47
19:c8:2:SER:O	19:c8:2:SER:OG	2.31	0.47
23:d2:17:ALA:HB2	23:d2:25:VAL:CG1	2.45	0.47
25:d4:72:PHE:HD1	25:d4:73:GLY:N	2.12	0.47
74:d7:80:ARG:HD3	74:d7:82:LYS:HE2	1.96	0.47
1:A:187:G:OP2	10:J:142:LYS:NZ	2.48	0.47
1:A:319:U:H5'	1:A:320:U:H5	1.78	0.47
1:A:736:C:H5'	1:A:737:A:OP2	2.15	0.47
1:A:765:G:C6	11:K:149:ARG:HG2	2.50	0.47
1:A:1234:A:C8	1:A:1245:G:C8	3.03	0.47
1:A:1323:C:H2'	1:A:1324:G:O4'	2.14	0.47
1:A:1359:C:H5"	20:U:134:ARG:NE	2.21	0.47
1:A:1483:A:H4'	17:R:71:GLY:HA2	1.97	0.47
1:A:1596:C:P	76:e:19:ARG:HH12	2.37	0.47
1:A:1642:G:H2'	1:A:1643:U:H6	1.80	0.47
3:C:137:ILE:HD13	3:C:172:LEU:CD2	2.45	0.47
4:D:82:ASN:HB2	4:D:207:LEU:HD23	1.96	0.47
4:D:101:VAL:HG23	4:D:115:ILE:HG22	1.96	0.47
4:D:175:GLY:O	11:K:53:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:193:ALA:HA	5:E:200:LYS:HB3	1.97	0.47
6:F:95:THR:HG22	25:Z:16:PRO:CG	2.44	0.47
6:F:183:VAL:HG12	6:F:189:LEU:HA	1.97	0.47
7:G:94:THR:HA	7:G:97:LEU:HD13	1.95	0.47
7:G:134:VAL:O	7:G:137:ILE:HG13	2.14	0.47
8:H:176:GLN:HG3	8:H:177:ARG:N	2.29	0.47
9:I:43:PHE:CZ	9:I:46:ILE:HG12	2.50	0.47
9:I:126:LEU:HA	9:I:129:LEU:HB2	1.95	0.47
11:K:83:VAL:HG21	11:K:147:MET:HG3	1.97	0.47
11:K:156:ILE:HG22	11:K:156:ILE:O	2.14	0.47
12:L:10:LYS:CE	12:L:36:ASP:HB3	2.45	0.47
14:O:47:PRO:CG	14:O:72:MET:HE2	2.44	0.47
14:O:91:LEU:HB3	14:O:122:ILE:HG12	1.96	0.47
20:U:86:ARG:HH11	20:U:86:ARG:HG3	1.79	0.47
22:W:74:GLN:CD	22:W:82:VAL:HG12	2.39	0.47
23:X:105:THR:OG1	23:X:126:LEU:HG	2.15	0.47
26:AA:88:ASP:HB3	26:AA:121:ARG:NH2	2.29	0.47
26:DB:51:LEU:HG	26:DB:65:ARG:HB3	1.97	0.47
29:AC:33:LYS:HE3	54:2:88:ARG:HD2	1.96	0.47
28:DC:45:MET:O	28:DC:49:HIS:HB2	2.15	0.47
28:DC:104:THR:OG1	28:DC:126:LYS:O	2.29	0.47
31:CD:29:LEU:HA	31:CD:76:PHE:CE1	2.42	0.47
31:CD:36:GLU:OE1	31:CD:163:ARG:NH1	2.41	0.47
31:CD:67:TYR:C	31:CD:68:LYS:HG3	2.40	0.47
32:AE:31:ARG:NH2	32:AE:35:GLU:OE1	2.47	0.47
32:AE:60:TRP:CZ3	32:AE:64:VAL:HG12	2.44	0.47
33:CE:7:GLU:HG2	35:AR:2915:U:C5	2.50	0.47
33:CE:102:LEU:O	35:AR:3147:G:H4'	2.15	0.47
33:CE:284:ARG:NH1	33:CE:293:ASN:O	2.45	0.47
30:DE:21:GLY:HA3	30:DE:94:GLU:O	2.14	0.47
35:1:7:C:H2'	35:1:8:C:C6	2.50	0.47
35:1:22:G:H1'	37:4:104:A:N3	2.29	0.47
35:1:289:A:H2	48:v:93:LYS:HD3	1.80	0.47
35:1:388:G:H4'	50:x:18:ARG:O	2.15	0.47
35:1:547:G:H1'	35:1:548:G:C8	2.50	0.47
35:1:599:C:OP1	38:l:332:LYS:NZ	2.25	0.47
35:1:608:A:N6	40:n:22:ARG:HD3	2.29	0.47
35:1:653:A:O4'	35:1:2360:C:H2'	2.14	0.47
35:1:790:U:H4'	38:l:112:LYS:O	2.14	0.47
35:1:905:U:O2'	35:1:910:G:O3'	2.29	0.47
35:1:1314:C:H5'	49:w:17:GLY:HA3	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1662:G:H22	35:1:1787:A:H2	1.62	0.47
35:1:1662:G:H2'	35:1:1663:C:H6	1.79	0.47
35:1:1744:G:H2'	35:1:1745:C:C6	2.49	0.47
35:1:1831:U:O2'	37:4:114:G:OP1	2.20	0.47
35:1:2766:U:H2'	35:1:2767:U:C6	2.50	0.47
35:1:3112:G:O6	35:1:3120:C:H5"	2.15	0.47
35:1:3369:G:C6	33:k:380:MET:HG2	2.50	0.47
37:4:6:U:C2	37:4:7:U:C5	3.03	0.47
37:4:7:U:H2'	37:4:8:C:H6	1.79	0.47
37:4:74:U:P	27:9:76:LEU:HD12	2.54	0.47
37:4:91:C:H2'	37:4:92:A:H8	1.80	0.47
31:j:127:ALA:HB2	31:j:134:VAL:HG13	1.96	0.47
31:j:136:ILE:HA	31:j:148:VAL:HG12	1.96	0.47
33:k:186:GLY:O	33:k:191:LYS:HE2	2.15	0.47
38:l:131:VAL:O	38:l:135:VAL:HG23	2.15	0.47
38:l:140:HIS:NE2	38:l:246:ARG:HD2	2.29	0.47
39:m:129:TYR:CD1	39:m:177:GLU:HB3	2.50	0.47
41:o:89:ILE:HG23	41:o:219:LYS:HE3	1.97	0.47
42:p:75:ILE:CD1	48:v:18:VAL:HG23	2.45	0.47
43:q:72:LYS:HE3	43:q:76:ASP:OD2	2.15	0.47
44:r:30:LYS:O	44:r:30:LYS:HG3	2.14	0.47
44:r:56:GLU:C	44:r:131:ILE:HG12	2.40	0.47
45:s:90:GLN:HG2	45:s:170:ASP:OD2	2.15	0.47
48:v:97:SER:OG	48:v:98:LEU:N	2.47	0.47
51:y:66:ARG:HH22	51:y:143:PRO:HG3	1.79	0.47
66:AN:92:ASP:O	66:AN:93:LYS:HG2	2.14	0.47
68:AP:10:THR:CG2	68:AP:23:HIS:CE1	2.98	0.47
68:AP:26:THR:HB	68:AP:71:ARG:HB3	1.96	0.47
35:AR:25:U:O4	80:AR:3408:OHX:N1	2.47	0.47
35:AR:75:G:O4'	46:CN:61:PRO:HG3	2.14	0.47
35:AR:76:G:OP1	46:CN:70:ARG:NH1	2.43	0.47
35:AR:159:A:H2'	35:AR:160:G:C8	2.50	0.47
35:AR:251:G:H4'	35:AR:252:U:OP1	2.15	0.47
35:AR:563:U:H2'	35:AR:564:G:H8	1.78	0.47
35:AR:631:U:H2'	35:AR:632:G:C8	2.49	0.47
35:AR:665:A:H1'	46:CN:14:PHE:CE2	2.49	0.47
35:AR:789:A:H2'	35:AR:790:U:H6	1.79	0.47
35:AR:799:G:O2'	46:CN:18:TRP:NE1	2.43	0.47
35:AR:1034:U:H2'	35:AR:1035:G:H8	1.80	0.47
35:AR:1157:G:H2'	35:AR:1158:A:O4'	2.14	0.47
35:AR:1230:G:H4'	71:p0:33:VAL:O	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1662:G:H2'	35:AR:1663:C:H6	1.80	0.47
35:AR:1783:U:H2'	35:AR:1784:G:C8	2.50	0.47
35:AR:2689:A:N3	35:AR:2689:A:H2'	2.29	0.47
35:AR:3180:A:H5'	49:CQ:116:LYS:HB2	1.97	0.47
38:CF:205:PRO:HB3	38:CF:247:PHE:CD2	2.49	0.47
40:CH:130:ILE:HD12	40:CH:130:ILE:H	1.79	0.47
41:CI:96:PRO:HG2	41:CI:99:PRO:CG	2.44	0.47
41:CI:160:ARG:HB2	41:CI:203:TRP:CD2	2.50	0.47
45:CM:160:VAL:HB	45:CM:171:VAL:HG11	1.96	0.47
45:CM:166:LYS:HB3	45:CM:167:TYR:CD1	2.50	0.47
46:CN:60:ALA:HA	46:CN:61:PRO:HD3	1.67	0.47
46:CN:77:LEU:HA	46:CN:80:VAL:HG12	1.96	0.47
50:CR:25:SER:O	50:CR:29:THR:HG23	2.15	0.47
50:CR:131:ARG:HH11	50:CR:137:ASN:HD22	1.63	0.47
52:CT:116:ASP:OD1	52:CT:118:HIS:N	2.48	0.47
53:CU:78:TRP:CE3	53:CU:125:LYS:HG2	2.49	0.47
53:CU:151:PRO:C	53:CU:153:PRO:HD3	2.40	0.47
56:CX:36:ILE:HG12	56:CX:58:VAL:HG21	1.96	0.47
59:DH:64:ILE:C	59:DH:64:ILE:HD12	2.39	0.47
60:DI:42:PRO:HB2	60:DI:51:LEU:HD21	1.97	0.47
61:DJ:19:SER:O	61:DJ:22:VAL:HG22	2.14	0.47
71:p0:36:GLN:NE2	71:p0:40:GLU:OE2	2.48	0.47
71:p0:37:GLN:OE1	71:p0:184:GLY:HA2	2.14	0.47
72:a:78:ILE:HD12	72:a:78:ILE:HA	1.66	0.47
73:b:10:ARG:HB2	73:b:34:LYS:HA	1.96	0.47
78:g:120:GLU:HA	78:g:131:PHE:HA	1.96	0.47
79:h:83:ALA:HB1	79:h:110:VAL:CG2	2.45	0.47
79:h:114:ASP:CB	79:h:123:ILE:HD11	2.45	0.47
79:h:248:ASN:OD1	79:h:298:GLY:HA3	2.15	0.47
79:h:302:PHE:CD1	79:h:312:VAL:HG11	2.46	0.47
1:sR:30:G:H2'	1:sR:31:C:H6	1.80	0.47
1:sR:68:A:H3'	1:sR:68:A:N3	2.30	0.47
1:sR:138:A:N3	1:sR:138:A:H5"	2.28	0.47
1:sR:156:A:H2'	1:sR:157:A:O4'	2.15	0.47
1:sR:169:A:C4	1:sR:171:A:C8	3.03	0.47
1:sR:336:G:OP1	13:c1:129:ARG:NH2	2.48	0.47
1:sR:341:A:H2'	1:sR:342:C:C6	2.50	0.47
1:sR:496:G:O6	1:sR:497:G:N2	2.47	0.47
1:sR:780:A:N3	25:d4:8:ARG:HB3	2.30	0.47
1:sR:817:A:O4'	9:s7:110:GLN:NE2	2.47	0.47
1:sR:831:U:HO2'	1:sR:832:U:H6	1.63	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1048:G:O6	80:sR:1909:OHX:N2	2.47	0.47
1:sR:1514:U:H1'	5:s3:6:SER:CA	2.44	0.47
1:sR:1615:C:H2'	7:s5:81:ARG:CG	2.38	0.47
79:Rb:42:LEU:O	79:Rb:61:PHE:HD1	1.97	0.47
79:Rb:118:LYS:HG3	79:Rb:120:SER:OG	2.14	0.47
2:s0:48:ILE:HD11	2:s0:161:PRO:HB2	1.97	0.47
4:s2:53:ILE:HA	4:s2:72:LEU:HD23	1.96	0.47
4:s2:199:GLN:O	4:s2:199:GLN:HG3	2.13	0.47
7:s5:80:LYS:HD2	7:s5:80:LYS:HA	1.67	0.47
7:s5:159:ALA:O	75:d8:61:ARG:NH2	2.44	0.47
8:s6:64:LYS:HE2	8:s6:82:SER:HB2	1.96	0.47
9:s7:12:ALA:HB3	9:s7:13:PRO:HD3	1.96	0.47
13:c1:69:LYS:HD3	13:c1:71:LEU:HD21	1.95	0.47
14:c3:13:SER:OG	14:c3:14:SER:N	2.48	0.47
14:c3:40:TYR:HB3	14:c3:45:LEU:HD12	1.96	0.47
15:c4:26:THR:OG1	15:c4:97:GLY:HA3	2.14	0.47
16:c5:51:SER:HB2	16:c5:53:PRO:HD3	1.96	0.47
18:c7:79:GLU:O	18:c7:83:GLN:OE1	2.33	0.47
20:c9:15:ILE:HD11	20:c9:63:ARG:HH11	1.80	0.47
21:d0:51:VAL:CG2	21:d0:93:LEU:HG	2.45	0.47
22:d1:68:SER:HA	22:d1:71:ARG:HB3	1.97	0.47
75:d8:58:GLU:CB	75:d8:61:ARG:HB2	2.35	0.47
1:A:487:G:H1	1:A:500:C:N4	2.10	0.47
1:A:654:C:H3'	1:A:655:G:H5"	1.97	0.47
1:A:918:U:H2'	1:A:919:A:H8	1.80	0.47
2:B:38:PHE:HD1	2:B:49:ASN:ND2	2.12	0.47
3:C:144:ARG:HD2	3:C:145:LYS:N	2.29	0.47
5:E:41:VAL:HG11	21:V:112:VAL:H	1.80	0.47
6:F:45:ILE:O	6:F:49:ARG:HB2	2.15	0.47
7:G:146:THR:HG22	7:G:221:ALA:HA	1.95	0.47
7:G:161:ASP:OD1	75:d:42:ARG:NE	2.47	0.47
10:J:46:VAL:HG22	10:J:54:LYS:HB3	1.97	0.47
11:K:65:LYS:HE2	11:K:65:LYS:N	2.30	0.47
17:R:30:LYS:HB3	17:R:35:PRO:HA	1.96	0.47
22:W:46:ILE:H	22:W:46:ILE:HD12	1.79	0.47
23:X:3:ARG:HB3	23:X:3:ARG:NH1	2.29	0.47
23:X:94:LEU:HD23	23:X:94:LEU:HA	1.78	0.47
28:AB:45:MET:O	28:AB:49:HIS:N	2.47	0.47
28:AB:117:ARG:NH2	35:1:716:A:O2'	2.47	0.47
28:DC:42:ARG:NH2	35:AR:2800:G:O6	2.48	0.47
28:DC:138:ILE:HD11	28:DC:145:VAL:HG12	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:CE:277:SER:OG	33:CE:280:HIS:NE2	2.42	0.47
35:1:51:A:C4	35:1:52:A:C8	3.02	0.47
35:1:114:A:H2'	35:1:115:A:O4'	2.15	0.47
35:1:926:A:H2'	35:1:927:C:C6	2.50	0.47
35:1:2663:G:H5"	39:m:152:ARG:CD	2.45	0.47
36:3:44:C:OP2	45:s:137:ARG:NH2	2.39	0.47
31:j:202:VAL:HG22	31:j:217:GLN:HG2	1.97	0.47
31:j:206:PRO:HD3	31:j:213:GLY:CA	2.45	0.47
38:l:9:HIS:NE2	38:l:15:ALA:HB2	2.30	0.47
41:o:132:PRO:HA	41:o:229:PHE:CD1	2.49	0.47
44:r:66:GLU:CD	44:r:69:ARG:HH21	2.22	0.47
47:u:40:ASP:OD1	47:u:43:LYS:N	2.43	0.47
53:0:139:TYR:HD1	53:0:140:VAL:HG23	1.79	0.47
54:2:115:LYS:N	54:2:115:LYS:HD2	2.30	0.47
56:6:86:ARG:HA	56:6:91:VAL:O	2.15	0.47
60:AH:29:ILE:HD11	60:AH:31:ARG:NH2	2.29	0.47
62:AJ:25:LYS:HB3	62:AJ:25:LYS:HE2	1.58	0.47
62:AJ:62:ARG:HA	62:AJ:62:ARG:HD2	1.47	0.47
63:AK:24:ARG:HD3	63:AK:26:SER:OG	2.15	0.47
63:AK:67:LEU:O	63:AK:70:VAL:HG22	2.14	0.47
35:AR:542:G:O6	35:AR:550:A:N6	2.48	0.47
35:AR:1666:G:H2'	35:AR:1667:A:C8	2.49	0.47
35:AR:2393:G:O2'	35:AR:2394:G:OP2	2.29	0.47
35:AR:3312:U:OP1	80:AR:3522:OHX:N2	2.48	0.47
35:AR:3383:G:H2'	35:AR:3384:U:H6	1.80	0.47
36:AS:119:U:OP1	39:CG:256:THR:HG23	2.15	0.47
40:CH:108:LYS:O	40:CH:109:GLU:HB2	2.15	0.47
55:CW:94:ARG:HG3	55:CW:108:TYR:OH	2.14	0.47
56:CX:109:MET:CE	56:CX:132:ASN:HB2	2.45	0.47
58:CZ:95:ILE:O	58:CZ:99:VAL:HG23	2.15	0.47
1:sR:5:U:H2'	1:sR:6:G:H8	1.79	0.47
1:sR:477:A:H5'	77:e0:34:ALA:CB	2.45	0.47
1:sR:1207:C:H4'	1:sR:1208:A:OP1	2.14	0.47
1:sR:1332:C:H4'	5:s3:203:PRO:HB3	1.97	0.47
1:sR:1471:A:C2	1:sR:1474:G:N3	2.83	0.47
1:sR:1649:G:H2'	1:sR:1650:U:C6	2.49	0.47
79:Rb:74:THR:OG1	79:Rb:76:ASP:OD1	2.23	0.47
79:Rb:134:TRP:CZ3	79:Rb:140:CYS:HB3	2.50	0.47
79:Rb:260:ILE:CD1	79:Rb:274:LEU:HB3	2.44	0.47
2:s0:36:TYR:HB3	2:s0:48:ILE:HD11	1.96	0.47
8:s6:189:HIS:ND1	8:s6:193:LEU:HD11	2.30	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:s8:4:SER:HB2	10:s8:24:LYS:HE2	1.96	0.47
10:s8:10:LYS:HE3	10:s8:10:LYS:HB3	1.75	0.47
13:c1:67:ARG:NH2	13:c1:129:ARG:H	2.13	0.47
17:c6:42:GLU:O	17:c6:42:GLU:HG3	2.14	0.47
19:c8:23:ASP:OD1	19:c8:23:ASP:C	2.58	0.47
20:c9:72:GLY:O	20:c9:76:LEU:HD12	2.15	0.47
24:d3:96:VAL:HA	24:d3:127:VAL:HG21	1.96	0.47
25:d4:86:GLU:HB2	25:d4:91:LEU:HD21	1.97	0.47
75:d8:11:LYS:HA	75:d8:52:ASP:O	2.15	0.47
1:A:1579:U:H2'	1:A:1580:C:C6	2.49	0.47
3:C:30:PHE:HD1	3:C:31:ASP:N	2.09	0.47
9:I:62:VAL:HG11	9:I:70:PHE:HE2	1.79	0.47
11:K:135:ALA:HB2	11:K:140:ILE:HA	1.97	0.47
19:T:118:LYS:NZ	45:s:108:GLU:OE1	2.35	0.47
22:W:25:LYS:HD2	22:W:27:ASP:OD1	2.15	0.47
23:X:81:VAL:O	23:X:122:SER:OG	2.32	0.47
26:AA:55:LYS:HD3	26:AA:56:LYS:N	2.30	0.47
26:DB:99:GLU:OE2	26:DB:99:GLU:N	2.34	0.47
26:DB:110:ALA:O	26:DB:114:VAL:HG13	2.15	0.47
33:CE:132:LYS:HD2	35:AR:3151:U:OP2	2.15	0.47
35:1:510:G:O6	80:1:4151:OHX:N3	2.48	0.47
35:1:1299:U:H2'	35:1:1300:G:O4'	2.15	0.47
35:1:1543:G:P	48:v:35:VAL:HG23	2.55	0.47
35:1:1845:G:H3'	35:1:1846:C:H5'	1.97	0.47
35:1:2424:A:N1	31:j:230:VAL:HG11	2.29	0.47
35:1:2597:U:H2'	35:1:2598:G:H8	1.80	0.47
35:1:2674:A:C6	45:s:124:GLY:HA3	2.49	0.47
37:4:58:G:N7	63:AK:63:ARG:NH2	2.52	0.47
45:s:50:ALA:HB3	45:s:60:ARG:O	2.15	0.47
50:x:172:GLN:O	50:x:176:ILE:HG13	2.15	0.47
68:AP:3:ASN:HA	68:AP:92:GLU:O	2.15	0.47
35:AR:51:A:H2'	35:AR:52:A:H8	1.80	0.47
35:AR:151:A:P	48:CP:147:ARG:HH12	2.38	0.47
35:AR:591:G:N3	40:CH:19:LYS:HG3	2.29	0.47
35:AR:841:A:H4'	52:CT:126:GLU:HA	1.96	0.47
35:AR:1039:U:H2'	35:AR:1040:A:C8	2.50	0.47
35:AR:1103:A:H8	41:CI:158:LYS:HE3	1.79	0.47
35:AR:1119:C:H2'	35:AR:1120:A:C8	2.46	0.47
35:AR:1232:C:O2'	71:p0:36:GLN:HB2	2.15	0.47
35:AR:1714:A:C5	35:AR:1728:G:C6	3.03	0.47
35:AR:3212:C:OP2	47:CO:124:ARG:NH1	2.48	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CF:16:THR:HG22	38:CF:18:ASN:H	1.80	0.47
47:CO:36:VAL:HG21	47:CO:47:ASP:HB2	1.96	0.47
52:CT:68:GLN:OE1	52:CT:71:ARG:NH1	2.48	0.47
52:CT:143:ILE:HG13	52:CT:144:GLN:N	2.30	0.47
58:CZ:66:PRO:HA	58:CZ:84:PHE:HD1	1.80	0.47
78:g:141:CYS:SG	78:g:144:CYS:HB2	2.55	0.47
79:h:21:THR:OG1	79:h:69:GLN:HA	2.15	0.47
79:h:124:SER:O	79:h:131:ILE:HA	2.14	0.47
1:sR:382:C:P	6:s4:10:LYS:HD2	2.55	0.47
1:sR:565:C:C2	80:sR:2010:OHX:N4	2.82	0.47
1:sR:823:G:C5	1:sR:824:G:C8	3.03	0.47
1:sR:1062:A:H5”	1:sR:1063:U:H5	1.77	0.47
1:sR:1370:U:H4’	1:sR:1371:A:H4’	1.97	0.47
1:sR:1696:G:O2’	1:sR:1698:G:N7	2.48	0.47
2:s0:38:PHE:HD2	2:s0:49:ASN:HD22	1.63	0.47
4:s2:133:LYS:HA	4:s2:136:VAL:HG23	1.97	0.47
5:s3:52:ALA:O	5:s3:55:THR:HG23	2.14	0.47
11:s9:163:PRO:CB	11:s9:170:GLY:H	2.23	0.47
13:c1:27:THR:OG1	13:c1:30:ARG:HA	2.15	0.47
13:c1:55:ASP:OD2	13:c1:113:PRO:HD3	2.15	0.47
18:c7:34:LEU:HD23	18:c7:34:LEU:O	2.15	0.47
20:c9:109:GLU:C	20:c9:111:ILE:H	2.22	0.47
75:d8:42:ARG:HH22	75:d8:61:ARG:HB3	1.79	0.47
78:e1:136:LYS:HG2	78:e1:137:ASP:H	1.79	0.47
78:e1:139:LEU:H	78:e1:149:LYS:HZ3	1.62	0.47
1:A:452:A:H3’	1:A:453:U:H6	1.80	0.47
1:A:698:U:H2’	1:A:699:U:O4’	2.15	0.47
1:A:1235:C:H5’	78:g:146:SER:CB	2.45	0.47
1:A:1253:U:H4’	78:g:143:LYS:H	1.80	0.47
2:B:143:VAL:O	2:B:157:ASP:HB2	2.14	0.47
9:I:89:HIS:HA	9:I:165:LYS:HZ2	1.80	0.47
9:I:92:PHE:C	9:I:93:LEU:HD23	2.40	0.47
13:M:55:ASP:OD1	13:M:57:LYS:N	2.47	0.47
15:P:107:ARG:HE	73:b:52:ASP:CG	2.23	0.47
18:S:79:GLU:C	18:S:80:ARG:HD2	2.40	0.47
22:W:74:GLN:HE22	22:W:81:ASN:CA	2.28	0.47
22:W:82:VAL:HG13	22:W:83:TRP:N	2.30	0.47
26:DB:121:ARG:CG	26:DB:126:LYS:HB2	2.45	0.47
33:CE:250:ALA:HB1	35:AR:2947:G:N3	2.30	0.47
35:1:1157:G:H2’	35:1:1158:A:O4’	2.15	0.47
35:1:1221:A:H3’	35:1:1222:G:C5’	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1225:A:H2'	35:1:1226:G:H8	1.79	0.47
35:1:1229:G:H2'	35:1:1230:G:C8	2.50	0.47
35:1:1764:U:H3'	35:1:1765:U:H4'	1.98	0.47
35:1:2264:U:OP2	80:1:3492:OHX:N5	2.48	0.47
35:1:2555:G:C5	60:AH:95:ILE:HG21	2.50	0.47
35:1:2563:G:H5"	42:p:27:THR:HG23	1.97	0.47
35:1:2736:A:H4'	54:2:71:SER:OG	2.15	0.47
35:1:2962:U:OP1	80:1:4125:OHX:N3	2.47	0.47
35:1:3348:G:H2'	35:1:3349:C:H6	1.79	0.47
33:k:23:ALA:O	80:k:402:OHX:N2	2.48	0.47
49:w:142:SER:HA	49:w:145:VAL:HG22	1.96	0.47
50:x:67:ILE:HB	50:x:80:LYS:HD2	1.97	0.47
51:y:44:PHE:O	51:y:48:VAL:HG23	2.15	0.47
53:0:24:LEU:O	54:2:148:PRO:HB3	2.15	0.47
27:9:48:LEU:HD21	27:9:122:LYS:HD3	1.97	0.47
35:AR:213:A:N6	35:AR:227:G:H2'	2.30	0.47
35:AR:414:U:H2'	35:AR:415:G:H8	1.80	0.47
35:AR:1259:A:C8	71:p0:53:MET:HB2	2.50	0.47
35:AR:1471:U:H2'	35:AR:1472:U:C6	2.50	0.47
35:AR:1481:A:H2'	35:AR:1481:A:N3	2.30	0.47
35:AR:1502:C:OP1	80:AR:3414:OHX:N3	2.48	0.47
35:AR:2405:C:O2	35:AR:2819:A:N1	2.48	0.47
35:AR:2423:U:H2'	35:AR:2424:A:C8	2.49	0.47
35:AR:3233:C:H2'	35:AR:3234:A:C8	2.49	0.47
35:AR:3276:G:H5'	40:CH:48:ARG:NH2	2.30	0.47
42:CJ:156:ASP:HB3	42:CJ:183:LYS:HG2	1.96	0.47
44:CL:189:GLU:O	44:CL:199:PHE:HA	2.15	0.47
54:CV:17:ARG:HB3	54:CV:22:HIS:NE2	2.29	0.47
32:DF:76:SER:HB2	32:DF:78:LYS:HE2	1.96	0.47
34:DG:40:SER:O	34:DG:44:ARG:HG3	2.15	0.47
79:h:175:ASP:OD1	79:h:175:ASP:N	2.47	0.47
1:sR:454:U:H6	1:sR:454:U:H5"	1.80	0.47
1:sR:697:C:C2	9:s7:105:THR:O	2.68	0.47
1:sR:829:A:H1'	1:sR:830:U:C5	2.50	0.47
1:sR:876:G:O2'	1:sR:944:A:H5'	2.15	0.47
1:sR:1175:U:H2'	1:sR:1176:G:C8	2.50	0.47
1:sR:1695:G:H2'	1:sR:1696:G:O4'	2.14	0.47
79:Rb:307:ASP:O	79:Rb:309:VAL:HG23	2.15	0.47
4:s2:39:THR:HG23	4:s2:42:GLY:N	2.22	0.47
9:s7:110:GLN:HG3	9:s7:110:GLN:O	2.15	0.47
11:s9:77:ILE:O	11:s9:81:VAL:HG13	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c5:79:HIS:CE1	16:c5:97:TYR:CD2	3.03	0.47
18:c7:79:GLU:O	18:c7:82:ASP:HB3	2.15	0.47
19:c8:88:ARG:NH1	19:c8:91:ASP:HB2	2.30	0.47
21:d0:26:LEU:HD23	21:d0:26:LEU:HA	1.63	0.47
21:d0:95:ALA:HB1	21:d0:96:PRO:HD2	1.97	0.47
1:A:288:A:H2'	1:A:289:U:H6	1.76	0.46
1:A:706:A:N1	1:A:734:A:N6	2.62	0.46
1:A:1277:G:O3'	5:E:183:GLY:HA3	2.15	0.46
1:A:1539:G:C2	19:T:30:TYR:HE2	2.33	0.46
2:B:63:ILE:CG2	22:W:36:VAL:HA	2.45	0.46
3:C:195:LYS:HB2	3:C:198:GLU:OE1	2.15	0.46
5:E:164:VAL:CG1	5:E:168:ILE:HG12	2.44	0.46
7:G:197:GLU:OE2	7:G:209:TYR:N	2.48	0.46
8:H:9:VAL:HG23	8:H:10:ASN:OD1	2.15	0.46
8:H:22:HIS:CE1	33:k:297:SER:O	2.67	0.46
10:J:152:ILE:HG13	10:J:153:GLU:N	2.30	0.46
10:J:190:ALA:O	10:J:193:LEU:HG	2.14	0.46
11:K:96:VAL:O	11:K:99:LEU:HD12	2.15	0.46
13:M:67:ARG:HD3	13:M:67:ARG:H	1.80	0.46
14:O:4:MET:HG3	14:O:5:HIS:H	1.80	0.46
16:Q:37:ALA:O	16:Q:42:ARG:HD3	2.15	0.46
19:T:76:PRO:O	19:T:81:ILE:HB	2.15	0.46
19:T:88:ARG:NH1	19:T:91:ASP:HB2	2.26	0.46
19:T:123:ARG:HB2	19:T:133:VAL:CG2	2.41	0.46
20:U:6:VAL:O	20:U:9:VAL:HG22	2.15	0.46
20:U:52:GLY:C	20:U:54:PHE:H	2.21	0.46
23:X:102:VAL:HG13	23:X:113:HIS:HB3	1.96	0.46
24:Y:84:THR:HG23	24:Y:120:VAL:HG12	1.98	0.46
31:CD:27:ALA:O	31:CD:128:ARG:NH2	2.48	0.46
29:DD:41:ARG:HD3	35:AR:775:A:H5"	1.97	0.46
33:CE:308:MET:HE3	35:AR:3329:U:H5"	1.96	0.46
35:1:508:U:H2'	35:1:509:U:C6	2.50	0.46
35:1:1593:A:H4'	60:AH:60:ARG:HG2	1.96	0.46
35:1:1662:G:H2'	35:1:1663:C:C6	2.50	0.46
35:1:3131:U:H2'	35:1:3132:C:H6	1.79	0.46
38:l:291:ASN:HA	38:l:296:GLN:HE21	1.80	0.46
39:m:60:ILE:HB	39:m:80:SER:HB3	1.96	0.46
42:p:78:PHE:C	42:p:80:TYR:H	2.22	0.46
42:p:144:GLU:OE1	62:AJ:36:ARG:NH1	2.48	0.46
46:t:76:THR:O	46:t:78:ALA:N	2.48	0.46
49:w:62:THR:HB	49:w:65:ASN:O	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:8:80:ASN:OD1	58:8:126:LEU:HB2	2.14	0.46
62:AJ:91:ASN:O	62:AJ:94:ILE:HG13	2.14	0.46
66:AN:94:SER:HB2	66:AN:104:PRO:O	2.15	0.46
35:AR:7:C:H2'	35:AR:8:C:C6	2.50	0.46
35:AR:92:G:C8	83:AR:4200:SPD:H52	2.50	0.46
35:AR:150:A:C5	35:AR:151:A:C8	3.03	0.46
35:AR:157:A:N7	62:DK:26:ILE:HG12	2.30	0.46
35:AR:273:A:H2'	35:AR:274:G:H8	1.79	0.46
35:AR:1728:G:H4'	35:AR:1729:A:H5"	1.97	0.46
35:AR:1803:C:H5'	60:DI:63:ALA:HB2	1.97	0.46
35:AR:2148:U:H2'	35:AR:2149:A:C8	2.50	0.46
35:AR:3023:U:H2'	35:AR:3024:A:H8	1.79	0.46
37:AT:2:A:H2'	37:AT:3:A:H8	1.79	0.46
42:CJ:185:ARG:O	42:CJ:188:THR:HB	2.15	0.46
45:CM:17:LEU:CD1	45:CM:80:LEU:HB2	2.46	0.46
46:CN:165:SER:O	46:CN:167:PHE:N	2.48	0.46
49:CQ:67:THR:O	49:CQ:71:PHE:HE1	1.98	0.46
59:DH:13:HIS:ND1	59:DH:93:THR:OG1	2.47	0.46
69:DR:26:VAL:HG12	69:DR:30:GLU:HG3	1.96	0.46
79:h:80:ALA:CB	79:h:92:TRP:HB2	2.41	0.46
1:sR:27:U:H2'	1:sR:28:A:H8	1.80	0.46
1:sR:151:G:N2	1:sR:163:G:H22	2.12	0.46
1:sR:872:G:H2'	1:sR:873:U:O4'	2.13	0.46
1:sR:1070:C:H2'	1:sR:1071:U:C6	2.50	0.46
1:sR:1792:G:O5'	73:d6:3:LYS:HA	2.15	0.46
79:Rb:21:THR:N	79:Rb:36:ALA:O	2.48	0.46
79:Rb:91:LEU:HD22	79:Rb:100:TYR:HB2	1.96	0.46
79:Rb:240:VAL:HA	79:Rb:256:THR:HA	1.97	0.46
2:s0:53:THR:HA	2:s0:161:PRO:HD2	1.96	0.46
6:s4:241:GLY:O	6:s4:244:ILE:HB	2.15	0.46
7:s5:43:PHE:HB3	7:s5:46:TRP:HB2	1.98	0.46
7:s5:121:ILE:HD11	7:s5:129:PRO:HB3	1.97	0.46
7:s5:121:ILE:HD12	7:s5:122:ASN:N	2.30	0.46
7:s5:145:ASP:O	7:s5:160:VAL:HG22	2.15	0.46
9:s7:62:VAL:HG12	9:s7:63:PRO:HD2	1.98	0.46
9:s7:152:VAL:C	9:s7:153:LEU:HD23	2.40	0.46
15:c4:47:LYS:NZ	15:c4:62:LEU:O	2.47	0.46
19:c8:23:ASP:OD1	19:c8:25:ASN:N	2.30	0.46
19:c8:88:ARG:NH2	19:c8:112:ASP:OD2	2.48	0.46
20:c9:70:GLN:HE22	20:c9:119:LYS:NZ	2.13	0.46
25:d4:52:LYS:C	25:d4:54:ALA:N	2.71	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:592:A:O2'	1:A:596:C:OP1	2.33	0.46
1:A:747:C:H4'	23:X:80:ASN:OD1	2.15	0.46
1:A:761:G:O2'	1:A:789:A:N6	2.48	0.46
1:A:811:A:N6	9:I:113:PRO:HD3	2.30	0.46
1:A:895:G:H2'	1:A:896:U:C6	2.50	0.46
1:A:1172:G:H2'	1:A:1173:C:C6	2.50	0.46
1:A:1526:A:H3'	1:A:1527:C:H6	1.79	0.46
2:B:76:ILE:CG1	2:B:98:ILE:HB	2.33	0.46
3:C:156:ALA:HB1	3:C:160:HIS:ND1	2.30	0.46
4:D:206:THR:O	4:D:210:THR:HG22	2.15	0.46
5:E:37:VAL:HG12	5:E:50:ILE:HA	1.97	0.46
5:E:222:VAL:HG23	79:h:191:ASP:O	2.14	0.46
6:F:32:SER:O	6:F:83:PRO:HG3	2.16	0.46
8:H:154:ARG:HD2	8:H:154:ARG:H	1.80	0.46
9:I:48:GLU:OE2	9:I:56:LYS:NZ	2.48	0.46
14:O:128:TYR:O	14:O:132:VAL:HG13	2.16	0.46
15:P:19:ILE:HG23	15:P:28:VAL:CG2	2.45	0.46
21:V:17:GLN:H	21:V:97:VAL:CG2	2.28	0.46
21:V:68:ARG:NH2	21:V:76:SER:O	2.49	0.46
22:W:32:VAL:HG22	22:W:55:LEU:HB2	1.97	0.46
28:AB:64:GLN:OE1	35:1:70:A:H5'	2.15	0.46
31:CD:223:SER:O	31:CD:223:SER:OG	2.30	0.46
33:CE:154:TYR:CD1	35:AR:3242:G:H2'	2.50	0.46
35:1:434:U:O4	80:1:4150:OHX:N5	2.47	0.46
35:1:623:U:O3'	59:AG:86:ARG:NH2	2.48	0.46
35:1:908:G:H4'	35:1:909:G:O5'	2.15	0.46
35:1:1703:U:N3	35:1:1740:U:O2	2.48	0.46
35:1:1801:U:H2'	35:1:1802:C:C6	2.50	0.46
35:1:2215:A:C4	35:1:2216:G:C8	3.04	0.46
35:1:2601:A:H2'	35:1:2602:G:H8	1.80	0.46
35:1:3275:U:O4'	59:AG:66:VAL:HG21	2.15	0.46
35:1:3315:G:H2'	33:k:123:TYR:CD2	2.51	0.46
42:p:135:GLY:O	42:p:139:VAL:HG23	2.16	0.46
45:s:15:GLU:OE1	45:s:16:LYS:HE3	2.15	0.46
47:u:73:PRO:HG2	47:u:76:ALA:HB2	1.97	0.46
54:2:46:GLY:O	54:2:49:GLN:NE2	2.48	0.46
55:5:37:LEU:O	55:5:41:ILE:HD12	2.15	0.46
70:i:43:ASP:HB3	70:i:46:LYS:HZ3	1.81	0.46
35:AR:1176:C:H2'	35:AR:1177:G:N2	2.29	0.46
35:AR:1251:A:H2'	35:AR:1252:A:C8	2.44	0.46
35:AR:1497:C:H2'	35:AR:1498:A:C8	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:3065:G:H2'	35:AR:3066:U:C6	2.50	0.46
35:AR:3335:A:H2'	35:AR:3336:A:C8	2.51	0.46
43:CK:122:LYS:HG3	43:CK:123:ILE:N	2.29	0.46
44:CL:115:MET:O	44:CL:115:MET:HG3	2.15	0.46
46:CN:57:VAL:HG23	46:CN:147:ILE:HG23	1.95	0.46
46:CN:157:ARG:HG2	46:CN:158:ALA:N	2.22	0.46
49:CQ:62:THR:HB	49:CQ:65:ASN:O	2.16	0.46
53:CU:28:ARG:O	53:CU:29:ILE:HD13	2.15	0.46
55:CW:19:VAL:O	55:CW:22:PRO:HD2	2.15	0.46
73:b:3:LYS:HD2	73:b:5:ARG:H	1.80	0.46
74:c:15:GLU:OE1	74:c:23:THR:HB	2.15	0.46
77:f:10:ARG:O	77:f:13:LYS:HB2	2.15	0.46
79:h:46:LYS:HG2	79:h:56:VAL:HG12	1.97	0.46
79:h:93:ASP:O	79:h:97:GLY:N	2.48	0.46
79:h:303:ALA:O	79:h:310:ILE:HA	2.15	0.46
1:sR:153:G:H2'	1:sR:154:G:H8	1.80	0.46
1:sR:933:A:OP2	73:d6:37:LYS:HE2	2.14	0.46
1:sR:985:G:N7	80:sR:1905:OHX:N2	2.64	0.46
1:sR:1206:U:OP2	1:sR:1207:C:O2'	2.31	0.46
1:sR:1391:A:H2'	1:sR:1392:U:C6	2.51	0.46
1:sR:1532:U:P	72:d5:77:ARG:HH22	2.37	0.46
1:sR:1620:C:HO2'	1:sR:1621:U:P	2.38	0.46
1:sR:1669:U:H2'	1:sR:1670:G:O4'	2.15	0.46
1:sR:1699:G:H2'	1:sR:1700:C:H5'	1.97	0.46
3:s1:58:SER:O	3:s1:62:LYS:HG3	2.15	0.46
4:s2:162:CYS:O	4:s2:209:ASN:ND2	2.48	0.46
5:s3:126:VAL:HG21	5:s3:188:ILE:CG2	2.44	0.46
8:s6:3:LEU:HA	8:s6:109:LEU:O	2.16	0.46
12:c0:56:LYS:HB2	12:c0:56:LYS:HE3	1.66	0.46
12:c0:56:LYS:HB3	12:c0:67:THR:CG2	2.46	0.46
14:c3:92:ILE:O	14:c3:96:VAL:HG13	2.16	0.46
19:c8:27:LYS:O	19:c8:31:ALA:N	2.31	0.46
23:d2:25:VAL:HG22	23:d2:65:LEU:HD11	1.96	0.46
24:d3:126:LYS:HG2	24:d3:131:SER:HA	1.98	0.46
73:d6:51:ARG:HG3	73:d6:52:ASP:N	2.30	0.46
1:A:738:G:O6	80:A:1946:OHX:N4	2.48	0.46
1:A:1196:A:H4'	1:A:1197:C:H5"	1.97	0.46
1:A:1253:U:H2'	1:A:1254:U:C6	2.50	0.46
1:A:1360:A:C2	1:A:1364:G:C6	3.04	0.46
1:A:1366:U:H4'	20:U:7:ARG:HD3	1.96	0.46
3:C:70:LEU:O	3:C:70:LEU:HD23	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:137:ILE:HD12	3:C:137:ILE:C	2.40	0.46
3:C:184:LEU:HD13	3:C:188:LEU:HD22	1.97	0.46
4:D:53:ILE:HD13	4:D:57:PHE:CE2	2.49	0.46
4:D:118:ALA:HB3	4:D:124:ALA:HB2	1.98	0.46
5:E:113:LEU:HG	5:E:117:ARG:HH11	1.80	0.46
6:F:107:GLY:HA2	6:F:189:LEU:HD23	1.96	0.46
15:P:99:GLN:HA	15:P:102:LEU:CD2	2.46	0.46
20:U:14:PHE:CE2	20:U:63:ARG:HG3	2.50	0.46
24:Y:131:SER:O	24:Y:134:ALA:N	2.49	0.46
31:CD:244:GLY:HA3	35:AR:2242:A:H5"	1.98	0.46
35:1:1128:U:H2'	35:1:1129:A:O4'	2.14	0.46
35:1:1266:G:C6	35:1:1276:U:N3	2.83	0.46
35:1:2812:C:H2'	35:1:2813:A:H8	1.80	0.46
31:j:149:ARG:NH2	31:j:252:THR:HB	2.26	0.46
38:l:120:TYR:CE2	38:l:277:PRO:HB3	2.51	0.46
39:m:289:LYS:HD2	44:r:206:LEU:HD23	1.97	0.46
43:q:187:ILE:HG22	43:q:188:THR:H	1.80	0.46
59:AG:53:TYR:CZ	59:AG:65:ARG:HB2	2.51	0.46
35:AR:432:G:H2'	35:AR:433:A:C8	2.50	0.46
35:AR:543:C:N4	35:AR:548:G:H1	2.14	0.46
35:AR:848:A:H2	1:sR:973:A:H5'	1.80	0.46
35:AR:1306:G:O2'	35:AR:1307:G:H5"	2.16	0.46
35:AR:1488:G:H21	60:DI:12:PRO:HG2	1.80	0.46
35:AR:2401:A:O3'	38:CF:68:GLY:HA2	2.15	0.46
35:AR:2443:A:O2'	35:AR:2444:C:H5'	2.16	0.46
35:AR:2533:G:H2'	35:AR:2534:G:O4'	2.16	0.46
36:AS:96:U:H2'	36:AS:97:A:H8	1.80	0.46
39:CG:52:VAL:HG22	39:CG:63:GLN:HB2	1.97	0.46
42:CJ:166:LEU:HD23	42:CJ:166:LEU:HA	1.71	0.46
43:CK:101:VAL:HA	43:CK:113:GLU:O	2.15	0.46
44:CL:180:GLU:O	44:CL:183:LYS:N	2.48	0.46
55:CW:34:ALA:O	55:CW:38:ILE:HG23	2.16	0.46
71:p0:16:ARG:HB3	71:p0:66:PHE:CE2	2.50	0.46
74:c:20:LYS:HG3	74:c:21:LEU:N	2.29	0.46
74:c:48:SER:HB2	74:c:49:HIS:ND1	2.31	0.46
1:sR:460:A:H3'	1:sR:461:G:H8	1.80	0.46
1:sR:587:C:H2'	1:sR:588:U:C6	2.51	0.46
1:sR:631:G:H2'	1:sR:632:U:C6	2.51	0.46
1:sR:1267:G:H2'	1:sR:1268:G:H8	1.78	0.46
1:sR:1702:A:H4'	1:sR:1702:A:OP1	2.16	0.46
6:s4:117:GLU:C	6:s4:119:ALA:H	2.21	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:c5:17:TYR:C	16:c5:19:GLY:H	2.21	0.46
17:c6:57:LEU:H	17:c6:57:LEU:HD12	1.81	0.46
20:c9:73:VAL:HA	20:c9:76:LEU:HD13	1.98	0.46
1:A:253:A:H2'	1:A:254:A:C8	2.50	0.46
1:A:304:U:H2'	1:A:305:C:H6	1.80	0.46
1:A:522:U:H2'	1:A:523:G:O4'	2.15	0.46
1:A:1085:G:H2'	1:A:1087:A:OP2	2.14	0.46
1:A:1595:U:H5	1:A:1596:C:C5	2.33	0.46
4:D:53:ILE:HA	4:D:56:ILE:HG13	1.97	0.46
4:D:226:THR:HG23	4:D:228:ASN:OD1	2.16	0.46
7:G:40:ILE:HB	7:G:49:GLU:OE2	2.14	0.46
7:G:121:ILE:HG23	7:G:199:ILE:CG2	2.40	0.46
8:H:22:HIS:CE1	33:k:298:PHE:HA	2.51	0.46
9:I:48:GLU:O	9:I:49:ILE:HG23	2.16	0.46
16:Q:28:MET:HE2	16:Q:32:ASP:HB3	1.98	0.46
16:Q:33:PHE:HE1	16:Q:112:LEU:HD13	1.81	0.46
18:S:14:LYS:HG3	18:S:15:ALA:N	2.30	0.46
21:V:67:THR:CG2	76:e:40:ARG:HB2	2.45	0.46
23:X:21:GLY:C	74:c:3:LEU:HG	2.40	0.46
26:DB:27:LYS:HB3	26:DB:29:HIS:HE1	1.80	0.46
32:AE:35:GLU:OE2	32:AE:35:GLU:HA	2.16	0.46
32:AE:60:TRP:O	35:1:1476:G:H5'	2.14	0.46
33:CE:107:ALA:HA	33:CE:199:PHE:CD2	2.49	0.46
35:1:159:A:H2'	35:1:160:G:H8	1.80	0.46
35:1:1487:G:H1	35:1:1855:U:H3	1.62	0.46
35:1:2401:A:O3'	38:l:68:GLY:HA2	2.15	0.46
35:1:2407:C:H1'	35:1:2818:U:O2	2.15	0.46
35:1:2656:A:OP2	68:AP:97:LYS:HB3	2.15	0.46
35:1:2722:U:O2'	54:2:88:ARG:O	2.28	0.46
35:1:2724:U:OP2	54:2:87:LYS:HE2	2.15	0.46
35:1:3393:U:H2'	35:1:3394:U:C6	2.50	0.46
31:j:185:ALA:O	31:j:189:TYR:HD2	1.99	0.46
31:j:201:GLY:HA2	31:j:204:MET:SD	2.56	0.46
33:k:4:ARG:HH11	33:k:4:ARG:HG2	1.80	0.46
43:q:22:SER:N	47:u:8:LYS:HE2	2.31	0.46
45:s:53:THR:OG1	45:s:60:ARG:HA	2.15	0.46
46:t:46:ILE:HG22	46:t:47:ALA:N	2.30	0.46
49:w:84:LEU:HD23	49:w:84:LEU:HA	1.63	0.46
50:x:172:GLN:NE2	59:AG:61:GLY:HA3	2.30	0.46
55:5:35:LYS:HD3	55:5:35:LYS:C	2.40	0.46
57:7:32:GLN:OE1	57:7:33:ASN:HB3	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:139:G:H2'	35:AR:140:C:C6	2.51	0.46
35:AR:293:C:H4'	62:DK:76:ARG:HH21	1.81	0.46
35:AR:388:G:N2	50:CR:101:ASN:OD1	2.47	0.46
35:AR:561:C:OP1	47:CO:77:ARG:HG3	2.15	0.46
35:AR:827:A:H5"	60:DI:14:ASN:O	2.15	0.46
35:AR:1503:A:H2'	35:AR:1504:A:H8	1.81	0.46
35:AR:2232:A:H2'	35:AR:2233:A:C8	2.50	0.46
35:AR:2273:G:O6	80:AR:4229:OHX:N3	2.48	0.46
35:AR:2667:A:N6	35:AR:2687:G:H1'	2.31	0.46
35:AR:2675:C:N4	45:CM:22:SER:HB2	2.30	0.46
35:AR:2736:A:O2'	54:CV:68:THR:HG21	2.16	0.46
35:AR:3065:G:O6	80:AR:3607:OHX:N6	2.48	0.46
35:AR:3217:C:C5	35:AR:3220:G:H1'	2.50	0.46
39:CG:124:GLU:O	39:CG:126:GLU:HG2	2.15	0.46
42:CJ:187:GLY:HA3	42:CJ:194:THR:HA	1.96	0.46
45:CM:84:LEU:HD12	45:CM:84:LEU:H	1.80	0.46
46:CN:50:PRO:HB3	46:CN:138:VAL:O	2.15	0.46
52:CT:148:ASP:O	52:CT:152:GLU:HB3	2.14	0.46
52:CT:173:ARG:HH11	52:CT:173:ARG:HG2	1.81	0.46
55:CW:47:VAL:HG22	55:CW:48:GLY:H	1.81	0.46
56:CX:90:GLY:O	57:CY:16:GLY:HA2	2.15	0.46
34:DG:25:TYR:HB2	34:DG:28:VAL:HG23	1.95	0.46
61:DJ:119:LYS:HE3	61:DJ:119:LYS:HB3	1.67	0.46
64:DM:15:THR:C	64:DM:20:VAL:HG21	2.41	0.46
68:DQ:46:LYS:HG2	68:DQ:54:THR:OG1	2.15	0.46
72:a:42:LEU:HD13	72:a:42:LEU:C	2.40	0.46
73:b:87:ARG:NH2	73:b:94:ASN:O	2.49	0.46
74:c:49:HIS:HD2	74:c:69:GLY:CA	2.28	0.46
75:d:16:LEU:HB2	75:d:27:GLN:O	2.15	0.46
79:h:19:TRP:CD1	79:h:306:THR:O	2.69	0.46
79:h:34:LEU:HG	79:h:73:LEU:HD21	1.97	0.46
1:sR:199:G:O2'	1:sR:200:A:H8	1.99	0.46
1:sR:492:A:H2'	1:sR:493:U:H5"	1.97	0.46
1:sR:499:U:H2'	1:sR:500:C:C6	2.50	0.46
1:sR:654:C:H2'	1:sR:655:G:C8	2.48	0.46
1:sR:901:G:C6	1:sR:902:G:C6	3.04	0.46
1:sR:1163:A:N3	1:sR:1613:U:O2'	2.38	0.46
1:sR:1226:A:O2'	1:sR:1256:A:N6	2.48	0.46
1:sR:1230:A:H1'	1:sR:1256:A:N1	2.30	0.46
1:sR:1241:G:H2'	1:sR:1242:A:O4'	2.16	0.46
79:Rb:265:LEU:HD23	79:Rb:268:GLN:HA	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:121:VAL:HG23	4:s2:122:ALA:N	2.31	0.46
7:s5:25:LEU:CD1	17:c6:27:GLY:HA2	2.46	0.46
7:s5:112:ARG:HA	7:s5:112:ARG:HD3	1.56	0.46
8:s6:3:LEU:O	8:s6:15:THR:HA	2.16	0.46
9:s7:46:ILE:C	9:s7:47:ARG:HH11	2.23	0.46
10:s8:65:PHE:HA	10:s8:181:GLY:O	2.16	0.46
12:c0:56:LYS:HB3	12:c0:67:THR:HG23	1.97	0.46
19:c8:66:LEU:O	19:c8:70:VAL:HG23	2.16	0.46
19:c8:72:ILE:HA	19:c8:79:TYR:CD2	2.50	0.46
25:d4:24:VAL:HG23	25:d4:71:GLY:O	2.16	0.46
75:d8:10:ALA:HB1	75:d8:30:VAL:HG21	1.97	0.46
1:A:1:U:N3	11:K:54:ARG:HD2	2.30	0.46
1:A:332:U:P	10:J:56:ARG:HH22	2.38	0.46
1:A:335:U:O2'	13:M:129:ARG:HD3	2.15	0.46
1:A:509:G:H2'	1:A:510:G:N9	2.31	0.46
1:A:812:A:OP1	1:A:814:A:C8	2.69	0.46
1:A:834:G:H2'	1:A:835:U:C6	2.51	0.46
1:A:1234:A:O2'	78:g:145:HIS:O	2.30	0.46
2:B:141:ILE:HA	2:B:142:PRO:HD3	1.81	0.46
3:C:108:ASP:HA	73:b:68:TYR:CE1	2.48	0.46
4:D:50:ILE:HD13	4:D:50:ILE:HA	1.86	0.46
4:D:169:LEU:HB3	4:D:196:VAL:HG21	1.98	0.46
6:F:22:LYS:N	6:F:22:LYS:CD	2.79	0.46
6:F:151:ASP:OD2	6:F:153:ASN:HB2	2.15	0.46
6:F:173:ILE:HD12	6:F:173:ILE:H	1.81	0.46
7:G:115:LYS:HD2	7:G:115:LYS:C	2.41	0.46
11:K:45:ILE:HG22	11:K:101:VAL:HG23	1.98	0.46
13:M:10:GLU:HG3	13:M:14:GLN:NE2	2.31	0.46
19:T:5:VAL:O	72:a:42:LEU:CD2	2.64	0.46
19:T:63:GLN:HA	19:T:66:LEU:CD2	2.45	0.46
19:T:86:LEU:HB3	19:T:99:HIS:ND1	2.30	0.46
26:AA:9:LYS:O	26:AA:25:ILE:HD12	2.15	0.46
26:AA:64:LYS:NZ	35:1:1812:G:N7	2.64	0.46
30:AD:49:PRO:HD3	35:1:1729:A:C6	2.51	0.46
33:CE:144:ILE:HG13	33:CE:145:GLU:H	1.81	0.46
30:DE:93:LEU:O	30:DE:94:GLU:HG2	2.15	0.46
30:DE:99:ASP:OD1	30:DE:99:ASP:N	2.30	0.46
35:1:607:A:OP1	40:n:26:ARG:NH2	2.49	0.46
35:1:620:U:H1'	35:1:622:A:N7	2.30	0.46
35:1:962:A:N1	35:1:2814:G:O2'	2.42	0.46
35:1:1167:U:P	59:AG:73:ARG:HH22	2.39	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1916:U:H2'	35:1:1917:C:H6	1.81	0.46
35:1:2353:G:H5"	50:x:86:LYS:HB2	1.96	0.46
37:4:124:G:H3'	37:4:125:U:C5'	2.45	0.46
31:j:206:PRO:HD3	31:j:213:GLY:HA3	1.96	0.46
39:m:55:PHE:CE1	39:m:60:ILE:HG12	2.51	0.46
39:m:253:PHE:C	39:m:254:LYS:HD2	2.40	0.46
42:p:244:ALA:O	42:p:248:LYS:HG3	2.14	0.46
45:s:48:SER:HB2	45:s:66:ALA:HB3	1.96	0.46
45:s:50:ALA:HB2	45:s:65:ILE:HD13	1.97	0.46
45:s:116:TYR:CE2	45:s:118:PRO:HB3	2.50	0.46
53:0:8:GLN:HE21	53:0:26:ARG:HE	1.64	0.46
53:0:137:ARG:HG2	53:0:139:TYR:CZ	2.49	0.46
69:AQ:73:THR:HG23	69:AQ:76:ALA:H	1.79	0.46
35:AR:25:U:O4	80:AR:3408:OHX:N5	2.48	0.46
35:AR:1565:G:C4	35:AR:1566:A:C8	3.04	0.46
35:AR:1767:C:H2'	35:AR:1768:U:O4'	2.15	0.46
35:AR:2412:G:H2'	35:AR:2413:A:H8	1.80	0.46
35:AR:2609:A:H2'	35:AR:2610:G:H8	1.80	0.46
45:CM:85:LYS:HD2	16:c5:12:PHE:CE2	2.50	0.46
48:CP:21:PHE:CD1	48:CP:22:LEU:HD23	2.50	0.46
53:CU:141:LYS:HA	53:CU:144:LEU:HD12	1.96	0.46
34:DG:16:LYS:HA	34:DG:16:LYS:HD2	1.76	0.46
60:DI:21:LYS:HB2	60:DI:35:VAL:HG11	1.97	0.46
61:DJ:13:SER:H	61:DJ:16:GLN:CD	2.23	0.46
63:DL:25:ARG:O	63:DL:25:ARG:HG3	2.14	0.46
72:a:66:VAL:HG22	72:a:71:ILE:O	2.16	0.46
72:a:86:GLU:HG3	72:a:86:GLU:O	2.15	0.46
75:d:8:THR:HG23	75:d:56:LEU:O	2.16	0.46
76:e:20:GLN:HG2	76:e:25:SER:HA	1.97	0.46
79:h:117:LYS:H	79:h:117:LYS:HG3	1.24	0.46
79:h:190:ALA:CB	79:h:192:PHE:HE1	2.28	0.46
1:sR:53:G:H2'	1:sR:54:C:H6	1.80	0.46
1:sR:162:A:H2'	1:sR:163:G:C8	2.51	0.46
1:sR:648:G:C2	1:sR:687:G:C2	3.04	0.46
1:sR:1267:G:H21	1:sR:1448:G:H5"	1.79	0.46
1:sR:1729:C:H2'	1:sR:1730:A:O4'	2.16	0.46
79:Rb:16:HIS:CE1	79:Rb:43:ILE:HG13	2.50	0.46
79:Rb:133:VAL:O	79:Rb:140:CYS:HB2	2.16	0.46
5:s3:179:GLN:CD	5:s3:180:GLY:H	2.24	0.46
17:c6:40:GLU:HG2	17:c6:42:GLU:HB2	1.98	0.46
1:A:364:G:O2'	1:A:756:A:N6	2.49	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:463:U:O2'	1:A:527:A:N6	2.48	0.46
1:A:535:A:P	11:K:168:ARG:HH22	2.39	0.46
1:A:1107:G:O2'	1:A:1108:G:H5'	2.16	0.46
1:A:1250:U:O2'	1:A:1251:U:OP1	2.32	0.46
1:A:1678:A:P	10:J:59:ARG:HH22	2.37	0.46
2:B:41:ARG:NH2	2:B:45:VAL:HG12	2.30	0.46
4:D:73:LEU:HD13	4:D:75:GLY:N	2.31	0.46
4:D:143:TYR:HE2	4:D:147:ASN:O	1.97	0.46
5:E:39:VAL:HB	5:E:48:VAL:HG22	1.96	0.46
6:F:66:MET:HE2	6:F:66:MET:HA	1.97	0.46
6:F:181:VAL:CG1	6:F:195:ILE:HD11	2.45	0.46
7:G:37:GLN:HE21	17:R:57:LEU:HD22	1.80	0.46
7:G:62:VAL:CG1	7:G:89:ILE:HG21	2.45	0.46
8:H:164:LYS:HE2	8:H:164:LYS:HB2	1.80	0.46
13:M:75:VAL:HA	13:M:86:ILE:HG22	1.97	0.46
15:P:16:VAL:HG21	15:P:18:ARG:HE	1.81	0.46
16:Q:68:PRO:HD2	16:Q:71:GLU:OE2	2.15	0.46
18:S:60:ARG:HH21	18:S:66:VAL:CG2	2.28	0.46
21:V:27:THR:OG1	21:V:113:ASP:HB3	2.16	0.46
26:AA:68:ILE:HD12	26:AA:119:GLU:HG3	1.97	0.46
28:AB:66:ALA:HB1	46:t:64:LYS:HD2	1.98	0.46
28:AB:67:HIS:HE2	35:1:71:A:P	2.38	0.46
26:DB:103:GLN:HA	26:DB:104:PRO:HD2	1.68	0.46
35:1:155:G:H4'	35:1:156:G:H2'	1.96	0.46
35:1:316:U:O2'	62:AJ:30:LYS:HD3	2.16	0.46
35:1:2255:A:OP1	80:1:3454:OHX:N5	2.49	0.46
35:1:3035:A:OP2	80:1:3566:OHX:N3	2.49	0.46
35:1:3257:C:H2'	35:1:3258:U:O4'	2.16	0.46
33:k:5:LYS:O	33:k:5:LYS:HG3	2.16	0.46
38:l:212:ASP:CG	38:l:216:VAL:HG22	2.40	0.46
40:n:43:LEU:HD11	40:n:85:ILE:HG13	1.98	0.46
41:o:119:VAL:O	54:2:135:PRO:HD3	2.15	0.46
44:r:36:LEU:HD12	44:r:73:ASN:HB2	1.98	0.46
45:s:106:ILE:O	45:s:106:ILE:HD12	2.16	0.46
47:u:55:ARG:HD3	53:0:70:THR:OG1	2.15	0.46
49:w:22:VAL:HG11	49:w:120:VAL:HG11	1.98	0.46
49:w:42:ASN:HA	49:w:136:THR:O	2.16	0.46
52:z:133:LYS:O	52:z:133:LYS:HD2	2.14	0.46
27:9:108:LYS:HB2	27:9:108:LYS:HE2	1.74	0.46
35:AR:312:C:H2'	35:AR:313:A:H8	1.80	0.46
35:AR:712:G:H2'	35:AR:713:U:C6	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:783:A:OP2	80:AR:3673:OHX:N3	2.49	0.46
35:AR:1525:G:N7	80:AR:3550:OHX:N3	2.63	0.46
35:AR:1898:G:O2'	56:CX:21:ALA:HB2	2.16	0.46
36:AS:1:G:OP1	39:CG:273:ARG:NH2	2.49	0.46
39:CG:224:LYS:HB2	39:CG:224:LYS:HE3	1.69	0.46
43:CK:173:ARG:O	43:CK:176:LEU:HD21	2.16	0.46
46:CN:57:VAL:HG22	46:CN:69:VAL:HG21	1.98	0.46
50:CR:67:ILE:HD12	50:CR:82:ARG:CZ	2.45	0.46
78:g:132:LEU:HB2	78:g:140:TYR:C	2.40	0.46
79:h:10:ARG:HE	79:h:51:ASP:CB	2.29	0.46
1:sR:406:U:H2'	1:sR:407:A:H8	1.80	0.46
1:sR:594:A:H4'	1:sR:595:G:H5'	1.97	0.46
1:sR:926:A:H2'	1:sR:927:C:C6	2.50	0.46
1:sR:967:A:OP1	14:c3:4:MET:HG3	2.16	0.46
1:sR:1649:G:H2'	1:sR:1650:U:H6	1.80	0.46
1:sR:1688:U:O2	1:sR:1713:G:N2	2.36	0.46
2:s0:26:ALA:O	2:s0:46:HIS:HB2	2.15	0.46
2:s0:110:TYR:CD1	2:s0:111:ILE:N	2.84	0.46
8:s6:190:GLN:HA	8:s6:193:LEU:HD13	1.97	0.46
9:s7:82:GLU:OE2	9:s7:89:HIS:HA	2.15	0.46
10:s8:114:GLU:N	10:s8:114:GLU:OE1	2.49	0.46
11:s9:57:ARG:HG2	11:s9:97:LEU:CD2	2.44	0.46
13:c1:55:ASP:OD2	13:c1:58:CYS:HB2	2.16	0.46
15:c4:112:ILE:HG22	15:c4:113:GLY:N	2.31	0.46
16:c5:78:THR:HG23	16:c5:80:MET:H	1.80	0.46
19:c8:25:ASN:O	72:d5:40:VAL:HG21	2.16	0.46
19:c8:101:LEU:O	19:c8:104:ASN:N	2.47	0.46
74:d7:20:LYS:CG	74:d7:21:LEU:N	2.78	0.46
1:A:714:G:H22	1:A:725:U:H3	1.63	0.46
1:A:863:A:C8	1:A:865:A:C8	3.04	0.46
1:A:887:A:C1'	15:P:122:PRO:HB3	2.36	0.46
1:A:1061:A:H3'	1:A:1062:A:H2	1.81	0.46
1:A:1250:U:HO2'	1:A:1251:U:P	2.39	0.46
1:A:1533:C:H4'	1:A:1539:G:N1	2.28	0.46
2:B:5:ALA:C	2:B:7:PHE:N	2.74	0.46
2:B:143:VAL:H	2:B:157:ASP:HB2	1.81	0.46
4:D:89:GLN:OE1	4:D:94:GLN:HG3	2.16	0.46
10:J:22:ARG:HG3	10:J:25:ARG:HH21	1.80	0.46
10:J:72:ILE:HG12	10:J:73:SER:N	2.31	0.46
11:K:113:VAL:HG21	11:K:134:ILE:HD12	1.98	0.46
12:L:3:MET:HE1	12:L:41:TYR:O	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:55:VAL:HA	12:L:69:THR:HG23	1.97	0.46
16:Q:71:GLU:N	16:Q:71:GLU:CD	2.73	0.46
19:T:45:LEU:CD1	20:U:35:ASP:HB2	2.46	0.46
23:X:23:ARG:HB3	23:X:65:LEU:O	2.16	0.46
35:1:65:A:H3'	35:1:111:C:N4	2.29	0.46
35:1:239:G:H2'	35:1:240:U:C6	2.51	0.46
35:1:632:G:H2'	35:1:633:C:C6	2.51	0.46
35:1:2871:G:OP2	87:1:4206:HOH:O	2.21	0.46
35:1:2930:A:H2'	35:1:2931:C:C6	2.51	0.46
35:1:3095:U:H2'	35:1:3096:C:C6	2.50	0.46
36:3:5:G:OP2	39:m:27:LYS:NZ	2.40	0.46
33:k:160:VAL:HG11	33:k:194:TRP:HZ3	1.80	0.46
39:m:69:ILE:HG13	54:2:31:LEU:HB3	1.97	0.46
39:m:107:ARG:NH1	39:m:169:GLY:O	2.48	0.46
45:s:12:LEU:CD2	45:s:131:MET:HB3	2.44	0.46
45:s:22:SER:OG	45:s:22:SER:O	2.34	0.46
46:t:127:PRO:HB2	46:t:131:LYS:HZ3	1.81	0.46
47:u:23:ILE:HD11	47:u:46:ILE:HD12	1.98	0.46
63:AK:52:LYS:HE2	63:AK:52:LYS:HB2	1.80	0.46
35:AR:45:A:OP2	48:CP:85:THR:HG21	2.14	0.46
35:AR:89:A:N7	51:CS:171:LYS:NZ	2.64	0.46
35:AR:1261:G:H5"	35:AR:1262:G:OP1	2.16	0.46
35:AR:1625:A:H2'	35:AR:1626:U:C6	2.50	0.46
35:AR:2106:A:H2'	35:AR:2107:A:H8	1.79	0.46
35:AR:2115:G:H4'	52:CT:79:GLY:O	2.16	0.46
35:AR:2138:A:O2'	63:DL:3:LYS:HG2	2.14	0.46
35:AR:2523:A:H2'	42:CJ:49:TYR:O	2.15	0.46
35:AR:2894:C:H2'	35:AR:2895:G:H8	1.81	0.46
35:AR:3009:G:O6	80:AR:3427:OHX:N4	2.49	0.46
37:AT:99:C:OP1	58:CZ:53:HIS:NE2	2.45	0.46
42:CJ:42:PRO:HD2	42:CJ:44:ARG:NH1	2.25	0.46
44:CL:48:LEU:O	44:CL:139:ARG:HA	2.16	0.46
44:CL:187:ALA:HB3	44:CL:189:GLU:HG3	1.98	0.46
48:CP:124:ASP:OD1	48:CP:126:THR:N	2.49	0.46
49:CQ:193:GLN:O	49:CQ:197:LEU:HD12	2.16	0.46
52:CT:176:ARG:HH11	1:sR:853:G:P	2.38	0.46
70:sM:61:ILE:HG23	70:sM:62:ARG:N	2.30	0.46
73:b:51:ARG:HG3	73:b:52:ASP:OD1	2.16	0.46
79:h:40:LYS:HB2	79:h:40:LYS:HE3	1.59	0.46
1:sR:301:A:OP2	80:sR:1949:OHX:N1	2.49	0.46
1:sR:319:U:H4'	1:sR:323:A:C8	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:329:G:H2'	1:sR:330:G:C8	2.51	0.46
1:sR:452:A:OP2	80:sR:1918:OHX:N5	2.48	0.46
1:sR:1797:A:N6	73:d6:84:VAL:HB	2.31	0.46
2:s0:139:VAL:HG23	4:s2:62:PRO:HG3	1.98	0.46
5:s3:103:GLU:HB3	5:s3:107:PHE:CZ	2.51	0.46
6:s4:68:ARG:HB3	6:s4:76:VAL:HG21	1.98	0.46
7:s5:161:ASP:O	75:d8:45:LYS:N	2.49	0.46
11:s9:63:ASP:OD1	11:s9:64:GLU:O	2.34	0.46
11:s9:89:ASP:H	11:s9:90:LYS:HZ3	1.63	0.46
15:c4:30:VAL:HG12	15:c4:39:ILE:HG12	1.98	0.46
15:c4:64:ALA:HB3	15:c4:104:ALA:HB3	1.98	0.46
19:c8:48:LYS:HZ1	20:c9:50:ALA:HB1	1.80	0.46
19:c8:116:LEU:HD11	19:c8:123:ARG:HB3	1.97	0.46
74:d7:31:TYR:CE1	74:d7:33:LEU:HD21	2.50	0.46
78:e1:108:VAL:HG23	78:e1:114:VAL:HG22	1.97	0.46
1:A:187:G:H4'	1:A:188:A:OP1	2.16	0.46
1:A:535:A:P	11:K:174:ARG:HH12	2.39	0.46
1:A:552:G:H2'	1:A:553:G:C8	2.51	0.46
1:A:701:U:H3	1:A:737:A:N6	1.91	0.46
1:A:1085:G:N2	1:A:1087:A:H3'	2.30	0.46
2:B:38:PHE:O	2:B:39:ASN:C	2.57	0.46
2:B:83:GLN:HE22	2:B:100:GLY:HA2	1.81	0.46
2:B:121:VAL:C	2:B:122:ILE:HD13	2.40	0.46
5:E:64:ARG:NH2	12:L:88:PRO:CB	2.78	0.46
5:E:162:GLN:O	5:E:163:PRO:C	2.58	0.46
7:G:76:ARG:HB3	7:G:79:ASN:OD1	2.15	0.46
9:I:56:LYS:O	9:I:88:ARG:HA	2.16	0.46
13:M:80:MET:H	13:M:80:MET:HG2	1.49	0.46
16:Q:30:THR:OG1	16:Q:31:GLU:OE1	2.34	0.46
20:U:65:ILE:HD11	20:U:122:ARG:O	2.16	0.46
22:W:37:ALA:HA	22:W:50:TYR:CD1	2.49	0.46
24:Y:103:LEU:HB2	24:Y:125:VAL:CG2	2.46	0.46
26:AA:36:HIS:HA	26:AA:37:PRO:HD3	1.61	0.46
28:AB:86:LYS:HA	28:AB:89:GLN:HB2	1.97	0.46
30:AD:99:ASP:O	30:AD:103:THR:N	2.49	0.46
31:CD:14:SER:OG	35:AR:911:C:OP1	2.34	0.46
31:CD:221:LYS:O	35:AR:2245:C:H4'	2.15	0.46
29:DD:4:SER:HB2	35:AR:1117:G:OP1	2.14	0.46
33:CE:167:ARG:O	80:CE:401:OHX:N5	2.49	0.46
35:1:199:A:C4	35:1:201:A:C8	3.03	0.46
35:1:269:G:H5'	48:v:120:TRP:CE3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:544:C:H1'	35:1:548:G:N2	2.27	0.46
35:1:619:A:H5"	35:1:620:U:OP1	2.16	0.46
35:1:1764:U:H3'	35:1:1765:U:C4'	2.45	0.46
35:1:1911:A:H8	35:1:1911:A:O5'	1.98	0.46
35:1:2757:U:H4'	54:2:8:ARG:HG3	1.97	0.46
35:1:2927:C:H2'	35:1:2928:C:C6	2.50	0.46
35:1:3294:A:H5'	33:k:128:LYS:HD3	1.97	0.46
36:3:46:A:OP1	39:m:158:ARG:HG2	2.16	0.46
36:3:97:A:H2'	36:3:98:C:H6	1.80	0.46
37:4:62:C:H4'	37:4:63:G:O5'	2.15	0.46
43:q:90:MET:HE1	43:q:161:LEU:HB3	1.98	0.46
45:s:148:VAL:HG21	45:s:153:LYS:HD2	1.98	0.46
51:y:66:ARG:NH2	51:y:143:PRO:HG3	2.30	0.46
52:z:42:ARG:HE	52:z:42:ARG:HB2	1.62	0.46
54:2:18:ASP:O	54:2:21:LYS:HB2	2.16	0.46
63:AK:19:CYS:O	63:AK:23:GLY:N	2.40	0.46
65:AM:23:LEU:HD12	65:AM:24:PRO:HD2	1.98	0.46
35:AR:121:A:N1	42:CJ:129:PRO:HG3	2.31	0.46
35:AR:813:G:H5'	63:DL:47:TYR:OH	2.15	0.46
35:AR:1422:G:H2'	35:AR:1423:C:H6	1.81	0.46
35:AR:1471:U:OP1	52:CT:5:ARG:NH1	2.48	0.46
35:AR:2147:A:H2'	35:AR:2148:U:O4'	2.16	0.46
35:AR:2268:U:H2'	35:AR:2269:U:H6	1.81	0.46
35:AR:3074:G:O6	80:AR:3607:OHX:N4	2.49	0.46
39:CG:43:LYS:C	39:CG:44:TYR:HD1	2.24	0.46
39:CG:50:ARG:NH2	39:CG:72:ASP:OD2	2.49	0.46
42:CJ:108:ARG:HG3	42:CJ:109:LEU:N	2.26	0.46
43:CK:105:GLU:HB2	43:CK:110:LYS:H	1.80	0.46
43:CK:137:SER:HB3	43:CK:143:GLU:HB3	1.97	0.46
45:CM:71:VAL:HG12	45:CM:76:ALA:HB2	1.98	0.46
54:CV:118:GLU:O	54:CV:121:ALA:N	2.45	0.46
79:h:24:ALA:HB2	79:h:71:CYS:HB3	1.98	0.46
79:h:29:GLN:O	79:h:31:ASN:N	2.44	0.46
1:sR:263:C:H4'	1:sR:292:U:H5'	1.97	0.46
1:sR:500:C:O2'	1:sR:501:U:O4'	2.27	0.46
1:sR:1217:A:N6	76:d9:8:PHE:HE2	2.14	0.46
1:sR:1235:C:H2'	1:sR:1236:A:C8	2.41	0.46
1:sR:1244:A:H3'	1:sR:1244:A:N3	2.30	0.46
1:sR:1381:U:H1'	1:sR:1516:A:N6	2.31	0.46
1:sR:1458:G:OP1	19:c8:138:THR:N	2.37	0.46
1:sR:1539:G:C2	19:c8:30:TYR:CE2	3.03	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1608:U:OP1	17:c6:15:SER:HB3	2.15	0.46
1:sR:1712:A:H4'	1:sR:1712:A:OP1	2.16	0.46
79:Rb:132:LYS:HB3	79:Rb:143:THR:OG1	2.16	0.46
4:s2:204:THR:O	4:s2:210:THR:HG21	2.15	0.46
8:s6:10:ASN:ND2	8:s6:128:THR:HG22	2.31	0.46
16:c5:91:GLY:N	16:c5:107:ILE:O	2.38	0.46
16:c5:110:GLU:OE1	16:c5:110:GLU:N	2.37	0.46
18:c7:77:GLU:O	18:c7:81:LYS:HG3	2.16	0.46
19:c8:106:GLU:HG2	19:c8:110:ARG:HH21	1.79	0.46
24:d3:59:ILE:HG21	24:d3:118:PRO:HD2	1.98	0.46
1:A:504:U:H2'	1:A:505:A:H4'	1.98	0.46
1:A:737:A:C4	1:A:738:G:C8	3.04	0.46
1:A:1252:C:H2'	78:g:142:GLY:HA3	1.97	0.46
1:A:1257:U:O2'	12:L:8:ARG:NH2	2.48	0.46
1:A:1291:G:H8	1:A:1291:G:O5'	1.98	0.46
1:A:1326:A:H2'	1:A:1327:C:H6	1.81	0.46
1:A:1588:G:H1	1:A:1608:U:H3	1.64	0.46
1:A:1682:U:O2'	1:A:1683:C:H2'	2.16	0.46
2:B:60:ALA:C	2:B:64:ILE:HG13	2.40	0.46
3:C:137:ILE:HD13	3:C:172:LEU:HD23	1.97	0.46
3:C:179:SER:OG	3:C:187:LYS:NZ	2.45	0.46
5:E:137:VAL:HG23	5:E:151:LYS:HD2	1.98	0.46
6:F:163:ASP:OD2	6:F:165:ALA:HB3	2.16	0.46
7:G:163:SER:O	7:G:167:ARG:HB2	2.16	0.46
8:H:116:LYS:NZ	8:H:120:GLU:OE2	2.32	0.46
10:J:29:LEU:HD21	10:J:31:ARG:HG2	1.97	0.46
11:K:65:LYS:HA	11:K:70:LEU:HD21	1.98	0.46
17:R:78:VAL:O	17:R:82:ARG:HG2	2.16	0.46
20:U:54:PHE:O	20:U:58:ALA:CB	2.64	0.46
24:Y:26:GLU:HB2	24:Y:29:TYR:HB3	1.97	0.46
29:DD:47:LEU:HA	29:DD:47:LEU:HD23	1.80	0.46
33:CE:349:LYS:NZ	35:AR:3097:C:OP1	2.49	0.46
34:AF:63:THR:O	34:AF:66:LEU:HB2	2.15	0.46
35:1:906:A:OP1	80:1:3502:OHX:N3	2.49	0.46
35:1:1051:U:H4'	54:2:19:PHE:CE1	2.51	0.46
35:1:1174:G:H1'	35:1:1181:U:N3	2.31	0.46
35:1:1482:A:H4'	35:1:1483:G:OP2	2.16	0.46
35:1:1492:G:O2'	65:AM:48:LYS:NZ	2.48	0.46
35:1:1575:A:C6	35:1:1576:G:N7	2.83	0.46
35:1:1664:G:H2'	35:1:1665:C:C6	2.51	0.46
35:1:2674:A:C5	45:s:124:GLY:HA3	2.51	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2842:U:O2	35:1:2842:U:H2'	2.16	0.46
35:1:2896:A:P	66:AN:102:ARG:HE	2.39	0.46
35:1:3148:U:OP2	80:1:4161:OHX:N2	2.49	0.46
36:3:43:U:C2	36:3:44:C:C6	3.04	0.46
37:4:142:C:H2'	37:4:143:U:C6	2.51	0.46
33:k:91:GLY:HA3	33:k:151:ILE:HG23	1.97	0.46
39:m:21:ARG:HH11	39:m:21:ARG:HG2	1.81	0.46
39:m:39:GLN:HB2	39:m:48:LYS:HG3	1.97	0.46
39:m:151:GLN:OE1	39:m:152:ARG:N	2.48	0.46
50:x:29:THR:HA	50:x:32:THR:HG22	1.98	0.46
53:0:146:LYS:HG3	53:0:147:ASP:N	2.31	0.46
58:8:88:MET:HB3	58:8:88:MET:HE2	1.70	0.46
35:AR:224:C:H2'	35:AR:225:C:H6	1.79	0.46
35:AR:781:G:OP1	51:CS:151:ARG:HD2	2.15	0.46
35:AR:796:U:H2'	35:AR:797:U:H6	1.81	0.46
35:AR:953:G:C8	35:AR:1117:G:C8	3.03	0.46
35:AR:1334:U:H2'	35:AR:1335:C:H6	1.81	0.46
35:AR:2216:G:H22	35:AR:2229:A:H2	1.63	0.46
35:AR:2655:U:H2'	68:DQ:3:ASN:O	2.16	0.46
35:AR:2781:U:H2'	35:AR:2782:U:C6	2.51	0.46
37:AT:65:A:H2'	37:AT:66:A:O4'	2.15	0.46
39:CG:237:GLU:O	39:CG:241:THR:OG1	2.28	0.46
41:CI:116:PHE:HB2	41:CI:199:ASN:OD1	2.16	0.46
42:CJ:97:TYR:CZ	42:CJ:203:VAL:HG23	2.51	0.46
43:CK:23:ARG:NH1	43:CK:39:LYS:O	2.49	0.46
44:CL:182:LEU:HD21	44:CL:185:ARG:HH21	1.80	0.46
44:CL:190:VAL:HG13	44:CL:197:VAL:CG1	2.45	0.46
55:CW:23:THR:HG22	55:CW:28:PHE:HB3	1.97	0.46
34:DG:66:LEU:HD23	34:DG:72:LYS:HG2	1.98	0.46
62:DK:60:LEU:HD13	62:DK:60:LEU:HA	1.74	0.46
70:sM:68:ARG:HG2	70:sM:68:ARG:NH1	2.31	0.46
1:sR:51:A:OP1	80:sR:1924:OHX:N1	2.49	0.46
1:sR:277:U:O2'	1:sR:278:U:OP1	2.30	0.46
1:sR:448:C:H2'	1:sR:449:C:H6	1.81	0.46
1:sR:486:G:N7	1:sR:488:G:C2	2.84	0.46
1:sR:647:G:H22	1:sR:687:G:N2	2.13	0.46
1:sR:843:U:H2'	1:sR:844:A:C8	2.50	0.46
1:sR:859:A:C5	14:c3:73:ARG:HD3	2.51	0.46
1:sR:1439:C:H2'	1:sR:1440:C:H6	1.80	0.46
79:Rb:221:MET:HG2	79:Rb:233:THR:OG1	2.16	0.46
79:Rb:292:LEU:HD23	79:Rb:292:LEU:HA	1.85	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:s0:120:LEU:HD23	2:s0:121:VAL:N	2.31	0.46
3:s1:50:LYS:HD2	3:s1:51:SER:H	1.79	0.46
3:s1:57:ALA:O	3:s1:61:LEU:HG	2.16	0.46
4:s2:111:VAL:CG1	4:s2:191:ALA:HA	2.46	0.46
5:s3:182:LEU:HD23	5:s3:182:LEU:HA	1.67	0.46
8:s6:153:VAL:O	8:s6:154:ARG:C	2.58	0.46
9:s7:73:VAL:CG2	9:s7:76:LYS:HE3	2.44	0.46
19:c8:76:PRO:O	19:c8:81:ILE:HB	2.16	0.46
23:d2:31:SER:O	23:d2:34:ILE:HB	2.16	0.46
24:d3:59:ILE:HD13	24:d3:71:CYS:SG	2.56	0.46
25:d4:55:VAL:CG2	25:d4:75:VAL:HG12	2.43	0.46
73:d6:40:ALA:HB3	73:d6:69:ASN:HB3	1.97	0.46
1:A:701:U:N3	1:A:702:G:N7	2.64	0.46
1:A:830:U:O2'	1:A:831:U:H6	1.99	0.46
1:A:1099:U:OP1	23:X:71:LYS:NZ	2.48	0.46
1:A:1183:A:C4	16:Q:100:LYS:HE2	2.51	0.46
1:A:1277:G:C4	1:A:1436:A:C2	3.04	0.46
1:A:1349:G:H2'	1:A:1350:U:C6	2.50	0.46
1:A:1401:A:OP1	18:S:60:ARG:NH1	2.48	0.46
1:A:1563:C:H2'	1:A:1564:U:C6	2.51	0.46
2:B:126:PRO:HG2	2:B:152:PRO:HD2	1.99	0.46
3:C:50:LYS:HD2	3:C:50:LYS:HA	1.50	0.46
4:D:107:SER:HA	4:D:190:LEU:O	2.16	0.46
5:E:28:GLU:O	5:E:29:LEU:HD23	2.16	0.46
6:F:87:MET:O	6:F:87:MET:HG3	2.16	0.46
6:F:191:ARG:NE	6:F:245:LYS:HB2	2.31	0.46
9:I:69:GLY:O	9:I:73:VAL:HG23	2.15	0.46
14:O:37:ILE:HD12	14:O:71:ILE:HG23	1.98	0.46
15:P:80:HIS:CD2	15:P:80:HIS:N	2.84	0.46
18:S:32:LYS:HD3	18:S:47:ARG:HH12	1.81	0.46
20:U:19:ALA:O	20:U:23:GLN:HB2	2.15	0.46
20:U:36:ILE:HG22	20:U:37:VAL:N	2.31	0.46
27:DA:100:HIS:ND1	27:DA:102:SER:HB3	2.30	0.46
28:AB:96:LYS:HB3	46:t:159:VAL:HG12	1.98	0.46
26:DB:50:PRO:HB3	26:DB:68:ILE:HD11	1.98	0.46
33:CE:30:LYS:NZ	35:AR:3139:A:OP2	2.36	0.46
35:1:121:A:O2'	42:p:105:LYS:HE3	2.16	0.46
35:1:1394:A:H2'	35:1:1395:G:O4'	2.15	0.46
35:1:1764:U:P	52:z:43:LYS:NZ	2.89	0.46
35:1:2191:U:H2'	35:1:2192:C:C6	2.51	0.46
35:1:2206:G:H2'	35:1:2207:A:O4'	2.16	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2219:A:H2'	35:1:2220:A:H8	1.80	0.46
35:1:3000:A:H2'	35:1:3001:C:C6	2.51	0.46
35:1:3163:A:C2'	35:1:3164:C:H5'	2.46	0.46
35:1:3163:A:O2'	35:1:3164:C:H5'	2.16	0.46
35:1:3288:G:C4	35:1:3289:G:N7	2.84	0.46
35:1:3306:U:H2'	35:1:3307:A:H5"	1.97	0.46
45:s:24:GLY:C	45:s:25:GLU:HG2	2.41	0.46
50:x:27:LYS:HE2	50:x:63:PHE:CD1	2.50	0.46
51:y:152:HIS:ND1	51:y:162:ALA:O	2.49	0.46
51:y:170:ARG:HG3	51:y:171:LYS:N	2.30	0.46
52:z:115:ILE:HG21	52:z:142:ILE:HG21	1.97	0.46
53:0:24:LEU:HD11	54:2:141:VAL:HG11	1.97	0.46
59:AG:86:ARG:O	80:AG:201:OHX:N5	2.49	0.46
35:AR:267:G:H4'	48:CP:50:ARG:HH11	1.81	0.46
35:AR:313:A:H2'	35:AR:314:U:C6	2.50	0.46
35:AR:1095:U:C4'	35:AR:1096:U:H5"	2.39	0.46
35:AR:1097:G:H5"	35:AR:1097:G:N3	2.31	0.46
35:AR:1460:A:H2'	35:AR:1461:A:C8	2.51	0.46
35:AR:1696:A:H2'	35:AR:1697:A:H8	1.77	0.46
35:AR:2289:U:H2'	35:AR:2290:C:C6	2.50	0.46
35:AR:2662:G:H2'	35:AR:2663:G:C8	2.50	0.46
37:AT:97:A:O5'	61:DJ:63:ARG:NE	2.47	0.46
39:CG:293:LEU:HD13	80:CG:303:OHX:N6	2.30	0.46
45:CM:95:ASN:HB3	45:CM:103:GLY:O	2.16	0.46
52:CT:159:ALA:O	52:CT:163:ARG:HB2	2.15	0.46
58:CZ:91:ASN:O	58:CZ:95:ILE:HD12	2.16	0.46
58:CZ:92:LYS:HE3	58:CZ:112:THR:HG23	1.98	0.46
62:DK:5:THR:OG1	62:DK:7:ILE:HG12	2.16	0.46
70:sM:61:ILE:HD13	19:c8:125:ILE:HA	1.96	0.46
75:d:64:ARG:HA	75:d:64:ARG:CZ	2.46	0.46
79:h:287:PRO:HA	79:h:306:THR:OG1	2.16	0.46
1:sR:91:G:OP1	1:sR:397:A:N6	2.47	0.46
1:sR:1248:C:H2'	1:sR:1249:U:C6	2.51	0.46
1:sR:1392:U:H2'	1:sR:1393:C:H6	1.79	0.46
1:sR:1523:G:N7	20:c9:64:HIS:NE2	2.64	0.46
1:sR:1639:C:H2'	1:sR:1640:C:O4'	2.16	0.46
6:s4:191:ARG:NE	6:s4:245:LYS:HG2	2.30	0.46
7:s5:73:THR:HG22	7:s5:91:GLU:CD	2.41	0.46
12:c0:5:LYS:HE3	12:c0:5:LYS:HB3	1.78	0.46
12:c0:54:TYR:HE2	12:c0:75:TYR:HB2	1.80	0.46
16:c5:57:MET:HA	16:c5:60:LEU:HB3	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:d1:54:ALA:O	22:d1:55:LEU:HD23	2.15	0.46
23:d2:40:VAL:HG21	23:d2:103:ILE:HG13	1.98	0.46
24:d3:70:LYS:HB3	24:d3:93:LEU:CD1	2.45	0.46
78:e1:132:LEU:HG	78:e1:141:CYS:CB	2.46	0.46
4:D:158:THR:HG23	4:D:169:LEU:HD13	1.97	0.45
5:E:175:VAL:CG1	5:E:182:LEU:HB2	2.46	0.45
8:H:1:MET:HE1	8:H:106:LEU:HB2	1.97	0.45
8:H:38:GLY:O	8:H:39:GLU:C	2.60	0.45
9:I:173:TYR:OH	9:I:179:LYS:HD2	2.16	0.45
11:K:161:THR:O	11:K:167:ALA:HB3	2.16	0.45
12:L:45:ALA:O	12:L:49:LEU:HD23	2.16	0.45
13:M:7:VAL:HG23	13:M:8:GLN:N	2.30	0.45
13:M:26:LYS:H	13:M:26:LYS:HG2	1.48	0.45
17:R:48:VAL:HG21	17:R:81:ILE:CD1	2.46	0.45
20:U:31:PRO:HD3	20:U:54:PHE:CE2	2.50	0.45
25:Z:126:ALA:HA	25:Z:129:VAL:CG2	2.46	0.45
28:AB:90:TYR:O	28:AB:91:LEU:C	2.58	0.45
26:DB:106:GLN:CA	26:DB:109:GLU:HB3	2.43	0.45
26:DB:119:GLU:H	26:DB:119:GLU:CD	2.23	0.45
28:DC:28:HIS:CD2	28:DC:32:ARG:HG3	2.50	0.45
29:DD:48:HIS:CD2	29:DD:48:HIS:C	2.93	0.45
33:CE:293:ASN:HB2	33:CE:304:THR:HA	1.97	0.45
30:DE:76:GLU:OE1	30:DE:76:GLU:N	2.48	0.45
35:1:167:U:H2'	35:1:168:U:C6	2.51	0.45
35:1:409:A:H61	37:4:15:G:H1'	1.80	0.45
35:1:1352:A:H1'	35:1:1353:U:H6	1.78	0.45
35:1:1798:A:H2'	35:1:1799:A:C8	2.51	0.45
35:1:1940:G:N2	35:1:3362:A:C8	2.79	0.45
35:1:2157:G:O6	31:j:152:SER:HB3	2.16	0.45
35:1:2430:A:H2'	35:1:2431:C:C6	2.52	0.45
35:1:2508:U:H2'	35:1:2509:U:C6	2.51	0.45
35:1:3168:A:H2'	35:1:3169:U:C6	2.51	0.45
36:3:19:C:H2'	36:3:20:A:C8	2.52	0.45
36:3:26:C:H2'	36:3:57:G:H22	1.81	0.45
37:4:67:U:H2'	37:4:68:G:C8	2.51	0.45
38:l:140:HIS:CD2	38:l:247:PHE:H	2.33	0.45
38:l:311:HIS:O	38:l:311:HIS:CD2	2.69	0.45
39:m:155:THR:N	39:m:179:ARG:HH11	2.14	0.45
39:m:231:ILE:HG23	39:m:235:SER:OG	2.16	0.45
40:n:146:ILE:O	40:n:150:LYS:HG2	2.16	0.45
42:p:95:ASN:O	42:p:98:ARG:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:s:108:GLU:HB3	45:s:111:ASP:OD1	2.16	0.45
55:5:98:THR:HG23	55:5:99:LYS:HG2	1.99	0.45
58:8:134:ASP:HA	58:8:137:ASN:OD1	2.16	0.45
67:AO:2:ARG:HB3	67:AO:5:TRP:CD1	2.51	0.45
68:AP:100:LYS:HD2	68:AP:100:LYS:H	1.79	0.45
35:AR:8:C:H2'	35:AR:9:U:O4'	2.16	0.45
35:AR:67:A:OP1	80:AR:3456:OHX:N2	2.49	0.45
35:AR:665:A:H1'	46:CN:14:PHE:CZ	2.50	0.45
35:AR:1114:U:O4	80:AR:4233:OHX:N6	2.49	0.45
35:AR:1583:A:H3'	35:AR:1584:U:C6	2.51	0.45
35:AR:1632:A:H2'	35:AR:1633:C:O4'	2.16	0.45
35:AR:1878:G:H5'	80:AR:3458:OHX:N3	2.32	0.45
35:AR:2102:U:H2'	35:AR:2103:U:C6	2.51	0.45
35:AR:2148:U:H2'	35:AR:2149:A:C5	2.51	0.45
35:AR:2233:A:H2'	35:AR:2234:G:O4'	2.16	0.45
35:AR:2289:U:H2'	35:AR:2290:C:H6	1.81	0.45
35:AR:2678:A:C4	70:sM:44:PRO:HA	2.51	0.45
35:AR:2881:C:H2'	35:AR:2882:U:C6	2.51	0.45
35:AR:3094:A:H2'	35:AR:3095:U:H6	1.78	0.45
39:CG:205:SER:OG	39:CG:206:GLN:N	2.49	0.45
41:CI:158:LYS:HD3	41:CI:159:GLN:H	1.80	0.45
43:CK:90:MET:HB2	43:CK:144:ILE:CG2	2.46	0.45
44:CL:4:ARG:NH1	44:CL:99:ILE:HG13	2.31	0.45
44:CL:38:LYS:HD3	44:CL:41:ALA:HB2	1.99	0.45
46:CN:122:LYS:HE3	46:CN:122:LYS:HB3	1.71	0.45
47:CO:47:ASP:OD1	47:CO:78:THR:HG23	2.16	0.45
47:CO:55:ARG:HD3	53:CU:70:THR:OG1	2.15	0.45
50:CR:29:THR:HG22	50:CR:87:SER:HB2	1.98	0.45
34:DG:8:LYS:HD2	34:DG:8:LYS:HA	1.58	0.45
59:DH:15:SER:HA	59:DH:94:PHE:CE1	2.51	0.45
59:DH:67:MET:HE2	59:DH:67:MET:HB3	1.83	0.45
62:DK:76:ARG:HH11	62:DK:76:ARG:HG2	1.81	0.45
64:DM:11:PHE:O	64:DM:14:LEU:HB2	2.16	0.45
71:p0:45:LEU:HG	71:p0:49:ALA:CB	2.38	0.45
74:c:50:ALA:C	74:c:52:THR:H	2.24	0.45
1:sR:1181:U:C5'	16:c5:130:ARG:HG3	2.46	0.45
1:sR:1217:A:H4'	12:c0:44:LYS:NZ	2.31	0.45
1:sR:1365:C:H5"	17:c6:28:LEU:HD13	1.98	0.45
1:sR:1565:C:OP1	19:c8:41:ARG:HD3	2.16	0.45
79:Rb:38:ARG:HA	79:Rb:67:ILE:HD13	1.97	0.45
5:s3:55:THR:OG1	5:s3:90:ARG:HD2	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:200:ARG:HG3	6:s4:206:ASP:CG	2.41	0.45
7:s5:167:ARG:HE	7:s5:167:ARG:HB3	1.53	0.45
7:s5:190:ILE:HA	7:s5:193:THR:CG2	2.46	0.45
8:s6:7:TYR:CE2	8:s6:125:THR:HA	2.51	0.45
10:s8:136:SER:O	10:s8:139:ALA:N	2.27	0.45
17:c6:109:PHE:O	17:c6:113:ASP:N	2.49	0.45
20:c9:127:ASN:HA	20:c9:130:ARG:HG2	1.98	0.45
22:d1:69:LEU:HD23	22:d1:69:LEU:HA	1.62	0.45
23:d2:24:GLN:HE21	74:d7:5:GLN:H	1.61	0.45
25:d4:89:TYR:O	25:d4:93:ARG:HG3	2.16	0.45
1:A:160:C:H2'	1:A:161:U:O4'	2.15	0.45
1:A:213:A:H2'	1:A:214:G:O4'	2.16	0.45
1:A:404:G:H2'	1:A:405:C:H6	1.81	0.45
1:A:448:C:O3'	6:F:29:PRO:HA	2.16	0.45
1:A:684:A:H5'	1:A:685:A:OP2	2.16	0.45
1:A:851:U:H2'	1:A:852:C:C5	2.51	0.45
1:A:1066:C:O3'	3:C:149:GLN:HB3	2.17	0.45
1:A:1133:A:N3	1:A:1650:U:O2'	2.37	0.45
2:B:14:ALA:O	2:B:18:LEU:HD12	2.16	0.45
2:B:84:ARG:O	2:B:88:LYS:HG2	2.16	0.45
3:C:110:LEU:O	3:C:114:VAL:HG12	2.14	0.45
4:D:67:GLN:HA	4:D:70:ASP:HB3	1.98	0.45
4:D:237:VAL:HG21	22:W:35:ASN:HD21	1.80	0.45
5:E:19:ALA:HB2	76:e:50:ILE:HD12	1.98	0.45
6:F:180:LEU:HG	6:F:228:ILE:HG13	1.97	0.45
7:G:58:LEU:HD22	7:G:168:VAL:HG12	1.97	0.45
7:G:134:VAL:O	7:G:138:THR:HG23	2.16	0.45
8:H:210:GLN:HA	8:H:213:ALA:HB3	1.97	0.45
10:J:26:LYS:O	10:J:26:LYS:HG3	2.16	0.45
10:J:31:ARG:HH22	10:J:48:THR:HA	1.80	0.45
13:M:44:THR:HG23	13:M:60:PHE:HB3	1.98	0.45
15:P:64:ALA:C	15:P:105:LEU:HD21	2.40	0.45
18:S:71:PHE:CE1	18:S:73:LEU:HD22	2.50	0.45
20:U:89:ARG:HB3	20:U:90:PRO:HD2	1.96	0.45
27:DA:69:LYS:HB3	27:DA:69:LYS:HE3	1.68	0.45
29:AC:46:ALA:O	29:AC:50:THR:HG23	2.15	0.45
33:CE:46:PHE:CE1	33:CE:205:VAL:HG22	2.51	0.45
35:1:625:G:H2'	35:1:626:U:C6	2.52	0.45
35:1:1103:A:N3	35:1:1103:A:H2'	2.31	0.45
35:1:1155:C:OP1	41:o:94:LYS:NZ	2.50	0.45
35:1:1802:C:H2'	35:1:1803:C:C6	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2115:G:H4'	52:z:79:GLY:O	2.16	0.45
35:1:2185:G:O2'	35:1:2314:U:OP2	2.34	0.45
35:1:2746:A:H2'	35:1:2747:A:O4'	2.16	0.45
35:1:3238:G:N7	80:1:3479:OHX:N4	2.64	0.45
37:4:58:G:O6	63:AK:63:ARG:NH1	2.39	0.45
31:j:60:LYS:HD3	31:j:73:GLU:OE2	2.16	0.45
33:k:37:ARG:O	33:k:186:GLY:HA2	2.16	0.45
33:k:60:LEU:CD2	33:k:62:ARG:HB2	2.35	0.45
38:l:126:ILE:HG13	38:l:238:LEU:CD1	2.46	0.45
38:l:179:LEU:O	38:l:183:LYS:HB2	2.15	0.45
39:m:234:ASP:OD1	39:m:234:ASP:N	2.48	0.45
42:p:139:VAL:O	42:p:143:ILE:HG13	2.16	0.45
54:2:127:GLN:HA	54:2:127:GLN:OE1	2.15	0.45
35:AR:201:A:H2'	35:AR:202:G:H8	1.81	0.45
35:AR:594:U:H2'	35:AR:609:G:O6	2.15	0.45
35:AR:1687:U:H1'	55:CW:75:TYR:CE2	2.51	0.45
35:AR:1945:A:H2'	35:AR:1946:A:C8	2.52	0.45
35:AR:2339:C:P	56:CX:48:ARG:HG3	2.57	0.45
35:AR:2761:G:H1'	35:AR:2800:G:N2	2.30	0.45
35:AR:3113:A:O2'	43:CK:66:ALA:O	2.34	0.45
35:AR:3319:U:O2'	35:AR:3320:A:OP1	2.32	0.45
40:CH:40:LEU:HD13	40:CH:54:TYR:HB2	1.97	0.45
42:CJ:154:ALA:HA	42:CJ:180:VAL:O	2.16	0.45
44:CL:161:GLY:O	44:CL:163:GLN:NE2	2.48	0.45
46:CN:61:PRO:O	46:CN:62:THR:OG1	2.35	0.45
52:CT:106:LEU:HD11	52:CT:138:LEU:HD11	1.98	0.45
60:DI:22:VAL:HG22	60:DI:30:LEU:HD22	1.98	0.45
69:DR:27:LYS:O	69:DR:31:ILE:HG13	2.16	0.45
73:b:23:CYS:SG	73:b:25:ASN:N	2.88	0.45
74:c:21:LEU:HA	74:c:21:LEU:HD23	1.70	0.45
79:h:265:LEU:HD22	79:h:265:LEU:O	2.16	0.45
1:sR:153:G:O5'	8:s6:15:THR:HG21	2.16	0.45
1:sR:259:U:H1'	10:s8:178:ARG:NH2	2.32	0.45
1:sR:926:A:H2'	1:sR:927:C:H6	1.81	0.45
1:sR:953:G:H2'	1:sR:954:G:C8	2.50	0.45
1:sR:1057:U:H3'	1:sR:1058:U:O4'	2.15	0.45
1:sR:1253:U:H2'	1:sR:1254:U:C6	2.51	0.45
1:sR:1277:G:H4'	5:s3:182:LEU:HA	1.97	0.45
79:Rb:161:LYS:HE3	79:Rb:163:ASP:CG	2.41	0.45
79:Rb:278:PHE:CE1	79:Rb:286:GLU:HG2	2.51	0.45
2:s0:74:VAL:HA	2:s0:96:THR:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:53:ILE:HG12	4:s2:73:LEU:HG	1.98	0.45
4:s2:116:LYS:HD2	4:s2:116:LYS:HA	1.77	0.45
5:s3:40:ARG:CD	21:d0:110:PRO:HB3	2.45	0.45
7:s5:46:TRP:CD2	7:s5:129:PRO:HG3	2.51	0.45
9:s7:116:ARG:HH11	9:s7:116:ARG:HG3	1.81	0.45
10:s8:48:THR:HB	10:s8:52:ASN:O	2.16	0.45
18:c7:58:MET:O	18:c7:61:ILE:HG13	2.16	0.45
25:d4:128:LYS:HA	25:d4:131:ARG:HB3	1.98	0.45
1:A:145:A:O2'	1:A:146:U:O5'	2.33	0.45
1:A:382:C:P	6:F:10:LYS:HD2	2.57	0.45
1:A:512:A:P	11:K:173:ALA:HB2	2.56	0.45
1:A:868:G:C2	1:A:869:A:C8	3.05	0.45
1:A:1514:U:H5"	1:A:1515:A:O4'	2.16	0.45
2:B:9:LEU:CD2	2:B:54:TRP:CD1	2.99	0.45
2:B:84:ARG:H	2:B:84:ARG:HD2	1.80	0.45
2:B:119:ARG:HH11	4:D:240:LEU:C	2.23	0.45
3:C:21:VAL:HB	3:C:26:ARG:HH22	1.81	0.45
4:D:143:TYR:HE1	4:D:151:PRO:CG	2.30	0.45
9:I:83:LYS:HD3	9:I:83:LYS:C	2.42	0.45
19:T:119:ILE:HG22	19:T:119:ILE:O	2.16	0.45
31:CD:8:GLN:HA	35:AR:2163:C:H4'	1.98	0.45
35:1:137:G:H2'	35:1:138:U:C6	2.51	0.45
35:1:728:G:H5"	51:y:43:PRO:HB2	1.98	0.45
35:1:985:U:H2'	35:1:986:U:H6	1.81	0.45
35:1:1078:U:H1'	35:1:1082:U:O2	2.16	0.45
35:1:1223:A:C2	35:1:1224:C:C6	3.04	0.45
35:1:1609:C:P	58:8:109:LYS:HE2	2.56	0.45
35:1:1872:C:H5'	52:z:58:HIS:HB2	1.97	0.45
35:1:2443:A:N3	35:1:2444:C:H5"	2.32	0.45
35:1:2623:G:C4	35:1:2624:G:C8	3.04	0.45
35:1:2918:G:H2'	35:1:2919:A:H8	1.81	0.45
35:1:3000:A:H2'	35:1:3001:C:H6	1.80	0.45
35:1:3174:A:OP1	59:AG:97:SER:OG	2.26	0.45
35:1:3376:A:H5'	35:1:3377:G:H5"	1.99	0.45
36:3:97:A:H2'	36:3:98:C:C6	2.51	0.45
39:m:56:THR:HG22	39:m:61:ILE:HD11	1.97	0.45
39:m:270:LYS:HA	39:m:273:ARG:HB3	1.98	0.45
41:o:223:PHE:HE2	53:0:35:VAL:HG21	1.82	0.45
43:q:79:ILE:O	43:q:82:VAL:HG12	2.17	0.45
50:x:92:GLN:HA	50:x:95:LEU:HD12	1.97	0.45
51:y:124:LEU:HD12	51:y:124:LEU:H	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:8:91:ASN:O	58:8:95:ILE:HG12	2.16	0.45
70:i:74:LYS:HE3	70:i:74:LYS:HB3	1.39	0.45
70:i:84:LYS:NZ	70:i:86:ASN:HB2	2.32	0.45
35:AR:18:G:H2'	35:AR:19:U:C6	2.51	0.45
35:AR:692:A:C4	35:AR:693:A:C8	3.05	0.45
35:AR:908:G:H4'	35:AR:909:G:O5'	2.16	0.45
35:AR:1334:U:H5'	41:CI:207:LEU:O	2.16	0.45
35:AR:2352:A:H2'	35:AR:2353:G:C8	2.50	0.45
35:AR:2396:G:OP1	35:AR:2397:A:H4'	2.17	0.45
39:CG:43:LYS:C	39:CG:44:TYR:CD1	2.94	0.45
44:CL:29:SER:OG	44:CL:31:ILE:O	2.34	0.45
50:CR:71:ALA:O	50:CR:74:LYS:HG3	2.16	0.45
51:CS:102:ALA:CB	51:CS:127:LEU:HD12	2.47	0.45
54:CV:18:ASP:O	54:CV:21:LYS:HB2	2.16	0.45
54:CV:56:PHE:C	54:CV:56:PHE:CD1	2.94	0.45
56:CX:104:ASN:HD21	56:CX:108:GLU:CD	2.24	0.45
58:CZ:73:MET:O	58:CZ:77:GLU:HG3	2.17	0.45
32:DF:6:ASP:O	32:DF:8:VAL:HG23	2.16	0.45
64:DM:8:ILE:O	64:DM:11:PHE:HB3	2.16	0.45
67:DP:4:LYS:HE3	1:sR:1774:G:N7	2.31	0.45
78:g:147:VAL:HG13	78:g:148:TYR:CD1	2.50	0.45
79:h:114:ASP:HB2	79:h:155:ARG:HA	1.98	0.45
1:sR:300:A:H2'	1:sR:301:A:C8	2.51	0.45
1:sR:509:G:H2'	1:sR:510:G:C1'	2.45	0.45
1:sR:650:U:H5'	11:s9:65:LYS:HE2	1.98	0.45
1:sR:871:G:O2'	74:d7:67:THR:O	2.32	0.45
1:sR:885:G:OP1	3:s1:136:ARG:NH1	2.49	0.45
1:sR:1098:U:O2'	23:d2:71:LYS:HD3	2.16	0.45
2:s0:41:ARG:NH1	2:s0:44:GLY:C	2.74	0.45
2:s0:123:VAL:HG11	2:s0:129:ASP:CB	2.46	0.45
5:s3:74:GLN:HB3	5:s3:84:ILE:HG21	1.98	0.45
5:s3:211:PRO:HG2	18:c7:72:LYS:NZ	2.31	0.45
5:s3:215:GLU:HA	5:s3:215:GLU:OE1	2.15	0.45
7:s5:45:LYS:HD3	7:s5:45:LYS:HA	1.62	0.45
7:s5:112:ARG:HH22	17:c6:42:GLU:HG2	1.81	0.45
9:s7:73:VAL:O	9:s7:75:THR:HG23	2.16	0.45
11:s9:36:LEU:HD11	11:s9:105:LEU:HD21	1.97	0.45
12:c0:24:LYS:O	12:c0:24:LYS:HG3	2.17	0.45
12:c0:29:GLN:HB3	12:c0:39:ASN:HB3	1.97	0.45
25:d4:12:VAL:HB	25:d4:23:PHE:HB3	1.97	0.45
1:A:125:U:H5"	6:F:148:ARG:NH1	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:575:C:H5'	70:i:102:THR:HG21	1.98	0.45
1:A:1097:U:O3'	4:D:159:THR:HG21	2.16	0.45
1:A:1183:A:C6	1:A:1184:A:N1	2.85	0.45
1:A:1477:G:H2'	1:A:1478:G:C8	2.52	0.45
1:A:1540:G:C4	1:A:1541:G:C8	3.05	0.45
1:A:1545:A:OP1	19:T:133:VAL:HG12	2.16	0.45
2:B:107:PHE:HB2	2:B:135:GLU:HG2	1.97	0.45
4:D:63:VAL:HG21	4:D:69:ILE:HD11	1.98	0.45
5:E:109:LEU:HD23	5:E:109:LEU:HA	1.75	0.45
5:E:136:VAL:HG13	5:E:152:PHE:HB2	1.99	0.45
9:I:38:LEU:C	9:I:41:LEU:HD23	2.41	0.45
9:I:57:ALA:HB2	9:I:89:HIS:CD2	2.52	0.45
9:I:128:ASP:O	9:I:131:PHE:CE1	2.66	0.45
16:Q:75:PRO:HG3	35:1:1025:A:C2	2.51	0.45
17:R:131:GLY:HA2	17:R:138:PHE:CE1	2.52	0.45
18:S:84:TYR:CD1	18:S:85:VAL:N	2.76	0.45
20:U:58:ALA:C	20:U:61:VAL:HG12	2.41	0.45
20:U:105:LEU:HD11	20:U:114:VAL:HG21	1.98	0.45
21:V:20:ILE:CD1	21:V:21:LYS:N	2.76	0.45
22:W:56:SER:O	22:W:59:VAL:HG22	2.15	0.45
26:AA:36:HIS:HB2	26:AA:38:PHE:CZ	2.52	0.45
28:AB:115:LYS:HD2	35:1:715:A:C8	2.51	0.45
26:DB:29:HIS:HB2	26:DB:40:HIS:O	2.16	0.45
33:CE:81:THR:OG1	33:CE:205:VAL:HG21	2.16	0.45
33:CE:114:VAL:O	33:CE:117:ARG:HB3	2.16	0.45
33:CE:132:LYS:NZ	35:AR:3292:A:H4'	2.30	0.45
33:CE:385:LYS:NZ	35:AR:3328:G:OP1	2.48	0.45
35:1:92:G:N7	83:1:4106:SPD:H52	2.32	0.45
35:1:563:U:H2'	35:1:564:G:C8	2.51	0.45
35:1:952:A:H4'	35:1:968:G:N2	2.32	0.45
35:1:1138:U:H2'	35:1:1139:G:O4'	2.16	0.45
35:1:1714:A:C2	35:1:1731:A:C4	3.04	0.45
35:1:2244:A:H5"	31:j:243:THR:OG1	2.16	0.45
35:1:2790:A:O2'	80:1:4147:OHX:N6	2.49	0.45
36:3:43:U:H4'	45:s:140:ARG:O	2.15	0.45
33:k:98:GLY:HA2	49:w:149:TYR:CE2	2.51	0.45
42:p:91:PHE:HE2	42:p:185:ARG:NE	2.14	0.45
43:q:92:TYR:HD1	43:q:142:ASP:O	1.99	0.45
45:s:156:LYS:O	45:s:159:THR:HG22	2.16	0.45
48:v:22:LEU:O	48:v:26:ARG:HG3	2.17	0.45
49:w:62:THR:H	49:w:69:GLY:HA3	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:283:G:O6	35:AR:304:G:H1'	2.15	0.45
35:AR:284:A:H4'	35:AR:285:A:N3	2.31	0.45
35:AR:1040:A:O2'	44:CL:198:LYS:HE2	2.16	0.45
35:AR:1312:C:H2'	35:AR:1313:G:O4'	2.17	0.45
35:AR:1388:U:O2'	34:DG:99:ASN:O	2.27	0.45
35:AR:1481:A:O2'	35:AR:1858:A:N3	2.41	0.45
35:AR:1483:G:C8	35:AR:1485:G:C8	3.04	0.45
35:AR:1528:G:H2'	35:AR:1529:A:H8	1.81	0.45
35:AR:1534:A:OP1	80:AR:3424:OHX:N2	2.49	0.45
35:AR:2361:A:H2'	35:AR:2362:C:C6	2.51	0.45
35:AR:2667:A:H61	35:AR:2687:G:H1'	1.81	0.45
35:AR:3095:U:H2'	35:AR:3096:C:C6	2.50	0.45
39:CG:178:ASN:HA	39:CG:183:TRP:CD2	2.52	0.45
40:CH:60:ASP:HB3	40:CH:103:VAL:HG21	1.98	0.45
40:CH:175:LYS:HD3	40:CH:175:LYS:HA	1.64	0.45
45:CM:49:LYS:CB	45:CM:64:LYS:H	2.27	0.45
47:CO:22:LEU:HB3	47:CO:64:VAL:HG13	1.98	0.45
60:DI:46:ASP:OD2	60:DI:88:ARG:NH2	2.38	0.45
61:DJ:41:LEU:HD12	61:DJ:41:LEU:HA	1.72	0.45
65:DN:28:ARG:HA	65:DN:33:ASN:HD22	1.80	0.45
1:sR:87:C:O2'	1:sR:169:A:N1	2.48	0.45
1:sR:839:U:H4'	13:c1:26:LYS:NZ	2.31	0.45
1:sR:902:G:N2	1:sR:906:A:H5"	2.31	0.45
1:sR:1005:A:H2'	1:sR:1006:C:C6	2.52	0.45
1:sR:1151:A:O3'	1:sR:1766:A:N6	2.50	0.45
79:Rb:200:ASN:HD21	79:Rb:216:LYS:CG	2.30	0.45
3:s1:74:GLN:NE2	3:s1:189:ILE:HG21	2.21	0.45
5:s3:76:ARG:HD3	12:c0:63:TYR:CD2	2.52	0.45
7:s5:20:PHE:CE1	7:s5:22:PRO:HB3	2.52	0.45
7:s5:43:PHE:CD2	7:s5:46:TRP:HD1	2.32	0.45
7:s5:45:LYS:O	7:s5:46:TRP:CG	2.69	0.45
8:s6:30:LYS:O	8:s6:102:VAL:HG23	2.16	0.45
10:s8:143:TRP:CD1	10:s8:143:TRP:N	2.85	0.45
12:c0:55:VAL:HB	12:c0:68:LEU:HD23	1.97	0.45
17:c6:10:PHE:HA	17:c6:18:ALA:O	2.17	0.45
18:c7:103:ASP:H	18:c7:106:THR:HG1	1.59	0.45
19:c8:8:GLN:O	19:c8:10:SER:N	2.49	0.45
19:c8:88:ARG:HH11	19:c8:91:ASP:HB2	1.81	0.45
19:c8:116:LEU:HG	19:c8:124:GLY:CA	2.46	0.45
72:d5:84:GLU:O	72:d5:84:GLU:HG3	2.17	0.45
1:A:411:C:H2'	1:A:412:A:O4'	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:560:U:C2	1:A:561:G:C8	3.05	0.45
1:A:649:U:O2'	1:A:650:U:O4'	2.35	0.45
1:A:967:A:H2'	1:A:968:U:O4'	2.16	0.45
1:A:1354:G:H3'	1:A:1355:C:H6	1.81	0.45
1:A:1459:C:N4	19:T:139:LYS:HD3	2.32	0.45
1:A:1584:G:O2'	1:A:1610:G:O6	2.31	0.45
1:A:1765:A:C8	1:A:1768:G:N2	2.84	0.45
2:B:55:GLU:CB	22:W:79:LEU:HD22	2.46	0.45
2:B:185:ARG:CA	22:W:44:ARG:HA	2.46	0.45
3:C:192:VAL:HG13	3:C:196:GLU:OE2	2.16	0.45
5:E:113:LEU:HD23	5:E:117:ARG:HD3	1.98	0.45
7:G:124:LEU:HB2	72:a:58:ARG:HD2	1.97	0.45
13:M:37:ASN:ND2	13:M:44:THR:OG1	2.49	0.45
14:O:88:LEU:O	14:O:92:ILE:HG13	2.16	0.45
17:R:12:LYS:H	17:R:83:GLN:NE2	2.13	0.45
19:T:35:ILE:CG2	19:T:102:ALA:HB2	2.47	0.45
24:Y:131:SER:O	24:Y:132:LEU:C	2.60	0.45
25:Z:62:THR:HA	25:Z:69:SER:HA	1.99	0.45
28:AB:144:VAL:HG12	46:t:159:VAL:HG23	1.97	0.45
28:DC:45:MET:O	28:DC:49:HIS:N	2.50	0.45
33:CE:59:ASP:OD1	33:CE:71:GLU:HG2	2.16	0.45
35:1:415:G:H2'	35:1:416:A:C8	2.52	0.45
35:1:580:C:H2'	35:1:581:U:O4'	2.16	0.45
35:1:584:G:H2'	35:1:585:A:C8	2.51	0.45
35:1:1334:U:C1'	41:o:208:SER:HB2	2.46	0.45
35:1:2129:U:H2'	35:1:2130:G:C8	2.52	0.45
35:1:2152:A:H2'	35:1:2153:U:H6	1.82	0.45
33:k:306:THR:HG22	33:k:317:ILE:H	1.80	0.45
39:m:38:THR:O	39:m:48:LYS:HD2	2.17	0.45
40:n:157:GLN:HA	40:n:160:SER:OG	2.17	0.45
41:o:156:ILE:O	41:o:159:GLN:CB	2.61	0.45
41:o:160:ARG:HD2	41:o:203:TRP:CD1	2.52	0.45
41:o:223:PHE:CE2	53:0:35:VAL:HG21	2.51	0.45
44:r:31:ILE:HB	44:r:66:GLU:HB2	1.99	0.45
45:s:21:ILE:CD1	45:s:37:LEU:CD2	2.93	0.45
45:s:115:LYS:HG2	45:s:116:TYR:N	2.29	0.45
46:t:132:ALA:O	46:t:134:GLU:N	2.39	0.45
57:7:13:ILE:O	57:7:13:ILE:HG13	2.16	0.45
68:AP:4:VAL:HG13	68:AP:5:PRO:HD2	1.98	0.45
35:AR:359:U:H2'	35:AR:360:G:O4'	2.16	0.45
35:AR:817:A:C4	63:DL:13:ASN:O	2.68	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:988:U:H2'	35:AR:989:A:H8	1.81	0.45
35:AR:1011:A:H2'	35:AR:1012:G:H8	1.79	0.45
35:AR:2435:G:N2	35:AR:2514:U:O4	2.48	0.45
38:CF:185:LYS:HE2	38:CF:199:TRP:HB3	1.97	0.45
39:CG:76:ALA:CB	39:CG:109:THR:HG22	2.45	0.45
39:CG:88:ILE:HG12	39:CG:240:TYR:CE1	2.52	0.45
41:CI:153:PHE:HD2	41:CI:160:ARG:HG3	1.82	0.45
42:CJ:200:LEU:HD23	42:CJ:200:LEU:HA	1.64	0.45
43:CK:134:ILE:HD11	43:CK:146:LEU:HD23	1.98	0.45
48:CP:24:ARG:HE	48:CP:24:ARG:HB2	1.39	0.45
52:CT:95:TRP:CE2	52:CT:99:LEU:HD12	2.52	0.45
59:DH:9:VAL:HG21	59:DH:44:TYR:CE2	2.52	0.45
60:DI:98:GLN:NE2	60:DI:102:LYS:HE3	2.30	0.45
68:DQ:96:GLU:O	68:DQ:96:GLU:CG	2.65	0.45
71:p0:189:GLN:HG3	71:p0:190:VAL:N	2.25	0.45
73:b:30:ILE:HG23	73:b:35:ALA:HB2	1.98	0.45
74:c:67:THR:HG21	74:c:70:LYS:O	2.16	0.45
1:sR:46:A:N1	1:sR:432:G:O2'	2.44	0.45
1:sR:82:U:OP2	80:sR:1954:OHX:N6	2.49	0.45
1:sR:900:A:H3'	1:sR:901:G:H21	1.80	0.45
1:sR:1287:A:H4'	1:sR:1288:G:OP1	2.16	0.45
1:sR:1498:G:H2'	1:sR:1499:G:C8	2.52	0.45
1:sR:1516:A:C8	21:d0:58:LEU:HD23	2.51	0.45
1:sR:1625:C:H2'	1:sR:1626:U:H6	1.82	0.45
2:s0:14:ALA:HA	2:s0:17:LEU:HD13	1.99	0.45
5:s3:74:GLN:HA	5:s3:79:TYR:HB2	1.98	0.45
5:s3:208:ILE:CD1	18:c7:16:LEU:HD12	2.46	0.45
9:s7:25:VAL:O	9:s7:28:GLU:HB2	2.16	0.45
17:c6:26:LYS:HA	17:c6:61:SER:O	2.16	0.45
18:c7:72:LYS:HB3	18:c7:73:LEU:HD22	1.99	0.45
23:d2:32:LYS:O	23:d2:35:ILE:HG13	2.16	0.45
25:d4:50:ALA:O	25:d4:54:ALA:HB3	2.17	0.45
72:d5:85:LYS:HD3	72:d5:86:GLU:HG2	1.98	0.45
73:d6:20:PRO:HA	73:d6:31:PRO:HA	1.99	0.45
1:A:160:C:O2'	8:H:95:LYS:HE2	2.17	0.45
1:A:251:A:C2	6:F:131:LEU:HD13	2.48	0.45
1:A:283:U:H5"	8:H:188:ARG:CD	2.46	0.45
1:A:525:A:H2'	1:A:526:A:C8	2.52	0.45
1:A:1086:A:H2'	1:A:1087:A:C8	2.52	0.45
1:A:1200:G:H4'	1:A:1201:G:C5'	2.47	0.45
1:A:1341:A:OP1	79:h:63:GLY:HA2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1417:A:OP1	80:A:2133:OHX:N1	2.50	0.45
1:A:1429:G:N2	21:V:72:ASN:HD21	2.13	0.45
1:A:1563:C:H2'	1:A:1564:U:H6	1.81	0.45
3:C:198:GLU:HA	3:C:201:THR:OG1	2.17	0.45
5:E:196:ARG:HD2	5:E:197:THR:OG1	2.16	0.45
8:H:187:LYS:HA	8:H:190:GLN:OE1	2.17	0.45
9:I:148:LYS:C	9:I:149:ILE:HD12	2.42	0.45
10:J:138:ASN:O	10:J:141:ARG:HG3	2.16	0.45
18:S:21:TYR:HA	18:S:58:MET:CE	2.46	0.45
18:S:46:LEU:O	18:S:50:ILE:HG13	2.17	0.45
19:T:28:ILE:HD12	19:T:61:LEU:HG	1.98	0.45
19:T:115:ARG:C	19:T:119:ILE:HD12	2.42	0.45
20:U:105:LEU:CD1	20:U:122:ARG:HD3	2.46	0.45
21:V:15:GLN:N	21:V:15:GLN:CD	2.75	0.45
21:V:102:ARG:HA	21:V:105:GLN:CG	2.46	0.45
23:X:78:ARG:HD2	23:X:126:LEU:HD23	1.99	0.45
26:AA:48:ARG:HB2	26:AA:69:LYS:HB3	1.97	0.45
26:AA:95:VAL:HG13	26:AA:96:VAL:H	1.81	0.45
28:AB:4:ARG:HD2	28:AB:5:PHE:CE1	2.52	0.45
26:DB:8:GLY:O	26:DB:87:LEU:N	2.46	0.45
32:AE:80:ASN:ND2	32:AE:85:ALA:HB3	2.31	0.45
33:CE:128:LYS:O	33:CE:131:THR:HG23	2.16	0.45
35:1:629:U:H2'	35:1:630:A:H8	1.82	0.45
35:1:689:U:O4	38:l:209:TYR:HE2	1.99	0.45
35:1:718:G:N2	35:1:721:G:H1'	2.31	0.45
35:1:1262:G:H2'	35:1:1264:G:C8	2.52	0.45
35:1:1394:A:N6	35:1:1416:C:O2'	2.50	0.45
35:1:1460:A:H2'	35:1:1461:A:C8	2.51	0.45
35:1:1715:A:H1'	35:1:1716:U:H3'	1.99	0.45
35:1:1738:C:H1'	60:AH:52:GLN:HB2	1.99	0.45
35:1:2985:C:H2'	35:1:2986:U:C6	2.52	0.45
36:3:65:G:H4'	44:r:204:GLY:C	2.41	0.45
39:m:232:ASP:OD1	39:m:232:ASP:N	2.49	0.45
44:r:16:PRO:HD3	44:r:128:ARG:NH2	2.31	0.45
46:t:116:LEU:HD23	46:t:116:LEU:HA	1.79	0.45
46:t:182:ILE:H	46:t:182:ILE:HD12	1.82	0.45
50:x:48:LEU:HD23	50:x:92:GLN:HB3	1.97	0.45
51:y:59:ARG:O	51:y:59:ARG:HG3	2.17	0.45
57:7:52:THR:O	57:7:56:ARG:HG3	2.16	0.45
66:AN:90:ASN:N	66:AN:90:ASN:HD22	2.14	0.45
35:AR:109:A:H4'	35:AR:110:G:OP1	2.15	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:361:A:H5'	63:DL:35:SER:OG	2.16	0.45
35:AR:1018:G:H5"	70:sM:46:LYS:O	2.17	0.45
35:AR:1494:U:P	65:DN:42:ARG:HH22	2.40	0.45
35:AR:1744:G:H2'	35:AR:1745:C:C6	2.51	0.45
35:AR:1805:C:H4'	60:DI:76:TYR:C	2.41	0.45
35:AR:2658:G:OP2	80:AR:3409:OHX:N5	2.49	0.45
35:AR:2714:G:H2'	35:AR:2751:G:H21	1.81	0.45
35:AR:3159:C:H4'	35:AR:3395:G:C5	2.51	0.45
38:CF:154:THR:HG22	38:CF:253:ALA:H	1.82	0.45
38:CF:359:LEU:HA	53:CU:8:GLN:HE22	1.82	0.45
44:CL:42:THR:HG23	44:CL:192:ASP:OD2	2.17	0.45
45:CM:122:ILE:HD12	45:CM:122:ILE:O	2.16	0.45
45:CM:132:ASN:HD22	45:CM:136:ALA:CB	2.30	0.45
55:CW:86:LYS:O	55:CW:86:LYS:HD2	2.16	0.45
60:DI:54:ILE:HD11	60:DI:71:THR:HA	1.99	0.45
1:sR:475:A:H2'	1:sR:476:U:O4'	2.17	0.45
1:sR:602:U:H2'	1:sR:603:U:C6	2.52	0.45
1:sR:1153:G:H2'	1:sR:1154:G:O4'	2.16	0.45
1:sR:1371:A:H5'	1:sR:1372:U:OP2	2.17	0.45
1:sR:1394:G:OP1	79:Rb:282:SER:HB3	2.17	0.45
1:sR:1535:U:O2'	1:sR:1536:G:OP2	2.30	0.45
2:s0:95:ALA:O	2:s0:96:THR:C	2.57	0.45
2:s0:183:ARG:HA	2:s0:188:LEU:CB	2.47	0.45
4:s2:187:LEU:HD23	4:s2:188:LEU:HD23	1.98	0.45
6:s4:207:LEU:CD2	6:s4:221:ARG:HG2	2.46	0.45
9:s7:46:ILE:O	9:s7:47:ARG:HD3	2.17	0.45
12:c0:31:LYS:HD3	12:c0:31:LYS:HA	1.70	0.45
20:c9:84:LYS:HB2	20:c9:94:ILE:HG12	1.99	0.45
21:d0:32:LYS:HB2	21:d0:33:GLN:OE1	2.17	0.45
24:d3:43:PHE:C	24:d3:45:GLY:H	2.24	0.45
1:A:78:A:H4'	8:H:159:ARG:HH22	1.81	0.45
1:A:246:G:H1'	13:M:40:LEU:HD23	1.99	0.45
1:A:702:G:C6	1:A:737:A:N6	2.84	0.45
1:A:739:G:H2'	1:A:740:A:C8	2.51	0.45
1:A:839:U:H5"	13:M:28:SER:OG	2.16	0.45
1:A:1148:C:H2'	1:A:1149:G:H8	1.82	0.45
1:A:1294:G:H4'	2:B:109:ASN:N	2.30	0.45
1:A:1408:G:H2'	1:A:1409:G:O4'	2.17	0.45
1:A:1487:A:OP1	76:e:34:TYR:OH	2.35	0.45
1:A:1617:U:O2'	1:A:1618:C:H5'	2.16	0.45
2:B:169:SER:CB	2:B:172:LEU:HD12	2.47	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:36:SER:O	3:C:38:PHE:N	2.48	0.45
6:F:129:VAL:HG23	6:F:139:VAL:HG12	1.99	0.45
7:G:116:HIS:O	7:G:119:ASP:N	2.50	0.45
8:H:110:ALA:O	8:H:111:LEU:HD12	2.17	0.45
15:P:20:TYR:HE2	15:P:84:ARG:NH2	2.15	0.45
20:U:43:ASN:OD1	20:U:44:GLU:N	2.50	0.45
21:V:32:LYS:HD2	21:V:32:LYS:HA	1.83	0.45
22:W:74:GLN:HE21	22:W:79:LEU:C	2.25	0.45
25:Z:87:PRO:O	25:Z:91:LEU:HD13	2.16	0.45
28:AB:125:VAL:HG21	28:AB:138:ILE:HD13	1.99	0.45
35:1:1071:U:O2'	35:1:1072:G:OP2	2.33	0.45
35:1:1556:C:H5"	35:1:2169:G:N2	2.32	0.45
35:1:2266:U:H2'	35:1:2267:C:C6	2.52	0.45
35:1:2534:G:H1	35:1:2545:C:H42	1.63	0.45
35:1:2562:A:N3	42:p:30:THR:N	2.63	0.45
37:4:27:U:H2'	37:4:28:C:H6	1.81	0.45
31:j:28:LYS:HD3	31:j:123:ARG:HB2	1.99	0.45
33:k:172:ALA:HA	80:k:403:OHX:N4	2.32	0.45
39:m:104:LEU:HD11	39:m:108:ARG:NH2	2.31	0.45
39:m:211:LEU:HD12	39:m:211:LEU:HA	1.82	0.45
41:o:38:LYS:HD3	41:o:38:LYS:C	2.42	0.45
41:o:232:ARG:HB2	41:o:235:PHE:HB2	1.99	0.45
44:r:46:PHE:HB2	44:r:139:ARG:HG3	1.98	0.45
45:s:101:ASN:OD1	45:s:101:ASN:N	2.49	0.45
46:t:28:GLN:OE1	48:v:201:ARG:NH1	2.38	0.45
53:0:73:LYS:HE3	53:0:97:VAL:O	2.16	0.45
56:6:89:ASP:OD1	56:6:91:VAL:HG22	2.17	0.45
61:AI:52:ALA:O	61:AI:56:THR:OG1	2.30	0.45
68:AP:61:LYS:HE3	68:AP:63:LYS:O	2.17	0.45
35:AR:524:U:OP1	47:CO:77:ARG:NH2	2.44	0.45
35:AR:900:G:H2'	35:AR:901:G:H8	1.82	0.45
35:AR:1190:A:C8	35:AR:1193:A:H1'	2.52	0.45
35:AR:1234:G:OP2	35:AR:1235:U:H3'	2.16	0.45
35:AR:1349:G:H2'	35:AR:1350:A:C4	2.51	0.45
35:AR:1948:G:C2	35:AR:1949:G:C8	3.04	0.45
35:AR:2854:U:P	44:CL:3:ARG:HH22	2.39	0.45
35:AR:2899:C:O2	43:CK:173:ARG:NH2	2.50	0.45
35:AR:3156:U:H4'	35:AR:3157:U:OP2	2.17	0.45
35:AR:3277:U:OP2	35:AR:3278:C:N4	2.50	0.45
38:CF:174:ALA:O	38:CF:178:LEU:HD12	2.16	0.45
42:CJ:68:ARG:O	42:CJ:236:GLY:HA2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:CJ:206:GLU:HG2	42:CJ:207:ASP:H	1.81	0.45
44:CL:25:ALA:O	44:CL:122:PRO:HG2	2.16	0.45
51:CS:62:VAL:O	51:CS:87:VAL:HA	2.17	0.45
51:CS:98:LYS:HG3	51:CS:118:GLY:O	2.16	0.45
1:sR:403:G:H8	1:sR:403:G:P	2.40	0.45
1:sR:961:U:H2'	1:sR:962:C:C6	2.52	0.45
1:sR:1435:G:H4'	1:sR:1436:A:H5'	1.98	0.45
2:s0:31:VAL:HA	2:s0:34:GLU:OE2	2.17	0.45
2:s0:116:LYS:HA	2:s0:116:LYS:HD2	1.80	0.45
3:s1:194:ASN:OD1	3:s1:194:ASN:N	2.46	0.45
5:s3:122:VAL:O	5:s3:126:VAL:HG12	2.17	0.45
6:s4:35:PRO:HB3	6:s4:143:ASP:O	2.17	0.45
7:s5:146:THR:OG1	7:s5:157:ARG:HB2	2.17	0.45
8:s6:154:ARG:HH11	8:s6:154:ARG:HG3	1.81	0.45
9:s7:77:LEU:HD22	9:s7:92:PHE:CZ	2.50	0.45
10:s8:151:LYS:HD3	10:s8:151:LYS:HA	1.47	0.45
11:s9:145:SER:O	11:s9:145:SER:OG	2.31	0.45
18:c7:37:GLU:O	18:c7:37:GLU:HG3	2.16	0.45
18:c7:53:TYR:CZ	18:c7:57:LEU:HD21	2.51	0.45
20:c9:14:PHE:HZ	20:c9:132:LEU:HD23	1.82	0.45
72:d5:47:TYR:O	72:d5:48:ASP:C	2.60	0.45
74:d7:36:LYS:CD	74:d7:43:ILE:HA	2.47	0.45
77:e0:62:VAL:O	77:e0:63:GLN:HG2	2.16	0.45
1:A:591:A:H5"	11:K:24:LEU:HD21	1.99	0.45
1:A:1333:C:H4'	5:E:162:GLN:HG2	1.99	0.45
3:C:183:GLN:HG2	3:C:187:LYS:HE2	1.99	0.45
8:H:10:ASN:HB2	8:H:12:SER:OG	2.16	0.45
10:J:117:TYR:HE2	10:J:146:ARG:O	2.00	0.45
11:K:18:PRO:HG2	11:K:19:TYR:HD1	1.80	0.45
12:L:82:LEU:HD23	12:L:82:LEU:HA	1.76	0.45
15:P:111:ARG:HG3	73:b:57:SER:CA	2.46	0.45
20:U:10:ALA:HB3	20:U:13:ASP:OD1	2.17	0.45
20:U:30:VAL:HG22	20:U:54:PHE:HD2	1.81	0.45
25:Z:114:ARG:HG3	25:Z:117:LYS:HZ1	1.81	0.45
28:AB:21:ARG:HB3	35:1:641:C:OP1	2.16	0.45
26:DB:72:ILE:O	26:DB:72:ILE:HD12	2.16	0.45
26:DB:87:LEU:HA	26:DB:87:LEU:HD23	1.29	0.45
33:CE:67:PHE:CZ	56:CX:88:ARG:HB2	2.52	0.45
35:1:246:U:H2'	35:1:247:C:C6	2.52	0.45
35:1:625:G:H2'	35:1:626:U:H6	1.82	0.45
35:1:846:A:OP1	35:1:846:A:H8	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1350:A:C8	35:1:1351:U:C5	3.04	0.45
35:1:1927:G:C8	69:AQ:16:VAL:HG22	2.52	0.45
35:1:2436:U:O4	80:1:3498:OHX:N5	2.50	0.45
35:1:2947:G:H2'	35:1:2948:C:H6	1.81	0.45
35:1:2986:U:C2	35:1:2987:A:C8	3.05	0.45
35:1:3017:A:H2'	35:1:3018:C:C6	2.51	0.45
35:1:3198:U:O4	43:q:26:LYS:HB2	2.17	0.45
35:1:3384:U:H2'	35:1:3385:U:C6	2.51	0.45
37:4:59:A:H5"	37:4:61:A:C8	2.51	0.45
33:k:379:PHE:C	33:k:379:PHE:CD1	2.95	0.45
38:l:104:LYS:HD2	38:l:106:TRP:CZ2	2.50	0.45
43:q:86:TYR:CE2	43:q:151:VAL:HB	2.52	0.45
44:r:35:ASP:C	44:r:36:LEU:HD23	2.41	0.45
44:r:216:TYR:CG	44:r:217:PHE:N	2.84	0.45
45:s:89:TYR:HB3	45:s:169:ALA:HB1	1.97	0.45
48:v:70:ASN:HB3	48:v:92:LEU:O	2.17	0.45
53:0:3:HIS:HA	53:0:104:GLU:OE1	2.16	0.45
60:AH:5:VAL:HG22	60:AH:6:THR:H	1.82	0.45
66:AN:89:TYR:O	66:AN:93:LYS:HE2	2.17	0.45
68:AP:73:GLU:CD	68:AP:80:ARG:NH2	2.75	0.45
35:AR:19:U:H4'	48:CP:138:GLN:NE2	2.31	0.45
35:AR:150:A:C4	35:AR:151:A:C8	3.04	0.45
35:AR:251:G:H1'	35:AR:253:A:C8	2.52	0.45
35:AR:826:G:C5	35:AR:900:G:O6	2.70	0.45
35:AR:1362:G:O4'	41:CI:159:GLN:HG3	2.17	0.45
35:AR:1565:G:H2'	35:AR:1566:A:H8	1.80	0.45
35:AR:1622:U:C2	35:AR:1623:G:C8	3.04	0.45
35:AR:1699:A:C6	35:AR:1747:G:C6	3.04	0.45
35:AR:3110:C:H2'	35:AR:3111:U:C6	2.51	0.45
35:AR:3165:A:H61	35:AR:3285:C:H42	1.64	0.45
35:AR:3348:G:H1	35:AR:3357:U:H3	1.64	0.45
37:AT:6:U:C2	37:AT:7:U:C5	3.05	0.45
40:CH:36:PRO:HA	40:CH:54:TYR:CD2	2.51	0.45
43:CK:176:LEU:HB3	66:DO:86:ALA:HB1	1.99	0.45
46:CN:69:VAL:HG12	46:CN:149:GLN:OE1	2.17	0.45
46:CN:137:GLN:O	46:CN:137:GLN:HG3	2.16	0.45
47:CO:26:GLY:O	47:CO:29:ALA:HB2	2.16	0.45
47:CO:92:GLU:OE1	47:CO:92:GLU:N	2.45	0.45
53:CU:92:LYS:HE2	53:CU:92:LYS:HB3	1.84	0.45
57:CY:57:LYS:O	57:CY:60:LYS:HD2	2.17	0.45
59:DH:47:LYS:NZ	59:DH:105:SER:HA	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:p0:11:TYR:OH	71:p0:54:GLY:HA3	2.17	0.45
70:sM:68:ARG:NH1	70:sM:69:ARG:HB2	2.32	0.45
74:c:36:LYS:HE2	74:c:43:ILE:CG2	2.47	0.45
78:g:103:LEU:HG	78:g:105:TYR:CD1	2.50	0.45
1:sR:121:U:H1'	6:s4:33:ALA:O	2.17	0.45
1:sR:140:A:O2'	8:s6:149:LYS:HE3	2.17	0.45
1:sR:343:C:H2'	1:sR:344:A:H8	1.82	0.45
1:sR:446:A:C6	1:sR:447:U:C4	3.05	0.45
1:sR:585:A:H2'	1:sR:586:G:H8	1.82	0.45
1:sR:621:A:N3	1:sR:1107:G:H1'	2.32	0.45
4:s2:159:THR:HB	4:s2:168:ARG:HG3	1.98	0.45
5:s3:101:GLN:HA	5:s3:104:SER:CB	2.43	0.45
6:s4:95:THR:O	6:s4:95:THR:OG1	2.33	0.45
10:s8:138:ASN:HA	10:s8:141:ARG:NE	2.32	0.45
11:s9:20:GLU:O	11:s9:24:LEU:HD23	2.16	0.45
11:s9:103:ASP:OD1	11:s9:103:ASP:N	2.50	0.45
13:c1:8:GLN:HE22	13:c1:14:GLN:HB2	1.82	0.45
13:c1:67:ARG:N	13:c1:67:ARG:HD3	2.32	0.45
15:c4:18:ARG:HH11	15:c4:18:ARG:HG3	1.81	0.45
15:c4:47:LYS:HZ3	15:c4:62:LEU:C	2.25	0.45
15:c4:137:LEU:HD22	15:c4:137:LEU:HA	1.86	0.45
23:d2:41:MET:HE3	23:d2:129:VAL:HG13	1.99	0.45
1:A:66:U:H5'	8:H:173:PRO:HA	1.99	0.45
1:A:123:G:H21	6:F:146:THR:HG21	1.82	0.45
1:A:182:A:H2'	1:A:183:U:C6	2.52	0.45
1:A:327:U:H4'	13:M:14:GLN:HE22	1.81	0.45
1:A:531:C:C2'	1:A:532:U:H5'	2.46	0.45
1:A:733:A:O2'	1:A:735:C:H5	2.00	0.45
1:A:1414:U:H4'	1:A:1415:U:OP2	2.17	0.45
1:A:1525:A:N1	1:A:1608:U:H1'	2.32	0.45
1:A:1541:G:H2'	1:A:1542:G:C4	2.52	0.45
1:A:1722:A:OP2	80:A:1923:OHX:N2	2.50	0.45
5:E:123:VAL:HG23	5:E:134:CYS:SG	2.56	0.45
7:G:31:GLU:HA	7:G:34:GLN:HB2	1.98	0.45
10:J:81:VAL:HG22	10:J:102:VAL:HG12	1.99	0.45
14:O:18:TYR:HE2	23:X:54:ASP:O	1.99	0.45
17:R:23:LYS:O	17:R:64:ASP:N	2.50	0.45
17:R:46:PHE:HA	17:R:49:TYR:HB2	1.98	0.45
18:S:27:ASP:O	18:S:31:ASN:OD1	2.34	0.45
25:Z:78:SER:OG	25:Z:79:VAL:N	2.50	0.45
26:AA:33:SER:HB3	26:AA:36:HIS:O	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DD:21:ILE:HA	54:CV:82:ASN:O	2.17	0.45
30:DE:26:GLY:HA3	35:AR:1730:G:C6	2.51	0.45
35:1:536:U:H2'	35:1:537:A:C8	2.51	0.45
35:1:547:G:H4'	35:1:548:G:OP1	2.15	0.45
35:1:954:U:O4	35:1:1115:G:H1'	2.17	0.45
35:1:1100:U:H2'	35:1:1101:G:O4'	2.17	0.45
35:1:1273:A:HO2'	35:1:1274:A:P	2.40	0.45
35:1:1333:C:C2	35:1:1334:U:C5	3.04	0.45
35:1:1688:U:H2'	35:1:1689:U:C6	2.51	0.45
35:1:2165:G:OP1	80:1:3502:OHX:N4	2.50	0.45
35:1:2289:U:H2'	35:1:2290:C:H6	1.82	0.45
35:1:2622:C:N4	44:r:116:ARG:HH12	2.14	0.45
35:1:2726:C:C5	80:1:4131:OHX:N3	2.85	0.45
35:1:3218:A:H4'	35:1:3219:G:O5'	2.16	0.45
31:j:20:THR:O	31:j:20:THR:OG1	2.32	0.45
31:j:80:GLU:OE2	69:AQ:73:THR:HG22	2.17	0.45
40:n:172:HIS:CD2	40:n:173:MET:HG2	2.52	0.45
44:r:4:ARG:NH1	44:r:99:ILE:HG13	2.32	0.45
47:u:102:LYS:N	47:u:102:LYS:HD2	2.31	0.45
49:w:27:LEU:HD11	49:w:102:LEU:HB2	1.99	0.45
49:w:39:GLU:OE1	49:w:39:GLU:N	2.40	0.45
54:2:14:MET:HE3	54:2:14:MET:HB3	1.66	0.45
61:AI:33:VAL:O	61:AI:36:LEU:HD23	2.17	0.45
66:AN:88:LYS:HA	66:AN:92:ASP:OD2	2.17	0.45
35:AR:65:A:C4	35:AR:110:G:N7	2.85	0.45
35:AR:384:A:H2'	35:AR:385:A:O4'	2.17	0.45
35:AR:582:G:O6	80:AR:3523:OHX:N3	2.49	0.45
35:AR:1282:G:C5	35:AR:1283:C:C5	3.04	0.45
35:AR:1658:G:H2'	35:AR:1659:U:H6	1.81	0.45
35:AR:2597:U:H2'	35:AR:2598:G:H8	1.82	0.45
35:AR:2765:C:O3'	68:DQ:39:GLY:HA3	2.17	0.45
35:AR:3191:G:H2'	35:AR:3192:U:H6	1.82	0.45
42:CJ:201:THR:HG23	42:CJ:202:GLU:N	2.32	0.45
59:DH:57:LYS:HB3	59:DH:57:LYS:HE2	1.55	0.45
1:sR:62:A:OP1	80:sR:1954:OHX:N3	2.50	0.45
1:sR:118:U:OP1	80:sR:1990:OHX:N3	2.49	0.45
1:sR:231:U:H2'	1:sR:232:U:H5"	1.99	0.45
1:sR:553:G:OP2	1:sR:554:C:O2'	2.33	0.45
1:sR:1062:A:H3'	1:sR:1063:U:C6	2.52	0.45
1:sR:1422:A:H2'	1:sR:1423:U:H6	1.82	0.45
79:Rb:111:MET:HE3	79:Rb:111:MET:HB2	1.53	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:s1:175:GLU:HG3	3:s1:193:ILE:HD13	1.99	0.45
4:s2:206:THR:O	4:s2:210:THR:HG23	2.17	0.45
5:s3:65:ARG:HA	5:s3:65:ARG:HD3	1.61	0.45
7:s5:92:ARG:HH11	7:s5:92:ARG:HG2	1.82	0.45
9:s7:31:SER:CB	9:s7:35:LYS:HG3	2.47	0.45
11:s9:121:SER:OG	11:s9:122:VAL:N	2.50	0.45
17:c6:126:PRO:O	17:c6:128:LYS:NZ	2.49	0.45
17:c6:140:LYS:HA	17:c6:140:LYS:HD2	1.74	0.45
23:d2:11:LEU:HD21	23:d2:37:PHE:CE1	2.51	0.45
25:d4:28:LEU:HD12	25:d4:28:LEU:N	2.32	0.45
1:A:142:G:N2	1:A:173:A:H2	2.11	0.45
1:A:283:U:H5"	8:H:188:ARG:HD3	1.97	0.45
1:A:447:U:C4	1:A:448:C:C4	3.05	0.45
1:A:795:U:C5	1:A:796:A:C8	3.05	0.45
1:A:838:G:H2'	1:A:839:U:H6	1.82	0.45
1:A:1098:U:P	4:D:168:ARG:HH21	2.40	0.45
1:A:1219:A:H3'	1:A:1220:C:H6	1.81	0.45
1:A:1410:A:H2'	1:A:1411:A:O4'	2.17	0.45
2:B:31:VAL:O	2:B:34:GLU:HG3	2.16	0.45
2:B:63:ILE:HG22	22:W:36:VAL:HA	1.98	0.45
2:B:76:ILE:HD12	2:B:76:ILE:N	2.32	0.45
4:D:43:ARG:CZ	4:D:249:ALA:HB2	2.46	0.45
4:D:152:HIS:HB2	4:D:194:GLU:HB2	1.99	0.45
16:Q:86:VAL:HG22	16:Q:89:MET:HG2	1.97	0.45
19:T:45:LEU:HD12	20:U:35:ASP:HB2	1.99	0.45
21:V:57:ARG:HA	21:V:89:ARG:HE	1.81	0.45
26:AA:16:GLY:O	26:AA:17:ARG:C	2.60	0.45
32:AE:12:TYR:O	32:AE:72:ARG:HD2	2.17	0.45
30:DE:13:LYS:HE3	30:DE:99:ASP:OD2	2.17	0.45
35:1:756:U:H2'	35:1:757:C:C6	2.51	0.45
35:1:946:U:H2'	35:1:947:G:H8	1.82	0.45
35:1:1480:G:H4'	35:1:1481:A:OP1	2.16	0.45
35:1:1818:U:H2'	35:1:1819:U:O4'	2.17	0.45
35:1:3113:A:H4'	43:q:69:ARG:HB3	1.98	0.45
35:1:3229:G:O5'	47:u:137:LYS:NZ	2.50	0.45
35:1:3318:G:C4	35:1:3320:A:C8	3.04	0.45
36:3:84:A:H2'	36:3:85:G:C8	2.52	0.45
37:4:69:U:H2'	37:4:70:G:O4'	2.18	0.45
37:4:127:U:C2'	37:4:128:U:H5'	2.46	0.45
33:k:140:ASP:OD1	33:k:140:ASP:N	2.49	0.45
44:r:9:TYR:CG	44:r:97:LEU:HD13	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:x:30:ARG:HD3	50:x:30:ARG:C	2.42	0.45
55:5:42:LYS:HE3	55:5:45:GLY:O	2.16	0.45
35:AR:94:G:O5'	83:AR:4200:SPD:H92	2.17	0.45
35:AR:288:C:H2'	35:AR:289:A:H8	1.81	0.45
35:AR:289:A:H2'	35:AR:290:G:C8	2.48	0.45
35:AR:819:U:H2'	35:AR:820:A:H8	1.82	0.45
35:AR:884:A:N7	35:AR:2139:A:C4	2.85	0.45
35:AR:1441:G:O6	80:AR:3465:OHX:N1	2.50	0.45
35:AR:1488:G:C2	35:AR:1489:A:C8	3.05	0.45
35:AR:1591:G:O2'	35:AR:1799:A:N1	2.42	0.45
35:AR:1768:U:H2'	35:AR:1769:G:O4'	2.17	0.45
35:AR:2536:A:H4'	3:s1:226:GLY:HA3	1.99	0.45
35:AR:2895:G:H2'	35:AR:2896:A:H5"	1.99	0.45
35:AR:3305:A:H2'	35:AR:3306:U:O2	2.17	0.45
37:AT:84:C:H5"	37:AT:85:G:C4	2.52	0.45
39:CG:84:PRO:HA	39:CG:88:ILE:O	2.17	0.45
40:CH:42:LEU:HD12	40:CH:84:VAL:HG12	1.99	0.45
41:CI:132:PRO:HA	41:CI:229:PHE:CD1	2.51	0.45
42:CJ:73:PRO:HD3	42:CJ:233:TRP:CD1	2.52	0.45
42:CJ:108:ARG:C	42:CJ:111:LYS:HB3	2.42	0.45
44:CL:51:HIS:NE2	44:CL:168:SER:HB2	2.32	0.45
53:CU:26:ARG:O	54:CV:150:THR:HA	2.17	0.45
32:DF:31:ARG:HG3	32:DF:31:ARG:HH11	1.82	0.45
66:DO:122:ARG:HG2	66:DO:123:PRO:HD2	1.98	0.45
68:DQ:68:VAL:HG13	68:DQ:85:LEU:HB2	1.98	0.45
70:sM:66:ALA:HA	16:c5:127:ARG:HG2	1.99	0.45
79:h:200:ASN:ND2	79:h:215:GLY:O	2.50	0.45
1:sR:95:G:OP1	6:s4:6:LYS:HG2	2.17	0.45
1:sR:647:G:N2	1:sR:688:G:C4	2.85	0.45
1:sR:755:A:O2'	1:sR:756:A:H5"	2.17	0.45
1:sR:773:C:OP1	6:s4:21:ASP:HB2	2.17	0.45
1:sR:902:G:H2'	1:sR:903:U:C6	2.52	0.45
1:sR:990:C:H2'	1:sR:991:G:O4'	2.17	0.45
1:sR:1159:C:H5"	1:sR:1160:A:H5'	1.99	0.45
1:sR:1211:A:H4'	16:c5:100:LYS:CD	2.44	0.45
1:sR:1459:C:OP2	1:sR:1459:C:H6	2.00	0.45
1:sR:1553:G:N7	16:c5:43:ARG:NH2	2.62	0.45
79:Rb:191:ASP:HB2	5:s3:223:LYS:HE2	1.99	0.45
5:s3:59:LEU:HD12	5:s3:66:ILE:HG21	1.98	0.45
5:s3:72:LEU:HD12	5:s3:72:LEU:O	2.17	0.45
7:s5:146:THR:OG1	7:s5:147:THR:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:138:LYS:O	9:s7:139:ARG:HG3	2.17	0.45
11:s9:119:ALA:HA	11:s9:124:HIS:CE1	2.51	0.45
11:s9:182:GLU:N	11:s9:182:GLU:CD	2.75	0.45
13:c1:64:VAL:HG11	13:c1:131:ILE:HD11	1.99	0.45
19:c8:100:THR:OG1	19:c8:105:VAL:HA	2.16	0.45
73:d6:58:VAL:O	73:d6:59:TYR:HB2	2.17	0.45
1:A:205:U:C2	1:A:206:A:C8	3.05	0.44
1:A:476:U:H5"	1:A:477:A:O4'	2.17	0.44
1:A:855:A:O2'	1:A:856:A:H3'	2.18	0.44
1:A:885:G:H21	15:P:123:SER:CB	2.23	0.44
1:A:1528:U:H2'	1:A:1529:C:H6	1.81	0.44
1:A:1602:C:H2'	1:A:1603:U:O4'	2.17	0.44
5:E:34:TYR:HE1	5:E:36:GLY:C	2.25	0.44
5:E:76:ARG:HH21	5:E:77:PHE:HA	1.81	0.44
7:G:195:ALA:O	7:G:198:LEU:HD12	2.17	0.44
9:I:12:ALA:N	9:I:13:PRO:HD2	2.32	0.44
14:O:29:SER:O	14:O:32:SER:OG	2.35	0.44
15:P:64:ALA:O	15:P:105:LEU:HD21	2.17	0.44
22:W:69:LEU:HD13	22:W:69:LEU:O	2.17	0.44
24:Y:63:GLN:HB3	24:Y:64:PRO:HA	1.99	0.44
25:Z:37:LYS:HA	25:Z:40:LEU:HB2	1.98	0.44
27:DA:125:LYS:HB3	61:AI:71:LYS:HD2	1.98	0.44
26:DB:136:PHE:CE2	60:DI:89:ILE:HG12	2.52	0.44
28:DC:84:GLU:O	28:DC:87:ARG:HB2	2.17	0.44
32:AE:88:PRO:HG2	32:AE:89:LEU:HD22	1.97	0.44
35:1:324:A:H2'	35:1:325:A:C8	2.53	0.44
35:1:551:A:H2'	35:1:551:A:OP2	2.16	0.44
35:1:1084:A:H2'	35:1:1085:A:C8	2.52	0.44
35:1:1618:G:H4'	37:4:129:C:C1'	2.46	0.44
35:1:1639:C:OP2	60:AH:74:ARG:NH1	2.50	0.44
35:1:1856:C:C2	35:1:1857:C:C5	3.05	0.44
35:1:2350:C:O3'	50:x:68:GLY:HA3	2.17	0.44
35:1:2534:G:O6	80:1:3499:OHX:N6	2.50	0.44
35:1:3074:G:OP1	80:1:4154:OHX:N6	2.50	0.44
37:4:124:G:H3'	37:4:125:U:H5'	1.99	0.44
37:4:154:C:H2'	37:4:155:A:O4'	2.17	0.44
39:m:65:ILE:HG22	39:m:66:SER:N	2.31	0.44
42:p:215:VAL:O	42:p:219:ASP:HB2	2.16	0.44
43:q:19:SER:C	43:q:20:ILE:HG13	2.41	0.44
43:q:75:VAL:O	43:q:79:ILE:HG23	2.17	0.44
44:r:68:ALA:HB2	44:r:158:LYS:HB2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:s:138:VAL:HA	45:s:141:ARG:HE	1.82	0.44
48:v:5:LYS:HD2	48:v:5:LYS:HA	1.74	0.44
48:v:23:GLN:O	48:v:122:ASN:ND2	2.50	0.44
53:0:86:GLY:O	53:0:88:HIS:NE2	2.50	0.44
56:6:85:TRP:O	56:6:92:PHE:HA	2.16	0.44
58:8:80:ASN:ND2	58:8:130:TYR:O	2.49	0.44
70:i:82:THR:C	70:i:83:LYS:HD3	2.42	0.44
35:AR:879:U:O2	35:AR:2357:A:H1'	2.17	0.44
35:AR:1084:A:H2'	35:AR:1085:A:C8	2.52	0.44
35:AR:1330:A:OP2	59:DH:19:SER:HB3	2.17	0.44
35:AR:1357:G:H2'	35:AR:1358:C:H6	1.82	0.44
35:AR:1472:U:H5'	52:CT:4:LEU:HB2	1.98	0.44
35:AR:2215:A:C4	35:AR:2216:G:C8	3.04	0.44
35:AR:3011:A:N3	35:AR:3012:A:H1'	2.33	0.44
35:AR:3333:G:N2	35:AR:3369:G:O2'	2.50	0.44
42:CJ:98:ARG:HH21	42:CJ:191:ASN:ND2	2.15	0.44
42:CJ:206:GLU:HG2	42:CJ:207:ASP:N	2.32	0.44
43:CK:50:ASN:ND2	47:CO:4:ASP:OD1	2.50	0.44
51:CS:67:ILE:HG12	51:CS:81:VAL:HG21	1.99	0.44
53:CU:42:TRP:NE1	53:CU:53:LYS:HG3	2.32	0.44
56:CX:80:ARG:HD2	56:CX:95:PHE:CD1	2.52	0.44
60:DI:104:VAL:C	60:DI:106:LYS:H	2.24	0.44
71:p0:4:ILE:O	71:p0:8:LYS:HG3	2.17	0.44
70:sM:85:SER:O	70:sM:85:SER:OG	2.33	0.44
72:a:54:VAL:HG23	72:a:55:PRO:HD3	1.99	0.44
72:a:84:GLU:HA	72:a:89:ILE:HD11	1.99	0.44
73:b:82:ARG:HA	73:b:82:ARG:HD2	1.57	0.44
78:g:110:ALA:HB3	78:g:113:LYS:CG	2.47	0.44
1:sR:486:G:H4'	1:sR:486:G:OP1	2.15	0.44
1:sR:687:G:P	23:d2:118:ARG:HH21	2.39	0.44
79:Rb:68:VAL:HG12	79:Rb:84:SER:HB2	1.98	0.44
2:s0:29:VAL:HG22	2:s0:149:LEU:HB3	1.99	0.44
2:s0:32:HIS:C	2:s0:33:GLN:HE21	2.21	0.44
6:s4:74:GLY:HA3	6:s4:164:LEU:HD21	1.99	0.44
7:s5:102:ARG:HG3	7:s5:103:ASN:ND2	2.31	0.44
7:s5:219:ARG:HG3	7:s5:219:ARG:NH1	2.32	0.44
8:s6:162:VAL:O	8:s6:168:THR:HB	2.18	0.44
9:s7:46:ILE:O	9:s7:47:ARG:NH1	2.50	0.44
10:s8:178:ARG:HH11	10:s8:178:ARG:CG	2.27	0.44
17:c6:38:LEU:CD1	20:c9:10:ALA:HA	2.47	0.44
21:d0:27:THR:HB	21:d0:88:LYS:HG3	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:d0:87:HIS:CD2	21:d0:87:HIS:N	2.84	0.44
74:d7:56:CYS:SG	74:d7:59:CYS:HB3	2.57	0.44
77:e0:46:ASN:O	77:e0:48:THR:HG22	2.17	0.44
1:A:206:A:H1'	1:A:262:U:C2	2.53	0.44
1:A:479:C:H2'	1:A:480:G:O4'	2.17	0.44
1:A:548:G:H2'	1:A:549:G:O4'	2.18	0.44
1:A:1382:A:O2'	1:A:1383:G:H5"	2.17	0.44
2:B:20:ALA:HB1	2:B:169:SER:HB3	1.98	0.44
2:B:54:TRP:O	2:B:57:LEU:HB2	2.17	0.44
3:C:83:LYS:HB2	3:C:104:ASP:O	2.17	0.44
4:D:235:LEU:HD11	22:W:54:ALA:N	2.32	0.44
6:F:198:LYS:HE3	6:F:198:LYS:HB3	1.82	0.44
17:R:77:GLN:O	17:R:81:ILE:HG23	2.18	0.44
17:R:131:GLY:HA2	17:R:138:PHE:CD1	2.52	0.44
19:T:28:ILE:HD13	19:T:61:LEU:HG	1.98	0.44
19:T:110:ARG:HA	19:T:113:LEU:HB2	2.00	0.44
20:U:29:GLU:OE1	20:U:110:LYS:HD3	2.17	0.44
21:V:20:ILE:HG13	21:V:95:ALA:O	2.17	0.44
22:W:78:LEU:O	22:W:79:LEU:HD23	2.18	0.44
27:DA:53:ASP:CB	27:DA:110:HIS:HD2	2.30	0.44
31:CD:45:VAL:HG12	31:CD:84:THR:HA	1.99	0.44
31:CD:130:SER:O	31:CD:130:SER:OG	2.35	0.44
33:CE:252:ILE:HD13	35:AR:2393:G:H4'	1.98	0.44
35:1:692:A:C4	35:1:693:A:C8	3.05	0.44
35:1:1661:G:H2'	35:1:1662:G:H8	1.76	0.44
35:1:1806:A:OP2	80:1:4146:OHX:N2	2.50	0.44
35:1:2198:A:C2	35:1:2199:G:C8	3.05	0.44
35:1:2612:U:H2'	35:1:2613:U:O4'	2.17	0.44
35:1:2700:G:O2'	35:1:2705:A:N1	2.49	0.44
35:1:2765:C:H2'	35:1:2766:U:C6	2.52	0.44
35:1:2766:U:H2'	35:1:2767:U:H6	1.82	0.44
35:1:2793:G:H5"	68:AP:66:LYS:HG2	1.98	0.44
35:1:3333:G:N2	35:1:3369:G:O2'	2.50	0.44
35:1:3348:G:H2'	35:1:3349:C:C6	2.51	0.44
31:j:117:GLU:OE2	31:j:163:ARG:NH1	2.49	0.44
39:m:83:LEU:N	39:m:84:PRO:HD2	2.31	0.44
41:o:224:ILE:HD13	53:0:39:SER:HB2	1.97	0.44
42:p:251:LYS:HE3	42:p:251:LYS:HB3	1.75	0.44
43:q:86:TYR:CD2	43:q:151:VAL:HB	2.51	0.44
47:u:8:LYS:O	47:u:9:ALA:HB2	2.17	0.44
51:y:90:ASP:O	51:y:93:ILE:HG22	2.16	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
27:9:109:LEU:HD13	27:9:119:ILE:HD11	2.00	0.44
61:AI:9:LEU:HB3	61:AI:17:LEU:HD21	1.99	0.44
62:AJ:56:ARG:HH22	62:AJ:76:ARG:HD3	1.82	0.44
35:AR:268:A:O4'	35:AR:270:U:H1'	2.18	0.44
35:AR:370:U:H4'	35:AR:404:G:H5'	2.00	0.44
35:AR:585:A:OP1	59:DH:70:LYS:HE2	2.17	0.44
35:AR:1383:G:O6	80:AR:3438:OHX:N6	2.50	0.44
35:AR:1463:U:H2'	35:AR:1464:G:O4'	2.18	0.44
35:AR:1482:A:N7	35:AR:1866:C:H1'	2.31	0.44
35:AR:2230:C:H2'	35:AR:2231:C:O4'	2.18	0.44
36:AS:36:C:H4'	39:CG:155:THR:HG23	1.99	0.44
39:CG:178:ASN:HA	39:CG:183:TRP:CG	2.51	0.44
40:CH:31:ARG:NH2	40:CH:81:ALA:O	2.50	0.44
40:CH:52:VAL:HG13	40:CH:66:SER:O	2.17	0.44
43:CK:137:SER:CB	43:CK:143:GLU:HB3	2.48	0.44
44:CL:200:LEU:HD13	44:CL:216:TYR:HD2	1.82	0.44
45:CM:63:GLU:O	45:CM:63:GLU:HG3	2.17	0.44
48:CP:9:GLU:CD	62:DK:41:ARG:HG2	2.41	0.44
54:CV:100:LYS:HD2	54:CV:103:GLN:HB2	1.99	0.44
62:DK:57:LEU:O	62:DK:61:ILE:HG12	2.18	0.44
64:DM:36:LYS:H	64:DM:36:LYS:HG2	1.52	0.44
68:DQ:34:SER:O	68:DQ:34:SER:OG	2.35	0.44
79:h:108:SER:OG	79:h:128:ASP:N	2.50	0.44
79:h:258:THR:HG23	79:h:259:GLY:H	1.81	0.44
1:sR:82:U:H2'	1:sR:83:G:O4'	2.17	0.44
1:sR:476:U:H2'	77:e0:31:LYS:CG	2.47	0.44
1:sR:846:G:O2'	1:sR:847:A:H5'	2.17	0.44
1:sR:868:G:C2	1:sR:869:A:C8	3.06	0.44
79:Rb:9:LEU:HB3	79:Rb:313:TRP:CE3	2.52	0.44
79:Rb:42:LEU:HB3	79:Rb:61:PHE:CG	2.52	0.44
79:Rb:80:ALA:O	79:Rb:81:LEU:HD12	2.17	0.44
79:Rb:114:ASP:C	79:Rb:122:ILE:HG13	2.41	0.44
79:Rb:115:ILE:HG23	79:Rb:122:ILE:CD1	2.44	0.44
79:Rb:222:LEU:HD21	79:Rb:232:TYR:CD1	2.52	0.44
3:s1:63:GLY:HA2	3:s1:88:VAL:O	2.16	0.44
4:s2:53:ILE:HA	4:s2:72:LEU:CD2	2.48	0.44
4:s2:179:VAL:HG11	4:s2:197:TYR:CD1	2.51	0.44
7:s5:93:LEU:O	7:s5:96:SER:OG	2.35	0.44
13:c1:59:PRO:HA	13:c1:64:VAL:HG23	1.99	0.44
14:c3:30:SER:O	14:c3:31:GLU:C	2.59	0.44
15:c4:61:MET:HB2	15:c4:104:ALA:HB2	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:c4:85:ALA:N	15:c4:119:THR:HG22	2.30	0.44
15:c4:129:LYS:HG3	15:c4:130:GLY:N	2.32	0.44
17:c6:110:THR:HA	17:c6:113:ASP:CB	2.47	0.44
75:d8:5:THR:O	75:d8:5:THR:OG1	2.31	0.44
75:d8:56:LEU:HD11	75:d8:58:GLU:HB2	1.98	0.44
1:A:262:U:H2'	1:A:263:C:C6	2.52	0.44
1:A:286:C:H2'	1:A:287:G:H5'	1.98	0.44
1:A:647:G:H2'	1:A:648:G:H8	1.83	0.44
1:A:1651:A:N1	1:A:1749:A:H2	2.15	0.44
3:C:119:THR:HB	3:C:155:TYR:HE1	1.82	0.44
6:F:143:ASP:OD1	6:F:144:GLY:N	2.50	0.44
7:G:113:ILE:O	7:G:117:THR:HG23	2.18	0.44
9:I:173:TYR:CG	9:I:181:ILE:HD11	2.52	0.44
21:V:109:GLU:O	21:V:110:PRO:C	2.58	0.44
22:W:40:ASP:HB2	22:W:41:GLU:OE1	2.17	0.44
26:AA:135:ARG:NH2	35:1:2556:C:O3'	2.51	0.44
27:DA:64:LYS:HG3	27:DA:65:GLY:N	2.32	0.44
29:AC:41:ARG:HD3	35:1:775:A:H5"	1.99	0.44
28:DC:126:LYS:HB3	28:DC:148:ILE:HD13	1.98	0.44
35:1:83:U:H2'	35:1:84:U:O4'	2.17	0.44
35:1:178:U:H2'	35:1:179:C:C6	2.52	0.44
35:1:191:U:H2'	35:1:192:C:C6	2.52	0.44
35:1:210:U:C2	35:1:230:U:H4'	2.53	0.44
35:1:313:A:H2'	35:1:314:U:C6	2.52	0.44
35:1:844:G:O6	80:1:3445:OHX:N5	2.51	0.44
35:1:1043:C:OP2	80:1:3493:OHX:N2	2.50	0.44
35:1:1352:A:H1'	35:1:1353:U:C5	2.52	0.44
35:1:1819:U:O4	80:1:4155:OHX:N3	2.50	0.44
35:1:2533:G:C2	35:1:2547:A:C2	3.06	0.44
35:1:2681:U:O2'	45:s:20:ASN:ND2	2.49	0.44
35:1:2700:G:OP1	54:2:17:ARG:HB2	2.18	0.44
35:1:3344:A:H2	35:1:3361:G:H21	1.65	0.44
35:1:3364:C:H2'	35:1:3365:U:C6	2.52	0.44
37:4:45:C:H2'	37:4:46:G:O4'	2.18	0.44
40:n:158:TYR:OH	47:u:114:ASP:OD2	2.21	0.44
42:p:74:THR:O	42:p:77:GLN:HG2	2.17	0.44
42:p:182:GLY:O	42:p:186:LEU:HD13	2.16	0.44
44:r:130:ASP:OD1	44:r:130:ASP:N	2.50	0.44
46:t:8:PRO:HA	51:y:164:ARG:O	2.17	0.44
46:t:119:TYR:O	46:t:123:ILE:HG23	2.17	0.44
46:t:127:PRO:HB2	46:t:131:LYS:NZ	2.32	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:w:102:LEU:HG	49:w:103:LYS:N	2.32	0.44
52:z:139:VAL:HA	52:z:142:ILE:HD12	1.98	0.44
52:z:155:LEU:HA	52:z:158:GLU:CG	2.36	0.44
58:8:25:LYS:HG3	58:8:27:ARG:NH1	2.32	0.44
27:9:56:VAL:HG21	27:9:104:LEU:HB3	1.99	0.44
35:AR:167:U:H2'	35:AR:168:U:H6	1.83	0.44
35:AR:855:U:H5"	52:CT:95:TRP:CG	2.53	0.44
35:AR:1252:A:H2	35:AR:1263:A:C2	2.35	0.44
35:AR:1556:C:H5"	35:AR:2169:G:H22	1.82	0.44
35:AR:1643:A:H2'	35:AR:1644:C:C2	2.52	0.44
35:AR:2103:U:H2'	35:AR:2104:A:H8	1.78	0.44
35:AR:2103:U:H5"	52:CT:85:ARG:HE	1.82	0.44
35:AR:2780:A:H2'	35:AR:2781:U:H6	1.81	0.44
35:AR:2792:A:C5'	68:DQ:84:THR:HG21	2.46	0.44
35:AR:2823:G:C2	35:AR:2824:G:C8	3.05	0.44
35:AR:3312:U:O4	80:AR:3428:OHX:N5	2.50	0.44
35:AR:3322:A:H2'	35:AR:3323:A:H8	1.79	0.44
36:AS:103:A:H2'	36:AS:104:A:O4'	2.18	0.44
36:AS:106:U:H2'	36:AS:107:C:O4'	2.16	0.44
37:AT:145:U:H2'	37:AT:146:U:C6	2.52	0.44
39:CG:160:PHE:HA	39:CG:163:LEU:HB3	2.00	0.44
42:CJ:68:ARG:HD3	42:CJ:237:ILE:O	2.16	0.44
45:CM:10:ARG:HB3	45:CM:152:HIS:CE1	2.52	0.44
45:CM:85:LYS:HD2	16:c5:12:PHE:HE2	1.82	0.44
46:CN:176:GLU:HG2	62:DK:11:LEU:HD11	1.98	0.44
49:CQ:149:TYR:O	49:CQ:153:VAL:HG13	2.17	0.44
53:CU:93:GLU:OE1	53:CU:135:VAL:HG23	2.18	0.44
58:CZ:82:LEU:HB2	58:CZ:124:VAL:HG23	1.98	0.44
62:DK:61:ILE:HD13	62:DK:69:ALA:CB	2.48	0.44
79:h:36:ALA:H	79:h:42:LEU:HA	1.82	0.44
79:h:171:SER:HB3	79:h:179:LYS:HB2	1.98	0.44
79:h:203:THR:HG23	79:h:245:PHE:CD2	2.53	0.44
1:sR:1223:A:H2'	1:sR:1224:A:C8	2.48	0.44
1:sR:1508:U:H2'	1:sR:1509:C:C6	2.52	0.44
4:s2:71:THR:O	4:s2:74:PRO:HD3	2.16	0.44
5:s3:19:ALA:HB2	76:d9:49:ASP:HB3	1.99	0.44
5:s3:98:ALA:N	5:s3:188:ILE:HD11	2.32	0.44
11:s9:90:LYS:HD3	11:s9:90:LYS:N	2.32	0.44
12:c0:23:ALA:O	12:c0:24:LYS:C	2.60	0.44
17:c6:47:LYS:NZ	17:c6:50:GLU:OE2	2.46	0.44
17:c6:54:LEU:HD23	17:c6:54:LEU:HA	1.73	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:c8:32:LEU:O	19:c8:38:VAL:HG21	2.17	0.44
24:d3:8:GLY:O	24:d3:11:SER:OG	2.32	0.44
75:d8:10:ALA:HB1	75:d8:30:VAL:CG2	2.47	0.44
1:A:127:G:O6	8:H:199:GLN:NE2	2.50	0.44
1:A:529:A:H2'	1:A:530:C:H6	1.83	0.44
1:A:565:C:C2	80:A:2121:OHX:N5	2.85	0.44
1:A:607:G:OP2	1:A:613:G:N1	2.46	0.44
1:A:771:A:C4	1:A:772:G:C8	3.05	0.44
1:A:780:A:N7	25:Z:8:ARG:NH2	2.65	0.44
1:A:861:U:O2'	23:X:56:HIS:O	2.21	0.44
1:A:1191:U:OP1	70:i:89:ARG:NH1	2.50	0.44
1:A:1220:C:H2'	1:A:1221:A:H8	1.81	0.44
1:A:1407:U:H2'	1:A:1408:G:C8	2.52	0.44
1:A:1489:U:H6	1:A:1492:A:H2	1.65	0.44
1:A:1490:C:H4'	1:A:1491:U:OP1	2.16	0.44
2:B:30:GLN:HE22	2:B:32:HIS:HA	1.83	0.44
4:D:44:LEU:HD21	4:D:247:ALA:HB2	1.98	0.44
4:D:68:ILE:C	4:D:72:LEU:HD12	2.41	0.44
11:K:174:ARG:O	11:K:178:ALA:HB3	2.18	0.44
12:L:42:VAL:HG12	12:L:46:LEU:CD2	2.47	0.44
14:O:28:LEU:HB3	14:O:32:SER:CB	2.46	0.44
16:Q:64:LYS:HA	16:Q:73:PRO:HB3	1.99	0.44
16:Q:97:TYR:HB2	16:Q:102:PHE:CD2	2.53	0.44
20:U:25:GLN:NE2	20:U:27:LYS:O	2.49	0.44
24:Y:63:GLN:HA	24:Y:65:ASN:N	2.32	0.44
26:AA:67:LYS:HA	26:AA:119:GLU:OE1	2.17	0.44
26:DB:60:LYS:C	26:DB:62:VAL:H	2.24	0.44
31:CD:128:ARG:HA	31:CD:169:ILE:CD1	2.47	0.44
35:1:158:G:H2'	35:1:159:A:C8	2.53	0.44
35:1:831:G:O2'	35:1:1864:A:N3	2.48	0.44
35:1:1064:A:H4'	35:1:1065:A:C5'	2.48	0.44
35:1:1378:U:H2'	35:1:1379:G:H8	1.82	0.44
35:1:2258:U:C2	35:1:2259:A:C8	3.05	0.44
35:1:2260:U:H2'	35:1:2261:G:C8	2.52	0.44
35:1:2289:U:H2'	35:1:2290:C:C6	2.52	0.44
35:1:2662:G:H2'	35:1:2663:G:C8	2.52	0.44
35:1:2775:U:H2'	35:1:2776:C:H6	1.82	0.44
35:1:2985:C:H2'	35:1:2986:U:H6	1.83	0.44
33:k:230:THR:HA	33:k:235:THR:CG2	2.47	0.44
38:l:206:LEU:O	38:l:248:VAL:HA	2.18	0.44
41:o:108:LEU:HD21	41:o:115:THR:HG23	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:p:34:PHE:CE2	42:p:42:PRO:HG3	2.52	0.44
43:q:99:ILE:HG22	43:q:117:PHE:HA	1.99	0.44
44:r:51:HIS:HB3	44:r:134:ILE:HG23	1.98	0.44
46:t:74:GLY:HA3	46:t:98:ASP:N	2.32	0.44
46:t:76:THR:HG23	46:t:101:ARG:CZ	2.47	0.44
68:AP:53:GLN:OE1	68:AP:55:LYS:O	2.35	0.44
35:AR:7:C:H2'	35:AR:8:C:H6	1.82	0.44
35:AR:130:A:H2'	35:AR:131:C:C6	2.53	0.44
35:AR:892:U:H2'	35:AR:893:C:O4'	2.18	0.44
35:AR:1108:U:H2'	35:AR:1109:U:C6	2.53	0.44
35:AR:2129:U:H2'	35:AR:2130:G:C8	2.52	0.44
35:AR:2661:G:H2'	35:AR:2662:G:H8	1.82	0.44
35:AR:2970:C:H4'	35:AR:2971:A:N1	2.32	0.44
36:AS:27:A:OP2	39:CG:57:ASN:HB2	2.17	0.44
41:CI:110:ARG:NH1	51:CS:3:ILE:HD11	2.33	0.44
41:CI:159:GLN:O	41:CI:161:VAL:HG23	2.18	0.44
42:CJ:50:VAL:HB	42:CJ:52:TRP:CE2	2.53	0.44
44:CL:48:LEU:HB2	44:CL:142:ASP:OD1	2.16	0.44
60:DI:104:VAL:CG2	60:DI:107:GLU:HB2	2.46	0.44
62:DK:56:ARG:O	62:DK:59:ASP:HB2	2.17	0.44
1:sR:140:A:OP2	1:sR:140:A:H4'	2.17	0.44
1:sR:347:G:OP1	13:c1:77:SER:OG	2.29	0.44
1:sR:575:C:H41	24:d3:65:ASN:CG	2.25	0.44
1:sR:768:C:H2'	1:sR:769:A:O4'	2.18	0.44
1:sR:835:U:H2'	1:sR:836:U:C6	2.53	0.44
1:sR:1379:C:H5'	17:c6:10:PHE:CE2	2.52	0.44
1:sR:1402:G:OP1	18:c7:4:VAL:HA	2.17	0.44
1:sR:1742:U:H2'	1:sR:1743:U:H6	1.82	0.44
79:Rb:20:VAL:O	79:Rb:20:VAL:HG23	2.18	0.44
79:Rb:228:LYS:O	79:Rb:228:LYS:HD2	2.17	0.44
2:s0:41:ARG:NH2	2:s0:44:GLY:O	2.50	0.44
4:s2:59:HIS:CE1	4:s2:238:SER:HA	2.53	0.44
6:s4:205:PHE:CE2	6:s4:221:ARG:CZ	3.00	0.44
7:s5:197:GLU:OE2	7:s5:208:SER:HB2	2.18	0.44
14:c3:46:THR:H	14:c3:49:GLN:HE21	1.65	0.44
17:c6:141:SER:O	17:c6:142:TYR:HB2	2.17	0.44
21:d0:24:ILE:HD12	21:d0:91:ILE:HD11	2.00	0.44
24:d3:144:ARG:N	24:d3:144:ARG:HD2	2.31	0.44
25:d4:57:VAL:HG12	25:d4:73:GLY:CA	2.43	0.44
76:d9:28:THR:O	76:d9:29:GLY:C	2.61	0.44
1:A:67:A:H3'	1:A:69:G:H8	1.81	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:208:U:H2'	1:A:209:U:C6	2.52	0.44
1:A:327:U:H2'	1:A:328:A:H8	1.82	0.44
1:A:398:G:OP2	10:J:47:ARG:NH2	2.46	0.44
1:A:461:G:H4'	6:F:26:CYS:SG	2.58	0.44
1:A:638:U:C1'	9:I:114:ARG:HH12	2.29	0.44
1:A:1120:U:C2	1:A:1121:C:C5	3.05	0.44
1:A:1486:G:H1'	1:A:1592:A:O2'	2.17	0.44
1:A:1785:U:P	15:P:133:ARG:HH22	2.39	0.44
2:B:175:TYR:CD2	2:B:199:PRO:HA	2.53	0.44
6:F:43:PRO:HA	6:F:82:TYR:O	2.17	0.44
6:F:128:LYS:HB2	6:F:140:VAL:CG2	2.45	0.44
9:I:17:GLU:HG3	9:I:46:ILE:CG1	2.48	0.44
9:I:50:ASP:OD1	9:I:50:ASP:N	2.51	0.44
9:I:100:PRO:C	9:I:112:ARG:HH12	2.23	0.44
9:I:103:SER:N	9:I:106:SER:OG	2.50	0.44
9:I:135:ILE:HG22	9:I:154:LEU:HD12	1.99	0.44
11:K:49:LEU:HG	11:K:53:ARG:HD3	1.99	0.44
12:L:32:HIS:ND1	12:L:33:GLU:N	2.66	0.44
14:O:36:GLN:H	14:O:36:GLN:CD	2.17	0.44
14:O:39:LYS:O	14:O:42:ARG:HB3	2.17	0.44
15:P:111:ARG:HA	73:b:57:SER:HA	1.99	0.44
27:DA:54:ASP:OD1	27:DA:115:ARG:NH1	2.49	0.44
29:AC:49:GLY:HA3	35:1:1073:U:O2'	2.18	0.44
30:AD:13:LYS:HG3	30:AD:100:ILE:HG23	1.97	0.44
31:CD:98:VAL:HG23	31:CD:167:GLY:HA3	2.00	0.44
35:1:384:A:H2'	35:1:385:A:O4'	2.17	0.44
35:1:578:A:H5"	35:1:579:G:O5'	2.18	0.44
35:1:597:G:H2'	35:1:598:A:C8	2.52	0.44
35:1:884:A:N7	35:1:2139:A:C4	2.86	0.44
35:1:1474:A:OP2	52:z:53:LYS:NZ	2.43	0.44
35:1:3065:G:H2'	35:1:3066:U:H6	1.79	0.44
35:1:3096:C:H2'	35:1:3097:C:H6	1.82	0.44
39:m:86:TYR:CD1	39:m:247:ILE:HG12	2.52	0.44
42:p:145:ASN:HB3	42:p:147:LYS:HG3	1.98	0.44
47:u:128:ARG:HA	47:u:131:VAL:HG22	1.99	0.44
50:x:107:LEU:HB3	50:x:152:GLU:OE1	2.18	0.44
54:2:45:ASN:OD1	54:2:47:SER:OG	2.35	0.44
60:AH:10:ARG:CD	65:AM:4:GLN:HE21	2.31	0.44
62:AJ:39:PHE:CD1	62:AJ:39:PHE:C	2.94	0.44
35:AR:531:G:H2'	35:AR:532:A:H8	1.78	0.44
35:AR:534:U:O2	53:CU:146:LYS:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1088:U:C2	35:AR:1089:G:C8	3.05	0.44
35:AR:1340:G:H2'	35:AR:1341:U:C6	2.52	0.44
35:AR:1805:C:H4'	60:DI:76:TYR:O	2.18	0.44
35:AR:3107:U:P	66:DO:112:LYS:NZ	2.91	0.44
35:AR:3344:A:H2	35:AR:3361:G:H21	1.64	0.44
36:AS:45:A:H2'	36:AS:46:A:C8	2.53	0.44
37:AT:142:C:H2'	37:AT:143:U:C6	2.52	0.44
38:CF:140:HIS:NE2	38:CF:246:ARG:HD2	2.32	0.44
39:CG:52:VAL:HA	39:CG:147:ASP:HB3	1.98	0.44
42:CJ:179:ILE:HB	42:CJ:222:PHE:HE2	1.82	0.44
43:CK:90:MET:HE3	43:CK:181:VAL:HG23	1.98	0.44
44:CL:50:VAL:HG23	44:CL:166:ILE:O	2.18	0.44
45:CM:12:LEU:H	45:CM:12:LEU:HD12	1.83	0.44
50:CR:129:THR:HG22	50:CR:137:ASN:O	2.17	0.44
52:CT:67:ALA:HB1	52:CT:71:ARG:HH21	1.81	0.44
52:CT:99:LEU:HD23	52:CT:99:LEU:O	2.18	0.44
53:CU:23:LYS:HA	54:CV:146:ASN:OD1	2.17	0.44
55:CW:17:VAL:HG12	55:CW:105:LEU:HD11	1.98	0.44
32:DF:85:ALA:O	32:DF:86:LYS:C	2.59	0.44
67:DP:15:ARG:HG3	67:DP:18:ARG:NH1	2.33	0.44
71:p0:40:GLU:HA	71:p0:40:GLU:OE1	2.18	0.44
72:a:90:LYS:HB3	72:a:102:THR:HG22	1.99	0.44
1:sR:304:U:H2'	1:sR:305:C:C6	2.53	0.44
1:sR:400:A:H2'	10:s8:24:LYS:O	2.18	0.44
1:sR:614:C:C2	1:sR:615:A:C8	3.05	0.44
1:sR:1330:G:H21	18:c7:8:THR:HG21	1.83	0.44
79:Rb:79:TYR:HE1	79:Rb:100:TYR:CE2	2.35	0.44
79:Rb:169:ILE:HD12	79:Rb:169:ILE:O	2.18	0.44
79:Rb:177:MET:HE3	79:Rb:177:MET:HB2	1.67	0.44
2:s0:172:LEU:O	2:s0:176:LEU:HG	2.18	0.44
3:s1:103:MET:HB3	3:s1:103:MET:HE2	1.85	0.44
7:s5:123:VAL:HG23	7:s5:124:LEU:HD23	1.99	0.44
11:s9:87:SER:HB3	11:s9:90:LYS:CG	2.47	0.44
16:c5:33:PHE:CD2	16:c5:87:PRO:HD3	2.52	0.44
20:c9:14:PHE:C	20:c9:14:PHE:CD1	2.95	0.44
24:d3:42:PRO:HG2	24:d3:122:PHE:CZ	2.50	0.44
72:d5:42:LEU:HD23	72:d5:44:GLN:N	2.32	0.44
78:e1:135:HIS:O	78:e1:135:HIS:CD2	2.71	0.44
1:A:23:G:O2'	1:A:368:U:H5"	2.18	0.44
1:A:25:C:H1'	1:A:26:A:OP2	2.18	0.44
1:A:60:U:H5'	1:A:455:C:N4	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:455:C:H3'	1:A:456:A:C8	2.53	0.44
1:A:477:A:H5'	77:f:34:ALA:CB	2.48	0.44
1:A:610:G:OP2	13:M:96:LYS:NZ	2.43	0.44
1:A:705:U:H2'	1:A:706:A:C8	2.53	0.44
1:A:743:U:OP1	9:I:108:GLN:NE2	2.51	0.44
1:A:875:G:P	3:C:158:SER:OG	2.75	0.44
1:A:1280:C:O2'	21:V:70:THR:HB	2.18	0.44
1:A:1349:G:H2'	1:A:1350:U:H6	1.83	0.44
1:A:1392:U:H2'	1:A:1393:C:C6	2.52	0.44
1:A:1515:A:H1'	1:A:1518:C:N4	2.32	0.44
3:C:205:PHE:CG	3:C:206:PRO:HD2	2.53	0.44
6:F:105:VAL:HG21	6:F:245:LYS:HA	1.99	0.44
6:F:206:ASP:O	6:F:222:LEU:HB2	2.18	0.44
7:G:133:VAL:O	7:G:137:ILE:HG23	2.18	0.44
11:K:39:LYS:HE2	11:K:39:LYS:HB3	1.73	0.44
14:O:54:LEU:HD23	14:O:54:LEU:HA	1.78	0.44
17:R:32:ASN:HA	17:R:68:ARG:CD	2.48	0.44
19:T:33:THR:O	19:T:38:VAL:HG21	2.18	0.44
19:T:35:ILE:O	19:T:38:VAL:HG22	2.17	0.44
21:V:66:SER:OG	21:V:81:THR:HG22	2.18	0.44
24:Y:33:LEU:HD23	24:Y:33:LEU:HA	1.74	0.44
25:Z:104:SER:HB3	25:Z:107:GLN:NE2	2.33	0.44
31:CD:7:ASN:HB2	35:AR:2183:A:H5"	2.00	0.44
33:CE:165:GLN:HB3	33:CE:168:LYS:HG3	1.99	0.44
33:CE:292:ALA:HB2	33:CE:302:LYS:HA	1.98	0.44
34:AF:33:ARG:NE	35:1:944:C:H4'	2.32	0.44
35:1:8:C:H2'	35:1:9:U:C6	2.52	0.44
35:1:92:G:C8	83:1:4106:SPD:H71	2.52	0.44
35:1:738:A:H2'	35:1:739:G:H8	1.82	0.44
35:1:812:G:N7	80:1:3490:OHX:N4	2.65	0.44
35:1:860:G:O2'	35:1:895:A:H4'	2.17	0.44
35:1:1018:G:H2'	35:1:1019:G:H8	1.83	0.44
35:1:1103:A:OP2	35:1:1103:A:H4'	2.17	0.44
35:1:1317:A:OP1	80:1:3556:OHX:N5	2.51	0.44
35:1:1429:G:C6	38:l:99:MET:HE2	2.52	0.44
35:1:1701:C:H2'	35:1:1702:U:O4'	2.18	0.44
35:1:2856:G:H2'	35:1:2857:C:H6	1.82	0.44
35:1:3166:C:H2'	35:1:3167:A:O4'	2.17	0.44
33:k:361:THR:CG2	33:k:371:GLN:HB3	2.44	0.44
38:l:26:PHE:CD1	38:l:130:ALA:HB2	2.52	0.44
39:m:132:THR:HG21	39:m:170:GLY:CA	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:m:152:ARG:HB3	39:m:152:ARG:HH11	1.82	0.44
39:m:235:SER:HB2	39:m:239:ILE:HD11	1.98	0.44
43:q:4:ILE:HB	53:0:142:GLN:OE1	2.17	0.44
43:q:41:ILE:CD1	43:q:71:VAL:HG22	2.43	0.44
43:q:161:LEU:O	43:q:164:ILE:HG22	2.18	0.44
45:s:14:ILE:O	45:s:14:ILE:HG13	2.16	0.44
45:s:116:TYR:CZ	45:s:118:PRO:HB3	2.53	0.44
46:t:30:GLY:O	46:t:33:VAL:HG22	2.17	0.44
47:u:15:VAL:HG21	53:0:150:PHE:CZ	2.53	0.44
49:w:54:TYR:O	49:w:57:PHE:HB3	2.18	0.44
52:z:179:GLU:C	52:z:180:LYS:HD3	2.43	0.44
27:9:17:LYS:O	27:9:21:THR:HG23	2.17	0.44
62:AJ:25:LYS:HB2	62:AJ:28:TYR:CD1	2.52	0.44
69:AQ:49:ARG:HG3	69:AQ:55:TRP:CZ2	2.53	0.44
35:AR:19:U:H2'	35:AR:20:A:C8	2.52	0.44
35:AR:582:G:C2	35:AR:583:G:C8	3.06	0.44
35:AR:861:C:C4'	69:DR:17:ARG:NH2	2.80	0.44
35:AR:1216:C:C2	35:AR:1217:A:C8	3.05	0.44
35:AR:1290:A:H2'	35:AR:1291:A:C8	2.52	0.44
35:AR:1562:C:O2'	35:AR:1563:C:O5'	2.23	0.44
35:AR:1700:G:H2'	35:AR:1701:C:C6	2.53	0.44
35:AR:1752:A:OP2	80:AR:3583:OHX:N1	2.51	0.44
35:AR:2152:A:H2'	35:AR:2153:U:C6	2.50	0.44
35:AR:2403:G:N7	35:AR:2870:C:H4'	2.32	0.44
35:AR:2534:G:H3'	35:AR:2536:A:H62	1.82	0.44
35:AR:2751:G:O6	80:AR:3649:OHX:N3	2.51	0.44
39:CG:79:TYR:O	39:CG:82:GLU:HB2	2.18	0.44
46:CN:32:LYS:HA	46:CN:35:ARG:NH1	2.32	0.44
49:CQ:62:THR:H	49:CQ:69:GLY:HA3	1.82	0.44
52:CT:17:VAL:CG1	52:CT:21:LYS:HB2	2.47	0.44
52:CT:89:LEU:HD12	52:CT:90:PRO:HD2	2.00	0.44
57:CY:27:LYS:HB3	57:CY:29:PHE:CE1	2.48	0.44
61:DJ:77:PRO:HG2	61:DJ:80:LEU:HD12	1.98	0.44
1:sR:57:G:P	25:d4:112:LYS:HZ1	2.38	0.44
1:sR:228:G:H22	1:sR:237:C:N4	2.16	0.44
1:sR:883:C:H1'	1:sR:946:U:O2	2.17	0.44
1:sR:1367:G:H4'	20:c9:7:ARG:NH2	2.32	0.44
1:sR:1410:A:H3'	1:sR:1411:A:C8	2.52	0.44
1:sR:1429:G:H2'	1:sR:1430:U:H6	1.83	0.44
1:sR:1472:C:H5'	1:sR:1474:G:O4'	2.18	0.44
1:sR:1526:A:N1	1:sR:1608:U:O2'	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Rb:181:TRP:HZ3	79:Rb:188:ILE:HG12	1.83	0.44
2:s0:85:ALA:HB1	2:s0:174:TRP:CB	2.48	0.44
6:s4:160:VAL:HG12	6:s4:172:PHE:HB3	1.98	0.44
8:s6:2:LYS:HB2	8:s6:2:LYS:HE2	1.80	0.44
8:s6:54:GLY:O	8:s6:109:LEU:HD12	2.17	0.44
8:s6:215:ARG:HA	8:s6:215:ARG:HD2	1.75	0.44
9:s7:50:ASP:CG	9:s7:56:LYS:HE3	2.42	0.44
11:s9:179:ARG:HE	11:s9:179:ARG:C	2.26	0.44
16:c5:31:GLU:O	16:c5:34:VAL:HG22	2.17	0.44
16:c5:90:ILE:HG21	16:c5:109:PRO:HG3	1.99	0.44
17:c6:60:PHE:HA	17:c6:63:ILE:HG12	1.99	0.44
19:c8:89:GLN:HA	19:c8:97:ASP:HA	1.98	0.44
22:d1:36:VAL:HB	22:d1:51:VAL:HB	1.99	0.44
22:d1:57:GLY:O	22:d1:61:SER:OG	2.25	0.44
72:d5:41:ILE:HD12	72:d5:42:LEU:H	1.83	0.44
1:A:385:A:H5"	10:J:22:ARG:HB2	2.00	0.44
1:A:498:G:C8	1:A:499:U:N3	2.86	0.44
1:A:521:A:H2'	1:A:522:U:O4'	2.17	0.44
1:A:730:G:N2	1:A:731:C:H5'	2.32	0.44
1:A:789:A:O2'	6:F:106:LYS:NZ	2.51	0.44
1:A:946:U:H2'	1:A:947:U:C6	2.53	0.44
1:A:1391:A:C4	1:A:1392:U:C5	3.06	0.44
1:A:1516:A:C8	21:V:59:PRO:HD2	2.53	0.44
1:A:1553:G:O6	16:Q:40:ARG:NH2	2.51	0.44
2:B:59:LEU:HA	2:B:59:LEU:HD12	1.57	0.44
3:C:73:LEU:HD13	3:C:74:GLN:HG2	1.99	0.44
4:D:178:ILE:CG2	4:D:188:LEU:HD12	2.47	0.44
7:G:44:ASN:HD21	7:G:70:VAL:CG2	2.31	0.44
7:G:92:ARG:HG3	7:G:92:ARG:HH11	1.82	0.44
12:L:31:LYS:HA	12:L:37:THR:O	2.17	0.44
13:M:76:VAL:HG21	13:M:87:ARG:HB2	1.99	0.44
13:M:109:VAL:CG1	13:M:137:PHE:HB2	2.46	0.44
14:O:94:LYS:O	14:O:98:VAL:HG12	2.18	0.44
15:P:26:THR:O	15:P:27:PHE:HD1	2.00	0.44
16:Q:18:ARG:O	16:Q:20:VAL:HG12	2.16	0.44
21:V:101:LYS:O	21:V:101:LYS:HG3	2.18	0.44
21:V:102:ARG:HA	21:V:105:GLN:HG2	1.99	0.44
23:X:32:LYS:O	23:X:35:ILE:HG12	2.18	0.44
23:X:79:PHE:O	23:X:125:ILE:HG22	2.17	0.44
24:Y:52:ILE:O	24:Y:74:VAL:HA	2.17	0.44
28:AB:24:LYS:O	80:1:4142:OHX:N6	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:CD:83:HIS:CE1	31:CD:86:GLN:HB2	2.53	0.44
33:CE:104:THR:OG1	35:AR:3147:G:O2'	2.33	0.44
35:1:7:C:H2'	35:1:8:C:H6	1.82	0.44
35:1:1503:A:H2'	35:1:1504:A:C8	2.50	0.44
35:1:1654:A:O2'	60:AH:59:PRO:HD3	2.17	0.44
35:1:1687:U:O4	55:5:45:GLY:N	2.35	0.44
35:1:1779:C:H1'	52:z:93:VAL:HG21	1.98	0.44
35:1:2144:A:H1'	35:1:2281:A:N6	2.33	0.44
35:1:2656:A:O2'	80:1:3410:OHX:N5	2.51	0.44
35:1:2897:A:H2'	35:1:2899:C:C5'	2.47	0.44
35:1:2989:U:H2'	35:1:2990:G:O4'	2.18	0.44
35:1:3157:U:H4'	35:1:3158:G:O5'	2.17	0.44
35:1:3203:U:H2'	35:1:3204:C:C6	2.53	0.44
36:3:42:A:C5	36:3:43:U:C5	3.06	0.44
33:k:83:PRO:O	33:k:165:GLN:HG3	2.17	0.44
33:k:98:GLY:HA2	49:w:149:TYR:HE2	1.82	0.44
38:l:135:VAL:HG12	38:l:140:HIS:HB3	2.00	0.44
39:m:40:HIS:NE2	54:2:69:LYS:HB2	2.33	0.44
39:m:52:VAL:CG1	39:m:63:GLN:HB2	2.46	0.44
39:m:65:ILE:CG2	39:m:72:ASP:HB3	2.47	0.44
39:m:153:THR:CG2	39:m:179:ARG:HD2	2.47	0.44
45:s:39:GLN:CD	45:s:114:ILE:HD11	2.41	0.44
46:t:132:ALA:C	46:t:134:GLU:N	2.75	0.44
46:t:138:VAL:HB	61:AI:118:ILE:HB	1.99	0.44
49:w:33:ILE:O	49:w:102:LEU:HA	2.17	0.44
51:y:55:SER:O	51:y:59:ARG:HG2	2.18	0.44
51:y:126:GLN:O	51:y:130:ARG:HG3	2.17	0.44
54:2:57:TYR:HA	54:2:60:LYS:HG3	1.99	0.44
27:9:36:SER:HB3	27:9:106:ILE:O	2.18	0.44
68:AP:12:CYS:SG	68:AP:79:THR:OG1	2.75	0.44
70:i:57:ASN:O	70:i:61:ILE:HG12	2.17	0.44
35:AR:121:A:C6	42:CJ:129:PRO:HG3	2.53	0.44
35:AR:172:G:H5'	35:AR:173:G:OP2	2.17	0.44
35:AR:1222:G:OP1	71:p0:58:MET:HB2	2.18	0.44
35:AR:1259:A:H5'	71:p0:53:MET:O	2.18	0.44
35:AR:1411:C:H2'	35:AR:1412:G:H8	1.81	0.44
35:AR:2744:U:H2'	35:AR:2745:G:C8	2.53	0.44
35:AR:2947:G:OP2	35:AR:2947:G:H4'	2.16	0.44
36:AS:77:G:OP2	80:AS:202:OHX:N6	2.51	0.44
37:AT:103:G:OP2	37:AT:105:A:O2'	2.36	0.44
38:CF:16:THR:HG22	38:CF:17:ALA:N	2.33	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CF:307:GLN:NE2	38:CF:307:GLN:H	2.16	0.44
46:CN:64:LYS:O	46:CN:64:LYS:HG2	2.15	0.44
46:CN:91:ARG:NH2	46:CN:97:VAL:HB	2.32	0.44
52:CT:155:LEU:HA	52:CT:155:LEU:HD23	1.66	0.44
58:CZ:34:LEU:HD23	58:CZ:35:PRO:O	2.18	0.44
34:DG:101:SER:OG	34:DG:103:LYS:HG3	2.18	0.44
69:DR:49:ARG:HB2	69:DR:55:TRP:CH2	2.53	0.44
76:e:19:ARG:CZ	76:e:32:ARG:HH11	2.30	0.44
76:e:21:CYS:HB3	76:e:25:SER:N	2.32	0.44
76:e:46:LYS:O	76:e:50:ILE:HD13	2.17	0.44
79:h:179:LYS:HD3	79:h:181:TRP:CZ2	2.52	0.44
1:sR:94:U:H4'	6:s4:6:LYS:HA	2.00	0.44
1:sR:151:G:N2	1:sR:163:G:H1	2.15	0.44
1:sR:443:C:OP2	25:d4:105:ARG:HB3	2.18	0.44
1:sR:1081:A:N3	1:sR:1082:C:N4	2.65	0.44
1:sR:1142:A:H5"	73:d6:2:PRO:HB3	1.99	0.44
1:sR:1388:A:H5"	18:c7:48:ASN:ND2	2.33	0.44
1:sR:1432:U:H4'	1:sR:1433:G:C5'	2.48	0.44
1:sR:1603:U:H2'	1:sR:1604:U:C6	2.53	0.44
2:s0:83:GLN:O	2:s0:84:ARG:C	2.60	0.44
4:s2:98:PHE:HE2	4:s2:121:VAL:HG12	1.82	0.44
5:s3:4:LEU:HD23	5:s3:4:LEU:HA	1.78	0.44
6:s4:151:ASP:HB3	6:s4:154:ILE:HD12	2.00	0.44
6:s4:253:ASP:O	6:s4:257:ALA:N	2.51	0.44
8:s6:61:PHE:N	8:s6:61:PHE:CD1	2.86	0.44
11:s9:90:LYS:HB3	11:s9:95:TYR:CD2	2.53	0.44
13:c1:55:ASP:HB3	13:c1:58:CYS:HB2	1.99	0.44
16:c5:122:THR:HG22	16:c5:123:TYR:HD1	1.82	0.44
20:c9:10:ALA:HB3	20:c9:13:ASP:OD1	2.17	0.44
24:d3:126:LYS:HE3	24:d3:126:LYS:HB3	1.72	0.44
72:d5:72:GLY:C	72:d5:74:SER:H	2.25	0.44
75:d8:56:LEU:CD1	75:d8:58:GLU:H	2.22	0.44
1:A:380:U:C5	11:K:5:PRO:HB3	2.53	0.44
1:A:397:A:O3'	10:J:50:GLY:HA2	2.18	0.44
1:A:455:C:H3'	1:A:456:A:H8	1.82	0.44
1:A:591:A:OP1	11:K:24:LEU:HD21	2.17	0.44
1:A:594:A:H4'	1:A:595:G:H5'	2.00	0.44
1:A:900:A:H3'	1:A:901:G:N2	2.28	0.44
1:A:927:C:H2'	1:A:928:U:C6	2.50	0.44
1:A:959:U:C6	14:O:17:PRO:HG3	2.53	0.44
1:A:1098:U:H1'	23:X:71:LYS:HD2	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1164:G:O2'	1:A:1612:U:O2	2.33	0.44
1:A:1274:C:H5	70:i:95:SER:HA	1.83	0.44
1:A:1358:G:H4'	20:U:129:GLN:O	2.18	0.44
1:A:1559:A:N6	19:T:134:ARG:HD3	2.33	0.44
1:A:1587:A:H2'	1:A:1588:G:H8	1.82	0.44
1:A:1682:U:O2'	1:A:1683:C:H5'	2.17	0.44
2:B:62:ARG:HG2	22:W:36:VAL:HG22	2.00	0.44
3:C:30:PHE:O	3:C:46:THR:N	2.33	0.44
3:C:125:VAL:HG22	3:C:137:ILE:CD1	2.48	0.44
4:D:59:HIS:HB2	4:D:61:LEU:HD21	1.99	0.44
4:D:120:GLU:HB2	70:i:120:GLU:OE2	2.18	0.44
6:F:100:ARG:HG2	6:F:102:VAL:HG23	2.00	0.44
6:F:156:VAL:O	6:F:157:ASN:HB2	2.18	0.44
14:O:33:VAL:HA	14:O:36:GLN:CD	2.43	0.44
18:S:5:ARG:HD3	18:S:5:ARG:H	1.82	0.44
20:U:112:GLY:C	20:U:113:ILE:HD12	2.43	0.44
21:V:43:LYS:C	21:V:45:ALA:N	2.76	0.44
21:V:65:ILE:HG21	76:e:43:PHE:CZ	2.53	0.44
24:Y:74:VAL:CG1	24:Y:104:LEU:HD11	2.46	0.44
24:Y:125:VAL:C	24:Y:126:LYS:HG3	2.43	0.44
27:DA:56:VAL:HG11	27:DA:104:LEU:HB3	2.00	0.44
28:DC:69:TRP:CB	46:CN:64:LYS:HB2	2.46	0.44
31:CD:48:ILE:HG22	31:CD:59:ALA:HA	2.00	0.44
31:CD:68:LYS:HE2	35:AR:2522:G:C2	2.53	0.44
35:1:26:A:C4	35:1:27:C:C6	3.06	0.44
35:1:217:U:O2'	27:9:103:LYS:HE2	2.17	0.44
35:1:239:G:O2'	35:1:240:U:H5'	2.18	0.44
35:1:301:G:O6	80:1:3621:OHX:N2	2.50	0.44
35:1:423:A:H2'	35:1:424:G:O4'	2.18	0.44
35:1:807:A:H61	35:1:934:G:H22	1.66	0.44
35:1:948:C:H2'	35:1:949:C:H6	1.83	0.44
35:1:1178:G:O6	59:AG:20:LYS:NZ	2.48	0.44
35:1:2200:U:C2	35:1:2201:G:C8	3.06	0.44
35:1:2298:U:O4	35:1:2923:U:H5	2.01	0.44
35:1:2667:A:H4'	70:i:33:LYS:HE3	1.98	0.44
35:1:2728:G:O5'	54:2:83:ARG:NH2	2.50	0.44
35:1:3033:A:H2'	35:1:3034:C:C6	2.53	0.44
35:1:3131:U:H2'	35:1:3132:C:C6	2.53	0.44
80:1:3420:OHX:N5	80:1:4129:OHX:N5	2.66	0.44
31:j:48:ILE:HB	69:AQ:63:THR:HG21	1.99	0.44
42:p:134:TYR:CD2	42:p:190:VAL:HG21	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:q:25:VAL:O	43:q:35:THR:HA	2.18	0.44
43:q:101:VAL:HG22	43:q:114:VAL:HA	1.99	0.44
43:q:162:GLN:HE21	66:AN:89:TYR:HD2	1.66	0.44
48:v:104:GLU:HA	48:v:160:GLU:HG3	1.99	0.44
64:AL:56:ILE:HD12	64:AL:56:ILE:HA	1.70	0.44
35:AR:139:G:H2'	35:AR:140:C:H6	1.83	0.44
35:AR:304:G:H3'	35:AR:304:G:OP2	2.18	0.44
35:AR:634:C:H5'	59:DH:21:ARG:O	2.17	0.44
35:AR:1151:U:OP1	87:AR:4304:HOH:O	2.21	0.44
35:AR:1307:G:O2'	35:AR:1308:A:N7	2.40	0.44
35:AR:1691:U:H2'	35:AR:1692:U:C6	2.53	0.44
35:AR:1806:A:OP2	80:AR:3527:OHX:N3	2.50	0.44
35:AR:2407:C:H1'	35:AR:2818:U:N3	2.33	0.44
36:AS:8:G:H2'	36:AS:9:C:C6	2.52	0.44
42:CJ:143:ILE:HG23	42:CJ:175:VAL:HG11	2.00	0.44
45:CM:23:VAL:CG2	45:CM:29:ARG:HG2	2.48	0.44
49:CQ:62:THR:OG1	49:CQ:69:GLY:HA2	2.18	0.44
52:CT:91:SER:O	52:CT:94:VAL:HG22	2.18	0.44
54:CV:159:PHE:HD1	54:CV:159:PHE:O	2.00	0.44
58:CZ:25:LYS:O	58:CZ:27:ARG:NH1	2.50	0.44
59:DH:15:SER:OG	59:DH:16:TYR:N	2.50	0.44
71:p0:91:GLU:HB3	71:p0:92:PRO:HD2	1.93	0.44
79:h:262:VAL:HG13	79:h:271:VAL:HB	1.98	0.44
1:sR:25:C:OP2	1:sR:26:A:H2'	2.18	0.44
1:sR:85:A:OP1	80:sR:2032:OHX:N4	2.50	0.44
1:sR:328:A:H2'	1:sR:329:G:H8	1.80	0.44
1:sR:488:G:H1'	1:sR:500:C:N4	2.33	0.44
1:sR:516:G:H3'	1:sR:517:U:C6	2.52	0.44
1:sR:737:A:H2'	1:sR:738:G:C8	2.53	0.44
1:sR:772:G:H21	1:sR:774:A:H1'	1.82	0.44
1:sR:874:C:OP1	3:s1:159:SER:OG	2.30	0.44
1:sR:955:A:H4'	1:sR:1073:G:O2'	2.18	0.44
1:sR:1305:U:O2	80:sR:1933:OHX:N4	2.51	0.44
1:sR:1327:C:C2	1:sR:1328:G:C8	3.06	0.44
1:sR:1341:A:H1'	79:Rb:65:SER:OG	2.17	0.44
79:Rb:9:LEU:HD22	79:Rb:313:TRP:CA	2.47	0.44
79:Rb:48:THR:OG1	79:Rb:49:GLY:N	2.50	0.44
2:s0:13:ASP:HA	2:s0:16:LEU:CD1	2.48	0.44
2:s0:123:VAL:HG11	2:s0:129:ASP:HB2	1.98	0.44
5:s3:10:LYS:HD2	5:s3:14:ASP:OD1	2.17	0.44
9:s7:66:SER:O	9:s7:69:GLY:N	2.51	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c0:71:GLU:HG2	12:c0:71:GLU:O	2.17	0.44
20:c9:122:ARG:HG2	20:c9:122:ARG:HH11	1.82	0.44
73:d6:87:ARG:HH21	73:d6:92:ARG:C	2.26	0.44
77:e0:42:ARG:HA	77:e0:46:ASN:CB	2.47	0.44
1:A:338:C:H1'	10:J:5:ARG:HB3	1.99	0.44
1:A:1397:U:C4	1:A:1399:C:H1'	2.53	0.44
1:A:1568:C:H1'	1:A:1569:A:OP2	2.18	0.44
1:A:1759:C:H2'	1:A:1760:G:O4'	2.18	0.44
2:B:101:ARG:CD	2:B:103:THR:H	2.25	0.44
2:B:133:ILE:HD12	2:B:133:ILE:H	1.82	0.44
4:D:35:TRP:C	4:D:35:TRP:CD1	2.96	0.44
4:D:238:SER:HB2	4:D:239:PRO:HD2	2.00	0.44
7:G:82:PHE:CZ	75:d:49:ARG:HB3	2.53	0.44
8:H:7:TYR:HD1	8:H:8:PRO:HD2	1.81	0.44
10:J:36:THR:O	10:J:96:LEU:N	2.40	0.44
26:AA:89:VAL:HG22	26:AA:89:VAL:O	2.18	0.44
27:DA:120:GLN:HG2	27:DA:124:GLY:HA3	2.00	0.44
28:AB:51:GLY:O	51:y:175:ALA:HB3	2.17	0.44
29:AC:37:PRO:HG2	35:1:2738:A:O4'	2.17	0.44
28:DC:31:GLY:O	46:CN:2:ALA:N	2.51	0.44
28:DC:74:ASN:HB3	28:DC:76:ASP:H	1.82	0.44
31:CD:27:ALA:HA	31:CD:75:ILE:HB	1.99	0.44
31:CD:83:HIS:H	31:CD:86:GLN:HE21	1.66	0.44
35:1:821:U:H2'	35:1:822:G:C8	2.52	0.44
35:1:863:C:H2'	35:1:864:G:O4'	2.18	0.44
35:1:1584:U:H2'	35:1:1585:C:H6	1.82	0.44
35:1:1764:U:OP1	52:z:43:LYS:NZ	2.44	0.44
35:1:1867:A:H2'	35:1:1868:G:H8	1.82	0.44
35:1:2812:C:H2'	35:1:2813:A:C8	2.52	0.44
35:1:2883:U:H2'	35:1:2884:C:C6	2.53	0.44
35:1:3254:G:H2'	35:1:3255:U:O4'	2.18	0.44
35:1:3299:A:H2	35:1:3315:G:H22	1.64	0.44
36:3:9:C:OP1	54:2:28:SER:HB3	2.18	0.44
33:k:67:PHE:CD2	33:k:72:VAL:HG12	2.52	0.44
33:k:81:THR:OG1	33:k:205:VAL:HG21	2.18	0.44
39:m:33:ARG:O	39:m:37:VAL:HG23	2.18	0.44
41:o:166:ASN:HB3	41:o:180:SER:HA	1.99	0.44
45:s:18:VAL:HG22	45:s:70:THR:HG23	1.99	0.44
45:s:37:LEU:HA	45:s:37:LEU:HD22	1.61	0.44
64:AL:10:GLN:HA	64:AL:13:GLU:OE1	2.18	0.44
66:AN:92:ASP:O	66:AN:105:PRO:HG3	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:AP:72:LEU:N	68:AP:72:LEU:CD1	2.81	0.44
35:AR:511:G:H2'	35:AR:512:U:O4'	2.17	0.44
35:AR:811:U:H2'	35:AR:812:G:C8	2.53	0.44
35:AR:884:A:OP2	63:DL:4:GLY:HA3	2.18	0.44
35:AR:1252:A:H2'	35:AR:1253:U:H5'	2.00	0.44
35:AR:1913:A:N3	35:AR:2120:A:H2'	2.33	0.44
35:AR:2894:C:H2'	35:AR:2895:G:C8	2.53	0.44
35:AR:3185:U:O2	53:CU:169:SER:HA	2.17	0.44
42:CJ:34:PHE:CD1	42:CJ:39:ALA:HB1	2.53	0.44
42:CJ:156:ASP:CB	42:CJ:183:LYS:HG2	2.48	0.44
44:CL:180:GLU:O	44:CL:181:TYR:C	2.60	0.44
48:CP:154:PRO:O	48:CP:157:LYS:HG3	2.17	0.44
50:CR:102:ALA:O	50:CR:107:LEU:HD12	2.18	0.44
52:CT:4:LEU:HA	52:CT:7:GLN:OE1	2.18	0.44
55:CW:33:TYR:CE2	55:CW:63:VAL:HG11	2.52	0.44
68:DQ:99:GLN:HG2	68:DQ:102:GLN:OE1	2.18	0.44
71:p0:53:MET:SD	71:p0:85:GLY:HA3	2.58	0.44
70:sM:83:LYS:HA	70:sM:83:LYS:HE2	2.00	0.44
72:a:52:LYS:N	72:a:52:LYS:HD2	2.33	0.44
74:c:47:PHE:HE1	74:c:49:HIS:O	2.01	0.44
79:h:22:SER:HB2	79:h:69:GLN:O	2.18	0.44
79:h:304:GLY:CA	79:h:310:ILE:HG22	2.47	0.44
1:sR:78:A:H1'	8:s6:175:ILE:HG12	2.00	0.44
1:sR:542:A:O2'	1:sR:543:C:O5'	2.25	0.44
1:sR:590:C:H2'	1:sR:591:A:C8	2.53	0.44
1:sR:1003:A:H1'	1:sR:1005:A:N7	2.33	0.44
1:sR:1017:U:C2	1:sR:1018:U:C5	3.06	0.44
1:sR:1334:U:H2'	1:sR:1335:U:C6	2.53	0.44
1:sR:1380:U:H2'	1:sR:1381:U:C6	2.53	0.44
1:sR:1476:C:H5"	20:c9:44:GLU:CD	2.43	0.44
6:s4:124:GLY:HA2	6:s4:142:HIS:CE1	2.53	0.44
6:s4:205:PHE:HE2	6:s4:221:ARG:HH11	1.60	0.44
7:s5:160:VAL:CG2	75:d8:45:LYS:HB2	2.48	0.44
9:s7:46:ILE:HG12	9:s7:60:ILE:HG12	1.99	0.44
10:s8:8:ARG:HG3	10:s8:9:HIS:N	2.33	0.44
10:s8:54:LYS:HG2	10:s8:175:GLN:O	2.18	0.44
11:s9:105:LEU:HD12	11:s9:105:LEU:HA	1.76	0.44
19:c8:28:ILE:HG13	19:c8:57:ARG:HA	2.00	0.44
20:c9:101:ASN:O	20:c9:104:VAL:HG22	2.16	0.44
22:d1:56:SER:O	22:d1:60:ARG:HG3	2.18	0.44
1:A:447:U:H4'	6:F:24:SER:O	2.17	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:598:U:H2'	1:A:599:A:C8	2.50	0.43
1:A:722:G:H3'	1:A:723:G:C5'	2.46	0.43
1:A:933:A:OP2	73:b:37:LYS:NZ	2.45	0.43
1:A:953:G:OP2	14:O:94:LYS:NZ	2.40	0.43
1:A:1331:A:H61	5:E:160:SER:C	2.26	0.43
1:A:1353:U:H2'	1:A:1354:G:O4'	2.17	0.43
1:A:1392:U:H2'	1:A:1393:C:H6	1.82	0.43
1:A:1445:G:H5'	78:g:91:ILE:HD11	2.00	0.43
1:A:1637:C:C2	70:i:93:ARG:HG3	2.53	0.43
2:B:163:ASN:OD1	2:B:163:ASN:C	2.60	0.43
2:B:189:VAL:HB	2:B:193:GLN:CB	2.48	0.43
3:C:87:ARG:HB2	3:C:101:HIS:CG	2.53	0.43
5:E:8:LYS:H	5:E:8:LYS:HG3	1.67	0.43
5:E:66:ILE:HA	5:E:69:LEU:CD1	2.47	0.43
5:E:69:LEU:O	5:E:73:VAL:HG12	2.18	0.43
5:E:166:ASP:HB2	5:E:167:PHE:CD1	2.52	0.43
6:F:72:VAL:HA	6:F:89:VAL:O	2.18	0.43
9:I:82:GLU:O	9:I:86:GLN:CA	2.66	0.43
11:K:107:ARG:HH22	11:K:150:LEU:N	2.16	0.43
17:R:25:GLY:O	17:R:62:ASN:HA	2.18	0.43
22:W:35:ASN:ND2	22:W:52:THR:HG22	2.33	0.43
22:W:44:ARG:HB2	22:W:44:ARG:CZ	2.47	0.43
25:Z:27:VAL:HG23	25:Z:29:HIS:CE1	2.53	0.43
27:DA:24:SER:HA	27:DA:27:ARG:HB2	2.00	0.43
26:DB:9:LYS:NZ	26:DB:85:TYR:O	2.44	0.43
26:DB:104:PRO:HA	26:DB:107:ARG:HD3	1.99	0.43
30:AD:70:PHE:CD1	30:AD:70:PHE:C	2.96	0.43
31:CD:183:GLY:HA2	35:AR:896:A:H5'	1.99	0.43
32:AE:97:LEU:H	32:AE:97:LEU:HD12	1.83	0.43
35:1:523:A:OP2	80:1:3505:OHX:N5	2.50	0.43
35:1:2296:A:OP1	80:1:3619:OHX:N2	2.51	0.43
35:1:2960:C:C2	35:1:2961:G:C8	3.06	0.43
35:1:3190:C:OP1	49:w:168:TYR:OH	2.29	0.43
37:4:79:A:H3'	37:4:80:A:H4'	1.99	0.43
38:l:9:HIS:CD2	38:l:15:ALA:HB2	2.53	0.43
42:p:164:VAL:O	42:p:167:PRO:HD2	2.18	0.43
54:2:17:ARG:HD2	54:2:17:ARG:HA	1.83	0.43
54:2:49:GLN:O	54:2:52:MET:HG2	2.18	0.43
54:2:70:SER:HB2	54:2:92:ARG:HH12	1.81	0.43
59:AG:32:ILE:HG12	59:AG:100:ILE:CD1	2.43	0.43
61:AI:53:CYS:O	61:AI:57:VAL:HG23	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:AK:25:ARG:O	63:AK:25:ARG:HD2	2.18	0.43
63:AK:52:LYS:O	63:AK:56:ARG:HG3	2.19	0.43
66:AN:103:LEU:HD21	66:AN:111:ARG:H	1.82	0.43
35:AR:562:C:H2'	35:AR:563:U:C6	2.53	0.43
35:AR:999:G:O2'	35:AR:1000:C:H5'	2.18	0.43
35:AR:1602:A:H5"	52:CT:10:LEU:HD21	2.00	0.43
35:AR:1838:G:H4'	35:AR:1839:A:N3	2.33	0.43
35:AR:2264:U:OP2	80:AR:3457:OHX:N4	2.51	0.43
35:AR:2268:U:H2'	35:AR:2269:U:C6	2.52	0.43
35:AR:2561:A:C2	35:AR:2562:A:C5	3.06	0.43
35:AR:2709:C:H2'	35:AR:2710:C:C6	2.53	0.43
35:AR:2767:U:H2'	35:AR:2768:U:C6	2.53	0.43
35:AR:2900:A:C4	35:AR:2901:G:C8	3.06	0.43
35:AR:2901:G:O2'	35:AR:3024:A:N1	2.50	0.43
35:AR:3060:C:H1'	35:AR:3332:U:H1'	2.00	0.43
35:AR:3213:A:N7	47:CO:124:ARG:NH2	2.66	0.43
35:AR:3214:U:C4	47:CO:121:MET:HB2	2.52	0.43
35:AR:3218:A:H4'	35:AR:3219:G:O5'	2.16	0.43
35:AR:3228:C:H5"	47:CO:137:LYS:HE2	1.99	0.43
35:AR:3319:U:O2'	35:AR:3320:A:H5'	2.17	0.43
37:AT:86:U:H5'	37:AT:87:G:OP1	2.18	0.43
38:CF:108:LYS:HE2	38:CF:108:LYS:HB3	1.70	0.43
38:CF:295:ILE:HD12	38:CF:295:ILE:N	2.33	0.43
39:CG:215:ASP:OD1	39:CG:218:ARG:N	2.38	0.43
40:CH:165:LEU:HD11	59:DH:102:LEU:HD11	1.99	0.43
42:CJ:109:LEU:C	42:CJ:111:LYS:N	2.76	0.43
44:CL:80:SER:HB2	44:CL:84:ALA:HB3	1.99	0.43
44:CL:176:LEU:HD23	44:CL:181:TYR:HA	2.00	0.43
48:CP:15:GLN:HB3	62:DK:52:PRO:CD	2.48	0.43
48:CP:48:ALA:C	48:CP:53:TYR:HB3	2.43	0.43
48:CP:149:ASN:OD1	80:CP:302:OHX:N1	2.51	0.43
49:CQ:65:ASN:HB3	49:CQ:68:ARG:HD2	2.00	0.43
55:CW:80:THR:HG22	55:CW:84:LEU:CD1	2.47	0.43
60:DI:100:ILE:O	60:DI:100:ILE:HG22	2.18	0.43
79:h:61:PHE:HB3	79:h:92:TRP:CZ3	2.53	0.43
79:h:170:ILE:HD12	79:h:170:ILE:O	2.16	0.43
79:h:302:PHE:HA	79:h:312:VAL:CG1	2.42	0.43
1:sR:27:U:H2'	1:sR:28:A:C8	2.53	0.43
1:sR:406:U:H2'	1:sR:407:A:C8	2.53	0.43
1:sR:538:A:H2	1:sR:540:G:N2	2.16	0.43
1:sR:898:A:N3	1:sR:899:G:H1'	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1066:C:H2'	1:sR:1067:C:H6	1.83	0.43
1:sR:1588:G:OP1	80:sR:1980:OHX:N2	2.51	0.43
2:s0:200:ASP:OD2	18:c7:89:SER:HB3	2.18	0.43
4:s2:143:TYR:CD2	4:s2:147:ASN:HA	2.52	0.43
5:s3:120:TYR:HA	5:s3:123:VAL:HG12	2.00	0.43
5:s3:178:ARG:HG2	5:s3:178:ARG:HH11	1.81	0.43
7:s5:197:GLU:OE1	7:s5:209:TYR:N	2.50	0.43
9:s7:73:VAL:HG13	9:s7:74:GLN:N	2.19	0.43
10:s8:72:ILE:HG21	10:s8:112:TRP:CZ2	2.53	0.43
10:s8:180:ASP:OD1	10:s8:180:ASP:N	2.50	0.43
11:s9:129:ILE:HG22	11:s9:142:ASN:CA	2.42	0.43
13:c1:21:ASN:ND2	13:c1:31:THR:HA	2.19	0.43
13:c1:102:LYS:O	24:d3:13:ARG:NH2	2.51	0.43
15:c4:80:HIS:HA	15:c4:113:GLY:O	2.17	0.43
18:c7:109:LEU:O	18:c7:112:SER:OG	2.35	0.43
21:d0:26:LEU:O	21:d0:88:LYS:HA	2.18	0.43
24:d3:132:LEU:O	24:d3:133:LEU:C	2.60	0.43
75:d8:50:GLU:HG3	75:d8:51:ASN:N	2.33	0.43
78:e1:105:TYR:O	78:e1:117:LEU:HD13	2.17	0.43
1:A:106:U:H2'	1:A:107:C:O4'	2.18	0.43
1:A:152:U:H2'	1:A:153:G:H5"	2.00	0.43
1:A:638:U:C6	9:I:112:ARG:HD3	2.53	0.43
1:A:959:U:OP1	74:c:30:SER:HB2	2.17	0.43
1:A:1275:A:C2	1:A:1438:G:C4	3.06	0.43
1:A:1542:G:N2	1:A:1568:C:H1'	2.33	0.43
1:A:1625:C:H2'	1:A:1626:U:C6	2.53	0.43
1:A:1795:U:P	73:b:5:ARG:HH22	2.40	0.43
2:B:23:HIS:O	2:B:48:ILE:HD12	2.17	0.43
2:B:55:GLU:HB3	22:W:79:LEU:HD22	1.98	0.43
5:E:168:ILE:O	5:E:168:ILE:HD12	2.18	0.43
6:F:22:LYS:N	6:F:22:LYS:HD3	2.33	0.43
12:L:72:GLY:O	12:L:76:LEU:HD23	2.19	0.43
16:Q:19:GLY:H	19:T:94:ASP:HA	1.83	0.43
16:Q:95:GLY:C	16:Q:102:PHE:HB3	2.44	0.43
17:R:9:THR:CG2	17:R:88:GLY:HA2	2.48	0.43
22:W:71:ARG:NE	74:c:4:VAL:HG11	2.34	0.43
30:AD:81:VAL:HG22	30:AD:81:VAL:O	2.18	0.43
31:CD:2:GLY:HA2	35:AR:2415:C:OP1	2.18	0.43
32:AE:62:ARG:HB2	32:AE:66:GLY:O	2.18	0.43
30:DE:14:LEU:HA	30:DE:17:VAL:HG23	1.99	0.43
35:1:358:G:N2	35:1:361:A:OP2	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:535:G:O2'	35:1:554:A:N1	2.46	0.43
35:1:1700:G:H2'	35:1:1701:C:C6	2.53	0.43
35:1:1910:A:H2'	35:1:1911:A:C8	2.53	0.43
35:1:3291:G:H2'	35:1:3292:A:H8	1.83	0.43
36:3:11:A:H5"	36:3:13:A:C5	2.53	0.43
31:j:186:PHE:HB2	31:j:196:TRP:CZ3	2.52	0.43
41:o:208:SER:O	41:o:243:MET:HB3	2.17	0.43
42:p:138:HIS:O	42:p:142:LEU:HG	2.19	0.43
45:s:110:ILE:HA	45:s:114:ILE:HG22	2.00	0.43
48:v:114:ARG:CG	48:v:137:PRO:HG3	2.48	0.43
70:i:89:ARG:O	70:i:89:ARG:HG3	2.18	0.43
35:AR:177:U:H2'	35:AR:178:U:H6	1.84	0.43
35:AR:370:U:OP1	80:AR:3658:OHX:N5	2.51	0.43
35:AR:495:G:H2'	35:AR:496:C:O4'	2.18	0.43
35:AR:528:U:H2'	35:AR:529:A:H8	1.80	0.43
35:AR:664:U:H5'	38:CF:107:ARG:HA	2.00	0.43
35:AR:772:U:H2'	35:AR:773:G:O4'	2.18	0.43
35:AR:1495:U:H5	35:AR:1835:A:C2	2.36	0.43
35:AR:1613:A:OP1	64:DM:2:ALA:N	2.51	0.43
35:AR:2225:U:H2'	35:AR:2226:U:C6	2.53	0.43
35:AR:2271:A:N7	35:AR:2272:G:C6	2.86	0.43
35:AR:2294:U:OP2	56:CX:71:LYS:NZ	2.48	0.43
35:AR:2584:G:H1'	42:CJ:240:ASN:HD21	1.83	0.43
35:AR:2663:G:O6	80:AR:3401:OHX:N5	2.52	0.43
35:AR:3067:C:OP2	52:CT:62:ARG:NH2	2.52	0.43
35:AR:3127:A:H2'	35:AR:3128:G:O4'	2.17	0.43
35:AR:3151:U:H4'	35:AR:3294:A:O4'	2.18	0.43
36:AS:63:A:OP2	39:CG:282:ARG:HD3	2.18	0.43
38:CF:233:LEU:HA	38:CF:233:LEU:HD12	1.62	0.43
38:CF:255:PHE:HA	38:CF:258:LEU:HD13	1.99	0.43
52:CT:179:GLU:HA	52:CT:182:ASP:HB2	2.00	0.43
56:CX:18:PRO:HA	56:CX:51:ALA:HA	1.99	0.43
68:DQ:23:HIS:HA	68:DQ:73:GLU:O	2.18	0.43
68:DQ:40:LYS:HG3	68:DQ:44:ASP:OD2	2.17	0.43
68:DQ:83:LEU:HD23	68:DQ:83:LEU:HA	1.86	0.43
70:sM:84:LYS:O	70:sM:84:LYS:HG2	2.17	0.43
72:a:40:VAL:HA	72:a:72:GLY:H	1.82	0.43
79:h:22:SER:O	79:h:35:SER:O	2.36	0.43
79:h:61:PHE:HB3	79:h:92:TRP:CE3	2.52	0.43
1:sR:228:G:H1	1:sR:236:A:N6	2.15	0.43
1:sR:476:U:H5"	1:sR:477:A:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1126:G:H2'	1:sR:1127:G:H8	1.83	0.43
1:sR:1228:G:O2'	1:sR:1229:G:OP1	2.33	0.43
79:Rb:199:ILE:HG22	79:Rb:215:GLY:N	2.31	0.43
2:s0:7:PHE:HZ	2:s0:184:LEU:HD11	1.83	0.43
2:s0:76:ILE:O	2:s0:123:VAL:HA	2.18	0.43
2:s0:126:PRO:HA	2:s0:133:ILE:HD11	2.00	0.43
3:s1:90:GLU:CD	3:s1:91:VAL:H	2.26	0.43
4:s2:64:LYS:O	4:s2:134:LEU:HD21	2.18	0.43
5:s3:59:LEU:HG	5:s3:66:ILE:HG12	1.98	0.43
6:s4:245:LYS:O	6:s4:245:LYS:HG3	2.19	0.43
7:s5:34:GLN:HE21	7:s5:34:GLN:HB2	1.66	0.43
7:s5:189:THR:CG2	7:s5:192:GLU:H	2.29	0.43
7:s5:209:TYR:CE1	7:s5:213:LYS:HD2	2.53	0.43
8:s6:63:MET:HA	8:s6:98:ARG:O	2.17	0.43
9:s7:160:GLN:HA	9:s7:163:ASP:CG	2.43	0.43
11:s9:29:LYS:HA	77:e0:40:TYR:HE1	1.81	0.43
11:s9:163:PRO:CB	11:s9:169:PRO:HA	2.43	0.43
16:c5:18:ARG:NH1	19:c8:90:ASN:OD1	2.42	0.43
16:c5:90:ILE:HA	16:c5:107:ILE:CG2	2.49	0.43
21:d0:69:LYS:HD3	21:d0:80:GLU:OE2	2.18	0.43
22:d1:40:ASP:H	22:d1:46:ILE:HD11	1.83	0.43
23:d2:15:ASN:HD21	23:d2:72:CYS:H	1.67	0.43
23:d2:40:VAL:HG21	23:d2:103:ILE:CG1	2.48	0.43
75:d8:62:GLU:HA	75:d8:62:GLU:OE1	2.19	0.43
1:A:138:A:C6	1:A:142:G:H1'	2.53	0.43
1:A:530:C:N3	1:A:531:C:C5	2.86	0.43
1:A:532:U:H5"	25:Z:64:PHE:CD1	2.53	0.43
1:A:950:C:H2'	1:A:951:A:C8	2.53	0.43
1:A:1073:G:H4'	14:O:10:GLY:CA	2.47	0.43
1:A:1281:G:OP1	21:V:69:LYS:HD3	2.19	0.43
1:A:1433:G:H2'	1:A:1434:U:C6	2.52	0.43
1:A:1472:C:H4'	1:A:1473:U:H5'	1.99	0.43
1:A:1611:A:O3'	7:G:95:ASN:HB3	2.18	0.43
2:B:50:VAL:HA	2:B:53:THR:CG2	2.48	0.43
7:G:46:TRP:HH2	7:G:119:ASP:CA	2.30	0.43
9:I:98:ILE:O	9:I:98:ILE:HG13	2.19	0.43
14:O:61:THR:O	14:O:62:GLN:HG2	2.18	0.43
16:Q:71:GLU:CD	16:Q:71:GLU:H	2.26	0.43
16:Q:90:ILE:HD11	16:Q:112:LEU:HD21	2.01	0.43
18:S:20:TYR:OH	18:S:38:ILE:HD11	2.18	0.43
20:U:89:ARG:HH11	20:U:89:ARG:HG3	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Y:41:SER:O	24:Y:43:PHE:O	2.37	0.43
26:AA:126:LYS:H	26:AA:126:LYS:HG3	1.42	0.43
27:DA:56:VAL:CG1	27:DA:104:LEU:HB3	2.49	0.43
28:DC:21:ARG:HD2	35:AR:1369:A:H5"	2.00	0.43
30:AD:17:VAL:HG22	30:AD:98:SER:CB	2.47	0.43
33:CE:56:ILE:HG22	33:CE:74:GLU:HB2	2.00	0.43
35:1:62:A:H2'	35:1:63:A:C8	2.53	0.43
35:1:304:G:H5'	35:1:304:G:N3	2.33	0.43
35:1:401:U:H4'	35:1:403:C:C2	2.54	0.43
35:1:563:U:H2'	35:1:564:G:H8	1.83	0.43
35:1:583:G:OP1	80:n:201:OHX:N5	2.51	0.43
35:1:612:U:H2'	35:1:613:G:H8	1.82	0.43
35:1:981:U:O2'	35:1:982:C:OP1	2.33	0.43
35:1:1045:C:OP1	44:r:133:GLN:NE2	2.52	0.43
35:1:1805:C:H2'	35:1:1806:A:H8	1.82	0.43
35:1:2651:G:H5"	35:1:2652:U:O4'	2.19	0.43
35:1:2689:A:H2'	35:1:2689:A:N3	2.33	0.43
35:1:2853:A:O3'	44:r:64:ALA:HB2	2.18	0.43
35:1:3365:U:H2'	35:1:3366:G:C8	2.53	0.43
31:j:28:LYS:HB3	31:j:123:ARG:HB3	2.01	0.43
31:j:30:ARG:NH2	31:j:33:ASP:OD1	2.51	0.43
33:k:41:VAL:CG1	33:k:185:GLY:HA3	2.46	0.43
39:m:37:VAL:CG1	39:m:67:SER:HB2	2.47	0.43
61:AI:47:VAL:O	61:AI:51:ILE:HG13	2.18	0.43
62:AJ:28:TYR:O	62:AJ:29:LYS:HD3	2.18	0.43
64:AL:14:LEU:HD22	64:AL:17:ARG:HH21	1.82	0.43
35:AR:75:G:H4'	46:CN:70:ARG:NH2	2.33	0.43
35:AR:501:A:H2'	35:AR:502:U:H6	1.82	0.43
35:AR:627:U:H2'	35:AR:628:A:H8	1.83	0.43
35:AR:746:A:H2'	35:AR:747:A:H8	1.83	0.43
35:AR:1240:A:H2'	35:AR:1241:U:H5'	2.01	0.43
35:AR:1750:A:H1'	35:AR:1752:A:N7	2.33	0.43
35:AR:1784:G:H2'	35:AR:1785:U:O4'	2.18	0.43
35:AR:1952:G:H5'	35:AR:1953:G:OP2	2.18	0.43
35:AR:2615:G:H2'	35:AR:2616:C:C6	2.53	0.43
35:AR:2668:U:H2'	35:AR:2669:G:H8	1.82	0.43
35:AR:2830:G:H1'	35:AR:2861:U:C2	2.52	0.43
35:AR:2987:A:H2'	35:AR:2988:C:H6	1.83	0.43
36:AS:46:A:OP1	39:CG:158:ARG:HG2	2.18	0.43
38:CF:346:LYS:HD3	38:CF:346:LYS:HA	1.76	0.43
42:CJ:240:ASN:OD1	42:CJ:241:LYS:N	2.51	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CK:8:GLN:HB3	43:CK:72:LYS:HD2	2.00	0.43
47:CO:54:PRO:O	47:CO:56:GLN:HG2	2.18	0.43
62:DK:80:PHE:O	62:DK:84:LYS:HG3	2.18	0.43
62:DK:98:ARG:CZ	62:DK:98:ARG:HA	2.49	0.43
73:b:75:VAL:O	73:b:78:ALA:N	2.51	0.43
74:c:19:HIS:HE1	74:c:21:LEU:HB2	1.80	0.43
79:h:80:ALA:O	79:h:91:LEU:HA	2.18	0.43
79:h:164:ASP:OD1	79:h:166:SER:HB3	2.18	0.43
1:sR:889:U:H2'	1:sR:890:C:H6	1.84	0.43
1:sR:1390:U:HO2'	1:sR:1391:A:H8	1.64	0.43
1:sR:1553:G:N2	1:sR:1555:A:H3'	2.34	0.43
79:Rb:34:LEU:CD2	79:Rb:80:ALA:HB1	2.48	0.43
2:s0:13:ASP:OD2	2:s0:179:ARG:NH2	2.51	0.43
2:s0:157:ASP:O	22:d1:66:ASP:HA	2.18	0.43
3:s1:66:VAL:CG2	15:c4:33:LEU:HB3	2.48	0.43
9:s7:55:LYS:HD2	9:s7:87:ASP:HA	2.00	0.43
9:s7:62:VAL:HG12	9:s7:66:SER:OG	2.18	0.43
10:s8:40:ALA:O	10:s8:59:ARG:HB2	2.18	0.43
10:s8:83:TYR:O	10:s8:100:ALA:O	2.36	0.43
17:c6:89:LEU:HD23	17:c6:89:LEU:C	2.44	0.43
18:c7:61:ILE:HD12	18:c7:62:GLN:N	2.33	0.43
23:d2:111:MET:HE1	23:d2:119:LYS:HD2	1.99	0.43
77:e0:50:VAL:CG1	77:e0:54:ARG:HD3	2.48	0.43
1:A:1203:A:OP2	80:A:2151:OHX:N3	2.52	0.43
1:A:1351:G:C6	1:A:1375:A:N1	2.86	0.43
2:B:9:LEU:HA	2:B:9:LEU:HD22	1.43	0.43
2:B:88:LYS:HD2	2:B:88:LYS:HA	1.46	0.43
2:B:122:ILE:CD1	2:B:144:ILE:HD12	2.48	0.43
2:B:185:ARG:HA	2:B:185:ARG:HD2	1.60	0.43
4:D:103:VAL:HG12	4:D:113:LEU:HD23	2.00	0.43
4:D:214:ALA:O	4:D:217:ALA:HB3	2.19	0.43
7:G:57:SER:HB2	7:G:167:ARG:HH12	1.83	0.43
7:G:222:LYS:HA	7:G:222:LYS:HD2	1.82	0.43
9:I:63:PRO:O	9:I:66:SER:OG	2.36	0.43
11:K:74:ASN:HA	11:K:77:ILE:HD11	2.01	0.43
13:M:20:PHE:CD1	13:M:20:PHE:C	2.95	0.43
14:O:37:ILE:CD1	14:O:74:ILE:HD12	2.49	0.43
15:P:26:THR:O	15:P:44:GLY:HA2	2.18	0.43
20:U:11:ALA:HA	20:U:63:ARG:NH1	2.25	0.43
20:U:11:ALA:CA	20:U:63:ARG:HH12	2.25	0.43
20:U:49:ASP:CB	20:U:53:TRP:HB3	2.47	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:Y:57:LEU:HD11	24:Y:73:ARG:HB2	2.00	0.43
26:DB:105:SER:O	26:DB:108:GLU:HG2	2.19	0.43
31:CD:108:PRO:O	31:CD:111:THR:OG1	2.30	0.43
31:CD:224:THR:OG1	35:AR:2202:C:O4'	2.29	0.43
33:CE:209:PHE:HB3	33:CE:282:ILE:CD1	2.48	0.43
30:DE:13:LYS:CD	30:DE:103:THR:HG21	2.48	0.43
35:1:123:A:C6	35:1:150:A:C5	3.06	0.43
35:1:192:C:H2'	35:1:193:C:H6	1.82	0.43
35:1:421:G:O6	35:1:2383:C:O2'	2.30	0.43
35:1:663:C:H2'	35:1:664:U:C6	2.53	0.43
35:1:953:G:C8	35:1:1117:G:C8	3.06	0.43
35:1:975:C:H2'	35:1:976:U:C6	2.52	0.43
35:1:1390:A:N6	35:1:1418:A:O2'	2.50	0.43
35:1:1522:U:H3'	58:8:113:LEU:HD22	2.01	0.43
35:1:1685:C:H2'	35:1:1686:U:H6	1.84	0.43
35:1:1791:C:H2'	35:1:1792:C:C6	2.54	0.43
35:1:1792:C:H2'	35:1:1795:U:C5	2.53	0.43
35:1:1824:U:C2	35:1:1825:G:C8	3.07	0.43
35:1:1917:C:P	52:z:85:ARG:HH12	2.41	0.43
35:1:2113:A:O2'	35:1:2116:G:N7	2.50	0.43
35:1:3151:U:OP2	33:k:132:LYS:NZ	2.45	0.43
37:4:13:A:O2'	50:x:121:GLN:O	2.34	0.43
39:m:63:GLN:HB2	39:m:65:ILE:HD11	2.01	0.43
39:m:208:MET:HE2	39:m:233:ALA:CA	2.48	0.43
41:o:157:ASN:O	41:o:158:LYS:HD2	2.18	0.43
43:q:140:VAL:CG1	43:q:143:GLU:HB2	2.49	0.43
50:x:48:LEU:O	50:x:51:VAL:HG22	2.18	0.43
51:y:126:GLN:O	51:y:129:VAL:HG22	2.19	0.43
58:8:105:VAL:HG11	58:8:135:ILE:HD13	2.00	0.43
68:AP:35:LEU:O	68:AP:36:PHE:HB2	2.19	0.43
35:AR:105:C:H2'	35:AR:106:A:H8	1.83	0.43
35:AR:277:G:H2'	35:AR:278:U:H6	1.83	0.43
35:AR:692:A:OP1	48:CP:201:ARG:NH2	2.49	0.43
35:AR:992:A:O2'	35:AR:993:G:H5'	2.19	0.43
35:AR:1392:G:O2'	35:AR:1417:G:N2	2.48	0.43
35:AR:2218:G:H2'	35:AR:2219:A:C8	2.54	0.43
35:AR:2233:A:OP2	80:AR:3463:OHX:N5	2.51	0.43
35:AR:2315:G:H2'	35:AR:2316:G:H8	1.84	0.43
35:AR:2827:U:O4	80:AR:3403:OHX:N6	2.51	0.43
35:AR:2986:U:C2	35:AR:2987:A:C8	3.06	0.43
35:AR:3180:A:OP1	49:CQ:171:LYS:NZ	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:3350:C:O2'	35:AR:3351:U:OP1	2.33	0.43
80:AR:3525:OHX:N2	37:AT:30:C:OP2	2.51	0.43
38:CF:206:LEU:O	38:CF:248:VAL:HA	2.18	0.43
41:CI:216:VAL:HG21	41:CI:226:GLY:O	2.19	0.43
43:CK:101:VAL:O	80:CK:202:OHX:N6	2.51	0.43
44:CL:205:SER:OG	44:CL:208:ASN:OD1	2.20	0.43
45:CM:78:GLU:O	45:CM:82:ARG:HG3	2.19	0.43
45:CM:90:GLN:C	45:CM:91:LEU:HD23	2.43	0.43
49:CQ:156:LEU:HD23	49:CQ:156:LEU:HA	1.91	0.43
59:DH:53:TYR:CZ	59:DH:65:ARG:HB2	2.54	0.43
67:DP:3:ALA:HB3	1:sR:1773:C:OP1	2.19	0.43
78:g:105:TYR:CD1	78:g:105:TYR:N	2.86	0.43
79:h:241:PHE:CE2	79:h:288:HIS:NE2	2.86	0.43
1:sR:247:A:H1'	13:c1:38:ALA:O	2.18	0.43
1:sR:477:A:P	77:e0:28:LYS:NZ	2.91	0.43
1:sR:478:A:H4'	11:s9:124:HIS:HA	2.00	0.43
1:sR:825:U:H2'	1:sR:826:U:C6	2.54	0.43
1:sR:1044:U:C2	1:sR:1045:C:C5	3.07	0.43
1:sR:1081:A:H8	1:sR:1081:A:OP2	2.01	0.43
1:sR:1203:A:C2	1:sR:1556:A:C4	3.05	0.43
1:sR:1402:G:H2'	1:sR:1403:C:C6	2.54	0.43
1:sR:1742:U:H2'	1:sR:1743:U:C6	2.54	0.43
79:Rb:35:SER:O	79:Rb:42:LEU:HD12	2.19	0.43
79:Rb:189:GLU:HA	5:s3:225:TYR:HB2	2.01	0.43
2:s0:10:THR:O	2:s0:13:ASP:HB2	2.18	0.43
2:s0:39:ASN:O	2:s0:47:VAL:HG12	2.17	0.43
4:s2:49:LYS:HB3	4:s2:243:TYR:CD2	2.54	0.43
5:s3:119:ALA:HB3	5:s3:152:PHE:CD2	2.53	0.43
6:s4:160:VAL:HG23	6:s4:162:ILE:CD1	2.44	0.43
6:s4:207:LEU:HD23	6:s4:221:ARG:HG2	2.00	0.43
7:s5:144:GLU:HB2	7:s5:160:VAL:O	2.17	0.43
10:s8:81:VAL:HG12	10:s8:94:ASN:HA	2.00	0.43
11:s9:12:TYR:CE2	11:s9:40:LYS:HD2	2.54	0.43
11:s9:121:SER:HG	11:s9:124:HIS:H	1.65	0.43
24:d3:70:LYS:HB3	24:d3:93:LEU:HD12	2.00	0.43
1:A:20:G:H5'	1:A:571:G:C8	2.53	0.43
1:A:190:C:OP2	1:A:190:C:H6	2.01	0.43
1:A:435:C:H2'	1:A:436:A:C8	2.53	0.43
1:A:654:C:H5'	1:A:655:G:OP2	2.18	0.43
1:A:1293:U:H1'	2:B:111:ILE:HG12	1.99	0.43
1:A:1537:C:H4'	1:A:1538:U:O5'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:75:ALA:HB1	2:B:174:TRP:CH2	2.54	0.43
2:B:122:ILE:HD12	2:B:144:ILE:HD12	2.00	0.43
3:C:91:VAL:HG13	3:C:96:LEU:N	2.33	0.43
3:C:144:ARG:HD2	3:C:145:LYS:H	1.83	0.43
4:D:120:GLU:CG	4:D:123:GLY:H	2.31	0.43
4:D:169:LEU:HD12	4:D:169:LEU:N	2.33	0.43
6:F:18:TRP:CZ2	6:F:31:PRO:HG3	2.54	0.43
9:I:40:PRO:C	9:I:41:LEU:HD22	2.44	0.43
15:P:19:ILE:O	15:P:83:ILE:HA	2.18	0.43
19:T:2:SER:HA	19:T:55:HIS:CD2	2.54	0.43
21:V:68:ARG:NH2	21:V:77:LYS:HA	2.32	0.43
28:AB:82:ILE:O	28:AB:87:ARG:HD3	2.18	0.43
26:DB:89:VAL:HG23	26:DB:92:PHE:HE1	1.83	0.43
28:DC:2:PRO:HG2	28:DC:5:PHE:CD2	2.54	0.43
28:DC:90:TYR:HB3	28:DC:100:PRO:HG3	2.01	0.43
30:AD:41:LEU:N	30:AD:92:ILE:HD11	2.33	0.43
31:CD:86:GLN:HG2	31:CD:88:ILE:HD12	2.01	0.43
29:DD:5:LYS:HE2	29:DD:8:THR:HB	2.00	0.43
30:DE:50:VAL:HG11	35:AR:2552:C:H2'	2.00	0.43
35:1:26:A:C4	35:1:330:G:C8	3.06	0.43
35:1:738:A:H2'	35:1:739:G:C8	2.53	0.43
35:1:789:A:H2'	35:1:790:U:H6	1.83	0.43
35:1:805:G:H1'	38:l:73:ARG:NH1	2.34	0.43
35:1:955:U:H2'	35:1:956:U:C6	2.54	0.43
35:1:979:U:H1'	35:1:980:A:C8	2.53	0.43
35:1:1060:U:O2	54:2:101:CYS:HB2	2.18	0.43
35:1:1281:G:C2	35:1:1282:G:C5	3.07	0.43
35:1:1562:C:HO2'	35:1:1563:C:C5'	2.32	0.43
35:1:1595:U:C2	35:1:1596:C:C5	3.07	0.43
35:1:1777:U:H4'	35:1:2099:A:O2'	2.18	0.43
35:1:2310:U:O5'	80:1:3477:OHX:N1	2.51	0.43
35:1:2601:A:H2'	35:1:2602:G:C8	2.53	0.43
35:1:2730:G:H4'	51:y:184:PHE:CG	2.53	0.43
35:1:2834:G:C4	35:1:2835:U:C5	3.06	0.43
35:1:3351:U:HO2'	35:1:3352:U:P	2.40	0.43
31:j:179:LEU:O	31:j:180:LEU:HB2	2.18	0.43
33:k:283:TYR:CZ	33:k:325:LYS:HB2	2.53	0.43
41:o:46:GLU:HG3	41:o:47:ARG:N	2.33	0.43
43:q:174:LYS:HB2	66:AN:127:LEU:CD2	2.46	0.43
45:s:14:ILE:HD11	45:s:76:ALA:HB3	1.99	0.43
47:u:36:VAL:HG21	47:u:55:ARG:NH2	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:z:89:LEU:HD12	52:z:90:PRO:HD2	2.01	0.43
54:2:50:LYS:O	54:2:92:ARG:HD2	2.18	0.43
57:7:45:ASN:HB3	57:7:48:ARG:CG	2.48	0.43
63:AK:72:ARG:NH1	63:AK:72:ARG:HG2	2.33	0.43
64:AL:26:LYS:HZ2	64:AL:28:ASN:ND2	2.17	0.43
35:AR:324:A:H2'	35:AR:325:A:C8	2.53	0.43
35:AR:621:A:H3'	80:AR:3620:OHX:N2	2.33	0.43
35:AR:981:U:H2'	35:AR:982:C:O4'	2.18	0.43
35:AR:1680:G:H2'	35:AR:1681:U:C6	2.54	0.43
35:AR:1857:C:N4	35:AR:1858:A:N1	2.67	0.43
35:AR:2555:G:N1	60:DI:96:GLU:OE2	2.49	0.43
37:AT:18:U:H2'	37:AT:19:C:C6	2.53	0.43
38:CF:234:ASN:OD1	38:CF:236:LEU:N	2.44	0.43
41:CI:108:LEU:HD21	41:CI:115:THR:HG23	2.00	0.43
46:CN:138:VAL:HG21	61:DJ:118:ILE:HB	2.00	0.43
49:CQ:56:ASP:O	49:CQ:59:ARG:HG2	2.17	0.43
50:CR:95:LEU:HD13	50:CR:148:LEU:HD11	2.00	0.43
50:CR:111:LYS:HE2	50:CR:152:GLU:HB3	2.00	0.43
53:CU:12:ARG:HH11	53:CU:22:PRO:HD2	1.82	0.43
54:CV:100:LYS:HD2	54:CV:100:LYS:O	2.18	0.43
56:CX:84:SER:HA	56:CX:94:TYR:HB3	2.00	0.43
34:DG:104:ASN:HA	34:DG:107:VAL:HG12	2.01	0.43
60:DI:82:ALA:C	60:DI:84:CYS:N	2.70	0.43
63:DL:58:THR:O	63:DL:61:THR:OG1	2.32	0.43
70:sM:72:ARG:NH1	1:sR:1460:A:O2'	2.46	0.43
73:b:36:ILE:CD1	73:b:73:TYR:HB2	2.47	0.43
74:c:61:THR:O	74:c:62:ILE:HG12	2.18	0.43
78:g:123:ASN:ND2	78:g:148:TYR:HB2	2.31	0.43
79:h:87:LYS:HB3	79:h:106:HIS:O	2.18	0.43
79:h:131:ILE:HB	79:h:144:LEU:HB2	2.00	0.43
1:sR:81:G:C2	1:sR:82:U:C2	3.06	0.43
1:sR:86:A:OP2	80:sR:2032:OHX:N2	2.51	0.43
1:sR:138:A:N7	1:sR:142:G:H5'	2.33	0.43
1:sR:542:A:OP1	1:sR:542:A:H3'	2.19	0.43
1:sR:916:U:C4	1:sR:917:U:C5	3.06	0.43
1:sR:1250:U:H2'	1:sR:1251:U:H5'	2.00	0.43
1:sR:1513:G:H1'	1:sR:1518:C:O2	2.19	0.43
79:Rb:43:ILE:HG22	79:Rb:44:SER:H	1.83	0.43
79:Rb:61:PHE:CD1	79:Rb:61:PHE:N	2.86	0.43
79:Rb:260:ILE:HD12	79:Rb:274:LEU:HB3	2.00	0.43
2:s0:85:ALA:HB1	2:s0:174:TRP:HB2	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:s2:109:GLY:N	4:s2:141:ARG:HH21	2.16	0.43
6:s4:43:PRO:HA	6:s4:82:TYR:O	2.18	0.43
6:s4:62:LYS:NZ	6:s4:66:MET:HE3	2.33	0.43
7:s5:169:ASN:H	7:s5:169:ASN:HD22	1.66	0.43
9:s7:67:LEU:HD12	9:s7:67:LEU:HA	1.59	0.43
10:s8:193:LEU:O	10:s8:197:THR:HG23	2.19	0.43
11:s9:75:ALA:O	11:s9:79:ARG:HG3	2.18	0.43
16:c5:125:PRO:HG3	19:c8:129:TRP:CH2	2.53	0.43
19:c8:28:ILE:HD12	19:c8:56:LYS:O	2.17	0.43
20:c9:42:GLY:HA2	20:c9:84:LYS:HD2	2.00	0.43
73:d6:38:ARG:HD3	73:d6:38:ARG:HA	1.75	0.43
73:d6:57:SER:HG	73:d6:58:VAL:N	2.16	0.43
1:A:482:U:C2	1:A:483:A:N7	2.86	0.43
1:A:638:U:H6	9:I:112:ARG:HD3	1.83	0.43
1:A:711:U:H4'	1:A:712:G:OP1	2.17	0.43
1:A:1175:U:O2	1:A:1464:G:N2	2.43	0.43
1:A:1229:G:H1'	1:A:1256:A:H61	1.83	0.43
1:A:1496:U:H4'	1:A:1519:U:O2'	2.19	0.43
1:A:1615:C:H2'	7:G:81:ARG:NE	2.29	0.43
2:B:185:ARG:HB2	22:W:45:ALA:O	2.18	0.43
3:C:82:ARG:HB3	3:C:103:MET:HE1	2.01	0.43
3:C:119:THR:HG22	3:C:143:THR:HG21	1.99	0.43
3:C:131:ASP:HB3	3:C:181:LEU:CD1	2.45	0.43
4:D:59:HIS:HA	22:W:15:ARG:NE	2.33	0.43
4:D:239:PRO:O	4:D:240:LEU:C	2.62	0.43
6:F:19:LEU:HB2	6:F:51:ARG:NH1	2.32	0.43
6:F:254:ARG:O	6:F:254:ARG:HD3	2.17	0.43
7:G:217:LEU:HD13	7:G:217:LEU:HA	1.92	0.43
8:H:137:ARG:O	8:H:140:ASN:N	2.51	0.43
11:K:86:LEU:HD11	11:K:90:LYS:O	2.19	0.43
21:V:24:ILE:HG13	21:V:91:ILE:HB	1.99	0.43
22:W:16:LYS:HE3	22:W:21:ASN:CG	2.43	0.43
23:X:77:PRO:O	23:X:79:PHE:N	2.52	0.43
28:AB:44:ASN:O	28:AB:48:TYR:HB2	2.18	0.43
28:DC:75:LEU:HA	28:DC:78:LEU:HB2	2.00	0.43
31:CD:32:LEU:HD13	31:CD:163:ARG:HD3	2.00	0.43
31:CD:223:SER:OG	31:CD:237:LEU:HD12	2.18	0.43
33:CE:114:VAL:HG22	33:CE:163:HIS:CG	2.54	0.43
33:CE:308:MET:O	33:CE:363:SER:HB2	2.19	0.43
35:1:17:G:H5"	58:8:46:TYR:HE1	1.84	0.43
35:1:200:C:OP1	27:9:60:ARG:NH1	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:374:A:H4'	35:1:375:A:OP1	2.17	0.43
35:1:901:G:OP1	63:AK:13:ASN:ND2	2.52	0.43
35:1:1590:G:C2	35:1:1591:G:C8	3.06	0.43
35:1:1811:G:H2'	35:1:1812:G:O4'	2.18	0.43
35:1:2947:G:H2'	35:1:2948:C:C6	2.54	0.43
35:1:3291:G:O6	80:1:4164:OHX:N2	2.51	0.43
36:3:49:G:H4'	36:3:50:U:O5'	2.19	0.43
39:m:86:TYR:CE1	39:m:247:ILE:HA	2.53	0.43
42:p:56:VAL:O	42:p:60:ARG:HG3	2.19	0.43
45:s:35:LYS:HG3	70:i:22:PRO:HD3	1.99	0.43
45:s:110:ILE:HD12	45:s:111:ASP:OD1	2.19	0.43
46:t:80:VAL:HG12	46:t:85:LEU:O	2.19	0.43
52:z:25:ASP:HB3	52:z:28:GLU:HB2	1.99	0.43
52:z:114:LYS:HA	52:z:114:LYS:HD2	1.75	0.43
55:5:14:THR:HG22	55:5:66:VAL:HG22	1.99	0.43
70:i:43:ASP:HB3	70:i:46:LYS:NZ	2.33	0.43
35:AR:290:G:H2'	35:AR:291:C:C6	2.53	0.43
35:AR:498:A:O2'	35:AR:3273:A:N1	2.45	0.43
35:AR:738:A:H2'	35:AR:739:G:C8	2.53	0.43
35:AR:900:G:H1'	35:AR:1589:A:H61	1.82	0.43
35:AR:1422:G:H2'	35:AR:1423:C:C6	2.54	0.43
35:AR:1478:C:H2'	35:AR:1479:U:C6	2.53	0.43
35:AR:1662:G:O6	80:AR:3421:OHX:N4	2.51	0.43
35:AR:1936:A:H2'	35:AR:1937:U:O4'	2.19	0.43
35:AR:2537:U:H1'	35:AR:2538:U:O4'	2.18	0.43
35:AR:2941:A:O5'	35:AR:2943:G:H4'	2.19	0.43
35:AR:2984:C:H2'	35:AR:2985:C:H6	1.84	0.43
35:AR:3006:A:H2'	35:AR:3007:U:O4'	2.19	0.43
35:AR:3239:G:N7	80:AR:3489:OHX:N5	2.67	0.43
35:AR:3306:U:H2'	35:AR:3307:A:H5"	2.01	0.43
38:CF:324:LEU:O	38:CF:327:LEU:O	2.36	0.43
40:CH:68:PRO:O	40:CH:71:VAL:HG22	2.19	0.43
45:CM:166:LYS:HB3	45:CM:167:TYR:HD1	1.83	0.43
47:CO:131:VAL:HG22	49:CQ:185:ALA:CB	2.48	0.43
52:CT:40:ALA:O	52:CT:44:LEU:HG	2.18	0.43
56:CX:10:LYS:NZ	56:CX:13:ILE:HG22	2.33	0.43
61:DJ:95:PHE:C	61:DJ:95:PHE:CD1	2.96	0.43
68:DQ:78:LYS:C	68:DQ:78:LYS:CD	2.79	0.43
69:DR:52:ALA:HB1	69:DR:68:ALA:O	2.19	0.43
72:a:54:VAL:HG11	72:a:83:LEU:HD22	1.99	0.43
72:a:95:HIS:CE1	72:a:96:SER:O	2.72	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
74:c:49:HIS:HD2	74:c:69:GLY:HA3	1.83	0.43
79:h:159:ASN:OD1	79:h:166:SER:OG	2.29	0.43
79:h:169:ILE:CG1	79:h:183:LEU:HD11	2.45	0.43
1:sR:393:C:H2'	1:sR:394:C:C6	2.53	0.43
1:sR:637:C:O2	9:s7:114:ARG:NH1	2.51	0.43
1:sR:721:U:O2'	1:sR:722:G:O4'	2.35	0.43
1:sR:763:G:H2'	1:sR:764:U:C6	2.53	0.43
1:sR:813:U:O2	1:sR:813:U:H2'	2.19	0.43
1:sR:913:G:H4'	1:sR:914:G:OP2	2.17	0.43
1:sR:1172:G:H2'	1:sR:1173:C:H6	1.82	0.43
1:sR:1183:A:C2	16:c5:100:LYS:HB2	2.54	0.43
1:sR:1267:G:H21	1:sR:1448:G:C5'	2.32	0.43
1:sR:1275:A:N1	1:sR:1438:G:C4	2.86	0.43
1:sR:1542:G:N2	1:sR:1568:C:H1'	2.33	0.43
1:sR:1559:A:H5"	19:c8:135:GLY:HA3	2.00	0.43
1:sR:1605:G:OP2	17:c6:127:LYS:HD3	2.19	0.43
79:Rb:96:THR:C	79:Rb:98:GLU:H	2.26	0.43
79:Rb:177:MET:HE1	79:Rb:179:LYS:HD3	2.01	0.43
2:s0:154:GLU:HA	22:d1:63:GLY:HA2	1.99	0.43
4:s2:141:ARG:O	22:d1:1:MET:HE1	2.19	0.43
7:s5:120:ILE:O	7:s5:124:LEU:HG	2.18	0.43
7:s5:127:GLN:HG2	7:s5:128:ASN:H	1.82	0.43
9:s7:85:PHE:CE1	9:s7:88:ARG:HD3	2.54	0.43
10:s8:84:HIS:NE2	10:s8:97:THR:OG1	2.33	0.43
16:c5:87:PRO:HA	16:c5:90:ILE:CG1	2.48	0.43
17:c6:7:VAL:HG12	17:c6:95:LYS:HD2	2.01	0.43
17:c6:29:ILE:HD12	17:c6:65:ILE:CG1	2.41	0.43
20:c9:76:LEU:HD11	20:c9:105:LEU:HD11	2.00	0.43
1:A:304:U:H1'	13:M:127:GLN:HE22	1.83	0.43
1:A:529:A:C4	1:A:530:C:C6	3.07	0.43
1:A:590:C:H2'	1:A:591:A:C8	2.53	0.43
1:A:685:A:HO2'	1:A:686:C:P	2.41	0.43
1:A:1617:U:H1'	75:d:22:ARG:O	2.18	0.43
2:B:26:ALA:O	2:B:45:VAL:HG23	2.19	0.43
4:D:169:LEU:HD11	4:D:217:ALA:CB	2.49	0.43
9:I:41:LEU:HG	9:I:70:PHE:HE1	1.84	0.43
9:I:56:LYS:HB2	9:I:88:ARG:CD	2.48	0.43
9:I:57:ALA:C	9:I:58:LEU:HD23	2.43	0.43
10:J:65:PHE:O	10:J:109:PHE:HZ	2.02	0.43
13:M:67:ARG:HH12	13:M:127:GLN:HG2	1.82	0.43
16:Q:83:MET:HE2	16:Q:83:MET:HB3	1.79	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:R:59:LYS:HB3	17:R:59:LYS:HE3	1.73	0.43
17:R:94:GLN:HA	17:R:94:GLN:OE1	2.19	0.43
20:U:18:TYR:HD1	20:U:18:TYR:O	2.02	0.43
23:X:117:ARG:HA	23:X:117:ARG:HD2	1.87	0.43
24:Y:48:HIS:CD2	24:Y:105:ALA:HB2	2.53	0.43
24:Y:101:GLU:O	24:Y:128:SER:N	2.52	0.43
27:DA:74:TYR:CZ	27:DA:77:LYS:HE2	2.54	0.43
26:DB:46:ILE:HD11	26:DB:48:ARG:O	2.19	0.43
28:DC:51:GLY:HA3	51:CS:173:GLU:C	2.44	0.43
28:DC:75:LEU:CD2	28:DC:78:LEU:HG	2.48	0.43
30:AD:70:PHE:HD1	30:AD:70:PHE:C	2.26	0.43
31:CD:186:PHE:HB2	31:CD:196:TRP:CZ3	2.53	0.43
30:DE:60:ALA:HB1	30:DE:65:THR:O	2.18	0.43
35:1:811:U:H2'	35:1:812:G:H8	1.83	0.43
35:1:911:C:N4	31:j:3:ARG:HD3	2.33	0.43
35:1:1901:A:O3'	35:1:2918:G:H5'	2.18	0.43
35:1:2111:G:O6	35:1:3333:G:H3'	2.18	0.43
35:1:2233:A:H2'	35:1:2234:G:O4'	2.19	0.43
35:1:3049:A:C2	33:k:75:ALA:HB2	2.54	0.43
35:1:3378:C:OP2	80:1:3431:OHX:N6	2.52	0.43
33:k:211:GLN:NE2	33:k:283:TYR:O	2.51	0.43
42:p:151:VAL:HG21	42:p:170:CYS:SG	2.59	0.43
42:p:218:ILE:HD12	42:p:219:ASP:N	2.33	0.43
45:s:24:GLY:O	45:s:25:GLU:HG2	2.19	0.43
48:v:188:ARG:HG3	48:v:188:ARG:NH1	2.33	0.43
49:w:59:ARG:HE	49:w:59:ARG:HB3	1.60	0.43
49:w:72:HIS:O	49:w:74:ARG:NH1	2.48	0.43
50:x:32:THR:HA	50:x:58:ILE:HG21	2.00	0.43
58:8:58:ASP:OD2	61:AI:25:LYS:NZ	2.48	0.43
67:AO:11:ARG:NH1	67:AO:11:ARG:HG3	2.34	0.43
35:AR:45:A:P	48:CP:85:THR:HG21	2.59	0.43
35:AR:1478:C:H2'	35:AR:1479:U:H6	1.84	0.43
35:AR:1572:U:HO2'	35:AR:1573:G:P	2.42	0.43
35:AR:1572:U:O2'	35:AR:1573:G:O5'	2.32	0.43
35:AR:1599:G:OP1	80:AR:3634:OHX:N2	2.52	0.43
35:AR:1644:C:H5"	35:AR:1645:U:H5"	2.01	0.43
35:AR:1807:G:C6	35:AR:1808:G:N1	2.87	0.43
35:AR:1879:A:H4'	35:AR:1880:U:OP2	2.18	0.43
35:AR:2200:U:H2'	35:AR:2201:G:O4'	2.17	0.43
35:AR:2541:U:H1'	35:AR:2542:U:P	2.58	0.43
35:AR:2709:C:H2'	35:AR:2710:C:H6	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:2746:A:H5'	39:CG:178:ASN:OD1	2.19	0.43
35:AR:2912:G:H1'	35:AR:3131:U:OP1	2.19	0.43
35:AR:3324:C:H4'	32:DF:13:THR:HG23	2.01	0.43
80:AR:3455:OHX:N3	42:CJ:54:GLU:OE1	2.51	0.43
36:AS:55:A:H2'	36:AS:56:A:O4'	2.19	0.43
37:AT:38:U:C6	61:DJ:78:LYS:HG2	2.54	0.43
37:AT:143:U:P	48:CP:38:ARG:HH22	2.41	0.43
38:CF:64:SER:HA	38:CF:75:PRO:HA	1.99	0.43
38:CF:354:VAL:O	38:CF:358:THR:HG23	2.18	0.43
45:CM:139:THR:HG22	45:CM:146:GLY:O	2.19	0.43
46:CN:56:PRO:HD2	46:CN:72:GLY:O	2.19	0.43
46:CN:57:VAL:HG23	46:CN:147:ILE:CG2	2.49	0.43
46:CN:60:ALA:HB3	46:CN:65:TYR:O	2.18	0.43
47:CO:21:VAL:HB	47:CO:63:VAL:CG1	2.48	0.43
49:CQ:34:VAL:HA	49:CQ:103:LYS:O	2.19	0.43
64:DM:13:GLU:HA	64:DM:16:ARG:HG2	2.00	0.43
64:DM:17:ARG:HH21	64:DM:52:TYR:HE2	1.65	0.43
69:DR:56:THR:HB	69:DR:63:THR:HG22	2.00	0.43
79:h:34:LEU:HG	79:h:73:LEU:CD2	2.49	0.43
1:sR:1280:C:H5'	76:d9:44:ARG:HH12	1.84	0.43
1:sR:1341:A:OP1	79:Rb:62:LYS:HG3	2.19	0.43
1:sR:1727:G:H2'	1:sR:1728:A:C8	2.54	0.43
2:s0:55:GLU:O	2:s0:58:VAL:HG22	2.18	0.43
3:s1:36:SER:HA	3:s1:41:ARG:HE	1.82	0.43
3:s1:157:GLN:O	3:s1:161:ILE:HD12	2.19	0.43
5:s3:14:ASP:O	5:s3:17:PHE:HB3	2.17	0.43
7:s5:61:TYR:OH	75:d8:49:ARG:HD3	2.18	0.43
9:s7:71:HIS:ND1	9:s7:131:PHE:CE1	2.87	0.43
11:s9:60:LEU:HD21	11:s9:93:LEU:CB	2.49	0.43
18:c7:66:VAL:HG23	18:c7:69:ILE:HD12	2.00	0.43
73:d6:10:ARG:HD3	73:d6:34:LYS:HA	2.00	0.43
73:d6:49:ALA:CB	73:d6:53:LEU:HD23	2.49	0.43
75:d8:11:LYS:HG2	75:d8:12:VAL:N	2.32	0.43
1:A:585:A:C2	1:A:586:G:C5	3.06	0.43
1:A:1039:A:C5'	22:W:62:ARG:HH12	2.31	0.43
1:A:1487:A:H2'	1:A:1488:G:O4'	2.18	0.43
2:B:64:ILE:HA	2:B:120:LEU:CD1	2.48	0.43
2:B:140:ASN:HD21	22:W:29:HIS:CA	2.30	0.43
3:C:133:TYR:CZ	3:C:220:GLN:HB2	2.54	0.43
4:D:79:GLU:HG2	4:D:186:LYS:CD	2.44	0.43
6:F:22:LYS:HD3	6:F:22:LYS:H	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:77:ARG:HH11	6:F:77:ARG:HG2	1.82	0.43
6:F:77:ARG:HG3	6:F:82:TYR:CE2	2.54	0.43
6:F:159:THR:HG22	6:F:160:VAL:N	2.33	0.43
8:H:7:TYR:CB	8:H:12:SER:HB2	2.49	0.43
10:J:200:LYS:HA	10:J:200:LYS:HD2	1.73	0.43
13:M:90:TYR:C	13:M:91:LEU:HD12	2.44	0.43
15:P:17:ALA:O	15:P:29:HIS:O	2.37	0.43
15:P:109:GLY:O	15:P:110:LEU:HD13	2.19	0.43
17:R:55:VAL:HG22	17:R:55:VAL:O	2.19	0.43
18:S:21:TYR:N	18:S:22:PRO:HD2	2.33	0.43
18:S:73:LEU:HD23	18:S:77:GLU:OE1	2.19	0.43
19:T:69:ILE:O	19:T:72:ILE:HG22	2.19	0.43
20:U:29:GLU:OE2	20:U:110:LYS:HE2	2.18	0.43
23:X:22:LYS:HA	74:c:3:LEU:HG	2.01	0.43
26:AA:36:HIS:HD2	35:1:1636:U:OP1	2.01	0.43
26:AA:53:VAL:HA	26:AA:57:HIS:ND1	2.33	0.43
28:AB:23:GLY:N	35:1:1114:U:OP1	2.28	0.43
29:AC:32:LEU:HG	35:1:749:C:H5"	2.00	0.43
28:DC:58:MET:HB2	28:DC:58:MET:HE2	1.76	0.43
30:AD:52:ARG:NH1	35:1:1729:A:H5'	2.34	0.43
33:CE:27:ALA:HB3	33:CE:218:ILE:HG22	2.00	0.43
33:CE:199:PHE:C	33:CE:200:GLU:HG2	2.44	0.43
35:1:79:U:C2	35:1:80:G:C8	3.06	0.43
35:1:265:A:C5'	62:AJ:34:SER:HB2	2.47	0.43
35:1:873:C:H5"	35:1:874:U:O5'	2.19	0.43
35:1:973:A:OP2	51:y:12:ARG:NH1	2.39	0.43
35:1:1093:A:O2'	35:1:1094:U:O5'	2.35	0.43
35:1:1685:C:H2'	35:1:1686:U:C6	2.54	0.43
35:1:2166:A:H2'	35:1:2167:A:C8	2.53	0.43
35:1:2556:C:OP1	60:AH:88:ARG:NH2	2.52	0.43
35:1:2655:U:H4'	35:1:2656:A:O4'	2.18	0.43
35:1:2777:G:H5'	35:1:2779:A:OP2	2.19	0.43
35:1:3028:G:H2'	35:1:3029:A:O4'	2.19	0.43
35:1:3164:C:H42	35:1:3287:U:H3	1.67	0.43
35:1:3164:C:O2'	35:1:3165:A:H8	2.01	0.43
35:1:3168:A:H2	35:1:3282:U:H3	1.66	0.43
33:k:113:GLU:CD	33:k:167:ARG:HD3	2.43	0.43
38:l:309:ARG:NH2	38:l:312:VAL:HB	2.33	0.43
39:m:239:ILE:H	39:m:239:ILE:HD12	1.84	0.43
41:o:132:PRO:HA	41:o:229:PHE:CG	2.54	0.43
42:p:61:GLN:HA	42:p:64:ILE:CG1	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:u:32:LEU:HD11	47:u:94:TRP:CD1	2.53	0.43
47:u:103:ILE:O	47:u:107:GLU:HG3	2.18	0.43
48:v:60:VAL:C	48:v:61:ILE:HD13	2.44	0.43
51:y:19:PRO:HD3	51:y:53:PHE:CD1	2.53	0.43
51:y:30:VAL:O	51:y:34:THR:HG23	2.18	0.43
55:5:36:TYR:CD2	55:5:83:TYR:CD2	3.06	0.43
60:AH:46:ASP:OD1	60:AH:46:ASP:N	2.51	0.43
35:AR:63:A:H2'	35:AR:64:G:C8	2.54	0.43
35:AR:308:A:H5'	35:AR:2223:A:O2'	2.18	0.43
35:AR:499:G:H2'	35:AR:500:C:H6	1.83	0.43
35:AR:985:U:H2'	35:AR:986:U:H6	1.83	0.43
35:AR:1029:G:C5	35:AR:1030:A:N7	2.87	0.43
35:AR:1063:G:C6	54:CV:109:VAL:HG23	2.54	0.43
35:AR:1070:U:H2'	35:AR:1071:U:O4'	2.19	0.43
35:AR:1231:A:OP2	80:AR:3509:OHX:N6	2.51	0.43
35:AR:2580:A:O2'	80:AR:3627:OHX:N1	2.52	0.43
35:AR:2861:U:OP1	80:AR:3403:OHX:N5	2.51	0.43
35:AR:2936:A:H2'	35:AR:2937:G:C8	2.53	0.43
36:AS:47:C:H2'	36:AS:48:U:H6	1.82	0.43
36:AS:71:G:H2'	36:AS:72:A:C8	2.53	0.43
41:CI:155:LYS:C	41:CI:156:ILE:HG13	2.43	0.43
51:CS:81:VAL:HG23	51:CS:101:VAL:HG13	2.01	0.43
52:CT:165:LYS:O	52:CT:165:LYS:HG2	2.19	0.43
73:b:42:ARG:O	73:b:66:LYS:HB2	2.18	0.43
79:h:69:GLN:HE22	79:h:112:SER:N	2.17	0.43
1:sR:370:A:H2'	1:sR:371:G:O4'	2.18	0.43
1:sR:610:G:H5'	1:sR:612:U:O4	2.18	0.43
1:sR:679:U:H2'	1:sR:680:U:O4'	2.19	0.43
1:sR:781:U:H5"	1:sR:781:U:O2	2.18	0.43
1:sR:887:A:C1'	15:c4:122:PRO:HB3	2.46	0.43
1:sR:1098:U:H3'	1:sR:1099:U:H5'	2.01	0.43
1:sR:1107:G:O2'	1:sR:1108:G:H5'	2.19	0.43
1:sR:1454:G:O3'	16:c5:122:THR:OG1	2.32	0.43
1:sR:1700:C:H5"	1:sR:1702:A:N1	2.34	0.43
1:sR:1735:U:H2'	1:sR:1736:G:O4'	2.18	0.43
79:Rb:42:LEU:HD12	79:Rb:42:LEU:HA	1.87	0.43
4:s2:179:VAL:HG11	4:s2:197:TYR:HD1	1.83	0.43
5:s3:48:VAL:HB	5:s3:86:LEU:HG	2.00	0.43
5:s3:143:ARG:O	5:s3:144:ALA:CB	2.67	0.43
7:s5:222:LYS:NZ	75:d8:58:GLU:CD	2.77	0.43
9:s7:139:ARG:HG3	9:s7:139:ARG:HH11	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:c0:55:VAL:N	12:c0:69:THR:HG22	2.34	0.43
15:c4:32:ASP:OD1	15:c4:32:ASP:C	2.61	0.43
16:c5:81:ARG:NH1	16:c5:117:GLY:HA2	2.33	0.43
16:c5:126:VAL:O	16:c5:130:ARG:CZ	2.67	0.43
17:c6:47:LYS:HD3	17:c6:47:LYS:HA	1.64	0.43
25:d4:18:LEU:O	25:d4:20:ARG:HG2	2.19	0.43
72:d5:47:TYR:O	72:d5:50:ILE:N	2.48	0.43
73:d6:75:VAL:O	73:d6:79:ILE:HG13	2.18	0.43
78:e1:143:LYS:HE3	78:e1:143:LYS:HB3	1.39	0.43
1:A:333:A:H62	10:J:27:PHE:HB2	1.83	0.43
1:A:703:G:N2	1:A:736:C:C2	2.87	0.43
1:A:793:A:H5'	1:A:794:U:N1	2.34	0.43
1:A:938:G:N2	1:A:941:A:OP2	2.34	0.43
1:A:947:U:H2'	1:A:948:G:C8	2.54	0.43
1:A:1085:G:N2	1:A:1088:A:OP2	2.27	0.43
1:A:1097:U:O2'	4:D:159:THR:HG21	2.19	0.43
1:A:1654:G:H2'	1:A:1745:G:N2	2.34	0.43
7:G:194:LEU:O	7:G:198:LEU:HG	2.19	0.43
9:I:112:ARG:O	9:I:113:PRO:C	2.62	0.43
14:O:67:THR:OG1	14:O:69:ASN:O	2.33	0.43
15:P:12:GLN:HG3	15:P:77:THR:HG21	2.00	0.43
15:P:131:GLY:O	73:b:22:ARG:NH2	2.51	0.43
19:T:97:ASP:OD1	80:T:201:OHX:N4	2.52	0.43
19:T:126:ARG:NH2	19:T:131:LEU:HD23	2.34	0.43
21:V:64:LYS:O	21:V:65:ILE:HD13	2.18	0.43
22:W:22:ARG:HH21	23:X:67:GLY:CA	2.31	0.43
22:W:73:ALA:HB1	22:W:78:LEU:HD11	2.01	0.43
26:AA:73:LYS:NZ	35:1:1636:U:H5"	2.33	0.43
26:DB:112:LYS:O	26:DB:115:LYS:HB3	2.19	0.43
28:DC:70:LYS:O	28:DC:70:LYS:HG2	2.19	0.43
33:CE:360:ASP:OD2	57:CY:17:ARG:NH1	2.51	0.43
30:DE:9:SER:OG	30:DE:12:GLN:OE1	2.14	0.43
35:1:540:U:C2	35:1:552:G:N2	2.87	0.43
35:1:870:G:N7	80:1:3444:OHX:N6	2.67	0.43
35:1:947:G:H2'	35:1:948:C:H6	1.83	0.43
35:1:1249:G:H2'	35:1:1250:G:H8	1.83	0.43
35:1:1565:G:H8	35:1:1565:G:O5'	2.02	0.43
35:1:1810:A:H2'	35:1:1811:G:C8	2.53	0.43
35:1:2164:A:OP1	31:j:8:GLN:HG2	2.19	0.43
35:1:2412:G:H2'	35:1:2413:A:C8	2.54	0.43
35:1:2520:A:O2'	35:1:2521:U:H5'	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2847:A:N7	35:1:2898:G:C6	2.87	0.43
36:3:47:C:H2'	36:3:48:U:C6	2.53	0.43
31:j:45:VAL:HG22	31:j:61:VAL:HG22	2.00	0.43
38:l:140:HIS:H	38:l:180:LYS:NZ	2.16	0.43
42:p:220:ALA:HA	42:p:224:ASP:OD1	2.19	0.43
43:q:104:VAL:HG11	43:q:106:LYS:HE2	2.00	0.43
47:u:20:VAL:HA	47:u:33:ALA:O	2.19	0.43
49:w:185:ALA:O	49:w:186:ALA:C	2.61	0.43
54:2:38:ASP:O	54:2:64:VAL:HG23	2.19	0.43
56:6:40:LYS:HE3	56:6:40:LYS:HB3	1.69	0.43
56:6:85:TRP:CH2	56:6:93:LEU:HG	2.54	0.43
63:AK:58:THR:O	63:AK:61:THR:HG23	2.19	0.43
64:AL:77:ARG:C	64:AL:78:LEU:HD12	2.44	0.43
70:i:75:ASP:OD1	70:i:75:ASP:N	2.51	0.43
35:AR:70:A:N1	35:AR:313:A:O2'	2.48	0.43
35:AR:265:A:H5'	62:DK:34:SER:HB2	2.01	0.43
35:AR:613:G:H2'	35:AR:614:C:C6	2.54	0.43
35:AR:979:U:H4'	35:AR:980:A:OP1	2.19	0.43
35:AR:1103:A:OP2	35:AR:1103:A:H4'	2.19	0.43
35:AR:1522:U:H4'	35:AR:1523:U:OP2	2.19	0.43
35:AR:3072:C:H2'	35:AR:3073:A:O4'	2.18	0.43
36:AS:48:U:O4	39:CG:58:LYS:HE3	2.19	0.43
36:AS:76:A:O2'	53:CU:50:LYS:HD2	2.19	0.43
41:CI:96:PRO:HG2	41:CI:99:PRO:HG3	2.01	0.43
41:CI:223:PHE:CE2	53:CU:35:VAL:HG11	2.53	0.43
43:CK:41:ILE:HG12	43:CK:67:ALA:HB1	2.00	0.43
44:CL:34:TYR:O	44:CL:88:ARG:HA	2.18	0.43
46:CN:63:VAL:C	46:CN:65:TYR:N	2.73	0.43
48:CP:114:ARG:HD3	48:CP:114:ARG:HA	1.68	0.43
51:CS:165:ILE:HD12	51:CS:166:LEU:H	1.83	0.43
52:CT:21:LYS:HD3	52:CT:53:LYS:O	2.19	0.43
61:DJ:13:SER:O	61:DJ:16:GLN:HG2	2.19	0.43
71:p0:55:LYS:HD3	71:p0:57:THR:OG1	2.18	0.43
73:b:38:ARG:HD3	73:b:38:ARG:HA	1.81	0.43
75:d:40:ILE:HD13	75:d:40:ILE:HA	1.93	0.43
77:f:41:THR:HG22	77:f:45:VAL:HG11	2.01	0.43
78:g:114:VAL:HG23	78:g:116:LYS:HE3	2.01	0.43
1:sR:224:C:C2	1:sR:225:A:C8	3.07	0.43
1:sR:845:G:H2'	1:sR:846:G:H8	1.82	0.43
1:sR:1176:G:C6	1:sR:1464:G:C6	3.07	0.43
1:sR:1281:G:OP1	21:d0:78:THR:HG21	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1345:A:H5'	21:d0:53:LYS:CD	2.47	0.43
1:sR:1459:C:H2'	19:c8:138:THR:HB	2.00	0.43
1:sR:1524:A:H5'	20:c9:78:LYS:HE3	2.00	0.43
1:sR:1561:U:H2'	1:sR:1562:G:H8	1.84	0.43
79:Rb:19:TRP:CD1	79:Rb:306:THR:O	2.72	0.43
79:Rb:37:SER:O	79:Rb:68:VAL:HG22	2.19	0.43
79:Rb:42:LEU:HB3	79:Rb:61:PHE:CD1	2.54	0.43
79:Rb:161:LYS:CD	79:Rb:162:ALA:H	2.29	0.43
2:s0:17:LEU:HB3	2:s0:22:THR:CG2	2.49	0.43
2:s0:140:ASN:OD1	4:s2:62:PRO:HD3	2.18	0.43
2:s0:153:SER:O	2:s0:156:VAL:HG22	2.19	0.43
3:s1:32:ILE:HB	3:s1:43:VAL:CG2	2.47	0.43
4:s2:73:LEU:O	4:s2:76:LEU:HD22	2.19	0.43
9:s7:49:ILE:HD12	9:s7:49:ILE:HA	1.67	0.43
10:s8:103:GLN:HA	10:s8:165:LEU:O	2.18	0.43
15:c4:31:THR:HA	15:c4:38:THR:HA	2.00	0.43
16:c5:130:ARG:HB3	16:c5:133:ALA:HB3	2.01	0.43
19:c8:105:VAL:HG13	19:c8:106:GLU:H	1.83	0.43
21:d0:65:ILE:CD1	76:d9:36:LEU:HD11	2.49	0.43
21:d0:109:GLU:HG2	21:d0:110:PRO:HD2	2.01	0.43
24:d3:52:ILE:CG2	24:d3:99:ASN:HA	2.49	0.43
25:d4:52:LYS:C	25:d4:54:ALA:H	2.26	0.43
73:d6:49:ALA:HB1	73:d6:53:LEU:HD23	2.01	0.43
74:d7:72:LYS:HD2	74:d7:72:LYS:C	2.44	0.43
75:d8:8:THR:HG1	75:d8:56:LEU:C	2.26	0.43
1:A:608:U:H5'	1:A:610:G:N7	2.33	0.43
1:A:614:C:C2	1:A:615:A:C8	3.06	0.43
1:A:895:G:H1'	15:P:36:LYS:O	2.19	0.43
1:A:912:U:H4'	1:A:913:G:H2'	2.00	0.43
1:A:973:A:H2'	1:A:974:A:C8	2.52	0.43
1:A:1013:A:H2'	1:A:1014:G:O4'	2.19	0.43
1:A:1167:G:H2'	1:A:1168:U:H6	1.83	0.43
1:A:1247:U:H2'	1:A:1248:C:C6	2.54	0.43
1:A:1490:C:O2'	5:E:4:LEU:HD22	2.19	0.43
4:D:59:HIS:HB2	4:D:61:LEU:CD2	2.49	0.43
4:D:89:GLN:NE2	4:D:94:GLN:HG3	2.33	0.43
4:D:235:LEU:HG	22:W:33:GLN:NE2	2.34	0.43
6:F:139:VAL:O	6:F:146:THR:HA	2.19	0.43
6:F:179:LYS:O	6:F:195:ILE:HD13	2.19	0.43
7:G:63:GLN:NE2	7:G:86:GLN:O	2.52	0.43
11:K:136:VAL:HG23	11:K:137:GLY:N	2.33	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:54:TYR:HB3	12:L:72:GLY:HA3	2.01	0.43
24:Y:87:VAL:HG11	24:Y:92:CYS:O	2.19	0.43
26:DB:85:TYR:CE2	26:DB:129:TRP:CD2	3.07	0.43
26:DB:90:GLU:OE1	26:DB:90:GLU:HA	2.19	0.43
28:DC:53:PHE:HB2	51:CS:176:ARG:HD3	2.01	0.43
28:DC:116:GLY:HA2	28:DC:137:LYS:NZ	2.34	0.43
31:CD:214:GLY:C	31:CD:216:HIS:H	2.26	0.43
32:AE:18:LYS:HE2	35:1:3376:A:O5'	2.19	0.43
33:CE:174:LYS:NZ	35:AR:3315:G:OP1	2.51	0.43
33:CE:261:MET:HG2	49:CQ:64:PHE:HA	2.00	0.43
35:1:60:A:C8	35:1:327:A:C6	3.06	0.43
35:1:278:U:OP2	80:AP:502:OHX:N3	2.52	0.43
35:1:380:U:H2'	35:1:381:U:C6	2.54	0.43
35:1:1120:A:H2'	35:1:1121:U:H6	1.84	0.43
35:1:1141:C:O2'	35:1:1153:A:N3	2.47	0.43
35:1:1600:U:OP2	80:1:4159:OHX:N1	2.52	0.43
35:1:1708:C:H2'	35:1:1709:C:H6	1.84	0.43
35:1:1787:A:H2'	35:1:1788:C:O4'	2.19	0.43
35:1:1823:A:H2'	35:1:1824:U:C6	2.54	0.43
35:1:2186:U:H5"	35:1:2315:G:OP2	2.19	0.43
35:1:2208:A:N1	80:1:4156:OHX:N5	2.67	0.43
35:1:2442:G:H2'	35:1:2443:A:H5'	2.01	0.43
35:1:2874:G:O2'	35:1:2875:U:OP1	2.25	0.43
35:1:2948:C:O2'	33:k:242:THR:HG22	2.19	0.43
35:1:3332:U:H2'	35:1:3333:G:O4'	2.18	0.43
36:3:82:G:C6	36:3:83:U:C4	3.06	0.43
37:4:150:G:OP1	58:8:27:ARG:NH2	2.51	0.43
38:l:151:VAL:HA	38:l:250:TRP:O	2.19	0.43
43:q:128:VAL:HG23	43:q:132:VAL:CG2	2.48	0.43
45:s:30:LEU:HA	45:s:30:LEU:HD12	1.43	0.43
45:s:54:VAL:HG23	45:s:56:THR:H	1.83	0.43
45:s:166:LYS:HD3	45:s:167:TYR:H	1.84	0.43
46:t:109:PHE:O	46:t:113:VAL:HG12	2.19	0.43
52:z:8:LYS:HG3	52:z:22:VAL:HG21	2.01	0.43
52:z:104:ARG:O	52:z:108:LYS:HG3	2.18	0.43
52:z:180:LYS:HA	52:z:183:ALA:HB3	2.01	0.43
54:2:19:PHE:CE2	54:2:20:ARG:HG3	2.54	0.43
55:5:50:LEU:H	55:5:50:LEU:HD12	1.83	0.43
68:AP:35:LEU:CD1	68:AP:36:PHE:H	2.25	0.43
35:AR:665:A:OP1	48:CP:203:ARG:HD2	2.19	0.43
35:AR:794:U:H2'	35:AR:795:G:H8	1.83	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:916:G:H5'	35:AR:917:A:OP1	2.19	0.43
35:AR:1222:G:H8	35:AR:1222:G:OP2	2.01	0.43
35:AR:1229:G:H2'	35:AR:1230:G:H8	1.84	0.43
35:AR:1280:C:H2'	35:AR:1281:G:O4'	2.19	0.43
35:AR:2196:C:OP1	80:AR:4227:OHX:N2	2.52	0.43
35:AR:2268:U:C3'	35:AR:2269:U:H5"	2.48	0.43
35:AR:2561:A:P	35:AR:2561:A:H8	2.42	0.43
35:AR:2696:A:N7	35:AR:2758:A:N6	2.67	0.43
35:AR:2942:C:H6	35:AR:2942:C:O5'	2.02	0.43
35:AR:3102:G:N7	80:AR:3415:OHX:N6	2.67	0.43
36:AS:16:U:H2'	36:AS:17:A:C8	2.54	0.43
36:AS:107:C:H2'	36:AS:108:A:H8	1.84	0.43
37:AT:15:G:OP2	80:AT:203:OHX:N3	2.51	0.43
37:AT:92:A:H2'	37:AT:93:U:O4'	2.19	0.43
39:CG:276:LYS:HG3	39:CG:277:LEU:N	2.34	0.43
43:CK:109:ALA:HB1	43:CK:111:PHE:CD1	2.54	0.43
44:CL:140:THR:HG23	44:CL:141:LYS:O	2.18	0.43
51:CS:57:ILE:HD12	51:CS:57:ILE:N	2.34	0.43
59:DH:58:GLU:HB3	59:DH:63:LYS:CG	2.47	0.43
60:DI:81:CYS:H	60:DI:84:CYS:HB2	1.83	0.43
67:DP:4:LYS:HB2	1:sR:1773:C:OP2	2.19	0.43
68:DQ:78:LYS:HE2	68:DQ:80:ARG:NH1	2.34	0.43
71:p0:72:ASP:OD1	71:p0:72:ASP:N	2.46	0.43
70:sM:44:PRO:O	70:sM:45:SER:C	2.60	0.43
76:e:24:CYS:O	76:e:25:SER:OG	2.30	0.43
79:h:190:ALA:HB3	79:h:192:PHE:HE1	1.84	0.43
79:h:212:ALA:HB1	79:h:243:LEU:HD13	2.00	0.43
1:sR:473:A:H4'	1:sR:768:C:O2	2.19	0.43
1:sR:1391:A:H2'	1:sR:1392:U:H6	1.83	0.43
1:sR:1557:U:O2'	1:sR:1558:U:H2'	2.19	0.43
1:sR:1784:C:H2'	1:sR:1785:U:C6	2.53	0.43
79:Rb:184:ASN:OD1	79:Rb:185:GLN:N	2.52	0.43
3:s1:48:VAL:HG21	3:s1:61:LEU:HD23	2.01	0.43
3:s1:148:ASN:H	3:s1:148:ASN:HD22	1.65	0.43
6:s4:105:VAL:CG2	6:s4:245:LYS:H	2.28	0.43
10:s8:188:GLU:HA	13:c1:13:PHE:CE2	2.53	0.43
12:c0:55:VAL:HA	12:c0:69:THR:H	1.84	0.43
17:c6:72:GLY:HA3	17:c6:76:SER:OG	2.19	0.43
19:c8:14:ILE:O	19:c8:14:ILE:HD12	2.19	0.43
19:c8:23:ASP:HB3	19:c8:26:ILE:HD11	2.01	0.43
21:d0:57:ARG:HG2	21:d0:89:ARG:CZ	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:d3:135:LEU:HD23	24:d3:140:LYS:O	2.18	0.43
1:A:61:A:H8	1:A:269:G:O2'	1.96	0.42
1:A:119:A:H1'	1:A:397:A:C5	2.53	0.42
1:A:234:G:C6	1:A:235:G:H1'	2.54	0.42
1:A:240:U:H5"	80:A:1970:OHX:N1	2.34	0.42
1:A:279:G:N7	1:A:281:G:C8	2.87	0.42
1:A:499:U:H4'	1:A:500:C:OP1	2.19	0.42
1:A:1098:U:O2	23:X:71:LYS:HD2	2.18	0.42
1:A:1589:C:H2'	1:A:1590:G:C8	2.53	0.42
4:D:39:THR:O	4:D:39:THR:OG1	2.37	0.42
9:I:173:TYR:CE1	9:I:179:LYS:HB2	2.44	0.42
10:J:138:ASN:O	10:J:142:LYS:HD2	2.19	0.42
19:T:120:ARG:NE	70:i:61:ILE:HD11	2.34	0.42
24:Y:70:LYS:O	24:Y:86:PHE:HD1	2.02	0.42
24:Y:103:LEU:HD13	24:Y:126:LYS:HD3	2.01	0.42
26:AA:4:PHE:CD2	30:AD:62:LEU:HB3	2.54	0.42
26:AA:83:THR:HG22	60:AH:93:PHE:CZ	2.54	0.42
27:DA:5:SER:HB3	27:DA:8:VAL:HG12	2.01	0.42
32:AE:20:LEU:HD21	32:AE:32:ALA:HB2	2.01	0.42
35:1:407:A:C2	37:4:17:A:H1'	2.54	0.42
35:1:828:A:H2'	35:1:829:U:C6	2.54	0.42
35:1:1186:G:N3	53:0:112:ALA:HB1	2.34	0.42
35:1:1234:G:C2	35:1:1255:C:C2	3.07	0.42
35:1:1264:G:H4'	35:1:1265:U:OP1	2.19	0.42
35:1:1286:A:H2'	35:1:1286:A:OP2	2.19	0.42
35:1:1434:G:OP1	35:1:1437:C:N4	2.50	0.42
35:1:1445:U:H5"	35:1:1446:A:OP2	2.19	0.42
35:1:1641:U:O2'	35:1:1642:A:H3'	2.19	0.42
35:1:1710:C:H2'	35:1:1711:C:C6	2.54	0.42
35:1:2190:U:C4	35:1:2191:U:C4	3.07	0.42
35:1:2347:U:H2'	35:1:2348:A:O4'	2.19	0.42
35:1:2726:C:H5	80:1:4131:OHX:N3	2.16	0.42
35:1:2794:G:O2'	35:1:2795:U:OP2	2.31	0.42
35:1:3010:U:O4	80:1:4130:OHX:N5	2.52	0.42
35:1:3134:A:OP1	80:1:4130:OHX:N3	2.52	0.42
35:1:3366:G:H2'	35:1:3367:C:C6	2.54	0.42
35:1:3371:G:H2'	35:1:3372:A:H8	1.84	0.42
31:j:101:VAL:HG23	31:j:164:GLY:O	2.19	0.42
39:m:186:GLU:OE2	39:m:186:GLU:N	2.26	0.42
41:o:88:ARG:HA	41:o:134:VAL:HG12	2.01	0.42
42:p:34:PHE:CZ	42:p:42:PRO:HG3	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:r:35:ASP:O	44:r:36:LEU:HD23	2.19	0.42
48:v:96:ARG:NH1	48:v:104:GLU:OE2	2.51	0.42
48:v:190:THR:HG23	48:v:193:ARG:NH2	2.34	0.42
49:w:142:SER:HB3	49:w:147:TRP:HB2	2.00	0.42
51:y:26:LEU:HA	51:y:29:LEU:HD12	2.01	0.42
51:y:110:ALA:O	51:y:114:ILE:HG13	2.19	0.42
56:6:32:ARG:HD3	56:6:32:ARG:HA	1.87	0.42
64:AL:66:ILE:O	64:AL:69:LEU:HD23	2.19	0.42
65:AM:30:ARG:HE	65:AM:30:ARG:HB2	1.48	0.42
35:AR:437:G:O6	35:AR:621:A:N6	2.52	0.42
35:AR:573:C:H2'	35:AR:574:U:C6	2.54	0.42
35:AR:1010:G:H1'	44:CL:195:ALA:HB2	2.01	0.42
35:AR:1688:U:H2'	35:AR:1689:U:C6	2.54	0.42
35:AR:3155:U:H3'	35:AR:3156:U:H4'	2.00	0.42
35:AR:3165:A:C2	35:AR:3286:G:C6	3.07	0.42
35:AR:3170:A:OP2	59:DH:56:SER:OG	2.26	0.42
35:AR:3225:C:C2	35:AR:3226:A:C8	3.07	0.42
36:AS:97:A:H2'	36:AS:98:C:C6	2.54	0.42
38:CF:289:ILE:O	38:CF:292:SER:HB3	2.19	0.42
44:CL:23:ASN:C	44:CL:24:ARG:HD3	2.44	0.42
45:CM:30:LEU:HD22	45:CM:64:LYS:O	2.19	0.42
45:CM:131:MET:O	45:CM:154:THR:HG21	2.19	0.42
45:CM:164:LYS:HE3	45:CM:171:VAL:HG22	2.00	0.42
46:CN:126:PHE:N	46:CN:126:PHE:HD1	2.16	0.42
48:CP:99:ARG:HB2	48:CP:130:PHE:CE1	2.54	0.42
55:CW:97:SER:HB2	55:CW:103:TYR:CE1	2.54	0.42
58:CZ:82:LEU:HB2	58:CZ:124:VAL:CG2	2.49	0.42
60:DI:98:GLN:OE1	60:DI:102:LYS:HB2	2.19	0.42
71:p0:8:LYS:CG	71:p0:58:MET:HE1	2.49	0.42
72:a:53:GLU:O	72:a:57:TYR:HE1	1.98	0.42
79:h:205:SER:HB3	79:h:210:LEU:HB2	2.01	0.42
1:sR:151:G:N2	1:sR:163:G:N2	2.66	0.42
1:sR:472:U:H2'	1:sR:473:A:H8	1.83	0.42
1:sR:496:G:N3	1:sR:496:G:H2'	2.34	0.42
1:sR:585:A:H2'	1:sR:586:G:C8	2.54	0.42
1:sR:681:U:H4'	1:sR:682:C:OP1	2.18	0.42
1:sR:1164:G:H2'	1:sR:1165:G:H8	1.82	0.42
1:sR:1523:G:O2'	1:sR:1524:A:OP1	2.36	0.42
79:Rb:8:VAL:HG12	79:Rb:9:LEU:N	2.33	0.42
79:Rb:22:SER:O	79:Rb:23:LEU:HD23	2.19	0.42
5:s3:40:ARG:NE	21:d0:110:PRO:HD3	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:s3:189:MET:HG3	5:s3:190:ARG:O	2.19	0.42
6:s4:180:LEU:HD12	6:s4:193:GLY:O	2.19	0.42
8:s6:61:PHE:H	8:s6:61:PHE:HD1	1.67	0.42
10:s8:97:THR:H	10:s8:100:ALA:HB2	1.84	0.42
15:c4:43:THR:H	15:c4:46:MET:HE2	1.83	0.42
15:c4:80:HIS:ND1	15:c4:114:ARG:HB2	2.34	0.42
16:c5:100:LYS:O	16:c5:100:LYS:HD2	2.19	0.42
19:c8:13:HIS:C	19:c8:14:ILE:HG13	2.43	0.42
19:c8:62:THR:OG1	19:c8:64:GLU:HG2	2.18	0.42
21:d0:55:PRO:CA	21:d0:91:ILE:HG22	2.47	0.42
22:d1:44:ARG:O	22:d1:44:ARG:HG3	2.18	0.42
75:d8:25:VAL:CG1	75:d8:43:ASN:HB2	2.49	0.42
1:A:223:U:H2'	1:A:224:C:C5	2.53	0.42
1:A:962:C:OP2	14:O:70:LYS:HD2	2.20	0.42
1:A:1069:A:H2'	1:A:1070:C:C6	2.53	0.42
1:A:1071:U:H2'	1:A:1072:C:C6	2.54	0.42
2:B:114:SER:O	2:B:116:LYS:HD2	2.19	0.42
4:D:143:TYR:CE2	4:D:148:LEU:O	2.71	0.42
6:F:102:VAL:HG13	6:F:182:TYR:CE2	2.54	0.42
6:F:222:LEU:O	6:F:225:VAL:HG12	2.19	0.42
7:G:37:GLN:O	7:G:39:GLU:O	2.36	0.42
9:I:165:LYS:O	9:I:166:LEU:C	2.62	0.42
9:I:170:GLN:HE21	9:I:170:GLN:HB2	1.15	0.42
12:L:80:LEU:HB3	12:L:82:LEU:HG	2.02	0.42
15:P:101:ALA:O	15:P:105:LEU:HG	2.19	0.42
16:Q:85:ILE:HA	16:Q:89:MET:CE	2.49	0.42
20:U:103:LYS:HE2	20:U:103:LYS:HB3	1.62	0.42
22:W:32:VAL:CG2	22:W:55:LEU:HB2	2.49	0.42
22:W:60:ARG:HA	22:W:65:SER:HB2	2.01	0.42
23:X:71:LYS:HB3	23:X:130:TYR:CE1	2.54	0.42
25:Z:54:ALA:O	25:Z:75:VAL:HA	2.19	0.42
26:DB:23:VAL:CG1	26:DB:24:VAL:N	2.82	0.42
33:CE:24:SER:O	33:CE:25:ILE:C	2.62	0.42
33:CE:332:ARG:HD3	33:CE:332:ARG:H	1.84	0.42
34:AF:72:LYS:O	34:AF:92:TYR:HA	2.19	0.42
35:1:755:A:C5	35:1:756:U:C5	3.07	0.42
35:1:807:A:C2	35:1:808:A:C8	3.07	0.42
35:1:1083:G:H2'	35:1:1084:A:H8	1.82	0.42
35:1:1387:G:H1'	35:1:1421:G:N2	2.33	0.42
35:1:1535:A:OP1	80:1:3408:OHX:N4	2.53	0.42
35:1:1562:C:O2'	35:1:1563:C:P	2.77	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:1637:A:H2'	35:1:1638:A:C8	2.54	0.42
35:1:1802:C:H2'	35:1:1803:C:H6	1.84	0.42
35:1:2573:G:O6	80:1:3500:OHX:N1	2.52	0.42
35:1:2806:U:O2'	35:1:2807:U:H5'	2.20	0.42
35:1:3018:C:C4	35:1:3019:U:C4	3.07	0.42
35:1:3232:G:C6	35:1:3256:G:C6	3.08	0.42
35:1:3237:U:H2'	35:1:3238:G:C8	2.54	0.42
35:1:3255:U:H2'	35:1:3256:G:C8	2.54	0.42
35:1:3371:G:H2'	35:1:3372:A:C8	2.54	0.42
35:1:3374:U:O4	80:1:3519:OHX:N3	2.52	0.42
37:4:118:C:H2'	37:4:119:C:C6	2.54	0.42
31:j:29:LEU:HG	31:j:115:ASN:ND2	2.34	0.42
33:k:136:LYS:HA	33:k:136:LYS:HD2	1.82	0.42
33:k:346:THR:O	33:k:350:ALA:HB3	2.20	0.42
38:l:180:LYS:HE2	38:l:180:LYS:HB3	1.60	0.42
39:m:106:ALA:O	39:m:110:LEU:HG	2.18	0.42
39:m:126:GLU:HA	39:m:196:ARG:HD2	2.01	0.42
43:q:22:SER:H	47:u:8:LYS:CE	2.31	0.42
47:u:21:VAL:HG12	47:u:65:LEU:HD23	2.01	0.42
48:v:9:GLU:CG	62:AJ:44:VAL:HG21	2.42	0.42
64:AL:43:PHE:HE1	64:AL:56:ILE:HG22	1.84	0.42
69:AQ:38:ASP:HA	69:AQ:45:LYS:HA	2.01	0.42
35:AR:18:G:O6	80:AT:211:OHX:N3	2.52	0.42
35:AR:170:G:H5"	61:DJ:109:ILE:HG13	2.01	0.42
35:AR:618:C:O2'	35:AR:620:U:O2	2.32	0.42
35:AR:685:G:OP1	46:CN:35:ARG:NH1	2.46	0.42
35:AR:767:U:H4'	46:CN:186:ARG:HH12	1.84	0.42
35:AR:917:A:OP2	80:AR:4225:OHX:N1	2.52	0.42
35:AR:1361:U:H2'	35:AR:1362:G:C8	2.54	0.42
35:AR:1449:A:H2'	35:AR:1450:G:O4'	2.18	0.42
35:AR:1624:G:O6	80:AR:3553:OHX:N5	2.51	0.42
35:AR:1836:C:H41	65:DN:3:ALA:HB2	1.84	0.42
35:AR:2222:A:H2'	35:AR:2223:A:C8	2.53	0.42
35:AR:2660:G:H5"	35:AR:2750:U:O2'	2.19	0.42
35:AR:2861:U:H2'	35:AR:2862:U:C6	2.54	0.42
35:AR:3180:A:C4	49:CQ:114:LYS:HA	2.54	0.42
35:AR:3296:A:H2'	35:AR:3297:U:H6	1.85	0.42
37:AT:56:G:H2'	37:AT:57:C:H6	1.83	0.42
38:CF:264:SER:OG	38:CF:267:VAL:HG12	2.17	0.42
38:CF:291:ASN:HA	38:CF:296:GLN:HE21	1.84	0.42
39:CG:22:ARG:HD3	39:CG:28:THR:OG1	2.18	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:CK:86:TYR:CD2	43:CK:151:VAL:HG13	2.55	0.42
47:CO:128:ARG:HE	47:CO:128:ARG:HB3	1.76	0.42
50:CR:29:THR:HG22	50:CR:87:SER:CB	2.48	0.42
53:CU:27:MET:HE2	53:CU:45:LEU:CD2	2.50	0.42
54:CV:120:LYS:O	54:CV:120:LYS:HG3	2.19	0.42
55:CW:83:TYR:O	55:CW:86:LYS:N	2.47	0.42
56:CX:25:CYS:HB3	56:CX:31:ALA:O	2.18	0.42
56:CX:130:ALA:HA	56:CX:133:SER:OG	2.19	0.42
59:DH:37:THR:OG1	59:DH:39:GLN:OE1	2.37	0.42
61:DJ:50:SER:O	61:DJ:54:VAL:HG13	2.19	0.42
72:a:43:ASP:HB3	72:a:46:LYS:HB3	2.01	0.42
1:sR:385:A:H2'	1:sR:386:G:C8	2.53	0.42
1:sR:834:G:H3'	1:sR:835:U:C5	2.54	0.42
1:sR:987:G:O6	80:sR:1975:OHX:N1	2.52	0.42
1:sR:1018:U:C2	1:sR:1019:A:N7	2.88	0.42
1:sR:1097:U:H6	4:s2:168:ARG:HD3	1.83	0.42
1:sR:1388:A:H5"	18:c7:48:ASN:HD22	1.85	0.42
1:sR:1623:C:H2'	1:sR:1624:C:H6	1.84	0.42
1:sR:1674:C:H2'	1:sR:1675:C:C6	2.54	0.42
1:sR:1780:G:OP2	80:sR:1937:OHX:N3	2.52	0.42
79:Rb:102:ARG:HG2	79:Rb:102:ARG:NH1	2.33	0.42
79:Rb:108:SER:HB2	79:Rb:128:ASP:HB3	2.00	0.42
79:Rb:267:PRO:HD2	79:Rb:269:TYR:CE1	2.51	0.42
2:s0:64:ILE:HG23	2:s0:181:VAL:HG13	2.01	0.42
4:s2:111:VAL:O	4:s2:136:VAL:HA	2.18	0.42
5:s3:190:ARG:NH2	5:s3:195:SER:HA	2.34	0.42
6:s4:77:ARG:HD2	6:s4:82:TYR:CE2	2.53	0.42
6:s4:85:GLY:O	6:s4:101:LEU:HB2	2.19	0.42
6:s4:164:LEU:HD23	6:s4:165:ALA:N	2.34	0.42
7:s5:25:LEU:CD2	7:s5:29:ILE:HD11	2.42	0.42
9:s7:130:VAL:O	9:s7:133:THR:OG1	2.36	0.42
23:d2:55:ASP:OD1	23:d2:59:GLY:N	2.39	0.42
25:d4:62:THR:HA	25:d4:69:SER:HA	2.00	0.42
75:d8:25:VAL:HG11	75:d8:43:ASN:HB2	2.01	0.42
1:A:21:U:O3'	11:K:18:PRO:HG3	2.19	0.42
1:A:121:U:O2	6:F:34:GLY:HA2	2.19	0.42
1:A:604:A:H2'	1:A:605:A:O4'	2.20	0.42
1:A:874:C:OP1	80:A:1906:OHX:N2	2.52	0.42
1:A:933:A:H2'	1:A:935:U:C5	2.54	0.42
1:A:1332:C:OP2	18:S:45:ARG:NH2	2.51	0.42
1:A:1368:G:H2'	1:A:1369:U:O4'	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1550:A:OP2	16:Q:42:ARG:NH2	2.53	0.42
1:A:1610:G:P	17:R:75:VAL:HG11	2.59	0.42
1:A:1739:C:H2'	1:A:1740:A:H8	1.83	0.42
1:A:1795:U:H4'	73:b:84:VAL:CG2	2.48	0.42
7:G:37:GLN:HE21	17:R:57:LEU:CD2	2.31	0.42
7:G:54:LYS:HB3	7:G:54:LYS:HE2	1.57	0.42
7:G:57:SER:CB	7:G:167:ARG:HH12	2.33	0.42
7:G:121:ILE:CG2	7:G:132:VAL:HG21	2.49	0.42
8:H:28:PHE:N	8:H:28:PHE:CD1	2.86	0.42
9:I:71:HIS:CG	9:I:131:PHE:HE2	2.37	0.42
12:L:25:LYS:HG3	12:L:64:TYR:HE2	1.85	0.42
12:L:74:GLU:H	12:L:74:GLU:CD	2.27	0.42
16:Q:15:HIS:ND1	16:Q:15:HIS:N	2.67	0.42
16:Q:75:PRO:HA	16:Q:93:VAL:CG2	2.49	0.42
17:R:26:LYS:CD	17:R:26:LYS:H	2.31	0.42
19:T:57:ARG:HH11	19:T:57:ARG:HG2	1.83	0.42
20:U:111:ILE:HG22	20:U:113:ILE:HD13	2.01	0.42
21:V:18:GLN:N	21:V:18:GLN:OE1	2.53	0.42
23:X:7:LEU:HD23	23:X:7:LEU:C	2.45	0.42
23:X:23:ARG:C	23:X:24:GLN:HG3	2.44	0.42
24:Y:93:LEU:O	24:Y:96:VAL:HG22	2.19	0.42
24:Y:120:VAL:O	24:Y:120:VAL:HG23	2.18	0.42
26:AA:84:ARG:HG2	26:AA:85:TYR:CD1	2.54	0.42
26:AA:124:ALA:O	26:AA:126:LYS:HG3	2.20	0.42
28:AB:28:HIS:CD2	28:AB:32:ARG:HG3	2.54	0.42
31:CD:49:VAL:HG22	31:CD:50:HIS:N	2.35	0.42
31:CD:243:THR:OG1	35:AR:2244:A:H5"	2.20	0.42
35:1:20:A:H2'	35:1:21:G:C8	2.54	0.42
35:1:277:G:H2'	35:1:278:U:H6	1.84	0.42
35:1:768:C:O3'	46:t:179:PHE:HE2	2.02	0.42
35:1:1182:A:H2'	35:1:1183:C:H6	1.84	0.42
35:1:1309:U:OP1	80:1:3582:OHX:N5	2.52	0.42
35:1:2501:U:P	35:1:2501:U:H6	2.41	0.42
35:1:2559:U:OP1	35:1:2561:A:H5'	2.19	0.42
35:1:2694:A:O2'	35:1:2695:A:H5'	2.20	0.42
35:1:3252:G:H2'	35:1:3253:G:H8	1.84	0.42
37:4:75:G:H2'	37:4:76:C:C6	2.54	0.42
31:j:57:PRO:HD2	31:j:170:ALA:HB3	2.02	0.42
33:k:19:ARG:O	33:k:232:ARG:NH2	2.52	0.42
33:k:230:THR:HA	33:k:235:THR:HG23	2.00	0.42
38:l:3:ARG:HA	38:l:3:ARG:HD2	1.78	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:m:23:ARG:HA	39:m:23:ARG:HD2	1.87	0.42
39:m:186:GLU:HG2	39:m:187:THR:H	1.84	0.42
45:s:19:LEU:HD23	45:s:125:MET:CE	2.50	0.42
46:t:124:ILE:O	46:t:124:ILE:HG13	2.19	0.42
48:v:53:TYR:O	48:v:54:LYS:HD2	2.19	0.42
49:w:50:ASN:ND2	49:w:136:THR:OG1	2.45	0.42
51:y:148:GLU:OE2	51:y:151:ARG:NH1	2.52	0.42
55:5:49:ASN:O	55:5:50:LEU:C	2.59	0.42
27:9:28:ARG:HB2	27:9:75:ARG:CZ	2.49	0.42
68:AP:95:GLY:O	68:AP:96:GLU:HB2	2.20	0.42
70:i:84:LYS:HG3	70:i:85:SER:H	1.84	0.42
35:AR:167:U:H2'	35:AR:168:U:C6	2.53	0.42
35:AR:250:U:OP2	35:AR:251:G:H5"	2.18	0.42
35:AR:576:C:H2'	35:AR:577:C:H6	1.84	0.42
35:AR:679:U:H2'	35:AR:680:G:C8	2.54	0.42
35:AR:1263:A:H2'	35:AR:1263:A:N3	2.33	0.42
35:AR:1570:U:O2	35:AR:1571:A:H1'	2.19	0.42
35:AR:1597:C:H5'	35:AR:1696:A:H1'	2.01	0.42
35:AR:1810:A:H2'	35:AR:1811:G:C8	2.55	0.42
35:AR:2407:C:C2	35:AR:2408:U:C5	3.07	0.42
35:AR:3270:U:C2	40:CH:46:ARG:HD2	2.54	0.42
37:AT:2:A:H2'	37:AT:3:A:C8	2.54	0.42
37:AT:5:U:H2'	37:AT:6:U:H6	1.84	0.42
39:CG:31:TYR:O	39:CG:35:ARG:HD2	2.19	0.42
42:CJ:116:VAL:HG23	42:CJ:121:SER:O	2.20	0.42
46:CN:132:ALA:C	46:CN:134:GLU:N	2.77	0.42
49:CQ:98:ALA:HA	49:CQ:101:ARG:HH11	1.85	0.42
56:CX:13:ILE:HG13	56:CX:85:TRP:CG	2.54	0.42
56:CX:32:ARG:HD2	56:CX:32:ARG:C	2.44	0.42
66:DO:126:LYS:N	66:DO:126:LYS:HD2	2.34	0.42
68:DQ:28:TYR:CD1	68:DQ:29:LYS:N	2.87	0.42
71:p0:15:LEU:HG	71:p0:19:LEU:HD11	2.01	0.42
71:p0:16:ARG:NH1	71:p0:69:ASP:OD2	2.52	0.42
71:p0:22:TYR:CD2	71:p0:88:PHE:HB2	2.54	0.42
79:h:29:GLN:C	79:h:31:ASN:H	2.27	0.42
79:h:59:ARG:HE	79:h:59:ARG:HB3	1.50	0.42
1:sR:217:A:H61	1:sR:845:G:H1'	1.84	0.42
1:sR:244:A:C2'	1:sR:245:U:H5'	2.49	0.42
1:sR:782:U:C2	25:d4:48:TYR:HE1	2.37	0.42
1:sR:1066:C:O3'	3:s1:149:GLN:HG3	2.20	0.42
1:sR:1311:U:OP2	80:sR:2017:OHX:N1	2.52	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1344:A:H2'	1:sR:1345:A:C8	2.53	0.42
1:sR:1439:C:H2'	1:sR:1440:C:C6	2.54	0.42
1:sR:1613:U:H2'	1:sR:1614:A:H5'	2.02	0.42
79:Rb:44:SER:O	79:Rb:58:VAL:HG22	2.20	0.42
2:s0:80:THR:O	2:s0:83:GLN:OE1	2.36	0.42
2:s0:163:ASN:HB3	2:s0:169:SER:OG	2.19	0.42
3:s1:81:PHE:O	3:s1:106:THR:HG23	2.19	0.42
3:s1:131:ASP:CG	3:s1:180:THR:OG1	2.62	0.42
4:s2:142:GLY:C	4:s2:151:PRO:HB2	2.45	0.42
5:s3:46:THR:O	5:s3:84:ILE:HD12	2.20	0.42
5:s3:125:TYR:O	5:s3:129:SER:OG	2.21	0.42
6:s4:46:VAL:O	6:s4:50:ASN:N	2.47	0.42
6:s4:253:ASP:OD1	6:s4:254:ARG:N	2.53	0.42
10:s8:143:TRP:CD1	10:s8:143:TRP:H	2.37	0.42
12:c0:35:ILE:HD11	12:c0:42:VAL:HG11	2.01	0.42
13:c1:111:VAL:HA	13:c1:139:VAL:CG1	2.49	0.42
17:c6:28:LEU:O	17:c6:65:ILE:N	2.44	0.42
21:d0:65:ILE:HD11	76:d9:36:LEU:HD11	2.01	0.42
24:d3:86:PHE:HB2	24:d3:120:VAL:HG11	2.01	0.42
24:d3:102:VAL:CG1	24:d3:127:VAL:HG23	2.49	0.42
72:d5:48:ASP:O	72:d5:52:LYS:HG2	2.19	0.42
74:d7:31:TYR:CE1	74:d7:48:SER:HB3	2.54	0.42
1:A:73:U:O2'	1:A:74:U:O4'	2.36	0.42
1:A:93:A:O2'	6:F:4:GLY:HA3	2.18	0.42
1:A:260:U:H3'	1:A:261:U:H5'	2.02	0.42
1:A:473:A:H4'	1:A:768:C:O2	2.20	0.42
1:A:688:G:N7	80:A:1975:OHX:N5	2.68	0.42
1:A:1102:G:OP1	23:X:76:SER:HB2	2.20	0.42
1:A:1298:U:O3'	4:D:212:LYS:NZ	2.53	0.42
1:A:1318:G:O6	80:S:201:OHX:N4	2.53	0.42
1:A:1438:G:H2'	1:A:1439:C:C6	2.54	0.42
1:A:1553:G:N2	1:A:1555:A:H3'	2.34	0.42
1:A:1654:G:O2'	1:A:1746:A:N6	2.49	0.42
2:B:17:LEU:HB3	2:B:22:THR:HG21	2.01	0.42
2:B:83:GLN:HA	2:B:86:VAL:CG1	2.47	0.42
2:B:177:LEU:O	2:B:181:VAL:HG12	2.19	0.42
3:C:103:MET:HE2	3:C:103:MET:HB2	1.84	0.42
5:E:5:ILE:HG22	5:E:6:SER:N	2.35	0.42
5:E:42:THR:C	5:E:44:THR:H	2.28	0.42
5:E:108:LYS:HE2	5:E:113:LEU:HD22	2.01	0.42
14:O:55:ARG:NH2	74:c:51:GLN:NE2	2.66	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:Q:101:ALA:O	16:Q:102:PHE:C	2.62	0.42
17:R:40:GLU:HG3	17:R:45:ARG:NH2	2.34	0.42
21:V:20:ILE:CG1	21:V:95:ALA:O	2.67	0.42
21:V:105:GLN:O	21:V:107:THR:N	2.53	0.42
24:Y:88:PRO:O	24:Y:89:ASN:HB2	2.19	0.42
33:CE:5:LYS:HE3	33:CE:5:LYS:HB2	1.77	0.42
33:CE:119:TYR:HE1	35:AR:3295:A:H5'	1.84	0.42
34:AF:3:SER:HB3	34:AF:71:HIS:CD2	2.54	0.42
35:1:414:U:H2'	35:1:415:G:H8	1.84	0.42
35:1:649:A:OP2	35:1:2868:U:O2'	2.37	0.42
35:1:698:U:H2'	35:1:699:A:O4'	2.19	0.42
35:1:708:G:N2	35:1:711:A:OP2	2.49	0.42
35:1:818:C:H2'	35:1:819:U:O4'	2.20	0.42
35:1:1020:G:OP1	70:i:49:LYS:HD3	2.19	0.42
35:1:1034:U:H2'	35:1:1035:G:O4'	2.20	0.42
35:1:1094:U:H1'	35:1:1096:U:H2'	2.02	0.42
35:1:1224:C:C2	35:1:1225:A:C8	3.07	0.42
35:1:1544:G:H5'	48:v:67:ARG:HD2	2.02	0.42
35:1:2160:G:C2	35:1:2161:G:C5	3.07	0.42
35:1:2548:C:P	31:j:93:LYS:NZ	2.93	0.42
35:1:2608:G:OP1	31:j:2:GLY:HA3	2.19	0.42
35:1:2943:G:OP2	33:k:2:SER:HB3	2.19	0.42
35:1:3082:C:H2'	35:1:3083:G:H8	1.84	0.42
35:1:3299:A:C5	35:1:3300:U:C5	3.07	0.42
31:j:102:LEU:HD13	31:j:166:ILE:HD13	2.01	0.42
33:k:256:HIS:HA	33:k:257:PRO:C	2.45	0.42
38:l:23:PRO:HD2	38:l:26:PHE:HD2	1.84	0.42
38:l:145:ILE:O	80:l:403:OHX:N2	2.52	0.42
39:m:80:SER:O	39:m:83:LEU:HD23	2.18	0.42
39:m:156:GLY:HA2	39:m:181:PRO:CD	2.45	0.42
40:n:82:ARG:O	59:AG:104:PRO:HA	2.19	0.42
45:s:141:ARG:O	45:s:145:LYS:HE2	2.19	0.42
46:t:93:ILE:O	46:t:93:ILE:CG2	2.68	0.42
49:w:134:LYS:HD3	49:w:135:TYR:N	2.29	0.42
50:x:26:PHE:HE1	50:x:120:ASN:HA	1.84	0.42
55:5:22:PRO:HA	55:5:107:PHE:HZ	1.81	0.42
57:7:56:ARG:HB3	57:7:61:LYS:HB2	2.02	0.42
58:8:135:ILE:O	58:8:139:ILE:HG22	2.20	0.42
27:9:3:LYS:HG3	27:9:8:VAL:CG1	2.47	0.42
65:AM:3:ALA:H	65:AM:5:LYS:HZ3	1.66	0.42
68:AP:25:VAL:CG1	68:AP:70:LEU:HD22	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:286:U:H2'	35:AR:287:G:C8	2.54	0.42
35:AR:374:A:H4'	35:AR:375:A:OP1	2.19	0.42
35:AR:426:G:H2'	35:AR:427:C:H6	1.82	0.42
35:AR:884:A:OP1	63:DL:5:THR:OG1	2.37	0.42
35:AR:1908:A:H8	35:AR:1908:A:O5'	2.02	0.42
35:AR:2152:A:H1'	35:AR:2243:A:N3	2.34	0.42
35:AR:2918:G:C2	35:AR:2919:A:N7	2.88	0.42
35:AR:3163:A:C2'	35:AR:3164:C:H5'	2.49	0.42
38:CF:7:THR:HA	38:CF:19:ALA:HA	2.01	0.42
39:CG:40:HIS:HB3	39:CG:43:LYS:HE2	2.00	0.42
40:CH:38:THR:HA	40:CH:90:LYS:HG3	2.01	0.42
41:CI:188:ILE:HA	41:CI:195:PHE:CE1	2.54	0.42
43:CK:181:VAL:HB	66:DO:89:TYR:OH	2.19	0.42
46:CN:23:LYS:HA	46:CN:23:LYS:HD2	1.91	0.42
50:CR:52:LEU:HD23	50:CR:52:LEU:HA	1.80	0.42
54:CV:38:ASP:O	54:CV:64:VAL:HG23	2.19	0.42
56:CX:24:ASN:O	56:CX:99:ALA:HA	2.19	0.42
70:sM:23:LYS:HG3	70:sM:24:GLU:H	1.84	0.42
72:a:67:ASP:C	72:a:68:ARG:HD3	2.44	0.42
74:c:23:THR:OG1	74:c:25:VAL:O	2.35	0.42
1:sR:420:A:H2'	1:sR:421:A:O4'	2.19	0.42
1:sR:448:C:H2'	1:sR:449:C:C6	2.55	0.42
1:sR:533:U:OP2	11:s9:132:ARG:NH2	2.53	0.42
1:sR:1230:A:H8	1:sR:1258:U:C6	2.37	0.42
1:sR:1283:U:OP2	80:sR:1991:OHX:N1	2.53	0.42
1:sR:1620:C:H2'	1:sR:1621:U:H6	1.84	0.42
1:sR:1685:G:H1	1:sR:1716:C:N4	2.17	0.42
79:Rb:252:LEU:HD23	79:Rb:253:ALA:N	2.35	0.42
5:s3:105:MET:HG3	5:s3:109:LEU:HG	2.01	0.42
5:s3:106:LYS:O	5:s3:110:LEU:HG	2.18	0.42
7:s5:61:TYR:CD2	7:s5:164:PRO:HB2	2.54	0.42
7:s5:183:ALA:HA	7:s5:186:ASN:HB3	2.02	0.42
10:s8:123:LYS:HB3	10:s8:123:LYS:HE2	1.91	0.42
14:c3:91:LEU:HD23	14:c3:91:LEU:HA	1.88	0.42
14:c3:140:LYS:O	14:c3:141:TYR:C	2.60	0.42
17:c6:40:GLU:C	17:c6:42:GLU:N	2.72	0.42
20:c9:42:GLY:N	20:c9:94:ILE:HD11	2.34	0.42
73:d6:96:ALA:HA	73:d6:97:PRO:HD3	1.92	0.42
1:A:5:U:OP2	4:D:204:THR:OG1	2.36	0.42
1:A:142:G:N7	8:H:177:ARG:NH1	2.68	0.42
1:A:521:A:H4'	25:Z:36:SER:HB2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:702:G:O6	1:A:737:A:C6	2.70	0.42
1:A:953:G:H5'	14:O:114:ARG:CD	2.38	0.42
1:A:1174:C:H2'	1:A:1175:U:O4'	2.19	0.42
1:A:1338:C:H1'	1:A:1410:A:C4	2.54	0.42
6:F:191:ARG:NH1	6:F:218:PHE:HB3	2.35	0.42
8:H:220:LYS:O	8:H:223:LYS:HG3	2.19	0.42
15:P:32:ASP:O	15:P:35:GLY:N	2.48	0.42
16:Q:52:LYS:HB3	16:Q:53:PRO:HD3	2.00	0.42
19:T:54:LEU:HD23	19:T:54:LEU:N	2.34	0.42
20:U:25:GLN:HE22	20:U:27:LYS:C	2.26	0.42
20:U:129:GLN:NE2	20:U:132:LEU:HD11	2.35	0.42
24:Y:95:PHE:O	24:Y:127:VAL:HG21	2.20	0.42
25:Z:25:VAL:HG21	25:Z:60:PHE:CE1	2.54	0.42
28:DC:117:ARG:HD3	28:DC:117:ARG:HA	1.79	0.42
31:CD:101:VAL:C	31:CD:102:LEU:HD12	2.44	0.42
32:AE:10:ARG:CZ	35:1:3386:G:H5'	2.49	0.42
35:1:44:U:H5"	48:v:85:THR:HG22	2.01	0.42
35:1:679:U:H2'	35:1:680:G:C8	2.54	0.42
35:1:802:C:H2'	35:1:803:C:C6	2.54	0.42
35:1:1673:G:OP2	80:1:4137:OHX:N2	2.52	0.42
35:1:2345:A:H2'	35:1:2346:C:C6	2.54	0.42
35:1:2525:G:OP2	31:j:37:ARG:NH2	2.52	0.42
35:1:2536:A:H2'	35:1:2537:U:C6	2.54	0.42
35:1:2766:U:O4	80:1:4181:OHX:N2	2.52	0.42
35:1:3060:C:H1'	35:1:3332:U:H1'	2.00	0.42
35:1:3286:G:H5'	35:1:3287:U:OP2	2.20	0.42
35:1:3369:G:O6	33:k:380:MET:HG2	2.19	0.42
31:j:42:ARG:HD2	31:j:87:PHE:CD1	2.54	0.42
44:r:178:ARG:HB2	44:r:179:PRO:HD3	2.00	0.42
47:u:71:ALA:O	47:u:84:LYS:HD2	2.19	0.42
51:y:71:LEU:HA	51:y:71:LEU:HD23	1.82	0.42
58:8:68:THR:O	58:8:68:THR:OG1	2.28	0.42
35:AR:188:U:H2'	35:AR:223:U:O2'	2.19	0.42
35:AR:189:G:C6	35:AR:206:G:C6	3.07	0.42
35:AR:674:G:O2'	38:CF:116:ASN:HB3	2.20	0.42
35:AR:785:G:OP2	51:CS:66:ARG:NH1	2.51	0.42
35:AR:1238:C:H2'	35:AR:1239:C:H6	1.84	0.42
35:AR:1239:C:H42	35:AR:1249:G:N2	2.14	0.42
35:AR:1525:G:H5'	35:AR:1830:G:OP2	2.20	0.42
35:AR:1738:C:H1'	60:DI:52:GLN:HB3	2.02	0.42
35:AR:1916:U:H2'	35:AR:1917:C:H6	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:2502:A:N3	35:AR:2502:A:H2'	2.34	0.42
35:AR:2736:A:H4'	54:CV:71:SER:OG	2.19	0.42
35:AR:3195:U:O2'	35:AR:3196:U:H5'	2.19	0.42
35:AR:3393:U:H2'	35:AR:3394:U:H6	1.85	0.42
38:CF:23:PRO:O	38:CF:25:VAL:HG23	2.19	0.42
42:CJ:109:LEU:HD23	42:CJ:109:LEU:HA	1.68	0.42
43:CK:138:THR:O	43:CK:139:ASN:CG	2.62	0.42
45:CM:20:ASN:OD1	45:CM:21:ILE:N	2.52	0.42
58:CZ:80:ASN:ND2	58:CZ:126:LEU:O	2.53	0.42
61:DJ:73:LYS:HD3	61:DJ:73:LYS:HA	1.87	0.42
64:DM:41:THR:HG21	64:DM:62:ALA:HB2	2.02	0.42
73:b:73:TYR:CB	73:b:78:ALA:HB2	2.49	0.42
79:h:23:LEU:HG	79:h:291:SER:HB2	2.01	0.42
79:h:69:GLN:N	79:h:83:ALA:O	2.41	0.42
79:h:89:LEU:O	79:h:102:ARG:HA	2.19	0.42
79:h:153:GLN:NE2	79:h:201:THR:HA	2.34	0.42
1:sR:223:U:H3	1:sR:838:G:H1	1.66	0.42
1:sR:613:G:H4'	1:sR:614:C:OP1	2.19	0.42
1:sR:821:U:H5'	1:sR:821:U:H6	1.84	0.42
3:s1:38:PHE:CG	3:s1:73:LEU:HD23	2.55	0.42
4:s2:228:ASN:ND2	22:d1:1:MET:HB2	2.34	0.42
5:s3:78:LYS:HD3	5:s3:78:LYS:HA	1.74	0.42
5:s3:105:MET:HE1	5:s3:136:VAL:HG11	2.01	0.42
7:s5:21:THR:N	7:s5:22:PRO:HD3	2.35	0.42
7:s5:25:LEU:CG	17:c6:27:GLY:HA2	2.49	0.42
7:s5:188:LYS:HG2	7:s5:192:GLU:OE1	2.19	0.42
9:s7:37:GLU:O	9:s7:41:LEU:HD13	2.20	0.42
10:s8:184:LEU:HB3	10:s8:189:LEU:HD13	2.01	0.42
12:c0:37:THR:OG1	12:c0:38:LYS:N	2.53	0.42
15:c4:84:ARG:HB3	15:c4:118:VAL:HG23	2.00	0.42
15:c4:91:THR:OG1	15:c4:93:THR:HG22	2.20	0.42
16:c5:80:MET:HE2	16:c5:80:MET:HB3	1.90	0.42
18:c7:47:ARG:NH2	18:c7:48:ASN:OD1	2.52	0.42
23:d2:24:GLN:HA	23:d2:63:VAL:O	2.19	0.42
1:A:17:C:H2'	1:A:18:C:C6	2.55	0.42
1:A:67:A:H2'	1:A:69:G:O4'	2.19	0.42
1:A:859:A:H62	14:O:69:ASN:ND2	2.17	0.42
1:A:1007:C:O3'	15:P:135:ARG:NH1	2.53	0.42
1:A:1036:A:H1'	23:X:9:ASP:OD1	2.20	0.42
1:A:1078:C:H2'	1:A:1079:U:H6	1.83	0.42
1:A:1234:A:O4'	78:g:145:HIS:HB2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1530:C:OP2	72:a:95:HIS:ND1	2.53	0.42
1:A:1776:A:H2'	1:A:1777:G:H8	1.81	0.42
2:B:76:ILE:HD13	2:B:121:VAL:HG23	2.01	0.42
2:B:147:THR:O	2:B:162:CYS:N	2.41	0.42
3:C:23:PRO:CA	3:C:26:ARG:HG3	2.40	0.42
3:C:81:PHE:HD2	3:C:109:LYS:NZ	2.17	0.42
7:G:192:GLU:OE1	72:a:63:SER:OG	2.37	0.42
12:L:7:ASP:OD2	12:L:37:THR:HG22	2.19	0.42
14:O:40:TYR:HB2	14:O:50:ILE:HG12	2.02	0.42
19:T:61:LEU:HD22	19:T:61:LEU:N	2.26	0.42
20:U:23:GLN:OE1	20:U:23:GLN:HA	2.19	0.42
22:W:58:TYR:CE1	22:W:62:ARG:HG3	2.55	0.42
24:Y:95:PHE:CE2	24:Y:135:LEU:HB3	2.55	0.42
24:Y:124:VAL:HG12	24:Y:132:LEU:HD12	2.02	0.42
28:DC:57:GLY:HA3	51:CS:170:ARG:HD3	2.01	0.42
30:AD:29:SER:OG	35:1:1730:G:O6	2.24	0.42
31:CD:179:LEU:O	31:CD:180:LEU:HB2	2.19	0.42
32:AE:17:HIS:CG	32:AE:69:TYR:HD2	2.37	0.42
33:CE:196:ARG:HA	33:CE:199:PHE:CD1	2.55	0.42
33:CE:280:HIS:HB3	33:CE:324:VAL:CG1	2.50	0.42
35:1:100:A:H3'	35:1:101:G:H21	1.84	0.42
35:1:305:U:C5	35:1:2776:C:H1'	2.55	0.42
35:1:660:A:H5"	38:l:100:PHE:CG	2.54	0.42
35:1:1097:G:H1'	35:1:1098:A:OP2	2.20	0.42
35:1:1097:G:C8	54:2:128:LEU:HD13	2.55	0.42
35:1:1419:A:H5"	38:l:193:LYS:NZ	2.35	0.42
35:1:1573:G:H2'	35:1:1573:G:N3	2.35	0.42
35:1:1658:G:H2'	35:1:1659:U:O4'	2.20	0.42
35:1:1719:G:H4'	35:1:1732:U:H4'	2.01	0.42
35:1:2233:A:OP2	80:1:4156:OHX:N6	2.53	0.42
35:1:2854:U:O3'	44:r:160:PRO:HB3	2.19	0.42
35:1:3231:U:H2'	35:1:3232:G:C8	2.48	0.42
33:k:116:ARG:HB2	33:k:175:LYS:HA	2.01	0.42
38:l:294:GLU:OE2	38:l:294:GLU:N	2.46	0.42
42:p:82:LEU:HD23	42:p:83:ASP:O	2.19	0.42
44:r:36:LEU:HD11	44:r:69:ARG:NH1	2.27	0.42
46:t:106:GLN:N	62:AJ:20:MET:HG3	2.34	0.42
54:2:56:PHE:CZ	54:2:78:LYS:HG3	2.54	0.42
55:5:37:LEU:HB3	55:5:41:ILE:HD11	2.01	0.42
58:8:59:SER:HB3	58:8:98:ALA:HB1	2.00	0.42
27:9:80:VAL:HG12	27:9:101:PRO:HD3	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
59:AG:38:PRO:O	59:AG:74:THR:HG21	2.18	0.42
60:AH:9:ARG:HG3	60:AH:34:HIS:CE1	2.55	0.42
64:AL:64:LYS:HA	64:AL:64:LYS:HD3	1.55	0.42
35:AR:90:C:C2'	35:AR:91:G:H5'	2.50	0.42
35:AR:803:C:C2	35:AR:804:C:C5	3.07	0.42
35:AR:1338:C:H4'	34:DG:60:ASN:HD22	1.83	0.42
35:AR:1444:G:H2'	35:AR:1445:U:O4'	2.19	0.42
35:AR:1564:U:H2'	35:AR:1565:G:C1'	2.49	0.42
35:AR:1593:A:O4'	60:DI:60:ARG:HD3	2.19	0.42
35:AR:1831:U:H2'	35:AR:1832:C:C6	2.54	0.42
35:AR:2430:A:H2'	35:AR:2431:C:H6	1.81	0.42
35:AR:2527:G:H2'	35:AR:2528:G:C8	2.54	0.42
35:AR:3112:G:O6	35:AR:3120:C:H5"	2.20	0.42
35:AR:3276:G:H5'	40:CH:48:ARG:HH12	1.85	0.42
40:CH:3:ALA:HB1	34:DG:75:LEU:HD23	2.01	0.42
41:CI:57:THR:OG1	41:CI:58:ALA:N	2.52	0.42
34:DG:32:TRP:CG	34:DG:33:ARG:N	2.87	0.42
60:DI:100:ILE:C	60:DI:103:LYS:HD2	2.45	0.42
67:DP:8:LYS:HD3	67:DP:12:ARG:NH2	2.34	0.42
71:p0:11:TYR:CD1	71:p0:11:TYR:C	2.98	0.42
71:p0:25:LEU:HD22	71:p0:26:PHE:H	1.85	0.42
79:h:13:LEU:HD12	79:h:45:TRP:CZ3	2.55	0.42
79:h:178:VAL:HG21	79:h:202:LEU:HD11	2.02	0.42
79:h:192:PHE:HD2	79:h:223:TRP:CD2	2.37	0.42
1:sR:1:U:C4	1:sR:369:A:C6	3.08	0.42
1:sR:542:A:H1'	1:sR:543:C:P	2.60	0.42
1:sR:545:A:H4'	1:sR:546:U:H5'	2.00	0.42
1:sR:1010:C:H2'	1:sR:1011:G:O4'	2.19	0.42
1:sR:1488:G:OP2	5:s3:8:LYS:HE3	2.20	0.42
1:sR:1733:C:H2'	1:sR:1734:U:H6	1.83	0.42
79:Rb:5:GLU:OE1	79:Rb:249:ARG:NH1	2.52	0.42
79:Rb:64:HIS:CE1	79:Rb:88:THR:OG1	2.73	0.42
79:Rb:126:SER:O	79:Rb:151:VAL:HG22	2.20	0.42
3:s1:143:THR:OG1	3:s1:154:SER:O	2.35	0.42
4:s2:88:LYS:O	4:s2:95:ARG:HB2	2.20	0.42
6:s4:13:ALA:O	6:s4:39:ARG:NH2	2.48	0.42
7:s5:94:THR:HG22	7:s5:114:ILE:HG12	2.01	0.42
9:s7:169:PHE:HA	9:s7:172:VAL:CG1	2.50	0.42
13:c1:55:ASP:CG	13:c1:58:CYS:HB2	2.45	0.42
14:c3:28:LEU:O	14:c3:29:SER:C	2.62	0.42
14:c3:31:GLU:OE1	14:c3:31:GLU:N	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:c3:128:TYR:O	14:c3:132:VAL:HG22	2.19	0.42
16:c5:86:VAL:H	16:c5:89:MET:HE2	1.83	0.42
17:c6:69:VAL:CG1	17:c6:81:ILE:HG13	2.47	0.42
18:c7:21:TYR:HD1	18:c7:58:MET:HE1	1.83	0.42
19:c8:116:LEU:CD1	19:c8:123:ARG:HB3	2.49	0.42
20:c9:37:VAL:O	20:c9:46:PRO:HB3	2.19	0.42
73:d6:66:LYS:HB3	73:d6:66:LYS:HE2	1.59	0.42
75:d8:60:GLU:CD	75:d8:60:GLU:H	2.27	0.42
1:A:121:U:H1'	6:F:33:ALA:O	2.19	0.42
1:A:471:A:N7	80:A:2134:OHX:N6	2.68	0.42
1:A:572:C:OP1	24:Y:114:LYS:O	2.37	0.42
1:A:720:G:N3	1:A:720:G:H2'	2.34	0.42
1:A:741:C:O2'	1:A:742:U:OP2	2.29	0.42
1:A:1060:U:H2'	1:A:1061:A:O4'	2.20	0.42
1:A:1079:U:H2'	1:A:1080:U:H6	1.83	0.42
1:A:1278:G:H2'	1:A:1279:C:O4'	2.19	0.42
1:A:1301:U:H5'	4:D:88:LYS:HD2	2.00	0.42
1:A:1501:C:N4	20:U:102:ARG:HH21	2.18	0.42
2:B:17:LEU:H	2:B:17:LEU:HD12	1.83	0.42
2:B:191:ARG:O	2:B:192:THR:C	2.62	0.42
3:C:133:TYR:CG	3:C:181:LEU:HD21	2.54	0.42
3:C:146:GLN:N	3:C:149:GLN:HE21	2.17	0.42
3:C:214:LYS:O	3:C:215:VAL:HG23	2.19	0.42
4:D:160:GLY:HA3	4:D:213:ALA:O	2.18	0.42
4:D:245:ASP:O	4:D:248:SER:OG	2.31	0.42
6:F:36:HIS:CD2	6:F:85:GLY:HA3	2.54	0.42
7:G:64:VAL:HG23	7:G:65:ARG:HD3	2.01	0.42
8:H:48:TYR:CE2	8:H:117:GLY:HA3	2.54	0.42
11:K:121:SER:HG	11:K:124:HIS:H	1.62	0.42
12:L:68:LEU:HD12	12:L:69:THR:N	2.35	0.42
18:S:78:ARG:C	18:S:80:ARG:H	2.27	0.42
20:U:6:VAL:CG1	20:U:66:TYR:CE2	3.03	0.42
20:U:61:VAL:HG13	20:U:62:ALA:N	2.35	0.42
24:Y:112:LYS:O	24:Y:113:ALA:C	2.62	0.42
26:AA:5:LEU:HD23	26:AA:5:LEU:HA	1.67	0.42
26:AA:30:ASP:OD1	26:AA:31:GLU:HG3	2.20	0.42
28:AB:63:LYS:HE3	28:AB:68:PHE:CZ	2.54	0.42
28:DC:90:TYR:CG	28:DC:100:PRO:HG3	2.55	0.42
28:DC:125:VAL:O	28:DC:145:VAL:HA	2.20	0.42
33:CE:187:SER:O	33:CE:190:GLU:N	2.53	0.42
35:1:353:G:O6	63:AK:52:LYS:HD3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:769:G:OP1	46:t:175:SER:HB2	2.20	0.42
35:1:1132:C:H2'	35:1:1133:A:H8	1.84	0.42
35:1:1155:C:H2'	35:1:1156:C:H6	1.84	0.42
35:1:1397:C:O2'	35:1:1398:U:H5'	2.19	0.42
35:1:1628:C:H5"	35:1:1629:U:C2'	2.50	0.42
35:1:1813:A:OP1	35:1:1817:G:O2'	2.38	0.42
35:1:2656:A:C4	35:1:2658:G:N7	2.88	0.42
35:1:3279:A:C6	35:1:3280:U:C4	3.07	0.42
35:1:3300:U:OP1	80:1:4170:OHX:N5	2.53	0.42
37:4:140:G:H2'	37:4:141:C:O4'	2.20	0.42
38:l:181:VAL:HG11	38:l:224:GLY:HA3	2.01	0.42
42:p:94:PHE:HB3	42:p:189:LEU:HD11	2.01	0.42
50:x:28:ASN:O	50:x:32:THR:HG22	2.19	0.42
55:5:35:LYS:HA	55:5:38:ILE:HD12	2.01	0.42
68:AP:37:ALA:O	68:AP:38:GLN:C	2.61	0.42
35:AR:191:U:H2'	35:AR:192:C:H6	1.85	0.42
35:AR:364:G:O3'	38:CF:84:ARG:HG2	2.19	0.42
35:AR:429:U:H4'	59:DH:88:ASN:O	2.20	0.42
35:AR:658:G:N2	38:CF:93:MET:HB2	2.34	0.42
35:AR:830:A:O2'	35:AR:1866:C:H2'	2.19	0.42
35:AR:916:G:N7	35:AR:924:G:C5	2.87	0.42
35:AR:1083:G:H2'	35:AR:1084:A:H8	1.81	0.42
35:AR:1184:A:H2'	35:AR:1185:C:C6	2.54	0.42
35:AR:1595:U:C2	35:AR:1596:C:C5	3.07	0.42
35:AR:2261:G:HO2'	35:AR:2263:C:N4	2.16	0.42
35:AR:2524:A:C2	42:CJ:44:ARG:HD2	2.54	0.42
35:AR:2674:A:C2	45:CM:124:GLY:HA3	2.55	0.42
35:AR:2812:C:H2'	35:AR:2813:A:C8	2.54	0.42
35:AR:3141:A:H3'	35:AR:3142:A:O3'	2.20	0.42
80:AR:3501:OHX:N6	36:AS:86:U:H1'	2.34	0.42
36:AS:57:G:H3'	36:AS:58:C:H6	1.84	0.42
37:AT:14:C:C4	37:AT:15:G:C6	3.08	0.42
41:CI:236:ILE:HD12	41:CI:236:ILE:HA	1.82	0.42
44:CL:46:PHE:HB3	44:CL:140:THR:N	2.35	0.42
49:CQ:39:GLU:OE1	49:CQ:107:GLY:N	2.49	0.42
49:CQ:48:PHE:O	49:CQ:52:LEU:HG	2.20	0.42
51:CS:23:ASN:O	51:CS:27:LYS:HG3	2.18	0.42
59:DH:103:TYR:HA	59:DH:104:PRO:C	2.44	0.42
60:DI:51:LEU:H	60:DI:51:LEU:CD2	2.32	0.42
64:DM:69:LEU:HA	64:DM:70:PRO:HD3	1.91	0.42
68:DQ:69:VAL:HG22	68:DQ:84:THR:HG23	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:p0:8:LYS:HB3	71:p0:58:MET:HE1	2.01	0.42
71:p0:12:PHE:CD1	71:p0:62:ALA:HB2	2.55	0.42
71:p0:63:ILE:HG21	71:p0:77:LEU:HD11	2.02	0.42
79:h:202:LEU:HA	79:h:202:LEU:HD23	1.51	0.42
79:h:276:PRO:HG2	79:h:278:PHE:CZ	2.55	0.42
1:sR:66:U:C5'	8:s6:173:PRO:HA	2.49	0.42
1:sR:364:G:OP1	80:sR:1988:OHX:N2	2.53	0.42
1:sR:492:A:C2'	1:sR:493:U:H5"	2.50	0.42
1:sR:558:U:OP2	77:e0:55:ARG:NH2	2.38	0.42
1:sR:565:C:H4'	1:sR:566:C:O5'	2.19	0.42
1:sR:604:A:H2'	1:sR:605:A:O4'	2.19	0.42
1:sR:678:A:H5"	1:sR:679:U:OP2	2.20	0.42
1:sR:929:A:H5"	1:sR:930:A:OP2	2.18	0.42
1:sR:1078:C:H2'	1:sR:1079:U:H6	1.84	0.42
1:sR:1258:U:H5	1:sR:1259:U:N3	2.17	0.42
1:sR:1357:A:H2'	1:sR:1358:G:C8	2.55	0.42
1:sR:1428:G:H8	1:sR:1428:G:H5'	1.85	0.42
1:sR:1459:C:N4	19:c8:139:LYS:HG3	2.34	0.42
1:sR:1476:C:H2'	1:sR:1477:G:H8	1.84	0.42
1:sR:1613:U:C2'	1:sR:1614:A:H5'	2.50	0.42
79:Rb:10:ARG:HB2	79:Rb:51:ASP:HB3	2.01	0.42
79:Rb:18:GLY:CA	79:Rb:38:ARG:HB2	2.50	0.42
79:Rb:206:PRO:HG3	79:Rb:247:PRO:HB3	2.02	0.42
2:s0:61:ALA:HA	2:s0:64:ILE:CG2	2.50	0.42
2:s0:123:VAL:HG12	2:s0:124:THR:H	1.83	0.42
2:s0:175:TYR:HD2	2:s0:176:LEU:HD23	1.84	0.42
5:s3:142:LEU:CD2	5:s3:148:LYS:HD2	2.49	0.42
7:s5:140:THR:HB	7:s5:171:ALA:HB1	2.01	0.42
9:s7:6:ALA:O	9:s7:9:LEU:HD23	2.18	0.42
15:c4:103:ARG:NH2	73:d6:52:ASP:OD2	2.52	0.42
19:c8:108:LYS:HD3	19:c8:108:LYS:HA	1.80	0.42
21:d0:43:LYS:O	21:d0:47:GLN:N	2.53	0.42
23:d2:28:ARG:HA	23:d2:29:PRO:HA	1.65	0.42
74:d7:81:ARG:NH1	74:d7:82:LYS:HA	2.35	0.42
75:d8:54:LEU:HD22	75:d8:55:VAL:N	2.28	0.42
1:A:36:C:H2'	1:A:37:U:O4'	2.20	0.42
1:A:219:A:N7	1:A:830:U:C5	2.87	0.42
1:A:478:A:H61	1:A:539:G:H1	1.68	0.42
1:A:868:G:C2	1:A:961:U:C2	3.08	0.42
1:A:1427:A:O2'	1:A:1428:G:OP1	2.27	0.42
1:A:1535:U:O2'	1:A:1536:G:H5"	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1542:G:N2	1:A:1569:A:OP2	2.53	0.42
2:B:110:TYR:HD2	4:D:64:LYS:HD2	1.84	0.42
3:C:94:LYS:HG2	3:C:94:LYS:O	2.19	0.42
4:D:40:LYS:C	4:D:42:GLY:N	2.78	0.42
5:E:223:LYS:HD2	5:E:223:LYS:HA	1.67	0.42
6:F:232:GLY:O	6:F:234:PRO:HD3	2.20	0.42
7:G:92:ARG:NH2	7:G:169:ASN:OD1	2.53	0.42
11:K:108:ARG:NH2	11:K:144:PRO:HB2	2.35	0.42
11:K:109:LEU:CB	11:K:146:PHE:HB3	2.48	0.42
12:L:14:TYR:CD1	12:L:14:TYR:C	2.98	0.42
19:T:27:LYS:HE2	19:T:55:HIS:O	2.20	0.42
19:T:96:LYS:HB2	19:T:98:TYR:CE1	2.54	0.42
32:AE:11:GLU:HB2	32:AE:72:ARG:HH21	1.85	0.42
33:CE:227:GLU:HG2	33:CE:270:ARG:HD3	2.01	0.42
30:DE:84:LEU:HD23	30:DE:84:LEU:HA	1.85	0.42
34:AF:121:ASN:OD1	34:AF:121:ASN:N	2.51	0.42
35:1:62:A:H2'	35:1:63:A:H8	1.85	0.42
35:1:633:C:O2'	59:AG:22:VAL:HA	2.19	0.42
35:1:916:G:H5'	35:1:917:A:OP1	2.19	0.42
35:1:1478:C:H2'	35:1:1479:U:H6	1.85	0.42
35:1:2118:C:H2'	35:1:2119:A:O4'	2.19	0.42
35:1:2523:A:C5	42:p:51:LYS:HG3	2.54	0.42
35:1:3106:A:H2'	35:1:3107:U:O4'	2.19	0.42
37:4:56:G:H2'	37:4:57:C:C6	2.55	0.42
33:k:49:TYR:OH	33:k:166:ILE:HD12	2.20	0.42
38:l:269:SER:O	38:l:269:SER:OG	2.36	0.42
38:l:352:ALA:HB2	41:o:71:ALA:O	2.20	0.42
39:m:60:ILE:HB	39:m:80:SER:CB	2.50	0.42
41:o:222:HIS:ND1	41:o:224:ILE:HG13	2.34	0.42
43:q:12:VAL:HB	43:q:51:GLN:HA	2.01	0.42
43:q:137:SER:OG	43:q:143:GLU:HB3	2.19	0.42
45:s:163:PHE:O	45:s:166:LYS:O	2.37	0.42
53:0:90:MET:HE1	53:0:114:HIS:NE2	2.35	0.42
54:2:25:VAL:HG13	54:2:30:TYR:HE1	1.84	0.42
58:8:115:ARG:HD3	58:8:121:LYS:HE3	2.02	0.42
62:AJ:43:LEU:CD2	62:AJ:47:ILE:HD11	2.50	0.42
62:AJ:61:ILE:HD12	62:AJ:62:ARG:N	2.35	0.42
63:AK:26:SER:O	63:AK:35:SER:N	2.34	0.42
64:AL:15:THR:HB	64:AL:70:PRO:HG2	2.02	0.42
66:AN:112:LYS:HD3	66:AN:112:LYS:HA	1.85	0.42
35:AR:289:A:C2	48:CP:93:LYS:HG3	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:816:A:N1	35:AR:919:U:H1'	2.35	0.42
35:AR:1596:C:O2'	35:AR:1696:A:N3	2.51	0.42
35:AR:2656:A:C4	35:AR:2658:G:N7	2.88	0.42
38:CF:120:TYR:O	38:CF:120:TYR:HD1	2.03	0.42
38:CF:361:HIS:O	53:CU:28:ARG:NH1	2.50	0.42
39:CG:229:ASP:HB2	39:CG:231:ILE:HD12	2.02	0.42
41:CI:147:LEU:HD22	41:CI:205:PHE:CD2	2.55	0.42
43:CK:86:TYR:CD1	43:CK:151:VAL:HG22	2.54	0.42
46:CN:165:SER:O	46:CN:166:ALA:C	2.63	0.42
47:CO:27:GLN:HG2	47:CO:28:SER:N	2.35	0.42
53:CU:58:ILE:HD12	53:CU:58:ILE:HA	1.77	0.42
61:DJ:45:LYS:HA	61:DJ:48:ARG:HG2	2.02	0.42
68:DQ:14:GLY:O	68:DQ:15:LYS:HB3	2.20	0.42
69:DR:11:THR:CG2	69:DR:27:LYS:HB2	2.50	0.42
70:sM:60:ALA:O	70:sM:63:ASP:HB3	2.20	0.42
79:h:157:VAL:HG12	79:h:168:THR:H	1.84	0.42
1:sR:17:C:H2'	1:sR:18:C:C6	2.54	0.42
1:sR:210:A:H2'	1:sR:211:U:O4'	2.20	0.42
1:sR:330:G:H2'	1:sR:331:A:C8	2.54	0.42
1:sR:1346:A:H4'	1:sR:1347:U:OP1	2.18	0.42
1:sR:1350:U:H2'	1:sR:1351:G:C8	2.55	0.42
1:sR:1366:U:H2'	1:sR:1367:G:O4'	2.20	0.42
79:Rb:62:LYS:HD2	79:Rb:62:LYS:HA	1.84	0.42
79:Rb:121:MET:SD	79:Rb:183:LEU:HD23	2.60	0.42
79:Rb:200:ASN:HB2	79:Rb:241:PHE:HA	2.01	0.42
2:s0:34:GLU:N	2:s0:35:PRO:HD2	2.35	0.42
2:s0:60:ALA:O	2:s0:64:ILE:HG22	2.19	0.42
3:s1:77:GLU:OE2	15:c4:114:ARG:NH2	2.52	0.42
3:s1:137:ILE:HG12	3:s1:172:LEU:HD13	2.01	0.42
4:s2:144:TRP:HB2	4:s2:172:ALA:O	2.20	0.42
5:s3:105:MET:HE2	5:s3:105:MET:HB2	1.63	0.42
5:s3:215:GLU:HA	5:s3:216:PRO:HD2	1.86	0.42
7:s5:81:ARG:HB3	7:s5:82:PHE:CD1	2.55	0.42
8:s6:143:LYS:HD3	8:s6:143:LYS:HA	1.56	0.42
12:c0:39:ASN:O	12:c0:43:ILE:HG12	2.19	0.42
13:c1:14:GLN:CB	13:c1:54:ILE:HG13	2.48	0.42
16:c5:87:PRO:O	16:c5:90:ILE:HG13	2.20	0.42
17:c6:19:VAL:O	17:c6:67:VAL:HG23	2.20	0.42
19:c8:30:TYR:HE1	19:c8:40:ARG:NE	2.15	0.42
19:c8:48:LYS:NZ	20:c9:50:ALA:HB1	2.35	0.42
20:c9:24:ARG:HG3	20:c9:24:ARG:NH1	2.33	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:d4:2:SER:O	25:d4:2:SER:OG	2.35	0.42
25:d4:25:VAL:HG12	25:d4:27:VAL:HG23	2.01	0.42
73:d6:12:LYS:HE3	73:d6:12:LYS:HB3	1.83	0.42
1:A:427:C:O2'	1:A:459:G:N3	2.45	0.42
1:A:579:A:C2	5:E:143:ARG:HD3	2.55	0.42
1:A:629:U:OP1	14:O:127:ARG:NH2	2.52	0.42
1:A:822:U:C3'	1:A:823:G:H5"	2.49	0.42
2:B:175:TYR:CD1	2:B:175:TYR:C	2.98	0.42
2:B:200:ASP:HA	2:B:203:PHE:CD1	2.55	0.42
5:E:34:TYR:CE1	5:E:37:VAL:HG13	2.55	0.42
5:E:76:ARG:NH2	5:E:77:PHE:HA	2.35	0.42
8:H:164:LYS:HB2	8:H:167:LYS:HB2	2.02	0.42
9:I:111:LYS:O	9:I:112:ARG:CB	2.58	0.42
9:I:133:THR:H	9:I:133:THR:HG23	1.61	0.42
10:J:48:THR:CG2	10:J:54:LYS:HB2	2.49	0.42
11:K:77:ILE:O	11:K:81:VAL:HG13	2.20	0.42
12:L:46:LEU:HG	12:L:66:TYR:CD2	2.55	0.42
20:U:34:VAL:O	20:U:34:VAL:HG13	2.20	0.42
23:X:3:ARG:HH12	23:X:6:VAL:HA	1.83	0.42
23:X:112:ASP:OD1	23:X:112:ASP:C	2.63	0.42
23:X:119:LYS:HZ2	23:X:119:LYS:HG3	1.54	0.42
24:Y:13:ARG:O	24:Y:17:VAL:HG22	2.19	0.42
24:Y:79:ASN:HD21	24:Y:81:LYS:HD2	1.85	0.42
28:AB:25:HIS:ND1	35:1:661:G:N7	2.66	0.42
28:AB:35:ALA:CB	35:1:39:A:H5"	2.49	0.42
28:AB:99:ALA:N	46:t:157:ARG:O	2.53	0.42
29:AC:11:ASN:OD1	29:AC:14:ARG:HD2	2.20	0.42
31:CD:93:LYS:HA	31:CD:93:LYS:HD2	1.83	0.42
29:DD:50:THR:OG1	35:AR:1073:U:H1'	2.20	0.42
33:CE:161:LEU:HB3	33:CE:178:LEU:HD11	2.01	0.42
35:1:80:G:H2'	35:1:81:C:C6	2.55	0.42
35:1:780:A:O4'	51:y:162:ALA:HA	2.20	0.42
35:1:1478:C:H2'	35:1:1479:U:C6	2.54	0.42
35:1:1488:G:H21	60:AH:12:PRO:CG	2.33	0.42
35:1:1752:A:OP2	80:1:3542:OHX:N3	2.53	0.42
35:1:1824:U:H2'	35:1:1825:G:H8	1.85	0.42
35:1:2105:G:O2'	35:1:2106:A:H5'	2.20	0.42
35:1:2555:G:C5	35:1:2556:C:C5	3.08	0.42
35:1:2691:A:H2'	35:1:2692:A:C8	2.55	0.42
35:1:2718:U:H2'	35:1:2719:U:C6	2.55	0.42
37:4:151:C:N3	58:8:24:LEU:HD21	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:k:361:THR:O	33:k:361:THR:OG1	2.35	0.42
39:m:143:LYS:HE3	39:m:145:PHE:CZ	2.54	0.42
41:o:236:ILE:O	41:o:240:VAL:HG23	2.20	0.42
46:t:122:LYS:HE2	46:t:122:LYS:HB3	1.62	0.42
53:0:135:VAL:HG13	53:0:141:LYS:HZ3	1.85	0.42
53:0:155:ARG:HD3	53:0:172:TYR:CG	2.55	0.42
58:8:78:ASP:OD1	58:8:78:ASP:N	2.52	0.42
60:AH:65:VAL:CG1	60:AH:69:HIS:HB2	2.50	0.42
63:AK:2:GLY:HA2	63:AK:6:PRO:HG2	2.00	0.42
64:AL:61:LYS:O	64:AL:65:LEU:HB2	2.19	0.42
70:i:102:THR:O	70:i:106:VAL:HG13	2.20	0.42
35:AR:430:U:OP2	80:AR:3484:OHX:N2	2.53	0.42
35:AR:2162:U:H2'	35:AR:2163:C:O4'	2.19	0.42
35:AR:2287:C:O2	80:AR:3447:OHX:N3	2.53	0.42
35:AR:2611:U:H2'	35:AR:2612:U:H6	1.85	0.42
35:AR:2856:G:H2'	35:AR:2857:C:H6	1.85	0.42
35:AR:3299:A:H61	35:AR:3315:G:H1	1.68	0.42
35:AR:3356:G:H2'	35:AR:3357:U:H6	1.85	0.42
42:CJ:79:GLN:HG3	42:CJ:80:TYR:CD1	2.55	0.42
48:CP:153:ASP:CG	48:CP:155:VAL:HG12	2.44	0.42
51:CS:58:ASN:C	51:CS:60:PRO:HD3	2.45	0.42
53:CU:27:MET:HG2	54:CV:151:LEU:O	2.20	0.42
54:CV:106:LEU:HA	54:CV:109:VAL:CG1	2.50	0.42
68:DQ:37:ALA:O	68:DQ:38:GLN:C	2.59	0.42
72:a:84:GLU:CB	72:a:89:ILE:HD11	2.50	0.42
78:g:96:LYS:H	78:g:96:LYS:HG2	1.65	0.42
79:h:20:VAL:O	79:h:291:SER:OG	2.18	0.42
79:h:180:ALA:O	79:h:188:ILE:HD12	2.19	0.42
1:sR:604:A:OP2	80:sR:2004:OHX:N1	2.52	0.42
1:sR:754:A:H3'	1:sR:755:A:H5'	2.02	0.42
1:sR:961:U:H2'	1:sR:962:C:H6	1.85	0.42
1:sR:1074:G:N7	80:sR:1994:OHX:N1	2.67	0.42
1:sR:1204:A:H1'	1:sR:1554:U:O4	2.20	0.42
1:sR:1219:A:O2'	12:c0:48:SER:HA	2.20	0.42
1:sR:1334:U:H2'	1:sR:1335:U:H6	1.85	0.42
1:sR:1345:A:H2'	1:sR:1348:A:H62	1.84	0.42
79:Rb:150:TRP:HZ2	18:c7:34:LEU:HA	1.83	0.42
5:s3:68:GLU:HA	5:s3:71:LEU:HD22	2.02	0.42
5:s3:125:TYR:CD1	5:s3:125:TYR:C	2.98	0.42
6:s4:126:VAL:HG23	6:s4:156:VAL:HA	2.01	0.42
6:s4:166:SER:O	6:s4:168:LYS:HG2	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:s4:244:ILE:HD12	6:s4:244:ILE:HA	1.84	0.42
10:s8:184:LEU:CB	10:s8:189:LEU:HD13	2.49	0.42
12:c0:16:PHE:CE2	12:c0:73:VAL:HG23	2.55	0.42
12:c0:54:TYR:HB3	12:c0:72:GLY:HA2	2.01	0.42
19:c8:69:ILE:O	19:c8:73:MET:HG3	2.20	0.42
72:d5:40:VAL:HG13	72:d5:41:ILE:N	2.35	0.42
76:d9:32:ARG:HG2	76:d9:32:ARG:H	1.67	0.42
77:e0:53:LYS:HD3	77:e0:53:LYS:HA	1.61	0.42
1:A:12:U:H2'	1:A:13:C:H6	1.74	0.42
1:A:463:U:H2'	1:A:464:A:C8	2.54	0.42
1:A:645:C:H2'	1:A:646:C:C6	2.55	0.42
1:A:923:A:H2'	1:A:924:A:C8	2.55	0.42
1:A:1176:G:C6	1:A:1464:G:C6	3.08	0.42
1:A:1316:G:O5'	18:S:7:LYS:HB2	2.20	0.42
1:A:1504:G:H2'	1:A:1505:A:C8	2.55	0.42
2:B:65:ALA:CB	2:B:181:VAL:HG23	2.41	0.42
2:B:143:VAL:O	2:B:157:ASP:CB	2.68	0.42
3:C:90:GLU:HB2	3:C:223:PHE:CZ	2.55	0.42
3:C:185:THR:HA	3:C:188:LEU:CD2	2.49	0.42
5:E:164:VAL:HG12	5:E:168:ILE:CG1	2.49	0.42
13:M:37:ASN:ND2	13:M:42:PHE:O	2.48	0.42
16:Q:58:LYS:HG3	16:Q:59:LYS:NZ	2.35	0.42
17:R:113:ASP:HB2	17:R:116:LEU:HB2	2.02	0.42
18:S:5:ARG:H	18:S:5:ARG:CD	2.33	0.42
18:S:84:TYR:CE1	18:S:85:VAL:HB	2.55	0.42
19:T:89:GLN:O	19:T:90:ASN:C	2.63	0.42
21:V:28:SER:CB	21:V:112:VAL:HG12	2.50	0.42
23:X:55:ASP:C	23:X:57:ARG:H	2.27	0.42
26:AA:95:VAL:HG11	26:AA:113:VAL:CG1	2.49	0.42
27:DA:24:SER:OG	27:DA:75:ARG:HD3	2.20	0.42
33:CE:20:LYS:HB2	35:AR:2991:A:P	2.60	0.42
33:CE:114:VAL:O	33:CE:117:ARG:N	2.52	0.42
33:CE:153:LYS:HD3	33:CE:154:TYR:CZ	2.55	0.42
33:CE:303:LYS:O	33:CE:303:LYS:HG3	2.20	0.42
30:DE:24:THR:HG22	30:DE:91:SER:HB3	2.01	0.42
35:1:197:G:N2	35:1:372:A:C8	2.88	0.42
35:1:948:C:H2'	35:1:949:C:C6	2.55	0.42
35:1:1392:G:H1'	35:1:1418:A:N6	2.35	0.42
35:1:2578:U:H2'	35:1:2579:G:O4'	2.19	0.42
35:1:2913:C:H2'	35:1:2914:G:H8	1.84	0.42
35:1:3120:C:H3'	66:AN:111:ARG:NH1	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:3204:C:H2'	35:1:3205:G:C8	2.55	0.42
35:1:3212:C:OP2	47:u:124:ARG:NH1	2.53	0.42
35:1:3288:G:N3	35:1:3289:G:N7	2.68	0.42
35:1:3364:C:H2'	35:1:3365:U:H6	1.84	0.42
37:4:7:U:C2	37:4:8:C:C5	3.08	0.42
37:4:65:A:H5"	61:AI:6:ALA:HB2	2.01	0.42
37:4:120:C:H2'	37:4:121:U:O4'	2.20	0.42
38:l:347:THR:CG2	38:l:349:THR:HG23	2.50	0.42
42:p:107:GLU:HA	42:p:110:THR:HG22	2.02	0.42
42:p:107:GLU:O	42:p:110:THR:HG22	2.20	0.42
44:r:191:LYS:O	44:r:197:VAL:HG13	2.20	0.42
45:s:122:ILE:O	45:s:123:PHE:CD1	2.73	0.42
46:t:59:ARG:HD2	46:t:59:ARG:HA	1.82	0.42
46:t:153:ASP:OD2	46:t:157:ARG:NH2	2.53	0.42
48:v:75:VAL:HG23	48:v:75:VAL:O	2.19	0.42
49:w:158:ALA:O	49:w:162:VAL:HG13	2.19	0.42
50:x:169:THR:HB	50:x:171:ARG:HH21	1.85	0.42
69:AQ:81:SER:O	69:AQ:84:ARG:HG2	2.20	0.42
35:AR:409:A:H61	37:AT:15:G:H1'	1.85	0.42
35:AR:897:U:H2'	35:AR:898:U:C6	2.55	0.42
35:AR:1023:C:H42	35:AR:1029:G:H1	1.67	0.42
35:AR:1088:U:H2'	35:AR:1089:G:H8	1.83	0.42
35:AR:1243:G:H8	35:AR:1243:G:OP2	2.02	0.42
35:AR:1255:C:H2'	35:AR:1256:G:H8	1.85	0.42
35:AR:1334:U:C2	35:AR:1335:C:C5	3.08	0.42
35:AR:2186:U:H2'	35:AR:2187:G:O4'	2.20	0.42
35:AR:2211:U:OP1	80:AR:3692:OHX:N2	2.53	0.42
35:AR:2217:U:H2'	35:AR:2218:G:C8	2.54	0.42
35:AR:2656:A:C8	35:AR:2658:G:C8	3.08	0.42
37:AT:5:U:H2'	37:AT:6:U:C6	2.55	0.42
41:CI:159:GLN:O	41:CI:160:ARG:C	2.61	0.42
46:CN:131:LYS:HG3	46:CN:133:PRO:HD3	2.02	0.42
46:CN:162:ASN:OD1	46:CN:164:GLU:HG2	2.19	0.42
48:CP:22:LEU:O	48:CP:26:ARG:HG3	2.19	0.42
51:CS:105:ARG:HG3	51:CS:105:ARG:NH1	2.34	0.42
52:CT:19:LYS:HB2	52:CT:19:LYS:HE2	1.84	0.42
52:CT:45:VAL:HG22	52:CT:50:ILE:HB	2.00	0.42
69:DR:49:ARG:HG2	69:DR:50:GLY:N	2.31	0.42
71:p0:41:VAL:HG12	71:p0:104:ARG:HB2	2.02	0.42
79:h:128:ASP:O	79:h:130:THR:HG23	2.20	0.42
79:h:153:GLN:HE21	79:h:202:LEU:H	1.68	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:h:176:LYS:HG2	79:h:176:LYS:O	2.19	0.42
1:sR:478:A:O2'	11:s9:124:HIS:CD2	2.73	0.42
1:sR:902:G:P	15:c4:24:ASN:HD22	2.42	0.42
1:sR:1689:A:H2'	1:sR:1690:G:C8	2.55	0.42
79:Rb:21:THR:HG23	79:Rb:37:SER:HA	2.02	0.42
79:Rb:240:VAL:HG23	79:Rb:255:ALA:N	2.34	0.42
2:s0:175:TYR:OH	2:s0:197:ILE:O	2.21	0.42
3:s1:176:VAL:O	3:s1:177:GLN:C	2.61	0.42
4:s2:53:ILE:HG21	4:s2:73:LEU:HD11	2.01	0.42
4:s2:238:SER:OG	4:s2:241:ASP:OD2	2.35	0.42
5:s3:141:LYS:HD2	5:s3:179:GLN:HG3	2.02	0.42
7:s5:118:LEU:O	7:s5:121:ILE:HG13	2.20	0.42
7:s5:134:VAL:O	7:s5:138:THR:HG23	2.19	0.42
7:s5:161:ASP:OD2	75:d8:56:LEU:HG	2.20	0.42
8:s6:199:GLN:HG2	8:s6:202:ARG:NH2	2.34	0.42
15:c4:127:ARG:HG3	73:d6:22:ARG:HH12	1.85	0.42
23:d2:11:LEU:HD23	23:d2:11:LEU:HA	1.83	0.42
23:d2:80:ASN:OD1	23:d2:124:LYS:NZ	2.53	0.42
24:d3:71:CYS:HB3	24:d3:85:ALA:O	2.20	0.42
1:A:117:U:H2'	1:A:118:U:O4'	2.20	0.41
1:A:706:A:O2'	1:A:707:A:C8	2.73	0.41
1:A:1211:A:H2'	1:A:1212:G:O4'	2.21	0.41
1:A:1366:U:H5'	17:R:30:LYS:NZ	2.35	0.41
2:B:13:ASP:HA	2:B:16:LEU:HD13	2.01	0.41
2:B:121:VAL:CG1	2:B:143:VAL:HG22	2.50	0.41
4:D:103:VAL:HG11	4:D:187:LEU:HD12	2.02	0.41
5:E:120:TYR:HA	5:E:123:VAL:CG1	2.49	0.41
5:E:222:VAL:CG1	79:h:229:LYS:HA	2.50	0.41
6:F:141:THR:OG1	6:F:143:ASP:CG	2.63	0.41
7:G:76:ARG:HG3	7:G:76:ARG:NH1	2.35	0.41
7:G:126:ASP:OD1	7:G:126:ASP:N	2.51	0.41
11:K:34:PHE:CD2	11:K:105:LEU:HB3	2.54	0.41
11:K:47:PHE:C	11:K:47:PHE:CD1	2.98	0.41
11:K:132:ARG:HG2	11:K:132:ARG:O	2.20	0.41
12:L:7:ASP:HA	12:L:10:LYS:CD	2.50	0.41
12:L:68:LEU:HD21	12:L:76:LEU:HD21	2.02	0.41
18:S:32:LYS:HG3	18:S:47:ARG:NH1	2.35	0.41
18:S:36:ASP:OD1	18:S:47:ARG:NE	2.53	0.41
21:V:27:THR:O	21:V:113:ASP:N	2.34	0.41
35:1:77:A:H5'	46:t:100:ARG:CZ	2.50	0.41
35:1:439:C:H3'	35:1:440:A:C8	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:855:U:H2'	35:1:856:G:O4'	2.20	0.41
35:1:1249:G:H2'	35:1:1250:G:C8	2.55	0.41
35:1:1613:A:OP2	64:AL:46:ARG:NH2	2.34	0.41
35:1:2245:C:O4'	31:j:222:ALA:HA	2.20	0.41
35:1:2311:G:OP2	80:1:4125:OHX:N5	2.53	0.41
35:1:2354:C:H2'	35:1:2355:G:O4'	2.19	0.41
35:1:2423:U:H2'	35:1:2424:A:H8	1.84	0.41
35:1:3111:U:O4	35:1:3120:C:H4'	2.20	0.41
35:1:3163:A:C6	35:1:3288:G:N1	2.88	0.41
36:3:110:G:O2'	36:3:111:U:H5'	2.20	0.41
31:j:180:LEU:HD22	69:AQ:18:TYR:CG	2.55	0.41
39:m:214:ASP:OD1	39:m:214:ASP:C	2.63	0.41
44:r:177:ASP:O	44:r:178:ARG:C	2.63	0.41
45:s:36:VAL:HG22	45:s:120:ILE:HD12	2.02	0.41
49:w:77:SER:HB3	49:w:106:GLU:OE2	2.20	0.41
50:x:14:SER:HA	50:x:150:VAL:O	2.20	0.41
50:x:169:THR:HG23	50:x:172:GLN:OE1	2.19	0.41
61:AI:36:LEU:HD23	61:AI:36:LEU:H	1.84	0.41
35:AR:503:C:C2	35:AR:504:A:C8	3.08	0.41
35:AR:783:A:OP2	80:AR:3673:OHX:N6	2.53	0.41
35:AR:1016:C:H2'	35:AR:1016:C:O2	2.20	0.41
35:AR:1072:G:H2'	35:AR:1073:U:C6	2.55	0.41
35:AR:1424:C:H2'	35:AR:1425:U:O4'	2.20	0.41
35:AR:1543:G:OP1	48:CP:35:VAL:HG23	2.19	0.41
35:AR:1805:C:H2'	35:AR:1806:A:H8	1.84	0.41
35:AR:2759:U:H5"	35:AR:2760:C:H5'	2.02	0.41
35:AR:2812:C:H2'	35:AR:2813:A:H8	1.84	0.41
35:AR:2897:A:H5"	66:DO:125:LYS:CG	2.42	0.41
35:AR:3279:A:H2'	35:AR:3280:U:H5'	2.01	0.41
35:AR:3385:U:H2'	35:AR:3386:G:H8	1.84	0.41
37:AT:141:C:H2'	37:AT:142:C:C6	2.55	0.41
43:CK:13:PRO:HD2	43:CK:79:ILE:HG21	2.02	0.41
44:CL:93:PRO:HB2	44:CL:125:LEU:HB3	2.02	0.41
47:CO:77:ARG:O	47:CO:81:VAL:HG23	2.20	0.41
51:CS:23:ASN:OD1	51:CS:23:ASN:C	2.63	0.41
53:CU:16:THR:OG1	53:CU:19:VAL:HG12	2.20	0.41
55:CW:28:PHE:CZ	55:CW:33:TYR:HB2	2.55	0.41
32:DF:13:THR:HG21	32:DF:104:LEU:O	2.20	0.41
34:DG:81:ASP:OD1	34:DG:81:ASP:N	2.51	0.41
61:DJ:104:GLN:O	61:DJ:108:GLN:HG3	2.20	0.41
62:DK:40:VAL:O	62:DK:44:VAL:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:DQ:35:LEU:HB2	68:DQ:40:LYS:HG2	2.02	0.41
70:sM:42:ALA:O	70:sM:43:ASP:HB3	2.19	0.41
72:a:44:GLN:HG2	72:a:45:GLU:H	1.85	0.41
76:e:49:ASP:OD1	76:e:49:ASP:N	2.53	0.41
79:h:192:PHE:N	79:h:192:PHE:CD1	2.88	0.41
1:sR:21:U:OP2	80:sR:2001:OHX:N6	2.52	0.41
1:sR:1229:G:O2'	1:sR:1230:A:OP2	2.37	0.41
1:sR:1248:C:C2	1:sR:1249:U:C5	3.08	0.41
1:sR:1422:A:H2'	1:sR:1423:U:C6	2.55	0.41
1:sR:1500:C:P	20:c9:106:GLN:HE21	2.43	0.41
1:sR:1647:U:H2'	1:sR:1648:A:C8	2.55	0.41
1:sR:1754:A:O2'	80:sR:1917:OHX:N1	2.53	0.41
79:Rb:149:ASP:HB2	79:Rb:175:ASP:CA	2.49	0.41
79:Rb:201:THR:CB	79:Rb:242:SER:HA	2.49	0.41
7:s5:73:THR:HA	17:c6:79:TYR:OH	2.19	0.41
7:s5:114:ILE:O	7:s5:117:THR:HG22	2.20	0.41
10:s8:67:TRP:O	10:s8:70:GLU:O	2.38	0.41
13:c1:111:VAL:HA	13:c1:139:VAL:HG12	2.00	0.41
14:c3:132:VAL:HG23	14:c3:134:VAL:HG13	2.02	0.41
16:c5:48:GLY:C	16:c5:50:THR:H	2.27	0.41
22:d1:40:ASP:OD1	22:d1:44:ARG:HG2	2.20	0.41
23:d2:18:GLU:HG3	23:d2:69:LEU:HB3	2.02	0.41
25:d4:10:ARG:O	25:d4:24:VAL:HG12	2.20	0.41
74:d7:56:CYS:O	74:d7:57:GLU:C	2.62	0.41
78:e1:138:ARG:HB2	78:e1:149:LYS:HE2	2.00	0.41
1:A:189:C:C2'	1:A:190:C:H5'	2.50	0.41
1:A:269:G:O6	1:A:287:G:C6	2.73	0.41
1:A:542:A:H5"	1:A:544:A:C8	2.55	0.41
1:A:972:G:O2'	35:1:847:A:N1	2.45	0.41
1:A:980:G:O6	80:A:2122:OHX:N3	2.53	0.41
1:A:992:A:H2	1:A:1012:U:N3	2.10	0.41
1:A:1524:A:H4'	20:U:93:HIS:CD2	2.56	0.41
5:E:164:VAL:H	5:E:164:VAL:HG23	1.65	0.41
6:F:87:MET:HE2	6:F:87:MET:HB2	1.80	0.41
7:G:94:THR:HG23	7:G:114:ILE:CD1	2.44	0.41
13:M:76:VAL:HG21	13:M:87:ARG:CB	2.50	0.41
16:Q:90:ILE:HA	16:Q:107:ILE:CG2	2.50	0.41
17:R:48:VAL:O	17:R:48:VAL:HG22	2.20	0.41
18:S:6:THR:O	18:S:10:LYS:HG3	2.20	0.41
19:T:5:VAL:O	72:a:42:LEU:HD21	2.20	0.41
23:X:7:LEU:HD21	23:X:11:LEU:HD12	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:Z:18:LEU:HD22	25:Z:85:PHE:HD2	1.83	0.41
25:Z:114:ARG:O	25:Z:117:LYS:HG2	2.20	0.41
28:AB:21:ARG:NH1	35:1:1369:A:OP1	2.54	0.41
26:DB:101:PHE:HA	26:DB:107:ARG:CD	2.50	0.41
34:AF:24:ARG:HD3	34:AF:25:TYR:CZ	2.54	0.41
35:1:173:G:H1	35:1:245:U:H3	1.68	0.41
35:1:286:U:H2'	35:1:287:G:C8	2.56	0.41
35:1:355:A:H2'	35:1:356:C:O4'	2.20	0.41
35:1:535:G:H4'	35:1:536:U:OP1	2.19	0.41
35:1:743:C:O2	51:y:141:ARG:HG3	2.20	0.41
35:1:1272:C:H2'	35:1:1273:A:O4'	2.20	0.41
35:1:1495:U:H5	35:1:1835:A:N1	2.18	0.41
35:1:1792:C:O2'	35:1:1794:G:H8	2.04	0.41
35:1:2395:G:H4'	33:k:258:ALA:HB1	2.03	0.41
35:1:2510:U:O2'	35:1:2511:A:H8	2.03	0.41
35:1:2541:U:H1'	35:1:2542:U:H4'	2.02	0.41
35:1:2542:U:H1'	35:1:2543:U:H5	1.85	0.41
35:1:2611:U:H2'	35:1:2612:U:H6	1.82	0.41
35:1:3052:G:OP2	33:k:367:LYS:NZ	2.53	0.41
35:1:3259:U:H5'	35:1:3259:U:H6	1.83	0.41
35:1:3335:A:H2'	35:1:3336:A:C8	2.54	0.41
80:1:3420:OHX:N1	80:1:4129:OHX:N5	2.68	0.41
39:m:104:LEU:HD11	39:m:108:ARG:CZ	2.50	0.41
39:m:215:ASP:OD1	39:m:218:ARG:N	2.54	0.41
46:t:46:ILE:O	46:t:47:ALA:HB2	2.20	0.41
49:w:54:TYR:HD1	49:w:58:LEU:HD11	1.85	0.41
53:0:87:THR:C	53:0:88:HIS:CG	2.98	0.41
57:7:47:ARG:O	57:7:55:PHE:HD2	2.03	0.41
59:AG:31:LYS:NZ	59:AG:35:VAL:O	2.52	0.41
59:AG:59:VAL:O	59:AG:61:GLY:N	2.51	0.41
62:AJ:43:LEU:HD21	62:AJ:47:ILE:HD11	2.02	0.41
64:AL:26:LYS:CD	64:AL:28:ASN:ND2	2.83	0.41
35:AR:391:A:H2'	35:AR:392:G:O4'	2.20	0.41
35:AR:869:G:H2'	35:AR:870:G:C8	2.55	0.41
35:AR:879:U:O2'	50:CR:135:ARG:NH2	2.53	0.41
35:AR:1138:U:H2'	35:AR:1139:G:O4'	2.19	0.41
35:AR:1144:U:H1'	35:AR:1145:G:N7	2.36	0.41
35:AR:1504:A:C5	35:AR:1505:C:C5	3.08	0.41
35:AR:2144:A:H1'	35:AR:2281:A:N6	2.35	0.41
35:AR:2191:U:H2'	35:AR:2192:C:C6	2.54	0.41
35:AR:2367:A:H2'	35:AR:2368:A:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:2384:A:OP1	80:AR:4213:OHX:N6	2.53	0.41
35:AR:2526:C:O2	42:CJ:48:ARG:NH2	2.52	0.41
35:AR:3078:U:OP1	35:AR:3080:G:H5'	2.20	0.41
36:AS:24:A:H2'	36:AS:25:G:C8	2.55	0.41
38:CF:311:HIS:CD2	41:CI:162:PRO:HG2	2.54	0.41
39:CG:155:THR:HA	39:CG:179:ARG:HA	2.03	0.41
39:CG:256:THR:OG1	39:CG:258:LYS:HG3	2.19	0.41
39:CG:271:LYS:HA	39:CG:271:LYS:HD2	1.81	0.41
54:CV:54:HIS:CE1	54:CV:55:LYS:HG2	2.55	0.41
56:CX:117:PRO:HD3	57:CY:25:ASP:O	2.20	0.41
58:CZ:108:LEU:HD23	58:CZ:108:LEU:HA	1.91	0.41
68:DQ:71:ARG:HD2	68:DQ:80:ARG:HD3	2.01	0.41
79:h:82:SER:OG	79:h:92:TRP:NE1	2.46	0.41
79:h:209:THR:OG1	79:h:210:LEU:HD22	2.20	0.41
1:sR:388:G:C6	1:sR:410:A:N1	2.88	0.41
1:sR:472:U:C2	1:sR:473:A:C8	3.08	0.41
1:sR:654:C:C2	1:sR:655:G:C8	3.08	0.41
1:sR:831:U:OP2	1:sR:831:U:H6	2.03	0.41
1:sR:929:A:H5"	1:sR:931:C:H41	1.85	0.41
1:sR:1428:G:H3'	1:sR:1428:G:OP2	2.21	0.41
79:Rb:38:ARG:HA	79:Rb:67:ILE:CD1	2.50	0.41
79:Rb:106:HIS:CD2	79:Rb:132:LYS:HD2	2.54	0.41
79:Rb:174:ASN:CG	79:Rb:198:ASN:HB2	2.45	0.41
2:s0:79:ARG:HG3	2:s0:125:ASP:HB2	2.02	0.41
3:s1:184:LEU:O	3:s1:185:THR:C	2.61	0.41
4:s2:188:LEU:HD23	4:s2:188:LEU:HA	1.76	0.41
5:s3:209:ILE:HG23	18:c7:20:TYR:OH	2.19	0.41
9:s7:185:ILE:HG23	9:s7:186:PRO:HD2	2.01	0.41
11:s9:118:LEU:CG	11:s9:158:PHE:HE1	2.28	0.41
14:c3:130:ARG:HD3	14:c3:138:ASN:O	2.21	0.41
18:c7:53:TYR:CE2	18:c7:57:LEU:HD21	2.54	0.41
73:d6:10:ARG:CG	73:d6:34:LYS:HA	2.50	0.41
74:d7:37:CYS:HB3	74:d7:40:CYS:SG	2.60	0.41
76:d9:6:VAL:O	76:d9:7:TRP:CE3	2.73	0.41
1:A:102:U:O4	1:A:360:A:H2'	2.20	0.41
1:A:169:A:C5'	8:H:176:GLN:HG2	2.50	0.41
1:A:328:A:H2'	1:A:329:G:O4'	2.20	0.41
1:A:397:A:H5"	10:J:47:ARG:HH22	1.85	0.41
1:A:962:C:H2'	1:A:963:A:O4'	2.19	0.41
1:A:1198:G:O3'	76:e:40:ARG:NH2	2.50	0.41
1:A:1331:A:N1	5:E:163:PRO:HG2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1571:C:H5"	1:A:1572:G:OP2	2.19	0.41
2:B:8:ASP:HA	22:W:80:LYS:HE2	2.02	0.41
3:C:221:PRO:O	3:C:222:LYS:C	2.63	0.41
4:D:41:LEU:HD12	4:D:41:LEU:O	2.21	0.41
4:D:188:LEU:O	4:D:191:ALA:HB3	2.20	0.41
5:E:125:TYR:C	5:E:125:TYR:CD1	2.98	0.41
6:F:198:LYS:HZ2	6:F:200:ARG:HG3	1.86	0.41
7:G:58:LEU:HD22	7:G:168:VAL:CG1	2.49	0.41
7:G:168:VAL:HG23	7:G:169:ASN:N	2.35	0.41
8:H:137:ARG:HE	8:H:177:ARG:NE	2.15	0.41
9:I:17:GLU:HG3	9:I:46:ILE:CB	2.49	0.41
10:J:34:ALA:HB2	10:J:56:ARG:CD	2.48	0.41
17:R:38:LEU:HA	17:R:45:ARG:HH12	1.85	0.41
17:R:123:ARG:HD3	17:R:124:PRO:HD3	2.01	0.41
18:S:18:GLU:OE1	18:S:19:ARG:NH1	2.53	0.41
20:U:72:GLY:O	20:U:76:LEU:HD12	2.20	0.41
20:U:128:GLY:C	20:U:130:ARG:N	2.79	0.41
22:W:1:MET:HE2	22:W:13:VAL:HG12	2.02	0.41
22:W:20:THR:O	22:W:21:ASN:HB2	2.21	0.41
25:Z:22:GLN:HA	25:Z:74:LEU:HB3	2.01	0.41
26:AA:10:VAL:C	26:AA:83:THR:HG1	2.28	0.41
26:AA:23:VAL:HG12	26:AA:45:GLY:HA3	2.02	0.41
28:AB:94:ALA:HB3	28:AB:121:VAL:CG1	2.51	0.41
26:DB:85:TYR:HE2	26:DB:129:TRP:CD2	2.37	0.41
28:DC:116:GLY:HA2	28:DC:137:LYS:HE3	2.03	0.41
30:AD:52:ARG:HH12	35:1:1729:A:H5'	1.86	0.41
31:CD:45:VAL:O	31:CD:84:THR:HA	2.20	0.41
32:AE:72:ARG:HH22	32:AE:107:VAL:HG12	1.85	0.41
35:1:1098:A:H4'	54:2:130:ARG:O	2.19	0.41
35:1:1120:A:H2'	35:1:1121:U:C6	2.56	0.41
35:1:1643:A:H2'	35:1:1644:C:C2	2.55	0.41
35:1:2507:C:H2'	35:1:2508:U:C6	2.55	0.41
35:1:2841:G:H2'	35:1:2898:G:N2	2.35	0.41
35:1:3213:A:N7	47:u:124:ARG:NH2	2.68	0.41
80:1:3563:OHX:N1	87:1:4214:HOH:O	2.37	0.41
37:4:2:A:C4	37:4:3:A:C8	3.07	0.41
31:j:27:ALA:O	31:j:28:LYS:HG2	2.20	0.41
33:k:173:GLN:O	33:k:173:GLN:OE1	2.38	0.41
33:k:284:ARG:HH11	33:k:284:ARG:HG2	1.84	0.41
38:l:5:GLN:HA	38:l:20:LEU:O	2.20	0.41
39:m:85:ARG:HH12	39:m:253:PHE:N	2.18	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:o:108:LEU:HD22	41:o:113:SER:O	2.20	0.41
49:w:83:ALA:O	49:w:87:MET:HG3	2.20	0.41
54:2:107:GLU:O	54:2:110:LYS:HG3	2.20	0.41
57:7:18:GLY:HA3	57:7:31:PHE:O	2.20	0.41
62:AJ:29:LYS:HD3	62:AJ:29:LYS:HA	1.79	0.41
62:AJ:54:GLU:HB3	62:AJ:90:MET:CE	2.50	0.41
64:AL:14:LEU:HD22	64:AL:17:ARG:NH2	2.35	0.41
68:AP:3:ASN:HD21	68:AP:95:GLY:C	2.28	0.41
68:AP:13:LYS:H	68:AP:13:LYS:HG2	1.65	0.41
35:AR:986:U:C2	35:AR:987:U:C6	3.08	0.41
35:AR:1213:G:N7	80:AR:3551:OHX:N6	2.68	0.41
35:AR:1393:A:N3	35:AR:1419:A:O2'	2.49	0.41
35:AR:1941:C:H2'	35:AR:1942:U:C6	2.55	0.41
35:AR:2515:A:H5"	48:CP:28:TRP:CD1	2.55	0.41
35:AR:2703:A:OP2	39:CG:23:ARG:NH2	2.47	0.41
35:AR:2723:U:H2'	35:AR:2724:U:C6	2.55	0.41
35:AR:2767:U:H2'	35:AR:2768:U:H6	1.86	0.41
35:AR:3166:C:H2'	35:AR:3167:A:C8	2.56	0.41
36:AS:79:A:H2'	36:AS:80:G:O4'	2.20	0.41
36:AS:110:G:O2'	36:AS:111:U:H5'	2.20	0.41
38:CF:125:ALA:O	38:CF:129:THR:HG23	2.20	0.41
46:CN:77:LEU:HA	46:CN:80:VAL:CG1	2.50	0.41
52:CT:46:LYS:HD2	52:CT:47:ASN:N	2.35	0.41
52:CT:78:TYR:HD1	52:CT:78:TYR:HA	1.76	0.41
57:CY:31:PHE:HB3	57:CY:36:SER:OG	2.21	0.41
70:sM:44:PRO:O	70:sM:47:ALA:HB2	2.20	0.41
73:b:52:ASP:OD1	73:b:52:ASP:N	2.53	0.41
79:h:133:VAL:O	79:h:141:LEU:N	2.41	0.41
79:h:199:ILE:H	79:h:199:ILE:HG13	1.63	0.41
1:sR:12:U:H2'	1:sR:13:C:H6	1.82	0.41
1:sR:25:C:H1'	1:sR:26:A:OP2	2.20	0.41
1:sR:205:U:H2'	1:sR:206:A:H8	1.84	0.41
1:sR:491:C:H3'	1:sR:492:A:H5"	2.03	0.41
1:sR:753:A:C5'	6:s4:221:ARG:HD2	2.50	0.41
1:sR:905:A:H2'	1:sR:906:A:O4'	2.20	0.41
1:sR:1097:U:H1'	1:sR:1098:U:OP2	2.20	0.41
1:sR:1202:A:OP1	80:sR:1984:OHX:N1	2.54	0.41
1:sR:1473:U:O4	7:s5:180:ARG:HG3	2.20	0.41
1:sR:1565:C:O2	19:c8:87:ASN:HA	2.21	0.41
3:s1:166:LYS:HE2	3:s1:166:LYS:HA	2.02	0.41
4:s2:143:TYR:CZ	4:s2:151:PRO:HD3	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:s6:173:PRO:O	8:s6:174:LYS:CB	2.66	0.41
9:s7:125:ILE:HD13	9:s7:125:ILE:HA	1.87	0.41
9:s7:131:PHE:CD2	9:s7:132:PRO:HD3	2.55	0.41
10:s8:25:ARG:O	10:s8:28:GLU:HG2	2.20	0.41
10:s8:114:GLU:OE2	10:s8:120:THR:HG22	2.21	0.41
11:s9:60:LEU:HD21	11:s9:93:LEU:HB2	2.02	0.41
18:c7:20:TYR:HB3	18:c7:24:LEU:HD21	2.03	0.41
19:c8:68:ARG:O	19:c8:72:ILE:HG13	2.20	0.41
19:c8:113:LEU:O	19:c8:117:LYS:HG3	2.20	0.41
21:d0:42:VAL:HG13	21:d0:43:LYS:N	2.35	0.41
21:d0:52:LYS:HE2	21:d0:52:LYS:HB3	1.82	0.41
1:A:40:A:P	11:K:3:ARG:NH2	2.94	0.41
1:A:276:C:HO2'	1:A:277:U:H5"	1.86	0.41
1:A:386:G:H2'	1:A:387:A:C8	2.55	0.41
1:A:635:A:C4	1:A:636:A:C8	3.08	0.41
1:A:702:G:H21	1:A:703:G:H1'	1.82	0.41
1:A:760:A:H2'	1:A:761:G:O4'	2.21	0.41
1:A:1174:C:OP2	19:T:141:THR:HG21	2.20	0.41
1:A:1222:C:H2'	1:A:1223:A:H8	1.86	0.41
1:A:1353:U:H2'	1:A:1354:G:H8	1.85	0.41
1:A:1435:G:H4'	1:A:1436:A:H5'	2.03	0.41
1:A:1495:C:OP1	80:A:1979:OHX:N1	2.53	0.41
1:A:1539:G:H4'	19:T:40:ARG:NH1	2.36	0.41
1:A:1556:A:C4	1:A:1560:U:O2	2.73	0.41
4:D:175:GLY:C	11:K:53:ARG:HH12	2.29	0.41
5:E:5:ILE:HG22	5:E:6:SER:H	1.85	0.41
5:E:45:LYS:HB2	5:E:45:LYS:HE2	1.92	0.41
5:E:54:ARG:HG3	5:E:57:ASP:HB2	2.02	0.41
6:F:141:THR:HG1	6:F:143:ASP:CG	2.28	0.41
7:G:23:VAL:HG11	17:R:58:ASP:CB	2.51	0.41
7:G:161:ASP:O	75:d:44:VAL:HA	2.21	0.41
8:H:25:ARG:HH22	33:k:300:ARG:CD	2.34	0.41
9:I:134:GLU:OE1	9:I:134:GLU:HA	2.20	0.41
9:I:160:GLN:HA	9:I:163:ASP:OD1	2.20	0.41
11:K:139:GLN:HE22	25:Z:63:GLN:NE2	2.19	0.41
12:L:16:PHE:HB2	12:L:76:LEU:CD1	2.46	0.41
17:R:114:ARG:HA	17:R:114:ARG:NE	2.35	0.41
22:W:79:LEU:CD1	22:W:82:VAL:HG11	2.50	0.41
24:Y:93:LEU:HD21	77:f:8:LEU:CD2	2.51	0.41
26:AA:26:VAL:CG2	26:AA:27:LYS:H	2.33	0.41
26:AA:26:VAL:CG2	26:AA:27:LYS:N	2.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AB:69:TRP:CD1	46:t:64:LYS:HG3	2.56	0.41
30:DE:12:GLN:O	30:DE:16:LEU:HG	2.20	0.41
35:1:186:U:OP1	27:9:122:LYS:HE3	2.20	0.41
35:1:437:G:H2'	35:1:438:A:O4'	2.20	0.41
35:1:1101:G:OP2	41:o:196:LYS:HE2	2.20	0.41
35:1:1384:U:H2'	35:1:1385:C:C6	2.56	0.41
35:1:1782:U:H2'	35:1:1783:U:O4'	2.20	0.41
35:1:2203:U:H2'	35:1:2204:C:C6	2.55	0.41
35:1:2562:A:C5	35:1:2563:G:C8	3.09	0.41
35:1:2717:U:OP1	80:1:4147:OHX:N2	2.53	0.41
35:1:2918:G:C2	35:1:2919:A:N7	2.89	0.41
35:1:2943:G:H2'	35:1:2944:U:O4'	2.20	0.41
35:1:3084:C:OP2	80:1:3414:OHX:N5	2.53	0.41
35:1:3273:A:P	40:n:77:ARG:HH12	2.42	0.41
35:1:3317:U:H4'	35:1:3318:G:O5'	2.20	0.41
35:1:3350:C:O2'	35:1:3351:U:P	2.78	0.41
37:4:143:U:H2'	37:4:144:G:O4'	2.20	0.41
38:l:122:THR:HA	38:l:235:LEU:HD13	2.02	0.41
39:m:200:PHE:O	39:m:240:TYR:CD2	2.74	0.41
39:m:283:ALA:O	39:m:286:VAL:HG22	2.21	0.41
42:p:61:GLN:HA	42:p:64:ILE:HG13	2.03	0.41
43:q:100:ASN:OD1	43:q:100:ASN:C	2.64	0.41
49:w:98:ALA:HA	49:w:101:ARG:NH1	2.34	0.41
54:2:17:ARG:HB3	54:2:22:HIS:NE2	2.35	0.41
62:AJ:20:MET:HE2	62:AJ:20:MET:HB3	1.83	0.41
35:AR:26:A:C4	35:AR:27:C:C6	3.08	0.41
35:AR:26:A:C5	35:AR:27:C:C5	3.09	0.41
35:AR:255:A:C2	35:AR:256:G:C5	3.09	0.41
35:AR:850:U:H2'	35:AR:851:C:H6	1.85	0.41
35:AR:867:G:H2'	35:AR:868:C:C6	2.56	0.41
35:AR:996:A:H3'	35:AR:997:A:H8	1.85	0.41
35:AR:2252:A:H2'	35:AR:2253:G:O4'	2.20	0.41
35:AR:2403:G:C8	35:AR:2870:C:H4'	2.55	0.41
35:AR:2439:A:H2'	35:AR:2440:G:C8	2.55	0.41
35:AR:2557:A:C2	42:CJ:38:GLN:HA	2.55	0.41
35:AR:2603:G:O6	80:AR:3405:OHX:N2	2.54	0.41
35:AR:2713:U:H3'	68:DQ:9:LYS:O	2.20	0.41
35:AR:2824:G:H2'	35:AR:2825:C:H6	1.86	0.41
35:AR:2916:U:C1'	56:CX:44:SER:HB3	2.48	0.41
35:AR:3267:A:C4	40:CH:73:GLY:HA3	2.55	0.41
38:CF:8:VAL:HG22	38:CF:20:LEU:HD11	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
38:CF:75:PRO:HG2	38:CF:89:ALA:O	2.21	0.41
41:CI:185:ILE:O	41:CI:189:ILE:HG22	2.21	0.41
42:CJ:24:ASN:N	42:CJ:25:PRO:CD	2.84	0.41
43:CK:49:ASN:CG	43:CK:51:GLN:HG2	2.46	0.41
49:CQ:124:LEU:HD23	49:CQ:124:LEU:HA	1.83	0.41
49:CQ:149:TYR:HB3	49:CQ:152:VAL:HG12	2.03	0.41
51:CS:110:ALA:O	51:CS:114:ILE:HG13	2.21	0.41
54:CV:55:LYS:HG3	54:CV:56:PHE:N	2.35	0.41
58:CZ:82:LEU:O	58:CZ:124:VAL:HG22	2.20	0.41
32:DF:81:GLU:C	32:DF:82:GLU:HG3	2.46	0.41
59:DH:8:TYR:HB3	59:DH:101:PHE:CD1	2.55	0.41
69:DR:32:GLN:O	69:DR:37:TYR:OH	2.35	0.41
71:p0:28:VAL:O	71:p0:84:VAL:HG13	2.20	0.41
79:h:19:TRP:CE2	79:h:306:THR:HG22	2.56	0.41
1:sR:327:U:H2'	1:sR:328:A:C8	2.55	0.41
1:sR:480:G:C4	1:sR:509:G:C2	3.09	0.41
1:sR:568:G:C4'	24:d3:90:ASP:HB2	2.30	0.41
1:sR:956:C:OP2	14:c3:12:SER:HB3	2.21	0.41
1:sR:1014:G:H2'	1:sR:1015:U:O4'	2.21	0.41
1:sR:1178:G:H2'	1:sR:1179:G:O4'	2.19	0.41
79:Rb:20:VAL:HG21	79:Rb:310:ILE:HG12	2.02	0.41
79:Rb:25:THR:HG21	79:Rb:295:SER:HA	2.01	0.41
79:Rb:118:LYS:H	79:Rb:118:LYS:HG2	1.63	0.41
2:s0:20:ALA:HB1	2:s0:169:SER:HA	2.02	0.41
2:s0:64:ILE:HA	2:s0:120:LEU:HD13	2.02	0.41
4:s2:40:LYS:HE3	4:s2:40:LYS:HB2	1.70	0.41
4:s2:229:LEU:HD12	22:d1:23:ILE:HD11	2.01	0.41
5:s3:59:LEU:CD1	5:s3:88:ALA:HB2	2.50	0.41
7:s5:48:PHE:CD2	7:s5:67:PRO:HA	2.56	0.41
7:s5:216:GLU:HG3	7:s5:219:ARG:HD3	2.01	0.41
9:s7:76:LYS:HA	9:s7:79:ARG:CG	2.50	0.41
10:s8:38:ILE:HD11	10:s8:80:GLY:HA2	2.01	0.41
10:s8:121:LEU:HD12	10:s8:157:GLU:HG3	2.02	0.41
11:s9:108:ARG:HD2	11:s9:145:SER:HA	2.02	0.41
11:s9:109:LEU:HB2	11:s9:146:PHE:HB3	2.03	0.41
13:c1:39:GLY:O	13:c1:42:PHE:HD2	2.03	0.41
14:c3:93:LYS:HB2	14:c3:93:LYS:HE3	1.79	0.41
20:c9:6:VAL:HG21	20:c9:132:LEU:HB3	2.02	0.41
20:c9:61:VAL:HG13	20:c9:76:LEU:HD21	2.02	0.41
20:c9:111:ILE:HG22	20:c9:113:ILE:HG13	2.00	0.41
23:d2:106:THR:HG22	23:d2:122:SER:O	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:d4:41:ARG:HH21	25:d4:53:ASP:HA	1.84	0.41
1:A:1759:C:H2'	1:A:1760:G:C8	2.55	0.41
4:D:222:TYR:OH	22:W:11:LEU:O	2.38	0.41
5:E:40:ARG:HD2	21:V:110:PRO:HG3	2.02	0.41
6:F:139:VAL:HG13	6:F:150:PRO:HG3	2.03	0.41
7:G:184:PHE:CZ	7:G:185:ARG:HD2	2.56	0.41
9:I:5:GLN:OE1	9:I:5:GLN:N	2.37	0.41
10:J:123:LYS:HA	10:J:123:LYS:HD2	1.75	0.41
14:O:146:ALA:O	14:O:147:SER:C	2.64	0.41
16:Q:125:PRO:HG3	19:T:129:TRP:CH2	2.56	0.41
19:T:26:ILE:HG12	19:T:27:LYS:N	2.35	0.41
20:U:15:ILE:HG23	20:U:59:ALA:CB	2.49	0.41
21:V:22:ILE:HD13	21:V:118:VAL:HG12	2.02	0.41
23:X:31:SER:O	23:X:34:ILE:HB	2.20	0.41
28:AB:71:PRO:HB2	28:AB:109:TYR:HA	2.02	0.41
26:DB:26:VAL:HG21	26:DB:96:VAL:CG2	2.50	0.41
31:CD:84:THR:HG1	35:AR:2554:A:N6	2.19	0.41
35:1:37:U:O3'	35:1:935:U:H4'	2.20	0.41
35:1:44:U:OP1	48:v:85:THR:HG23	2.20	0.41
35:1:65:A:C4	35:1:110:G:N7	2.89	0.41
35:1:126:U:H5"	48:v:144:ARG:NH1	2.35	0.41
35:1:139:G:H2'	35:1:140:C:O4'	2.20	0.41
35:1:359:U:H4'	35:1:817:A:N6	2.36	0.41
35:1:1132:C:H2'	35:1:1133:A:C8	2.56	0.41
35:1:1231:A:N1	35:1:1279:C:N4	2.69	0.41
35:1:1274:A:C5	35:1:1275:C:C5	3.08	0.41
35:1:1312:C:H2'	35:1:1313:G:O4'	2.20	0.41
35:1:1815:U:O3'	35:1:1816:A:H4'	2.21	0.41
35:1:1887:A:OP2	80:1:4128:OHX:N3	2.53	0.41
35:1:2225:U:H2'	35:1:2226:U:H6	1.83	0.41
35:1:2896:A:H4'	66:AN:95:VAL:HG11	2.02	0.41
35:1:3016:A:H2'	35:1:3017:A:C8	2.54	0.41
35:1:3041:U:H2'	35:1:3042:U:C6	2.56	0.41
35:1:3190:C:H2'	35:1:3191:G:H8	1.86	0.41
35:1:3275:U:H5"	59:AG:68:TRP:HZ2	1.86	0.41
35:1:3308:C:O2'	50:x:69:ARG:O	2.32	0.41
31:j:70:ARG:HG2	31:j:71:LEU:H	1.86	0.41
31:j:117:GLU:OE1	31:j:163:ARG:HD3	2.20	0.41
39:m:95:TRP:CZ2	39:m:161:GLY:HA2	2.55	0.41
39:m:135:VAL:HG23	39:m:138:GLY:HA3	2.02	0.41
41:o:86:VAL:HA	41:o:136:TYR:HB3	2.01	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:p:83:ASP:OD1	42:p:86:THR:HG22	2.20	0.41
44:r:47:PRO:CD	44:r:141:LYS:HG2	2.51	0.41
46:t:47:ALA:HB1	46:t:48:PRO:HD2	2.02	0.41
46:t:185:LYS:HA	46:t:188:ARG:CZ	2.51	0.41
48:v:37:HIS:NE2	48:v:63:ARG:HD2	2.36	0.41
50:x:51:VAL:HA	50:x:56:ARG:O	2.20	0.41
53:0:78:TRP:O	53:0:124:LEU:N	2.44	0.41
54:2:40:VAL:HB	54:2:96:ILE:HG23	2.02	0.41
56:6:23:MET:HE1	56:6:78:VAL:HG22	2.03	0.41
56:6:40:LYS:HB2	56:6:57:MET:O	2.21	0.41
57:7:31:PHE:HB3	57:7:36:SER:OG	2.21	0.41
57:7:49:ILE:O	57:7:52:THR:HG22	2.19	0.41
58:8:117:ASN:OD1	58:8:119:THR:OG1	2.30	0.41
59:AG:29:LEU:HD22	59:AG:75:HIS:CG	2.55	0.41
59:AG:90:PRO:O	59:AG:93:THR:OG1	2.26	0.41
60:AH:3:GLN:HB3	60:AH:30:LEU:HD12	2.02	0.41
68:AP:76:LYS:HE2	68:AP:76:LYS:HB2	1.93	0.41
35:AR:120:G:N7	42:CJ:128:LYS:HD3	2.36	0.41
35:AR:294:U:H4'	62:DK:77:LEU:HD23	2.02	0.41
35:AR:1155:C:O2'	35:AR:1197:A:N1	2.38	0.41
35:AR:1282:G:H4'	71:p0:82:GLY:C	2.46	0.41
35:AR:1465:A:H2'	35:AR:1466:G:O4'	2.19	0.41
35:AR:1570:U:O3'	35:AR:1571:A:O4'	2.39	0.41
35:AR:1639:C:O2'	35:AR:1640:G:H5'	2.21	0.41
35:AR:2847:A:N7	35:AR:2898:G:C6	2.88	0.41
35:AR:2869:U:O2'	35:AR:2873:U:OP1	2.35	0.41
35:AR:2964:G:N2	35:AR:2967:A:OP2	2.40	0.41
36:AS:33:U:H2'	36:AS:34:C:O4'	2.20	0.41
38:CF:148:ILE:HA	38:CF:149:PRO:C	2.45	0.41
41:CI:88:ARG:NH2	41:CI:92:ILE:HA	2.35	0.41
41:CI:158:LYS:CG	41:CI:159:GLN:N	2.82	0.41
42:CJ:230:LYS:HD3	42:CJ:230:LYS:O	2.19	0.41
44:CL:182:LEU:HA	44:CL:182:LEU:HD23	1.64	0.41
45:CM:166:LYS:C	45:CM:167:TYR:HD1	2.29	0.41
46:CN:46:ILE:HG22	46:CN:47:ALA:N	2.34	0.41
50:CR:18:ARG:HG3	50:CR:147:GLU:HB3	2.01	0.41
50:CR:52:LEU:HD11	50:CR:89:LYS:HG3	2.03	0.41
50:CR:119:VAL:HG23	50:CR:145:HIS:O	2.20	0.41
58:CZ:62:VAL:HG12	58:CZ:63:ILE:HD13	2.03	0.41
34:DG:32:TRP:CH2	34:DG:52:GLN:HG2	2.55	0.41
59:DH:12:LYS:HA	59:DH:12:LYS:HD3	1.75	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:DK:84:LYS:O	62:DK:87:VAL:HG12	2.20	0.41
69:DR:42:CYS:SG	69:DR:44:LYS:HG3	2.61	0.41
79:h:151:VAL:O	79:h:151:VAL:HG23	2.21	0.41
1:sR:629:U:OP1	14:c3:127:ARG:NH2	2.51	0.41
1:sR:633:U:H2'	1:sR:634:G:O4'	2.20	0.41
1:sR:1326:A:O3'	5:s3:156:PHE:HE2	2.02	0.41
1:sR:1413:U:H4'	1:sR:1414:U:OP2	2.21	0.41
1:sR:1417:A:H5"	17:c6:125:GLU:CD	2.45	0.41
1:sR:1714:A:H2'	1:sR:1715:G:H8	1.84	0.41
1:sR:1733:C:C2	1:sR:1734:U:C5	3.08	0.41
1:sR:1787:C:H2'	1:sR:1788:G:H8	1.84	0.41
79:Rb:172:ALA:HB1	79:Rb:199:ILE:CD1	2.49	0.41
3:s1:61:LEU:HA	3:s1:64:ARG:HD2	2.01	0.41
4:s2:40:LYS:CG	4:s2:247:ALA:HB1	2.44	0.41
4:s2:67:GLN:OE1	4:s2:67:GLN:N	2.30	0.41
5:s3:179:GLN:CG	5:s3:180:GLY:H	2.33	0.41
6:s4:77:ARG:HD3	6:s4:77:ARG:HA	1.91	0.41
7:s5:91:GLU:HA	7:s5:94:THR:OG1	2.20	0.41
7:s5:192:GLU:CD	72:d5:63:SER:HG	2.25	0.41
10:s8:67:TRP:HA	10:s8:183:ILE:HG22	2.03	0.41
11:s9:59:LEU:HD23	11:s9:59:LEU:HA	1.70	0.41
18:c7:13:SER:CB	18:c7:54:THR:HG22	2.51	0.41
20:c9:37:VAL:HG22	20:c9:39:THR:H	1.84	0.41
22:d1:38:LYS:HA	22:d1:38:LYS:HD2	1.68	0.41
23:d2:73:GLY:HA3	23:d2:128:PHE:CE1	2.55	0.41
74:d7:20:LYS:HG2	74:d7:21:LEU:N	2.36	0.41
1:A:21:U:H2'	1:A:22:A:C8	2.55	0.41
1:A:478:A:N6	1:A:539:G:H1	2.18	0.41
1:A:534:A:N3	1:A:534:A:H2'	2.35	0.41
1:A:566:C:O2'	77:f:10:ARG:HG2	2.20	0.41
1:A:1424:A:OP2	5:E:151:LYS:HE2	2.21	0.41
1:A:1581:C:O2'	1:A:1582:U:H5'	2.21	0.41
1:A:1758:U:O4	80:A:2114:OHX:N1	2.53	0.41
2:B:198:MET:CE	18:S:86:PRO:HB3	2.50	0.41
4:D:143:TYR:HE2	4:D:147:ASN:C	2.28	0.41
5:E:192:PRO:HB2	5:E:201:ALA:HA	2.03	0.41
6:F:154:ILE:HD11	6:F:160:VAL:CG1	2.51	0.41
6:F:158:ASP:OD2	6:F:174:LYS:NZ	2.53	0.41
11:K:58:ASP:O	11:K:61:THR:HG22	2.21	0.41
12:L:11:ILE:HD11	12:L:37:THR:OG1	2.20	0.41
12:L:54:TYR:CD1	12:L:54:TYR:N	2.88	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:71:GLU:H	12:L:71:GLU:HG2	1.65	0.41
14:O:16:ILE:HB	23:X:57:ARG:NH2	2.35	0.41
14:O:93:LYS:O	14:O:96:VAL:HG22	2.21	0.41
18:S:47:ARG:NH1	18:S:48:ASN:HD22	2.16	0.41
19:T:35:ILE:HB	19:T:38:VAL:CG1	2.51	0.41
24:Y:43:PHE:HZ	24:Y:104:LEU:HB2	1.86	0.41
24:Y:79:ASN:HD21	24:Y:81:LYS:HE3	1.85	0.41
25:Z:91:LEU:HB3	25:Z:97:ALA:HB2	2.01	0.41
26:DB:104:PRO:C	26:DB:107:ARG:H	2.28	0.41
28:DC:86:LYS:O	28:DC:90:TYR:CD2	2.74	0.41
31:CD:44:ILE:HG12	31:CD:87:PHE:CE1	2.54	0.41
29:DD:35:VAL:HA	54:CV:66:ASN:CG	2.46	0.41
33:CE:79:VAL:HG21	33:CE:338:LEU:HD11	2.02	0.41
30:DE:13:LYS:HE2	30:DE:103:THR:HG21	2.01	0.41
35:1:244:G:OP1	46:t:132:ALA:HB3	2.21	0.41
35:1:439:C:H3'	35:1:440:A:N7	2.35	0.41
35:1:575:G:H2'	35:1:576:C:C6	2.55	0.41
35:1:1112:A:OP1	46:t:5:LYS:NZ	2.39	0.41
35:1:1948:G:C2	35:1:1949:G:N7	2.88	0.41
35:1:2778:G:C2	35:1:2779:A:N7	2.89	0.41
35:1:2856:G:H2'	35:1:2857:C:C6	2.55	0.41
35:1:2944:U:H1'	33:k:251:CYS:SG	2.61	0.41
35:1:3165:A:O2'	35:1:3166:C:H5'	2.20	0.41
35:1:3173:G:O6	59:AG:92:LYS:HE3	2.21	0.41
36:3:49:G:OP1	39:m:226:TYR:HE1	2.03	0.41
37:4:63:G:H22	37:4:97:A:H2	1.68	0.41
39:m:86:TYR:OH	39:m:250:ASP:O	2.30	0.41
45:s:23:VAL:O	45:s:65:ILE:O	2.38	0.41
45:s:106:ILE:HD13	45:s:112:LEU:HD21	2.01	0.41
47:u:126:GLN:O	47:u:130:THR:HG23	2.20	0.41
50:x:115:SER:OG	50:x:149:VAL:HG23	2.21	0.41
59:AG:15:SER:HA	59:AG:94:PHE:CE1	2.56	0.41
61:AI:83:LYS:O	61:AI:84:LYS:C	2.63	0.41
62:AJ:11:LEU:HA	62:AJ:11:LEU:HD23	1.74	0.41
62:AJ:89:GLU:O	62:AJ:93:ILE:HD12	2.20	0.41
68:AP:105:GLN:O	68:AP:106:PHE:C	2.64	0.41
35:AR:409:A:H2	35:AR:1441:G:N3	2.19	0.41
35:AR:694:C:H4'	38:CF:232:SER:O	2.21	0.41
35:AR:778:U:O4	80:AR:3590:OHX:N4	2.54	0.41
35:AR:916:G:H4'	35:AR:917:A:O5'	2.21	0.41
35:AR:1046:A:H2'	35:AR:1049:C:H5	1.83	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1334:U:C1'	41:CI:208:SER:HB2	2.51	0.41
35:AR:1448:U:H5"	50:CR:66:SER:HB2	2.02	0.41
35:AR:1804:A:H2'	35:AR:1805:C:H6	1.85	0.41
35:AR:2350:C:O3'	50:CR:68:GLY:HA3	2.19	0.41
35:AR:2351:U:H2'	35:AR:2352:A:H8	1.86	0.41
35:AR:2571:U:H4'	35:AR:2572:C:OP1	2.20	0.41
36:AS:33:U:C2	39:CG:207:TYR:CD1	3.09	0.41
36:AS:100:C:OP2	53:CU:52:LYS:NZ	2.52	0.41
39:CG:80:SER:O	39:CG:83:LEU:HG	2.20	0.41
43:CK:41:ILE:HD12	43:CK:41:ILE:HA	1.84	0.41
46:CN:80:VAL:HG21	46:CN:87:ALA:HA	2.02	0.41
46:CN:184:GLU:H	46:CN:184:GLU:HG2	1.72	0.41
46:CN:190:LYS:HA	46:CN:190:LYS:CE	2.49	0.41
51:CS:70:ALA:O	51:CS:73:GLN:HG3	2.21	0.41
53:CU:107:TYR:CE2	53:CU:123:ILE:HD11	2.55	0.41
54:CV:17:ARG:HG3	54:CV:22:HIS:HA	2.02	0.41
62:DK:35:ASN:HA	62:DK:38:LYS:HG3	2.03	0.41
65:DN:23:LEU:HD13	65:DN:24:PRO:O	2.21	0.41
68:DQ:40:LYS:HE3	68:DQ:44:ASP:OD2	2.21	0.41
73:b:23:CYS:HB3	73:b:74:CYS:HB3	2.02	0.41
79:h:20:VAL:HG21	79:h:310:ILE:CG2	2.51	0.41
79:h:68:VAL:HG12	79:h:84:SER:HB2	2.02	0.41
79:h:211:ILE:HD12	79:h:223:TRP:O	2.21	0.41
1:sR:219:A:C2	1:sR:843:U:H1'	2.54	0.41
1:sR:298:C:H5"	6:s4:38:LEU:HB2	2.02	0.41
1:sR:336:G:P	13:c1:129:ARG:HH21	2.43	0.41
1:sR:461:G:H2'	1:sR:462:G:H8	1.84	0.41
1:sR:845:G:N1	1:sR:846:G:O6	2.54	0.41
1:sR:865:A:OP1	23:d2:28:ARG:NH2	2.53	0.41
1:sR:952:A:OP1	14:c3:94:LYS:HE3	2.20	0.41
1:sR:1625:C:H2'	1:sR:1626:U:C6	2.54	0.41
79:Rb:6:VAL:C	79:Rb:7:LEU:HD12	2.45	0.41
79:Rb:198:ASN:OD1	79:Rb:216:LYS:HG3	2.20	0.41
3:s1:70:LEU:HA	3:s1:84:ILE:HD11	2.02	0.41
3:s1:207:LEU:HA	3:s1:207:LEU:HD23	1.54	0.41
4:s2:95:ARG:HE	4:s2:95:ARG:HB3	1.61	0.41
4:s2:162:CYS:H	4:s2:213:ALA:HB2	1.84	0.41
4:s2:179:VAL:CG1	4:s2:197:TYR:HA	2.51	0.41
5:s3:59:LEU:CD1	5:s3:66:ILE:HG21	2.51	0.41
10:s8:104:ILE:O	10:s8:164:ARG:HA	2.21	0.41
11:s9:82:ARG:HH21	11:s9:149:ARG:HD3	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:s9:139:GLN:OE1	11:s9:140:ILE:N	2.54	0.41
16:c5:53:PRO:HB2	16:c5:57:MET:HG2	2.02	0.41
17:c6:30:LYS:HA	17:c6:34:SER:O	2.20	0.41
75:d8:18:ARG:NH1	75:d8:26:THR:HG22	2.35	0.41
1:A:513:U:C1'	11:K:131:GLN:HE21	2.33	0.41
1:A:780:A:C5	25:Z:8:ARG:NH2	2.89	0.41
1:A:872:G:N2	1:A:1047:G:H4'	2.36	0.41
1:A:898:A:C2	1:A:915:A:C6	3.09	0.41
1:A:926:A:H2	15:P:125:SER:HB2	1.86	0.41
1:A:1062:A:H2'	1:A:1063:U:O4'	2.20	0.41
1:A:1199:G:O6	21:V:67:THR:OG1	2.29	0.41
1:A:1445:G:C5	78:g:91:ILE:HB	2.56	0.41
1:A:1584:G:H3'	17:R:123:ARG:O	2.20	0.41
1:A:1757:G:O6	80:A:2114:OHX:N3	2.54	0.41
4:D:175:GLY:N	4:D:195:ASP:OD2	2.53	0.41
6:F:155:LYS:HA	6:F:155:LYS:HD2	1.58	0.41
7:G:37:GLN:HA	17:R:53:LEU:HB3	2.02	0.41
9:I:12:ALA:N	9:I:13:PRO:CD	2.84	0.41
13:M:67:ARG:O	13:M:67:ARG:NH1	2.46	0.41
13:M:69:LYS:HB3	13:M:71:LEU:HD13	2.03	0.41
20:U:128:GLY:C	20:U:130:ARG:H	2.28	0.41
25:Z:82:ALA:O	25:Z:86:GLU:CB	2.67	0.41
29:AC:58:LYS:O	29:AC:58:LYS:HD3	2.21	0.41
28:DC:13:GLY:HA2	35:AR:943:U:H3'	2.02	0.41
29:DD:33:LYS:HA	29:DD:33:LYS:HD2	1.60	0.41
35:1:1349:G:H3'	35:1:1349:G:N3	2.36	0.41
35:1:1419:A:H5"	38:l:193:LYS:HZ3	1.86	0.41
35:1:1894:U:O2'	35:1:3054:U:H5"	2.20	0.41
35:1:2359:C:H2'	35:1:2360:C:C6	2.56	0.41
35:1:2622:C:H2'	35:1:2623:G:O4'	2.20	0.41
35:1:2645:G:OP2	44:r:117:GLY:HA2	2.20	0.41
35:1:3007:U:OP1	49:w:73:PHE:HA	2.21	0.41
35:1:3151:U:H4'	35:1:3294:A:C1'	2.47	0.41
35:1:3218:A:H5"	35:1:3219:G:C5	2.55	0.41
35:1:3279:A:N7	59:AG:54:ARG:NH2	2.67	0.41
80:1:3404:OHX:N2	63:AK:46:SER:OG	2.54	0.41
37:4:53:A:H2'	37:4:54:A:H8	1.86	0.41
37:4:63:G:H2'	37:4:63:G:N3	2.35	0.41
39:m:153:THR:HG23	39:m:160:PHE:CZ	2.55	0.41
39:m:186:GLU:HG2	39:m:187:THR:N	2.35	0.41
39:m:197:SER:OG	39:m:202:GLY:HA3	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:m:204:VAL:O	39:m:208:MET:HG3	2.20	0.41
39:m:277:LEU:HG	39:m:281:GLU:OE1	2.21	0.41
40:n:35:VAL:CG1	40:n:90:LYS:HE2	2.50	0.41
41:o:190:THR:O	41:o:191:VAL:C	2.62	0.41
42:p:72:PRO:HG3	48:v:18:VAL:HA	2.03	0.41
43:q:129:ARG:O	43:q:132:VAL:HG22	2.21	0.41
45:s:16:LYS:H	45:s:130:VAL:HG13	1.85	0.41
48:v:51:LEU:HD23	48:v:51:LEU:HA	1.85	0.41
53:0:14:LEU:HD23	53:0:14:LEU:HA	1.86	0.41
56:6:4:ASN:H	56:6:40:LYS:HZ1	1.67	0.41
56:6:20:GLY:HA2	56:6:35:TYR:CE1	2.56	0.41
58:8:34:LEU:HD13	58:8:35:PRO:O	2.21	0.41
61:AI:31:LEU:HD22	61:AI:44:ILE:HA	2.03	0.41
35:AR:596:C:OP1	41:CI:33:ARG:NH1	2.54	0.41
35:AR:792:G:N7	80:AR:4235:OHX:N2	2.69	0.41
35:AR:948:C:H2'	35:AR:949:C:H6	1.86	0.41
35:AR:1027:A:C5	35:AR:1029:G:N3	2.89	0.41
35:AR:1049:C:H2'	35:AR:1050:U:C6	2.55	0.41
35:AR:1066:G:H2'	35:AR:1067:U:C6	2.56	0.41
35:AR:1210:U:H2'	35:AR:1211:U:C6	2.56	0.41
35:AR:1602:A:H2'	35:AR:1603:A:C8	2.55	0.41
35:AR:1718:G:H2'	35:AR:1719:G:H8	1.86	0.41
35:AR:2538:U:H4'	35:AR:2539:C:OP2	2.20	0.41
35:AR:2896:A:OP1	66:DO:102:ARG:NE	2.51	0.41
35:AR:3041:U:H2'	35:AR:3042:U:H6	1.85	0.41
38:CF:174:ALA:C	38:CF:178:LEU:HD12	2.45	0.41
40:CH:152:THR:OG1	40:CH:155:LEU:HB2	2.21	0.41
41:CI:37:ASN:O	41:CI:41:ARG:HG3	2.21	0.41
42:CJ:97:TYR:CD1	42:CJ:97:TYR:N	2.89	0.41
42:CJ:106:LYS:C	42:CJ:108:ARG:N	2.79	0.41
44:CL:200:LEU:HG	44:CL:201:SER:N	2.35	0.41
45:CM:153:LYS:HD2	45:CM:154:THR:HG23	2.02	0.41
53:CU:148:LEU:HD12	53:CU:149:LYS:H	1.85	0.41
55:CW:55:THR:HB	55:CW:66:VAL:CG1	2.50	0.41
56:CX:40:LYS:HE3	56:CX:59:MET:HE3	2.03	0.41
58:CZ:57:LEU:HD12	58:CZ:57:LEU:HA	1.67	0.41
73:b:59:TYR:O	73:b:61:GLU:N	2.54	0.41
77:f:50:VAL:O	77:f:52:GLY:N	2.49	0.41
1:sR:177:U:O2'	1:sR:178:U:H6	2.04	0.41
1:sR:330:G:OP2	10:s8:172:ARG:HD2	2.20	0.41
1:sR:1078:C:H2'	1:sR:1079:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:1475:A:H2'	1:sR:1476:C:C6	2.56	0.41
1:sR:1528:U:H2'	1:sR:1529:C:C6	2.55	0.41
1:sR:1740:A:H2'	1:sR:1741:U:H6	1.85	0.41
79:Rb:22:SER:HG	79:Rb:70:ASP:HA	1.85	0.41
79:Rb:115:ILE:HG23	79:Rb:122:ILE:HB	2.02	0.41
79:Rb:283:LYS:HA	79:Rb:283:LYS:HD2	1.76	0.41
2:s0:115:PHE:CD1	2:s0:116:LYS:N	2.88	0.41
2:s0:139:VAL:HG22	2:s0:139:VAL:O	2.21	0.41
2:s0:200:ASP:HA	2:s0:203:PHE:CE2	2.56	0.41
2:s0:200:ASP:OD1	2:s0:203:PHE:HE2	2.04	0.41
4:s2:140:ARG:NH1	22:d1:10:GLU:OE1	2.53	0.41
6:s4:208:VAL:HG21	6:s4:225:VAL:CG2	2.51	0.41
11:s9:13:SER:O	11:s9:43:TYR:HB3	2.21	0.41
12:c0:54:TYR:HB3	12:c0:72:GLY:CA	2.50	0.41
14:c3:18:TYR:HD1	14:c3:18:TYR:O	2.03	0.41
16:c5:50:THR:O	16:c5:51:SER:C	2.63	0.41
20:c9:116:ILE:HD12	20:c9:116:ILE:H	1.86	0.41
22:d1:9:VAL:O	22:d1:10:GLU:HB3	2.20	0.41
1:A:304:U:H2'	1:A:305:C:C6	2.55	0.41
1:A:637:C:OP1	23:X:32:LYS:HB3	2.21	0.41
1:A:808:U:C4	1:A:809:A:N6	2.88	0.41
1:A:1387:G:OP1	18:S:32:LYS:NZ	2.54	0.41
1:A:1586:A:P	17:R:135:ARG:H	2.41	0.41
2:B:64:ILE:HG13	2:B:64:ILE:H	1.70	0.41
5:E:3:ALA:O	5:E:5:ILE:HD12	2.20	0.41
6:F:11:ARG:O	6:F:12:LEU:HB2	2.21	0.41
6:F:231:GLN:C	6:F:233:LYS:H	2.29	0.41
10:J:195:ARG:HA	10:J:195:ARG:HD3	1.67	0.41
13:M:4:GLU:N	13:M:4:GLU:OE1	2.54	0.41
13:M:129:ARG:O	13:M:131:ILE:HG23	2.21	0.41
16:Q:97:TYR:HE1	16:Q:99:GLY:C	2.28	0.41
16:Q:130:ARG:NH1	70:i:74:LYS:HD3	2.35	0.41
18:S:72:LYS:HA	18:S:72:LYS:HD2	1.92	0.41
19:T:11:PHE:HE2	72:a:41:ILE:HG21	1.85	0.41
19:T:120:ARG:CZ	70:i:61:ILE:HD11	2.50	0.41
20:U:65:ILE:HD13	20:U:71:VAL:CG2	2.46	0.41
20:U:66:TYR:CD1	20:U:66:TYR:C	2.99	0.41
20:U:99:SER:O	20:U:103:LYS:HG2	2.19	0.41
26:AA:14:VAL:HB	60:AH:86:LYS:HG3	2.01	0.41
26:AA:121:ARG:O	26:AA:125:GLY:HA2	2.20	0.41
26:AA:134:LEU:HD11	60:AH:92:ALA:HB3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:AB:120:ASN:C	28:AB:120:ASN:HD22	2.28	0.41
35:1:167:U:H2'	35:1:168:U:H6	1.86	0.41
35:1:796:U:H2'	35:1:797:U:C6	2.56	0.41
35:1:995:U:C2	35:1:996:A:C8	3.09	0.41
35:1:1047:A:H2'	35:1:1048:A:C8	2.56	0.41
35:1:1404:G:C6	35:1:1408:G:C6	3.09	0.41
35:1:1763:U:H5'	35:1:1764:U:OP2	2.20	0.41
35:1:1807:G:C6	35:1:1808:G:N1	2.88	0.41
35:1:1915:A:H2'	35:1:1916:U:H6	1.86	0.41
35:1:1932:A:H5'	35:1:1933:A:OP2	2.20	0.41
35:1:2096:A:H8	35:1:2096:A:O5'	2.03	0.41
35:1:2667:A:H5"	70:i:33:LYS:HE3	2.03	0.41
35:1:3330:A:H4'	33:k:365:PHE:O	2.21	0.41
37:4:127:U:H2'	37:4:128:U:H5'	2.03	0.41
37:4:151:C:C4	58:8:24:LEU:HD21	2.56	0.41
43:q:106:LYS:N	43:q:109:ALA:HB3	2.35	0.41
44:r:39:LYS:HG3	44:r:40:LYS:HE2	2.03	0.41
47:u:115:PHE:O	47:u:119:GLN:HG3	2.20	0.41
50:x:141:SER:O	50:x:143:PRO:HD3	2.21	0.41
51:y:19:PRO:HB3	51:y:53:PHE:HA	2.01	0.41
51:y:157:PRO:HA	51:y:186:VAL:HG12	2.01	0.41
53:0:77:VAL:HG11	53:0:106:LEU:HD22	2.01	0.41
55:5:29:ASP:OD1	55:5:32:SER:HB2	2.20	0.41
55:5:59:ASP:HB3	55:5:62:VAL:HG22	2.03	0.41
27:9:74:TYR:CD1	27:9:77:LYS:HB2	2.56	0.41
62:AJ:99:ARG:CG	62:AJ:100:HIS:H	2.27	0.41
70:i:138:ALA:HB3	70:i:139:GLU:OE1	2.20	0.41
35:AR:256:G:H2'	35:AR:257:U:H6	1.85	0.41
35:AR:696:C:OP2	38:CF:119:ARG:NH2	2.49	0.41
35:AR:848:A:C5	35:AR:849:C:H1'	2.55	0.41
35:AR:1392:G:H1'	35:AR:1418:A:N6	2.36	0.41
35:AR:1643:A:OP2	60:DI:68:THR:HG21	2.21	0.41
35:AR:1751:G:H5"	64:DM:26:LYS:HE3	2.02	0.41
35:AR:1954:G:H2'	35:AR:1955:U:C5	2.56	0.41
35:AR:2366:C:H2'	35:AR:2367:A:H8	1.85	0.41
35:AR:2508:U:H2'	35:AR:2509:U:C5	2.56	0.41
35:AR:2534:G:O2'	35:AR:2535:A:H8	2.04	0.41
35:AR:2651:G:H4'	35:AR:2652:U:OP2	2.21	0.41
35:AR:3041:U:H2'	35:AR:3042:U:C6	2.56	0.41
38:CF:82:THR:C	38:CF:84:ARG:H	2.28	0.41
38:CF:99:MET:HE1	38:CF:103:THR:HG23	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:CG:49:TYR:HB3	39:CG:144:VAL:HG22	2.03	0.41
39:CG:276:LYS:HG3	39:CG:277:LEU:H	1.86	0.41
40:CH:54:TYR:OH	40:CH:57:HIS:HB2	2.20	0.41
43:CK:171:ASP:OD1	43:CK:173:ARG:HB2	2.20	0.41
44:CL:36:LEU:HD12	44:CL:36:LEU:HA	1.74	0.41
48:CP:175:ASN:HB2	48:CP:180:PHE:CE2	2.55	0.41
56:CX:93:LEU:HA	57:CY:20:LEU:O	2.20	0.41
71:p0:36:GLN:O	71:p0:36:GLN:HG3	2.20	0.41
73:b:79:ILE:CA	73:b:84:VAL:HG11	2.36	0.41
76:e:9:SER:OG	76:e:12:ARG:NH2	2.53	0.41
78:g:126:CYS:SG	78:g:130:VAL:HG11	2.61	0.41
79:h:121:MET:HE1	79:h:183:LEU:HB3	2.03	0.41
1:sR:152:U:O4'	8:s6:13:GLN:NE2	2.53	0.41
1:sR:333:A:H5'	10:s8:48:THR:HG22	2.01	0.41
1:sR:371:G:O3'	23:d2:88:LYS:NZ	2.51	0.41
1:sR:471:A:O2'	11:s9:9:SER:O	2.36	0.41
1:sR:761:G:N7	80:sR:1940:OHX:N5	2.68	0.41
1:sR:1102:G:H2'	1:sR:1103:U:O4'	2.21	0.41
1:sR:1415:U:H5'	18:c7:3:ARG:HH21	1.86	0.41
1:sR:1425:A:O2'	1:sR:1426:C:H5'	2.21	0.41
1:sR:1532:U:OP2	72:d5:77:ARG:NH1	2.54	0.41
79:Rb:42:LEU:O	79:Rb:61:PHE:CD1	2.74	0.41
3:s1:33:LYS:HE2	3:s1:95:ASN:ND2	2.35	0.41
4:s2:39:THR:HG22	4:s2:65:GLU:CD	2.46	0.41
7:s5:28:PRO:C	7:s5:29:ILE:HD12	2.46	0.41
7:s5:76:ARG:HH12	17:c6:120:ASP:HA	1.86	0.41
8:s6:32:ILE:HD11	8:s6:54:GLY:HA2	2.02	0.41
9:s7:116:ARG:HG3	9:s7:116:ARG:NH1	2.35	0.41
9:s7:117:THR:O	9:s7:121:VAL:HG23	2.20	0.41
12:c0:20:VAL:HG23	12:c0:66:TYR:O	2.21	0.41
16:c5:37:ALA:O	16:c5:42:ARG:NH1	2.49	0.41
16:c5:85:ILE:HA	16:c5:89:MET:CE	2.50	0.41
17:c6:13:LYS:HD2	17:c6:14:LYS:N	2.36	0.41
21:d0:43:LYS:C	21:d0:45:ALA:N	2.76	0.41
22:d1:32:VAL:HG22	22:d1:55:LEU:HB2	2.03	0.41
24:d3:130:VAL:HG12	24:d3:130:VAL:O	2.21	0.41
25:d4:43:LYS:O	25:d4:47:VAL:HG23	2.21	0.41
78:e1:112:GLY:C	78:e1:113:LYS:HG3	2.45	0.41
1:A:248:U:H4'	13:M:36:LYS:CD	2.51	0.41
1:A:331:A:H4'	10:J:31:ARG:O	2.21	0.41
1:A:407:A:C4	1:A:408:C:C5	3.09	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:702:G:C6	1:A:737:A:C6	3.09	0.41
1:A:980:G:H4'	1:A:1776:A:H4'	2.02	0.41
1:A:1229:G:H1'	1:A:1256:A:N6	2.35	0.41
1:A:1320:U:O2	1:A:1322:A:H5'	2.21	0.41
1:A:1350:U:H2'	1:A:1351:G:C8	2.56	0.41
1:A:1357:A:H2'	1:A:1358:G:H8	1.86	0.41
1:A:1407:U:H2'	1:A:1408:G:O4'	2.21	0.41
1:A:1478:G:H2'	1:A:1479:A:O4'	2.21	0.41
1:A:1584:G:H1'	1:A:1585:U:H5	1.86	0.41
1:A:1646:C:H2'	1:A:1647:U:C6	2.56	0.41
1:A:1795:U:O5'	73:b:5:ARG:NH2	2.54	0.41
2:B:20:ALA:HB3	2:B:172:LEU:CD1	2.51	0.41
2:B:53:THR:O	2:B:56:LYS:HB2	2.21	0.41
2:B:110:TYR:CE1	2:B:111:ILE:HG23	2.56	0.41
3:C:125:VAL:HG21	3:C:173:THR:CG2	2.50	0.41
3:C:133:TYR:CB	3:C:181:LEU:HD11	2.44	0.41
3:C:141:ALA:HB2	3:C:210:ILE:HG23	2.03	0.41
4:D:59:HIS:C	22:W:15:ARG:HH21	2.29	0.41
4:D:146:THR:HG23	4:D:148:LEU:H	1.85	0.41
4:D:238:SER:O	4:D:240:LEU:N	2.54	0.41
5:E:132:LYS:N	5:E:189:MET:O	2.54	0.41
5:E:200:LYS:HD2	5:E:200:LYS:N	2.36	0.41
6:F:15:PRO:HG2	6:F:18:TRP:CE2	2.56	0.41
6:F:159:THR:HG23	6:F:226:PHE:HE1	1.85	0.41
7:G:42:LEU:HB2	7:G:46:TRP:C	2.46	0.41
7:G:46:TRP:CE3	7:G:118:LEU:HD12	2.56	0.41
7:G:110:ALA:O	7:G:113:ILE:N	2.54	0.41
7:G:112:ARG:HD2	17:R:43:ILE:CG1	2.48	0.41
7:G:225:ARG:HD2	75:d:61:ARG:NH2	2.36	0.41
8:H:14:LYS:HD3	8:H:16:PHE:CZ	2.55	0.41
8:H:48:TYR:CE2	8:H:121:LEU:HD21	2.56	0.41
10:J:22:ARG:O	10:J:22:ARG:HG2	2.20	0.41
11:K:13:SER:OG	11:K:14:THR:N	2.54	0.41
11:K:108:ARG:HG3	11:K:109:LEU:H	1.86	0.41
11:K:138:LYS:HZ2	11:K:138:LYS:HG3	1.76	0.41
12:L:33:GLU:O	12:L:34:GLU:HB2	2.21	0.41
12:L:42:VAL:HG12	12:L:46:LEU:HD21	2.03	0.41
13:M:37:ASN:HD22	13:M:37:ASN:HA	1.70	0.41
15:P:64:ALA:HB1	15:P:105:LEU:HD11	2.03	0.41
16:Q:44:ARG:CD	16:Q:84:ILE:HD11	2.50	0.41
16:Q:115:TYR:HB2	16:Q:118:GLU:HG3	2.02	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:R:33:GLY:HA3	20:U:7:ARG:NH2	2.34	0.41
19:T:77:THR:HG23	19:T:78:HIS:CD2	2.56	0.41
20:U:115:GLU:HG3	20:U:125:SER:HA	2.03	0.41
21:V:20:ILE:HD11	21:V:95:ALA:H	1.86	0.41
21:V:34:LEU:HA	21:V:112:VAL:HG11	2.02	0.41
22:W:2:GLU:HA	22:W:7:GLN:O	2.21	0.41
23:X:20:THR:CB	23:X:22:LYS:HG3	2.51	0.41
25:Z:127:LYS:O	25:Z:131:ARG:HB2	2.20	0.41
26:AA:5:LEU:HD13	26:AA:77:TYR:CE1	2.55	0.41
27:DA:2:ALA:N	35:AR:212:G:OP2	2.54	0.41
27:DA:106:ILE:HG21	27:DA:109:LEU:HD23	2.02	0.41
28:AB:47:LYS:O	28:AB:47:LYS:CG	2.66	0.41
28:AB:73:LEU:O	28:AB:112:ILE:HA	2.21	0.41
26:DB:27:LYS:HE2	26:DB:27:LYS:HB3	1.90	0.41
26:DB:84:ARG:N	30:DE:58:TYR:OH	2.54	0.41
28:DC:58:MET:CE	35:AR:2775:U:H1'	2.48	0.41
30:AD:101:LEU:O	30:AD:101:LEU:HD23	2.21	0.41
31:CD:26:ALA:H	35:AR:2175:U:H1'	1.86	0.41
33:CE:286:GLY:HA3	33:CE:321:PHE:CD1	2.56	0.41
35:1:215:G:OP1	27:9:12:ARG:HD2	2.21	0.41
35:1:216:G:H4'	27:9:19:TYR:CZ	2.56	0.41
35:1:265:A:H5"	62:AJ:34:SER:CB	2.48	0.41
35:1:283:G:O6	35:1:304:G:H1'	2.21	0.41
35:1:339:C:OP1	35:1:1380:G:O2'	2.35	0.41
35:1:562:C:H2'	35:1:563:U:H6	1.86	0.41
35:1:650:C:H2'	35:1:651:G:C8	2.55	0.41
35:1:772:U:H2'	35:1:773:G:C8	2.56	0.41
35:1:1108:U:H2'	35:1:1109:U:H6	1.85	0.41
35:1:1258:U:H2'	35:1:1260:A:OP2	2.20	0.41
35:1:1343:A:H2'	35:1:1344:G:C8	2.56	0.41
35:1:1352:A:H4'	35:1:1353:U:H5'	2.02	0.41
35:1:1393:A:N3	35:1:1419:A:O2'	2.44	0.41
35:1:1483:G:C8	35:1:1485:G:C8	3.09	0.41
35:1:1488:G:C2	35:1:1489:A:C8	3.09	0.41
35:1:1497:C:H2'	35:1:1498:A:H8	1.85	0.41
35:1:2137:U:C6	35:1:2141:U:C4	3.09	0.41
35:1:2175:U:O2	31:j:23:ARG:HB3	2.21	0.41
35:1:2407:C:H2'	35:1:2408:U:C6	2.56	0.41
35:1:2662:G:C4	35:1:2663:G:C8	3.09	0.41
35:1:2669:G:N7	80:1:3563:OHX:N4	2.68	0.41
35:1:2724:U:H4'	54:2:54:HIS:CD2	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:2998:U:O4	80:1:3596:OHX:N1	2.54	0.41
35:1:3292:A:H2'	35:1:3293:U:C6	2.56	0.41
33:k:10:ARG:HG2	33:k:11:HIS:H	1.85	0.41
33:k:60:LEU:C	33:k:60:LEU:HD23	2.46	0.41
33:k:166:ILE:HG21	33:k:174:LYS:O	2.20	0.41
33:k:187:SER:HB3	33:k:190:GLU:HG3	2.03	0.41
38:l:22:LEU:HA	38:l:23:PRO:HD3	1.97	0.41
38:l:317:PRO:HB2	41:o:149:TYR:CD2	2.56	0.41
39:m:18:THR:HA	39:m:19:PRO:HD3	1.90	0.41
39:m:52:VAL:HA	39:m:147:ASP:HB3	2.02	0.41
39:m:61:ILE:HG23	39:m:79:TYR:CE2	2.56	0.41
40:n:22:ARG:O	40:n:23:LYS:HG2	2.19	0.41
40:n:40:LEU:HG	40:n:84:VAL:CG1	2.50	0.41
41:o:89:ILE:HA	41:o:89:ILE:HD13	1.83	0.41
41:o:236:ILE:HD12	41:o:236:ILE:HA	1.87	0.41
42:p:76:ALA:C	42:p:78:PHE:N	2.78	0.41
44:r:48:LEU:HD21	44:r:145:LYS:HB2	2.02	0.41
48:v:38:ARG:NH2	48:v:60:VAL:HG13	2.35	0.41
48:v:73:ARG:NH1	48:v:88:GLY:O	2.54	0.41
48:v:74:PRO:O	48:v:75:VAL:C	2.64	0.41
50:x:147:GLU:O	50:x:147:GLU:HG3	2.21	0.41
53:0:23:LYS:HA	53:0:23:LYS:HD3	1.94	0.41
56:6:81:GLN:O	56:6:95:PHE:HB2	2.21	0.41
57:7:6:ASP:HB3	57:7:10:GLY:N	2.34	0.41
60:AH:46:ASP:OD1	60:AH:80:ARG:HD2	2.21	0.41
60:AH:58:ARG:HB2	60:AH:61:GLN:HG2	2.02	0.41
61:AI:62:GLN:O	61:AI:66:VAL:HG23	2.20	0.41
61:AI:102:GLU:H	61:AI:102:GLU:CD	2.18	0.41
65:AM:5:LYS:H	65:AM:5:LYS:HG2	1.63	0.41
67:AO:10:THR:HA	67:AO:13:LEU:HB3	2.03	0.41
68:AP:14:GLY:O	68:AP:15:LYS:HB3	2.20	0.41
35:AR:3:U:N3	37:AT:157:U:O2	2.54	0.41
35:AR:188:U:C4	35:AR:223:U:H4'	2.56	0.41
35:AR:336:A:O2'	38:CF:48:GLN:NE2	2.38	0.41
35:AR:380:U:H2'	35:AR:381:U:H6	1.85	0.41
35:AR:542:G:H2'	35:AR:543:C:H6	1.84	0.41
35:AR:773:G:N7	80:AR:3439:OHX:N5	2.68	0.41
35:AR:829:U:H3	35:AR:895:A:H62	1.69	0.41
35:AR:947:G:H2'	35:AR:948:C:C6	2.56	0.41
35:AR:1025:A:H8	35:AR:1025:A:P	2.43	0.41
35:AR:1045:C:OP2	80:AR:3664:OHX:N5	2.54	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AR:1117:G:C6	35:AR:1142:G:N2	2.88	0.41
35:AR:1134:G:N7	80:AR:3487:OHX:N3	2.67	0.41
35:AR:1340:G:H2'	35:AR:1341:U:H6	1.85	0.41
35:AR:1654:A:O3'	60:DI:40:THR:OG1	2.39	0.41
35:AR:1887:A:OP1	80:AR:3613:OHX:N3	2.53	0.41
35:AR:1941:C:O2'	35:AR:3344:A:N6	2.48	0.41
35:AR:2139:A:H62	63:DL:4:GLY:HA3	1.85	0.41
35:AR:3166:C:H2'	35:AR:3167:A:H8	1.86	0.41
35:AR:3364:C:OP1	80:AR:3443:OHX:N5	2.54	0.41
36:AS:16:U:O2'	36:AS:17:A:H5'	2.21	0.41
37:AT:4:C:C2	37:AT:5:U:C5	3.08	0.41
37:AT:80:A:H5'	37:AT:81:U:OP2	2.20	0.41
37:AT:82:U:O2'	37:AT:87:G:H4'	2.20	0.41
37:AT:143:U:H2'	37:AT:144:G:O4'	2.21	0.41
38:CF:10:SER:HG	38:CF:14:GLU:HB2	1.86	0.41
38:CF:327:LEU:HA	41:CI:166:ASN:ND2	2.34	0.41
41:CI:29:GLU:O	41:CI:30:ARG:C	2.64	0.41
41:CI:131:GLU:O	41:CI:229:PHE:HB2	2.20	0.41
42:CJ:171:LYS:HE3	42:CJ:226:TYR:HB3	2.03	0.41
42:CJ:171:LYS:HD2	42:CJ:226:TYR:CD2	2.55	0.41
45:CM:82:ARG:O	45:CM:86:VAL:HG23	2.20	0.41
46:CN:115:ARG:NH1	46:CN:147:ILE:HG13	2.36	0.41
51:CS:3:ILE:HB	51:CS:5:HIS:NE2	2.36	0.41
51:CS:22:ASP:C	51:CS:27:LYS:HE2	2.46	0.41
55:CW:95:PHE:HE1	55:CW:103:TYR:CD1	2.38	0.41
58:CZ:38:LEU:CD2	58:CZ:40:LEU:HG	2.51	0.41
34:DG:118:LYS:HA	34:DG:118:LYS:HD3	1.66	0.41
62:DK:76:ARG:HG2	62:DK:76:ARG:NH1	2.36	0.41
64:DM:57:ASN:OD1	64:DM:57:ASN:N	2.53	0.41
66:DO:97:ARG:HB2	66:DO:120:GLN:O	2.21	0.41
67:DP:8:LYS:HD3	67:DP:12:ARG:HH21	1.86	0.41
70:sM:72:ARG:HD2	1:sR:1460:A:H4'	2.03	0.41
72:a:79:ALA:O	72:a:82:HIS:HB3	2.21	0.41
73:b:75:VAL:O	73:b:76:SER:C	2.63	0.41
77:f:41:THR:HA	77:f:45:VAL:CG1	2.48	0.41
79:h:157:VAL:HA	79:h:158:PRO:HD3	1.95	0.41
79:h:171:SER:OG	79:h:172:ALA:N	2.54	0.41
1:sR:149:C:OP1	25:d4:121:THR:HG23	2.21	0.41
1:sR:617:U:H5'	1:sR:1031:U:O4'	2.21	0.41
1:sR:631:G:H2'	1:sR:632:U:H6	1.85	0.41
1:sR:680:U:H3'	1:sR:681:U:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:767:U:C5	11:s9:143:ILE:HD13	2.56	0.41
1:sR:817:A:H2'	1:sR:818:C:H6	1.84	0.41
1:sR:1038:U:C2	1:sR:1094:G:N2	2.88	0.41
1:sR:1174:C:OP2	19:c8:141:THR:HG21	2.20	0.41
1:sR:1389:C:H6	18:c7:28:PHE:CE2	2.39	0.41
1:sR:1558:U:H3	16:c5:122:THR:CG2	2.31	0.41
1:sR:1777:G:H2'	1:sR:1778:G:H8	1.85	0.41
79:Rb:86:ASP:O	79:Rb:87:LYS:HB2	2.21	0.41
79:Rb:134:TRP:CZ3	79:Rb:138:GLY:O	2.74	0.41
79:Rb:200:ASN:H	79:Rb:215:GLY:CA	2.31	0.41
79:Rb:240:VAL:HG23	79:Rb:255:ALA:H	1.86	0.41
2:s0:7:PHE:CE1	2:s0:184:LEU:HD11	2.56	0.41
3:s1:32:ILE:HG12	3:s1:96:LEU:HD11	2.02	0.41
5:s3:58:VAL:O	5:s3:65:ARG:O	2.39	0.41
5:s3:86:LEU:C	5:s3:87:TYR:HD1	2.29	0.41
5:s3:188:ILE:HG21	5:s3:188:ILE:HD13	1.83	0.41
7:s5:84:LYS:HE2	7:s5:84:LYS:HB2	1.81	0.41
8:s6:52:ILE:HG23	8:s6:109:LEU:HD11	2.02	0.41
8:s6:122:GLU:CD	8:s6:123:GLY:H	2.29	0.41
8:s6:199:GLN:HG2	8:s6:202:ARG:NE	2.36	0.41
9:s7:14:THR:C	9:s7:18:LEU:HD12	2.45	0.41
10:s8:26:LYS:HG3	10:s8:29:LEU:HD23	2.03	0.41
10:s8:137:LYS:O	10:s8:141:ARG:HG3	2.21	0.41
11:s9:8:TYR:C	11:s9:8:TYR:CD1	2.99	0.41
11:s9:84:GLY:HA3	11:s9:107:ARG:HH11	1.86	0.41
11:s9:100:LYS:HE2	11:s9:100:LYS:HB2	1.93	0.41
12:c0:24:LYS:HD2	12:c0:63:TYR:CZ	2.56	0.41
13:c1:8:GLN:HE22	13:c1:14:GLN:CB	2.34	0.41
14:c3:32:SER:O	14:c3:35:GLU:HB3	2.21	0.41
14:c3:47:PRO:HG3	14:c3:72:MET:SD	2.61	0.41
16:c5:31:GLU:O	16:c5:35:LYS:HG3	2.21	0.41
16:c5:111:MET:HG2	16:c5:119:PHE:CE2	2.56	0.41
17:c6:25:GLY:O	17:c6:62:ASN:HA	2.21	0.41
19:c8:45:LEU:HD13	19:c8:49:LYS:HE2	2.02	0.41
24:d3:68:ILE:HD13	24:d3:68:ILE:HA	1.85	0.41
76:d9:10:HIS:CG	76:d9:11:PRO:HD2	2.56	0.41
1:A:154:G:H5'	8:H:108:VAL:HG11	2.03	0.41
1:A:428:A:H2'	1:A:429:G:O4'	2.21	0.41
1:A:525:A:C6	1:A:526:A:C6	3.09	0.41
1:A:633:U:O2'	1:A:1102:G:H4'	2.21	0.41
1:A:728:U:O2	1:A:728:U:H2'	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:821:U:C4	1:A:852:C:C2	3.08	0.41
1:A:895:G:H2'	1:A:896:U:H6	1.86	0.41
1:A:1002:G:N1	1:A:1761:U:OP1	2.39	0.41
1:A:1147:A:OP2	4:D:91:ARG:NH2	2.54	0.41
1:A:1157:A:H61	1:A:1621:U:H3	1.67	0.41
1:A:1252:C:O2'	78:g:132:LEU:HA	2.21	0.41
1:A:1483:A:C6	1:A:1484:G:C6	3.09	0.41
1:A:1594:G:C6	1:A:1595:U:N3	2.89	0.41
1:A:1663:G:H2'	1:A:1664:C:O4'	2.20	0.41
1:A:1796:C:H4'	1:A:1797:A:OP2	2.21	0.41
2:B:63:ILE:HD12	2:B:64:ILE:N	2.36	0.41
2:B:75:ALA:C	2:B:76:ILE:HD12	2.46	0.41
4:D:188:LEU:HA	4:D:191:ALA:HB3	2.02	0.41
5:E:163:PRO:O	5:E:167:PHE:HD1	2.04	0.41
6:F:71:LYS:HB3	6:F:74:GLY:O	2.21	0.41
7:G:25:LEU:HD12	7:G:27:THR:N	2.36	0.41
9:I:141:ARG:CZ	9:I:143:LEU:HD21	2.51	0.41
11:K:118:LEU:O	11:K:118:LEU:HD23	2.21	0.41
11:K:124:HIS:O	11:K:128:LEU:HG	2.21	0.41
17:R:79:TYR:O	17:R:82:ARG:NH1	2.53	0.41
19:T:5:VAL:HG22	19:T:6:GLN:H	1.85	0.41
19:T:49:LYS:NZ	19:T:80:LYS:O	2.53	0.41
20:U:105:LEU:HD22	20:U:122:ARG:NE	2.36	0.41
23:X:109:GLY:O	23:X:111:MET:HG2	2.20	0.41
24:Y:70:LYS:O	24:Y:86:PHE:CD1	2.74	0.41
24:Y:92:CYS:HA	24:Y:95:PHE:CD1	2.55	0.41
28:AB:51:GLY:C	51:y:173:GLU:HA	2.46	0.41
26:DB:42:LEU:HD11	26:DB:98:THR:HA	2.03	0.41
28:DC:7:LYS:HD3	28:DC:7:LYS:HA	1.75	0.41
33:CE:380:MET:HE2	33:CE:380:MET:HB3	1.85	0.41
34:AF:57:TYR:CE1	35:1:1162:U:H4'	2.56	0.41
35:1:130:A:H2'	35:1:131:C:O4'	2.21	0.41
35:1:415:G:H2'	35:1:416:A:H8	1.85	0.41
35:1:573:C:H2'	35:1:574:U:C6	2.56	0.41
35:1:820:A:H2'	35:1:821:U:C6	2.56	0.41
35:1:2419:A:H1'	35:1:2804:A:O4'	2.21	0.41
35:1:2430:A:H2'	35:1:2431:C:H6	1.86	0.41
35:1:2762:A:H2'	35:1:2763:U:C6	2.57	0.41
35:1:2964:G:N2	35:1:2967:A:OP2	2.47	0.41
35:1:3318:G:H2'	35:1:3318:G:OP2	2.20	0.41
37:4:5:U:H2'	37:4:6:U:H6	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:k:222:LYS:O	33:k:272:TYR:N	2.46	0.41
38:l:145:ILE:HG13	38:l:146:PRO:HD2	2.02	0.41
38:l:162:THR:O	38:l:166:VAL:HG23	2.20	0.41
39:m:163:LEU:HD13	39:m:173:VAL:HG11	2.01	0.41
40:n:9:TRP:HD1	40:n:10:TYR:C	2.29	0.41
42:p:29:SER:O	42:p:31:PRO:HD3	2.21	0.41
42:p:143:ILE:HD11	42:p:151:VAL:HG11	2.03	0.41
43:q:181:VAL:HG13	66:AN:89:TYR:OH	2.21	0.41
45:s:80:LEU:HD13	45:s:129:VAL:HG21	2.02	0.41
48:v:19:LEU:HD12	48:v:19:LEU:HA	1.74	0.41
50:x:131:ARG:HA	50:x:131:ARG:HD2	1.89	0.41
51:y:8:LYS:HD3	51:y:8:LYS:HA	1.68	0.41
56:6:125:LEU:HD12	56:6:125:LEU:HA	1.90	0.41
61:AI:40:SER:OG	61:AI:42:PRO:HD3	2.21	0.41
64:AL:26:LYS:NZ	64:AL:28:ASN:ND2	2.69	0.41
67:AO:13:LEU:C	67:AO:13:LEU:HD13	2.46	0.41
70:i:79:SER:C	70:i:82:THR:HG1	2.25	0.41
35:AR:437:G:H3'	35:AR:437:G:H8	1.85	0.41
35:AR:632:G:H2'	35:AR:633:C:C6	2.56	0.41
35:AR:979:U:H1'	35:AR:980:A:N7	2.35	0.41
35:AR:1121:U:C4	35:AR:1122:U:C4	3.09	0.41
35:AR:1604:G:N3	35:AR:1604:G:H3'	2.36	0.41
35:AR:2133:U:O4	35:AR:2147:A:H2	2.04	0.41
35:AR:2434:U:H4'	35:AR:2435:G:O5'	2.20	0.41
35:AR:2441:A:C2	35:AR:2442:G:H1'	2.56	0.41
35:AR:2612:U:H2'	35:AR:2613:U:O4'	2.20	0.41
35:AR:2631:U:H4'	35:AR:2697:A:H2	1.86	0.41
35:AR:3278:C:OP2	35:AR:3278:C:H2'	2.21	0.41
36:AS:27:A:P	39:CG:57:ASN:H	2.44	0.41
37:AT:53:A:C4	37:AT:54:A:C8	3.09	0.41
38:CF:20:LEU:CD2	38:CF:256:THR:HG23	2.50	0.41
39:CG:99:TYR:CE2	39:CG:199:ILE:HG12	2.55	0.41
40:CH:108:LYS:HE2	40:CH:108:LYS:HB3	1.76	0.41
40:CH:137:ASP:HA	40:CH:140:VAL:HG12	2.03	0.41
42:CJ:153:ILE:HD13	42:CJ:166:LEU:HB3	2.03	0.41
42:CJ:156:ASP:O	42:CJ:183:LYS:HE3	2.21	0.41
43:CK:79:ILE:O	43:CK:82:VAL:HG12	2.21	0.41
44:CL:200:LEU:HD11	44:CL:217:PHE:HZ	1.86	0.41
47:CO:36:VAL:HG11	47:CO:55:ARG:NH2	2.36	0.41
47:CO:48:GLY:HA3	47:CO:53:VAL:CG1	2.42	0.41
48:CP:44:ARG:NH1	48:CP:120:TRP:O	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:CT:41:ILE:HD13	52:CT:41:ILE:HA	1.87	0.41
52:CT:167:ARG:NH2	1:sR:813:U:O3'	2.53	0.41
69:DR:79:VAL:O	69:DR:83:ILE:HG23	2.21	0.41
71:p0:84:VAL:HG12	71:p0:85:GLY:N	2.35	0.41
73:b:45:VAL:HB	73:b:50:VAL:HB	2.03	0.41
79:h:16:HIS:CE1	79:h:37:SER:HB3	2.56	0.41
79:h:21:THR:H	79:h:21:THR:HG23	1.66	0.41
79:h:21:THR:H	79:h:37:SER:HA	1.86	0.41
79:h:74:THR:HG23	79:h:77:GLY:H	1.86	0.41
1:sR:90:C:O2	1:sR:451:A:H4'	2.20	0.41
1:sR:477:A:OP2	77:e0:28:LYS:NZ	2.54	0.41
1:sR:767:U:H5	11:s9:143:ILE:HD13	1.86	0.41
1:sR:1340:U:O4	17:c6:9:THR:HA	2.21	0.41
1:sR:1529:C:H2'	1:sR:1530:C:C6	2.56	0.41
79:Rb:157:VAL:HG12	79:Rb:168:THR:O	2.20	0.41
3:s1:83:LYS:HB2	3:s1:83:LYS:HE3	1.71	0.41
6:s4:199:GLU:OE2	6:s4:201:HIS:NE2	2.52	0.41
7:s5:165:LEU:HD12	7:s5:165:LEU:HA	1.95	0.41
8:s6:166:GLU:O	8:s6:167:LYS:HD3	2.21	0.41
12:c0:53:GLY:C	12:c0:54:TYR:HD1	2.28	0.41
12:c0:77:ARG:NE	12:c0:82:LEU:O	2.35	0.41
14:c3:119:GLU:HG2	14:c3:141:TYR:HE2	1.85	0.41
18:c7:68:GLY:C	18:c7:69:ILE:HG13	2.46	0.41
18:c7:109:LEU:HD13	18:c7:109:LEU:C	2.46	0.41
19:c8:8:GLN:CD	19:c8:8:GLN:H	2.28	0.41
19:c8:16:ARG:C	19:c8:17:LEU:HD22	2.46	0.41
19:c8:45:LEU:HA	19:c8:48:LYS:HD2	2.03	0.41
20:c9:57:ARG:O	20:c9:61:VAL:HG23	2.21	0.41
21:d0:58:LEU:HD13	21:d0:88:LYS:HE2	2.02	0.41
23:d2:77:PRO:O	23:d2:79:PHE:HD1	2.04	0.41
23:d2:104:LEU:HD22	23:d2:125:ILE:HA	2.02	0.41
74:d7:35:VAL:CG1	74:d7:36:LYS:N	2.84	0.41
1:A:161:U:O3'	8:H:83:CYS:HA	2.21	0.40
1:A:276:C:H2'	1:A:278:U:O4	2.21	0.40
1:A:279:G:OP2	1:A:279:G:C5	2.74	0.40
1:A:526:A:C5	1:A:527:A:C8	3.09	0.40
1:A:649:U:O2'	1:A:650:U:H6	2.04	0.40
1:A:968:U:O3'	1:A:1032:G:N2	2.54	0.40
1:A:1305:U:H4'	1:A:1306:C:OP2	2.21	0.40
1:A:1357:A:H4'	20:U:126:GLU:OE2	2.21	0.40
1:A:1389:C:H6	18:S:28:PHE:CE2	2.40	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1611:A:C5	1:A:1612:U:C5	3.09	0.40
2:B:40:ALA:HB2	2:B:46:HIS:CD2	2.56	0.40
2:B:74:VAL:HG22	2:B:96:THR:HG23	2.02	0.40
2:B:108:THR:HA	4:D:64:LYS:HZ1	1.85	0.40
2:B:147:THR:O	2:B:161:PRO:HA	2.21	0.40
3:C:159:SER:HA	3:C:162:ARG:HH11	1.85	0.40
4:D:81:MET:CE	4:D:183:ALA:HA	2.51	0.40
6:F:98:ASN:HD22	6:F:119:ALA:HB2	1.83	0.40
6:F:158:ASP:HB3	6:F:174:LYS:HA	2.03	0.40
8:H:79:LYS:HE3	8:H:80:ASN:ND2	2.36	0.40
9:I:166:LEU:HA	9:I:169:PHE:CE2	2.56	0.40
11:K:171:ARG:HA	11:K:174:ARG:HD3	2.03	0.40
14:O:128:TYR:CE1	14:O:132:VAL:HG11	2.56	0.40
15:P:19:ILE:HB	15:P:83:ILE:HB	2.03	0.40
19:T:35:ILE:HG22	19:T:36:LYS:N	2.36	0.40
20:U:89:ARG:HG3	20:U:89:ARG:NH1	2.36	0.40
20:U:132:LEU:O	20:U:134:ARG:N	2.54	0.40
21:V:24:ILE:HG22	21:V:116:VAL:CG2	2.51	0.40
28:AB:69:TRP:CD2	46:t:64:LYS:HG3	2.57	0.40
26:DB:11:ALA:HB1	26:DB:80:LEU:HD22	2.03	0.40
26:DB:48:ARG:NH1	35:AR:1631:C:OP2	2.47	0.40
28:DC:4:ARG:NH2	35:AR:1427:U:OP2	2.55	0.40
28:DC:73:LEU:O	28:DC:112:ILE:HA	2.21	0.40
31:CD:166:ILE:H	31:CD:166:ILE:HG12	1.74	0.40
29:DD:31:SER:HA	35:AR:748:U:H5"	2.03	0.40
32:AE:10:ARG:HH11	32:AE:108:VAL:HG22	1.86	0.40
33:CE:24:SER:C	33:CE:26:ARG:N	2.78	0.40
33:CE:242:THR:HA	35:AR:2948:C:O2'	2.20	0.40
33:CE:291:GLU:O	33:CE:292:ALA:HB3	2.21	0.40
34:AF:4:LEU:HD22	34:AF:91:THR:HG22	2.03	0.40
35:1:95:A:C5	35:1:96:G:H1'	2.56	0.40
35:1:113:C:P	48:v:147:ARG:HE	2.42	0.40
35:1:367:A:OP1	80:1:4126:OHX:N2	2.54	0.40
35:1:679:U:H2'	35:1:680:G:H8	1.85	0.40
35:1:1670:C:H4'	35:1:1859:A:O3'	2.21	0.40
35:1:1804:A:H2'	35:1:1805:C:C6	2.56	0.40
35:1:1838:G:H4'	35:1:1839:A:N3	2.35	0.40
35:1:2862:U:H2'	35:1:2863:G:O4'	2.21	0.40
35:1:2997:G:C6	35:1:3396:U:C4	3.09	0.40
35:1:3053:G:H2'	35:1:3054:U:C6	2.56	0.40
35:1:3332:U:OP1	57:7:35:LYS:HD3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:j:79:ASN:OD1	31:j:168:VAL:C	2.65	0.40
33:k:94:GLU:H	33:k:94:GLU:HG2	1.75	0.40
33:k:303:LYS:CD	33:k:361:THR:HG21	2.50	0.40
39:m:143:LYS:HE3	39:m:145:PHE:HZ	1.84	0.40
40:n:148:GLU:HA	40:n:151:LYS:HG3	2.02	0.40
45:s:17:LEU:HD13	45:s:129:VAL:HG22	2.02	0.40
45:s:101:ASN:HD21	45:s:130:VAL:HG23	1.86	0.40
46:t:106:GLN:O	46:t:107:GLU:C	2.65	0.40
46:t:128:ARG:HH12	61:AI:112:PRO:HD2	1.85	0.40
47:u:65:LEU:HD11	53:0:152:LEU:HD12	2.02	0.40
48:v:190:THR:HG23	48:v:193:ARG:HH22	1.86	0.40
50:x:60:PHE:CE1	50:x:82:ARG:HB2	2.56	0.40
58:8:50:ALA:HB2	61:AI:77:PRO:HG2	2.02	0.40
35:AR:22:G:H1'	37:AT:104:A:N3	2.36	0.40
35:AR:542:G:C6	35:AR:550:A:C6	3.09	0.40
35:AR:794:U:H2'	35:AR:795:G:C8	2.55	0.40
35:AR:1584:U:H2'	35:AR:1585:C:C6	2.56	0.40
35:AR:2537:U:HO2'	35:AR:2538:U:C5'	2.33	0.40
35:AR:2850:G:O6	80:AR:3555:OHX:N1	2.54	0.40
41:CI:27:ALA:HA	41:CI:30:ARG:HB3	2.03	0.40
42:CJ:211:LEU:O	42:CJ:215:VAL:HG23	2.21	0.40
44:CL:129:VAL:HA	44:CL:133:GLN:OE1	2.21	0.40
46:CN:8:PRO:HA	51:CS:164:ARG:O	2.21	0.40
46:CN:58:VAL:HG12	46:CN:70:ARG:O	2.21	0.40
53:CU:13:ARG:HE	53:CU:13:ARG:HB3	1.64	0.40
60:DI:81:CYS:CA	60:DI:84:CYS:HB2	2.52	0.40
65:DN:42:ARG:HG2	65:DN:43:ASN:N	2.35	0.40
72:a:51:LEU:HD23	72:a:51:LEU:HA	1.91	0.40
72:a:89:ILE:C	72:a:89:ILE:HD12	2.46	0.40
78:g:99:LYS:H	78:g:99:LYS:HG2	1.51	0.40
79:h:20:VAL:HG23	79:h:20:VAL:O	2.22	0.40
79:h:259:GLY:HA3	79:h:275:ARG:CD	2.45	0.40
1:sR:20:G:H5'	1:sR:571:G:C5	2.56	0.40
1:sR:151:G:H2'	1:sR:152:U:H6	1.84	0.40
1:sR:679:U:O5'	1:sR:679:U:H6	2.04	0.40
1:sR:761:G:OP1	11:s9:54:ARG:NH2	2.50	0.40
1:sR:1552:U:O2	1:sR:1597:A:H2	2.04	0.40
79:Rb:265:LEU:HD23	79:Rb:265:LEU:HA	1.52	0.40
3:s1:27:LYS:NZ	3:s1:49:ASN:OD1	2.54	0.40
6:s4:191:ARG:CZ	6:s4:218:PHE:CD2	3.03	0.40
8:s6:174:LYS:O	8:s6:174:LYS:HG2	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:s7:162:ILE:HD12	9:s7:166:LEU:HD21	2.04	0.40
11:s9:30:LEU:HD21	11:s9:102:GLU:HG3	2.03	0.40
13:c1:55:ASP:O	13:c1:56:LYS:C	2.64	0.40
16:c5:48:GLY:O	16:c5:50:THR:N	2.43	0.40
18:c7:79:GLU:OE1	18:c7:83:GLN:NE2	2.54	0.40
19:c8:45:LEU:HD12	19:c8:45:LEU:C	2.46	0.40
20:c9:18:TYR:CE1	20:c9:22:LEU:HG	2.57	0.40
20:c9:42:GLY:HA2	20:c9:94:ILE:HD11	2.03	0.40
24:d3:131:SER:O	24:d3:132:LEU:C	2.65	0.40
73:d6:37:LYS:HA	73:d6:71:LEU:O	2.21	0.40
74:d7:36:LYS:HD3	74:d7:43:ILE:CG1	2.46	0.40
76:d9:31:ILE:O	76:d9:31:ILE:HG23	2.21	0.40
78:e1:107:LYS:O	78:e1:114:VAL:HG13	2.21	0.40
1:A:541:A:H2'	1:A:541:A:N3	2.36	0.40
1:A:542:A:H8	1:A:543:C:H5'	1.86	0.40
1:A:543:C:O2	1:A:543:C:H2'	2.20	0.40
1:A:625:C:O2'	1:A:939:A:N3	2.44	0.40
1:A:743:U:C4	1:A:809:A:C2	3.09	0.40
1:A:836:U:C2	1:A:837:G:N7	2.89	0.40
1:A:1357:A:O2'	20:U:129:GLN:HG2	2.20	0.40
1:A:1641:C:H2'	1:A:1642:G:H8	1.81	0.40
1:A:1734:U:H2'	1:A:1735:U:C6	2.56	0.40
2:B:147:THR:CG2	2:B:159:ALA:HB1	2.51	0.40
2:B:179:ARG:O	2:B:183:ARG:HG3	2.21	0.40
3:C:119:THR:HB	3:C:155:TYR:CE1	2.56	0.40
4:D:35:TRP:CZ2	4:D:67:GLN:HB2	2.57	0.40
5:E:217:ILE:HD12	5:E:219:ALA:N	2.36	0.40
6:F:180:LEU:N	6:F:229:GLY:O	2.50	0.40
6:F:240:LYS:CE	6:F:240:LYS:H	2.35	0.40
7:G:116:HIS:O	7:G:117:THR:C	2.64	0.40
8:H:166:GLU:HB2	8:H:167:LYS:NZ	2.36	0.40
16:Q:129:GLY:HA3	70:i:74:LYS:HE2	2.02	0.40
20:U:24:ARG:HG3	20:U:24:ARG:O	2.21	0.40
21:V:16:GLN:OE1	21:V:97:VAL:HG21	2.22	0.40
22:W:37:ALA:CA	22:W:50:TYR:HD1	2.32	0.40
22:W:72:LEU:HD23	22:W:72:LEU:HA	1.80	0.40
23:X:11:LEU:HA	23:X:11:LEU:HD23	1.91	0.40
25:Z:89:TYR:O	25:Z:92:VAL:HG12	2.22	0.40
31:CD:79:ASN:O	31:CD:82:VAL:HG13	2.22	0.40
35:1:29:C:O2	48:v:162:ARG:HG2	2.22	0.40
35:1:191:U:H2'	35:1:192:C:H6	1.86	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:393:U:H2'	35:1:394:G:O4'	2.21	0.40
35:1:1233:G:H8	35:1:1233:G:OP2	2.04	0.40
35:1:1233:G:H22	35:1:1255:C:H42	1.67	0.40
35:1:2361:A:H2'	35:1:2362:C:H6	1.85	0.40
35:1:2366:C:H2'	35:1:2367:A:H8	1.86	0.40
35:1:2407:C:C2	35:1:2408:U:C5	3.09	0.40
35:1:2780:A:H2'	35:1:2781:U:H6	1.85	0.40
35:1:3356:G:H2'	35:1:3357:U:H6	1.86	0.40
33:k:318:LYS:HE3	33:k:318:LYS:HB2	1.69	0.40
38:l:35:VAL:HG21	38:l:244:LEU:HD21	2.02	0.40
42:p:186:LEU:O	42:p:190:VAL:HG12	2.21	0.40
44:r:115:MET:HE3	44:r:115:MET:HB2	1.70	0.40
48:v:35:VAL:O	48:v:64:VAL:HA	2.22	0.40
51:y:42:ALA:HA	51:y:43:PRO:HD2	1.92	0.40
27:9:81:GLN:NE2	27:9:98:ASN:OD1	2.49	0.40
63:AK:68:LYS:HA	63:AK:68:LYS:HD2	1.71	0.40
69:AQ:3:LYS:HE2	69:AQ:3:LYS:HB3	1.82	0.40
35:AR:873:C:H5"	35:AR:874:U:O5'	2.21	0.40
35:AR:1334:U:H1'	41:CI:208:SER:HB2	2.02	0.40
35:AR:1701:C:H2'	35:AR:1702:U:O4'	2.22	0.40
35:AR:2263:C:H6	35:AR:2263:C:H2'	1.63	0.40
35:AR:2287:C:O2'	80:AR:3447:OHX:N3	2.54	0.40
35:AR:2661:G:H2'	35:AR:2662:G:C8	2.55	0.40
35:AR:2877:G:OP1	80:AR:3557:OHX:N6	2.53	0.40
35:AR:2996:U:O2	35:AR:2996:U:H2'	2.21	0.40
35:AR:3111:U:O4	35:AR:3120:C:H4'	2.21	0.40
35:AR:3276:G:H5'	40:CH:48:ARG:HH22	1.87	0.40
35:AR:3299:A:C5	35:AR:3300:U:C5	3.10	0.40
35:AR:3332:U:OP1	57:CY:35:LYS:HD2	2.21	0.40
38:CF:74:ILE:HD13	38:CF:88:GLY:HA2	2.03	0.40
39:CG:50:ARG:HD2	39:CG:147:ASP:OD2	2.22	0.40
40:CH:158:TYR:CE1	47:CO:115:PHE:HA	2.55	0.40
43:CK:163:GLN:OE1	43:CK:166:ARG:NH1	2.54	0.40
44:CL:86:HIS:O	44:CL:138:VAL:HA	2.21	0.40
32:DF:8:VAL:HG12	32:DF:9:THR:N	2.36	0.40
59:DH:71:VAL:HG13	59:DH:81:VAL:CG2	2.52	0.40
63:DL:36:SER:HA	63:DL:45:ARG:NH1	2.37	0.40
64:DM:41:THR:HG1	64:DM:43:PHE:HE1	1.65	0.40
72:a:84:GLU:O	72:a:84:GLU:HG2	2.21	0.40
76:e:10:HIS:O	76:e:12:ARG:HD3	2.21	0.40
79:h:231:MET:HB2	79:h:232:TYR:CD1	2.47	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:478:A:O3'	11:s9:124:HIS:HB2	2.21	0.40
1:sR:638:U:C4	9:s7:114:ARG:NH2	2.89	0.40
1:sR:911:U:O2'	1:sR:915:A:H1'	2.20	0.40
1:sR:975:C:H2'	1:sR:976:G:O4'	2.21	0.40
1:sR:1183:A:N3	1:sR:1210:C:O2'	2.50	0.40
1:sR:1390:U:P	18:c7:49:LYS:HG3	2.62	0.40
1:sR:1446:A:O2'	1:sR:1448:G:N7	2.44	0.40
1:sR:1496:U:H4'	1:sR:1519:U:O2'	2.20	0.40
1:sR:1711:C:H2'	1:sR:1712:A:H5"	2.03	0.40
2:s0:184:LEU:HD12	22:d1:43:GLY:CA	2.52	0.40
4:s2:68:ILE:HG22	4:s2:72:LEU:HD13	2.03	0.40
5:s3:11:LEU:HB2	21:d0:86:ILE:HD11	2.02	0.40
5:s3:25:PHE:HB3	5:s3:34:TYR:CE2	2.56	0.40
8:s6:20:ASP:OD2	8:s6:23:ARG:HG2	2.21	0.40
9:s7:46:ILE:H	9:s7:47:ARG:NH1	2.19	0.40
10:s8:152:ILE:HD12	10:s8:153:GLU:O	2.21	0.40
12:c0:14:TYR:CD2	12:c0:21:VAL:HG12	2.57	0.40
13:c1:128:CYS:N	13:c1:136:ARG:O	2.39	0.40
15:c4:13:VAL:HG23	15:c4:13:VAL:O	2.22	0.40
16:c5:25:LEU:O	16:c5:26:LEU:C	2.64	0.40
16:c5:109:PRO:O	16:c5:112:LEU:HG	2.22	0.40
19:c8:82:PRO:HG3	20:c9:36:ILE:HD13	2.02	0.40
72:d5:64:VAL:HG13	72:d5:65:LEU:HD23	2.04	0.40
1:A:1:U:O2'	11:K:54:ARG:NH2	2.44	0.40
1:A:65:A:O5'	8:H:136:LYS:NZ	2.54	0.40
1:A:66:U:H5'	8:H:172:ALA:O	2.22	0.40
1:A:94:U:H4'	6:F:6:LYS:HA	2.02	0.40
1:A:149:C:H2'	1:A:150:U:H6	1.86	0.40
1:A:350:U:H4'	1:A:351:C:H3'	2.04	0.40
1:A:929:A:P	1:A:931:C:H42	2.44	0.40
1:A:1248:C:H2'	1:A:1249:U:C6	2.53	0.40
1:A:1263:G:H2'	1:A:1264:G:O4'	2.21	0.40
1:A:1332:C:H4'	5:E:203:PRO:HG3	2.02	0.40
1:A:1483:A:C5	1:A:1524:A:C6	3.09	0.40
1:A:1525:A:H2'	1:A:1526:A:O4'	2.21	0.40
1:A:1607:G:H2'	1:A:1608:U:H6	1.85	0.40
1:A:1673:G:H22	1:A:1728:A:H2	1.69	0.40
1:A:1793:G:O2'	1:A:1795:U:OP2	2.39	0.40
3:C:73:LEU:CD1	3:C:74:GLN:HG2	2.51	0.40
3:C:164:ILE:C	3:C:168:ILE:HD12	2.47	0.40
6:F:97:GLU:C	6:F:98:ASN:OD1	2.64	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:121:TYR:CD2	6:F:161:LYS:HE3	2.56	0.40
6:F:126:VAL:HA	6:F:141:THR:CB	2.52	0.40
6:F:221:ARG:O	6:F:224:ASN:HB2	2.21	0.40
6:F:254:ARG:HA	6:F:257:ALA:HB2	2.03	0.40
7:G:31:GLU:HA	7:G:34:GLN:HG3	2.02	0.40
8:H:51:LYS:HB3	8:H:112:VAL:HG22	2.03	0.40
8:H:158:ILE:HD12	8:H:158:ILE:O	2.22	0.40
9:I:31:SER:HB2	9:I:32:PRO:HD2	2.04	0.40
9:I:138:LYS:O	9:I:139:ARG:NH1	2.53	0.40
10:J:40:ALA:O	10:J:59:ARG:HB3	2.21	0.40
10:J:184:LEU:C	10:J:185:GLU:HG3	2.46	0.40
11:K:34:PHE:N	11:K:34:PHE:CD1	2.89	0.40
14:O:141:TYR:CE2	14:O:146:ALA:HB2	2.57	0.40
18:S:5:ARG:HB3	18:S:9:VAL:HG21	2.03	0.40
20:U:127:ASN:O	20:U:130:ARG:HB2	2.21	0.40
20:U:129:GLN:HA	20:U:132:LEU:CG	2.45	0.40
27:DA:52:ARG:NH1	37:AT:71:A:O3'	2.54	0.40
28:AB:21:ARG:HG3	35:1:1369:A:H4'	2.03	0.40
28:AB:96:LYS:C	28:AB:98:THR:H	2.29	0.40
28:AB:147:LEU:HD13	46:t:166:ALA:HB1	2.01	0.40
26:DB:10:VAL:HG12	26:DB:24:VAL:CG2	2.45	0.40
26:DB:24:VAL:HG23	26:DB:130:PHE:CE2	2.56	0.40
26:DB:84:ARG:CZ	26:DB:85:TYR:HE1	2.35	0.40
26:DB:87:LEU:HD11	26:DB:127:ASN:HB3	2.04	0.40
28:DC:111:LYS:HG3	28:DC:129:PHE:HB2	2.02	0.40
33:CE:239:PRO:O	33:CE:242:THR:HG23	2.21	0.40
34:AF:95:GLU:OE1	34:AF:120:THR:OG1	2.31	0.40
35:1:386:A:H2'	35:1:387:A:O4'	2.21	0.40
35:1:802:C:C2	35:1:803:C:C5	3.09	0.40
35:1:873:C:H4'	35:1:874:U:OP2	2.20	0.40
35:1:875:G:C2	35:1:876:A:C8	3.10	0.40
35:1:1642:A:O2'	35:1:1643:A:C8	2.74	0.40
35:1:1676:A:N7	55:5:74:LYS:HE3	2.37	0.40
35:1:2273:G:N2	35:1:2311:G:H2'	2.37	0.40
35:1:2310:U:OP1	80:1:3477:OHX:N4	2.55	0.40
35:1:2765:C:H2'	35:1:2766:U:H6	1.85	0.40
35:1:2983:C:O2'	35:1:2984:C:H5'	2.21	0.40
35:1:3163:A:N1	35:1:3164:C:C4	2.89	0.40
35:1:3173:G:C2	59:AG:96:ALA:HB2	2.56	0.40
36:3:16:U:H2'	36:3:17:A:C8	2.56	0.40
33:k:218:ILE:HG13	33:k:276:THR:HG23	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
33:k:275:ARG:HA	33:k:275:ARG:HD3	1.97	0.40
38:l:64:SER:HA	38:l:75:PRO:HA	2.02	0.40
38:l:206:LEU:HB2	38:l:246:ARG:CZ	2.52	0.40
38:l:222:VAL:HA	38:l:223:PRO:HD3	1.96	0.40
39:m:40:HIS:CE1	54:2:69:LYS:HA	2.57	0.40
39:m:44:TYR:HB3	54:2:33:VAL:CG1	2.52	0.40
39:m:50:ARG:HH21	39:m:147:ASP:CG	2.27	0.40
42:p:73:PRO:HG3	42:p:233:TRP:CD1	2.55	0.40
42:p:105:LYS:O	42:p:109:LEU:HD22	2.21	0.40
45:s:21:ILE:CG2	45:s:23:VAL:HG23	2.51	0.40
50:x:67:ILE:HD13	50:x:67:ILE:HA	1.98	0.40
52:z:132:PHE:CE2	52:z:138:LEU:HD13	2.56	0.40
53:0:148:LEU:HD12	53:0:149:LYS:N	2.37	0.40
54:2:82:ASN:OD1	54:2:82:ASN:N	2.53	0.40
55:5:36:TYR:CD2	55:5:83:TYR:HD2	2.40	0.40
61:AI:18:ALA:O	61:AI:22:VAL:HG13	2.21	0.40
64:AL:30:LYS:HZ3	64:AL:40:GLN:CD	2.29	0.40
35:AR:92:G:OP1	68:DQ:46:LYS:NZ	2.48	0.40
35:AR:191:U:H2'	35:AR:192:C:C6	2.56	0.40
35:AR:352:A:N1	35:AR:365:A:H5"	2.37	0.40
35:AR:495:G:H2'	35:AR:496:C:C6	2.56	0.40
35:AR:802:C:C2	35:AR:803:C:C5	3.09	0.40
35:AR:2167:A:H2'	35:AR:2168:A:C8	2.56	0.40
35:AR:2997:G:H1'	35:AR:3395:G:O3'	2.21	0.40
35:AR:3197:G:C2	35:AR:3199:G:C5	3.10	0.40
35:AR:3366:G:H2'	35:AR:3367:C:C6	2.57	0.40
37:AT:65:A:C4	37:AT:66:A:C8	3.09	0.40
39:CG:119:TYR:CE1	39:CG:135:VAL:HG13	2.57	0.40
42:CJ:251:LYS:HD2	42:CJ:251:LYS:HA	1.92	0.40
44:CL:60:LEU:CD2	44:CL:160:PRO:HD2	2.51	0.40
45:CM:141:ARG:O	45:CM:145:LYS:HE2	2.22	0.40
51:CS:80:THR:O	51:CS:137:THR:HA	2.21	0.40
55:CW:81:LYS:HB2	55:CW:81:LYS:HE2	1.93	0.40
78:g:111:GLU:N	78:g:112:GLY:HA2	2.36	0.40
78:g:140:TYR:CE1	78:g:145:HIS:O	2.75	0.40
79:h:19:TRP:HB2	79:h:38:ARG:HD2	2.03	0.40
79:h:101:GLN:NE2	79:h:137:LYS:O	2.54	0.40
1:sR:58:U:O2'	1:sR:451:A:N3	2.46	0.40
1:sR:542:A:H1'	1:sR:543:C:H5'	2.03	0.40
1:sR:583:C:OP1	80:sR:1906:OHX:N6	2.55	0.40
1:sR:679:U:N3	1:sR:680:U:C2	2.89	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:sR:828:U:O4	1:sR:829:A:N6	2.54	0.40
1:sR:877:G:H5'	1:sR:937:C:H1'	2.02	0.40
1:sR:969:C:H4'	1:sR:1104:U:O2'	2.21	0.40
1:sR:1523:G:OP1	20:c9:78:LYS:NZ	2.47	0.40
1:sR:1530:C:OP2	72:d5:96:SER:OG	2.26	0.40
79:Rb:201:THR:HB	79:Rb:241:PHE:O	2.21	0.40
2:s0:17:LEU:O	2:s0:22:THR:HG22	2.21	0.40
7:s5:31:GLU:H	7:s5:31:GLU:HG3	1.72	0.40
9:s7:152:VAL:O	9:s7:183:PHE:HA	2.21	0.40
10:s8:64:ASN:O	10:s8:180:ASP:HA	2.22	0.40
17:c6:13:LYS:HD2	17:c6:14:LYS:H	1.86	0.40
21:d0:26:LEU:CD2	21:d0:114:VAL:HG12	2.52	0.40
24:d3:24:TRP:CE3	24:d3:30:LYS:HG3	2.56	0.40
72:d5:48:ASP:OD1	72:d5:48:ASP:N	2.49	0.40
76:d9:6:VAL:O	76:d9:7:TRP:CG	2.75	0.40
1:A:121:U:H2'	1:A:122:U:C6	2.56	0.40
1:A:127:G:C6	1:A:179:A:C4	3.09	0.40
1:A:155:U:H4'	8:H:59:GLN:N	2.36	0.40
1:A:1229:G:OP2	78:g:101:ALA:HA	2.22	0.40
1:A:1330:G:H2'	1:A:1331:A:O4'	2.22	0.40
1:A:1354:G:C5	1:A:1355:C:C5	3.09	0.40
1:A:1729:C:H2'	1:A:1730:A:O4'	2.20	0.40
1:A:1758:U:H2'	1:A:1759:C:C6	2.57	0.40
3:C:29:TRP:HA	3:C:46:THR:O	2.22	0.40
4:D:179:VAL:HG23	4:D:198:THR:H	1.87	0.40
5:E:115:ILE:CG2	70:i:110:TRP:HA	2.50	0.40
6:F:118:GLU:OE2	6:F:237:SER:N	2.51	0.40
7:G:86:GLN:O	7:G:86:GLN:HG2	2.22	0.40
7:G:174:LEU:HD13	7:G:210:ALA:CB	2.48	0.40
8:H:65:GLN:HG3	8:H:66:GLY:N	2.36	0.40
9:I:38:LEU:HA	9:I:41:LEU:HD23	2.02	0.40
11:K:27:GLU:HB3	11:K:39:LYS:HE3	2.02	0.40
11:K:93:LEU:HA	11:K:96:VAL:HG13	2.04	0.40
12:L:57:THR:O	12:L:58:GLN:HG2	2.22	0.40
15:P:66:ASP:O	15:P:69:ALA:HB3	2.22	0.40
22:W:85:TYR:CD1	22:W:85:TYR:O	2.75	0.40
23:X:11:LEU:HD13	23:X:73:GLY:C	2.47	0.40
24:Y:63:GLN:HA	24:Y:65:ASN:H	1.86	0.40
32:AE:31:ARG:HH21	32:AE:35:GLU:CD	2.30	0.40
33:CE:60:LEU:HD11	33:CE:62:ARG:HB2	2.04	0.40
35:1:197:G:H2'	35:1:198:A:C8	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:1:255:A:H2'	35:1:256:G:H8	1.86	0.40
35:1:259:C:H2'	35:1:260:C:H6	1.84	0.40
35:1:630:A:H2'	35:1:631:U:C6	2.55	0.40
35:1:728:G:H2'	35:1:729:C:H6	1.85	0.40
35:1:976:U:OP1	51:y:144:ARG:NH2	2.54	0.40
35:1:1074:U:O2'	35:1:1075:A:H2'	2.21	0.40
35:1:1347:U:H4'	38:l:305:ALA:HB2	2.03	0.40
35:1:1491:A:H2'	35:1:1492:G:O4'	2.21	0.40
35:1:1556:C:H5"	35:1:2169:G:H22	1.86	0.40
35:1:1718:G:H2'	35:1:1719:G:C8	2.55	0.40
35:1:1722:U:O4'	52:z:96:ILE:HG12	2.21	0.40
35:1:1887:A:H4'	33:k:227:GLU:HA	2.03	0.40
35:1:2192:C:O2'	35:1:2312:A:N1	2.51	0.40
35:1:2440:G:H2'	35:1:2441:A:C8	2.56	0.40
35:1:2534:G:O6	80:1:3499:OHX:N4	2.55	0.40
35:1:2592:G:N7	80:1:3433:OHX:N1	2.69	0.40
36:3:43:U:C4	36:3:44:C:C5	3.09	0.40
37:4:118:C:H2'	37:4:119:C:H6	1.86	0.40
31:j:29:LEU:O	31:j:123:ARG:NH2	2.55	0.40
33:k:112:ASP:HA	33:k:115:LYS:HB2	2.03	0.40
40:n:67:GLY:HA3	40:n:68:PRO:C	2.47	0.40
44:r:205:SER:O	44:r:209:ASN:HB2	2.22	0.40
46:t:8:PRO:HB2	51:y:166:LEU:HG	2.04	0.40
55:5:25:ASN:OD1	55:5:25:ASN:N	2.55	0.40
59:AG:90:PRO:HG2	59:AG:93:THR:HG23	2.02	0.40
62:AJ:61:ILE:HD12	62:AJ:62:ARG:HB2	2.02	0.40
67:AO:11:ARG:HG3	67:AO:11:ARG:HH11	1.86	0.40
35:AR:22:G:O4'	37:AT:104:A:H1'	2.22	0.40
35:AR:542:G:C2	35:AR:543:C:C4	3.10	0.40
35:AR:890:C:O2'	35:AR:2324:A:N3	2.52	0.40
35:AR:1079:A:O3'	39:CG:140:ARG:HB2	2.21	0.40
35:AR:1181:U:O4	49:CQ:21:SER:OG	2.34	0.40
35:AR:1456:A:N6	35:AR:1477:A:H4'	2.37	0.40
35:AR:2563:G:H2'	35:AR:2564:G:O4'	2.21	0.40
35:AR:2840:C:H2'	35:AR:2841:G:O4'	2.22	0.40
35:AR:3364:C:H2'	35:AR:3365:U:C6	2.57	0.40
43:CK:26:LYS:HG3	43:CK:35:THR:HG22	2.04	0.40
46:CN:68:LYS:HG2	46:CN:69:VAL:H	1.87	0.40
50:CR:84:PRO:O	50:CR:88:VAL:HG13	2.21	0.40
52:CT:158:GLU:C	52:CT:160:GLU:H	2.28	0.40
32:DF:29:ALA:HB3	32:DF:30:PRO:HD3	2.03	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:DK:58:ILE:HA	62:DK:61:ILE:HG12	2.02	0.40
72:a:84:GLU:CG	72:a:89:ILE:HD11	2.51	0.40
78:g:92:LYS:HE2	78:g:92:LYS:HB2	1.86	0.40
79:h:81:LEU:HA	79:h:81:LEU:HD23	1.79	0.40
79:h:158:PRO:HD2	79:h:208:GLY:CA	2.50	0.40
1:sR:384:G:OP1	80:sR:1949:OHX:N3	2.54	0.40
1:sR:447:U:OP1	6:s4:49:ARG:NH1	2.55	0.40
1:sR:481:A:H2'	1:sR:482:U:C6	2.57	0.40
1:sR:534:A:C5	1:sR:535:A:C8	3.10	0.40
1:sR:956:C:C2	1:sR:957:G:C8	3.10	0.40
1:sR:1351:G:H5"	17:c6:66:ARG:NH2	2.28	0.40
1:sR:1689:A:H2'	1:sR:1690:G:O4'	2.21	0.40
6:s4:151:ASP:O	6:s4:154:ILE:HD12	2.21	0.40
7:s5:158:GLN:HE21	7:s5:225:ARG:HD2	1.86	0.40
7:s5:163:SER:CB	75:d8:48:VAL:HG22	2.51	0.40
7:s5:200:ASN:HB3	7:s5:208:SER:CB	2.51	0.40
8:s6:137:ARG:CD	8:s6:177:ARG:HD2	2.50	0.40
8:s6:166:GLU:CG	8:s6:167:LYS:HG2	2.51	0.40
9:s7:150:GLN:HB2	9:s7:181:ILE:HG22	2.03	0.40
12:c0:8:ARG:O	12:c0:12:HIS:ND1	2.52	0.40
12:c0:77:ARG:HE	12:c0:82:LEU:C	2.26	0.40
14:c3:64:ARG:O	14:c3:68:GLY:HA2	2.22	0.40
19:c8:32:LEU:HD21	19:c8:69:ILE:CD1	2.52	0.40
20:c9:104:VAL:O	20:c9:108:LEU:HD13	2.22	0.40
23:d2:106:THR:HG21	23:d2:121:VAL:HG23	2.04	0.40
24:d3:124:VAL:HG12	24:d3:132:LEU:HD11	2.03	0.40
72:d5:68:ARG:HD3	72:d5:68:ARG:N	2.35	0.40
74:d7:23:THR:O	74:d7:24:LEU:C	2.64	0.40
1:A:71:A:C2	1:A:81:G:C6	3.10	0.40
1:A:240:U:H4'	1:A:241:U:OP2	2.22	0.40
1:A:386:G:H3'	87:A:2214:HOH:O	2.22	0.40
1:A:386:G:OP2	10:J:25:ARG:NH2	2.51	0.40
1:A:649:U:O2'	1:A:650:U:O5'	2.26	0.40
1:A:1069:A:H2'	1:A:1070:C:H6	1.86	0.40
1:A:1330:G:H22	5:E:204:ASP:CG	2.27	0.40
1:A:1370:U:O4	80:A:1961:OHX:N1	2.54	0.40
2:B:172:LEU:O	2:B:176:LEU:HD12	2.22	0.40
7:G:43:PHE:O	7:G:44:ASN:C	2.63	0.40
7:G:189:THR:HG23	7:G:192:GLU:H	1.87	0.40
12:L:76:LEU:HD23	12:L:76:LEU:H	1.86	0.40
13:M:93:TYR:O	13:M:95:PRO:HD3	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:O:101:HIS:HA	14:O:104:ARG:HE	1.86	0.40
17:R:102:LYS:HA	17:R:105:LEU:HD12	2.04	0.40
19:T:111:ASP:O	19:T:115:ARG:HG2	2.21	0.40
21:V:74:GLU:CG	21:V:75:GLY:H	2.34	0.40
24:Y:86:PHE:HD1	24:Y:87:VAL:H	1.70	0.40
26:DB:87:LEU:HD21	26:DB:127:ASN:CB	2.52	0.40
26:DB:122:HIS:CE1	42:CJ:26:LEU:HD13	2.57	0.40
28:DC:111:LYS:HA	28:DC:129:PHE:O	2.21	0.40
31:CD:67:TYR:O	31:CD:68:LYS:HG3	2.22	0.40
31:CD:103:PRO:HG2	31:CD:106:SER:OG	2.22	0.40
33:CE:43:LEU:HD23	33:CE:183:LEU:HD21	2.04	0.40
33:CE:53:MET:CG	33:CE:77:THR:HG22	2.52	0.40
33:CE:151:ILE:O	33:CE:155:ALA:HB3	2.21	0.40
35:1:12:A:H1'	58:8:37:THR:HG21	2.04	0.40
35:1:280:U:O2	35:1:282:G:H3'	2.21	0.40
35:1:503:C:H2'	35:1:504:A:H8	1.87	0.40
35:1:575:G:H2'	35:1:576:C:H6	1.87	0.40
35:1:1004:U:C4	35:1:1005:G:N7	2.89	0.40
35:1:1128:U:C2	35:1:2828:G:O4'	2.75	0.40
35:1:1150:A:N7	35:1:1310:G:H5'	2.37	0.40
35:1:1447:G:O2'	35:1:2355:G:O6	2.35	0.40
35:1:1623:G:H2'	35:1:1624:G:H8	1.85	0.40
35:1:1861:G:O2'	35:1:3066:U:H5"	2.22	0.40
35:1:1949:G:C2	35:1:1950:U:C4	3.10	0.40
35:1:2133:U:O4	35:1:2147:A:H2	2.05	0.40
35:1:2508:U:H2'	35:1:2509:U:H6	1.87	0.40
35:1:2541:U:H1'	35:1:2542:U:P	2.62	0.40
35:1:3046:A:P	33:k:275:ARG:HH12	2.43	0.40
35:1:3215:A:H1'	40:n:161:ALA:HB2	2.03	0.40
36:3:46:A:P	39:m:158:ARG:HH11	2.44	0.40
37:4:53:A:C4	37:4:54:A:C8	3.09	0.40
37:4:93:U:H2'	37:4:94:C:O4'	2.22	0.40
33:k:347:SER:C	33:k:349:LYS:H	2.28	0.40
38:l:74:ILE:O	38:l:74:ILE:HD12	2.22	0.40
39:m:180:PHE:HD1	39:m:180:PHE:HA	1.76	0.40
41:o:189:ILE:HG23	41:o:190:THR:N	2.36	0.40
43:q:1:MET:HE2	43:q:3:TYR:CE1	2.56	0.40
43:q:13:PRO:HG2	43:q:16:VAL:HG22	2.02	0.40
43:q:104:VAL:CG1	43:q:106:LYS:HE2	2.51	0.40
44:r:145:LYS:HD2	44:r:167:LEU:HD21	2.03	0.40
48:v:146:ALA:HA	48:v:149:ASN:OD1	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:6:40:LYS:HE2	56:6:57:MET:HE3	2.03	0.40
35:AR:173:G:N7	80:AR:3580:OHX:N1	2.70	0.40
35:AR:434:U:H2'	35:AR:435:C:C6	2.57	0.40
35:AR:948:C:H2'	35:AR:949:C:C6	2.57	0.40
35:AR:1228:C:H2'	35:AR:1229:G:C8	2.55	0.40
35:AR:1240:A:N6	35:AR:1241:U:O4	2.55	0.40
35:AR:1294:A:N3	35:AR:1295:G:C8	2.90	0.40
35:AR:1488:G:H21	60:DI:12:PRO:CG	2.35	0.40
35:AR:1601:U:H2'	35:AR:1603:A:OP2	2.22	0.40
35:AR:1603:A:OP2	52:CT:38:ARG:NH1	2.55	0.40
35:AR:1655:G:H3'	35:AR:1656:A:H2'	2.03	0.40
35:AR:1677:G:OP1	55:CW:100:THR:HA	2.21	0.40
35:AR:2441:A:C2	35:AR:2507:C:H1'	2.57	0.40
35:AR:3016:A:C4	35:AR:3017:A:C8	3.10	0.40
35:AR:3136:G:C5	35:AR:3137:C:C5	3.10	0.40
36:AS:19:C:H2'	36:AS:20:A:C8	2.57	0.40
36:AS:113:C:H2'	36:AS:114:U:O4'	2.22	0.40
37:AT:71:A:H4'	37:AT:72:A:O5'	2.21	0.40
37:AT:98:U:H2'	37:AT:99:C:O4'	2.21	0.40
39:CG:219:PHE:O	39:CG:219:PHE:CD1	2.74	0.40
42:CJ:106:LYS:O	42:CJ:106:LYS:HG3	2.20	0.40
42:CJ:150:LEU:HD22	42:CJ:215:VAL:HG22	2.03	0.40
48:CP:85:THR:HA	68:DQ:51:GLY:CA	2.51	0.40
50:CR:132:ALA:O	50:CR:135:ARG:NH1	2.55	0.40
54:CV:126:VAL:O	54:CV:127:GLN:C	2.63	0.40
56:CX:28:ASN:HD21	56:CX:112:SER:H	1.70	0.40
56:CX:86:ARG:HD2	56:CX:92:PHE:CE1	2.57	0.40
57:CY:82:ILE:O	57:CY:83:THR:C	2.65	0.40
61:DJ:95:PHE:CE1	61:DJ:99:GLN:HG2	2.56	0.40
63:DL:31:LYS:O	63:DL:33:THR:HG23	2.21	0.40
68:DQ:28:TYR:CE1	68:DQ:30:ALA:HA	2.57	0.40
79:h:62:LYS:O	79:h:92:TRP:HH2	2.04	0.40
1:sR:209:U:H2'	1:sR:210:A:H8	1.86	0.40
1:sR:1080:U:C2'	1:sR:1081:A:H5'	2.51	0.40
1:sR:1579:U:O2'	17:c6:139:GLN:HB2	2.22	0.40
1:sR:1620:C:O2'	1:sR:1621:U:OP1	2.31	0.40
1:sR:1702:A:H3'	1:sR:1703:C:C6	2.56	0.40
1:sR:1737:G:H2'	1:sR:1738:U:C6	2.56	0.40
79:Rb:74:THR:HG22	79:Rb:79:TYR:O	2.20	0.40
79:Rb:93:ASP:HB3	79:Rb:96:THR:HG21	2.03	0.40
79:Rb:114:ASP:OD2	79:Rb:156:VAL:HG22	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:Rb:150:TRP:CZ2	18:c7:34:LEU:HA	2.56	0.40
79:Rb:206:PRO:HG2	79:Rb:247:PRO:HA	2.03	0.40
2:s0:123:VAL:HG12	2:s0:124:THR:N	2.36	0.40
3:s1:164:ILE:O	3:s1:167:VAL:HG12	2.22	0.40
3:s1:180:THR:CG2	3:s1:183:GLN:H	2.35	0.40
5:s3:65:ARG:O	5:s3:69:LEU:HD23	2.22	0.40
5:s3:191:ASP:OD1	5:s3:191:ASP:C	2.65	0.40
6:s4:7:LYS:HD2	6:s4:7:LYS:HA	1.80	0.40
6:s4:49:ARG:HG3	6:s4:55:ALA:O	2.22	0.40
9:s7:141:ARG:NH1	23:d2:49:GLU:OE1	2.54	0.40
10:s8:170:SER:OG	10:s8:181:GLY:HA2	2.22	0.40
14:c3:40:TYR:HD1	14:c3:40:TYR:HA	1.79	0.40
14:c3:99:ARG:HG3	14:c3:115:LEU:CD2	2.51	0.40
17:c6:24:ALA:HB2	17:c6:92:TYR:OH	2.22	0.40
17:c6:65:ILE:CD1	17:c6:65:ILE:CA	2.99	0.40
17:c6:93:HIS:HB3	17:c6:102:LYS:HB2	2.02	0.40
18:c7:41:ILE:HD12	18:c7:41:ILE:N	2.36	0.40
72:d5:43:ASP:OD1	72:d5:45:GLU:HG2	2.21	0.40
78:e1:108:VAL:HB	78:e1:114:VAL:HG11	2.03	0.40

All (6) 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)
43:CK:138:THR:OG1	45:CM:75:LYS:NZ[2_746]	1.98	0.22
35:AR:1242:G:O6	39:CG:206:GLN:NE2[2_746]	2.10	0.10
1:A:221:A:O5'	42:p:84:ARG:NH2[2_645]	2.13	0.07
42:CJ:111:LYS:NZ	1:sR:823:G:O2'[2_656]	2.17	0.03
1:A:236:A:O2'	37:4:158:U:O2'[2_645]	2.19	0.01
35:1:3264:G:O2'	49:CQ:192:LYS:NZ[1_455]	2.19	0.01

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

The Analysed column shows the number of residues for which the backbone conformation was

analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	B	204/252 (81%)	186 (91%)	18 (9%)	0	100	100
2	s0	204/252 (81%)	191 (94%)	13 (6%)	0	100	100
3	C	212/255 (83%)	197 (93%)	15 (7%)	0	100	100
3	s1	214/255 (84%)	212 (99%)	2 (1%)	0	100	100
4	D	215/254 (85%)	207 (96%)	8 (4%)	0	100	100
4	s2	215/254 (85%)	208 (97%)	7 (3%)	0	100	100
5	E	221/240 (92%)	215 (97%)	6 (3%)	0	100	100
5	s3	221/240 (92%)	213 (96%)	5 (2%)	3 (1%)	9	31
6	F	258/261 (99%)	253 (98%)	4 (2%)	1 (0%)	30	60
6	s4	258/261 (99%)	257 (100%)	1 (0%)	0	100	100
7	G	196/225 (87%)	191 (97%)	5 (3%)	0	100	100
7	s5	195/225 (87%)	188 (96%)	7 (4%)	0	100	100
8	H	224/236 (95%)	222 (99%)	2 (1%)	0	100	100
8	s6	216/236 (92%)	210 (97%)	5 (2%)	1 (0%)	25	56
9	I	182/190 (96%)	174 (96%)	7 (4%)	1 (0%)	25	56
9	s7	184/190 (97%)	174 (95%)	8 (4%)	2 (1%)	12	37
10	J	184/200 (92%)	177 (96%)	7 (4%)	0	100	100
10	s8	184/200 (92%)	181 (98%)	2 (1%)	1 (0%)	25	56
11	K	177/197 (90%)	171 (97%)	5 (3%)	1 (1%)	22	52
11	s9	183/197 (93%)	181 (99%)	2 (1%)	0	100	100
12	L	94/105 (90%)	89 (95%)	5 (5%)	0	100	100
12	c0	82/105 (78%)	74 (90%)	6 (7%)	2 (2%)	5	19
13	M	141/156 (90%)	139 (99%)	2 (1%)	0	100	100
13	c1	144/156 (92%)	140 (97%)	4 (3%)	0	100	100
14	O	148/151 (98%)	147 (99%)	1 (1%)	0	100	100
14	c3	148/151 (98%)	141 (95%)	7 (5%)	0	100	100
15	P	125/138 (91%)	120 (96%)	5 (4%)	0	100	100
15	c4	126/138 (91%)	120 (95%)	4 (3%)	2 (2%)	8	28
16	Q	115/142 (81%)	107 (93%)	8 (7%)	0	100	100
16	c5	125/142 (88%)	117 (94%)	6 (5%)	2 (2%)	8	28
17	R	139/143 (97%)	136 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
17	c6	140/143 (98%)	137 (98%)	2 (1%)	1 (1%)	19 49
18	S	111/136 (82%)	108 (97%)	3 (3%)	0	100 100
18	c7	113/136 (83%)	110 (97%)	2 (2%)	1 (1%)	14 43
19	T	143/146 (98%)	138 (96%)	3 (2%)	2 (1%)	9 31
19	c8	143/146 (98%)	132 (92%)	8 (6%)	3 (2%)	5 22
20	U	141/144 (98%)	134 (95%)	7 (5%)	0	100 100
20	c9	141/144 (98%)	141 (100%)	0	0	100 100
21	V	105/121 (87%)	100 (95%)	4 (4%)	1 (1%)	13 40
21	d0	98/121 (81%)	95 (97%)	3 (3%)	0	100 100
22	W	85/87 (98%)	80 (94%)	5 (6%)	0	100 100
22	d1	85/87 (98%)	81 (95%)	3 (4%)	1 (1%)	11 35
23	X	127/130 (98%)	126 (99%)	1 (1%)	0	100 100
23	d2	127/130 (98%)	127 (100%)	0	0	100 100
24	Y	142/145 (98%)	131 (92%)	10 (7%)	1 (1%)	19 49
24	d3	142/145 (98%)	135 (95%)	7 (5%)	0	100 100
25	Z	132/135 (98%)	130 (98%)	2 (2%)	0	100 100
25	d4	132/135 (98%)	125 (95%)	7 (5%)	0	100 100
26	AA	133/136 (98%)	129 (97%)	4 (3%)	0	100 100
26	DB	133/136 (98%)	128 (96%)	5 (4%)	0	100 100
27	9	124/127 (98%)	124 (100%)	0	0	100 100
27	DA	122/127 (96%)	122 (100%)	0	0	100 100
28	AB	146/149 (98%)	140 (96%)	4 (3%)	2 (1%)	9 31
28	DC	146/149 (98%)	142 (97%)	4 (3%)	0	100 100
29	AC	56/59 (95%)	52 (93%)	4 (7%)	0	100 100
29	DD	56/59 (95%)	54 (96%)	2 (4%)	0	100 100
30	AD	95/105 (90%)	95 (100%)	0	0	100 100
30	DE	95/105 (90%)	95 (100%)	0	0	100 100
31	CD	250/254 (98%)	248 (99%)	2 (1%)	0	100 100
31	j	250/254 (98%)	250 (100%)	0	0	100 100
32	AE	107/113 (95%)	104 (97%)	3 (3%)	0	100 100
32	DF	107/113 (95%)	102 (95%)	5 (5%)	0	100 100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
33	CE	384/387 (99%)	380 (99%)	4 (1%)	0	100	100
33	k	384/387 (99%)	378 (98%)	6 (2%)	0	100	100
34	AF	125/130 (96%)	124 (99%)	1 (1%)	0	100	100
34	DG	125/130 (96%)	124 (99%)	1 (1%)	0	100	100
38	CF	359/362 (99%)	356 (99%)	3 (1%)	0	100	100
38	l	359/362 (99%)	353 (98%)	5 (1%)	1 (0%)	37	66
39	CG	294/297 (99%)	288 (98%)	4 (1%)	2 (1%)	19	49
39	m	294/297 (99%)	286 (97%)	8 (3%)	0	100	100
40	CH	152/176 (86%)	151 (99%)	1 (1%)	0	100	100
40	n	152/176 (86%)	152 (100%)	0	0	100	100
41	CI	220/244 (90%)	213 (97%)	6 (3%)	1 (0%)	25	56
41	o	220/244 (90%)	218 (99%)	2 (1%)	0	100	100
42	CJ	231/256 (90%)	224 (97%)	7 (3%)	0	100	100
42	p	231/256 (90%)	230 (100%)	1 (0%)	0	100	100
43	CK	189/191 (99%)	188 (100%)	1 (0%)	0	100	100
43	q	189/191 (99%)	184 (97%)	5 (3%)	0	100	100
44	CL	207/221 (94%)	205 (99%)	2 (1%)	0	100	100
44	r	207/221 (94%)	204 (99%)	3 (1%)	0	100	100
45	CM	167/174 (96%)	164 (98%)	3 (2%)	0	100	100
45	s	167/174 (96%)	158 (95%)	9 (5%)	0	100	100
46	CN	191/199 (96%)	180 (94%)	11 (6%)	0	100	100
46	t	191/199 (96%)	184 (96%)	7 (4%)	0	100	100
47	CO	134/138 (97%)	134 (100%)	0	0	100	100
47	u	134/138 (97%)	132 (98%)	1 (1%)	1 (1%)	19	49
48	CP	201/204 (98%)	201 (100%)	0	0	100	100
48	v	201/204 (98%)	198 (98%)	3 (2%)	0	100	100
49	CQ	195/199 (98%)	195 (100%)	0	0	100	100
49	w	195/199 (98%)	195 (100%)	0	0	100	100
50	CR	153/184 (83%)	153 (100%)	0	0	100	100
50	x	172/184 (94%)	171 (99%)	1 (1%)	0	100	100
51	CS	183/186 (98%)	183 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
51	y	183/186 (98%)	180 (98%)	3 (2%)	0	100	100
52	CT	182/189 (96%)	177 (97%)	5 (3%)	0	100	100
52	z	181/189 (96%)	180 (99%)	1 (1%)	0	100	100
53	0	170/172 (99%)	170 (100%)	0	0	100	100
53	CU	170/172 (99%)	169 (99%)	1 (1%)	0	100	100
54	2	157/160 (98%)	153 (98%)	4 (2%)	0	100	100
54	CV	157/160 (98%)	152 (97%)	5 (3%)	0	100	100
55	5	98/121 (81%)	98 (100%)	0	0	100	100
55	CW	98/121 (81%)	98 (100%)	0	0	100	100
56	6	134/137 (98%)	134 (100%)	0	0	100	100
56	CX	134/137 (98%)	134 (100%)	0	0	100	100
57	7	65/155 (42%)	65 (100%)	0	0	100	100
57	CY	109/155 (70%)	107 (98%)	2 (2%)	0	100	100
58	8	119/142 (84%)	119 (100%)	0	0	100	100
58	CZ	116/142 (82%)	116 (100%)	0	0	100	100
59	AG	101/107 (94%)	99 (98%)	2 (2%)	0	100	100
59	DH	104/107 (97%)	102 (98%)	2 (2%)	0	100	100
60	AH	110/121 (91%)	109 (99%)	1 (1%)	0	100	100
60	DI	110/121 (91%)	108 (98%)	1 (1%)	1 (1%)	14	43
61	AI	117/120 (98%)	111 (95%)	5 (4%)	1 (1%)	14	43
61	DJ	117/120 (98%)	114 (97%)	1 (1%)	2 (2%)	7	27
62	AJ	97/100 (97%)	95 (98%)	2 (2%)	0	100	100
62	DK	95/100 (95%)	94 (99%)	1 (1%)	0	100	100
63	AK	85/88 (97%)	85 (100%)	0	0	100	100
63	DL	84/88 (96%)	84 (100%)	0	0	100	100
64	AL	75/78 (96%)	75 (100%)	0	0	100	100
64	DM	75/78 (96%)	72 (96%)	3 (4%)	0	100	100
65	AM	48/51 (94%)	48 (100%)	0	0	100	100
65	DN	48/51 (94%)	48 (100%)	0	0	100	100
66	AN	50/128 (39%)	50 (100%)	0	0	100	100
66	DO	50/128 (39%)	48 (96%)	2 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
67	AO	23/25 (92%)	23 (100%)	0	0	100 100
67	DP	23/25 (92%)	23 (100%)	0	0	100 100
68	AP	103/106 (97%)	96 (93%)	7 (7%)	0	100 100
68	DQ	103/106 (97%)	101 (98%)	2 (2%)	0	100 100
69	AQ	89/92 (97%)	86 (97%)	3 (3%)	0	100 100
69	DR	89/92 (97%)	87 (98%)	2 (2%)	0	100 100
70	i	122/273 (45%)	121 (99%)	0	1 (1%)	16 45
70	sM	61/273 (22%)	54 (88%)	7 (12%)	0	100 100
71	p0	119/312 (38%)	117 (98%)	2 (2%)	0	100 100
72	a	68/108 (63%)	66 (97%)	2 (3%)	0	100 100
72	d5	67/108 (62%)	65 (97%)	2 (3%)	0	100 100
73	b	89/119 (75%)	83 (93%)	6 (7%)	0	100 100
73	d6	95/119 (80%)	90 (95%)	5 (5%)	0	100 100
74	c	79/82 (96%)	76 (96%)	1 (1%)	2 (2%)	4 18
74	d7	79/82 (96%)	76 (96%)	3 (4%)	0	100 100
75	d	61/67 (91%)	61 (100%)	0	0	100 100
75	d8	61/67 (91%)	58 (95%)	3 (5%)	0	100 100
76	d9	51/56 (91%)	50 (98%)	1 (2%)	0	100 100
76	e	51/56 (91%)	51 (100%)	0	0	100 100
77	e0	60/63 (95%)	59 (98%)	0	1 (2%)	7 27
77	f	58/63 (92%)	58 (100%)	0	0	100 100
78	e1	35/152 (23%)	30 (86%)	4 (11%)	1 (3%)	3 15
78	g	69/152 (45%)	64 (93%)	5 (7%)	0	100 100
79	Rb	316/319 (99%)	309 (98%)	6 (2%)	1 (0%)	37 66
79	h	310/319 (97%)	299 (96%)	9 (3%)	2 (1%)	22 52
All	All	21787/24334 (90%)	21256 (98%)	486 (2%)	45 (0%)	44 73

All (45) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
9	I	112	ARG
11	K	134	ILE
19	T	3	LEU

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Mol	Chain	Res	Type
19	T	92	ILE
24	Y	89	ASN
47	u	9	ALA
61	AI	119	LYS
70	i	12	VAL
39	CG	21	ARG
39	CG	294	ALA
60	DI	82	ALA
61	DJ	119	LYS
74	c	62	ILE
74	c	75	GLU
79	h	167	VAL
79	h	318	ALA
79	Rb	162	ALA
5	s3	144	ALA
5	s3	220	PRO
8	s6	174	LYS
9	s7	64	VAL
9	s7	131	PHE
10	s8	101	ILE
12	c0	35	ILE
12	c0	70	GLU
15	c4	48	VAL
15	c4	50	ALA
16	c5	51	SER
16	c5	135	THR
18	c7	36	ASP
19	c8	92	ILE
19	c8	102	ALA
22	d1	42	GLU
77	e0	48	THR
78	e1	115	THR
21	V	32	LYS
28	AB	48	TYR
5	s3	221	SER
19	c8	14	ILE
38	l	292	SER
61	DJ	85	THR
17	c6	14	LYS
28	AB	24	LYS
6	F	193	GLY
41	CI	191	VAL

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	B	164/210 (78%)	158 (96%)	6 (4%)	29	64
2	s0	165/210 (79%)	156 (94%)	9 (6%)	18	48
3	C	191/224 (85%)	174 (91%)	17 (9%)	8	26
3	s1	192/224 (86%)	182 (95%)	10 (5%)	19	50
4	D	176/205 (86%)	170 (97%)	6 (3%)	32	67
4	s2	176/205 (86%)	168 (96%)	8 (4%)	23	56
5	E	182/195 (93%)	173 (95%)	9 (5%)	21	53
5	s3	182/195 (93%)	175 (96%)	7 (4%)	28	63
6	F	221/222 (100%)	216 (98%)	5 (2%)	45	77
6	s4	221/222 (100%)	206 (93%)	15 (7%)	13	38
7	G	173/191 (91%)	163 (94%)	10 (6%)	17	46
7	s5	172/191 (90%)	167 (97%)	5 (3%)	37	72
8	H	187/201 (93%)	178 (95%)	9 (5%)	21	54
8	s6	187/201 (93%)	177 (95%)	10 (5%)	19	49
9	I	165/170 (97%)	157 (95%)	8 (5%)	21	54
9	s7	165/170 (97%)	155 (94%)	10 (6%)	15	43
10	J	150/161 (93%)	136 (91%)	14 (9%)	7	23
10	s8	150/161 (93%)	141 (94%)	9 (6%)	16	44
11	K	155/166 (93%)	147 (95%)	8 (5%)	19	50
11	s9	158/166 (95%)	146 (92%)	12 (8%)	11	32
12	L	77/98 (79%)	72 (94%)	5 (6%)	14	40
12	c0	73/98 (74%)	69 (94%)	4 (6%)	18	48
13	M	129/137 (94%)	126 (98%)	3 (2%)	45	77
13	c1	129/137 (94%)	125 (97%)	4 (3%)	35	70
14	O	127/128 (99%)	120 (94%)	7 (6%)	18	48
14	c3	127/128 (99%)	122 (96%)	5 (4%)	27	62

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
15	P	81/105 (77%)	75 (93%)	6 (7%)	11 34
15	c4	97/105 (92%)	91 (94%)	6 (6%)	15 43
16	Q	97/118 (82%)	89 (92%)	8 (8%)	9 29
16	c5	101/118 (86%)	90 (89%)	11 (11%)	5 17
17	R	117/119 (98%)	103 (88%)	14 (12%)	4 13
17	c6	118/119 (99%)	114 (97%)	4 (3%)	32 67
18	S	94/124 (76%)	88 (94%)	6 (6%)	14 41
18	c7	92/124 (74%)	90 (98%)	2 (2%)	47 78
19	T	128/129 (99%)	120 (94%)	8 (6%)	15 42
19	c8	128/129 (99%)	123 (96%)	5 (4%)	27 62
20	U	115/116 (99%)	105 (91%)	10 (9%)	8 27
20	c9	115/116 (99%)	111 (96%)	4 (4%)	31 66
21	V	100/114 (88%)	89 (89%)	11 (11%)	5 16
21	d0	94/114 (82%)	87 (93%)	7 (7%)	11 34
22	W	74/74 (100%)	66 (89%)	8 (11%)	5 17
22	d1	74/74 (100%)	70 (95%)	4 (5%)	18 49
23	X	110/111 (99%)	108 (98%)	2 (2%)	54 82
23	d2	110/111 (99%)	110 (100%)	0	100 100
24	Y	119/120 (99%)	115 (97%)	4 (3%)	32 67
24	d3	119/120 (99%)	114 (96%)	5 (4%)	25 59
25	Z	112/113 (99%)	108 (96%)	4 (4%)	30 65
25	d4	112/113 (99%)	106 (95%)	6 (5%)	18 49
26	AA	115/116 (99%)	109 (95%)	6 (5%)	19 50
26	DB	115/116 (99%)	111 (96%)	4 (4%)	31 66
27	9	109/110 (99%)	106 (97%)	3 (3%)	38 73
27	DA	107/110 (97%)	101 (94%)	6 (6%)	17 47
28	AB	118/119 (99%)	111 (94%)	7 (6%)	16 45
28	DC	118/119 (99%)	112 (95%)	6 (5%)	20 51
29	AC	46/47 (98%)	46 (100%)	0	100 100
29	DD	46/47 (98%)	42 (91%)	4 (9%)	8 27
30	AD	81/88 (92%)	76 (94%)	5 (6%)	15 43

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
30	DE	81/88 (92%)	77 (95%)	4 (5%)	21	53
31	CD	193/196 (98%)	183 (95%)	10 (5%)	19	50
31	j	193/196 (98%)	190 (98%)	3 (2%)	58	84
32	AE	92/97 (95%)	88 (96%)	4 (4%)	25	57
32	DF	92/97 (95%)	89 (97%)	3 (3%)	33	68
33	CE	320/323 (99%)	300 (94%)	20 (6%)	15	42
33	k	320/323 (99%)	303 (95%)	17 (5%)	19	49
34	AF	109/111 (98%)	109 (100%)	0	100	100
34	DG	109/111 (98%)	104 (95%)	5 (5%)	23	55
38	CF	288/289 (100%)	266 (92%)	22 (8%)	11	32
38	l	288/289 (100%)	273 (95%)	15 (5%)	19	50
39	CG	244/245 (100%)	232 (95%)	12 (5%)	21	53
39	m	244/245 (100%)	234 (96%)	10 (4%)	26	60
40	CH	134/153 (88%)	131 (98%)	3 (2%)	47	78
40	n	134/153 (88%)	129 (96%)	5 (4%)	29	64
41	CI	186/205 (91%)	178 (96%)	8 (4%)	25	57
41	o	186/205 (91%)	179 (96%)	7 (4%)	28	63
42	CJ	187/208 (90%)	176 (94%)	11 (6%)	16	45
42	p	187/208 (90%)	185 (99%)	2 (1%)	70	90
43	CK	171/171 (100%)	161 (94%)	10 (6%)	17	46
43	q	171/171 (100%)	165 (96%)	6 (4%)	31	66
44	CL	177/187 (95%)	167 (94%)	10 (6%)	17	47
44	r	177/187 (95%)	170 (96%)	7 (4%)	27	61
45	CM	147/151 (97%)	136 (92%)	11 (8%)	11	33
45	s	147/151 (97%)	142 (97%)	5 (3%)	32	67
46	CN	154/159 (97%)	148 (96%)	6 (4%)	27	62
46	t	154/159 (97%)	150 (97%)	4 (3%)	41	74
47	CO	107/109 (98%)	103 (96%)	4 (4%)	29	64
47	u	107/109 (98%)	106 (99%)	1 (1%)	75	92
48	CP	175/176 (99%)	175 (100%)	0	100	100
48	v	175/176 (99%)	173 (99%)	2 (1%)	70	90

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
49	CQ	160/162 (99%)	153 (96%)	7 (4%)	24	57
49	w	160/162 (99%)	156 (98%)	4 (2%)	42	75
50	CR	125/146 (86%)	121 (97%)	4 (3%)	34	69
50	x	140/146 (96%)	134 (96%)	6 (4%)	25	57
51	CS	150/151 (99%)	146 (97%)	4 (3%)	40	73
51	y	150/151 (99%)	142 (95%)	8 (5%)	19	49
52	CT	150/154 (97%)	147 (98%)	3 (2%)	50	79
52	z	149/154 (97%)	144 (97%)	5 (3%)	32	67
53	0	156/156 (100%)	153 (98%)	3 (2%)	52	81
53	CU	156/156 (100%)	149 (96%)	7 (4%)	23	56
54	2	136/137 (99%)	132 (97%)	4 (3%)	37	72
54	CV	136/137 (99%)	133 (98%)	3 (2%)	47	78
55	5	87/107 (81%)	83 (95%)	4 (5%)	23	55
55	CW	87/107 (81%)	83 (95%)	4 (5%)	23	55
56	6	104/105 (99%)	97 (93%)	7 (7%)	13	39
56	CX	104/105 (99%)	103 (99%)	1 (1%)	73	91
57	7	56/129 (43%)	54 (96%)	2 (4%)	30	65
57	CY	58/129 (45%)	58 (100%)	0	100	100
58	8	104/118 (88%)	99 (95%)	5 (5%)	21	54
58	CZ	103/118 (87%)	101 (98%)	2 (2%)	52	81
59	AG	89/91 (98%)	86 (97%)	3 (3%)	32	67
59	DH	90/91 (99%)	86 (96%)	4 (4%)	24	57
60	AH	95/103 (92%)	89 (94%)	6 (6%)	15	42
60	DI	95/103 (92%)	90 (95%)	5 (5%)	19	49
61	AI	104/105 (99%)	103 (99%)	1 (1%)	73	91
61	DJ	104/105 (99%)	104 (100%)	0	100	100
62	AJ	81/82 (99%)	76 (94%)	5 (6%)	15	43
62	DK	79/82 (96%)	75 (95%)	4 (5%)	20	51
63	AK	70/71 (99%)	67 (96%)	3 (4%)	25	57
63	DL	70/71 (99%)	67 (96%)	3 (4%)	25	57
64	AL	68/69 (99%)	59 (87%)	9 (13%)	3	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
64	DM	68/69 (99%)	65 (96%)	3 (4%)	24 57
65	AM	45/46 (98%)	44 (98%)	1 (2%)	47 78
65	DN	45/46 (98%)	44 (98%)	1 (2%)	47 78
66	AN	47/116 (40%)	44 (94%)	3 (6%)	14 41
66	DO	47/116 (40%)	47 (100%)	0	100 100
67	AO	23/23 (100%)	22 (96%)	1 (4%)	25 57
67	DP	23/23 (100%)	21 (91%)	2 (9%)	8 27
68	AP	90/91 (99%)	86 (96%)	4 (4%)	24 57
68	DQ	90/91 (99%)	89 (99%)	1 (1%)	70 90
69	AQ	71/72 (99%)	70 (99%)	1 (1%)	62 86
69	DR	71/72 (99%)	68 (96%)	3 (4%)	25 59
70	i	97/228 (42%)	90 (93%)	7 (7%)	12 35
70	sM	54/228 (24%)	51 (94%)	3 (6%)	17 47
71	p0	105/254 (41%)	97 (92%)	8 (8%)	11 32
72	a	61/89 (68%)	57 (93%)	4 (7%)	14 39
72	d5	61/89 (68%)	55 (90%)	6 (10%)	6 21
73	b	82/100 (82%)	75 (92%)	7 (8%)	8 27
73	d6	83/100 (83%)	79 (95%)	4 (5%)	21 54
74	c	70/71 (99%)	65 (93%)	5 (7%)	12 36
74	d7	70/71 (99%)	65 (93%)	5 (7%)	12 36
75	d	56/60 (93%)	49 (88%)	7 (12%)	3 12
75	d8	56/60 (93%)	47 (84%)	9 (16%)	2 6
76	d9	47/49 (96%)	44 (94%)	3 (6%)	14 41
76	e	47/49 (96%)	45 (96%)	2 (4%)	25 57
77	e0	53/54 (98%)	49 (92%)	4 (8%)	11 33
77	f	51/54 (94%)	48 (94%)	3 (6%)	16 45
78	e1	34/135 (25%)	31 (91%)	3 (9%)	8 26
78	g	62/135 (46%)	53 (86%)	9 (14%)	2 8
79	Rb	260/262 (99%)	237 (91%)	23 (9%)	8 26
79	h	254/262 (97%)	232 (91%)	22 (9%)	8 27
All	All	18444/20440 (90%)	17546 (95%)	898 (5%)	21 53

All (898) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
2	B	7	PHE
2	B	45	VAL
2	B	158	VAL
2	B	168	HIS
2	B	185	ARG
2	B	189	VAL
3	C	32	ILE
3	C	41	ARG
3	C	48	VAL
3	C	50	LYS
3	C	56	SER
3	C	67	GLU
3	C	84	ILE
3	C	119	THR
3	C	128	LYS
3	C	143	THR
3	C	157	GLN
3	C	159	SER
3	C	169	SER
3	C	177	GLN
3	C	186	SER
3	C	208	GLN
3	C	232	HIS
4	D	53	ILE
4	D	83	ILE
4	D	116	LYS
4	D	153	SER
4	D	224	PHE
4	D	240	LEU
5	E	21	LEU
5	E	57	ASP
5	E	86	LEU
5	E	134	CYS
5	E	172	THR
5	E	179	GLN
5	E	218	LEU
5	E	223	LYS
5	E	224	ASP
6	F	24	SER
6	F	151	ASP
6	F	155	LYS
6	F	228	ILE

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Mol	Chain	Res	Type
6	F	247	SER
7	G	27	THR
7	G	42	LEU
7	G	54	LYS
7	G	63	GLN
7	G	92	ARG
7	G	124	LEU
7	G	139	ASN
7	G	186	ASN
7	G	208	SER
7	G	217	LEU
8	H	6	SER
8	H	25	ARG
8	H	37	ASP
8	H	68	LEU
8	H	79	LYS
8	H	82	SER
8	H	124	LEU
8	H	167	LYS
8	H	189	HIS
9	I	10	SER
9	I	29	ASN
9	I	31	SER
9	I	103	SER
9	I	108	GLN
9	I	147	ASN
9	I	156	SER
9	I	168	SER
10	J	11	ARG
10	J	12	SER
10	J	22	ARG
10	J	38	ILE
10	J	45	SER
10	J	46	VAL
10	J	66	SER
10	J	110	ARG
10	J	146	ARG
10	J	154	SER
10	J	155	SER
10	J	158	SER
10	J	161	SER
10	J	178	ARG

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Mol	Chain	Res	Type
11	K	3	ARG
11	K	22	SER
11	K	23	ARG
11	K	46	SER
11	K	60	LEU
11	K	70	LEU
11	K	92	LYS
11	K	161	THR
12	L	17	GLN
12	L	40	LEU
12	L	55	VAL
12	L	71	GLU
12	L	73	VAL
13	M	5	LEU
13	M	31	THR
13	M	143	SER
14	O	3	ARG
14	O	16	ILE
14	O	19	SER
14	O	25	TRP
14	O	32	SER
14	O	35	GLU
14	O	143	SER
15	P	38	THR
15	P	79	VAL
15	P	93	THR
15	P	115	ILE
15	P	123	SER
15	P	125	SER
16	Q	15	HIS
16	Q	20	VAL
16	Q	36	LEU
16	Q	58	LYS
16	Q	70	ASN
16	Q	76	VAL
16	Q	77	ARG
16	Q	94	VAL
17	R	8	GLN
17	R	28	LEU
17	R	29	ILE
17	R	49	TYR
17	R	63	ILE

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Mol	Chain	Res	Type
17	R	83	GLN
17	R	89	LEU
17	R	113	ASP
17	R	117	LEU
17	R	118	ILE
17	R	121	SER
17	R	127	LYS
17	R	139	GLN
17	R	141	SER
18	S	9	VAL
18	S	40	THR
18	S	43	SER
18	S	54	THR
18	S	89	SER
18	S	112	SER
19	T	10	SER
19	T	13	HIS
19	T	25	ASN
19	T	60	GLU
19	T	67	GLU
19	T	86	LEU
19	T	100	THR
19	T	140	THR
20	U	27	LYS
20	U	38	LYS
20	U	41	SER
20	U	60	SER
20	U	97	SER
20	U	99	SER
20	U	119	LYS
20	U	125	SER
20	U	133	ASP
20	U	135	ILE
21	V	15	GLN
21	V	20	ILE
21	V	25	THR
21	V	26	LEU
21	V	31	VAL
21	V	34	LEU
21	V	58	LEU
21	V	93	LEU
21	V	106	ILE

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Mol	Chain	Res	Type
21	V	112	VAL
21	V	118	VAL
22	W	4	ASP
22	W	5	LYS
22	W	49	GLU
22	W	56	SER
22	W	61	SER
22	W	66	ASP
22	W	68	SER
22	W	86	SER
23	X	6	VAL
23	X	83	ILE
24	Y	66	SER
24	Y	107	PHE
24	Y	126	LYS
24	Y	131	SER
25	Z	10	ARG
25	Z	78	SER
25	Z	93	ARG
25	Z	104	SER
26	AA	36	HIS
26	AA	72	ILE
26	AA	88	ASP
26	AA	93	LYS
26	AA	98	THR
26	AA	105	SER
27	DA	5	SER
27	DA	10	SER
27	DA	62	SER
27	DA	67	GLU
27	DA	81	GLN
27	DA	102	SER
28	AB	3	SER
28	AB	4	ARG
28	AB	8	THR
28	AB	16	SER
28	AB	26	ARG
28	AB	27	LYS
28	AB	67	HIS
26	DB	5	LEU
26	DB	33	SER
26	DB	68	ILE

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Mol	Chain	Res	Type
26	DB	97	SER
28	DC	56	VAL
28	DC	77	LYS
28	DC	78	LEU
28	DC	93	SER
28	DC	98	THR
28	DC	135	GLU
30	AD	18	ILE
30	AD	50	VAL
30	AD	63	SER
30	AD	97	ASP
30	AD	98	SER
31	CD	61	VAL
31	CD	93	LYS
31	CD	97	ASN
31	CD	142	ASP
31	CD	143	GLU
31	CD	159	SER
31	CD	193	ARG
31	CD	223	SER
31	CD	231	SER
31	CD	251	LYS
29	DD	4	SER
29	DD	26	THR
29	DD	31	SER
29	DD	33	LYS
32	AE	73	LEU
32	AE	84	ASP
32	AE	94	GLU
32	AE	100	SER
33	CE	5	LYS
33	CE	10	ARG
33	CE	85	VAL
33	CE	89	VAL
33	CE	104	THR
33	CE	111	SER
33	CE	139	GLN
33	CE	144	ILE
33	CE	169	THR
33	CE	192	VAL
33	CE	200	GLU
33	CE	205	VAL

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Mol	Chain	Res	Type
33	CE	238	LEU
33	CE	274	SER
33	CE	296	THR
33	CE	297	SER
33	CE	319	ASN
33	CE	341	SER
33	CE	351	LEU
33	CE	354	VAL
30	DE	67	VAL
30	DE	94	GLU
30	DE	99	ASP
30	DE	100	ILE
31	j	130	SER
31	j	159	SER
31	j	226	SER
33	k	20	LYS
33	k	41	VAL
33	k	45	SER
33	k	85	VAL
33	k	90	VAL
33	k	104	THR
33	k	173	GLN
33	k	189	SER
33	k	192	VAL
33	k	201	LYS
33	k	205	VAL
33	k	207	SER
33	k	274	SER
33	k	337	THR
33	k	346	THR
33	k	361	THR
33	k	372	THR
38	l	7	THR
38	l	27	SER
38	l	41	SER
38	l	85	SER
38	l	92	ASN
38	l	133	SER
38	l	182	LEU
38	l	206	LEU
38	l	261	VAL
38	l	270	SER

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Mol	Chain	Res	Type
38	l	308	LYS
38	l	319	LYS
38	l	327	LEU
38	l	341	SER
38	l	358	THR
39	m	10	SER
39	m	44	TYR
39	m	66	SER
39	m	67	SER
39	m	68	THR
39	m	93	THR
39	m	132	THR
39	m	205	SER
39	m	261	THR
39	m	278	SER
40	n	2	SER
40	n	12	SER
40	n	96	VAL
40	n	162	SER
40	n	164	SER
41	o	93	ASN
41	o	98	LYS
41	o	156	ILE
41	o	158	LYS
41	o	179	LEU
41	o	180	SER
41	o	185	ILE
42	p	67	ILE
42	p	156	ASP
43	q	22	SER
43	q	48	VAL
43	q	92	TYR
43	q	116	ASN
43	q	150	SER
43	q	161	LEU
44	r	39	LYS
44	r	128	ARG
44	r	141	LYS
44	r	143	SER
44	r	145	LYS
44	r	190	VAL
44	r	201	SER

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Mol	Chain	Res	Type
45	s	7	ASN
45	s	16	LYS
45	s	31	THR
45	s	161	SER
45	s	167	TYR
46	t	6	ASN
46	t	46	ILE
46	t	165	SER
46	t	175	SER
47	u	91	CYS
48	v	71	ARG
48	v	176	LYS
49	w	3	VAL
49	w	22	VAL
49	w	89	SER
49	w	188	SER
50	x	14	SER
50	x	42	THR
50	x	45	GLN
50	x	118	GLN
50	x	141	SER
50	x	144	SER
51	y	6	THR
51	y	17	THR
51	y	41	ASP
51	y	92	ARG
51	y	111	ARG
51	y	129	VAL
51	y	185	LYS
51	y	186	VAL
52	z	61	SER
52	z	63	THR
52	z	128	LYS
52	z	146	LYS
52	z	180	LYS
53	0	85	SER
53	0	117	ARG
53	0	169	SER
54	2	9	SER
54	2	19	PHE
54	2	104	GLU
54	2	158	THR

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Mol	Chain	Res	Type
55	5	10	LYS
55	5	89	LEU
55	5	91	ASP
55	5	105	LEU
56	6	2	SER
56	6	7	GLN
56	6	53	SER
56	6	112	SER
56	6	115	THR
56	6	131	SER
56	6	135	VAL
57	7	35	LYS
57	7	64	THR
58	8	26	VAL
58	8	29	SER
58	8	78	ASP
58	8	83	VAL
58	8	109	LYS
27	9	10	SER
27	9	55	GLU
27	9	125	LYS
59	AG	15	SER
59	AG	78	SER
59	AG	107	ILE
60	AH	5	VAL
60	AH	22	VAL
60	AH	44	CYS
60	AH	46	ASP
60	AH	51	LEU
60	AH	79	SER
61	AI	103	LYS
62	AJ	13	LYS
62	AJ	38	LYS
62	AJ	51	SER
62	AJ	57	LEU
62	AJ	88	GLU
63	AK	35	SER
63	AK	67	LEU
63	AK	85	LYS
64	AL	10	GLN
64	AL	27	ILE
64	AL	36	LYS

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Mol	Chain	Res	Type
64	AL	53	THR
64	AL	56	ILE
64	AL	66	ILE
64	AL	67	GLN
64	AL	68	SER
64	AL	72	THR
65	AM	30	ARG
66	AN	99	CYS
66	AN	111	ARG
66	AN	124	LYS
67	AO	20	VAL
68	AP	35	LEU
68	AP	48	SER
68	AP	77	CYS
68	AP	100	LYS
69	AQ	59	CYS
70	i	28	SER
70	i	48	ARG
70	i	74	LYS
70	i	75	ASP
70	i	102	THR
70	i	118	SER
70	i	137	GLU
38	CF	10	SER
38	CF	27	SER
38	CF	71	VAL
38	CF	77	VAL
38	CF	133	SER
38	CF	151	VAL
38	CF	182	LEU
38	CF	200	THR
38	CF	202	ARG
38	CF	206	LEU
38	CF	207	VAL
38	CF	208	VAL
38	CF	213	ASN
38	CF	233	LEU
38	CF	252	GLU
38	CF	256	THR
38	CF	269	SER
38	CF	287	THR
38	CF	293	SER

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Mol	Chain	Res	Type
38	CF	313	LEU
38	CF	322	GLN
38	CF	333	VAL
39	CG	9	SER
39	CG	13	SER
39	CG	44	TYR
39	CG	66	SER
39	CG	92	LEU
39	CG	93	THR
39	CG	113	LEU
39	CG	118	THR
39	CG	197	SER
39	CG	232	ASP
39	CG	241	THR
39	CG	269	SER
40	CH	48	ARG
40	CH	93	VAL
40	CH	155	LEU
41	CI	92	ILE
41	CI	93	ASN
41	CI	110	ARG
41	CI	113	SER
41	CI	142	SER
41	CI	158	LYS
41	CI	160	ARG
41	CI	208	SER
42	CJ	27	THR
42	CJ	40	VAL
42	CJ	56	VAL
42	CJ	108	ARG
42	CJ	126	SER
42	CJ	175	VAL
42	CJ	197	VAL
42	CJ	202	GLU
42	CJ	207	ASP
42	CJ	211	LEU
42	CJ	221	ASN
43	CK	16	VAL
43	CK	33	THR
43	CK	41	ILE
43	CK	80	THR
43	CK	101	VAL

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Mol	Chain	Res	Type
43	CK	126	VAL
43	CK	133	THR
43	CK	147	SER
43	CK	151	VAL
43	CK	182	SER
44	CL	28	ASP
44	CL	29	SER
44	CL	54	SER
44	CL	80	SER
44	CL	98	ARG
44	CL	116	ARG
44	CL	143	SER
44	CL	174	THR
44	CL	205	SER
44	CL	211	ARG
45	CM	7	ASN
45	CM	19	LEU
45	CM	23	VAL
45	CM	28	ASP
45	CM	44	THR
45	CM	95	ASN
45	CM	107	ASP
45	CM	119	SER
45	CM	122	ILE
45	CM	137	ARG
45	CM	161	SER
46	CN	4	SER
46	CN	5	LYS
46	CN	70	ARG
46	CN	121	SER
46	CN	153	ASP
46	CN	182	ILE
47	CO	53	VAL
47	CO	63	VAL
47	CO	66	THR
47	CO	90	VAL
49	CQ	3	VAL
49	CQ	22	VAL
49	CQ	44	SER
49	CQ	68	ARG
49	CQ	129	LEU
49	CQ	180	SER

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Mol	Chain	Res	Type
49	CQ	187	GLU
50	CR	9	THR
50	CR	37	ASN
50	CR	121	GLN
50	CR	144	SER
51	CS	55	SER
51	CS	93	ILE
51	CS	95	GLU
51	CS	147	ARG
52	CT	128	LYS
52	CT	142	ILE
52	CT	153	LYS
53	CU	52	LYS
53	CU	77	VAL
53	CU	87	THR
53	CU	124	LEU
53	CU	135	VAL
53	CU	140	VAL
53	CU	145	THR
54	CV	18	ASP
54	CV	19	PHE
54	CV	83	ARG
55	CW	57	THR
55	CW	72	SER
55	CW	97	SER
55	CW	108	TYR
56	CX	14	SER
58	CZ	59	SER
58	CZ	89	LYS
32	DF	61	LYS
32	DF	82	GLU
32	DF	100	SER
34	DG	4	LEU
34	DG	12	LYS
34	DG	40	SER
34	DG	71	HIS
34	DG	73	THR
59	DH	56	SER
59	DH	74	THR
59	DH	82	ARG
59	DH	97	SER
60	DI	51	LEU

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Mol	Chain	Res	Type
60	DI	80	ARG
60	DI	84	CYS
60	DI	102	LYS
60	DI	104	VAL
62	DK	2	THR
62	DK	19	SER
62	DK	64	SER
62	DK	94	ILE
63	DL	15	SER
63	DL	67	LEU
63	DL	87	SER
64	DM	31	LEU
64	DM	72	THR
64	DM	73	LEU
65	DN	5	LYS
67	DP	16	LYS
67	DP	25	LYS
68	DQ	17	CYS
69	DR	33	GLN
69	DR	59	CYS
69	DR	81	SER
71	p0	7	LYS
71	p0	21	GLU
71	p0	25	LEU
71	p0	26	PHE
71	p0	34	SER
71	p0	93	LEU
71	p0	186	THR
71	p0	188	VAL
70	sM	53	ARG
70	sM	79	SER
70	sM	83	LYS
72	a	40	VAL
72	a	42	LEU
72	a	65	LEU
72	a	93	SER
73	b	43	ASN
73	b	45	VAL
73	b	52	ASP
73	b	76	SER
73	b	83	ILE
73	b	89	ARG

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Mol	Chain	Res	Type
73	b	98	PRO
74	c	7	LEU
74	c	14	SER
74	c	33	LEU
74	c	48	SER
74	c	60	SER
75	d	5	THR
75	d	8	THR
75	d	12	VAL
75	d	28	VAL
75	d	30	VAL
75	d	50	GLU
75	d	55	VAL
76	e	26	SER
76	e	28	THR
77	f	5	HIS
77	f	37	ARG
77	f	50	VAL
78	g	98	VAL
78	g	99	LYS
78	g	100	LEU
78	g	105	TYR
78	g	106	TYR
78	g	108	VAL
78	g	119	ARG
78	g	121	CYS
78	g	122	SER
79	h	45	TRP
79	h	46	LYS
79	h	47	LEU
79	h	48	THR
79	h	51	ASP
79	h	53	LYS
79	h	68	VAL
79	h	73	LEU
79	h	99	THR
79	h	112	SER
79	h	115	ILE
79	h	116	ASP
79	h	117	LYS
79	h	129	LYS
79	h	152	SER

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Mol	Chain	Res	Type
79	h	164	ASP
79	h	233	THR
79	h	237	GLN
79	h	242	SER
79	h	258	THR
79	h	282	SER
79	h	291	SER
79	Rb	10	ARG
79	Rb	13	LEU
79	Rb	16	HIS
79	Rb	22	SER
79	Rb	32	LEU
79	Rb	64	HIS
79	Rb	70	ASP
79	Rb	76	ASP
79	Rb	104	VAL
79	Rb	126	SER
79	Rb	133	VAL
79	Rb	137	LYS
79	Rb	140	CYS
79	Rb	168	THR
79	Rb	188	ILE
79	Rb	203	THR
79	Rb	224	ASN
79	Rb	242	SER
79	Rb	245	PHE
79	Rb	264	SER
79	Rb	297	ASP
79	Rb	302	PHE
79	Rb	308	ASN
2	s0	39	ASN
2	s0	72	ASP
2	s0	116	LYS
2	s0	148	ASP
2	s0	153	SER
2	s0	167	LYS
2	s0	168	HIS
2	s0	177	LEU
2	s0	188	LEU
3	s1	36	SER
3	s1	61	LEU
3	s1	67	GLU

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Mol	Chain	Res	Type
3	s1	80	SER
3	s1	98	THR
3	s1	110	LEU
3	s1	131	ASP
3	s1	159	SER
3	s1	169	SER
3	s1	194	ASN
4	s2	38	VAL
4	s2	51	THR
4	s2	97	ARG
4	s2	107	SER
4	s2	116	LYS
4	s2	156	THR
4	s2	208	GLU
4	s2	238	SER
5	s3	41	VAL
5	s3	45	LYS
5	s3	55	THR
5	s3	110	LEU
5	s3	139	SER
5	s3	142	LEU
5	s3	186	VAL
6	s4	24	SER
6	s4	30	ARG
6	s4	32	SER
6	s4	46	VAL
6	s4	62	LYS
6	s4	95	THR
6	s4	97	GLU
6	s4	106	LYS
6	s4	181	VAL
6	s4	184	THR
6	s4	206	ASP
6	s4	213	SER
6	s4	220	THR
6	s4	225	VAL
6	s4	238	LEU
7	s5	21	THR
7	s5	68	ILE
7	s5	146	THR
7	s5	207	THR
7	s5	223	SER

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Mol	Chain	Res	Type
8	s6	18	ILE
8	s6	78	THR
8	s6	83	CYS
8	s6	125	THR
8	s6	129	VAL
8	s6	166	GLU
8	s6	171	LYS
8	s6	199	GLN
8	s6	201	GLN
8	s6	216	LEU
9	s7	10	SER
9	s7	11	GLN
9	s7	31	SER
9	s7	35	LYS
9	s7	51	VAL
9	s7	66	SER
9	s7	84	LYS
9	s7	106	SER
9	s7	124	LYS
9	s7	168	SER
10	s8	66	SER
10	s8	121	LEU
10	s8	123	LYS
10	s8	137	LYS
10	s8	151	LYS
10	s8	153	GLU
10	s8	155	SER
10	s8	161	SER
10	s8	193	LEU
11	s9	24	LEU
11	s9	52	ILE
11	s9	66	ASP
11	s9	82	ARG
11	s9	111	THR
11	s9	118	LEU
11	s9	121	SER
11	s9	126	ARG
11	s9	138	LYS
11	s9	145	SER
11	s9	148	VAL
11	s9	152	SER
12	c0	11	ILE

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Mol	Chain	Res	Type
12	c0	25	LYS
12	c0	27	PHE
12	c0	40	LEU
13	c1	4	GLU
13	c1	19	ILE
13	c1	21	ASN
13	c1	116	ARG
14	c3	3	ARG
14	c3	12	SER
14	c3	14	SER
14	c3	19	SER
14	c3	97	SER
15	c4	22	SER
15	c4	34	SER
15	c4	58	TYR
15	c4	77	THR
15	c4	110	LEU
15	c4	124	ASP
16	c5	21	ASP
16	c5	29	SER
16	c5	34	VAL
16	c5	47	ARG
16	c5	58	LYS
16	c5	70	ASN
16	c5	78	THR
16	c5	86	VAL
16	c5	96	ILE
16	c5	121	ILE
16	c5	128	HIS
17	c6	19	VAL
17	c6	47	LYS
17	c6	93	HIS
17	c6	113	ASP
18	c7	44	LYS
18	c7	113	LEU
19	c8	15	LEU
19	c8	62	THR
19	c8	96	LYS
19	c8	107	SER
19	c8	143	ARG
20	c9	41	SER
20	c9	48	GLN

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Mol	Chain	Res	Type
20	c9	113	ILE
20	c9	117	SER
21	d0	34	LEU
21	d0	39	SER
21	d0	50	LEU
21	d0	92	ASP
21	d0	101	LYS
21	d0	102	ARG
21	d0	117	VAL
22	d1	2	GLU
22	d1	12	TYR
22	d1	69	LEU
22	d1	82	VAL
24	d3	90	ASP
24	d3	99	ASN
24	d3	107	PHE
24	d3	126	LYS
24	d3	138	GLU
25	d4	39	GLU
25	d4	62	THR
25	d4	78	SER
25	d4	104	SER
25	d4	112	LYS
25	d4	128	LYS
72	d5	57	TYR
72	d5	60	VAL
72	d5	63	SER
72	d5	77	ARG
72	d5	93	SER
72	d5	105	THR
73	d6	23	CYS
73	d6	51	ARG
73	d6	54	SER
73	d6	62	TYR
74	d7	11	THR
74	d7	22	LYS
74	d7	24	LEU
74	d7	41	LEU
74	d7	56	CYS
75	d8	12	VAL
75	d8	26	THR
75	d8	33	LEU

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Mol	Chain	Res	Type
75	d8	43	ASN
75	d8	54	LEU
75	d8	56	LEU
75	d8	58	GLU
75	d8	60	GLU
75	d8	66	LEU
76	d9	13	ARG
76	d9	23	VAL
76	d9	26	SER
77	e0	37	ARG
77	e0	47	VAL
77	e0	48	THR
77	e0	49	LEU
78	e1	114	VAL
78	e1	143	LYS
78	e1	147	VAL

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (272) such sidechains are listed below:

Mol	Chain	Res	Type
2	B	32	HIS
2	B	46	HIS
2	B	49	ASN
2	B	140	ASN
3	C	124	ASN
3	C	149	GLN
3	C	177	GLN
3	C	183	GLN
4	D	94	GLN
4	D	209	ASN
5	E	159	HIS
6	F	36	HIS
6	F	67	GLN
6	F	224	ASN
7	G	44	ASN
7	G	116	HIS
7	G	158	GLN
8	H	80	ASN
9	I	42	GLN
9	I	108	GLN
9	I	170	GLN
10	J	116	HIS

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Mol	Chain	Res	Type
10	J	138	ASN
11	K	112	GLN
11	K	123	HIS
11	K	131	GLN
11	K	139	GLN
12	L	47	GLN
13	M	37	ASN
13	M	81	HIS
13	M	127	GLN
14	O	78	ASN
14	O	105	ASN
16	Q	103	ASN
18	S	42	GLN
18	S	48	ASN
18	S	104	ASN
19	T	19	ASN
19	T	89	GLN
19	T	104	ASN
20	U	101	ASN
20	U	129	GLN
21	V	105	GLN
22	W	29	HIS
22	W	35	ASN
22	W	74	GLN
23	X	12	ASN
23	X	44	HIS
23	X	64	GLN
23	X	113	HIS
24	Y	79	ASN
25	Z	29	HIS
25	Z	107	GLN
26	AA	78	ASN
28	AB	40	HIS
28	AB	120	ASN
26	DB	78	ASN
26	DB	122	HIS
26	DB	128	GLN
29	AC	19	ASN
28	DC	120	ASN
31	CD	8	GLN
31	CD	24	GLN
31	CD	86	GLN

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Mol	Chain	Res	Type
31	CD	217	GLN
29	DD	48	HIS
32	AE	87	ASN
33	CE	121	ASN
33	CE	224	HIS
31	j	86	GLN
31	j	132	ASN
31	j	139	HIS
31	j	211	HIS
33	k	319	ASN
38	l	5	GLN
38	l	114	ASN
38	l	296	GLN
38	l	307	GLN
38	l	311	HIS
39	m	32	GLN
39	m	90	HIS
39	m	244	HIS
41	o	186	HIS
41	o	200	ASN
41	o	225	GLN
42	p	38	GLN
42	p	61	GLN
42	p	192	GLN
42	p	221	ASN
43	q	8	GLN
43	q	51	GLN
43	q	96	HIS
43	q	157	ASN
43	q	169	ASN
44	r	59	GLN
44	r	162	GLN
45	s	20	ASN
45	s	68	HIS
46	t	12	ASN
46	t	129	ASN
47	u	119	GLN
48	v	15	GLN
49	w	31	GLN
50	x	45	GLN
50	x	55	GLN
52	z	3	ASN

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Mol	Chain	Res	Type
52	z	7	GLN
53	0	8	GLN
53	0	65	ASN
53	0	108	GLN
53	0	142	GLN
54	2	16	GLN
54	2	90	ASN
55	5	52	ASN
58	8	111	ASN
60	AH	34	HIS
60	AH	108	GLN
61	AI	61	GLN
61	AI	108	GLN
61	AI	113	GLN
63	AK	69	HIS
63	AK	79	GLN
64	AL	28	ASN
65	AM	4	GLN
65	AM	19	GLN
65	AM	32	ASN
66	AN	90	ASN
68	AP	3	ASN
68	AP	27	GLN
69	AQ	33	GLN
70	i	71	ASN
70	i	94	HIS
38	CF	45	ASN
38	CF	48	GLN
38	CF	87	GLN
38	CF	322	GLN
40	CH	57	HIS
41	CI	159	GLN
42	CJ	28	HIS
42	CJ	138	HIS
42	CJ	145	ASN
42	CJ	191	ASN
43	CK	51	GLN
43	CK	58	HIS
43	CK	64	HIS
43	CK	100	ASN
43	CK	116	ASN
43	CK	162	GLN

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Mol	Chain	Res	Type
44	CL	123	HIS
45	CM	95	ASN
45	CM	101	ASN
45	CM	150	ASN
45	CM	165	GLN
47	CO	56	GLN
47	CO	105	GLN
47	CO	126	GLN
48	CP	11	GLN
48	CP	32	GLN
48	CP	86	ASN
48	CP	117	ASN
48	CP	194	GLN
49	CQ	26	GLN
49	CQ	182	ASN
50	CR	45	GLN
50	CR	54	HIS
50	CR	120	ASN
50	CR	125	GLN
50	CR	137	ASN
51	CS	45	ASN
51	CS	136	ASN
52	CT	36	ASN
53	CU	8	GLN
53	CU	62	ASN
53	CU	88	HIS
53	CU	138	GLN
54	CV	16	GLN
54	CV	134	GLN
56	CX	33	ASN
56	CX	132	ASN
58	CZ	111	ASN
32	DF	21	HIS
59	DH	87	ASN
59	DH	106	ASN
60	DI	34	HIS
60	DI	52	GLN
60	DI	98	GLN
61	DJ	20	GLN
61	DJ	59	ASN
61	DJ	104	GLN
62	DK	63	ASN

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Mol	Chain	Res	Type
62	DK	92	ASN
63	DL	28	HIS
63	DL	57	HIS
65	DN	32	ASN
68	DQ	20	HIS
68	DQ	22	GLN
68	DQ	38	GLN
68	DQ	59	HIS
71	p0	39	HIS
71	p0	83	ASN
71	p0	195	GLN
70	sM	29	ASN
70	sM	57	ASN
70	sM	70	ASN
74	c	49	HIS
74	c	51	GLN
75	d	43	ASN
75	d	51	ASN
76	e	5	ASN
76	e	53	ASN
79	h	69	GLN
79	h	153	GLN
79	h	182	ASN
79	h	196	ASN
79	h	200	ASN
79	h	299	GLN
79	Rb	64	HIS
79	Rb	159	ASN
79	Rb	182	ASN
79	Rb	224	ASN
79	Rb	237	GLN
2	s0	23	HIS
3	s1	95	ASN
3	s1	146	GLN
3	s1	149	GLN
3	s1	232	HIS
4	s2	189	GLN
4	s2	209	ASN
5	s3	101	GLN
5	s3	111	ASN
6	s4	17	HIS
6	s4	57	ASN

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Mol	Chain	Res	Type
6	s4	258	GLN
7	s5	66	GLN
7	s5	72	HIS
7	s5	103	ASN
7	s5	128	ASN
7	s5	169	ASN
8	s6	190	GLN
9	s7	74	GLN
10	s8	20	GLN
10	s8	35	ASN
11	s9	74	ASN
11	s9	124	HIS
12	c0	9	ASN
12	c0	28	ASN
13	c1	8	GLN
13	c1	92	HIS
13	c1	106	ASN
14	c3	21	ASN
14	c3	49	GLN
14	c3	62	GLN
16	c5	128	HIS
18	c7	104	ASN
19	c8	74	GLN
20	c9	43	ASN
20	c9	70	GLN
20	c9	129	GLN
22	d1	81	ASN
23	d2	12	ASN
23	d2	70	ASN
23	d2	92	ASN
25	d4	31	ASN
25	d4	34	ASN
25	d4	113	ASN
72	d5	44	GLN
73	d6	43	ASN
75	d8	51	ASN
76	d9	37	ASN
77	e0	17	GLN
77	e0	57	ASN
78	e1	135	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	1730/1800 (96%)	436 (25%)	44 (2%)
1	sR	1780/1800 (98%)	431 (24%)	0
35	1	3128/3396 (92%)	570 (18%)	44 (1%)
35	AR	3143/3396 (92%)	573 (18%)	48 (1%)
36	3	120/121 (99%)	15 (12%)	1 (0%)
36	AS	120/121 (99%)	18 (15%)	2 (1%)
37	4	157/158 (99%)	33 (21%)	2 (1%)
37	AT	157/158 (99%)	29 (18%)	1 (0%)
All	All	10335/10950 (94%)	2105 (20%)	142 (1%)

All (2105) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	2	A
1	A	4	C
1	A	8	U
1	A	17	C
1	A	25	C
1	A	26	A
1	A	27	U
1	A	34	G
1	A	39	A
1	A	42	G
1	A	45	U
1	A	47	A
1	A	57	G
1	A	60	U
1	A	67	A
1	A	68	A
1	A	69	G
1	A	72	A
1	A	73	U
1	A	74	U
1	A	77	U
1	A	81	G
1	A	95	G
1	A	104	A
1	A	114	C
1	A	115	G
1	A	140	A
1	A	141	U
1	A	144	U
1	A	145	A

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Mol	Chain	Res	Type
1	A	146	U
1	A	153	G
1	A	158	U
1	A	159	U
1	A	169	A
1	A	178	U
1	A	179	A
1	A	186	C
1	A	188	A
1	A	190	C
1	A	191	C
1	A	192	U
1	A	193	U
1	A	195	G
1	A	197	A
1	A	200	A
1	A	215	A
1	A	217	A
1	A	219	A
1	A	226	A
1	A	227	U
1	A	229	U
1	A	233	C
1	A	235	G
1	A	236	A
1	A	238	U
1	A	239	C
1	A	240	U
1	A	241	U
1	A	242	U
1	A	246	G
1	A	250	C
1	A	260	U
1	A	261	U
1	A	265	A
1	A	271	A
1	A	272	U
1	A	274	G
1	A	275	C
1	A	276	C
1	A	277	U
1	A	278	U

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Mol	Chain	Res	Type
1	A	279	G
1	A	284	G
1	A	288	A
1	A	292	U
1	A	299	A
1	A	302	U
1	A	314	C
1	A	316	A
1	A	319	U
1	A	320	U
1	A	321	C
1	A	322	G
1	A	333	A
1	A	337	G
1	A	338	C
1	A	352	A
1	A	359	A
1	A	360	A
1	A	361	C
1	A	378	A
1	A	380	U
1	A	390	G
1	A	397	A
1	A	400	A
1	A	401	A
1	A	402	C
1	A	404	G
1	A	418	G
1	A	419	G
1	A	424	C
1	A	425	A
1	A	426	G
1	A	428	A
1	A	434	G
1	A	437	A
1	A	439	U
1	A	444	C
1	A	461	G
1	A	468	A
1	A	470	A
1	A	475	A
1	A	477	A

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Mol	Chain	Res	Type
1	A	480	G
1	A	484	C
1	A	485	A
1	A	488	G
1	A	498	G
1	A	499	U
1	A	500	C
1	A	502	U
1	A	503	G
1	A	504	U
1	A	505	A
1	A	506	A
1	A	507	U
1	A	509	G
1	A	510	G
1	A	511	A
1	A	513	U
1	A	515	A
1	A	516	G
1	A	527	A
1	A	532	U
1	A	536	C
1	A	538	A
1	A	539	G
1	A	540	G
1	A	541	A
1	A	542	A
1	A	543	C
1	A	544	A
1	A	548	G
1	A	555	A
1	A	556	A
1	A	557	G
1	A	558	U
1	A	559	C
1	A	565	C
1	A	568	G
1	A	579	A
1	A	580	A
1	A	581	U
1	A	583	C
1	A	594	A

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Mol	Chain	Res	Type
1	A	595	G
1	A	608	U
1	A	611	U
1	A	619	A
1	A	620	A
1	A	622	A
1	A	623	A
1	A	624	G
1	A	639	U
1	A	640	U
1	A	650	U
1	A	654	C
1	A	655	G
1	A	677	G
1	A	678	A
1	A	679	U
1	A	680	U
1	A	682	C
1	A	684	A
1	A	686	C
1	A	694	U
1	A	696	C
1	A	697	C
1	A	700	C
1	A	702	G
1	A	703	G
1	A	704	C
1	A	705	U
1	A	706	A
1	A	707	A
1	A	708	C
1	A	709	C
1	A	710	U
1	A	711	U
1	A	712	G
1	A	714	G
1	A	716	C
1	A	717	C
1	A	718	U
1	A	719	U
1	A	720	G
1	A	721	U

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Mol	Chain	Res	Type
1	A	722	G
1	A	723	G
1	A	725	U
1	A	727	U
1	A	731	C
1	A	732	G
1	A	733	A
1	A	734	A
1	A	735	C
1	A	737	A
1	A	738	G
1	A	742	U
1	A	743	U
1	A	745	U
1	A	754	A
1	A	755	A
1	A	756	A
1	A	765	G
1	A	766	U
1	A	774	A
1	A	775	G
1	A	777	C
1	A	778	G
1	A	779	U
1	A	781	U
1	A	782	U
1	A	783	G
1	A	784	C
1	A	787	G
1	A	789	A
1	A	793	A
1	A	794	U
1	A	795	U
1	A	803	A
1	A	807	A
1	A	812	A
1	A	814	A
1	A	815	G
1	A	816	G
1	A	818	C
1	A	820	U
1	A	821	U

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Mol	Chain	Res	Type
1	A	823	G
1	A	830	U
1	A	831	U
1	A	833	U
1	A	834	G
1	A	841	U
1	A	846	G
1	A	856	A
1	A	863	A
1	A	864	U
1	A	876	G
1	A	886	U
1	A	892	A
1	A	898	A
1	A	899	G
1	A	912	U
1	A	913	G
1	A	914	G
1	A	915	A
1	A	916	U
1	A	931	C
1	A	933	A
1	A	934	C
1	A	935	U
1	A	942	G
1	A	951	A
1	A	960	U
1	A	966	A
1	A	989	U
1	A	992	A
1	A	993	A
1	A	997	G
1	A	1002	G
1	A	1003	A
1	A	1004	U
1	A	1005	A
1	A	1026	A
1	A	1028	C
1	A	1039	A
1	A	1040	G
1	A	1049	U
1	A	1052	U

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Mol	Chain	Res	Type
1	A	1053	G
1	A	1058	U
1	A	1060	U
1	A	1072	C
1	A	1074	G
1	A	1082	C
1	A	1086	A
1	A	1091	A
1	A	1092	A
1	A	1093	A
1	A	1096	C
1	A	1097	U
1	A	1098	U
1	A	1100	G
1	A	1109	G
1	A	1138	A
1	A	1140	G
1	A	1146	G
1	A	1150	G
1	A	1151	A
1	A	1157	A
1	A	1158	C
1	A	1160	A
1	A	1163	A
1	A	1167	G
1	A	1168	U
1	A	1185	U
1	A	1191	U
1	A	1194	A
1	A	1196	A
1	A	1199	G
1	A	1200	G
1	A	1202	A
1	A	1203	A
1	A	1207	C
1	A	1217	A
1	A	1218	G
1	A	1227	A
1	A	1229	G
1	A	1241	G
1	A	1244	A
1	A	1245	G

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Mol	Chain	Res	Type
1	A	1246	C
1	A	1251	U
1	A	1257	U
1	A	1258	U
1	A	1260	U
1	A	1284	C
1	A	1285	U
1	A	1286	U
1	A	1314	U
1	A	1315	U
1	A	1321	A
1	A	1324	G
1	A	1329	A
1	A	1339	C
1	A	1340	U
1	A	1341	A
1	A	1344	A
1	A	1345	A
1	A	1346	A
1	A	1354	G
1	A	1358	G
1	A	1361	U
1	A	1362	U
1	A	1363	U
1	A	1364	G
1	A	1370	U
1	A	1371	A
1	A	1372	U
1	A	1378	U
1	A	1388	A
1	A	1390	U
1	A	1394	G
1	A	1398	U
1	A	1399	C
1	A	1413	U
1	A	1414	U
1	A	1415	U
1	A	1424	A
1	A	1427	A
1	A	1428	G
1	A	1446	A
1	A	1459	C

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Mol	Chain	Res	Type
1	A	1460	A
1	A	1461	C
1	A	1471	A
1	A	1473	U
1	A	1474	G
1	A	1475	A
1	A	1481	C
1	A	1482	C
1	A	1485	C
1	A	1486	G
1	A	1487	A
1	A	1489	U
1	A	1490	C
1	A	1491	U
1	A	1492	A
1	A	1499	G
1	A	1506	G
1	A	1515	A
1	A	1516	A
1	A	1517	U
1	A	1521	G
1	A	1523	G
1	A	1524	A
1	A	1526	A
1	A	1533	C
1	A	1535	U
1	A	1536	G
1	A	1537	C
1	A	1538	U
1	A	1542	G
1	A	1557	U
1	A	1559	A
1	A	1569	A
1	A	1572	G
1	A	1573	A
1	A	1574	G
1	A	1584	G
1	A	1600	A
1	A	1601	G
1	A	1614	A
1	A	1615	C
1	A	1616	G

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Mol	Chain	Res	Type
1	A	1619	C
1	A	1631	A
1	A	1634	C
1	A	1657	U
1	A	1658	G
1	A	1662	G
1	A	1663	G
1	A	1664	C
1	A	1680	G
1	A	1682	U
1	A	1683	C
1	A	1684	U
1	A	1716	C
1	A	1717	G
1	A	1720	G
1	A	1731	A
1	A	1760	G
1	A	1762	A
1	A	1766	A
1	A	1769	U
1	A	1780	G
1	A	1782	A
1	A	1783	C
1	A	1792	G
1	A	1793	G
1	A	1794	A
1	A	1795	U
1	A	1796	C
35	1	14	U
35	1	15	C
35	1	16	A
35	1	26	A
35	1	40	A
35	1	49	A
35	1	59	G
35	1	60	A
35	1	65	A
35	1	66	A
35	1	67	A
35	1	73	C
35	1	76	G
35	1	92	G

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Mol	Chain	Res	Type
35	1	99	A
35	1	109	A
35	1	110	G
35	1	111	C
35	1	116	A
35	1	117	U
35	1	118	U
35	1	121	A
35	1	122	A
35	1	133	U
35	1	135	C
35	1	136	G
35	1	148	G
35	1	156	G
35	1	157	A
35	1	161	G
35	1	166	C
35	1	170	G
35	1	187	A
35	1	190	U
35	1	191	U
35	1	201	A
35	1	210	U
35	1	213	A
35	1	218	G
35	1	219	A
35	1	220	G
35	1	237	G
35	1	240	U
35	1	241	G
35	1	243	G
35	1	246	U
35	1	250	U
35	1	251	G
35	1	252	U
35	1	269	G
35	1	283	G
35	1	286	U
35	1	295	A
35	1	298	U
35	1	299	G
35	1	305	U

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Mol	Chain	Res	Type
35	1	323	A
35	1	329	U
35	1	339	C
35	1	344	A
35	1	349	A
35	1	350	C
35	1	351	A
35	1	376	G
35	1	398	A
35	1	399	A
35	1	401	U
35	1	402	A
35	1	403	C
35	1	421	G
35	1	422	A
35	1	438	A
35	1	440	A
35	1	520	U
35	1	521	A
35	1	535	G
35	1	544	C
35	1	545	U
35	1	546	C
35	1	547	G
35	1	548	G
35	1	551	A
35	1	552	G
35	1	553	U
35	1	555	U
35	1	557	A
35	1	558	U
35	1	559	A
35	1	578	A
35	1	579	G
35	1	591	G
35	1	592	A
35	1	600	G
35	1	609	G
35	1	611	A
35	1	620	U
35	1	621	A
35	1	636	C

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Mol	Chain	Res	Type
35	1	637	C
35	1	638	C
35	1	649	A
35	1	660	A
35	1	677	A
35	1	681	U
35	1	682	U
35	1	684	G
35	1	692	A
35	1	705	A
35	1	712	G
35	1	715	A
35	1	716	A
35	1	719	U
35	1	763	G
35	1	764	U
35	1	766	U
35	1	767	U
35	1	776	U
35	1	777	U
35	1	780	A
35	1	781	G
35	1	785	G
35	1	806	A
35	1	817	A
35	1	830	A
35	1	837	A
35	1	861	C
35	1	874	U
35	1	879	U
35	1	890	C
35	1	896	A
35	1	907	G
35	1	908	G
35	1	914	A
35	1	916	G
35	1	917	A
35	1	921	A
35	1	923	C
35	1	924	G
35	1	937	G
35	1	943	U

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Mol	Chain	Res	Type
35	1	944	C
35	1	953	G
35	1	959	C
35	1	960	U
35	1	974	G
35	1	979	U
35	1	980	A
35	1	981	U
35	1	982	C
35	1	991	G
35	1	994	G
35	1	1000	C
35	1	1001	G
35	1	1002	A
35	1	1006	A
35	1	1010	G
35	1	1015	U
35	1	1017	C
35	1	1018	G
35	1	1020	G
35	1	1021	G
35	1	1024	G
35	1	1025	A
35	1	1029	G
35	1	1032	C
35	1	1036	A
35	1	1047	A
35	1	1049	C
35	1	1057	A
35	1	1064	A
35	1	1065	A
35	1	1071	U
35	1	1072	G
35	1	1081	U
35	1	1082	U
35	1	1083	G
35	1	1093	A
35	1	1094	U
35	1	1095	U
35	1	1096	U
35	1	1097	G
35	1	1098	A

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Mol	Chain	Res	Type
35	1	1103	A
35	1	1104	G
35	1	1117	G
35	1	1131	G
35	1	1153	A
35	1	1159	A
35	1	1180	A
35	1	1181	U
35	1	1182	A
35	1	1186	G
35	1	1190	A
35	1	1191	U
35	1	1192	C
35	1	1201	C
35	1	1206	G
35	1	1209	G
35	1	1217	A
35	1	1221	A
35	1	1222	G
35	1	1227	C
35	1	1232	C
35	1	1236	G
35	1	1248	C
35	1	1249	G
35	1	1254	C
35	1	1258	U
35	1	1262	G
35	1	1263	A
35	1	1264	G
35	1	1265	U
35	1	1267	U
35	1	1269	U
35	1	1270	A
35	1	1271	A
35	1	1272	C
35	1	1274	A
35	1	1278	A
35	1	1279	C
35	1	1285	G
35	1	1286	A
35	1	1287	A
35	1	1292	C

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Mol	Chain	Res	Type
35	1	1303	A
35	1	1307	G
35	1	1308	A
35	1	1309	U
35	1	1313	G
35	1	1318	A
35	1	1330	A
35	1	1348	U
35	1	1349	G
35	1	1352	A
35	1	1353	U
35	1	1355	A
35	1	1356	U
35	1	1357	G
35	1	1358	C
35	1	1386	A
35	1	1398	U
35	1	1399	A
35	1	1400	G
35	1	1417	G
35	1	1419	A
35	1	1429	G
35	1	1434	G
35	1	1435	A
35	1	1437	C
35	1	1446	A
35	1	1450	G
35	1	1475	A
35	1	1477	A
35	1	1481	A
35	1	1482	A
35	1	1488	G
35	1	1496	C
35	1	1508	C
35	1	1519	G
35	1	1522	U
35	1	1527	C
35	1	1536	G
35	1	1555	U
35	1	1556	C
35	1	1560	G
35	1	1561	G

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Mol	Chain	Res	Type
35	1	1562	C
35	1	1563	C
35	1	1575	A
35	1	1578	C
35	1	1579	C
35	1	1580	A
35	1	1581	C
35	1	1582	C
35	1	1583	A
35	1	1589	A
35	1	1620	U
35	1	1629	U
35	1	1630	U
35	1	1633	C
35	1	1639	C
35	1	1642	A
35	1	1643	A
35	1	1657	C
35	1	1683	A
35	1	1715	A
35	1	1716	U
35	1	1717	U
35	1	1724	U
35	1	1725	C
35	1	1729	A
35	1	1736	G
35	1	1741	A
35	1	1742	U
35	1	1745	C
35	1	1750	A
35	1	1751	G
35	1	1760	A
35	1	1761	C
35	1	1762	C
35	1	1763	U
35	1	1764	U
35	1	1765	U
35	1	1766	G
35	1	1767	C
35	1	1769	G
35	1	1770	G
35	1	1775	G

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Mol	Chain	Res	Type
35	1	1779	C
35	1	1780	G
35	1	1797	A
35	1	1809	A
35	1	1810	A
35	1	1814	A
35	1	1815	U
35	1	1816	A
35	1	1819	U
35	1	1820	U
35	1	1821	U
35	1	1839	A
35	1	1842	A
35	1	1846	C
35	1	1847	A
35	1	1878	G
35	1	1879	A
35	1	1880	U
35	1	1883	A
35	1	1906	G
35	1	1926	C
35	1	1935	G
35	1	1948	G
35	1	1951	C
35	1	1952	G
35	1	1953	G
35	1	1954	G
35	1	2097	U
35	1	2101	C
35	1	2102	U
35	1	2111	G
35	1	2113	A
35	1	2120	A
35	1	2121	G
35	1	2122	G
35	1	2131	A
35	1	2140	U
35	1	2158	A
35	1	2169	G
35	1	2170	U
35	1	2188	A
35	1	2205	U

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Mol	Chain	Res	Type
35	1	2208	A
35	1	2210	G
35	1	2223	A
35	1	2228	A
35	1	2249	G
35	1	2250	G
35	1	2255	A
35	1	2256	A
35	1	2272	G
35	1	2273	G
35	1	2281	A
35	1	2282	U
35	1	2301	U
35	1	2303	A
35	1	2307	G
35	1	2310	U
35	1	2313	A
35	1	2314	U
35	1	2315	G
35	1	2319	U
35	1	2330	C
35	1	2334	U
35	1	2336	U
35	1	2373	A
35	1	2374	C
35	1	2375	G
35	1	2383	C
35	1	2385	G
35	1	2388	U
35	1	2393	G
35	1	2397	A
35	1	2401	A
35	1	2402	A
35	1	2403	G
35	1	2404	A
35	1	2411	U
35	1	2414	G
35	1	2418	G
35	1	2419	A
35	1	2435	G
35	1	2444	C
35	1	2445	A

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Mol	Chain	Res	Type
35	1	2502	A
35	1	2503	G
35	1	2514	U
35	1	2515	A
35	1	2522	G
35	1	2523	A
35	1	2532	U
35	1	2533	G
35	1	2534	G
35	1	2537	U
35	1	2538	U
35	1	2539	C
35	1	2540	A
35	1	2541	U
35	1	2542	U
35	1	2543	U
35	1	2544	U
35	1	2547	A
35	1	2549	G
35	1	2551	U
35	1	2552	C
35	1	2555	G
35	1	2561	A
35	1	2569	A
35	1	2570	U
35	1	2571	U
35	1	2572	C
35	1	2573	G
35	1	2585	G
35	1	2593	A
35	1	2594	C
35	1	2606	G
35	1	2607	G
35	1	2614	G
35	1	2637	A
35	1	2647	A
35	1	2652	U
35	1	2656	A
35	1	2674	A
35	1	2677	G
35	1	2689	A
35	1	2691	A

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Mol	Chain	Res	Type
35	1	2694	A
35	1	2696	A
35	1	2714	G
35	1	2728	G
35	1	2729	U
35	1	2752	U
35	1	2753	G
35	1	2755	C
35	1	2762	A
35	1	2772	C
35	1	2777	G
35	1	2778	G
35	1	2788	C
35	1	2796	G
35	1	2799	A
35	1	2800	G
35	1	2801	A
35	1	2802	A
35	1	2808	A
35	1	2810	C
35	1	2815	G
35	1	2816	G
35	1	2817	A
35	1	2818	U
35	1	2821	C
35	1	2829	U
35	1	2839	G
35	1	2842	U
35	1	2845	A
35	1	2847	A
35	1	2849	C
35	1	2853	A
35	1	2860	U
35	1	2867	C
35	1	2871	G
35	1	2875	U
35	1	2876	C
35	1	2887	A
35	1	2898	G
35	1	2899	C
35	1	2923	U
35	1	2935	U

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Mol	Chain	Res	Type
35	1	2936	A
35	1	2939	G
35	1	2942	C
35	1	2945	G
35	1	2947	G
35	1	2954	U
35	1	2968	G
35	1	2971	A
35	1	2972	G
35	1	2979	U
35	1	2983	C
35	1	2990	G
35	1	2996	U
35	1	2997	G
35	1	3012	A
35	1	3030	G
35	1	3056	U
35	1	3058	U
35	1	3059	G
35	1	3078	U
35	1	3079	U
35	1	3086	A
35	1	3092	C
35	1	3122	A
35	1	3130	A
35	1	3131	U
35	1	3142	A
35	1	3143	C
35	1	3150	A
35	1	3151	U
35	1	3153	U
35	1	3154	C
35	1	3155	U
35	1	3156	U
35	1	3157	U
35	1	3164	C
35	1	3165	A
35	1	3170	A
35	1	3173	G
35	1	3174	A
35	1	3176	G
35	1	3179	U

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Mol	Chain	Res	Type
35	1	3181	C
35	1	3187	A
35	1	3195	U
35	1	3196	U
35	1	3207	U
35	1	3210	A
35	1	3217	C
35	1	3218	A
35	1	3219	G
35	1	3228	C
35	1	3229	G
35	1	3245	A
35	1	3246	G
35	1	3247	G
35	1	3259	U
35	1	3270	U
35	1	3273	A
35	1	3276	G
35	1	3281	U
35	1	3286	G
35	1	3287	U
35	1	3289	G
35	1	3293	U
35	1	3294	A
35	1	3295	A
35	1	3304	U
35	1	3307	A
35	1	3313	U
35	1	3316	A
35	1	3317	U
35	1	3318	G
35	1	3319	U
35	1	3320	A
35	1	3341	U
35	1	3342	A
35	1	3345	G
35	1	3347	A
35	1	3348	G
35	1	3351	U
35	1	3352	U
35	1	3354	U
35	1	3355	U

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Mol	Chain	Res	Type
35	1	3360	C
35	1	3368	U
35	1	3369	G
35	1	3375	A
35	1	3378	C
35	1	3382	U
35	1	3383	G
35	1	3389	U
35	1	3390	G
35	1	3396	U
36	3	7	G
36	3	11	A
36	3	22	A
36	3	23	A
36	3	52	G
36	3	53	U
36	3	54	U
36	3	55	A
36	3	57	G
36	3	65	G
36	3	74	C
36	3	76	A
36	3	102	A
36	3	112	G
36	3	121	U
37	4	2	A
37	4	23	U
37	4	26	U
37	4	34	U
37	4	35	C
37	4	48	A
37	4	52	A
37	4	59	A
37	4	62	C
37	4	63	G
37	4	75	G
37	4	79	A
37	4	80	A
37	4	81	U
37	4	82	U
37	4	84	C
37	4	85	G

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Mol	Chain	Res	Type
37	4	86	U
37	4	87	G
37	4	90	U
37	4	95	G
37	4	96	A
37	4	104	A
37	4	106	C
37	4	111	A
37	4	113	U
37	4	125	U
37	4	126	A
37	4	128	U
37	4	138	A
37	4	148	G
37	4	152	G
37	4	158	U
35	AR	14	U
35	AR	16	A
35	AR	26	A
35	AR	40	A
35	AR	49	A
35	AR	59	G
35	AR	60	A
35	AR	65	A
35	AR	66	A
35	AR	72	C
35	AR	73	C
35	AR	76	G
35	AR	92	G
35	AR	99	A
35	AR	109	A
35	AR	110	G
35	AR	111	C
35	AR	113	C
35	AR	116	A
35	AR	121	A
35	AR	122	A
35	AR	133	U
35	AR	135	C
35	AR	136	G
35	AR	156	G
35	AR	157	A

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Mol	Chain	Res	Type
35	AR	165	A
35	AR	166	C
35	AR	172	G
35	AR	173	G
35	AR	182	U
35	AR	187	A
35	AR	190	U
35	AR	191	U
35	AR	200	C
35	AR	210	U
35	AR	218	G
35	AR	219	A
35	AR	231	G
35	AR	234	G
35	AR	240	U
35	AR	241	G
35	AR	243	G
35	AR	245	U
35	AR	247	C
35	AR	248	U
35	AR	249	U
35	AR	250	U
35	AR	251	G
35	AR	252	U
35	AR	253	A
35	AR	269	G
35	AR	286	U
35	AR	295	A
35	AR	298	U
35	AR	299	G
35	AR	315	C
35	AR	321	C
35	AR	323	A
35	AR	329	U
35	AR	343	U
35	AR	349	A
35	AR	350	C
35	AR	351	A
35	AR	360	G
35	AR	376	G
35	AR	380	U
35	AR	395	A

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Mol	Chain	Res	Type
35	AR	398	A
35	AR	399	A
35	AR	401	U
35	AR	402	A
35	AR	403	C
35	AR	404	G
35	AR	421	G
35	AR	422	A
35	AR	436	A
35	AR	437	G
35	AR	438	A
35	AR	495	G
35	AR	498	A
35	AR	521	A
35	AR	535	G
35	AR	543	C
35	AR	544	C
35	AR	546	C
35	AR	550	A
35	AR	551	A
35	AR	552	G
35	AR	555	U
35	AR	557	A
35	AR	558	U
35	AR	559	A
35	AR	578	A
35	AR	579	G
35	AR	592	A
35	AR	600	G
35	AR	604	G
35	AR	607	A
35	AR	609	G
35	AR	611	A
35	AR	619	A
35	AR	620	U
35	AR	621	A
35	AR	622	A
35	AR	636	C
35	AR	649	A
35	AR	651	G
35	AR	660	A
35	AR	677	A

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Mol	Chain	Res	Type
35	AR	681	U
35	AR	683	U
35	AR	691	A
35	AR	705	A
35	AR	712	G
35	AR	715	A
35	AR	716	A
35	AR	763	G
35	AR	764	U
35	AR	765	C
35	AR	766	U
35	AR	767	U
35	AR	776	U
35	AR	777	U
35	AR	781	G
35	AR	783	A
35	AR	785	G
35	AR	786	A
35	AR	806	A
35	AR	813	G
35	AR	816	A
35	AR	817	A
35	AR	830	A
35	AR	837	A
35	AR	849	C
35	AR	861	C
35	AR	874	U
35	AR	879	U
35	AR	896	A
35	AR	907	G
35	AR	908	G
35	AR	914	A
35	AR	916	G
35	AR	917	A
35	AR	921	A
35	AR	924	G
35	AR	937	G
35	AR	944	C
35	AR	959	C
35	AR	960	U
35	AR	961	C
35	AR	974	G

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Mol	Chain	Res	Type
35	AR	979	U
35	AR	980	A
35	AR	981	U
35	AR	982	C
35	AR	993	G
35	AR	994	G
35	AR	1001	G
35	AR	1002	A
35	AR	1006	A
35	AR	1010	G
35	AR	1012	G
35	AR	1015	U
35	AR	1016	C
35	AR	1017	C
35	AR	1018	G
35	AR	1019	G
35	AR	1020	G
35	AR	1021	G
35	AR	1024	G
35	AR	1025	A
35	AR	1026	A
35	AR	1032	C
35	AR	1037	C
35	AR	1047	A
35	AR	1049	C
35	AR	1056	U
35	AR	1064	A
35	AR	1065	A
35	AR	1072	G
35	AR	1081	U
35	AR	1082	U
35	AR	1083	G
35	AR	1093	A
35	AR	1094	U
35	AR	1095	U
35	AR	1096	U
35	AR	1097	G
35	AR	1098	A
35	AR	1103	A
35	AR	1104	G
35	AR	1117	G
35	AR	1131	G

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Mol	Chain	Res	Type
35	AR	1153	A
35	AR	1159	A
35	AR	1160	C
35	AR	1180	A
35	AR	1181	U
35	AR	1182	A
35	AR	1191	U
35	AR	1192	C
35	AR	1201	C
35	AR	1202	A
35	AR	1209	G
35	AR	1222	G
35	AR	1235	U
35	AR	1236	G
35	AR	1237	G
35	AR	1239	C
35	AR	1241	U
35	AR	1242	G
35	AR	1245	A
35	AR	1246	G
35	AR	1248	C
35	AR	1252	A
35	AR	1254	C
35	AR	1259	A
35	AR	1262	G
35	AR	1263	A
35	AR	1265	U
35	AR	1266	G
35	AR	1285	G
35	AR	1292	C
35	AR	1307	G
35	AR	1309	U
35	AR	1330	A
35	AR	1345	G
35	AR	1348	U
35	AR	1349	G
35	AR	1350	A
35	AR	1351	U
35	AR	1352	A
35	AR	1353	U
35	AR	1355	A
35	AR	1356	U

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Mol	Chain	Res	Type
35	AR	1357	G
35	AR	1386	A
35	AR	1387	G
35	AR	1392	G
35	AR	1399	A
35	AR	1400	G
35	AR	1419	A
35	AR	1431	G
35	AR	1434	G
35	AR	1437	C
35	AR	1446	A
35	AR	1450	G
35	AR	1481	A
35	AR	1482	A
35	AR	1490	A
35	AR	1496	C
35	AR	1508	C
35	AR	1536	G
35	AR	1555	U
35	AR	1556	C
35	AR	1560	G
35	AR	1562	C
35	AR	1563	C
35	AR	1565	G
35	AR	1567	U
35	AR	1568	U
35	AR	1569	U
35	AR	1570	U
35	AR	1572	U
35	AR	1575	A
35	AR	1576	G
35	AR	1580	A
35	AR	1581	C
35	AR	1582	C
35	AR	1583	A
35	AR	1587	A
35	AR	1589	A
35	AR	1605	A
35	AR	1620	U
35	AR	1629	U
35	AR	1632	A
35	AR	1639	C

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Mol	Chain	Res	Type
35	AR	1641	U
35	AR	1642	A
35	AR	1643	A
35	AR	1657	C
35	AR	1683	A
35	AR	1716	U
35	AR	1717	U
35	AR	1724	U
35	AR	1725	C
35	AR	1741	A
35	AR	1742	U
35	AR	1750	A
35	AR	1751	G
35	AR	1760	A
35	AR	1761	C
35	AR	1762	C
35	AR	1765	U
35	AR	1766	G
35	AR	1767	C
35	AR	1769	G
35	AR	1770	G
35	AR	1775	G
35	AR	1780	G
35	AR	1793	C
35	AR	1797	A
35	AR	1810	A
35	AR	1814	A
35	AR	1815	U
35	AR	1816	A
35	AR	1820	U
35	AR	1821	U
35	AR	1839	A
35	AR	1842	A
35	AR	1849	C
35	AR	1878	G
35	AR	1906	G
35	AR	1948	G
35	AR	1953	G
35	AR	1954	G
35	AR	2094	C
35	AR	2095	G
35	AR	2101	C

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Mol	Chain	Res	Type
35	AR	2102	U
35	AR	2112	U
35	AR	2113	A
35	AR	2114	C
35	AR	2121	G
35	AR	2122	G
35	AR	2131	A
35	AR	2158	A
35	AR	2169	G
35	AR	2184	U
35	AR	2187	G
35	AR	2188	A
35	AR	2192	C
35	AR	2198	A
35	AR	2205	U
35	AR	2209	U
35	AR	2210	G
35	AR	2223	A
35	AR	2225	U
35	AR	2244	A
35	AR	2252	A
35	AR	2253	G
35	AR	2254	U
35	AR	2255	A
35	AR	2256	A
35	AR	2263	C
35	AR	2264	U
35	AR	2265	C
35	AR	2269	U
35	AR	2270	A
35	AR	2273	G
35	AR	2276	G
35	AR	2279	A
35	AR	2280	A
35	AR	2281	A
35	AR	2282	U
35	AR	2283	G
35	AR	2288	G
35	AR	2298	U
35	AR	2307	G
35	AR	2309	A
35	AR	2310	U

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Mol	Chain	Res	Type
35	AR	2313	A
35	AR	2314	U
35	AR	2315	G
35	AR	2334	U
35	AR	2335	G
35	AR	2336	U
35	AR	2372	A
35	AR	2373	A
35	AR	2374	C
35	AR	2375	G
35	AR	2385	G
35	AR	2393	G
35	AR	2397	A
35	AR	2401	A
35	AR	2402	A
35	AR	2403	G
35	AR	2404	A
35	AR	2411	U
35	AR	2418	G
35	AR	2438	A
35	AR	2443	A
35	AR	2444	C
35	AR	2445	A
35	AR	2502	A
35	AR	2503	G
35	AR	2504	U
35	AR	2505	U
35	AR	2507	C
35	AR	2508	U
35	AR	2514	U
35	AR	2515	A
35	AR	2519	A
35	AR	2522	G
35	AR	2523	A
35	AR	2530	G
35	AR	2533	G
35	AR	2534	G
35	AR	2536	A
35	AR	2538	U
35	AR	2539	C
35	AR	2540	A
35	AR	2541	U

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Mol	Chain	Res	Type
35	AR	2542	U
35	AR	2543	U
35	AR	2549	G
35	AR	2551	U
35	AR	2552	C
35	AR	2555	G
35	AR	2561	A
35	AR	2565	U
35	AR	2569	A
35	AR	2570	U
35	AR	2571	U
35	AR	2572	C
35	AR	2573	G
35	AR	2580	A
35	AR	2585	G
35	AR	2587	U
35	AR	2593	A
35	AR	2595	A
35	AR	2606	G
35	AR	2607	G
35	AR	2614	G
35	AR	2638	C
35	AR	2639	G
35	AR	2652	U
35	AR	2656	A
35	AR	2674	A
35	AR	2677	G
35	AR	2681	U
35	AR	2689	A
35	AR	2690	G
35	AR	2691	A
35	AR	2694	A
35	AR	2696	A
35	AR	2714	G
35	AR	2728	G
35	AR	2729	U
35	AR	2752	U
35	AR	2753	G
35	AR	2762	A
35	AR	2772	C
35	AR	2773	C
35	AR	2777	G

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Mol	Chain	Res	Type
35	AR	2778	G
35	AR	2781	U
35	AR	2796	G
35	AR	2799	A
35	AR	2800	G
35	AR	2801	A
35	AR	2802	A
35	AR	2810	C
35	AR	2816	G
35	AR	2817	A
35	AR	2818	U
35	AR	2819	A
35	AR	2842	U
35	AR	2843	U
35	AR	2845	A
35	AR	2846	U
35	AR	2847	A
35	AR	2860	U
35	AR	2867	C
35	AR	2871	G
35	AR	2872	A
35	AR	2873	U
35	AR	2875	U
35	AR	2887	A
35	AR	2896	A
35	AR	2899	C
35	AR	2910	A
35	AR	2923	U
35	AR	2935	U
35	AR	2936	A
35	AR	2942	C
35	AR	2943	G
35	AR	2947	G
35	AR	2954	U
35	AR	2968	G
35	AR	2971	A
35	AR	2973	G
35	AR	2983	C
35	AR	2990	G
35	AR	2993	G
35	AR	2997	G
35	AR	3012	A

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Mol	Chain	Res	Type
35	AR	3049	A
35	AR	3056	U
35	AR	3057	U
35	AR	3059	G
35	AR	3078	U
35	AR	3079	U
35	AR	3086	A
35	AR	3087	A
35	AR	3092	C
35	AR	3122	A
35	AR	3130	A
35	AR	3131	U
35	AR	3142	A
35	AR	3143	C
35	AR	3151	U
35	AR	3153	U
35	AR	3155	U
35	AR	3156	U
35	AR	3157	U
35	AR	3158	G
35	AR	3164	C
35	AR	3165	A
35	AR	3167	A
35	AR	3168	A
35	AR	3172	A
35	AR	3173	G
35	AR	3174	A
35	AR	3176	G
35	AR	3179	U
35	AR	3181	C
35	AR	3187	A
35	AR	3195	U
35	AR	3198	U
35	AR	3206	C
35	AR	3207	U
35	AR	3209	A
35	AR	3217	C
35	AR	3218	A
35	AR	3219	G
35	AR	3228	C
35	AR	3229	G
35	AR	3244	A

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Mol	Chain	Res	Type
35	AR	3245	A
35	AR	3246	G
35	AR	3247	G
35	AR	3253	G
35	AR	3259	U
35	AR	3265	C
35	AR	3266	G
35	AR	3270	U
35	AR	3275	U
35	AR	3276	G
35	AR	3277	U
35	AR	3278	C
35	AR	3281	U
35	AR	3286	G
35	AR	3287	U
35	AR	3288	G
35	AR	3289	G
35	AR	3295	A
35	AR	3304	U
35	AR	3313	U
35	AR	3316	A
35	AR	3317	U
35	AR	3318	G
35	AR	3319	U
35	AR	3320	A
35	AR	3341	U
35	AR	3342	A
35	AR	3345	G
35	AR	3347	A
35	AR	3351	U
35	AR	3352	U
35	AR	3353	G
35	AR	3354	U
35	AR	3355	U
35	AR	3356	G
35	AR	3358	U
35	AR	3359	A
35	AR	3369	G
35	AR	3375	A
35	AR	3378	C
35	AR	3383	G
35	AR	3389	U

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Mol	Chain	Res	Type
35	AR	3390	G
36	AS	7	G
36	AS	17	A
36	AS	22	A
36	AS	33	U
36	AS	41	G
36	AS	49	G
36	AS	53	U
36	AS	54	U
36	AS	55	A
36	AS	60	G
36	AS	65	G
36	AS	73	C
36	AS	74	C
36	AS	76	A
36	AS	99	G
36	AS	102	A
36	AS	112	G
36	AS	121	U
37	AT	34	U
37	AT	35	C
37	AT	39	G
37	AT	48	A
37	AT	51	G
37	AT	59	A
37	AT	62	C
37	AT	63	G
37	AT	80	A
37	AT	81	U
37	AT	82	U
37	AT	83	C
37	AT	84	C
37	AT	85	G
37	AT	86	U
37	AT	87	G
37	AT	90	U
37	AT	95	G
37	AT	97	A
37	AT	104	A
37	AT	105	A
37	AT	106	C
37	AT	111	A

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Mol	Chain	Res	Type
37	AT	113	U
37	AT	114	G
37	AT	116	G
37	AT	125	U
37	AT	155	A
37	AT	158	U
1	sR	2	A
1	sR	17	C
1	sR	25	C
1	sR	26	A
1	sR	27	U
1	sR	34	G
1	sR	47	A
1	sR	57	G
1	sR	68	A
1	sR	69	G
1	sR	72	A
1	sR	73	U
1	sR	75	U
1	sR	76	A
1	sR	77	U
1	sR	78	A
1	sR	104	A
1	sR	114	C
1	sR	128	U
1	sR	132	U
1	sR	137	U
1	sR	138	A
1	sR	140	A
1	sR	141	U
1	sR	144	U
1	sR	145	A
1	sR	146	U
1	sR	153	G
1	sR	159	U
1	sR	166	C
1	sR	177	U
1	sR	178	U
1	sR	185	U
1	sR	188	A
1	sR	191	C
1	sR	192	U

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Mol	Chain	Res	Type
1	sR	193	U
1	sR	194	U
1	sR	195	G
1	sR	196	G
1	sR	197	A
1	sR	199	G
1	sR	200	A
1	sR	216	U
1	sR	218	A
1	sR	219	A
1	sR	221	A
1	sR	224	C
1	sR	227	U
1	sR	228	G
1	sR	230	C
1	sR	232	U
1	sR	233	C
1	sR	235	G
1	sR	238	U
1	sR	240	U
1	sR	241	U
1	sR	245	U
1	sR	249	U
1	sR	250	C
1	sR	265	A
1	sR	266	A
1	sR	270	C
1	sR	271	A
1	sR	272	U
1	sR	273	G
1	sR	275	C
1	sR	277	U
1	sR	278	U
1	sR	280	U
1	sR	281	G
1	sR	285	G
1	sR	299	A
1	sR	314	C
1	sR	316	A
1	sR	319	U
1	sR	320	U
1	sR	321	C

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Mol	Chain	Res	Type
1	sR	322	G
1	sR	335	U
1	sR	337	G
1	sR	338	C
1	sR	359	A
1	sR	360	A
1	sR	361	C
1	sR	380	U
1	sR	400	A
1	sR	402	C
1	sR	404	G
1	sR	416	A
1	sR	418	G
1	sR	424	C
1	sR	425	A
1	sR	426	G
1	sR	434	G
1	sR	437	A
1	sR	439	U
1	sR	444	C
1	sR	445	A
1	sR	448	C
1	sR	454	U
1	sR	468	A
1	sR	475	A
1	sR	477	A
1	sR	480	G
1	sR	484	C
1	sR	486	G
1	sR	487	G
1	sR	488	G
1	sR	489	C
1	sR	490	C
1	sR	492	A
1	sR	493	U
1	sR	495	C
1	sR	496	G
1	sR	497	G
1	sR	500	C
1	sR	501	U
1	sR	502	U
1	sR	505	A

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Mol	Chain	Res	Type
1	sR	506	A
1	sR	507	U
1	sR	508	U
1	sR	510	G
1	sR	511	A
1	sR	512	A
1	sR	513	U
1	sR	514	G
1	sR	519	C
1	sR	525	A
1	sR	527	A
1	sR	538	A
1	sR	539	G
1	sR	540	G
1	sR	541	A
1	sR	542	A
1	sR	543	C
1	sR	544	A
1	sR	548	G
1	sR	551	G
1	sR	557	G
1	sR	558	U
1	sR	559	C
1	sR	565	C
1	sR	566	C
1	sR	568	G
1	sR	570	A
1	sR	574	G
1	sR	578	U
1	sR	579	A
1	sR	580	A
1	sR	582	U
1	sR	594	A
1	sR	595	G
1	sR	610	G
1	sR	611	U
1	sR	619	A
1	sR	620	A
1	sR	622	A
1	sR	623	A
1	sR	624	G
1	sR	634	G

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Mol	Chain	Res	Type
1	sR	637	C
1	sR	639	U
1	sR	640	U
1	sR	648	G
1	sR	650	U
1	sR	651	G
1	sR	652	G
1	sR	653	C
1	sR	654	C
1	sR	658	C
1	sR	679	U
1	sR	680	U
1	sR	681	U
1	sR	682	C
1	sR	683	C
1	sR	684	A
1	sR	685	A
1	sR	690	G
1	sR	691	C
1	sR	696	C
1	sR	705	U
1	sR	709	C
1	sR	710	U
1	sR	711	U
1	sR	715	U
1	sR	718	U
1	sR	719	U
1	sR	720	G
1	sR	721	U
1	sR	722	G
1	sR	730	G
1	sR	739	G
1	sR	743	U
1	sR	753	A
1	sR	754	A
1	sR	755	A
1	sR	756	A
1	sR	765	G
1	sR	766	U
1	sR	774	A
1	sR	775	G
1	sR	780	A

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Mol	Chain	Res	Type
1	sR	781	U
1	sR	782	U
1	sR	783	G
1	sR	789	A
1	sR	793	A
1	sR	794	U
1	sR	805	U
1	sR	808	U
1	sR	811	A
1	sR	812	A
1	sR	814	A
1	sR	815	G
1	sR	821	U
1	sR	823	G
1	sR	824	G
1	sR	825	U
1	sR	826	U
1	sR	829	A
1	sR	830	U
1	sR	831	U
1	sR	832	U
1	sR	834	G
1	sR	835	U
1	sR	847	A
1	sR	856	A
1	sR	862	A
1	sR	863	A
1	sR	886	U
1	sR	898	A
1	sR	906	A
1	sR	910	C
1	sR	912	U
1	sR	913	G
1	sR	914	G
1	sR	916	U
1	sR	929	A
1	sR	933	A
1	sR	935	U
1	sR	942	G
1	sR	952	A
1	sR	953	G
1	sR	959	U

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Mol	Chain	Res	Type
1	sR	960	U
1	sR	961	U
1	sR	966	A
1	sR	970	A
1	sR	971	A
1	sR	992	A
1	sR	1003	A
1	sR	1004	U
1	sR	1005	A
1	sR	1021	C
1	sR	1026	A
1	sR	1028	C
1	sR	1039	A
1	sR	1040	G
1	sR	1052	U
1	sR	1053	G
1	sR	1057	U
1	sR	1058	U
1	sR	1059	U
1	sR	1060	U
1	sR	1062	A
1	sR	1073	G
1	sR	1075	C
1	sR	1081	A
1	sR	1082	C
1	sR	1086	A
1	sR	1092	A
1	sR	1093	A
1	sR	1096	C
1	sR	1097	U
1	sR	1098	U
1	sR	1100	G
1	sR	1109	G
1	sR	1111	G
1	sR	1138	A
1	sR	1150	G
1	sR	1155	G
1	sR	1158	C
1	sR	1159	C
1	sR	1160	A
1	sR	1161	C
1	sR	1163	A

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Mol	Chain	Res	Type
1	sR	1167	G
1	sR	1185	U
1	sR	1194	A
1	sR	1196	A
1	sR	1199	G
1	sR	1200	G
1	sR	1202	A
1	sR	1208	A
1	sR	1216	C
1	sR	1217	A
1	sR	1218	G
1	sR	1219	A
1	sR	1220	C
1	sR	1225	U
1	sR	1227	A
1	sR	1228	G
1	sR	1229	G
1	sR	1230	A
1	sR	1231	U
1	sR	1241	G
1	sR	1243	G
1	sR	1244	A
1	sR	1245	G
1	sR	1246	C
1	sR	1255	G
1	sR	1256	A
1	sR	1257	U
1	sR	1258	U
1	sR	1272	U
1	sR	1286	U
1	sR	1288	G
1	sR	1291	G
1	sR	1298	U
1	sR	1311	U
1	sR	1314	U
1	sR	1315	U
1	sR	1316	G
1	sR	1321	A
1	sR	1337	A
1	sR	1338	C
1	sR	1341	A
1	sR	1344	A

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Mol	Chain	Res	Type
1	sR	1345	A
1	sR	1346	A
1	sR	1347	U
1	sR	1354	G
1	sR	1361	U
1	sR	1362	U
1	sR	1363	U
1	sR	1364	G
1	sR	1367	G
1	sR	1370	U
1	sR	1371	A
1	sR	1388	A
1	sR	1390	U
1	sR	1396	U
1	sR	1398	U
1	sR	1399	C
1	sR	1400	A
1	sR	1402	G
1	sR	1410	A
1	sR	1413	U
1	sR	1414	U
1	sR	1415	U
1	sR	1417	A
1	sR	1422	A
1	sR	1427	A
1	sR	1428	G
1	sR	1433	G
1	sR	1437	U
1	sR	1445	G
1	sR	1446	A
1	sR	1448	G
1	sR	1459	C
1	sR	1460	A
1	sR	1461	C
1	sR	1469	A
1	sR	1471	A
1	sR	1473	U
1	sR	1482	C
1	sR	1483	A
1	sR	1489	U
1	sR	1490	C
1	sR	1491	U

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Mol	Chain	Res	Type
1	sR	1492	A
1	sR	1506	G
1	sR	1514	U
1	sR	1516	A
1	sR	1517	U
1	sR	1521	G
1	sR	1523	G
1	sR	1524	A
1	sR	1533	C
1	sR	1535	U
1	sR	1536	G
1	sR	1537	C
1	sR	1538	U
1	sR	1540	G
1	sR	1542	G
1	sR	1554	U
1	sR	1557	U
1	sR	1559	A
1	sR	1569	A
1	sR	1573	A
1	sR	1574	G
1	sR	1582	U
1	sR	1584	G
1	sR	1590	G
1	sR	1600	A
1	sR	1601	G
1	sR	1621	U
1	sR	1634	C
1	sR	1657	U
1	sR	1658	G
1	sR	1680	G
1	sR	1682	U
1	sR	1695	G
1	sR	1696	G
1	sR	1697	G
1	sR	1698	G
1	sR	1699	G
1	sR	1700	C
1	sR	1702	A
1	sR	1703	C
1	sR	1712	A
1	sR	1716	C

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Mol	Chain	Res	Type
1	sR	1717	G
1	sR	1731	A
1	sR	1755	A
1	sR	1760	G
1	sR	1766	A
1	sR	1767	G
1	sR	1769	U
1	sR	1780	G
1	sR	1782	A
1	sR	1783	C
1	sR	1792	G
1	sR	1793	G
1	sR	1794	A
1	sR	1795	U
1	sR	1796	C
1	sR	1799	U
1	sR	1800	A

All (142) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A	25	C
1	A	45	U
1	A	73	U
1	A	113	U
1	A	139	C
1	A	158	U
1	A	187	G
1	A	218	A
1	A	232	U
1	A	238	U
1	A	278	U
1	A	417	A
1	A	499	U
1	A	501	U
1	A	503	G
1	A	512	A
1	A	555	A
1	A	580	A
1	A	685	A
1	A	704	C
1	A	708	C

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Mol	Chain	Res	Type
1	A	720	G
1	A	721	U
1	A	755	A
1	A	781	U
1	A	811	A
1	A	1051	G
1	A	1081	A
1	A	1150	G
1	A	1157	A
1	A	1244	A
1	A	1250	U
1	A	1370	U
1	A	1474	G
1	A	1481	C
1	A	1489	U
1	A	1537	C
1	A	1568	C
1	A	1573	A
1	A	1600	A
1	A	1615	C
1	A	1657	U
1	A	1716	C
1	A	1761	U
35	1	65	A
35	1	239	G
35	1	282	G
35	1	588	G
35	1	763	G
35	1	873	C
35	1	916	G
35	1	979	U
35	1	981	U
35	1	993	G
35	1	1064	A
35	1	1094	U
35	1	1097	G
35	1	1103	A
35	1	1273	A
35	1	1329	U
35	1	1355	A
35	1	1562	C
35	1	1716	U

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Mol	Chain	Res	Type
35	1	1724	U
35	1	1820	U
35	1	2101	C
35	1	2112	U
35	1	2209	U
35	1	2227	C
35	1	2249	G
35	1	2418	G
35	1	2537	U
35	1	2539	C
35	1	2541	U
35	1	2568	C
35	1	2593	A
35	1	2801	A
35	1	2818	U
35	1	2874	G
35	1	2875	U
35	1	3078	U
35	1	3121	U
35	1	3218	A
35	1	3228	C
35	1	3269	U
35	1	3350	C
35	1	3351	U
35	1	3353	G
36	3	49	G
37	4	85	G
37	4	125	U
35	AR	65	A
35	AR	239	G
35	AR	588	G
35	AR	715	A
35	AR	873	C
35	AR	916	G
35	AR	979	U
35	AR	981	U
35	AR	993	G
35	AR	1064	A
35	AR	1094	U
35	AR	1097	G
35	AR	1238	C
35	AR	1241	U

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Mol	Chain	Res	Type
35	AR	1284	C
35	AR	1329	U
35	AR	1348	U
35	AR	1352	A
35	AR	1355	A
35	AR	1481	A
35	AR	1562	C
35	AR	1716	U
35	AR	1792	C
35	AR	1815	U
35	AR	1820	U
35	AR	2101	C
35	AR	2112	U
35	AR	2252	A
35	AR	2255	A
35	AR	2269	U
35	AR	2400	G
35	AR	2537	U
35	AR	2541	U
35	AR	2586	G
35	AR	2801	A
35	AR	2818	U
35	AR	2871	G
35	AR	3078	U
35	AR	3121	U
35	AR	3157	U
35	AR	3218	A
35	AR	3228	C
35	AR	3269	U
35	AR	3303	G
35	AR	3319	U
35	AR	3350	C
35	AR	3358	U
35	AR	3375	A
36	AS	49	G
36	AS	52	G
37	AT	85	G

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2541 ligands modelled in this entry, 1523 are monoatomic - leaving 1018 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	$\#\|Z\| > 2$
80	OHX	AR	3434	-	0,6,6	-	-	-		
80	OHX	1	3426	-	0,6,6	-	-	-		
80	OHX	AR	3510	-	0,6,6	-	-	-		
80	OHX	sR	2011	-	0,6,6	-	-	-		
80	OHX	sR	2001	-	0,6,6	-	-	-		
80	OHX	sR	1905	-	0,6,6	-	-	-		
80	OHX	sR	1989	-	0,6,6	-	-	-		
80	OHX	sR	2028	-	0,6,6	-	-	-		
80	OHX	1	3514	-	0,6,6	-	-	-		
80	OHX	sR	1902	-	0,6,6	-	-	-		
80	OHX	1	3485	-	0,6,6	-	-	-		
80	OHX	1	3428	-	0,6,6	-	-	-		
80	OHX	A	1948	80	0,6,6	-	-	-		
80	OHX	1	4171	-	0,4,6	-	-	-		
80	OHX	A	2150	-	0,6,6	-	-	-		
80	OHX	1	3407	-	0,6,6	-	-	-		
80	OHX	1	4149	-	0,6,6	-	-	-		
80	OHX	AR	3550	-	0,6,6	-	-	-		
80	OHX	sR	2015	-	0,6,6	-	-	-		
80	OHX	1	4128	-	0,6,6	-	-	-		
80	OHX	1	403	-	0,6,6	-	-	-		
80	OHX	AR	3614	-	0,6,6	-	-	-		
80	OHX	AR	3544	-	0,6,6	-	-	-		
80	OHX	1	3413	-	0,6,6	-	-	-		
80	OHX	A	1941	-	0,6,6	-	-	-		
80	OHX	A	1957	-	0,6,6	-	-	-		
80	OHX	1	3487	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	1	3520[A]	-	0,6,6	-	-	-		
80	OHX	1	3628	-	0,6,6	-	-	-		
80	OHX	AR	3421	-	0,6,6	-	-	-		
80	OHX	AR	3480	-	0,6,6	-	-	-		
80	OHX	AR	3630	-	0,6,6	-	-	-		
80	OHX	AR	3517	-	0,6,6	-	-	-		
80	OHX	sR	1926	81	0,6,6	-	-	-		
80	OHX	sR	1986	-	0,6,6	-	-	-		
80	OHX	1	3402	-	0,6,6	-	-	-		
80	OHX	1	3602	-	0,6,6	-	-	-		
80	OHX	AR	3556	-	0,6,6	-	-	-		
80	OHX	AR	3596	-	0,6,6	-	-	-		
80	OHX	A	1959	-	0,6,6	-	-	-		
80	OHX	AR	3591	-	0,6,6	-	-	-		
80	OHX	1	3463	81	0,6,6	-	-	-		
80	OHX	1	3569	-	0,6,6	-	-	-		
80	OHX	1	3575	-	0,6,6	-	-	-		
80	OHX	AR	3503	-	0,6,6	-	-	-		
80	OHX	sR	1978	-	0,6,6	-	-	-		
80	OHX	sR	1906	-	0,6,6	-	-	-		
80	OHX	1	3504	-	0,6,6	-	-	-		
80	OHX	AR	3478	-	0,6,6	-	-	-		
80	OHX	AR	3693	-	0,6,6	-	-	-		
80	OHX	AR	3469	-	0,6,6	-	-	-		
80	OHX	AR	3435	81	0,6,6	-	-	-		
80	OHX	sR	1908	-	0,6,6	-	-	-		
80	OHX	1	4139	-	0,6,6	-	-	-		
86	5XU	c0	203	86	3,4,4	0.79	0	2,4,4	1.08	0
80	OHX	A	2139	-	0,6,6	-	-	-		
80	OHX	1	3461	-	0,6,6	-	-	-		
80	OHX	4	214	-	0,6,6	-	-	-		
80	OHX	sR	1954	-	0,6,6	-	-	-		
80	OHX	1	3565	-	0,6,6	-	-	-		
80	OHX	1	3608	-	0,6,6	-	-	-		
80	OHX	AR	3450	-	0,6,6	-	-	-		
80	OHX	AR	3699	-	0,6,6	-	-	-		
80	OHX	4	201	-	0,6,6	-	-	-		
80	OHX	sR	1990	-	0,6,6	-	-	-		
80	OHX	sR	1903	81	0,6,6	-	-	-		
80	OHX	1	3422	-	0,6,6	-	-	-		
80	OHX	AR	3518	-	0,6,6	-	-	-		
80	OHX	sR	1971	-	0,6,6	-	-	-		
80	OHX	1	3506	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	A	1946	-	0,6,6	-	-	-		
80	OHX	1	4146	-	0,6,6	-	-	-		
80	OHX	3	223	-	0,6,6	-	-	-		
80	OHX	A	1933	-	0,6,6	-	-	-		
80	OHX	sR	1910	-	0,6,6	-	-	-		
80	OHX	sR	2023	-	0,6,6	-	-	-		
80	OHX	A	1924	-	0,6,6	-	-	-		
80	OHX	c5	201	-	0,6,6	-	-	-		
80	OHX	AR	3613	81	0,6,6	-	-	-		
80	OHX	AR	3482	-	0,6,6	-	-	-		
80	OHX	1	4156	-	0,5,6	-	-	-		
80	OHX	AR	3668	-	0,6,6	-	-	-		
80	OHX	1	3468	-	0,6,6	-	-	-		
80	OHX	z	201	-	0,6,6	-	-	-		
80	OHX	A	1967	-	0,6,6	-	-	-		
80	OHX	A	2123	-	0,6,6	-	-	-		
80	OHX	sR	1964	-	0,6,6	-	-	-		
80	OHX	1	3609	-	0,6,6	-	-	-		
80	OHX	AR	3560	-	0,6,6	-	-	-		
80	OHX	AR	3593	-	0,6,6	-	-	-		
80	OHX	AR	3690	-	0,6,6	-	-	-		
80	OHX	1	4166	-	0,6,6	-	-	-		
80	OHX	A	1937	-	0,6,6	-	-	-		
80	OHX	1	4162	-	0,6,6	-	-	-		
80	OHX	1	3432	-	0,6,6	-	-	-		
80	OHX	A	2146	-	0,6,6	-	-	-		
80	OHX	1	3427	81	0,6,6	-	-	-		
80	OHX	AR	3535	-	0,6,6	-	-	-		
80	OHX	AR	3601	81	0,6,6	-	-	-		
80	OHX	AR	3650	-	0,6,6	-	-	-		
80	OHX	AR	3404	-	0,6,6	-	-	-		
80	OHX	A	2124	-	0,6,6	-	-	-		
80	OHX	AR	3540	-	0,6,6	-	-	-		
80	OHX	AR	3470	-	0,6,6	-	-	-		
80	OHX	1	4132	-	0,6,6	-	-	-		
80	OHX	1	4151	-	0,6,6	-	-	-		
80	OHX	AR	3669	-	0,6,6	-	-	-		
80	OHX	sR	1922	-	0,6,6	-	-	-		
80	OHX	1	4159	-	0,6,6	-	-	-		
80	OHX	AR	3439	-	0,6,6	-	-	-		
80	OHX	CG	303	-	0,6,6	-	-	-		
80	OHX	1	3522	-	0,6,6	-	-	-		
80	OHX	A	1977	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	1	3508	81	0,6,6	-	-	-		
80	OHX	AR	3463	-	0,6,6	-	-	-		
80	OHX	AT	210	-	0,6,6	-	-	-		
80	OHX	1	4138	-	0,6,6	-	-	-		
80	OHX	A	1922	-	0,6,6	-	-	-		
80	OHX	sR	1901	-	0,6,6	-	-	-		
80	OHX	sR	1904	-	0,6,6	-	-	-		
80	OHX	sR	2025	-	0,6,6	-	-	-		
80	OHX	A	2154	-	0,6,6	-	-	-		
80	OHX	1	3520[B]	-	0,6,6	-	-	-		
80	OHX	sR	1923	-	0,6,6	-	-	-		
80	OHX	1	3440	-	0,6,6	-	-	-		
80	OHX	1	3441	-	0,6,6	-	-	-		
80	OHX	s4	301	-	0,6,6	-	-	-		
80	OHX	1	3622	-	0,6,6	-	-	-		
80	OHX	1	3626	-	0,6,6	-	-	-		
80	OHX	h	401	-	0,6,6	-	-	-		
80	OHX	sR	1976	81	0,6,6	-	-	-		
80	OHX	AR	3623	-	0,6,6	-	-	-		
80	OHX	1	3640	-	0,6,6	-	-	-		
80	OHX	sR	1994	-	0,6,6	-	-	-		
80	OHX	AR	3417	-	0,6,6	-	-	-		
80	OHX	A	1949	81	0,6,6	-	-	-		
80	OHX	AR	3527	81	0,6,6	-	-	-		
80	OHX	1	3507	-	0,6,6	-	-	-		
80	OHX	AR	3604	-	0,6,6	-	-	-		
80	OHX	AR	3642	-	0,6,6	-	-	-		
80	OHX	1	3496	-	0,6,6	-	-	-		
80	OHX	sR	2005	-	0,6,6	-	-	-		
80	OHX	1	3638	-	0,6,6	-	-	-		
80	OHX	1	3546	-	0,6,6	-	-	-		
80	OHX	1	3590	-	0,6,6	-	-	-		
80	OHX	A	2158	-	0,6,6	-	-	-		
80	OHX	A	1975	-	0,6,6	-	-	-		
80	OHX	A	2130	-	0,6,6	-	-	-		
80	OHX	1	3470	-	0,6,6	-	-	-		
80	OHX	1	4163	81	0,6,6	-	-	-		
80	OHX	AS	209	-	0,6,6	-	-	-		
80	OHX	AT	204	-	0,6,6	-	-	-		
80	OHX	1	3451	-	0,6,6	-	-	-		
80	OHX	1	3636	81	0,6,6	-	-	-		
80	OHX	4	215	-	0,6,6	-	-	-		
80	OHX	AR	3626	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	AS	203	-	0,6,6	-	-	-		
80	OHX	A	1926	81	0,6,6	-	-	-		
80	OHX	4	236	-	0,6,6	-	-	-		
80	OHX	A	1915	-	0,6,6	-	-	-		
80	OHX	sR	1936	-	0,6,6	-	-	-		
80	OHX	1	4147	-	0,6,6	-	-	-		
80	OHX	CE	401	-	0,6,6	-	-	-		
80	OHX	2	201	-	0,6,6	-	-	-		
80	OHX	AR	3570	-	0,6,6	-	-	-		
80	OHX	sR	2182	-	0,6,6	-	-	-		
80	OHX	AR	3457	-	0,6,6	-	-	-		
80	OHX	sR	1975	-	0,6,6	-	-	-		
80	OHX	3	203	81	0,6,6	-	-	-		
80	OHX	AR	3427	-	0,6,6	-	-	-		
80	OHX	1	3536	81	0,6,6	-	-	-		
80	OHX	sR	1921	-	0,6,6	-	-	-		
80	OHX	AR	3602	-	0,6,6	-	-	-		
80	OHX	sR	1929	81	0,6,6	-	-	-		
80	OHX	1	3499	-	0,6,6	-	-	-		
80	OHX	3	202	-	0,6,6	-	-	-		
80	OHX	1	3625	-	0,6,6	-	-	-		
80	OHX	sR	2000	-	0,6,6	-	-	-		
80	OHX	1	3443	-	0,6,6	-	-	-		
80	OHX	AR	3579	-	0,6,6	-	-	-		
80	OHX	A	1904	-	0,6,6	-	-	-		
80	OHX	AR	3698	-	0,6,6	-	-	-		
80	OHX	A	2159[B]	-	0,6,6	-	-	-		
80	OHX	AR	3582	-	0,6,6	-	-	-		
80	OHX	AS	210	-	0,6,6	-	-	-		
80	OHX	AR	3509	-	0,6,6	-	-	-		
80	OHX	sR	1935	-	0,6,6	-	-	-		
80	OHX	AR	3426	-	0,6,6	-	-	-		
80	OHX	AR	3584	-	0,6,6	-	-	-		
80	OHX	AR	3600	-	0,6,6	-	-	-		
80	OHX	1	3411	-	0,6,6	-	-	-		
80	OHX	1	3484	81	0,6,6	-	-	-		
80	OHX	A	1906	-	0,6,6	-	-	-		
80	OHX	1	4148	-	0,6,6	-	-	-		
80	OHX	AR	3549	-	0,6,6	-	-	-		
80	OHX	AR	3438	-	0,6,6	-	-	-		
80	OHX	sR	1939	-	0,6,6	-	-	-		
83	SPD	AR	4200	-	9,9,9	0.33	0	8,8,8	1.12	1 (12%)
80	OHX	AR	3461	81	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	sR	1919	-	0,6,6	-	-	-		
80	OHX	A	1905	-	0,6,6	-	-	-		
80	OHX	sR	2185	-	0,5,6	-	-	-		
80	OHX	1	3447	81	0,6,6	-	-	-		
80	OHX	A	1960	-	0,6,6	-	-	-		
80	OHX	A	2118	-	0,6,6	-	-	-		
80	OHX	1	4155	-	0,6,6	-	-	-		
80	OHX	4	212	-	0,6,6	-	-	-		
80	OHX	1	3631	-	0,6,6	-	-	-		
80	OHX	1	3532	-	0,6,6	-	-	-		
80	OHX	1	3421	-	0,6,6	-	-	-		
80	OHX	AR	3621	81	0,6,6	-	-	-		
80	OHX	A	1920	-	0,6,6	-	-	-		
80	OHX	1	3577	-	0,6,6	-	-	-		
80	OHX	A	1907	-	0,6,6	-	-	-		
80	OHX	AR	3531	81	0,6,6	-	-	-		
80	OHX	sR	2035	-	0,6,6	-	-	-		
80	OHX	AR	3681	-	0,6,6	-	-	-		
80	OHX	1	3406	-	0,6,6	-	-	-		
80	OHX	1	3548	81	0,6,6	-	-	-		
80	OHX	A	2143	81	0,6,6	-	-	-		
80	OHX	1	3551	-	0,6,6	-	-	-		
80	OHX	k	403	-	0,6,6	-	-	-		
80	OHX	1	4125	-	0,6,6	-	-	-		
80	OHX	AR	3619	-	0,6,6	-	-	-		
80	OHX	sR	1997	-	0,6,6	-	-	-		
80	OHX	AR	3498	-	0,6,6	-	-	-		
80	OHX	1	3620	-	0,6,6	-	-	-		
80	OHX	AR	3590	-	0,6,6	-	-	-		
80	OHX	1	3476	-	0,6,6	-	-	-		
80	OHX	1	3607	-	0,6,6	-	-	-		
80	OHX	AR	3636	-	0,6,6	-	-	-		
80	OHX	AR	4232	-	0,6,6	-	-	-		
80	OHX	1	3630	-	0,6,6	-	-	-		
80	OHX	s8	302	-	0,6,6	-	-	-		
80	OHX	AR	3647	-	0,6,6	-	-	-		
80	OHX	AR	3670	-	0,6,6	-	-	-		
80	OHX	sR	1927	-	0,6,6	-	-	-		
80	OHX	1	4150	-	0,6,6	-	-	-		
80	OHX	AR	3423	-	0,6,6	-	-	-		
80	OHX	AR	3500	-	0,6,6	-	-	-		
80	OHX	AR	3545	-	0,6,6	-	-	-		
80	OHX	A	2151	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	AR	4231	81	0,6,6	-	-	-		
80	OHX	sR	1988	-	0,6,6	-	-	-		
80	OHX	1	3558	-	0,6,6	-	-	-		
80	OHX	sR	1950	-	0,6,6	-	-	-		
80	OHX	1	3481	-	0,6,6	-	-	-		
80	OHX	sR	1925	81	0,6,6	-	-	-		
80	OHX	A	2145	-	0,6,6	-	-	-		
80	OHX	sR	1956	-	0,6,6	-	-	-		
80	OHX	AR	3660	-	0,6,6	-	-	-		
80	OHX	AR	3682	81	0,6,6	-	-	-		
80	OHX	A	1921	-	0,6,6	-	-	-		
80	OHX	1	3478	-	0,6,6	-	-	-		
80	OHX	AR	3537	81	0,6,6	-	-	-		
80	OHX	AR	4225	-	0,6,6	-	-	-		
80	OHX	AR	4228	-	0,6,6	-	-	-		
80	OHX	AR	3643	-	0,6,6	-	-	-		
80	OHX	sR	1973	-	0,6,6	-	-	-		
80	OHX	AR	3473	-	0,6,6	-	-	-		
80	OHX	1	4127	-	0,6,6	-	-	-		
80	OHX	AR	3441	81	0,6,6	-	-	-		
80	OHX	sR	1943	-	0,6,6	-	-	-		
80	OHX	A	1981	-	0,6,6	-	-	-		
80	OHX	1	3599	-	0,6,6	-	-	-		
80	OHX	AR	3519	-	0,6,6	-	-	-		
80	OHX	r	304	-	0,6,6	-	-	-		
80	OHX	sR	1959	-	0,6,6	-	-	-		
80	OHX	AR	3640	81	0,6,6	-	-	-		
80	OHX	AR	3665	-	0,6,6	-	-	-		
80	OHX	AT	214	-	0,6,6	-	-	-		
80	OHX	1	4109	-	0,6,6	-	-	-		
80	OHX	AR	3680	-	0,6,6	-	-	-		
80	OHX	A	1961	-	0,6,6	-	-	-		
80	OHX	A	1964	-	0,6,6	-	-	-		
80	OHX	A	1971	-	0,6,6	-	-	-		
80	OHX	1	3490	81	0,6,6	-	-	-		
80	OHX	sR	2006	-	0,6,6	-	-	-		
80	OHX	1	3581	-	0,6,6	-	-	-		
80	OHX	1	4122	-	0,6,6	-	-	-		
80	OHX	1	3431	-	0,6,6	-	-	-		
80	OHX	sR	2187	-	0,6,6	-	-	-		
80	OHX	1	3542	-	0,6,6	-	-	-		
80	OHX	1	3619	-	0,6,6	-	-	-		
80	OHX	1	4141	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	1	4123	-	0,6,6	-	-	-		
80	OHX	AR	3674	-	0,6,6	-	-	-		
80	OHX	1	4173	-	0,6,6	-	-	-		
80	OHX	1	3525	-	0,6,6	-	-	-		
80	OHX	1	4182	-	0,6,6	-	-	-		
80	OHX	1	3597	-	0,6,6	-	-	-		
80	OHX	AR	3437	-	0,6,6	-	-	-		
80	OHX	CK	202	-	0,6,6	-	-	-		
80	OHX	AR	3574	-	0,6,6	-	-	-		
80	OHX	A	2141	-	0,6,6	-	-	-		
80	OHX	1	3423	-	0,6,6	-	-	-		
80	OHX	AR	3505	-	0,6,6	-	-	-		
80	OHX	AR	3546	-	0,6,6	-	-	-		
80	OHX	AR	3638	-	0,6,6	-	-	-		
80	OHX	sR	2178	-	0,6,6	-	-	-		
80	OHX	A	2147	-	0,6,6	-	-	-		
80	OHX	1	3502	-	0,6,6	-	-	-		
80	OHX	AR	3629	81	0,6,6	-	-	-		
80	OHX	1	3501	-	0,6,6	-	-	-		
80	OHX	1	3617	-	0,6,6	-	-	-		
80	OHX	sR	1979	-	0,6,6	-	-	-		
80	OHX	s1	301	81	0,6,6	-	-	-		
80	OHX	AS	204	-	0,6,6	-	-	-		
80	OHX	AR	3624	-	0,6,6	-	-	-		
80	OHX	1	3618[A]	-	0,6,6	-	-	-		
80	OHX	A	2119	-	0,6,6	-	-	-		
80	OHX	AS	208	-	0,6,6	-	-	-		
80	OHX	sR	1914	-	0,6,6	-	-	-		
80	OHX	AR	3562	-	0,6,6	-	-	-		
80	OHX	1	3601	81	0,6,6	-	-	-		
80	OHX	A	1978	-	0,6,6	-	-	-		
80	OHX	c8	202	-	0,6,6	-	-	-		
80	OHX	1	3580	-	0,6,6	-	-	-		
80	OHX	A	1976	-	0,6,6	-	-	-		
80	OHX	sR	1934	81	0,6,6	-	-	-		
80	OHX	AS	206	-	0,6,6	-	-	-		
80	OHX	1	4167	-	0,6,6	-	-	-		
80	OHX	sR	1931	-	0,6,6	-	-	-		
80	OHX	AR	3671	-	0,6,6	-	-	-		
80	OHX	1	3497	-	0,6,6	-	-	-		
80	OHX	sR	1918	-	0,6,6	-	-	-		
80	OHX	sR	2033	-	0,6,6	-	-	-		
80	OHX	1	3583	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	sR	1983	-	0,6,6	-	-	-		
80	OHX	AR	3692	81	0,6,6	-	-	-		
80	OHX	CL	301	-	0,6,6	-	-	-		
80	OHX	1	3561	-	0,6,6	-	-	-		
80	OHX	AR	3589	-	0,6,6	-	-	-		
80	OHX	AR	3606	-	0,6,6	-	-	-		
80	OHX	A	1903	81	0,6,6	-	-	-		
80	OHX	1	3454	-	0,6,6	-	-	-		
80	OHX	1	4161	81	0,6,6	-	-	-		
80	OHX	A	1973	-	0,6,6	-	-	-		
80	OHX	DL	102	-	0,6,6	-	-	-		
80	OHX	AR	3578	-	0,6,6	-	-	-		
80	OHX	AR	3532	-	0,6,6	-	-	-		
80	OHX	AR	3611	-	0,6,6	-	-	-		
80	OHX	sR	1987	-	0,6,6	-	-	-		
80	OHX	1	3404	-	0,6,6	-	-	-		
80	OHX	1	3540	-	0,6,6	-	-	-		
80	OHX	1	3472	-	0,6,6	-	-	-		
80	OHX	AR	3513[A]	-	0,6,6	-	-	-		
80	OHX	AR	4224	81	0,6,6	-	-	-		
80	OHX	sR	2008	-	0,6,6	-	-	-		
80	OHX	A	1911	81	0,6,6	-	-	-		
80	OHX	sR	1947	-	0,6,6	-	-	-		
80	OHX	1	3491	-	0,6,6	-	-	-		
80	OHX	e	102	-	0,6,6	-	-	-		
80	OHX	1	3418	81	0,6,6	-	-	-		
80	OHX	sR	1912	-	0,6,6	-	-	-		
80	OHX	AR	3462	-	0,6,6	-	-	-		
80	OHX	AR	3533	-	0,6,6	-	-	-		
80	OHX	AR	3597	-	0,6,6	-	-	-		
80	OHX	1	3494	-	0,6,6	-	-	-		
80	OHX	AR	3507	-	0,6,6	-	-	-		
80	OHX	1	3430	81	0,6,6	-	-	-		
80	OHX	1	3409	-	0,6,6	-	-	-		
80	OHX	A	1934	-	0,6,6	-	-	-		
80	OHX	1	4175	-	0,6,6	-	-	-		
80	OHX	A	2136	-	0,6,6	-	-	-		
80	OHX	AR	3666	-	0,6,6	-	-	-		
80	OHX	CE	402	-	0,6,6	-	-	-		
80	OHX	A	1927	-	0,6,6	-	-	-		
80	OHX	1	4158	-	0,6,6	-	-	-		
80	OHX	AR	3676	-	0,6,6	-	-	-		
80	OHX	A	1929	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	A	2133	-	0,6,6	-	-	-		
80	OHX	1	3465	-	0,6,6	-	-	-		
80	OHX	AR	3460	-	0,6,6	-	-	-		
80	OHX	AR	3443	-	0,6,6	-	-	-		
80	OHX	A	1945	-	0,6,6	-	-	-		
80	OHX	1	3541	-	0,6,6	-	-	-		
80	OHX	AR	3637	-	0,6,6	-	-	-		
80	OHX	sR	1963	-	0,6,6	-	-	-		
86	5XU	s3	302	86	3,3,4	0.63	0	0,2,4	-	-
80	OHX	sR	1998	-	0,6,6	-	-	-		
80	OHX	1	3612	-	0,6,6	-	-	-		
80	OHX	1	3488	-	0,6,6	-	-	-		
80	OHX	A	1956	-	0,6,6	-	-	-		
80	OHX	AR	3408	-	0,6,6	-	-	-		
80	OHX	AR	3569	-	0,6,6	-	-	-		
80	OHX	AR	3678	-	0,6,6	-	-	-		
80	OHX	AT	209	-	0,6,6	-	-	-		
80	OHX	AR	3552	81	0,6,6	-	-	-		
80	OHX	sR	2021	-	0,6,6	-	-	-		
80	OHX	AR	3696	-	0,6,6	-	-	-		
80	OHX	AR	3514	-	0,6,6	-	-	-		
80	OHX	AR	4227	-	0,6,6	-	-	-		
80	OHX	AR	3502	-	0,6,6	-	-	-		
80	OHX	AR	3471	-	0,6,6	-	-	-		
80	OHX	AR	3700[B]	-	0,6,6	-	-	-		
80	OHX	AR	3583	-	0,6,6	-	-	-		
80	OHX	AR	4237	-	0,5,6	-	-	-		
80	OHX	DQ	203	81	0,6,6	-	-	-		
80	OHX	1	3444	-	0,6,6	-	-	-		
80	OHX	AR	3418	-	0,6,6	-	-	-		
80	OHX	1	3618[B]	-	0,6,6	-	-	-		
80	OHX	sR	2016	-	0,6,6	-	-	-		
80	OHX	AR	3608	-	0,6,6	-	-	-		
80	OHX	sR	2190	-	0,6,6	-	-	-		
80	OHX	AR	3440	-	0,6,6	-	-	-		
80	OHX	AR	3477	-	0,6,6	-	-	-		
80	OHX	1	4177	-	0,6,6	-	-	-		
80	OHX	sR	1942	-	0,6,6	-	-	-		
80	OHX	sR	1980	-	0,6,6	-	-	-		
80	OHX	1	4169	-	0,6,6	-	-	-		
80	OHX	AR	3415	81	0,6,6	-	-	-		
80	OHX	AR	4235	-	0,6,6	-	-	-		
80	OHX	1	3604	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	1	3467	-	0,6,6	-	-	-		
80	OHX	A	1939	-	0,6,6	-	-	-		
80	OHX	AR	3530	-	0,6,6	-	-	-		
80	OHX	AR	4206	-	0,6,6	-	-	-		
80	OHX	1	4157	-	0,6,6	-	-	-		
80	OHX	AR	3581	-	0,6,6	-	-	-		
80	OHX	AR	3559	-	0,6,6	-	-	-		
80	OHX	4	205	-	0,6,6	-	-	-		
80	OHX	AR	3467	81	0,6,6	-	-	-		
80	OHX	AR	3628	-	0,6,6	-	-	-		
80	OHX	AR	3652	-	0,6,6	-	-	-		
80	OHX	1	3489	81	0,6,6	-	-	-		
80	OHX	sR	1999	-	0,6,6	-	-	-		
80	OHX	1	3616	-	0,6,6	-	-	-		
80	OHX	AR	3431	-	0,6,6	-	-	-		
80	OHX	AR	3520	-	0,6,6	-	-	-		
80	OHX	AR	3595	-	0,6,6	-	-	-		
80	OHX	1	3480	-	0,6,6	-	-	-		
80	OHX	A	2144	-	0,6,6	-	-	-		
80	OHX	sR	1948	-	0,6,6	-	-	-		
80	OHX	sR	1981	-	0,6,6	-	-	-		
80	OHX	AR	3528	81	0,6,6	-	-	-		
80	OHX	J	301	-	0,6,6	-	-	-		
80	OHX	AR	3575	-	0,6,6	-	-	-		
80	OHX	sR	1995	-	0,6,6	-	-	-		
80	OHX	AT	203	-	0,6,6	-	-	-		
80	OHX	AR	3609	-	0,6,6	-	-	-		
80	OHX	1	3429	-	0,6,6	-	-	-		
80	OHX	A	1972	-	0,6,6	-	-	-		
80	OHX	AR	3432	81	0,6,6	-	-	-		
80	OHX	AR	3475	-	0,6,6	-	-	-		
80	OHX	AR	3697	-	0,6,6	-	-	-		
80	OHX	AT	208	-	0,6,6	-	-	-		
80	OHX	AR	3695	-	0,6,6	-	-	-		
80	OHX	AR	3513[B]	-	0,6,6	-	-	-		
80	OHX	1	3513	-	0,6,6	-	-	-		
80	OHX	1	3603	-	0,6,6	-	-	-		
80	OHX	1	3473	-	0,6,6	-	-	-		
80	OHX	AR	3541	-	0,6,6	-	-	-		
80	OHX	sR	2004	-	0,6,6	-	-	-		
80	OHX	1	3567	-	0,6,6	-	-	-		
80	OHX	AR	3599	-	0,6,6	-	-	-		
80	OHX	c3	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	1	4180	-	0,5,6	-	-	-		
80	OHX	1	3531	-	0,6,6	-	-	-		
80	OHX	AR	3515	-	0,6,6	-	-	-		
80	OHX	A	1963	-	0,6,6	-	-	-		
80	OHX	AR	3662	-	0,6,6	-	-	-		
80	OHX	1	3549	-	0,6,6	-	-	-		
80	OHX	1	3516	-	0,6,6	-	-	-		
80	OHX	CP	302	-	0,6,6	-	-	-		
80	OHX	1	3605	-	0,6,6	-	-	-		
80	OHX	3	205	-	0,6,6	-	-	-		
80	OHX	1	4174	-	0,6,6	-	-	-		
80	OHX	1	3629	-	0,6,6	-	-	-		
80	OHX	1	3437	-	0,6,6	-	-	-		
80	OHX	1	3482	-	0,6,6	-	-	-		
80	OHX	1	3595	-	0,6,6	-	-	-		
80	OHX	AR	3472	-	0,6,6	-	-	-		
80	OHX	A	1930	-	0,6,6	-	-	-		
80	OHX	AR	3651	-	0,6,6	-	-	-		
80	OHX	A	1952	-	0,6,6	-	-	-		
80	OHX	sR	1993	-	0,6,6	-	-	-		
80	OHX	4	213	-	0,6,6	-	-	-		
80	OHX	AR	3474	81	0,6,6	-	-	-		
80	OHX	AK	104	81	0,6,6	-	-	-		
80	OHX	AR	3673	-	0,6,6	-	-	-		
80	OHX	AR	3655	-	0,6,6	-	-	-		
80	OHX	1	3635	-	0,6,6	-	-	-		
80	OHX	AR	3487	-	0,6,6	-	-	-		
80	OHX	AR	3424	-	0,6,6	-	-	-		
80	OHX	A	1910	-	0,6,6	-	-	-		
80	OHX	A	1902	-	0,6,6	-	-	-		
80	OHX	AR	3430	81	0,6,6	-	-	-		
80	OHX	AR	3494	-	0,6,6	-	-	-		
80	OHX	1	3639	-	0,6,6	-	-	-		
80	OHX	AR	3511	-	0,6,6	-	-	-		
80	OHX	sR	1911	-	0,6,6	-	-	-		
80	OHX	sR	1924	-	0,6,6	-	-	-		
80	OHX	1	3537	-	0,6,6	-	-	-		
80	OHX	AR	3588	-	0,6,6	-	-	-		
80	OHX	1	3547	-	0,6,6	-	-	-		
80	OHX	1	3632	-	0,6,6	-	-	-		
80	OHX	sR	1991	-	0,6,6	-	-	-		
80	OHX	1	4130	-	0,6,6	-	-	-		
80	OHX	AR	3538	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	1	4176	-	0,6,6	-	-	-		
80	OHX	AR	3476	-	0,6,6	-	-	-		
80	OHX	AR	3607	-	0,6,6	-	-	-		
80	OHX	1	3448	-	0,6,6	-	-	-		
80	OHX	1	3408	-	0,6,6	-	-	-		
80	OHX	AR	3568	-	0,6,6	-	-	-		
80	OHX	sR	2009	-	0,6,6	-	-	-		
80	OHX	A	2149	-	0,6,6	-	-	-		
80	OHX	sR	1916[A]	-	0,6,6	-	-	-		
80	OHX	AR	3555	-	0,6,6	-	-	-		
80	OHX	AR	3610	-	0,6,6	-	-	-		
80	OHX	A	1909	-	0,6,6	-	-	-		
80	OHX	1	3419	-	0,6,6	-	-	-		
80	OHX	A	2152	-	0,6,6	-	-	-		
80	OHX	1	3510	-	0,6,6	-	-	-		
80	OHX	AR	3571	-	0,6,6	-	-	-		
80	OHX	AR	3620	81	0,6,6	-	-	-		
80	OHX	A	2131	-	0,6,6	-	-	-		
80	OHX	sR	2014	-	0,6,6	-	-	-		
80	OHX	A	2110	-	0,6,6	-	-	-		
80	OHX	sR	1968	-	0,6,6	-	-	-		
80	OHX	1	3453	-	0,6,6	-	-	-		
80	OHX	1	3452	-	0,6,6	-	-	-		
80	OHX	sR	1917	-	0,6,6	-	-	-		
80	OHX	AR	3508	-	0,6,6	-	-	-		
80	OHX	1	3459	-	0,6,6	-	-	-		
80	OHX	1	3417	-	0,6,6	-	-	-		
80	OHX	1	3533	-	0,6,6	-	-	-		
80	OHX	AR	3664	81	0,6,6	-	-	-		
80	OHX	AT	211	-	0,6,6	-	-	-		
80	OHX	AR	3444	-	0,6,6	-	-	-		
80	OHX	A	1942	81	0,6,6	-	-	-		
80	OHX	AS	228	-	0,6,6	-	-	-		
80	OHX	1	3633	-	0,6,6	-	-	-		
80	OHX	1	3606	81	0,6,6	-	-	-		
80	OHX	1	3592	-	0,6,6	-	-	-		
80	OHX	1	3576	-	0,6,6	-	-	-		
80	OHX	3	206	-	0,6,6	-	-	-		
80	OHX	1	3457	-	0,6,6	-	-	-		
80	OHX	1	3563	-	0,6,6	-	-	-		
80	OHX	1	4154	-	0,6,6	-	-	-		
80	OHX	1	3589	-	0,6,6	-	-	-		
86	5XU	c0	201	86	3,4,4	0.80	0	2,4,4	0.64	0

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	AR	4234	-	0,6,6	-	-	-		
80	OHX	1	3538	-	0,6,6	-	-	-		
80	OHX	1	3434	-	0,6,6	-	-	-		
80	OHX	1	3545	-	0,6,6	-	-	-		
80	OHX	sR	1938	-	0,6,6	-	-	-		
80	OHX	A	1962	-	0,6,6	-	-	-		
80	OHX	1	3553	-	0,6,6	-	-	-		
80	OHX	1	3615	-	0,6,6	-	-	-		
80	OHX	1	3579	-	0,6,6	-	-	-		
80	OHX	A	2153	-	0,6,6	-	-	-		
80	OHX	sR	1982	-	0,6,6	-	-	-		
80	OHX	AR	3635	-	0,6,6	-	-	-		
80	OHX	4	210	-	0,6,6	-	-	-		
80	OHX	1	3587	-	0,6,6	-	-	-		
80	OHX	AR	3468	-	0,6,6	-	-	-		
80	OHX	AR	3536	-	0,6,6	-	-	-		
80	OHX	1	3534	-	0,6,6	-	-	-		
80	OHX	AR	3625	-	0,6,6	-	-	-		
80	OHX	AR	3686	-	0,6,6	-	-	-		
80	OHX	sR	2024	-	0,6,6	-	-	-		
80	OHX	AR	3522	-	0,6,6	-	-	-		
80	OHX	1	3495	-	0,6,6	-	-	-		
80	OHX	1	3458	-	0,6,6	-	-	-		
80	OHX	AR	3491	-	0,6,6	-	-	-		
80	OHX	AP	502	81	0,6,6	-	-	-		
80	OHX	AR	3672	-	0,6,6	-	-	-		
80	OHX	1	3416	81	0,6,6	-	-	-		
80	OHX	AR	3402	-	0,6,6	-	-	-		
80	OHX	1	3641	-	0,6,6	-	-	-		
80	OHX	sR	1966	-	0,6,6	-	-	-		
80	OHX	A	2117	-	0,6,6	-	-	-		
80	OHX	1	3492	-	0,6,6	-	-	-		
80	OHX	AR	3612	-	0,6,6	-	-	-		
80	OHX	AR	3506	-	0,6,6	-	-	-		
80	OHX	1	3544	81	0,6,6	-	-	-		
80	OHX	3	204	-	0,6,6	-	-	-		
80	OHX	AR	3656	-	0,6,6	-	-	-		
80	OHX	A	1931	-	0,6,6	-	-	-		
80	OHX	sR	2032	-	0,6,6	-	-	-		
80	OHX	A	1966	-	0,6,6	-	-	-		
80	OHX	1	3486	-	0,6,6	-	-	-		
80	OHX	AR	3420	81	0,6,6	-	-	-		
80	OHX	AR	3558	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	A	2148	-	0,6,6	-	-	-		
80	OHX	1	3425	-	0,6,6	-	-	-		
80	OHX	1	3524	-	0,6,6	-	-	-		
80	OHX	1	4129	-	0,6,6	-	-	-		
80	OHX	AR	3646	-	0,6,6	-	-	-		
80	OHX	CG	302	-	0,6,6	-	-	-		
80	OHX	sR	1933	-	0,6,6	-	-	-		
80	OHX	1	3446	81	0,6,6	-	-	-		
80	OHX	1	3521	-	0,6,6	-	-	-		
80	OHX	AR	3410	81	0,6,6	-	-	-		
80	OHX	AR	3481	-	0,6,6	-	-	-		
80	OHX	1	3585	-	0,6,6	-	-	-		
80	OHX	A	2129	-	0,6,6	-	-	-		
80	OHX	AR	3616	-	0,6,6	-	-	-		
80	OHX	1	3477	-	0,6,6	-	-	-		
80	OHX	1	3414	-	0,6,6	-	-	-		
80	OHX	1	3530	-	0,6,6	-	-	-		
80	OHX	1	3573	-	0,6,6	-	-	-		
80	OHX	AR	3521	-	0,6,6	-	-	-		
80	OHX	1	3543	-	0,6,6	-	-	-		
80	OHX	sR	1920	-	0,6,6	-	-	-		
80	OHX	AR	3454	-	0,6,6	-	-	-		
80	OHX	1	3433	-	0,6,6	-	-	-		
80	OHX	1	3572	-	0,6,6	-	-	-		
80	OHX	1	4152	-	0,6,6	-	-	-		
80	OHX	AR	3406	-	0,6,6	-	-	-		
80	OHX	sR	1916[B]	-	0,6,6	-	-	-		
80	OHX	A	1940	-	0,6,6	-	-	-		
80	OHX	1	3526	-	0,6,6	-	-	-		
80	OHX	AR	3433	-	0,6,6	-	-	-		
80	OHX	1	3412	-	0,6,6	-	-	-		
80	OHX	AG	201	-	0,6,6	-	-	-		
80	OHX	AR	3659	-	0,6,6	-	-	-		
80	OHX	sR	1957	-	0,6,6	-	-	-		
80	OHX	sR	1930	-	0,6,6	-	-	-		
80	OHX	AR	3667	-	0,6,6	-	-	-		
80	OHX	d6	201	-	0,6,6	-	-	-		
80	OHX	AR	3466	-	0,6,6	-	-	-		
80	OHX	AR	3633	-	0,6,6	-	-	-		
80	OHX	1	4134	-	0,6,6	-	-	-		
80	OHX	AR	3446	-	0,6,6	-	-	-		
80	OHX	sR	2174	-	0,6,6	-	-	-		
80	OHX	A	1980	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	1	3557	-	0,6,6	-	-	-		
80	OHX	1	3559	-	0,6,6	-	-	-		
80	OHX	1	4153	-	0,6,6	-	-	-		
80	OHX	AR	3542	-	0,6,6	-	-	-		
80	OHX	Q	201	-	0,6,6	-	-	-		
80	OHX	AR	3661	-	0,6,6	-	-	-		
80	OHX	AR	4230	-	0,6,6	-	-	-		
80	OHX	AR	3553	-	0,6,6	-	-	-		
80	OHX	1	4165	-	0,6,6	-	-	-		
80	OHX	1	3552	-	0,6,6	-	-	-		
80	OHX	1	3568	-	0,6,6	-	-	-		
80	OHX	1	4140	81	0,6,6	-	-	-		
80	OHX	A	2115	-	0,6,6	-	-	-		
80	OHX	1	4133	-	0,6,6	-	-	-		
80	OHX	sR	1951	-	0,6,6	-	-	-		
80	OHX	sR	1907	-	0,6,6	-	-	-		
80	OHX	1	3500	-	0,6,6	-	-	-		
80	OHX	1	3593	-	0,6,6	-	-	-		
80	OHX	3	221	-	0,6,6	-	-	-		
80	OHX	AR	3403	-	0,6,6	-	-	-		
80	OHX	A	1908	-	0,6,6	-	-	-		
80	OHX	1	3594	-	0,6,6	-	-	-		
80	OHX	AR	3534	-	0,6,6	-	-	-		
80	OHX	AR	3632	-	0,6,6	-	-	-		
80	OHX	1	4126	-	0,6,6	-	-	-		
80	OHX	AR	3419	-	0,6,6	-	-	-		
80	OHX	1	4135	-	0,6,6	-	-	-		
80	OHX	AR	3501	-	0,6,6	-	-	-		
80	OHX	1	3535	-	0,6,6	-	-	-		
80	OHX	k	402	-	0,6,6	-	-	-		
80	OHX	AR	3644	81	0,6,6	-	-	-		
80	OHX	AR	3663	-	0,6,6	-	-	-		
80	OHX	AR	3566	-	0,6,6	-	-	-		
80	OHX	1	3556	-	0,6,6	-	-	-		
80	OHX	1	3582	-	0,6,6	-	-	-		
80	OHX	sR	1992	-	0,6,6	-	-	-		
80	OHX	sR	1909	-	0,6,6	-	-	-		
83	SPD	1	4106	-	9,9,9	0.32	0	8,8,8	0.81	0
80	OHX	A	2140	-	0,6,6	-	-	-		
80	OHX	AR	3452	-	0,6,6	-	-	-		
80	OHX	1	4144	-	0,6,6	-	-	-		
80	OHX	1	3600	-	0,6,6	-	-	-		
80	OHX	A	1968	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	CX	201	-	0,6,6	-	-	-		
80	OHX	A	1925	-	0,6,6	-	-	-		
80	OHX	A	2125	-	0,6,6	-	-	-		
80	OHX	n	201	-	0,6,6	-	-	-		
80	OHX	AR	3447	-	0,6,6	-	-	-		
80	OHX	1	3528	-	0,6,6	-	-	-		
80	OHX	1	3450	-	0,6,6	-	-	-		
80	OHX	1	3613	-	0,6,6	-	-	-		
80	OHX	AR	3414	-	0,6,6	-	-	-		
80	OHX	AR	3525	-	0,6,6	-	-	-		
80	OHX	AR	3561	-	0,6,6	-	-	-		
80	OHX	AR	3493	-	0,6,6	-	-	-		
80	OHX	A	2128	81	0,6,6	-	-	-		
80	OHX	1	4164	81	0,6,6	-	-	-		
80	OHX	AR	3631	-	0,6,6	-	-	-		
80	OHX	A	2121	-	0,6,6	-	-	-		
80	OHX	A	2134	-	0,6,6	-	-	-		
80	OHX	4	204	-	0,6,6	-	-	-		
80	OHX	AR	3401	-	0,6,6	-	-	-		
80	OHX	sR	2012	-	0,6,6	-	-	-		
80	OHX	1	3623	-	0,6,6	-	-	-		
80	OHX	sR	1969	-	0,6,6	-	-	-		
80	OHX	AR	3548	-	0,6,6	-	-	-		
80	OHX	CS	202	-	0,6,6	-	-	-		
80	OHX	sR	1915	-	0,6,6	-	-	-		
80	OHX	sR	2183	-	0,6,6	-	-	-		
80	OHX	A	1970	-	0,6,6	-	-	-		
80	OHX	AR	3551	-	0,6,6	-	-	-		
80	OHX	4	209	-	0,6,6	-	-	-		
80	OHX	AC	102	-	0,6,6	-	-	-		
80	OHX	AR	3587	-	0,6,6	-	-	-		
80	OHX	1	3588	-	0,6,6	-	-	-		
80	OHX	1	4136	-	0,6,6	-	-	-		
80	OHX	1	4172	-	0,6,6	-	-	-		
80	OHX	AR	3701	-	0,6,6	-	-	-		
80	OHX	sR	1967	-	0,6,6	-	-	-		
80	OHX	A	2127	-	0,6,6	-	-	-		
80	OHX	1	3512	-	0,6,6	-	-	-		
80	OHX	sR	2027	-	0,6,6	-	-	-		
80	OHX	1	3562	-	0,6,6	-	-	-		
80	OHX	AR	3455	-	0,5,6	-	-	-		
80	OHX	AR	3564	81	0,6,6	-	-	-		
80	OHX	sR	2180	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	sR	1974	-	0,6,6	-	-	-		
80	OHX	AR	3512	-	0,6,6	-	-	-		
80	OHX	1	3445	81	0,6,6	-	-	-		
80	OHX	y	201	-	0,6,6	-	-	-		
80	OHX	1	3527	-	0,6,6	-	-	-		
80	OHX	AR	3495	-	0,6,6	-	-	-		
80	OHX	A	1901	-	0,6,6	-	-	-		
80	OHX	AR	4229	-	0,6,6	-	-	-		
80	OHX	sR	1958	-	0,6,6	-	-	-		
80	OHX	sR	2179	-	0,6,6	-	-	-		
80	OHX	AR	3445	-	0,6,6	-	-	-		
80	OHX	sR	1955	-	0,6,6	-	-	-		
80	OHX	AR	4238	-	0,6,6	-	-	-		
80	OHX	AR	3409	-	0,6,6	-	-	-		
80	OHX	AR	3489	-	0,6,6	-	-	-		
80	OHX	AR	3594	-	0,6,6	-	-	-		
80	OHX	1	3420	-	0,6,6	-	-	-		
80	OHX	1	3570	-	0,6,6	-	-	-		
80	OHX	sR	2189	-	0,6,6	-	-	-		
80	OHX	1	3442	-	0,6,6	-	-	-		
80	OHX	A	1979	-	0,6,6	-	-	-		
80	OHX	1	3410	-	0,6,6	-	-	-		
80	OHX	AT	215	-	0,6,6	-	-	-		
80	OHX	sR	2019	-	0,6,6	-	-	-		
80	OHX	A	1936	-	0,6,6	-	-	-		
80	OHX	AR	3465	-	0,6,6	-	-	-		
80	OHX	1	3554	-	0,6,6	-	-	-		
80	OHX	sR	2029	-	0,6,6	-	-	-		
80	OHX	AR	3585	-	0,6,6	-	-	-		
80	OHX	1	4108	-	0,6,6	-	-	-		
80	OHX	1	3529	-	0,6,6	-	-	-		
80	OHX	1	3515	-	0,6,6	-	-	-		
80	OHX	sR	2026	-	0,6,6	-	-	-		
80	OHX	sR	2186	-	0,6,6	-	-	-		
80	OHX	AR	3425	-	0,6,6	-	-	-		
80	OHX	sR	2022	-	0,6,6	-	-	-		
80	OHX	AR	4213	81	0,6,6	-	-	-		
80	OHX	sR	1984	-	0,6,6	-	-	-		
80	OHX	1	3578	81	0,6,6	-	-	-		
80	OHX	1	4143	-	0,6,6	-	-	-		
80	OHX	DK	201	-	0,6,6	-	-	-		
80	OHX	4	203	-	0,6,6	-	-	-		
80	OHX	AR	3685	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	AR	3412	-	0,6,6	-	-	-		
80	OHX	sR	1961	-	0,6,6	-	-	-		
80	OHX	AR	3645	-	0,6,6	-	-	-		
80	OHX	A	1923	-	0,6,6	-	-	-		
80	OHX	1	3539	81	0,6,6	-	-	-		
80	OHX	sR	2003	-	0,6,6	-	-	-		
80	OHX	A	1913	-	0,6,6	-	-	-		
80	OHX	sR	2013	-	0,6,6	-	-	-		
80	OHX	1	3584	-	0,6,6	-	-	-		
80	OHX	d4	201	-	0,6,6	-	-	-		
80	OHX	Rb	401	-	0,6,6	-	-	-		
80	OHX	sR	2034	-	0,6,6	-	-	-		
80	OHX	1	3456	-	0,6,6	-	-	-		
80	OHX	AR	3657	-	0,6,6	-	-	-		
80	OHX	sR	1965	-	0,6,6	-	-	-		
80	OHX	AR	3456	-	0,6,6	-	-	-		
80	OHX	AR	3617	-	0,6,6	-	-	-		
80	OHX	AR	3691	-	0,6,6	-	-	-		
80	OHX	1	4170	-	0,6,6	-	-	-		
80	OHX	1	3439	-	0,6,6	-	-	-		
80	OHX	DD	101	-	0,6,6	-	-	-		
80	OHX	1	3498	-	0,6,6	-	-	-		
80	OHX	AE	201	-	0,6,6	-	-	-		
80	OHX	AR	3436	-	0,6,6	-	-	-		
80	OHX	1	3460	-	0,6,6	-	-	-		
80	OHX	1	4124	-	0,6,6	-	-	-		
80	OHX	A	2137	-	0,6,6	-	-	-		
80	OHX	A	2159[A]	-	0,6,6	-	-	-		
80	OHX	AT	205	-	0,6,6	-	-	-		
80	OHX	AR	3653	81	0,6,6	-	-	-		
80	OHX	sR	1944	-	0,6,6	-	-	-		
80	OHX	3	222	-	0,6,6	-	-	-		
80	OHX	A	1950	-	0,6,6	-	-	-		
80	OHX	sR	1962	-	0,6,6	-	-	-		
80	OHX	A	1974	-	0,6,6	-	-	-		
80	OHX	1	3469	81	0,6,6	-	-	-		
80	OHX	1	3435	-	0,6,6	-	-	-		
80	OHX	A	1928	-	0,6,6	-	-	-		
80	OHX	AR	3499	-	0,6,6	-	-	-		
80	OHX	A	2114	-	0,6,6	-	-	-		
80	OHX	sR	1953	-	0,6,6	-	-	-		
80	OHX	O	201	-	0,6,6	-	-	-		
80	OHX	k	404	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	A	1943	-	0,6,6	-	-	-		
80	OHX	1	3624	-	0,6,6	-	-	-		
80	OHX	CG	304	-	0,6,6	-	-	-		
80	OHX	A	2116	-	0,6,6	-	-	-		
80	OHX	AR	3453	-	0,6,6	-	-	-		
80	OHX	AR	3658	-	0,6,6	-	-	-		
86	5XU	s3	301	86	3,4,4	0.69	0	2,4,4	2.03	1 (50%)
80	OHX	1	3550	-	0,6,6	-	-	-		
80	OHX	1	3627	-	0,6,6	-	-	-		
80	OHX	AR	3648	-	0,6,6	-	-	-		
80	OHX	1	3598	-	0,6,6	-	-	-		
80	OHX	AR	4233	81	0,6,6	-	-	-		
80	OHX	sR	2002	-	0,6,6	-	-	-		
80	OHX	AR	3464	-	0,6,6	-	-	-		
80	OHX	AR	3459	81	0,6,6	-	-	-		
80	OHX	AR	3504	-	0,6,6	-	-	-		
80	OHX	CL	302	-	0,6,6	-	-	-		
80	OHX	AR	3524	-	0,6,6	-	-	-		
80	OHX	sR	2010	-	0,6,6	-	-	-		
80	OHX	sR	1949	-	0,6,6	-	-	-		
80	OHX	AR	4236	-	0,6,6	-	-	-		
80	OHX	AR	3586	-	0,6,6	-	-	-		
80	OHX	3	201	-	0,6,6	-	-	-		
80	OHX	A	1916	-	0,6,6	-	-	-		
80	OHX	1	3462	-	0,6,6	-	-	-		
80	OHX	A	1954	-	0,6,6	-	-	-		
80	OHX	1	3519	-	0,6,6	-	-	-		
80	OHX	1	3505	-	0,6,6	-	-	-		
80	OHX	1	4181	80	0,6,6	-	-	-		
80	OHX	sR	2017	-	0,6,6	-	-	-		
80	OHX	AR	3413	-	0,6,6	-	-	-		
80	OHX	4	207	-	0,6,6	-	-	-		
80	OHX	1	3503	-	0,6,6	-	-	-		
80	OHX	1	3479	-	0,6,6	-	-	-		
80	OHX	A	2156	80	0,5,6	-	-	-		
80	OHX	AR	3679	-	0,6,6	-	-	-		
80	OHX	AR	3684	-	0,6,6	-	-	-		
80	OHX	1	4142	-	0,6,6	-	-	-		
80	OHX	A	2135	-	0,6,6	-	-	-		
80	OHX	1	3621	-	0,6,6	-	-	-		
80	OHX	AR	3485	-	0,6,6	-	-	-		
80	OHX	AR	3654	-	0,6,6	-	-	-		
80	OHX	AR	3526	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
80	OHX	1	4168	-	0,6,6	-	-	-		
80	OHX	sR	1937	-	0,6,6	-	-	-		
80	OHX	1	3566	-	0,6,6	-	-	-		
80	OHX	sR	1945	-	0,6,6	-	-	-		
80	OHX	A	2122	-	0,6,6	-	-	-		
80	OHX	A	1932	-	0,6,6	-	-	-		
80	OHX	sR	2018	-	0,6,6	-	-	-		
80	OHX	AT	207	-	0,6,6	-	-	-		
80	OHX	AR	3483	-	0,6,6	-	-	-		
80	OHX	A	1914	-	0,6,6	-	-	-		
80	OHX	sR	2176	-	0,6,6	-	-	-		
80	OHX	1	3466	80	0,5,6	-	-	-		
80	OHX	AR	3496	-	0,6,6	-	-	-		
80	OHX	1	3523	-	0,6,6	-	-	-		
80	OHX	1	3591	-	0,6,6	-	-	-		
80	OHX	1	3634	-	0,6,6	-	-	-		
80	OHX	AR	3422	-	0,6,6	-	-	-		
80	OHX	sR	2188	-	0,6,6	-	-	-		
80	OHX	DH	202	-	0,6,6	-	-	-		
80	OHX	1	3509	-	0,6,6	-	-	-		
80	OHX	AR	3677	-	0,6,6	-	-	-		
80	OHX	sR	1913	-	0,6,6	-	-	-		
80	OHX	1	3555	-	0,6,6	-	-	-		
80	OHX	AR	4226	-	0,6,6	-	-	-		
80	OHX	A	1953	-	0,6,6	-	-	-		
80	OHX	1	4160	-	0,6,6	-	-	-		
80	OHX	4	206	-	0,6,6	-	-	-		
80	OHX	AR	3565	81	0,6,6	-	-	-		
80	OHX	AT	213	-	0,6,6	-	-	-		
80	OHX	sR	1977	-	0,6,6	-	-	-		
80	OHX	1	3493	81	0,6,6	-	-	-		
80	OHX	AR	3448	-	0,6,6	-	-	-		
80	OHX	AR	3529	-	0,6,6	-	-	-		
80	OHX	A	1918	-	0,6,6	-	-	-		
80	OHX	AR	3618	-	0,6,6	-	-	-		
80	OHX	AR	3492	-	0,6,6	-	-	-		
80	OHX	AR	3484	-	0,6,6	-	-	-		
80	OHX	AR	3689	-	0,6,6	-	-	-		
80	OHX	1	3610	-	0,6,6	-	-	-		
80	OHX	z	204	-	0,6,6	-	-	-		
80	OHX	AR	3516	-	0,6,6	-	-	-		
80	OHX	A	1969	-	0,6,6	-	-	-		
80	OHX	AR	3486	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	AR	3563	-	0,6,6	-	-	-		
80	OHX	1	3401	-	0,6,6	-	-	-		
80	OHX	1	3415	-	0,6,6	-	-	-		
80	OHX	x	209	-	0,6,6	-	-	-		
80	OHX	sR	1952	-	0,6,6	-	-	-		
80	OHX	AR	3416	-	0,6,6	-	-	-		
80	OHX	1	3449	-	0,6,6	-	-	-		
80	OHX	T	201	-	0,6,6	-	-	-		
80	OHX	1	3637	-	0,6,6	-	-	-		
80	OHX	AR	3428	-	0,6,6	-	-	-		
80	OHX	AR	3490	-	0,6,6	-	-	-		
80	OHX	sR	1985	-	0,6,6	-	-	-		
80	OHX	sR	1940	-	0,6,6	-	-	-		
80	OHX	sR	1970	81	0,6,6	-	-	-		
80	OHX	A	1912	-	0,6,6	-	-	-		
80	OHX	A	2120	-	0,6,6	-	-	-		
80	OHX	AR	3598	-	0,6,6	-	-	-		
84	VDU	1	4195	-	28,28,28	0.39	0	35,45,45	1.03	2 (5%)
80	OHX	AR	3639	-	0,6,6	-	-	-		
80	OHX	4	238	-	0,6,6	-	-	-		
80	OHX	AR	3547	81	0,6,6	-	-	-		
80	OHX	AR	3539	-	0,6,6	-	-	-		
80	OHX	1	3614	-	0,6,6	-	-	-		
80	OHX	1	3405	-	0,6,6	-	-	-		
80	OHX	1	3483	-	0,6,6	-	-	-		
80	OHX	AS	205	81	0,6,6	-	-	-		
80	OHX	AR	3576	-	0,6,6	-	-	-		
80	OHX	1	4145	-	0,6,6	-	-	-		
80	OHX	3	219	-	0,6,6	-	-	-		
80	OHX	sR	1972	-	0,6,6	-	-	-		
80	OHX	1	4131	81	0,6,6	-	-	-		
80	OHX	1	4137	-	0,6,6	-	-	-		
80	OHX	AR	3572	-	0,6,6	-	-	-		
80	OHX	A	2142	-	0,6,6	-	-	-		
80	OHX	v	301	-	0,6,6	-	-	-		
80	OHX	AR	3479	-	0,6,6	-	-	-		
80	OHX	AR	3429	-	0,6,6	-	-	-		
80	OHX	1	3560	-	0,6,6	-	-	-		
80	OHX	A	1951	-	0,6,6	-	-	-		
80	OHX	CL	304	-	0,5,6	-	-	-		
80	OHX	A	1947	-	0,6,6	-	-	-		
80	OHX	1	3455	-	0,6,6	-	-	-		
80	OHX	1	3517	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	1	3564	81	0,6,6	-	-	-		
80	OHX	AR	3577	-	0,6,6	-	-	-		
80	OHX	AR	3675	-	0,6,6	-	-	-		
80	OHX	sR	2020	-	0,6,6	-	-	-		
80	OHX	AR	3557	81	0,6,6	-	-	-		
80	OHX	AR	3605	-	0,6,6	-	-	-		
80	OHX	4	237	-	0,6,6	-	-	-		
86	5XU	c0	202	86	3,4,4	0.84	0	2,4,4	0.93	0
80	OHX	AR	3523	-	0,6,6	-	-	-		
80	OHX	AT	212	-	0,6,6	-	-	-		
80	OHX	AR	3554	-	0,6,6	-	-	-		
80	OHX	S	201	-	0,6,6	-	-	-		
80	OHX	A	1955	-	0,6,6	-	-	-		
80	OHX	sR	1928	-	0,6,6	-	-	-		
80	OHX	A	2157	-	0,6,6	-	-	-		
80	OHX	sR	2181	-	0,6,6	-	-	-		
80	OHX	A	1935	-	0,6,6	-	-	-		
80	OHX	AR	3603	-	0,6,6	-	-	-		
80	OHX	1	3464	-	0,6,6	-	-	-		
80	OHX	AR	3627	-	0,6,6	-	-	-		
80	OHX	sR	1946	-	0,6,6	-	-	-		
80	OHX	3	220	-	0,6,6	-	-	-		
80	OHX	sR	2030	-	0,6,6	-	-	-		
80	OHX	1	3611	-	0,6,6	-	-	-		
80	OHX	A	2126	-	0,6,6	-	-	-		
80	OHX	AT	201	-	0,6,6	-	-	-		
80	OHX	sR	2007	-	0,6,6	-	-	-		
84	VDU	AR	4255	-	28,28,28	0.39	0	35,45,45	1.03	2 (5%)
80	OHX	AT	206	-	0,6,6	-	-	-		
80	OHX	1	3586	-	0,6,6	-	-	-		
80	OHX	A	1919	-	0,6,6	-	-	-		
80	OHX	1	4179	-	0,6,6	-	-	-		
80	OHX	A	1965	-	0,6,6	-	-	-		
80	OHX	1	4178	-	0,6,6	-	-	-		
80	OHX	1	3518	-	0,6,6	-	-	-		
80	OHX	A	2132	-	0,6,6	-	-	-		
80	OHX	AR	3622	-	0,6,6	-	-	-		
80	OHX	AR	3683	-	0,6,6	-	-	-		
80	OHX	A	1917	-	0,6,6	-	-	-		
80	OHX	AR	3497	81	0,6,6	-	-	-		
80	OHX	A	1938	-	0,6,6	-	-	-		
80	OHX	1	3574	-	0,6,6	-	-	-		
80	OHX	A	1944	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	AR	3543	-	0,6,6	-	-	-		
80	OHX	AR	3649	-	0,6,6	-	-	-		
80	OHX	sR	1941	-	0,6,6	-	-	-		
80	OHX	sR	1996	-	0,6,6	-	-	-		
80	OHX	AR	3688	-	0,6,6	-	-	-		
80	OHX	1	3471	-	0,6,6	-	-	-		
80	OHX	AR	3411	-	0,6,6	-	-	-		
80	OHX	1	3436	81	0,6,6	-	-	-		
80	OHX	1	3403	-	0,6,6	-	-	-		
80	OHX	AR	3687	-	0,6,6	-	-	-		
80	OHX	sR	2184	-	0,6,6	-	-	-		
80	OHX	sR	1960	-	0,6,6	-	-	-		
80	OHX	AR	3694	-	0,6,6	-	-	-		
80	OHX	4	208	81	0,6,6	-	-	-		
80	OHX	sR	2031	-	0,6,6	-	-	-		
80	OHX	A	2138	-	0,6,6	-	-	-		
80	OHX	AR	3449	-	0,6,6	-	-	-		
80	OHX	AR	3458	-	0,6,6	-	-	-		
80	OHX	AR	3407	-	0,6,6	-	-	-		
80	OHX	1	3475	-	0,6,6	-	-	-		
80	OHX	1	3596	81	0,6,6	-	-	-		
80	OHX	A	1958	-	0,6,6	-	-	-		
80	OHX	AR	3451	-	0,6,6	-	-	-		
80	OHX	AR	3567	-	0,6,6	-	-	-		
80	OHX	AR	3641	-	0,6,6	-	-	-		
80	OHX	1	3474	-	0,6,6	-	-	-		
80	OHX	AS	202	-	0,6,6	-	-	-		
80	OHX	AR	3615	-	0,6,6	-	-	-		
80	OHX	sR	1932	-	0,6,6	-	-	-		
80	OHX	1	3424	-	0,6,6	-	-	-		
80	OHX	1	3571	-	0,6,6	-	-	-		
80	OHX	1	3511	-	0,6,6	-	-	-		
80	OHX	AS	207	-	0,6,6	-	-	-		
80	OHX	1	3438	81	0,6,6	-	-	-		
80	OHX	4	211	-	0,6,6	-	-	-		
80	OHX	AR	3580	-	0,6,6	-	-	-		
80	OHX	AR	3405	-	0,6,6	-	-	-		
80	OHX	AR	3634	-	0,6,6	-	-	-		
80	OHX	AR	3700[A]	-	0,6,6	-	-	-		
80	OHX	sR	2177	-	0,6,6	-	-	-		
80	OHX	AR	3592	81	0,6,6	-	-	-		
80	OHX	AR	3442	-	0,6,6	-	-	-		
80	OHX	AR	3573	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
80	OHX	AR	3488	-	0,6,6	-	-	-		
80	OHX	A	2155	-	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
86	5XU	s3	302	86	-	0/0/1/2	-
86	5XU	c0	202	86	-	0/0/2/2	-
86	5XU	c0	203	86	-	0/0/2/2	-
84	VDU	AR	4255	-	-	0/8/60/60	0/3/3/3
83	SPD	AR	4200	-	-	4/7/7/7	-
83	SPD	1	4106	-	-	3/7/7/7	-
84	VDU	1	4195	-	-	0/8/60/60	0/3/3/3
86	5XU	c0	201	86	-	0/0/2/2	-
86	5XU	s3	301	86	-	0/0/2/2	-

There are no bond length outliers.

All (6) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
84	1	4195	VDU	C1-C10-C5	-4.36	111.80	116.78
84	AR	4255	VDU	C1-C10-C5	-4.36	111.81	116.78
86	s3	301	5XU	CB-CA-N	-2.33	102.48	109.85
83	AR	4200	SPD	C8-C7-N6	-2.15	106.33	112.14
84	AR	4255	VDU	C9-C8-C7	2.08	113.69	110.84
84	1	4195	VDU	C9-C8-C7	2.04	113.63	110.84

There are no chirality outliers.

All (7) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
83	AR	4200	SPD	N6-C7-C8-C9
83	1	4106	SPD	N6-C7-C8-C9
83	AR	4200	SPD	C8-C7-N6-C5
83	1	4106	SPD	C3-C4-C5-N6
83	1	4106	SPD	C8-C7-N6-C5
83	AR	4200	SPD	C2-C3-C4-C5
83	AR	4200	SPD	C7-C8-C9-N10

There are no ring outliers.

563 monomers are involved in 814 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3434	OHX	1	0
80	1	3426	OHX	1	0
80	AR	3510	OHX	1	0
80	sR	2011	OHX	1	0
80	sR	2001	OHX	1	0
80	sR	1905	OHX	1	0
80	sR	1989	OHX	1	0
80	sR	2028	OHX	2	0
80	sR	1902	OHX	1	0
80	1	3485	OHX	1	0
80	1	4171	OHX	1	0
80	1	3407	OHX	1	0
80	1	4149	OHX	1	0
80	AR	3550	OHX	1	0
80	sR	2015	OHX	1	0
80	1	4128	OHX	1	0
80	l	403	OHX	2	0
80	AR	3614	OHX	1	0
80	AR	3544	OHX	1	0
80	1	3487	OHX	1	0
80	1	3520[A]	OHX	1	0
80	AR	3421	OHX	1	0
80	AR	3517	OHX	1	0
80	sR	1926	OHX	1	0
80	1	3402	OHX	1	0
80	1	3602	OHX	1	0
80	AR	3556	OHX	1	0
80	A	1959	OHX	1	0
80	AR	3591	OHX	1	0
80	sR	1978	OHX	1	0
80	sR	1906	OHX	1	0
80	1	3504	OHX	1	0
80	AR	3435	OHX	1	0
80	sR	1908	OHX	1	0
80	1	4139	OHX	1	0
80	sR	1954	OHX	3	0
80	1	3565	OHX	1	0
80	AR	3450	OHX	1	0
80	AR	3699	OHX	1	0
80	4	201	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	sR	1990	OHX	2	0
80	sR	1903	OHX	3	0
80	1	3422	OHX	1	0
80	AR	3518	OHX	1	0
80	1	3506	OHX	1	0
80	A	1946	OHX	2	0
80	1	4146	OHX	3	0
80	3	223	OHX	1	0
80	A	1933	OHX	1	0
80	sR	1910	OHX	2	0
80	sR	2023	OHX	3	0
80	c5	201	OHX	2	0
80	AR	3613	OHX	1	0
80	1	4156	OHX	5	0
80	AR	3668	OHX	2	0
80	A	1967	OHX	2	0
80	A	2123	OHX	2	0
80	sR	1964	OHX	3	0
80	AR	3593	OHX	2	0
80	AR	3690	OHX	1	0
80	1	4166	OHX	3	0
80	A	1937	OHX	1	0
80	A	2146	OHX	1	0
80	AR	3650	OHX	1	0
80	AR	3404	OHX	1	0
80	A	2124	OHX	1	0
80	AR	3540	OHX	1	0
80	AR	3470	OHX	2	0
80	1	4132	OHX	4	0
80	1	4151	OHX	1	0
80	AR	3669	OHX	1	0
80	sR	1922	OHX	2	0
80	1	4159	OHX	2	0
80	AR	3439	OHX	1	0
80	CG	303	OHX	2	0
80	1	3508	OHX	1	0
80	AR	3463	OHX	3	0
80	1	4138	OHX	1	0
80	A	1922	OHX	2	0
80	sR	1923	OHX	1	0
80	1	3440	OHX	2	0
80	1	3622	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	h	401	OHX	2	0
80	sR	1976	OHX	1	0
80	AR	3623	OHX	1	0
80	1	3640	OHX	2	0
80	sR	1994	OHX	1	0
80	AR	3417	OHX	1	0
80	AR	3527	OHX	1	0
80	A	1975	OHX	1	0
80	A	2130	OHX	1	0
80	1	4163	OHX	2	0
80	1	3451	OHX	1	0
80	4	215	OHX	1	0
80	4	236	OHX	1	0
80	sR	1936	OHX	1	0
80	1	4147	OHX	2	0
80	CE	401	OHX	2	0
80	AR	3570	OHX	1	0
80	AR	3457	OHX	1	0
80	sR	1975	OHX	4	0
80	AR	3427	OHX	2	0
80	AR	3602	OHX	1	0
80	sR	1929	OHX	1	0
80	1	3499	OHX	2	0
80	1	3625	OHX	1	0
80	AR	3579	OHX	2	0
80	AR	3509	OHX	1	0
80	sR	1935	OHX	1	0
80	AR	3426	OHX	3	0
80	AR	3584	OHX	2	0
80	AR	3600	OHX	1	0
80	1	3411	OHX	1	0
80	A	1906	OHX	2	0
80	1	4148	OHX	1	0
80	AR	3549	OHX	1	0
80	AR	3438	OHX	2	0
83	AR	4200	SPD	3	0
80	sR	2185	OHX	3	0
80	1	3447	OHX	1	0
80	A	2118	OHX	1	0
80	1	4155	OHX	1	0
80	1	3631	OHX	3	0
80	A	1907	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3531	OHX	1	0
80	A	2143	OHX	1	0
80	k	403	OHX	4	0
80	1	4125	OHX	3	0
80	sR	1997	OHX	3	0
80	AR	3590	OHX	1	0
80	1	3476	OHX	1	0
80	AR	4232	OHX	1	0
80	1	3630	OHX	1	0
80	s8	302	OHX	1	0
80	sR	1927	OHX	1	0
80	1	4150	OHX	2	0
80	A	2151	OHX	3	0
80	AR	4231	OHX	1	0
80	sR	1988	OHX	2	0
80	sR	1950	OHX	1	0
80	A	2145	OHX	1	0
80	AR	3660	OHX	2	0
80	AR	3682	OHX	1	0
80	AR	3537	OHX	1	0
80	AR	4225	OHX	1	0
80	AR	3643	OHX	1	0
80	AR	3473	OHX	2	0
80	1	4127	OHX	2	0
80	AR	3441	OHX	1	0
80	sR	1959	OHX	2	0
80	AR	3640	OHX	2	0
80	1	4109	OHX	1	0
80	A	1961	OHX	2	0
80	A	1971	OHX	1	0
80	1	3490	OHX	1	0
80	sR	2006	OHX	1	0
80	1	4122	OHX	1	0
80	1	3431	OHX	1	0
80	1	3542	OHX	1	0
80	1	3619	OHX	1	0
80	1	4141	OHX	3	0
80	1	4123	OHX	1	0
80	1	4182	OHX	1	0
80	AR	3437	OHX	1	0
80	CK	202	OHX	1	0
80	A	2141	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3505	OHX	1	0
80	sR	2178	OHX	1	0
80	A	2147	OHX	1	0
80	1	3502	OHX	2	0
80	1	3501	OHX	1	0
80	1	3617	OHX	1	0
80	sR	1979	OHX	1	0
80	s1	301	OHX	1	0
80	AS	204	OHX	2	0
80	A	2119	OHX	1	0
80	AR	3562	OHX	2	0
80	A	1978	OHX	1	0
80	1	3580	OHX	1	0
80	A	1976	OHX	1	0
80	1	4167	OHX	1	0
80	sR	1931	OHX	2	0
80	sR	1918	OHX	2	0
80	AR	3692	OHX	2	0
80	CL	301	OHX	2	0
80	AR	3606	OHX	1	0
80	1	3454	OHX	3	0
80	1	4161	OHX	1	0
80	A	1973	OHX	2	0
80	DL	102	OHX	1	0
80	AR	3532	OHX	1	0
80	1	3404	OHX	5	0
80	AR	4224	OHX	2	0
80	e	102	OHX	1	0
80	1	3418	OHX	1	0
80	sR	1912	OHX	1	0
80	AR	3533	OHX	1	0
80	AR	3597	OHX	1	0
80	1	3494	OHX	1	0
80	AR	3507	OHX	1	0
80	A	2136	OHX	2	0
80	AR	3666	OHX	1	0
80	A	1927	OHX	1	0
80	1	4158	OHX	4	0
80	AR	3676	OHX	2	0
80	A	2133	OHX	2	0
80	AR	3443	OHX	1	0
80	1	3541	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3637	OHX	1	0
80	sR	1998	OHX	1	0
80	1	3612	OHX	1	0
80	1	3488	OHX	1	0
80	A	1956	OHX	1	0
80	AR	3408	OHX	5	0
80	AR	3678	OHX	1	0
80	AT	209	OHX	2	0
80	AR	3552	OHX	1	0
80	AR	3696	OHX	1	0
80	AR	4227	OHX	2	0
80	AR	3700[B]	OHX	1	0
80	AR	3583	OHX	3	0
80	AR	4237	OHX	1	0
80	DQ	203	OHX	3	0
80	1	3444	OHX	1	0
80	AR	3418	OHX	2	0
80	sR	2016	OHX	1	0
80	AR	3608	OHX	1	0
80	AR	3477	OHX	1	0
80	1	4177	OHX	2	0
80	sR	1980	OHX	2	0
80	1	4169	OHX	1	0
80	AR	3415	OHX	1	0
80	AR	4235	OHX	1	0
80	1	3604	OHX	1	0
80	1	3467	OHX	1	0
80	A	1939	OHX	1	0
80	AR	3559	OHX	1	0
80	AR	3628	OHX	1	0
80	AR	3652	OHX	4	0
80	1	3616	OHX	1	0
80	AR	3520	OHX	2	0
80	A	2144	OHX	2	0
80	AR	3528	OHX	1	0
80	J	301	OHX	2	0
80	AT	203	OHX	1	0
80	1	3429	OHX	2	0
80	A	1972	OHX	1	0
80	AR	3432	OHX	1	0
80	AR	3475	OHX	1	0
80	AT	208	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3695	OHX	1	0
80	AR	3513[B]	OHX	1	0
80	1	3513	OHX	1	0
80	1	3473	OHX	1	0
80	AR	3541	OHX	1	0
80	sR	2004	OHX	1	0
80	1	4180	OHX	3	0
80	CP	302	OHX	1	0
80	1	3605	OHX	1	0
80	1	4174	OHX	1	0
80	1	3629	OHX	1	0
80	1	3437	OHX	1	0
80	AR	3651	OHX	1	0
80	4	213	OHX	1	0
80	AR	3474	OHX	1	0
80	AR	3673	OHX	2	0
80	AR	3487	OHX	1	0
80	AR	3424	OHX	1	0
80	A	1910	OHX	2	0
80	sR	1924	OHX	1	0
80	1	3537	OHX	1	0
80	sR	1991	OHX	2	0
80	1	4130	OHX	3	0
80	AR	3538	OHX	1	0
80	AR	3476	OHX	1	0
80	AR	3607	OHX	3	0
80	1	3408	OHX	2	0
80	AR	3568	OHX	1	0
80	A	2149	OHX	3	0
80	AR	3555	OHX	1	0
80	1	3419	OHX	1	0
80	A	2152	OHX	1	0
80	1	3510	OHX	1	0
80	AR	3571	OHX	1	0
80	AR	3620	OHX	1	0
80	A	2131	OHX	1	0
80	sR	1917	OHX	1	0
80	AR	3508	OHX	1	0
80	1	3533	OHX	1	0
80	AR	3664	OHX	1	0
80	AT	211	OHX	2	0
80	A	1942	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	1	3633	OHX	1	0
80	1	3576	OHX	1	0
80	1	3563	OHX	2	0
80	1	4154	OHX	1	0
86	c0	201	5XU	1	0
80	AR	4234	OHX	3	0
80	1	3538	OHX	1	0
80	1	3434	OHX	1	0
80	sR	1938	OHX	1	0
80	1	3553	OHX	1	0
80	1	3615	OHX	1	0
80	A	2153	OHX	1	0
80	4	210	OHX	2	0
80	AR	3468	OHX	1	0
80	AR	3536	OHX	1	0
80	sR	2024	OHX	2	0
80	AR	3522	OHX	1	0
80	1	3458	OHX	1	0
80	AP	502	OHX	3	0
80	AR	3672	OHX	2	0
80	AR	3402	OHX	1	0
80	A	2117	OHX	2	0
80	1	3492	OHX	1	0
80	3	204	OHX	1	0
80	sR	2032	OHX	2	0
80	1	3486	OHX	1	0
80	AR	3420	OHX	2	0
80	1	3425	OHX	1	0
80	1	3524	OHX	1	0
80	1	4129	OHX	3	0
80	sR	1933	OHX	1	0
80	1	3446	OHX	1	0
80	AR	3410	OHX	2	0
80	A	2129	OHX	1	0
80	AR	3616	OHX	1	0
80	1	3477	OHX	4	0
80	1	3414	OHX	1	0
80	1	3530	OHX	1	0
80	AR	3521	OHX	1	0
80	sR	1920	OHX	1	0
80	AR	3454	OHX	1	0
80	1	3433	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	1	3572	OHX	1	0
80	1	4152	OHX	1	0
80	AR	3406	OHX	3	0
80	sR	1916[B]	OHX	1	0
80	AR	3433	OHX	1	0
80	1	3412	OHX	1	0
80	AG	201	OHX	1	0
80	sR	1957	OHX	4	0
80	sR	1930	OHX	3	0
80	AR	3466	OHX	2	0
80	1	4134	OHX	2	0
80	AR	3446	OHX	1	0
80	A	1980	OHX	1	0
80	1	4153	OHX	1	0
80	AR	3542	OHX	3	0
80	Q	201	OHX	1	0
80	AR	3553	OHX	2	0
80	1	4165	OHX	2	0
80	A	2115	OHX	1	0
80	sR	1951	OHX	1	0
80	sR	1907	OHX	1	0
80	1	3500	OHX	1	0
80	1	3593	OHX	1	0
80	3	221	OHX	1	0
80	AR	3403	OHX	2	0
80	A	1908	OHX	2	0
80	AR	3534	OHX	1	0
80	1	4126	OHX	1	0
80	AR	3419	OHX	1	0
80	1	4135	OHX	1	0
80	AR	3501	OHX	3	0
80	k	402	OHX	1	0
80	1	3556	OHX	1	0
80	1	3582	OHX	1	0
80	sR	1992	OHX	1	0
80	sR	1909	OHX	1	0
83	1	4106	SPD	3	0
80	AR	3452	OHX	1	0
80	1	4144	OHX	2	0
80	1	3600	OHX	2	0
80	A	2125	OHX	1	0
80	n	201	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3447	OHX	3	0
80	1	3450	OHX	1	0
80	AR	3414	OHX	2	0
80	AR	3525	OHX	1	0
80	A	2128	OHX	1	0
80	1	4164	OHX	2	0
80	A	2121	OHX	2	0
80	A	2134	OHX	4	0
80	AR	3401	OHX	4	0
80	sR	2012	OHX	1	0
80	sR	1969	OHX	2	0
80	AR	3548	OHX	1	0
80	CS	202	OHX	2	0
80	sR	1915	OHX	1	0
80	A	1970	OHX	1	0
80	AR	3551	OHX	1	0
80	AC	102	OHX	2	0
80	AR	3587	OHX	1	0
80	1	4172	OHX	1	0
80	AR	3701	OHX	1	0
80	sR	1967	OHX	1	0
80	A	2127	OHX	2	0
80	1	3512	OHX	1	0
80	1	3562	OHX	2	0
80	AR	3455	OHX	3	0
80	1	3445	OHX	1	0
80	A	1901	OHX	1	0
80	AR	4229	OHX	2	0
80	sR	1958	OHX	3	0
80	AR	3445	OHX	1	0
80	sR	1955	OHX	1	0
80	AR	3409	OHX	1	0
80	AR	3489	OHX	2	0
80	1	3420	OHX	2	0
80	A	1979	OHX	2	0
80	1	3410	OHX	2	0
80	AT	215	OHX	1	0
80	AR	3465	OHX	1	0
80	1	4108	OHX	1	0
80	AR	4213	OHX	1	0
80	sR	1984	OHX	2	0
80	1	4143	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	DK	201	OHX	1	0
80	4	203	OHX	2	0
80	AR	3412	OHX	1	0
80	AR	3645	OHX	1	0
80	A	1923	OHX	1	0
80	1	3539	OHX	1	0
80	Rb	401	OHX	2	0
80	sR	2034	OHX	1	0
80	1	3456	OHX	1	0
80	sR	1965	OHX	2	0
80	AR	3456	OHX	1	0
80	AR	3691	OHX	1	0
80	1	4170	OHX	3	0
80	DD	101	OHX	2	0
80	1	3498	OHX	1	0
80	AR	3436	OHX	1	0
80	1	4124	OHX	1	0
80	A	2137	OHX	1	0
80	A	2159[A]	OHX	2	0
80	3	222	OHX	2	0
80	A	1950	OHX	1	0
80	A	1974	OHX	2	0
80	1	3469	OHX	1	0
80	AR	3499	OHX	1	0
80	A	2114	OHX	3	0
80	O	201	OHX	2	0
80	1	3624	OHX	2	0
80	A	2116	OHX	2	0
80	AR	3453	OHX	2	0
80	AR	3658	OHX	1	0
80	1	3550	OHX	1	0
80	1	3627	OHX	1	0
80	AR	4233	OHX	3	0
80	sR	2002	OHX	1	0
80	AR	3464	OHX	1	0
80	AR	3504	OHX	4	0
80	CL	302	OHX	1	0
80	sR	2010	OHX	2	0
80	sR	1949	OHX	2	0
80	3	201	OHX	1	0
80	A	1916	OHX	1	0
80	1	3519	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	1	3505	OHX	1	0
80	1	4181	OHX	2	0
80	sR	2017	OHX	1	0
80	4	207	OHX	1	0
80	1	3503	OHX	1	0
80	1	3479	OHX	1	0
80	A	2156	OHX	1	0
80	AR	3684	OHX	1	0
80	1	4142	OHX	2	0
80	A	2135	OHX	2	0
80	1	3621	OHX	1	0
80	AR	3526	OHX	1	0
80	sR	1937	OHX	1	0
80	1	3566	OHX	1	0
80	A	2122	OHX	2	0
80	AT	207	OHX	1	0
80	sR	2176	OHX	1	0
80	1	3466	OHX	1	0
80	AR	3496	OHX	2	0
80	sR	2188	OHX	3	0
80	DH	202	OHX	1	0
80	1	3509	OHX	1	0
80	sR	1913	OHX	3	0
80	1	3555	OHX	1	0
80	AR	4226	OHX	1	0
80	1	4160	OHX	1	0
80	4	206	OHX	1	0
80	AR	3565	OHX	1	0
80	sR	1977	OHX	1	0
80	1	3493	OHX	2	0
80	A	1918	OHX	1	0
80	AR	3484	OHX	1	0
80	z	204	OHX	1	0
80	AR	3516	OHX	2	0
80	A	1969	OHX	1	0
80	AR	3486	OHX	1	0
80	1	3401	OHX	1	0
80	1	3415	OHX	1	0
80	x	209	OHX	2	0
80	AR	3416	OHX	1	0
80	T	201	OHX	1	0
80	1	3637	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3428	OHX	2	0
80	AR	3490	OHX	2	0
80	sR	1940	OHX	2	0
80	A	1912	OHX	1	0
80	AR	3598	OHX	1	0
84	1	4195	VDU	1	0
80	4	238	OHX	1	0
80	1	3614	OHX	1	0
80	sR	1972	OHX	1	0
80	1	4131	OHX	2	0
80	1	4137	OHX	2	0
80	A	2142	OHX	3	0
80	v	301	OHX	1	0
80	AR	3479	OHX	2	0
80	AR	3429	OHX	1	0
80	1	3560	OHX	1	0
80	A	1951	OHX	1	0
80	A	1947	OHX	1	0
80	1	3517	OHX	1	0
80	1	3564	OHX	1	0
80	AR	3577	OHX	2	0
80	sR	2020	OHX	1	0
80	AR	3557	OHX	1	0
80	AR	3605	OHX	3	0
80	4	237	OHX	2	0
80	AR	3523	OHX	1	0
80	AR	3554	OHX	1	0
80	S	201	OHX	1	0
80	sR	1928	OHX	1	0
80	AR	3627	OHX	3	0
80	sR	1946	OHX	2	0
80	3	220	OHX	1	0
80	sR	2007	OHX	1	0
84	AR	4255	VDU	2	0
80	1	4179	OHX	1	0
80	1	4178	OHX	1	0
80	A	2132	OHX	1	0
80	AR	3622	OHX	1	0
80	AR	3497	OHX	1	0
80	A	1944	OHX	1	0
80	AR	3649	OHX	1	0
80	sR	1996	OHX	1	0

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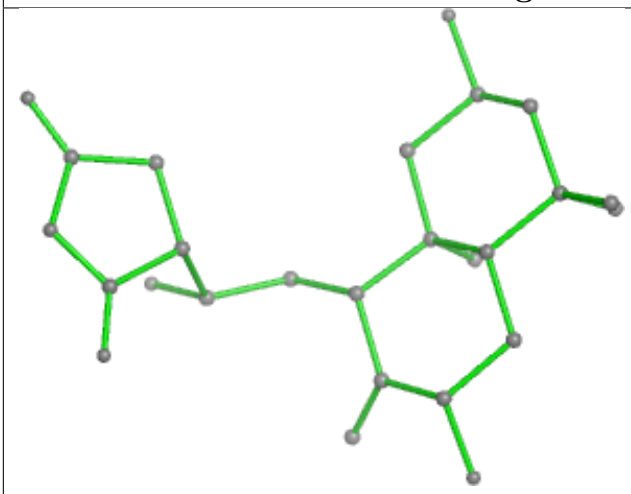
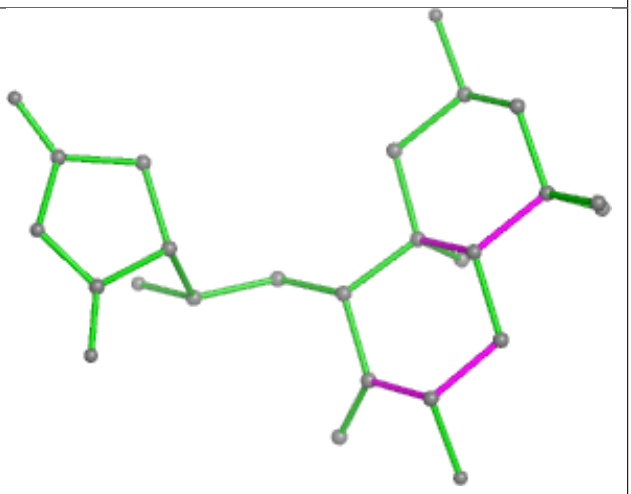
Mol	Chain	Res	Type	Clashes	Symm-Clashes
80	AR	3411	OHX	2	0
80	1	3436	OHX	1	0
80	1	3403	OHX	1	0
80	sR	2184	OHX	2	0
80	sR	1960	OHX	1	0
80	A	2138	OHX	1	0
80	AR	3449	OHX	2	0
80	AR	3458	OHX	2	0
80	AR	3407	OHX	2	0
80	1	3596	OHX	1	0
80	AR	3641	OHX	1	0
80	AS	202	OHX	1	0
80	sR	1932	OHX	1	0
80	1	3438	OHX	1	0
80	AR	3580	OHX	1	0
80	AR	3405	OHX	1	0
80	AR	3634	OHX	1	0
80	AR	3700[A]	OHX	1	0
80	AR	3442	OHX	1	0

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

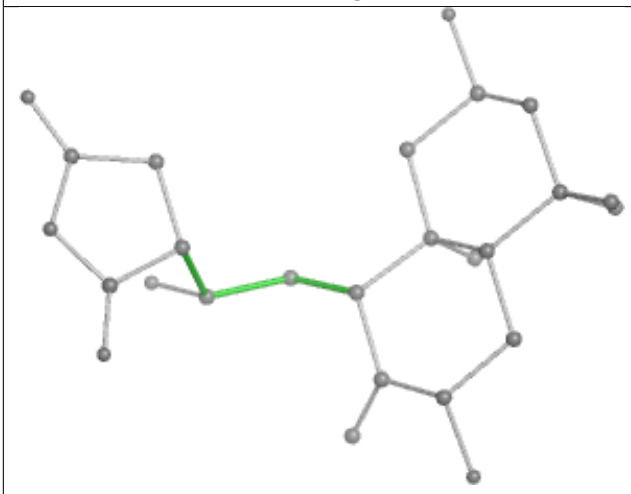
Ligand VDU 1 4195



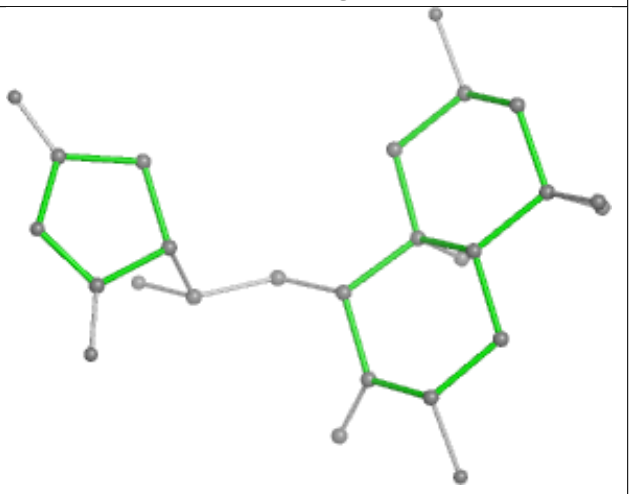
Bond lengths



Bond angles

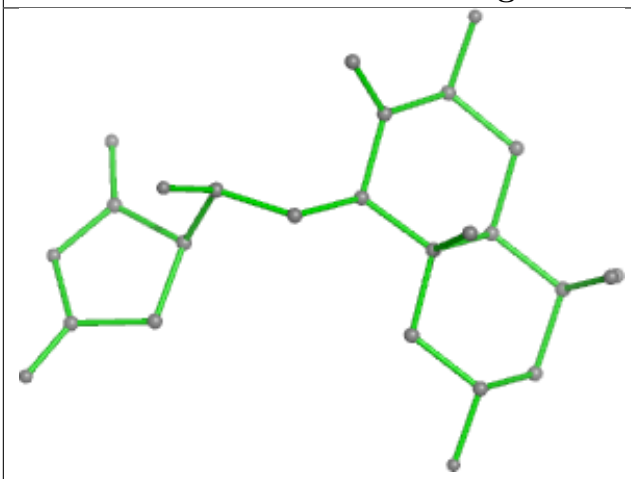


Torsions

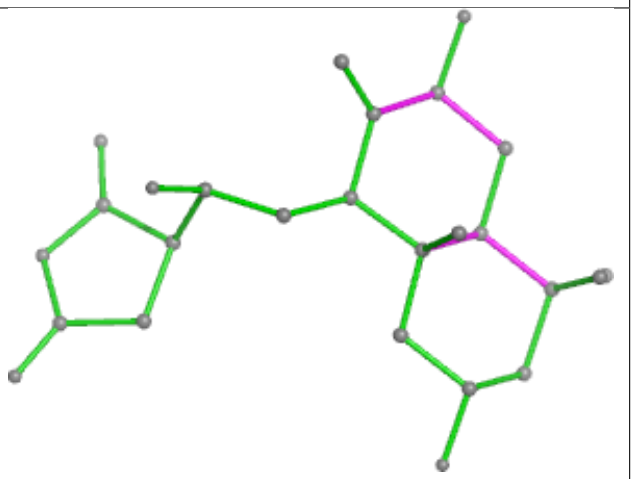


Rings

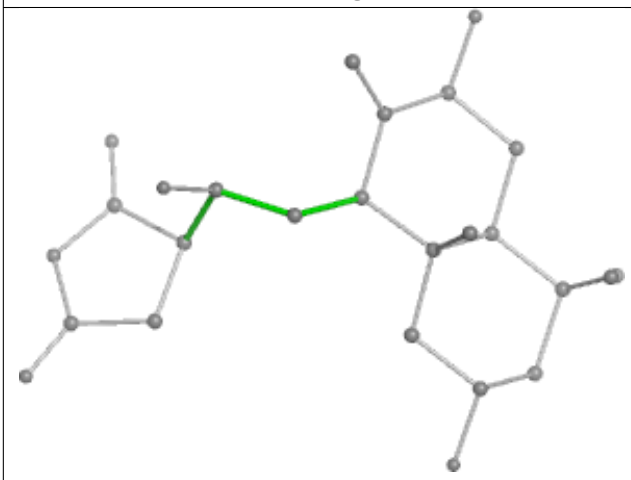
Ligand VDU AR 4255



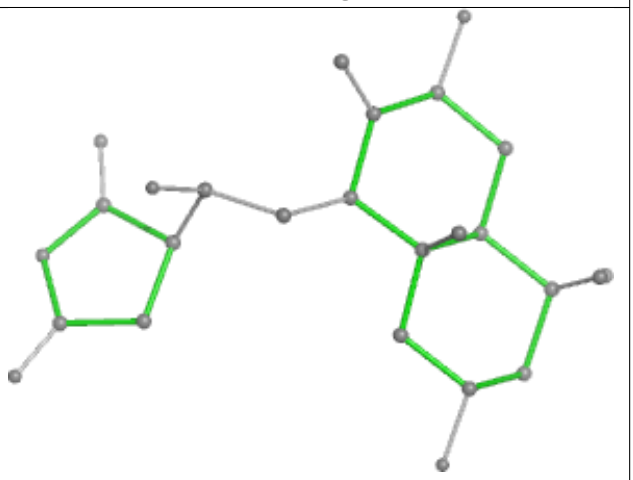
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled '#RSRZ> 2' contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95^{th} 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	A	1735/1800 (96%)	0.55	49 (2%) 55 49	61, 98, 201, 267	0
1	sR	1783/1800 (99%)	0.36	30 (1%) 69 63	52, 88, 204, 270	0
2	B	206/252 (81%)	1.42	50 (24%) 2 2	87, 122, 161, 176	0
2	s0	206/252 (81%)	1.16	35 (16%) 5 4	74, 108, 141, 180	0
3	C	214/255 (83%)	1.58	64 (29%) 1 1	84, 141, 177, 209	0
3	s1	216/255 (84%)	0.80	14 (6%) 26 22	63, 99, 132, 179	0
4	D	217/254 (85%)	1.28	46 (21%) 3 3	69, 103, 138, 180	0
4	s2	217/254 (85%)	0.76	20 (9%) 16 14	60, 88, 130, 162	0
5	E	223/240 (92%)	1.53	67 (30%) 1 1	74, 108, 146, 186	0
5	s3	223/240 (92%)	1.14	33 (14%) 7 6	80, 122, 161, 195	0
6	F	260/261 (99%)	1.54	76 (29%) 1 2	73, 104, 139, 161	0
6	s4	260/261 (99%)	0.69	19 (7%) 22 19	57, 85, 120, 175	0
7	G	200/225 (88%)	1.10	29 (14%) 7 6	79, 132, 166, 189	0
7	s5	199/225 (88%)	1.70	62 (31%) 1 1	83, 124, 161, 178	0
8	H	226/236 (95%)	1.39	59 (26%) 2 2	73, 112, 153, 172	0
8	s6	218/236 (92%)	1.02	29 (13%) 8 7	56, 92, 139, 168	0
9	I	184/190 (96%)	1.09	27 (14%) 7 6	80, 127, 170, 189	0
9	s7	186/190 (97%)	1.22	36 (19%) 4 3	72, 120, 170, 187	0
10	J	188/200 (94%)	0.98	25 (13%) 8 7	61, 90, 134, 163	0
10	s8	188/200 (94%)	1.36	40 (21%) 3 3	58, 86, 136, 184	0
11	K	179/197 (90%)	1.57	51 (28%) 1 2	82, 112, 149, 164	0
11	s9	185/197 (93%)	1.20	35 (18%) 4 3	59, 90, 140, 176	0
12	L	96/105 (91%)	1.66	30 (31%) 1 1	78, 119, 163, 179	0
12	c0	84/105 (80%)	1.17	18 (21%) 3 3	99, 137, 166, 179	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	M	143/156 (91%)	1.09	26 (18%) 4 4	60, 85, 133, 176	0
13	c1	146/156 (93%)	1.74	47 (32%) 1 1	56, 79, 151, 172	0
14	O	150/151 (99%)	1.10	24 (16%) 6 5	66, 103, 138, 151	0
14	c3	150/151 (99%)	1.03	16 (10%) 12 11	60, 91, 125, 165	0
15	P	127/138 (92%)	1.90	45 (35%) 1 1	78, 136, 171, 194	0
15	c4	128/138 (92%)	1.15	22 (17%) 5 4	61, 101, 137, 172	0
16	Q	117/142 (82%)	1.43	25 (21%) 3 3	77, 102, 159, 192	0
16	c5	127/142 (89%)	1.74	50 (39%) 1 1	83, 120, 168, 182	0
17	R	141/143 (98%)	1.50	38 (26%) 2 2	81, 119, 145, 177	0
17	c6	142/143 (99%)	1.86	58 (40%) 1 1	77, 111, 155, 176	0
18	S	115/136 (84%)	1.36	27 (23%) 2 2	78, 124, 179, 194	0
18	c7	117/136 (86%)	1.15	14 (11%) 10 9	82, 112, 160, 193	0
19	T	145/146 (99%)	0.71	13 (8%) 17 14	66, 117, 162, 200	0
19	c8	145/146 (99%)	1.15	27 (18%) 4 3	77, 110, 157, 178	0
20	U	143/144 (99%)	1.03	23 (16%) 5 5	90, 116, 153, 165	0
20	c9	143/144 (99%)	1.02	17 (11%) 10 9	69, 105, 133, 171	0
21	V	107/121 (88%)	2.12	51 (47%) 0 0	78, 121, 170, 192	0
21	d0	100/121 (82%)	1.80	38 (38%) 1 1	75, 125, 173, 186	0
22	W	87/87 (100%)	1.21	16 (18%) 4 4	83, 115, 147, 171	0
22	d1	87/87 (100%)	0.77	10 (11%) 11 9	68, 96, 127, 159	0
23	X	129/130 (99%)	1.61	42 (32%) 1 1	73, 98, 122, 141	0
23	d2	129/130 (99%)	0.83	9 (6%) 24 20	57, 78, 100, 119	0
24	Y	144/145 (99%)	1.43	40 (27%) 2 2	64, 87, 111, 144	0
24	d3	144/145 (99%)	0.86	13 (9%) 17 14	52, 71, 97, 142	0
25	Z	134/135 (99%)	1.20	25 (18%) 4 3	76, 116, 160, 192	0
25	d4	134/135 (99%)	0.80	13 (9%) 15 12	64, 94, 135, 165	0
26	AA	135/136 (99%)	0.98	13 (9%) 15 13	76, 105, 140, 170	0
26	DB	135/136 (99%)	0.98	20 (14%) 7 6	85, 111, 147, 171	0
27	9	126/127 (99%)	0.23	3 (2%) 59 53	49, 72, 103, 146	0
27	DA	124/127 (97%)	1.09	21 (16%) 5 4	53, 77, 103, 148	0
28	AB	148/149 (99%)	0.91	19 (12%) 9 7	44, 64, 94, 119	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	DC	148/149 (99%)	0.97	18 (12%) 10 8	43, 67, 100, 142	0
29	AC	58/59 (98%)	1.74	22 (37%) 1 1	48, 77, 142, 150	0
29	DD	58/59 (98%)	1.61	17 (29%) 1 1	49, 71, 107, 141	0
30	AD	97/105 (92%)	0.85	11 (11%) 11 10	73, 100, 131, 154	0
30	DE	97/105 (92%)	0.98	15 (15%) 6 5	64, 101, 141, 181	0
31	CD	252/254 (99%)	1.16	35 (13%) 7 6	45, 72, 101, 168	0
31	j	252/254 (99%)	1.02	30 (11%) 10 9	46, 68, 95, 141	0
32	AE	109/113 (96%)	1.27	18 (16%) 5 5	58, 83, 144, 178	0
32	DF	109/113 (96%)	1.05	17 (15%) 6 5	49, 70, 135, 167	0
33	CE	386/387 (99%)	0.62	28 (7%) 22 19	43, 59, 86, 127	0
33	k	386/387 (99%)	0.80	33 (8%) 18 15	47, 73, 105, 168	0
34	AF	127/130 (97%)	0.66	10 (7%) 20 17	46, 58, 82, 146	0
34	DG	127/130 (97%)	0.74	10 (7%) 20 17	44, 62, 89, 134	0
35	1	3134/3396 (92%)	0.25	37 (1%) 76 71	45, 68, 174, 261	0
35	AR	3147/3396 (92%)	0.19	45 (1%) 73 68	43, 66, 161, 267	0
36	3	121/121 (100%)	0.17	1 (0%) 82 78	51, 82, 105, 144	0
36	AS	121/121 (100%)	0.05	0 100 100	48, 69, 83, 133	0
37	4	158/158 (100%)	0.02	1 (0%) 85 82	52, 69, 130, 210	0
37	AT	158/158 (100%)	0.25	3 (1%) 66 60	54, 76, 151, 210	0
38	CF	361/362 (99%)	0.62	24 (6%) 26 22	43, 69, 99, 136	0
38	l	361/362 (99%)	0.53	25 (6%) 24 20	44, 64, 99, 123	0
39	CG	296/297 (99%)	0.78	32 (10%) 12 11	52, 74, 124, 185	0
39	m	296/297 (99%)	0.81	28 (9%) 15 13	59, 91, 140, 180	0
40	CH	156/176 (88%)	0.40	8 (5%) 34 29	48, 70, 111, 143	0
40	n	156/176 (88%)	0.41	5 (3%) 50 44	52, 67, 106, 146	0
41	CI	222/244 (90%)	0.66	10 (4%) 39 32	46, 59, 101, 180	0
41	o	222/244 (90%)	0.59	11 (4%) 35 30	49, 63, 102, 172	0
42	CJ	233/256 (91%)	1.01	34 (14%) 7 6	76, 106, 151, 173	0
42	p	233/256 (91%)	1.11	34 (14%) 7 6	59, 92, 142, 186	0
43	CK	191/191 (100%)	0.43	11 (5%) 30 26	49, 67, 100, 180	0
43	q	191/191 (100%)	1.06	25 (13%) 8 7	57, 83, 120, 184	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	CL	211/221 (95%)	0.49	14 (6%) 26 22	46, 69, 115, 159	0
44	r	211/221 (95%)	0.80	24 (11%) 11 10	49, 74, 124, 162	0
45	CM	169/174 (97%)	0.78	13 (7%) 21 18	54, 78, 112, 135	0
45	s	169/174 (97%)	1.04	22 (13%) 9 7	66, 95, 128, 182	0
46	CN	193/199 (96%)	1.04	28 (14%) 7 6	45, 81, 138, 163	0
46	t	193/199 (96%)	0.76	17 (8%) 17 15	47, 74, 123, 166	0
47	CO	136/138 (98%)	0.70	16 (11%) 10 9	50, 64, 99, 141	0
47	u	136/138 (98%)	0.82	13 (9%) 15 13	54, 73, 103, 176	0
48	CP	203/204 (99%)	0.91	15 (7%) 22 19	48, 75, 95, 117	0
48	v	203/204 (99%)	1.02	19 (9%) 15 13	44, 66, 85, 102	0
49	CQ	197/199 (98%)	0.77	21 (10%) 12 11	44, 54, 97, 156	0
49	w	197/199 (98%)	0.82	19 (9%) 15 13	48, 62, 90, 145	0
50	CR	155/184 (84%)	0.48	5 (3%) 50 44	44, 60, 80, 147	0
50	x	176/184 (95%)	0.61	9 (5%) 34 29	46, 65, 110, 170	0
51	CS	185/186 (99%)	0.98	26 (14%) 7 6	46, 67, 93, 107	0
51	y	185/186 (99%)	0.68	14 (7%) 21 18	48, 63, 84, 97	0
52	CT	184/189 (97%)	0.97	25 (13%) 8 7	53, 82, 142, 163	0
52	z	183/189 (96%)	0.83	16 (8%) 17 15	61, 85, 144, 167	0
53	0	172/172 (100%)	0.93	23 (13%) 8 7	52, 69, 101, 165	0
53	CU	172/172 (100%)	0.61	6 (3%) 47 41	47, 60, 91, 133	0
54	2	159/160 (99%)	1.05	25 (15%) 6 5	49, 72, 117, 164	0
54	CV	159/160 (99%)	0.88	15 (9%) 15 13	47, 64, 120, 183	0
55	5	100/121 (82%)	0.78	6 (6%) 29 24	92, 119, 154, 171	0
55	CW	100/121 (82%)	1.11	15 (15%) 6 6	79, 109, 156, 167	0
56	6	136/137 (99%)	1.16	20 (14%) 7 6	51, 73, 107, 146	0
56	CX	136/137 (99%)	0.74	9 (6%) 26 22	45, 59, 89, 155	0
57	7	67/155 (43%)	1.24	14 (20%) 3 3	54, 76, 131, 166	0
57	CY	113/155 (72%)	1.28	28 (24%) 2 2	52, 82, 129, 151	0
58	8	121/142 (85%)	0.99	19 (15%) 6 5	53, 81, 120, 154	0
58	CZ	118/142 (83%)	1.47	33 (27%) 2 2	56, 86, 116, 137	0
59	AG	105/107 (98%)	0.64	9 (8%) 18 15	48, 60, 79, 105	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
59	DH	106/107 (99%)	0.64	5 (4%) 37 31	45, 57, 94, 132	0
60	AH	112/121 (92%)	1.34	23 (20%) 3 3	48, 85, 126, 164	0
60	DI	112/121 (92%)	1.22	22 (19%) 4 3	58, 87, 144, 170	0
61	AI	119/120 (99%)	0.68	7 (5%) 29 25	50, 80, 107, 126	0
61	DJ	119/120 (99%)	1.22	18 (15%) 6 5	68, 88, 117, 138	0
62	AJ	99/100 (99%)	0.90	13 (13%) 8 7	59, 83, 136, 166	0
62	DK	97/100 (97%)	0.96	13 (13%) 8 7	67, 95, 137, 152	0
63	AK	87/88 (98%)	0.87	11 (12%) 9 8	48, 62, 95, 147	0
63	DL	86/88 (97%)	0.97	11 (12%) 9 7	45, 67, 106, 144	0
64	AL	77/78 (98%)	1.05	10 (12%) 9 7	79, 108, 144, 160	0
64	DM	77/78 (98%)	1.02	12 (15%) 6 5	84, 107, 151, 177	0
65	AM	50/51 (98%)	1.23	9 (18%) 4 4	52, 70, 90, 109	0
65	DN	50/51 (98%)	1.51	13 (26%) 2 2	57, 72, 97, 115	0
66	AN	52/128 (40%)	0.70	6 (11%) 11 9	53, 75, 104, 138	0
66	DO	52/128 (40%)	0.49	3 (5%) 30 26	47, 58, 82, 132	0
67	AO	25/25 (100%)	1.77	12 (48%) 0 0	63, 78, 92, 102	0
67	DP	25/25 (100%)	1.73	9 (36%) 1 1	56, 68, 92, 113	0
68	AP	105/106 (99%)	0.74	12 (11%) 11 10	47, 71, 108, 157	0
68	DQ	105/106 (99%)	0.50	4 (3%) 44 38	46, 68, 111, 148	0
69	AQ	91/92 (98%)	0.99	10 (10%) 12 10	52, 76, 105, 140	0
69	DR	91/92 (98%)	1.05	12 (13%) 8 7	52, 75, 108, 129	0
70	i	126/273 (46%)	0.97	15 (11%) 10 9	67, 108, 154, 182	0
70	sM	63/273 (23%)	1.56	23 (36%) 1 1	56, 122, 164, 187	0
71	p0	123/312 (39%)	1.50	36 (29%) 1 1	86, 128, 156, 167	0
72	a	70/108 (64%)	0.78	8 (11%) 11 10	110, 148, 180, 193	0
72	d5	69/108 (63%)	1.54	18 (26%) 2 2	102, 137, 165, 189	0
73	b	93/119 (78%)	2.24	48 (51%) 0 0	81, 109, 168, 185	0
73	d6	97/119 (81%)	1.47	30 (30%) 1 1	57, 84, 134, 157	0
74	c	81/82 (98%)	0.81	10 (12%) 9 8	85, 117, 160, 184	0
74	d7	81/82 (98%)	0.71	6 (7%) 22 19	62, 102, 161, 203	0
75	d	63/67 (94%)	1.39	14 (22%) 3 2	101, 148, 173, 181	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å^2)	Q<0.9
75	d8	63/67 (94%)	2.27	37 (58%)	0 0	99, 140, 171, 191	0
76	d9	53/56 (94%)	1.88	21 (39%)	1 1	79, 100, 151, 185	0
76	e	53/56 (94%)	2.15	27 (50%)	0 0	72, 95, 132, 168	0
77	e0	62/63 (98%)	0.96	8 (12%)	9 7	61, 100, 154, 190	0
77	f	60/63 (95%)	1.13	13 (21%)	3 3	69, 115, 164, 187	0
78	e1	39/152 (25%)	1.36	6 (15%)	6 5	143, 172, 205, 217	0
78	g	71/152 (46%)	1.86	27 (38%)	1 1	94, 148, 182, 211	0
79	Rb	318/319 (99%)	1.18	61 (19%)	4 3	92, 136, 169, 197	0
79	h	312/319 (97%)	1.12	56 (17%)	4 4	90, 128, 169, 187	0
All	All	32476/35284 (92%)	0.80	3584 (11%)	12 10	43, 84, 156, 270	0

All (3584) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
31	CD	253	GLN	10.4
31	CD	246	LEU	9.3
54	CV	86	GLU	8.9
13	c1	4	GLU	8.6
49	CQ	182	ASN	8.3
49	CQ	3	VAL	8.3
31	CD	252	THR	8.2
17	c6	140	LYS	8.0
5	s3	176	LEU	7.7
31	j	253	GLN	7.7
31	CD	250	GLN	7.6
49	CQ	183	ALA	7.5
72	d5	50	ILE	7.5
24	Y	3	LYS	7.4
51	CS	145	ASN	7.4
44	r	112	GLN	7.2
10	J	21	PHE	7.1
13	M	2	SER	7.1
5	s3	180	GLY	7.1
13	c1	2	SER	7.0
8	s6	88	ARG	7.0
46	CN	46	ILE	6.9
8	H	80	ASN	6.9
73	b	83	ILE	6.8
16	Q	101	ALA	6.8

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Mol	Chain	Res	Type	RSRZ
21	d0	118	VAL	6.8
4	D	86	VAL	6.6
53	CU	2	ALA	6.5
53	CU	1	MET	6.5
61	DJ	84	LYS	6.4
29	AC	25	LYS	6.3
15	c4	125	SER	6.3
73	b	84	VAL	6.3
49	CQ	184	THR	6.3
17	R	132	LYS	6.2
35	AR	1103	A	6.2
53	0	1	MET	6.2
13	c1	3	THR	6.2
29	DD	22	LYS	6.2
44	r	114	GLY	6.1
31	CD	251	LYS	6.1
7	G	36	ALA	6.1
52	z	72	GLU	6.1
73	b	86	VAL	6.1
9	s7	111	LYS	6.1
13	c1	144	ALA	6.1
60	DI	2	ALA	6.0
49	w	3	VAL	6.0
31	CD	247	ARG	6.0
73	b	85	ARG	5.9
35	AR	2873	U	5.9
47	CO	129	TYR	5.9
3	C	114	VAL	5.9
8	H	79	LYS	5.9
12	L	40	LEU	5.9
14	O	9	LYS	5.8
67	DP	11	ARG	5.8
76	e	12	ARG	5.8
5	s3	175	VAL	5.8
12	L	44	LYS	5.8
79	Rb	121	MET	5.8
3	C	140	ILE	5.8
5	s3	142	LEU	5.8
12	c0	25	LYS	5.8
78	g	88	PRO	5.7
49	w	48	PHE	5.7
79	h	43	ILE	5.7

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Mol	Chain	Res	Type	RSRZ
5	E	148	LYS	5.7
21	V	31	VAL	5.7
73	b	10	ARG	5.6
17	c6	121	SER	5.6
31	CD	248	GLY	5.6
42	p	28	HIS	5.6
16	c5	136	SER	5.6
29	AC	26	THR	5.6
28	AB	47	LYS	5.6
11	s9	148	VAL	5.6
5	s3	139	SER	5.6
61	AI	91	ALA	5.5
35	1	2874	G	5.5
17	c6	132	LYS	5.5
21	d0	82	TYR	5.5
60	AH	20	ILE	5.5
4	D	90	THR	5.5
79	h	79	TYR	5.5
8	s6	80	ASN	5.5
11	K	5	PRO	5.5
1	A	194	U	5.5
3	C	142	PHE	5.5
75	d8	13	ILE	5.5
54	2	86	GLU	5.4
29	DD	27	TYR	5.4
29	DD	25	LYS	5.4
1	A	676	G	5.4
17	c6	117	LEU	5.4
8	H	155	ASP	5.4
8	s6	147	LEU	5.4
78	g	87	THR	5.4
11	K	2	PRO	5.4
17	c6	142	TYR	5.3
21	V	84	MET	5.3
6	F	194	THR	5.3
13	c1	29	LYS	5.3
31	CD	190	ARG	5.3
56	6	2	SER	5.3
13	c1	5	LEU	5.3
43	q	178	GLY	5.3
25	Z	35	VAL	5.3
6	F	25	GLY	5.3

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Mol	Chain	Res	Type	RSRZ
12	L	60	SER	5.3
6	F	142	HIS	5.3
10	s8	62	THR	5.3
15	P	89	THR	5.3
4	D	164	SER	5.2
60	DI	16	ARG	5.2
28	AB	116	GLY	5.2
73	b	19	LYS	5.2
47	u	9	ALA	5.2
71	p0	87	VAL	5.2
12	L	30	ALA	5.2
15	P	119	THR	5.2
9	s7	123	ASP	5.1
75	d8	66	LEU	5.1
7	s5	187	ILE	5.1
58	CZ	27	ARG	5.1
11	s9	118	LEU	5.1
21	V	80	GLU	5.1
58	CZ	142	ILE	5.1
56	6	32	ARG	5.1
24	Y	42	PRO	5.1
65	AM	43	ASN	5.0
42	CJ	151	VAL	5.0
4	D	84	LYS	5.0
17	R	118	ILE	5.0
10	s8	52	ASN	5.0
10	s8	61	GLU	5.0
9	s7	109	VAL	5.0
10	s8	45	SER	5.0
14	c3	140	LYS	5.0
46	t	46	ILE	5.0
1	A	677	G	5.0
7	s5	79	ASN	5.0
21	V	81	THR	5.0
31	j	252	THR	5.0
55	CW	14	THR	5.0
8	s6	216	LEU	5.0
10	s8	46	VAL	5.0
75	d8	16	LEU	5.0
77	e0	49	LEU	5.0
13	c1	143	SER	5.0
78	g	106	TYR	5.0

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Mol	Chain	Res	Type	RSRZ
75	d8	26	THR	5.0
71	p0	50	VAL	5.0
46	CN	150	PRO	5.0
3	C	156	ALA	4.9
42	CJ	196	ALA	4.9
67	DP	25	LYS	4.9
8	H	222	GLU	4.9
60	DI	101	VAL	4.9
42	CJ	198	ALA	4.9
6	F	133	LYS	4.9
3	s1	110	LEU	4.9
39	CG	3	PHE	4.9
7	s5	33	VAL	4.9
58	CZ	26	VAL	4.8
7	G	71	ALA	4.8
78	g	84	VAL	4.8
15	P	37	GLU	4.8
64	DM	18	ALA	4.8
26	AA	46	ILE	4.8
66	DO	77	ILE	4.8
77	f	2	ALA	4.8
58	CZ	32	PHE	4.8
14	O	109	LYS	4.8
8	s6	89	ASP	4.7
43	q	88	TYR	4.7
35	AR	2874	G	4.7
5	s3	152	PHE	4.7
60	AH	61	GLN	4.7
76	e	43	PHE	4.7
16	Q	53	PRO	4.7
14	O	13	SER	4.7
52	z	2	ALA	4.7
56	CX	76	ALA	4.7
48	CP	78	GLY	4.7
72	d5	73	GLY	4.7
21	V	82	TYR	4.7
2	B	162	CYS	4.7
4	s2	92	ALA	4.7
13	c1	146	ALA	4.7
31	CD	249	SER	4.7
4	D	162	CYS	4.6
15	P	71	CYS	4.6

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Mol	Chain	Res	Type	RSRZ
6	F	187	ARG	4.6
72	d5	76	ALA	4.6
55	CW	108	TYR	4.6
35	AR	2404	A	4.6
11	s9	2	PRO	4.6
3	C	218	LEU	4.6
8	H	68	LEU	4.6
21	V	26	LEU	4.6
32	AE	62	ARG	4.6
10	s8	179	CYS	4.6
49	CQ	187	GLU	4.6
65	DN	50	ASN	4.6
75	d8	43	ASN	4.6
7	s5	26	ALA	4.6
52	z	54	ALA	4.6
18	c7	97	ASN	4.6
52	z	52	LYS	4.6
76	e	6	VAL	4.6
11	s9	5	PRO	4.5
15	P	118	VAL	4.5
21	d0	97	VAL	4.5
63	AK	10	LYS	4.5
61	DJ	2	ALA	4.5
8	s6	162	VAL	4.5
71	p0	88	PHE	4.5
4	D	155	ALA	4.5
58	8	30	ALA	4.5
21	d0	117	VAL	4.5
55	CW	54	VAL	4.5
33	k	14	LEU	4.5
31	j	228	GLY	4.5
16	Q	30	THR	4.5
23	X	29	PRO	4.5
38	l	194	TYR	4.5
8	H	164	LYS	4.5
11	K	92	LYS	4.5
73	d6	13	LYS	4.5
53	0	2	ALA	4.5
41	o	163	LEU	4.5
60	AH	16	ARG	4.5
8	H	93	LYS	4.5
31	j	251	LYS	4.5

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Mol	Chain	Res	Type	RSRZ
61	DJ	120	ALA	4.4
22	d1	11	LEU	4.4
5	s3	117	ARG	4.4
6	s4	18	TRP	4.4
16	Q	52	LYS	4.4
15	P	86	THR	4.4
58	CZ	37	THR	4.4
73	b	35	ALA	4.4
26	DB	75	VAL	4.4
18	S	2	GLY	4.4
70	sM	52	PRO	4.4
44	r	113	GLN	4.4
78	g	86	THR	4.4
5	s3	177	MET	4.4
18	c7	65	PRO	4.4
69	AQ	11	THR	4.4
29	AC	27	TYR	4.4
25	d4	50	ALA	4.4
60	AH	2	ALA	4.4
17	c6	4	VAL	4.4
15	P	127	ARG	4.4
78	g	83	LYS	4.4
4	D	144	TRP	4.4
78	g	105	TYR	4.3
3	s1	54	LEU	4.3
79	h	81	LEU	4.3
29	AC	22	LYS	4.3
79	h	102	ARG	4.3
21	d0	78	THR	4.3
6	F	2	ALA	4.3
12	c0	64	TYR	4.3
53	0	4	PHE	4.3
23	X	2	THR	4.3
21	d0	100	VAL	4.3
32	AE	57	GLN	4.3
7	s5	217	LEU	4.3
45	s	153	LYS	4.3
72	d5	75	LEU	4.3
79	h	136	ILE	4.3
6	F	78	THR	4.3
19	T	22	VAL	4.3
73	b	75	VAL	4.3

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Mol	Chain	Res	Type	RSRZ
13	c1	50	GLU	4.3
10	s8	50	GLY	4.3
55	CW	15	PHE	4.3
4	D	88	LYS	4.3
24	Y	48	HIS	4.3
28	AB	78	LEU	4.3
43	q	146	LEU	4.3
5	s3	145	ALA	4.3
76	d9	40	ARG	4.3
17	c6	115	THR	4.3
71	p0	278	ASP	4.2
29	AC	3	LYS	4.2
41	CI	158	LYS	4.2
17	c6	44	LEU	4.2
41	CI	163	LEU	4.2
50	x	182	ILE	4.2
60	DI	33	GLN	4.2
17	R	20	ALA	4.2
75	d	44	VAL	4.2
2	B	166	GLY	4.2
76	d9	43	PHE	4.2
3	C	164	ILE	4.2
73	b	41	ILE	4.2
65	DN	46	ARG	4.2
17	R	49	TYR	4.2
76	d9	17	GLY	4.2
2	B	134	LYS	4.2
13	c1	32	LYS	4.2
77	f	3	LYS	4.2
12	c0	27	PHE	4.2
17	R	65	ILE	4.2
18	c7	38	ILE	4.2
34	AF	26	HIS	4.2
2	B	158	VAL	4.2
5	E	48	VAL	4.2
56	CX	2	SER	4.2
78	g	150	VAL	4.2
11	K	95	TYR	4.2
24	Y	129	GLY	4.2
24	d3	44	GLY	4.2
25	Z	34	ASN	4.2
29	DD	59	LYS	4.2

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Mol	Chain	Res	Type	RSRZ
61	DJ	119	LYS	4.2
18	S	24	LEU	4.2
74	c	7	LEU	4.2
10	s8	60	ILE	4.2
11	s9	101	VAL	4.2
9	s7	66	SER	4.2
39	CG	9	SER	4.2
15	P	93	THR	4.1
4	D	85	PRO	4.1
24	d3	27	ASN	4.1
5	E	29	LEU	4.1
35	1	1103	A	4.1
69	AQ	92	ALA	4.1
24	d3	24	TRP	4.1
76	d9	7	TRP	4.1
49	CQ	192	LYS	4.1
60	AH	21	LYS	4.1
28	DC	78	LEU	4.1
72	d5	71	ILE	4.1
2	s0	73	VAL	4.1
5	E	41	VAL	4.1
46	CN	63	VAL	4.1
58	8	23	ALA	4.1
14	c3	94	LYS	4.1
76	e	54	LYS	4.1
5	s3	140	GLY	4.1
17	c6	28	LEU	4.1
65	AM	46	ARG	4.1
44	r	218	ALA	4.1
31	j	250	GLN	4.1
3	C	113	MET	4.1
2	B	146	LEU	4.1
4	s2	154	LEU	4.1
8	H	78	THR	4.1
6	F	204	GLY	4.1
24	Y	103	LEU	4.1
46	t	77	LEU	4.1
47	u	10	SER	4.1
49	w	44	SER	4.1
12	L	27	PHE	4.1
23	X	110	ILE	4.1
20	U	61	VAL	4.1

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Mol	Chain	Res	Type	RSRZ
3	C	60	ALA	4.1
5	E	185	LYS	4.1
39	m	6	ASP	4.1
21	d0	34	LEU	4.0
39	m	92	LEU	4.0
24	Y	44	GLY	4.0
5	E	25	PHE	4.0
5	E	27	ARG	4.0
7	s5	68	ILE	4.0
38	l	74	ILE	4.0
56	6	53	SER	4.0
9	I	142	TYR	4.0
6	F	8	HIS	4.0
12	L	24	LYS	4.0
13	c1	46	LYS	4.0
49	CQ	185	ALA	4.0
15	P	124	ASP	4.0
21	V	92	ASP	4.0
35	1	2873	U	4.0
30	AD	14	LEU	4.0
14	O	59	GLY	4.0
31	j	13	GLY	4.0
51	CS	99	THR	4.0
53	0	130	GLU	4.0
9	s7	148	LYS	4.0
31	j	230	VAL	4.0
75	d8	15	VAL	4.0
42	CJ	256	ALA	4.0
52	CT	2	ALA	4.0
47	CO	126	GLN	4.0
15	P	39	ILE	4.0
79	Rb	97	GLY	4.0
15	P	91	THR	4.0
29	DD	26	THR	4.0
43	q	2	LYS	4.0
73	b	13	LYS	4.0
78	g	85	TYR	4.0
57	CY	112	ASN	4.0
17	R	117	LEU	4.0
65	DN	51	ILE	4.0
71	p0	184	GLY	4.0
73	b	50	VAL	4.0

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Mol	Chain	Res	Type	RSRZ
31	j	229	ALA	4.0
58	8	24	LEU	4.0
59	AG	7	LEU	4.0
11	s9	6	ARG	4.0
75	d8	65	ARG	4.0
5	s3	151	LYS	3.9
21	V	83	GLU	3.9
2	s0	19	ALA	3.9
29	AC	2	ALA	3.9
60	DI	34	HIS	3.9
79	h	36	ALA	3.9
29	AC	4	SER	3.9
29	AC	29	TYR	3.9
65	DN	43	ASN	3.9
73	d6	10	ARG	3.9
25	Z	135	ASP	3.9
1	A	1285	U	3.9
5	E	39	VAL	3.9
58	CZ	40	LEU	3.9
8	H	156	PHE	3.9
52	CT	130	ASN	3.9
21	V	64	LYS	3.9
22	W	67	ASP	3.9
15	P	126	THR	3.9
20	c9	37	VAL	3.9
7	s5	61	TYR	3.9
17	R	141	SER	3.9
17	c6	5	PRO	3.9
28	DC	48	TYR	3.9
47	u	129	TYR	3.9
76	d9	18	SER	3.9
79	h	211	ILE	3.9
8	s6	149	LYS	3.9
52	z	70	LYS	3.9
29	DD	34	GLY	3.9
54	CV	126	VAL	3.9
38	l	60	THR	3.9
30	AD	51	LEU	3.9
64	DM	69	LEU	3.9
30	DE	23	TYR	3.9
29	AC	23	LYS	3.9
45	CM	153	LYS	3.9

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Mol	Chain	Res	Type	RSRZ
52	CT	59	SER	3.9
15	P	79	VAL	3.8
18	S	9	VAL	3.8
25	d4	27	VAL	3.8
44	r	190	VAL	3.8
53	0	128	GLU	3.8
1	A	1657	U	3.8
52	z	85	ARG	3.8
41	o	141	TYR	3.8
71	p0	274	SER	3.8
21	V	118	VAL	3.8
22	d1	39	VAL	3.8
9	s7	127	GLU	3.8
19	T	17	LEU	3.8
22	W	69	LEU	3.8
50	CR	2	ALA	3.8
31	j	218	HIS	3.8
6	F	244	ILE	3.8
11	K	180	LYS	3.8
18	S	14	LYS	3.8
24	d3	110	LYS	3.8
26	AA	68	ILE	3.8
46	CN	5	LYS	3.8
57	CY	27	LYS	3.8
4	D	215	PHE	3.8
51	y	155	MET	3.8
5	E	30	ALA	3.8
17	R	119	ALA	3.8
50	x	184	ALA	3.8
7	s5	81	ARG	3.8
3	C	219	LYS	3.8
21	V	91	ILE	3.8
51	y	57	ILE	3.8
44	r	11	TYR	3.8
6	F	127	LYS	3.8
7	s5	148	ARG	3.8
56	CX	45	ARG	3.8
62	DK	15	LYS	3.8
31	CD	186	PHE	3.8
1	A	1625	C	3.8
3	s1	217	LEU	3.8
18	c7	35	CYS	3.8

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Mol	Chain	Res	Type	RSRZ
19	c8	3	LEU	3.8
34	AF	126	LEU	3.8
31	CD	14	SER	3.8
7	s5	92	ARG	3.7
15	P	92	LYS	3.7
31	j	12	ALA	3.7
44	r	219	ALA	3.7
52	CT	159	ALA	3.7
58	8	45	LYS	3.7
14	c3	138	ASN	3.7
34	DG	38	ILE	3.7
79	Rb	103	PHE	3.7
7	s5	145	ASP	3.7
33	CE	245	GLY	3.7
76	e	20	GLN	3.7
42	CJ	189	LEU	3.7
62	AJ	11	LEU	3.7
76	e	23	VAL	3.7
62	AJ	75	LYS	3.7
17	c6	114	ARG	3.7
44	r	195	ALA	3.7
79	h	80	ALA	3.7
51	y	74	GLU	3.7
58	CZ	101	GLU	3.7
5	E	43	PRO	3.7
6	F	223	ASN	3.7
24	Y	27	ASN	3.7
28	DC	57	GLY	3.7
73	b	14	GLY	3.7
5	E	179	GLN	3.7
8	H	153	VAL	3.7
8	H	220	LYS	3.7
61	DJ	115	LYS	3.7
5	s3	150	MET	3.7
10	J	147	ALA	3.7
73	b	74	CYS	3.7
57	7	63	ILE	3.7
22	W	64	GLU	3.7
35	1	2971	A	3.7
13	c1	78	THR	3.7
3	s1	207	LEU	3.7
16	Q	104	GLN	3.7

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Mol	Chain	Res	Type	RSRZ
52	CT	85	ARG	3.7
15	c4	60	ALA	3.7
21	d0	95	ALA	3.7
43	q	144	ILE	3.7
57	CY	118	ALA	3.7
73	b	44	ILE	3.7
43	q	11	GLU	3.7
46	CN	61	PRO	3.7
57	CY	114	GLU	3.7
56	6	42	SER	3.7
71	p0	73	PHE	3.7
13	M	3	THR	3.7
21	d0	107	THR	3.7
31	j	25	GLY	3.7
33	CE	178	LEU	3.7
56	6	49	LEU	3.7
46	CN	149	GLN	3.7
54	2	126	VAL	3.7
71	p0	27	VAL	3.7
50	x	126	ARG	3.7
76	e	56	ARG	3.7
16	c5	83	MET	3.7
21	V	20	ILE	3.7
79	h	162	ALA	3.7
9	I	24	PHE	3.6
10	s8	21	PHE	3.6
17	c6	60	PHE	3.6
17	c6	141	SER	3.6
18	S	112	SER	3.6
38	l	232	SER	3.6
14	O	61	THR	3.6
21	V	107	THR	3.6
24	d3	89	ASN	3.6
8	s6	68	LEU	3.6
16	c5	26	LEU	3.6
45	CM	12	LEU	3.6
6	F	58	GLY	3.6
21	V	77	LYS	3.6
41	o	158	LYS	3.6
42	p	182	GLY	3.6
75	d8	14	LYS	3.6
1	A	1425	A	3.6

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Mol	Chain	Res	Type	RSRZ
54	2	124	VAL	3.6
21	V	85	ARG	3.6
73	b	6	ALA	3.6
8	H	91	GLU	3.6
3	C	61	LEU	3.6
5	E	142	LEU	3.6
70	i	85	SER	3.6
13	c1	43	LYS	3.6
48	v	179	LYS	3.6
60	DI	21	LYS	3.6
15	P	113	GLY	3.6
39	m	273	ARG	3.6
33	k	22	ALA	3.6
42	CJ	102	ALA	3.6
73	b	81	ALA	3.6
8	s6	79	LYS	3.6
45	s	17	LEU	3.6
77	e0	36	LYS	3.6
41	CI	164	SER	3.6
12	L	28	ASN	3.6
21	d0	31	VAL	3.6
25	Z	70	VAL	3.6
74	c	2	VAL	3.6
6	F	162	ILE	3.6
12	L	41	TYR	3.6
17	c6	24	ALA	3.6
65	DN	2	ALA	3.6
54	2	19	PHE	3.6
70	sM	54	PRO	3.6
1	A	320	U	3.6
8	H	212	LEU	3.6
79	h	42	LEU	3.6
8	H	154	ARG	3.6
16	Q	126	VAL	3.6
60	DI	81	CYS	3.6
30	DE	92	ILE	3.6
65	AM	4	GLN	3.6
47	CO	9	ALA	3.6
13	c1	35	TYR	3.6
71	p0	18	TYR	3.6
71	p0	86	PHE	3.6
6	F	128	LYS	3.6

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Mol	Chain	Res	Type	RSRZ
11	K	36	LEU	3.6
21	d0	77	LYS	3.6
16	Q	23	GLU	3.5
27	DA	111	LEU	3.6
73	b	90	GLU	3.5
38	l	99	MET	3.5
20	U	114	VAL	3.5
25	Z	132	ARG	3.5
69	AQ	71	VAL	3.5
44	CL	209	ASN	3.5
17	c6	138	PHE	3.5
13	c1	24	LYS	3.5
14	O	128	TYR	3.5
25	d4	26	ASP	3.5
28	DC	46	ASP	3.5
32	AE	69	TYR	3.5
42	p	158	ASP	3.5
43	q	177	ASP	3.5
5	E	86	LEU	3.5
8	H	216	LEU	3.5
19	c8	17	LEU	3.5
38	l	311	HIS	3.5
66	AN	89	TYR	3.5
74	d7	24	LEU	3.5
79	h	32	LEU	3.5
35	AR	2093	A	3.5
15	P	90	ARG	3.5
23	X	3	ARG	3.5
23	X	74	VAL	3.5
39	CG	125	VAL	3.5
48	CP	73	ARG	3.5
6	F	217	THR	3.5
19	c8	14	ILE	3.5
62	DK	63	ASN	3.5
44	r	221	ALA	3.5
59	DH	91	ALA	3.5
10	s8	65	PHE	3.5
15	P	23	PHE	3.5
52	CT	21	LYS	3.5
73	b	12	LYS	3.5
78	g	94	LYS	3.5
15	P	32	ASP	3.5

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Mol	Chain	Res	Type	RSRZ
17	c6	143	ARG	3.5
5	E	16	VAL	3.5
20	c9	112	GLY	3.5
28	DC	56	VAL	3.5
55	CW	56	VAL	3.5
16	c5	134	THR	3.5
21	d0	22	ILE	3.5
1	sR	260	U	3.5
35	1	2205	U	3.5
14	c3	62	GLN	3.5
20	U	58	ALA	3.5
23	X	4	SER	3.5
31	j	28	LYS	3.5
33	CE	363	SER	3.5
75	d	45	LYS	3.5
78	g	146	SER	3.5
24	Y	10	ASN	3.5
6	F	23	LEU	3.5
32	DF	89	LEU	3.5
55	5	89	LEU	3.5
79	h	73	LEU	3.5
48	CP	81	TYR	3.5
4	s2	208	GLU	3.5
47	CO	107	GLU	3.5
33	k	4	ARG	3.5
6	F	196	VAL	3.5
25	d4	35	VAL	3.5
75	d8	24	GLY	3.5
3	C	121	ILE	3.5
11	K	143	ILE	3.5
72	d5	46	LYS	3.5
2	B	7	PHE	3.5
2	B	35	PRO	3.5
7	G	74	ALA	3.5
25	Z	134	ALA	3.5
18	c7	96	SER	3.5
19	T	32	LEU	3.5
53	0	168	PRO	3.5
79	Rb	32	LEU	3.5
16	c5	80	MET	3.5
38	CF	311	HIS	3.5
60	AH	34	HIS	3.5

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Mol	Chain	Res	Type	RSRZ
11	K	12	TYR	3.5
11	K	108	ARG	3.5
11	s9	8	TYR	3.5
58	CZ	51	VAL	3.4
60	AH	35	VAL	3.4
14	O	11	ILE	3.4
24	Y	110	LYS	3.4
38	CF	104	LYS	3.4
29	AC	24	PRO	3.4
34	AF	2	ALA	3.4
42	p	196	ALA	3.4
49	w	52	LEU	3.4
6	F	57	ASN	3.4
64	AL	55	VAL	3.4
29	DD	3	LYS	3.4
6	F	12	LEU	3.4
16	c5	25	LEU	3.4
39	m	131	LEU	3.4
23	X	39	GLN	3.4
24	Y	113	ALA	3.4
44	CL	220	GLN	3.4
65	DN	3	ALA	3.4
21	d0	62	VAL	3.4
2	s0	173	ILE	3.4
9	I	145	GLY	3.4
60	AH	77	GLY	3.4
51	y	161	LYS	3.4
76	e	46	LYS	3.4
79	Rb	137	LYS	3.4
34	DG	128	LEU	3.4
42	CJ	152	LEU	3.4
21	d0	67	THR	3.4
68	AP	36	PHE	3.4
12	L	47	GLN	3.4
12	L	62	GLN	3.4
69	AQ	25	GLN	3.4
23	X	117	ARG	3.4
79	Rb	59	ARG	3.4
60	AH	66	SER	3.4
17	c6	36	ILE	3.4
21	V	117	VAL	3.4
21	d0	114	VAL	3.4

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Mol	Chain	Res	Type	RSRZ
79	h	115	ILE	3.4
1	A	1193	A	3.4
3	C	116	LYS	3.4
21	d0	64	LYS	3.4
31	j	201	GLY	3.4
51	y	156	GLY	3.4
57	CY	84	GLY	3.4
70	sM	84	LYS	3.4
2	s0	57	LEU	3.4
3	C	110	LEU	3.4
8	s6	184	LEU	3.4
19	c8	116	LEU	3.4
6	F	184	THR	3.4
29	DD	24	PRO	3.4
42	CJ	113	ALA	3.4
57	CY	43	ARG	3.4
4	D	178	ILE	3.4
8	H	223	LYS	3.4
17	R	12	LYS	3.4
17	R	29	ILE	3.4
23	d2	30	SER	3.4
32	AE	61	LYS	3.4
49	w	100	GLU	3.4
38	CF	233	LEU	3.3
13	M	115	PHE	3.3
71	p0	197	PHE	3.3
15	P	106	ALA	3.3
20	U	107	ALA	3.3
49	CQ	191	ALA	3.3
45	s	155	THR	3.3
10	J	22	ARG	3.3
58	8	51	VAL	3.3
58	CZ	36	LYS	3.3
73	d6	44	ILE	3.3
75	d8	45	LYS	3.3
77	f	36	LYS	3.3
11	s9	106	GLU	3.3
12	L	39	ASN	3.3
38	CF	345	GLU	3.3
76	d9	29	GLY	3.3
60	DI	47	CYS	3.3
5	E	144	ALA	3.3

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Mol	Chain	Res	Type	RSRZ
16	Q	54	ALA	3.3
43	q	13	PRO	3.3
35	AR	2971	A	3.3
46	t	78	ALA	3.3
69	AQ	51	ALA	3.3
16	c5	50	THR	3.3
17	c6	66	ARG	3.3
42	CJ	110	THR	3.3
47	CO	3	THR	3.3
17	c6	139	GLN	3.3
70	i	89	ARG	3.3
75	d8	18	ARG	3.3
5	E	141	LYS	3.3
15	P	129	LYS	3.3
61	DJ	83	LYS	3.3
7	G	70	VAL	3.3
6	F	4	GLY	3.3
16	c5	113	GLY	3.3
39	CG	91	GLY	3.3
62	DK	78	GLY	3.3
5	E	21	LEU	3.3
11	K	60	LEU	3.3
78	e1	104	SER	3.3
5	E	18	TYR	3.3
4	D	224	PHE	3.3
6	F	26	CYS	3.3
44	CL	217	PHE	3.3
49	w	80	PHE	3.3
64	AL	43	PHE	3.3
3	C	139	ALA	3.3
3	C	141	ALA	3.3
79	h	78	ALA	3.3
5	E	76	ARG	3.3
51	CS	178	ARG	3.3
48	v	183	THR	3.3
53	0	162	THR	3.3
71	p0	186	THR	3.3
21	V	69	LYS	3.3
37	AT	79	A	3.3
60	AH	19	LYS	3.3
2	s0	195	TRP	3.3
21	V	86	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
53	0	123	ILE	3.3
42	CJ	197	VAL	3.3
4	D	163	GLY	3.3
17	R	88	GLY	3.3
12	c0	84	GLU	3.3
12	c0	81	ASN	3.3
35	AR	2506	U	3.3
16	c5	56	PHE	3.3
29	DD	29	TYR	3.3
42	p	66	SER	3.3
45	s	167	TYR	3.3
46	CN	4	SER	3.3
51	CS	153	PHE	3.3
52	z	78	TYR	3.3
65	DN	37	TYR	3.3
79	Rb	82	SER	3.3
5	s3	147	ALA	3.3
9	s7	68	ALA	3.3
10	s8	100	ALA	3.3
47	CO	138	ALA	3.3
61	DJ	82	ALA	3.3
63	DL	83	ALA	3.3
75	d8	67	ARG	3.3
6	s4	134	LYS	3.3
48	CP	176	LYS	3.3
71	p0	14	LYS	3.3
21	d0	29	THR	3.3
27	DA	45	ILE	3.3
30	DE	10	ILE	3.3
31	j	225	ILE	3.3
42	p	67	ILE	3.3
11	s9	147	MET	3.3
16	Q	28	MET	3.3
7	s5	165	LEU	3.3
51	CS	138	LEU	3.3
49	CQ	100	GLU	3.3
52	z	86	GLU	3.3
10	s8	27	PHE	3.2
5	E	87	TYR	3.2
14	c3	128	TYR	3.2
30	DE	59	TYR	3.2
4	D	97	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
6	F	3	ARG	3.2
58	8	50	ALA	3.2
65	DN	45	ARG	3.2
17	R	95	LYS	3.2
33	CE	5	LYS	3.2
3	C	161	ILE	3.2
21	V	19	ILE	3.2
79	Rb	168	THR	3.2
3	C	120	LEU	3.2
40	n	145	LEU	3.2
28	DC	116	GLY	3.2
38	l	190	GLY	3.2
12	L	59	PHE	3.2
13	c1	129	ARG	3.2
16	c5	137	ARG	3.2
39	CG	273	ARG	3.2
73	b	98	PRO	3.2
1	A	193	U	3.2
10	J	26	LYS	3.2
13	c1	26	LYS	3.2
24	Y	28	ASN	3.2
27	DA	116	LYS	3.2
33	CE	6	TYR	3.2
51	CS	175	ALA	3.2
73	d6	11	ASN	3.2
63	DL	84	SER	3.2
79	Rb	120	SER	3.2
10	J	179	CYS	3.2
19	T	35	ILE	3.2
76	d9	31	ILE	3.2
5	s3	181	VAL	3.2
7	G	38	THR	3.2
16	c5	89	MET	3.2
17	c6	98	ASP	3.2
56	6	137	VAL	3.2
5	s3	182	LEU	3.2
8	H	77	LEU	3.2
15	P	137	LEU	3.2
41	o	83	LEU	3.2
43	q	161	LEU	3.2
72	a	69	LEU	3.2
78	g	103	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
10	J	177	GLY	3.2
17	c6	11	GLY	3.2
5	E	38	GLU	3.2
17	c6	87	LYS	3.2
28	DC	77	LYS	3.2
72	d5	70	LYS	3.2
65	AM	2	ALA	3.2
4	s2	197	TYR	3.2
17	c6	49	TYR	3.2
46	CN	6	ASN	3.2
72	d5	41	ILE	3.2
11	s9	48	GLN	3.2
15	P	42	VAL	3.2
16	c5	15	HIS	3.2
31	j	62	VAL	3.2
44	r	102	MET	3.2
21	V	29	THR	3.2
25	d4	18	LEU	3.2
64	AL	78	LEU	3.2
6	F	143	ASP	3.2
24	Y	115	GLY	3.2
31	CD	2	GLY	3.2
43	q	45	PHE	3.2
2	B	97	PRO	3.2
42	p	44	ARG	3.2
56	6	45	ARG	3.2
69	DR	3	LYS	3.2
15	P	63	ALA	3.2
6	F	64	ILE	3.2
13	M	37	ASN	3.2
17	R	92	TYR	3.2
42	CJ	36	ILE	3.2
61	AI	75	TYR	3.2
73	b	8	ASN	3.2
1	A	195	G	3.2
1	A	913	G	3.2
25	Z	69	SER	3.2
31	j	249	SER	3.2
52	z	51	VAL	3.2
57	7	9	SER	3.2
2	B	57	LEU	3.2
3	C	47	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
13	M	63	LEU	3.2
18	S	26	LEU	3.2
28	AB	91	LEU	3.2
75	d8	54	LEU	3.2
7	s5	38	THR	3.2
24	Y	119	GLY	3.2
70	i	9	GLY	3.2
73	b	33	ASP	3.2
25	Z	124	ARG	3.2
32	DF	65	LYS	3.2
40	CH	8	LYS	3.2
46	t	23	LYS	3.2
60	DI	31	ARG	3.2
16	Q	125	PRO	3.2
13	M	144	ALA	3.1
29	AC	53	ALA	3.1
47	CO	29	ALA	3.1
5	E	50	ILE	3.1
17	R	43	ILE	3.1
17	c6	85	ILE	3.1
21	V	108	ILE	3.1
62	DK	61	ILE	3.1
72	d5	57	TYR	3.1
17	R	39	VAL	3.1
17	c6	19	VAL	3.1
26	DB	12	VAL	3.1
47	u	131	VAL	3.1
2	B	168	HIS	3.1
52	CT	185	LEU	3.1
39	CG	296	GLN	3.1
16	Q	50	THR	3.1
2	s0	162	CYS	3.1
2	B	107	PHE	3.1
3	C	24	PHE	3.1
58	8	109	LYS	3.1
73	d6	12	LYS	3.1
75	d8	29	ARG	3.1
33	k	42	ALA	3.1
62	AJ	8	ALA	3.1
79	Rb	115	ILE	3.1
2	B	47	VAL	3.1
6	F	123	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
9	I	144	VAL	3.1
21	V	112	VAL	3.1
26	DB	13	VAL	3.1
31	CD	168	VAL	3.1
39	CG	12	TYR	3.1
48	v	62	TYR	3.1
74	c	24	LEU	3.1
73	b	80	HIS	3.1
16	c5	104	GLN	3.1
49	CQ	193	GLN	3.1
1	sR	506	A	3.1
16	Q	78	THR	3.1
21	V	111	GLY	3.1
25	Z	117	LYS	3.1
67	AO	8	LYS	3.1
6	F	47	PHE	3.1
18	c7	71	PHE	3.1
43	q	166	ARG	3.1
67	AO	6	ARG	3.1
79	h	61	PHE	3.1
27	DA	7	ASP	3.1
2	s0	54	TRP	3.1
73	b	2	PRO	3.1
5	E	147	ALA	3.1
7	s5	56	ALA	3.1
14	c3	126	ALA	3.1
73	d6	35	ALA	3.1
7	G	90	ILE	3.1
18	S	38	ILE	3.1
34	DG	9	ILE	3.1
11	K	97	LEU	3.1
18	S	109	LEU	3.1
38	l	233	LEU	3.1
42	p	46	LEU	3.1
42	CJ	169	LEU	3.1
72	a	65	LEU	3.1
75	d	48	VAL	3.1
11	s9	123	HIS	3.1
55	CW	33	TYR	3.1
4	D	87	GLN	3.1
52	CT	150	GLN	3.1
73	b	43	ASN	3.1

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Mol	Chain	Res	Type	RSRZ
26	AA	61	LYS	3.1
32	AE	18	LYS	3.1
57	CY	124	LYS	3.1
62	DK	13	LYS	3.1
5	E	170	THR	3.1
31	j	212	GLY	3.1
16	Q	56	PHE	3.1
19	c8	145	ARG	3.1
49	CQ	59	ARG	3.1
70	sM	68	ARG	3.1
76	e	44	ARG	3.1
46	t	8	PRO	3.1
14	O	15	ALA	3.1
16	Q	74	ALA	3.1
21	V	106	ILE	3.1
46	CN	132	ALA	3.1
3	C	135	LEU	3.1
39	m	236	LEU	3.1
2	B	189	VAL	3.1
27	DA	90	VAL	3.1
9	I	148	LYS	3.1
57	CY	110	LYS	3.1
58	CZ	25	LYS	3.1
79	h	161	LYS	3.1
76	d9	20	GLN	3.1
28	AB	57	GLY	3.1
33	k	245	GLY	3.1
51	y	154	GLY	3.1
56	CX	28	ASN	3.1
75	d	43	ASN	3.1
17	c6	46	PHE	3.1
39	m	3	PHE	3.1
51	CS	174	ARG	3.1
18	S	6	THR	3.1
49	CQ	67	THR	3.1
24	Y	145	SER	3.1
1	sR	320	U	3.1
75	d8	47	PRO	3.1
23	X	111	MET	3.1
8	s6	152	ASP	3.1
21	V	103	ILE	3.1
27	DA	114	ASP	3.1

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Mol	Chain	Res	Type	RSRZ
31	CD	15	ILE	3.1
56	6	52	ALA	3.1
4	D	154	LEU	3.0
39	CG	293	LEU	3.0
78	g	117	LEU	3.0
11	s9	122	VAL	3.0
21	V	61	LYS	3.0
25	Z	123	LYS	3.0
31	CD	28	LYS	3.0
49	CQ	66	LYS	3.0
44	CL	11	TYR	3.0
4	D	89	GLN	3.0
7	s5	170	GLN	3.0
9	s7	131	PHE	3.0
12	L	96	ASN	3.0
16	c5	138	PHE	3.0
17	c6	130	GLY	3.0
39	m	223	PHE	3.0
55	CW	71	PHE	3.0
1	sR	1228	G	3.0
35	AR	3276	G	3.0
75	d8	5	THR	3.0
75	d8	57	MET	3.0
1	sR	1285	U	3.0
9	I	98	ILE	3.0
33	k	94	GLU	3.0
48	CP	133	ILE	3.0
39	CG	288	ALA	3.0
57	7	66	GLU	3.0
79	Rb	27	ALA	3.0
6	F	44	LEU	3.0
12	c0	26	ASP	3.0
21	V	93	LEU	3.0
2	B	50	VAL	3.0
9	s7	90	VAL	3.0
58	8	110	VAL	3.0
73	d6	18	VAL	3.0
3	C	222	LYS	3.0
9	I	150	GLN	3.0
11	s9	114	TYR	3.0
73	d6	95	ARG	3.0
19	c8	128	PHE	3.0

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Mol	Chain	Res	Type	RSRZ
29	AC	20	GLY	3.0
5	E	177	MET	3.0
8	H	163	THR	3.0
13	c1	37	ASN	3.0
9	s7	4	PRO	3.0
12	c0	83	PRO	3.0
21	V	104	THR	3.0
28	AB	29	PRO	3.0
33	k	235	THR	3.0
70	sM	82	THR	3.0
73	b	97	PRO	3.0
33	CE	25	ILE	3.0
4	D	225	LEU	3.0
8	H	138	ALA	3.0
10	s8	34	ALA	3.0
11	K	106	GLU	3.0
58	8	38	LEU	3.0
64	DM	31	LEU	3.0
68	AP	34	SER	3.0
79	h	91	LEU	3.0
79	Rb	141	LEU	3.0
79	Rb	214	ALA	3.0
1	sR	1199	G	3.0
35	AR	1569	U	3.0
35	AR	1573	G	3.0
35	AR	2505	U	3.0
5	s3	148	LYS	3.0
15	c4	28	VAL	3.0
70	i	104	LYS	3.0
71	p0	187	VAL	3.0
75	d8	7	VAL	3.0
11	K	132	ARG	3.0
3	C	105	PHE	3.0
9	s7	24	PHE	3.0
9	s7	108	GLN	3.0
10	J	50	GLY	3.0
33	k	173	GLN	3.0
33	k	226	PHE	3.0
56	CX	3	GLY	3.0
14	O	4	MET	3.0
2	B	104	PRO	3.0
2	s0	124	THR	3.0

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Mol	Chain	Res	Type	RSRZ
15	P	96	PRO	3.0
16	c5	30	THR	3.0
20	c9	111	ILE	3.0
46	CN	62	THR	3.0
8	s6	133	LEU	3.0
9	I	153	LEU	3.0
17	R	57	LEU	3.0
52	CT	164	LEU	3.0
77	f	39	LEU	3.0
29	DD	2	ALA	3.0
31	j	235	ALA	3.0
79	Rb	293	ALA	3.0
7	G	84	LYS	3.0
16	c5	51	SER	3.0
42	p	245	LYS	3.0
8	H	97	VAL	3.0
16	c5	86	VAL	3.0
21	d0	51	VAL	3.0
24	Y	124	VAL	3.0
57	CY	76	VAL	3.0
75	d	30	VAL	3.0
10	J	178	ARG	3.0
11	K	6	ARG	3.0
35	1	2418	G	3.0
36	3	1	G	3.0
45	CM	10	ARG	3.0
11	K	104	PHE	3.0
39	m	156	GLY	3.0
49	w	57	PHE	3.0
1	sR	673	A	3.0
44	CL	112	GLN	3.0
6	F	138	TYR	3.0
22	d1	12	TYR	3.0
39	CG	44	TYR	3.0
52	CT	78	TYR	3.0
2	B	170	ILE	3.0
38	CF	30	ILE	3.0
45	s	14	ILE	3.0
60	DI	90	ILE	3.0
65	AM	51	ILE	3.0
21	V	78	THR	3.0
45	s	147	THR	3.0

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Mol	Chain	Res	Type	RSRZ
46	t	7	LEU	3.0
67	AO	10	THR	3.0
54	2	77	ASN	3.0
2	B	40	ALA	3.0
7	s5	183	ALA	3.0
10	s8	53	LYS	3.0
10	s8	148	ALA	3.0
30	DE	80	ALA	3.0
73	d6	47	ALA	3.0
73	d6	81	ALA	3.0
75	d	63	ALA	3.0
17	R	50	GLU	3.0
45	CM	108	GLU	3.0
78	g	136	LYS	3.0
4	D	237	VAL	3.0
6	F	136	VAL	3.0
15	c4	48	VAL	3.0
23	X	5	SER	3.0
33	k	2	SER	3.0
38	CF	113	VAL	3.0
75	d8	44	VAL	3.0
79	Rb	167	VAL	3.0
57	7	51	TRP	3.0
8	H	89	ASP	2.9
33	CE	10	ARG	2.9
67	DP	18	ARG	2.9
79	h	121	MET	2.9
79	Rb	263	PHE	2.9
6	F	193	GLY	2.9
13	c1	147	GLY	2.9
19	T	135	GLY	2.9
26	AA	32	GLY	2.9
2	B	33	GLN	2.9
8	H	65	GLN	2.9
42	CJ	123	GLN	2.9
4	D	129	ILE	2.9
14	O	16	ILE	2.9
17	R	142	TYR	2.9
40	CH	130	ILE	2.9
46	CN	3	ILE	2.9
2	B	176	LEU	2.9
3	C	207	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
3	s1	96	LEU	2.9
6	F	131	LEU	2.9
11	K	128	LEU	2.9
79	h	34	LEU	2.9
10	s8	48	THR	2.9
69	DR	6	LYS	2.9
76	e	47	ALA	2.9
3	C	134	VAL	2.9
17	c6	39	VAL	2.9
2	B	2	SER	2.9
7	s5	167	ARG	2.9
13	c1	30	ARG	2.9
51	CS	7	SER	2.9
1	A	261	U	2.9
11	K	147	MET	2.9
15	c4	61	MET	2.9
14	c3	59	GLY	2.9
15	P	87	GLY	2.9
9	I	4	PRO	2.9
9	s7	58	LEU	2.9
13	c1	63	LEU	2.9
16	c5	22	LEU	2.9
23	X	35	ILE	2.9
30	DE	100	ILE	2.9
45	s	172	LEU	2.9
51	y	166	LEU	2.9
75	d	16	LEU	2.9
79	h	131	ILE	2.9
58	CZ	100	LYS	2.9
70	sM	83	LYS	2.9
76	e	14	TYR	2.9
34	AF	127	ALA	2.9
38	l	56	ALA	2.9
70	sM	66	ALA	2.9
1	A	655	G	2.9
6	F	188	ASN	2.9
19	c8	67	GLU	2.9
39	m	130	GLU	2.9
73	b	69	ASN	2.9
76	d9	45	GLU	2.9
28	DC	139	ARG	2.9
58	CZ	33	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
73	b	22	ARG	2.9
23	X	30	SER	2.9
23	X	76	SER	2.9
34	DG	26	HIS	2.9
73	d6	17	HIS	2.9
4	D	57	PHE	2.9
44	r	217	PHE	2.9
3	C	102	GLY	2.9
4	s2	75	GLY	2.9
19	c8	91	ASP	2.9
25	d4	122	GLY	2.9
35	AR	1356	U	2.9
45	s	11	ASP	2.9
60	DI	27	GLY	2.9
2	s0	207	PRO	2.9
5	s3	202	LEU	2.9
7	s5	63	GLN	2.9
9	s7	13	PRO	2.9
15	P	94	PRO	2.9
23	X	95	PRO	2.9
79	h	57	PRO	2.9
28	AB	92	LYS	2.9
57	7	12	LYS	2.9
20	c9	55	TYR	2.9
72	d5	59	TYR	2.9
4	D	92	ALA	2.9
10	s8	99	ALA	2.9
12	c0	23	ALA	2.9
28	DC	149	ALA	2.9
46	t	47	ALA	2.9
4	D	96	THR	2.9
4	D	117	THR	2.9
54	2	61	THR	2.9
5	E	135	GLU	2.9
5	s3	16	VAL	2.9
9	I	182	VAL	2.9
21	V	51	VAL	2.9
25	Z	24	VAL	2.9
54	CV	124	VAL	2.9
5	E	40	ARG	2.9
11	K	171	ARG	2.9
23	d2	41	MET	2.9

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Mol	Chain	Res	Type	RSRZ
23	d2	117	ARG	2.9
73	b	11	ASN	2.9
79	h	59	ARG	2.9
11	K	146	PHE	2.9
53	0	3	HIS	2.9
60	DI	7	PHE	2.9
4	s2	181	SER	2.9
8	H	217	SER	2.9
76	e	9	SER	2.9
79	h	35	SER	2.9
60	AH	53	GLY	2.9
6	s4	31	PRO	2.9
7	s5	188	LYS	2.9
17	c6	29	ILE	2.9
19	c8	18	LEU	2.9
20	U	132	LEU	2.9
29	DD	23	LYS	2.9
35	1	1782	U	2.9
42	p	189	LEU	2.9
46	CN	52	ASP	2.9
79	Rb	123	ILE	2.9
59	DH	90	PRO	2.9
69	DR	61	LYS	2.9
70	i	105	LYS	2.9
70	sM	44	PRO	2.9
8	H	190	GLN	2.9
8	s6	169	TYR	2.9
20	U	50	ALA	2.9
27	DA	43	TYR	2.9
52	z	131	ALA	2.9
4	s2	121	VAL	2.9
8	s6	67	VAL	2.9
26	AA	62	VAL	2.9
39	CG	38	THR	2.9
58	CZ	31	THR	2.9
73	b	18	VAL	2.9
77	f	50	VAL	2.9
11	s9	33	GLU	2.9
70	sM	51	ARG	2.9
31	CD	7	ASN	2.9
56	6	4	ASN	2.9
73	d6	8	ASN	2.9

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Mol	Chain	Res	Type	RSRZ
1	A	239	C	2.8
1	A	1082	C	2.8
2	s0	188	LEU	2.8
4	D	181	SER	2.8
11	K	145	SER	2.8
17	R	54	LEU	2.8
21	d0	20	ILE	2.8
23	X	104	LEU	2.8
29	AC	59	LYS	2.8
29	DD	28	LYS	2.8
57	7	54	LEU	2.8
62	DK	58	ILE	2.8
73	b	3	LYS	2.8
73	b	60	PRO	2.8
4	s2	199	GLN	2.8
32	DF	47	ASP	2.8
43	q	5	GLN	2.8
57	7	32	GLN	2.8
35	AR	2996	U	2.8
13	c1	145	ALA	2.8
23	X	108	ALA	2.8
28	AB	66	ALA	2.8
13	c1	64	VAL	2.8
16	c5	93	VAL	2.8
76	d9	14	TYR	2.8
78	g	102	VAL	2.8
78	e1	102	VAL	2.8
13	c1	82	ARG	2.8
17	c6	17	THR	2.8
28	AB	117	ARG	2.8
47	CO	66	THR	2.8
18	S	71	PHE	2.8
63	DL	48	ASN	2.8
32	AE	27	LYS	2.8
39	m	5	LYS	2.8
39	m	8	LYS	2.8
45	s	75	LYS	2.8
49	w	134	LYS	2.8
65	DN	44	TRP	2.8
69	DR	28	LYS	2.8
78	g	82	LYS	2.8
3	C	217	LEU	2.8

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Mol	Chain	Res	Type	RSRZ
4	D	240	LEU	2.8
5	E	96	LEU	2.8
6	F	195	ILE	2.8
9	s7	98	ILE	2.8
9	s7	176	LEU	2.8
13	M	120	GLY	2.8
31	j	180	LEU	2.8
33	CE	315	GLY	2.8
40	n	130	ILE	2.8
54	2	62	GLY	2.8
77	f	32	GLY	2.8
79	Rb	34	LEU	2.8
1	sR	217	A	2.8
1	sR	678	A	2.8
35	1	2772	C	2.8
42	CJ	121	SER	2.8
79	h	65	SER	2.8
5	E	171	ALA	2.8
35	AR	3207	U	2.8
73	b	56	ALA	2.8
3	C	91	VAL	2.8
8	H	157	VAL	2.8
18	c7	121	VAL	2.8
24	d3	92	CYS	2.8
52	CT	22	VAL	2.8
7	G	209	TYR	2.8
26	AA	15	ARG	2.8
31	j	247	ARG	2.8
63	DL	66	TYR	2.8
5	E	172	THR	2.8
9	s7	177	THR	2.8
21	V	67	THR	2.8
39	CG	189	GLU	2.8
51	CS	100	THR	2.8
55	CW	55	THR	2.8
20	c9	110	LYS	2.8
29	DD	33	LYS	2.8
76	d9	16	LYS	2.8
2	s0	164	ASN	2.8
15	P	115	ILE	2.8
15	c4	137	LEU	2.8
17	c6	43	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
17	c6	118	ILE	2.8
19	T	18	LEU	2.8
2	B	54	TRP	2.8
20	U	36	ILE	2.8
30	DE	41	LEU	2.8
43	CK	191	LEU	2.8
49	w	42	ASN	2.8
50	x	120	ASN	2.8
61	DJ	118	ILE	2.8
64	AL	5	ILE	2.8
74	c	8	LEU	2.8
67	AO	5	TRP	2.8
10	s8	33	PRO	2.8
14	O	6	SER	2.8
32	DF	76	SER	2.8
33	CE	24	SER	2.8
39	CG	4	GLN	2.8
1	A	72	A	2.8
1	A	1796	C	2.8
14	c3	144	ALA	2.8
46	CN	166	ALA	2.8
53	0	31	ALA	2.8
63	AK	88	ALA	2.8
79	Rb	212	ALA	2.8
5	s3	12	VAL	2.8
15	c4	135	ARG	2.8
19	c8	133	VAL	2.8
52	CT	51	VAL	2.8
52	CT	170	ARG	2.8
59	AG	48	ARG	2.8
73	b	89	ARG	2.8
1	A	1145	U	2.8
35	AR	3275	U	2.8
11	K	8	TYR	2.8
42	CJ	49	TYR	2.8
54	2	65	TYR	2.8
8	H	149	LYS	2.8
8	s6	156	PHE	2.8
9	I	183	PHE	2.8
10	J	199	LYS	2.8
18	c7	59	LYS	2.8
26	AA	92	PHE	2.8

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Mol	Chain	Res	Type	RSRZ
59	AG	20	LYS	2.8
69	DR	7	LYS	2.8
73	d6	4	LYS	2.8
2	s0	9	LEU	2.8
9	I	89	HIS	2.8
10	s8	58	LEU	2.8
21	d0	93	LEU	2.8
27	DA	35	LEU	2.8
32	DF	97	LEU	2.8
58	CZ	34	LEU	2.8
76	d9	27	HIS	2.8
8	H	158	ILE	2.8
8	s6	175	ILE	2.8
14	c3	71	ILE	2.8
42	p	64	ILE	2.8
43	q	41	ILE	2.8
46	CN	93	ILE	2.8
60	DI	100	ILE	2.8
2	s0	97	PRO	2.8
10	s8	67	TRP	2.8
16	Q	82	ASN	2.8
41	o	237	ASN	2.8
58	CZ	140	GLY	2.8
76	e	7	TRP	2.8
2	B	127	ARG	2.8
10	J	198	ALA	2.8
17	c6	68	ARG	2.8
31	CD	242	ARG	2.8
31	j	182	ALA	2.8
60	AH	72	VAL	2.8
65	AM	36	ARG	2.8
66	AN	107	ALA	2.8
67	AO	2	ARG	2.8
71	p0	28	VAL	2.8
73	b	45	VAL	2.8
1	A	1626	U	2.8
7	s5	77	TYR	2.8
16	c5	17	TYR	2.8
35	1	3079	U	2.8
69	AQ	14	TYR	2.8
8	H	95	LYS	2.8
10	s8	199	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
11	K	130	THR	2.8
73	b	37	LYS	2.8
14	O	26	PHE	2.8
53	0	75	PHE	2.8
7	G	165	LEU	2.8
19	c8	61	LEU	2.8
5	s3	174	HIS	2.8
4	D	93	GLY	2.8
11	K	35	GLY	2.8
14	O	2	GLY	2.8
33	k	228	GLY	2.8
59	AG	79	GLY	2.8
18	S	97	ASN	2.7
1	A	1715	G	2.7
2	s0	187	ALA	2.7
3	C	48	VAL	2.7
4	s2	86	VAL	2.7
9	s7	12	ALA	2.7
13	c1	116	ARG	2.7
23	X	6	VAL	2.7
23	X	62	VAL	2.7
33	k	172	ALA	2.7
44	r	26	VAL	2.7
68	AP	81	ALA	2.7
79	h	24	ALA	2.7
28	AB	93	SER	2.7
68	DQ	34	SER	2.7
6	F	79	ASP	2.7
6	F	134	LYS	2.7
9	I	151	LYS	2.7
21	d0	21	LYS	2.7
52	z	53	LYS	2.7
58	CZ	58	ASP	2.7
71	p0	43	LYS	2.7
1	A	260	U	2.7
8	s6	144	PHE	2.7
12	L	64	TYR	2.7
15	P	27	PHE	2.7
18	S	53	TYR	2.7
11	K	116	LEU	2.7
18	S	25	THR	2.7
20	U	108	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
64	AL	14	LEU	2.7
65	DN	34	THR	2.7
38	CF	280	ILE	2.7
62	AJ	94	ILE	2.7
6	F	167	GLY	2.7
10	J	2	GLY	2.7
24	d3	2	GLY	2.7
32	DF	22	GLY	2.7
70	sM	40	PRO	2.7
13	c1	21	ASN	2.7
26	DB	127	ASN	2.7
10	s8	8	ARG	2.7
14	O	3	ARG	2.7
24	Y	32	ARG	2.7
2	s0	20	ALA	2.7
5	E	3	ALA	2.7
5	E	149	ALA	2.7
5	s3	219	ALA	2.7
7	G	26	ALA	2.7
15	P	13	VAL	2.7
26	DB	74	VAL	2.7
38	CF	130	ALA	2.7
40	n	141	VAL	2.7
44	r	6	ALA	2.7
47	CO	131	VAL	2.7
51	y	162	ALA	2.7
58	8	128	ALA	2.7
72	d5	66	VAL	2.7
75	d8	48	VAL	2.7
3	C	85	LYS	2.7
9	s7	124	LYS	2.7
11	K	65	LYS	2.7
21	d0	53	LYS	2.7
25	d4	123	LYS	2.7
29	DD	58	LYS	2.7
32	DF	61	LYS	2.7
35	AR	437	G	2.7
2	B	102	PHE	2.7
5	E	202	LEU	2.7
6	F	56	LEU	2.7
11	K	94	ASP	2.7
11	s9	58	ASP	2.7

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Mol	Chain	Res	Type	RSRZ
11	s9	104	PHE	2.7
21	V	34	LEU	2.7
30	DE	16	LEU	2.7
38	CF	182	LEU	2.7
39	CG	6	ASP	2.7
42	p	49	TYR	2.7
47	CO	92	GLU	2.7
4	D	39	THR	2.7
8	H	32	ILE	2.7
42	p	201	THR	2.7
43	q	10	ILE	2.7
43	CK	41	ILE	2.7
73	d6	68	TYR	2.7
79	h	74	THR	2.7
79	h	99	THR	2.7
1	A	1578	U	2.7
10	s8	44	HIS	2.7
17	R	21	HIS	2.7
24	d3	18	HIS	2.7
13	c1	113	PRO	2.7
35	1	2404	A	2.7
75	d8	17	GLY	2.7
12	L	1	MET	2.7
31	j	204	MET	2.7
11	K	74	ASN	2.7
31	CD	64	ARG	2.7
54	2	88	ARG	2.7
11	K	136	VAL	2.7
16	Q	94	VAL	2.7
9	I	101	LYS	2.7
11	s9	51	LYS	2.7
11	s9	110	GLN	2.7
39	CG	7	ALA	2.7
41	CI	23	ALA	2.7
13	M	32	LYS	2.7
31	CD	93	LYS	2.7
56	CX	7	GLN	2.7
60	AH	33	GLN	2.7
61	DJ	74	LYS	2.7
6	F	52	LEU	2.7
7	s5	48	PHE	2.7
8	H	147	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
25	Z	125	LEU	2.7
27	DA	104	LEU	2.7
29	DD	32	LEU	2.7
34	AF	128	LEU	2.7
38	CF	26	PHE	2.7
46	CN	51	LEU	2.7
52	CT	184	LEU	2.7
60	AH	7	PHE	2.7
75	d8	9	LEU	2.7
9	I	168	SER	2.7
3	C	32	ILE	2.7
8	H	226	ILE	2.7
32	AE	36	ILE	2.7
2	B	190	ASP	2.7
4	D	78	ASP	2.7
38	l	54	GLU	2.7
42	CJ	124	ASP	2.7
6	F	146	THR	2.7
79	h	96	THR	2.7
1	A	497	G	2.7
7	s5	67	PRO	2.7
13	c1	59	PRO	2.7
28	DC	23	GLY	2.7
33	CE	309	GLY	2.7
73	b	31	PRO	2.7
28	AB	42	ARG	2.7
31	CD	6	ARG	2.7
44	r	21	ARG	2.7
67	AO	15	ARG	2.7
75	d	67	ARG	2.7
70	i	110	TRP	2.7
5	E	85	VAL	2.7
9	I	59	ALA	2.7
13	c1	57	LYS	2.7
13	c1	117	VAL	2.7
13	c1	141	LYS	2.7
17	c6	119	ALA	2.7
20	c9	119	LYS	2.7
23	X	63	VAL	2.7
24	d3	28	ASN	2.7
26	DB	124	ALA	2.7
32	AE	5	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
39	CG	58	LYS	2.7
46	CN	24	VAL	2.7
76	d9	23	VAL	2.7
78	g	99	LYS	2.7
78	g	149	LYS	2.7
79	h	212	ALA	2.7
10	s8	20	GLN	2.7
20	c9	48	GLN	2.7
45	CM	39	GLN	2.7
60	DI	61	GLN	2.7
11	K	109	LEU	2.7
18	S	113	LEU	2.7
18	c7	100	LEU	2.7
42	CJ	34	PHE	2.7
63	AK	74	PHE	2.7
16	c5	96	ILE	2.7
21	d0	41	ILE	2.7
73	b	79	ILE	2.7
3	C	28	GLU	2.7
8	H	225	GLU	2.7
17	c6	2	SER	2.7
2	B	125	ASP	2.7
14	O	141	TYR	2.7
15	c4	124	ASP	2.7
17	c6	58	ASP	2.7
32	AE	46	THR	2.7
42	p	74	THR	2.7
45	s	131	MET	2.7
52	CT	58	HIS	2.7
53	0	70	THR	2.7
79	Rb	79	TYR	2.7
15	P	97	GLY	2.7
16	Q	75	PRO	2.7
16	c5	109	PRO	2.7
23	X	21	GLY	2.7
16	c5	81	ARG	2.6
35	1	2875	U	2.7
35	AR	3157	U	2.7
65	AM	45	ARG	2.6
17	R	140	LYS	2.6
38	CF	315	LYS	2.6
7	s5	160	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
26	DB	43	VAL	2.6
77	e0	62	VAL	2.6
2	B	145	ALA	2.6
6	F	110	ALA	2.6
10	s8	19	ALA	2.6
14	O	24	ALA	2.6
60	DI	82	ALA	2.6
69	DR	2	ALA	2.6
54	CV	77	ASN	2.6
2	s0	24	LEU	2.6
7	G	25	LEU	2.6
1	A	1284	C	2.6
10	J	152	ILE	2.6
20	c9	113	ILE	2.6
30	DE	18	ILE	2.6
47	u	39	ILE	2.6
60	DI	20	ILE	2.6
33	k	261	MET	2.6
21	V	66	SER	2.6
3	C	63	GLY	2.6
7	s5	30	PRO	2.6
7	s5	147	THR	2.6
8	H	33	GLY	2.6
9	s7	173	TYR	2.6
11	K	63	ASP	2.6
19	c8	140	THR	2.6
46	t	130	GLY	2.6
49	w	81	TYR	2.6
56	6	134	GLY	2.6
79	Rb	138	GLY	2.6
3	C	64	ARG	2.6
7	G	102	ARG	2.6
15	P	41	ARG	2.6
18	S	45	ARG	2.6
33	CE	369	ARG	2.6
76	d9	22	ARG	2.6
2	s0	167	LYS	2.6
6	F	22	LYS	2.6
15	c4	92	LYS	2.6
31	j	46	LYS	2.6
51	CS	11	LYS	2.6
52	CT	82	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
73	b	4	LYS	2.6
48	CP	89	VAL	2.6
58	8	26	VAL	2.6
59	AG	59	VAL	2.6
75	d8	55	VAL	2.6
79	h	104	VAL	2.6
18	S	15	ALA	2.6
21	V	95	ALA	2.6
26	AA	2	ALA	2.6
29	AC	56	ALA	2.6
42	p	184	ALA	2.6
56	CX	6	ALA	2.6
71	p0	49	ALA	2.6
79	Rb	204	ALA	2.6
31	j	179	LEU	2.6
52	z	44	LEU	2.6
61	DJ	61	GLN	2.6
64	AL	40	GLN	2.6
66	AN	121	LEU	2.6
69	DR	25	GLN	2.6
7	G	82	PHE	2.6
29	AC	6	ASN	2.6
33	k	328	ILE	2.6
34	AF	17	PHE	2.6
41	CI	237	ASN	2.6
10	J	43	ILE	2.6
23	X	34	ILE	2.6
39	m	148	ILE	2.6
44	CL	213	PHE	2.6
5	E	47	GLU	2.6
51	CS	95	GLU	2.6
2	s0	46	HIS	2.6
7	G	164	PRO	2.6
7	s5	28	PRO	2.6
21	d0	96	PRO	2.6
35	1	1866	C	2.6
2	B	110	TYR	2.6
10	s8	117	TYR	2.6
25	d4	69	SER	2.6
51	CS	169	GLY	2.6
57	CY	64	THR	2.6
63	DL	71	SER	2.6

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Mol	Chain	Res	Type	RSRZ
4	D	174	ARG	2.6
6	F	10	LYS	2.6
7	s5	80	LYS	2.6
16	c5	108	ARG	2.6
22	W	62	ARG	2.6
28	DC	47	LYS	2.6
31	j	188	LYS	2.6
52	z	82	LYS	2.6
70	sM	49	LYS	2.6
3	s1	134	VAL	2.6
48	v	75	VAL	2.6
73	d6	58	VAL	2.6
79	Rb	156	VAL	2.6
1	A	241	U	2.6
32	AE	99	ALA	2.6
33	k	135	ALA	2.6
46	CN	151	ALA	2.6
75	d8	10	ALA	2.6
3	C	54	LEU	2.6
30	AD	41	LEU	2.6
46	CN	53	LEU	2.6
52	CT	155	LEU	2.6
60	AH	51	LEU	2.6
27	DA	120	GLN	2.6
41	CI	159	GLN	2.6
5	s3	17	PHE	2.6
16	c5	12	PHE	2.6
26	DB	72	ILE	2.6
68	AP	106	PHE	2.6
76	e	55	PHE	2.6
79	Rb	188	ILE	2.6
1	A	359	A	2.6
21	V	94	GLU	2.6
35	AR	2445	A	2.6
52	CT	152	GLU	2.6
11	K	144	PRO	2.6
23	d2	29	PRO	2.6
4	D	91	ARG	2.6
18	c7	98	GLY	2.6
29	AC	58	LYS	2.6
33	k	146	ARG	2.6
42	p	98	ARG	2.6

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Mol	Chain	Res	Type	RSRZ
44	CL	164	LYS	2.6
46	t	31	LYS	2.6
48	CP	72	LYS	2.6
48	CP	109	ARG	2.6
57	CY	47	ARG	2.6
59	AG	46	GLY	2.6
67	AO	18	ARG	2.6
67	DP	15	ARG	2.6
79	Rb	125	GLY	2.6
3	C	25	THR	2.6
6	F	27	TYR	2.6
13	M	90	TYR	2.6
13	c1	27	THR	2.6
16	c5	135	THR	2.6
14	O	14	SER	2.6
21	V	120	SER	2.6
22	W	53	TYR	2.6
33	CE	235	THR	2.6
48	v	167	THR	2.6
22	W	68	SER	2.6
50	CR	66	SER	2.6
58	CZ	60	TYR	2.6
63	DL	87	SER	2.6
71	p0	275	SER	2.6
1	sR	1537	C	2.6
45	s	170	ASP	2.6
16	c5	34	VAL	2.6
17	c6	97	VAL	2.6
56	6	135	VAL	2.6
58	CZ	99	VAL	2.6
77	e0	47	VAL	2.6
2	B	5	ALA	2.6
2	B	65	ALA	2.6
2	s0	146	LEU	2.6
6	s4	246	LEU	2.6
17	R	18	ALA	2.6
19	c8	146	ALA	2.6
24	Y	33	LEU	2.6
34	DG	77	ALA	2.6
43	q	191	LEU	2.6
46	CN	47	ALA	2.6
48	v	22	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
2	B	160	ILE	2.6
6	F	236	ILE	2.6
6	s4	248	ILE	2.6
7	G	40	ILE	2.6
27	DA	119	ILE	2.6
28	DC	79	TRP	2.6
33	CE	335	ILE	2.6
33	k	233	TRP	2.6
39	CG	185	PHE	2.6
62	AJ	9	ILE	2.6
16	Q	80	MET	2.6
4	s2	82	ASN	2.6
3	s1	90	GLU	2.6
8	H	8	PRO	2.6
11	K	16	LYS	2.6
16	c5	87	PRO	2.6
23	X	19	LYS	2.6
47	CO	127	LYS	2.6
53	0	5	LYS	2.6
54	2	50	LYS	2.6
79	h	118	LYS	2.6
3	C	44	GLY	2.6
6	F	39	ARG	2.6
61	DJ	48	ARG	2.6
63	DL	57	HIS	2.6
6	s4	4	GLY	2.6
8	H	146	GLY	2.6
8	H	180	THR	2.6
42	p	86	THR	2.6
58	CZ	119	THR	2.6
62	DK	53	TYR	2.6
6	F	70	VAL	2.6
8	H	36	VAL	2.6
16	c5	126	VAL	2.6
31	j	195	SER	2.6
39	CG	135	VAL	2.6
44	r	91	VAL	2.6
49	w	89	SER	2.6
8	H	76	LEU	2.6
21	V	119	ALA	2.5
44	CL	219	ALA	2.5
52	CT	183	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
53	0	24	LEU	2.6
58	8	108	LEU	2.6
1	A	175	G	2.5
35	1	3044	G	2.5
2	s0	111	ILE	2.5
13	c1	94	ILE	2.5
16	Q	85	ILE	2.5
20	U	45	MET	2.5
20	c9	116	ILE	2.5
33	CE	308	MET	2.5
43	q	179	ILE	2.5
3	C	220	GLN	2.5
17	c6	83	GLN	2.5
23	X	64	GLN	2.5
74	d7	5	GLN	2.5
3	C	216	LYS	2.5
12	L	25	LYS	2.5
21	V	121	ASN	2.5
45	CM	7	ASN	2.5
54	2	97	LYS	2.5
67	AO	25	LYS	2.5
76	e	53	ASN	2.5
76	d9	5	ASN	2.5
6	F	107	GLY	2.5
17	c6	42	GLU	2.5
30	AD	35	ARG	2.5
33	CE	145	GLU	2.5
48	v	2	GLY	2.5
49	w	4	GLU	2.5
58	CZ	79	GLY	2.5
2	s0	189	VAL	2.5
11	s9	7	THR	2.5
15	c4	126	THR	2.5
17	R	110	THR	2.5
22	d1	82	VAL	2.5
11	K	105	LEU	2.5
12	c0	15	LEU	2.5
23	X	46	TYR	2.5
38	l	354	VAL	2.5
39	m	119	TYR	2.5
43	q	180	TYR	2.5
46	CN	57	VAL	2.5

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Mol	Chain	Res	Type	RSRZ
54	2	84	TYR	2.5
75	d8	25	VAL	2.5
35	1	1025	A	2.5
35	1	2256	A	2.5
35	AR	2401	A	2.5
69	DR	86	LEU	2.5
79	Rb	252	LEU	2.5
11	K	125	ALA	2.5
22	d1	37	ALA	2.5
24	Y	41	SER	2.5
46	t	2	ALA	2.5
64	AL	2	ALA	2.5
79	h	318	ALA	2.5
50	CR	108	ASP	2.5
79	h	114	ASP	2.5
22	W	34	ILE	2.5
45	CM	9	MET	2.5
55	CW	38	ILE	2.5
66	AN	78	ILE	2.5
72	d5	88	ILE	2.5
79	Rb	54	PHE	2.5
48	v	200	TRP	2.5
35	AR	2444	C	2.5
7	s5	54	LYS	2.5
7	s5	87	CYS	2.5
11	s9	10	LYS	2.5
13	M	46	LYS	2.5
47	CO	133	LYS	2.5
48	CP	204	LYS	2.5
51	CS	98	LYS	2.5
60	AH	67	LYS	2.5
8	H	88	ARG	2.5
8	s6	70	PRO	2.5
16	c5	75	PRO	2.5
49	CQ	78	ARG	2.5
51	y	151	ARG	2.5
56	6	48	ARG	2.5
57	7	47	ARG	2.5
76	d9	11	PRO	2.5
7	s5	100	ASN	2.5
17	R	32	ASN	2.5
19	c8	90	ASN	2.5

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Mol	Chain	Res	Type	RSRZ
31	CD	194	ASN	2.5
33	k	12	GLY	2.5
42	p	235	GLY	2.5
3	C	46	THR	2.5
3	C	126	THR	2.5
4	D	156	THR	2.5
5	E	69	LEU	2.5
7	s5	108	LEU	2.5
11	K	61	THR	2.5
21	V	42	VAL	2.5
21	V	116	VAL	2.5
25	Z	18	LEU	2.5
29	AC	54	LEU	2.5
34	AF	85	LEU	2.5
38	l	82	THR	2.5
38	CF	179	LEU	2.5
45	s	171	VAL	2.5
58	CZ	83	VAL	2.5
60	DI	5	VAL	2.5
71	p0	67	LEU	2.5
71	p0	190	VAL	2.5
73	b	24	VAL	2.5
73	d6	86	VAL	2.5
79	Rb	13	LEU	2.5
7	s5	36	ALA	2.5
42	CJ	114	ALA	2.5
70	sM	35	ALA	2.5
76	d9	47	ALA	2.5
20	U	5	SER	2.5
23	X	47	ILE	2.5
72	d5	100	ILE	2.5
17	R	46	PHE	2.5
20	U	35	ASP	2.5
27	9	53	ASP	2.5
35	1	440	A	2.5
35	AR	980	A	2.5
57	7	29	PHE	2.5
63	DL	78	PHE	2.5
70	sM	43	ASP	2.5
79	h	103	PHE	2.5
13	M	118	GLN	2.5
16	c5	52	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
33	k	20	LYS	2.5
47	CO	41	GLN	2.5
7	G	81	ARG	2.5
7	s5	143	ARG	2.5
28	AB	14	HIS	2.5
5	E	23	GLU	2.5
6	F	60	GLU	2.5
6	s4	74	GLY	2.5
35	AR	1574	C	2.5
41	CI	234	GLU	2.5
57	7	24	GLY	2.5
57	CY	107	GLU	2.5
76	e	5	ASN	2.5
1	A	1330	G	2.5
3	C	215	VAL	2.5
5	E	137	VAL	2.5
7	G	194	LEU	2.5
8	H	162	VAL	2.5
15	P	30	VAL	2.5
19	T	86	LEU	2.5
21	d0	42	VAL	2.5
47	u	20	VAL	2.5
47	u	135	LEU	2.5
60	DI	22	VAL	2.5
71	p0	25	LEU	2.5
71	p0	70	LEU	2.5
78	g	100	LEU	2.5
79	Rb	8	VAL	2.5
7	s5	146	THR	2.5
15	c4	86	THR	2.5
24	Y	84	THR	2.5
9	s7	57	ALA	2.5
10	s8	40	ALA	2.5
10	s8	55	TYR	2.5
12	L	65	TYR	2.5
18	c7	53	TYR	2.5
19	T	83	ALA	2.5
20	U	62	ALA	2.5
38	CF	189	ALA	2.5
65	AM	3	ALA	2.5
71	p0	22	TYR	2.5
72	a	36	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
79	h	100	TYR	2.5
4	s2	178	ILE	2.5
5	E	168	ILE	2.5
3	C	223	PHE	2.5
30	AD	70	PHE	2.5
6	F	168	LYS	2.5
8	H	96	SER	2.5
20	c9	97	SER	2.5
32	DF	86	LYS	2.5
38	l	153	SER	2.5
70	sM	28	SER	2.5
40	CH	4	GLN	2.5
35	1	2207	A	2.5
75	d8	61	ARG	2.5
42	CJ	127	PRO	2.5
4	D	34	GLY	2.5
6	F	197	HIS	2.5
39	CG	156	GLY	2.5
42	CJ	119	GLY	2.5
10	s8	187	GLU	2.5
31	CD	109	GLU	2.5
6	F	38	LEU	2.5
6	s4	12	LEU	2.5
32	AE	4	LEU	2.5
71	p0	93	LEU	2.5
11	K	172	VAL	2.5
21	V	56	VAL	2.5
21	V	62	VAL	2.5
29	DD	6	ASN	2.5
38	l	328	ASN	2.5
72	a	66	VAL	2.5
43	CK	1	MET	2.5
3	C	84	ILE	2.5
3	C	197	ILE	2.5
5	s3	115	ILE	2.5
25	Z	7	ILE	2.5
30	AD	105	ALA	2.5
38	CF	24	ALA	2.5
57	CY	82	ILE	2.5
61	AI	101	THR	2.5
62	DK	96	ALA	2.5
66	AN	77	ILE	2.5

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Mol	Chain	Res	Type	RSRZ
68	AP	30	ALA	2.5
70	i	87	THR	2.5
70	sM	65	THR	2.5
77	e0	2	ALA	2.5
2	s0	204	TYR	2.5
6	F	54	TYR	2.5
13	c1	60	PHE	2.5
16	c5	119	PHE	2.5
24	Y	38	PHE	2.5
39	CG	119	TYR	2.5
42	p	34	PHE	2.5
11	s9	68	LYS	2.4
17	c6	95	LYS	2.4
23	X	60	LYS	2.4
34	AF	11	LYS	2.4
39	CG	8	LYS	2.4
45	s	85	LYS	2.4
46	CN	23	LYS	2.4
63	AK	68	LYS	2.4
69	AQ	3	LYS	2.4
11	K	79	ARG	2.4
16	c5	32	ASP	2.4
42	CJ	255	SER	2.4
33	CE	270	ARG	2.4
38	l	69	ARG	2.4
42	CJ	192	GLN	2.4
44	r	130	ASP	2.4
56	6	84	SER	2.4
67	AO	23	ARG	2.4
13	c1	45	PRO	2.4
22	W	83	TRP	2.4
26	AA	70	PRO	2.4
5	E	33	GLY	2.4
25	Z	122	GLY	2.4
38	CF	190	GLY	2.4
48	v	158	HIS	2.4
73	d6	80	HIS	2.4
5	s3	11	LEU	2.4
12	L	2	LEU	2.4
14	c3	103	GLU	2.4
24	Y	133	LEU	2.4
68	DQ	104	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
79	h	33	LEU	2.4
3	s1	20	VAL	2.4
5	E	206	VAL	2.4
6	F	227	VAL	2.4
35	AR	2504	U	2.4
11	K	134	ILE	2.4
11	s9	167	ALA	2.4
12	c0	45	ALA	2.4
21	V	24	ILE	2.4
21	d0	19	ILE	2.4
30	AD	100	ILE	2.4
33	CE	144	ILE	2.4
44	CL	221	ALA	2.4
58	CZ	139	ILE	2.4
79	h	253	ALA	2.4
79	Rb	119	ALA	2.4
11	K	51	LYS	2.4
13	c1	115	PHE	2.4
15	c4	14	PHE	2.4
17	R	138	PHE	2.4
21	V	21	LYS	2.4
24	Y	82	LYS	2.4
43	CK	138	THR	2.4
47	CO	118	PHE	2.4
54	2	3	LYS	2.4
54	CV	19	PHE	2.4
74	c	44	THR	2.4
79	Rb	300	THR	2.4
1	A	736	C	2.4
1	A	1615	C	2.4
1	sR	25	C	2.4
9	I	173	TYR	2.4
35	1	1192	C	2.4
2	s0	185	ARG	2.4
3	C	115	ARG	2.4
6	s4	187	ARG	2.4
7	s5	76	ARG	2.4
29	AC	14	ARG	2.4
33	k	332	ARG	2.4
33	k	369	ARG	2.4
31	j	47	GLN	2.4
67	AO	24	SER	2.4

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Mol	Chain	Res	Type	RSRZ
79	Rb	35	SER	2.4
79	Rb	52	GLN	2.4
4	D	239	PRO	2.4
4	s2	85	PRO	2.4
35	AR	2403	G	2.4
75	d8	6	PRO	2.4
3	C	29	TRP	2.4
2	s0	168	HIS	2.4
5	E	176	LEU	2.4
6	s4	164	LEU	2.4
7	G	124	LEU	2.4
22	W	78	LEU	2.4
28	AB	114	GLY	2.4
32	DF	4	LEU	2.4
42	p	37	GLY	2.4
52	z	89	LEU	2.4
75	d8	33	LEU	2.4
25	Z	129	VAL	2.4
55	CW	66	VAL	2.4
59	AG	22	VAL	2.4
72	d5	62	VAL	2.4
75	d	28	VAL	2.4
79	h	56	VAL	2.4
79	Rb	98	GLU	2.4
1	A	678	A	2.4
2	s0	98	ILE	2.4
7	s5	177	ILE	2.4
22	W	23	ILE	2.4
35	1	979	U	2.4
35	1	2996	U	2.4
64	DM	27	ILE	2.4
66	DO	78	ILE	2.4
79	Rb	136	ILE	2.4
5	E	153	ALA	2.4
5	s3	185	LYS	2.4
20	U	38	LYS	2.4
25	Z	126	ALA	2.4
28	DC	134	ALA	2.4
39	CG	2	ALA	2.4
40	CH	97	ASN	2.4
42	p	240	ASN	2.4
44	CL	101	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
45	s	174	LYS	2.4
46	t	148	ALA	2.4
46	CN	135	ALA	2.4
58	CZ	45	LYS	2.4
58	CZ	109	LYS	2.4
66	DO	114	LYS	2.4
68	AP	78	LYS	2.4
79	Rb	244	ALA	2.4
5	E	17	PHE	2.4
7	s5	43	PHE	2.4
24	d3	38	PHE	2.4
42	CJ	78	PHE	2.4
5	E	46	THR	2.4
5	E	70	THR	2.4
13	M	78	THR	2.4
62	AJ	2	THR	2.4
66	AN	108	THR	2.4
69	DR	56	THR	2.4
17	c6	92	TYR	2.4
58	8	141	TYR	2.4
77	f	35	TYR	2.4
16	c5	127	ARG	2.4
17	R	114	ARG	2.4
22	d1	71	ARG	2.4
27	DA	40	ARG	2.4
59	DH	60	ARG	2.4
35	1	1201	C	2.4
35	AR	1192	C	2.4
25	Z	106	GLN	2.4
7	G	28	PRO	2.4
7	s5	164	PRO	2.4
2	B	153	SER	2.4
22	W	61	SER	2.4
30	DE	97	ASP	2.4
31	CD	99	GLY	2.4
33	k	310	GLY	2.4
38	l	106	TRP	2.4
39	CG	236	LEU	2.4
42	CJ	214	LEU	2.4
45	CM	158	ASP	2.4
72	a	67	ASP	2.4
73	b	88	SER	2.4

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Mol	Chain	Res	Type	RSRZ
3	s1	218	LEU	2.4
6	F	207	LEU	2.4
8	H	75	LEU	2.4
13	M	91	LEU	2.4
19	c8	129	TRP	2.4
27	DA	6	LEU	2.4
27	DA	118	LEU	2.4
27	9	126	LEU	2.4
79	h	92	TRP	2.4
79	h	234	LEU	2.4
24	Y	18	HIS	2.4
51	CS	158	HIS	2.4
52	CT	129	GLY	2.4
54	CV	79	MET	2.4
63	AK	69	HIS	2.4
11	K	83	VAL	2.4
15	P	81	VAL	2.4
16	Q	105	VAL	2.4
20	U	6	VAL	2.4
23	X	25	VAL	2.4
33	k	227	GLU	2.4
57	7	22	VAL	2.4
61	AI	8	GLU	2.4
71	p0	105	VAL	2.4
4	D	115	ILE	2.4
7	G	172	ILE	2.4
10	s8	17	LYS	2.4
14	c3	70	LYS	2.4
24	Y	30	LYS	2.4
29	AC	21	ILE	2.4
29	AC	28	LYS	2.4
39	m	58	LYS	2.4
62	DK	9	ILE	2.4
73	b	30	ILE	2.4
5	s3	88	ALA	2.4
10	J	148	ALA	2.4
10	s8	79	ALA	2.4
17	c6	86	ALA	2.4
42	CJ	39	ALA	2.4
48	v	166	ALA	2.4
78	e1	152	ALA	2.4
1	sR	470	A	2.4

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Mol	Chain	Res	Type	RSRZ
35	AR	1567	U	2.4
62	AJ	80	PHE	2.4
34	DG	73	THR	2.4
39	m	275	THR	2.4
74	c	65	THR	2.4
10	J	8	ARG	2.4
10	s8	49	ARG	2.4
28	AB	48	TYR	2.4
29	DD	40	ARG	2.4
38	l	50	TYR	2.4
43	CK	3	TYR	2.4
8	s6	190	GLN	2.4
19	c8	74	GLN	2.4
58	CZ	65	GLN	2.4
20	U	105	LEU	2.4
26	DB	5	LEU	2.4
27	DA	57	LEU	2.4
42	CJ	93	LEU	2.4
57	CY	109	LEU	2.4
63	AK	67	LEU	2.4
16	c5	49	MET	2.4
8	s6	82	SER	2.4
9	s7	30	SER	2.4
10	J	4	SER	2.4
21	d0	111	GLY	2.4
24	Y	47	SER	2.4
42	p	247	ASP	2.4
49	CQ	189	ASP	2.4
70	i	92	ASP	2.4
8	s6	157	VAL	2.4
20	U	71	VAL	2.4
25	d4	57	VAL	2.4
45	CM	171	VAL	2.4
51	y	186	VAL	2.4
63	AK	70	VAL	2.4
73	d6	45	VAL	2.4
2	B	167	LYS	2.4
30	DE	22	LYS	2.4
40	n	8	LYS	2.4
48	v	104	GLU	2.4
4	D	137	ILE	2.4
9	I	8	ILE	2.4

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Mol	Chain	Res	Type	RSRZ
13	M	122	ILE	2.4
48	CP	184	LYS	2.4
76	e	50	ILE	2.4
10	s8	109	PHE	2.4
12	c0	16	PHE	2.4
16	Q	45	PHE	2.4
26	DB	92	PHE	2.4
31	CD	78	ALA	2.4
54	2	24	ALA	2.4
61	AI	120	ALA	2.4
73	d6	40	ALA	2.4
1	sR	1164	G	2.4
4	s2	91	ARG	2.4
6	F	145	ARG	2.4
7	s5	157	ARG	2.4
8	H	186	ARG	2.4
17	R	70	THR	2.4
19	T	44	ASN	2.4
23	X	90	THR	2.4
35	AR	494	G	2.4
39	m	50	ARG	2.4
57	CY	83	THR	2.4
57	CY	94	ARG	2.4
65	DN	20	ASN	2.4
70	sM	50	ASN	2.4
8	s6	208	TYR	2.3
2	B	149	LEU	2.3
3	C	70	LEU	2.3
5	s3	220	PRO	2.3
9	s7	63	PRO	2.3
17	R	52	LEU	2.3
18	S	73	LEU	2.3
20	c9	31	PRO	2.3
23	X	93	LEU	2.3
33	CE	161	LEU	2.3
64	DM	78	LEU	2.3
78	g	124	PRO	2.3
7	s5	99	MET	2.3
25	Z	22	GLN	2.3
3	s1	101	HIS	2.3
2	B	129	ASP	2.3
6	s4	202	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
7	s5	220	VAL	2.3
10	s8	69	SER	2.3
11	s9	96	VAL	2.3
14	O	107	LYS	2.3
24	Y	96	VAL	2.3
41	o	84	VAL	2.3
53	0	134	ASP	2.3
56	6	126	TRP	2.3
60	AH	85	VAL	2.3
67	DP	19	LYS	2.3
69	AQ	6	LYS	2.3
70	sM	41	SER	2.3
79	h	8	VAL	2.3
79	Rb	251	TRP	2.3
4	s2	115	ILE	2.3
7	s5	130	ILE	2.3
9	s7	60	ILE	2.3
38	l	63	GLU	2.3
48	CP	61	ILE	2.3
50	x	67	ILE	2.3
54	2	42	ILE	2.3
73	d6	90	GLU	2.3
76	e	38	ILE	2.3
35	1	2330	C	2.3
35	AR	2772	C	2.3
37	AT	84	C	2.3
5	E	201	ALA	2.3
6	F	177	ALA	2.3
6	s4	28	ALA	2.3
9	I	61	PHE	2.3
11	K	71	PHE	2.3
12	c0	30	ALA	2.3
13	M	42	PHE	2.3
15	P	40	ALA	2.3
16	c5	133	ALA	2.3
26	DB	4	PHE	2.3
39	m	55	PHE	2.3
51	CS	96	PHE	2.3
69	DR	51	ALA	2.3
70	i	90	ALA	2.3
79	Rb	172	ALA	2.3
8	H	215	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
24	Y	7	ARG	2.3
24	Y	20	ARG	2.3
45	s	10	ARG	2.3
60	DI	9	ARG	2.3
62	DK	68	ARG	2.3
7	s5	138	THR	2.3
26	DB	66	THR	2.3
28	AB	74	ASN	2.3
38	l	18	ASN	2.3
51	CS	6	THR	2.3
60	AH	71	THR	2.3
64	AL	6	THR	2.3
35	AR	979	U	2.3
4	s2	148	LEU	2.3
8	H	169	TYR	2.3
12	c0	40	LEU	2.3
16	Q	89	MET	2.3
22	W	55	LEU	2.3
41	o	217	PRO	2.3
62	AJ	60	LEU	2.3
72	d5	80	LEU	2.3
1	sR	1371	A	2.3
7	s5	158	GLN	2.3
44	r	220	GLN	2.3
52	z	92	GLN	2.3
16	Q	48	GLY	2.3
24	Y	31	LYS	2.3
38	l	79	GLY	2.3
45	s	13	LYS	2.3
57	CY	12	LYS	2.3
70	sM	56	GLY	2.3
79	h	97	GLY	2.3
8	H	179	VAL	2.3
9	s7	136	VAL	2.3
21	d0	65	ILE	2.3
28	DC	118	ILE	2.3
79	Rb	134	TRP	2.3
8	s6	91	GLU	2.3
9	s7	103	SER	2.3
13	c1	9	SER	2.3
15	P	34	SER	2.3
16	c5	16	SER	2.3

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Mol	Chain	Res	Type	RSRZ
22	d1	56	SER	2.3
31	CD	18	SER	2.3
63	AK	46	SER	2.3
79	Rb	44	SER	2.3
13	M	60	PHE	2.3
57	CY	103	ALA	2.3
5	E	143	ARG	2.3
8	s6	142	ARG	2.3
58	8	27	ARG	2.3
67	DP	17	ARG	2.3
71	p0	60	ARG	2.3
76	d9	12	ARG	2.3
1	sR	934	C	2.3
35	AR	893	C	2.3
12	L	90	THR	2.3
15	c4	91	THR	2.3
17	R	115	THR	2.3
3	C	49	ASN	2.3
7	G	58	LEU	2.3
11	s9	93	LEU	2.3
22	W	11	LEU	2.3
1	A	1286	U	2.3
6	F	152	PRO	2.3
23	X	72	CYS	2.3
38	CF	316	ASN	2.3
40	CH	173	MET	2.3
44	CL	60	LEU	2.3
55	CW	101	ASN	2.3
61	DJ	59	ASN	2.3
70	i	40	PRO	2.3
70	i	44	PRO	2.3
38	CF	194	TYR	2.3
2	s0	83	GLN	2.3
4	D	161	LYS	2.3
4	s2	88	LYS	2.3
5	E	74	GLN	2.3
13	M	43	LYS	2.3
14	O	62	GLN	2.3
26	AA	3	LYS	2.3
27	DA	87	LYS	2.3
51	y	8	LYS	2.3
74	d7	26	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
75	d8	27	GLN	2.3
77	f	28	LYS	2.3
1	A	1143	A	2.3
1	sR	1707	A	2.3
2	B	29	VAL	2.3
2	s0	86	VAL	2.3
16	c5	105	VAL	2.3
28	DC	54	GLY	2.3
31	CD	121	GLY	2.3
31	CD	230	VAL	2.3
32	DF	45	GLY	2.3
37	AT	80	A	2.3
56	6	136	VAL	2.3
60	AH	22	VAL	2.3
73	d6	84	VAL	2.3
6	F	45	ILE	2.3
9	s7	181	ILE	2.3
11	K	45	ILE	2.3
12	L	43	ILE	2.3
54	CV	160	ILE	2.3
69	DR	83	ILE	2.3
79	h	260	ILE	2.3
79	Rb	313	TRP	2.3
2	B	206	ASP	2.3
6	F	205	PHE	2.3
11	s9	146	PHE	2.3
31	j	73	GLU	2.3
46	CN	145	PHE	2.3
68	DQ	106	PHE	2.3
4	D	183	ALA	2.3
7	s5	96	SER	2.3
10	s8	170	SER	2.3
13	M	77	SER	2.3
14	c3	63	ALA	2.3
16	c5	131	ALA	2.3
33	k	250	ALA	2.3
34	AF	67	SER	2.3
39	CG	233	ALA	2.3
42	p	121	SER	2.3
45	s	76	ALA	2.3
45	s	151	SER	2.3
46	t	87	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
54	2	125	ALA	2.3
70	i	141	ALA	2.3
75	d8	21	SER	2.3
79	Rb	51	ASP	2.3
18	c7	95	ARG	2.3
19	c8	123	ARG	2.3
5	E	11	LEU	2.3
9	I	126	LEU	2.3
11	s9	99	LEU	2.3
12	c0	2	LEU	2.3
15	c4	46	MET	2.3
27	DA	31	LEU	2.3
43	CK	38	LEU	2.3
49	CQ	27	LEU	2.3
54	CV	31	LEU	2.3
58	CZ	57	LEU	2.3
58	CZ	113	LEU	2.3
62	DK	57	LEU	2.3
79	h	225	LEU	2.3
46	CN	152	THR	2.3
77	f	48	THR	2.3
1	sR	1426	C	2.3
1	sR	1686	C	2.3
24	Y	6	PRO	2.3
70	i	52	PRO	2.3
3	C	55	LYS	2.3
10	s8	200	LYS	2.3
28	AB	77	LYS	2.3
30	AD	38	LYS	2.3
32	DF	5	LYS	2.3
44	CL	23	ASN	2.3
79	Rb	46	LYS	2.3
6	s4	54	TYR	2.3
12	c0	66	TYR	2.3
15	c4	58	TYR	2.3
35	AR	1885	U	2.3
63	AK	47	TYR	2.3
3	C	92	GLN	2.3
7	s5	35	GLN	2.3
2	s0	25	GLY	2.3
3	C	212	VAL	2.3
6	F	111	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
7	s5	121	ILE	2.3
11	K	101	VAL	2.3
19	c8	124	GLY	2.3
20	U	37	VAL	2.3
27	DA	56	VAL	2.3
33	CE	141	GLY	2.3
42	p	75	ILE	2.3
43	q	12	VAL	2.3
43	CK	60	GLY	2.3
43	q	134	ILE	2.3
47	u	122	VAL	2.3
62	AJ	58	ILE	2.3
72	a	71	ILE	2.3
72	d5	92	ILE	2.3
1	sR	218	A	2.3
1	sR	1425	A	2.3
23	d2	37	PHE	2.3
33	k	365	PHE	2.3
49	CQ	80	PHE	2.3
51	CS	94	PHE	2.3
2	B	19	ALA	2.3
7	G	92	ARG	2.3
11	K	31	ALA	2.3
11	s9	4	ALA	2.3
15	P	17	ALA	2.3
18	c7	39	ALA	2.3
23	X	8	ALA	2.3
26	DB	2	ALA	2.3
33	CE	244	ARG	2.3
39	m	77	ALA	2.3
46	CN	60	ALA	2.3
53	CU	133	ALA	2.3
57	CY	123	ARG	2.3
59	DH	2	ALA	2.3
61	DJ	8	GLU	2.3
62	AJ	68	ARG	2.3
62	DK	62	ARG	2.3
64	DM	59	ALA	2.3
6	F	176	ASP	2.3
6	s4	93	ASP	2.3
18	S	96	SER	2.3
23	d2	85	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
42	CJ	207	ASP	2.3
59	DH	56	SER	2.3
75	d	21	SER	2.3
14	c3	72	MET	2.3
1	A	1616	G	2.3
1	sR	913	G	2.3
6	F	180	LEU	2.3
9	I	166	LEU	2.3
9	s7	93	LEU	2.3
13	M	40	LEU	2.3
15	P	102	LEU	2.3
23	X	126	LEU	2.3
35	1	1024	G	2.3
64	DM	14	LEU	2.3
7	s5	125	THR	2.3
12	L	38	LYS	2.3
13	c1	15	LYS	2.3
15	P	122	PRO	2.3
16	Q	109	PRO	2.3
16	c5	53	PRO	2.3
24	Y	114	LYS	2.3
52	CT	19	LYS	2.3
50	CR	120	ASN	2.2
12	L	66	TYR	2.2
1	A	77	U	2.2
1	A	1470	C	2.2
2	B	63	ILE	2.2
2	s0	170	ILE	2.2
4	s2	53	ILE	2.2
12	L	86	ILE	2.2
13	c1	128	CYS	2.2
15	c4	35	GLY	2.2
17	c6	63	ILE	2.2
21	d0	116	VAL	2.2
23	X	83	ILE	2.2
24	Y	77	ILE	2.2
25	Z	65	GLY	2.2
30	AD	23	TYR	2.2
30	AD	58	TYR	2.2
33	CE	310	GLY	2.2
33	k	114	VAL	2.2
33	k	188	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
39	m	127	GLY	2.2
39	CG	286	VAL	2.2
35	AR	981	U	2.2
39	CG	290	ILE	2.2
42	CJ	75	ILE	2.2
43	q	165	CYS	2.2
50	x	157	VAL	2.2
53	0	138	GLN	2.2
62	DK	93	ILE	2.2
65	DN	4	GLN	2.2
70	sM	67	GLY	2.2
74	d7	2	VAL	2.2
77	f	45	VAL	2.2
78	e1	148	TYR	2.2
26	DB	136	PHE	2.2
4	s2	118	ALA	2.2
7	s5	225	ARG	2.2
8	H	224	ALA	2.2
14	c3	104	ARG	2.2
38	CF	242	ALA	2.2
42	CJ	199	ALA	2.2
46	t	15	ARG	2.2
46	CN	193	ALA	2.2
57	CY	111	ALA	2.2
75	d8	22	ARG	2.2
79	Rb	45	TRP	2.2
33	CE	261	MET	2.2
35	1	2401	A	2.2
2	B	128	SER	2.2
3	C	172	LEU	2.2
3	C	181	LEU	2.2
5	E	166	ASP	2.2
6	s4	171	ASP	2.2
9	I	129	LEU	2.2
17	c6	38	LEU	2.2
41	CI	202	LEU	2.2
43	q	52	LEU	2.2
43	CK	22	SER	2.2
54	CV	18	ASP	2.2
70	i	55	SER	2.2
73	b	53	LEU	2.2
4	D	203	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
38	l	338	LYS	2.2
39	m	43	LYS	2.2
42	p	181	LYS	2.2
47	u	25	LYS	2.2
54	2	60	LYS	2.2
60	DI	36	LYS	2.2
8	s6	86	PRO	2.2
14	O	17	PRO	2.2
45	CM	8	PRO	2.2
61	DJ	39	PRO	2.2
2	B	124	THR	2.2
31	CD	243	THR	2.2
61	AI	85	THR	2.2
61	DJ	85	THR	2.2
2	s0	50	VAL	2.2
5	E	181	VAL	2.2
6	F	34	GLY	2.2
9	I	135	ILE	2.2
9	I	181	ILE	2.2
12	c0	41	TYR	2.2
13	M	35	TYR	2.2
16	c5	48	GLY	2.2
18	S	101	ASN	2.2
23	X	75	ILE	2.2
23	X	103	ILE	2.2
23	X	129	VAL	2.2
30	DE	21	GLY	2.2
37	4	51	G	2.2
55	5	11	ILE	2.2
55	CW	65	VAL	2.2
75	d8	12	VAL	2.2
79	Rb	6	VAL	2.2
78	g	93	HIS	2.2
74	c	64	CYS	2.2
35	AR	1572	U	2.2
5	E	190	ARG	2.2
51	y	94	PHE	2.2
69	DR	80	ARG	2.2
73	d6	15	ARG	2.2
76	e	52	PHE	2.2
76	d9	52	PHE	2.2
35	1	2101	C	2.2

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Mol	Chain	Res	Type	RSRZ
16	c5	54	ALA	2.2
52	CT	131	ALA	2.2
8	H	1	MET	2.2
21	V	79	TRP	2.2
5	E	4	LEU	2.2
7	s5	175	LEU	2.2
10	s8	193	LEU	2.2
11	K	99	LEU	2.2
16	Q	36	LEU	2.2
23	X	26	LEU	2.2
26	AA	81	LEU	2.2
31	CD	180	LEU	2.2
64	AL	31	LEU	2.2
64	DM	73	LEU	2.2
6	F	62	LYS	2.2
26	AA	111	LYS	2.2
44	r	203	LYS	2.2
48	v	192	LYS	2.2
56	6	66	LYS	2.2
7	s5	206	SER	2.2
15	P	125	SER	2.2
35	AR	1482	A	2.2
49	CQ	21	SER	2.2
15	P	57	PRO	2.2
18	S	55	THR	2.2
77	e0	48	THR	2.2
4	D	103	VAL	2.2
6	s4	90	ILE	2.2
11	s9	134	ILE	2.2
15	P	83	ILE	2.2
13	M	39	GLY	2.2
18	S	110	VAL	2.2
19	c8	22	VAL	2.2
25	Z	13	ILE	2.2
3	C	101	HIS	2.2
4	D	145	GLY	2.2
5	s3	183	GLY	2.2
24	Y	4	GLY	2.2
24	Y	130	VAL	2.2
25	Z	100	VAL	2.2
26	DB	53	VAL	2.2
54	CV	96	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
58	8	142	ILE	2.2
56	6	43	GLY	2.2
59	AG	61	GLY	2.2
61	DJ	72	GLY	2.2
70	sM	76	VAL	2.2
79	Rb	104	VAL	2.2
41	o	159	GLN	2.2
53	0	157	GLN	2.2
57	CY	79	GLN	2.2
61	AI	62	GLN	2.2
12	L	63	TYR	2.2
13	c1	106	ASN	2.2
44	r	23	ASN	2.2
76	e	34	TYR	2.2
78	g	148	TYR	2.2
7	s5	156	ARG	2.2
11	K	3	ARG	2.2
11	s9	47	PHE	2.2
17	c6	109	PHE	2.2
25	d4	23	PHE	2.2
26	DB	101	PHE	2.2
31	CD	16	PHE	2.2
48	v	203	ARG	2.2
48	CP	143	ARG	2.2
71	p0	5	ARG	2.2
76	e	13	ARG	2.2
77	e0	37	ARG	2.2
79	Rb	61	PHE	2.2
1	A	987	G	2.2
8	H	221	ALA	2.2
17	c6	3	ALA	2.2
35	1	1354	G	2.2
47	u	138	ALA	2.2
54	CV	104	GLU	2.2
5	E	110	LEU	2.2
12	L	49	LEU	2.2
17	R	38	LEU	2.2
22	W	8	LEU	2.2
28	AB	79	TRP	2.2
51	CS	166	LEU	2.2
53	CU	42	TRP	2.2
1	A	1426	C	2.2

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Mol	Chain	Res	Type	RSRZ
8	s6	187	LYS	2.2
35	1	1196	C	2.2
40	CH	20	LYS	2.2
58	8	49	LYS	2.2
60	DI	19	LYS	2.2
2	B	4	PRO	2.2
19	c8	97	ASP	2.2
64	DM	71	PRO	2.2
73	d6	98	PRO	2.2
78	e1	137	ASP	2.2
79	h	163	ASP	2.2
5	E	97	SER	2.2
38	CF	184	SER	2.2
53	0	85	SER	2.2
79	h	60	SER	2.2
1	sR	579	A	2.2
6	F	102	VAL	2.2
6	F	192	ILE	2.2
20	U	34	VAL	2.2
20	U	116	ILE	2.2
31	CD	41	ILE	2.2
31	j	98	VAL	2.2
33	CE	346	THR	2.2
46	t	123	ILE	2.2
47	u	58	ILE	2.2
52	CT	55	VAL	2.2
54	2	75	ILE	2.2
58	CZ	28	THR	2.2
64	DM	72	THR	2.2
77	f	47	VAL	2.2
78	g	98	VAL	2.2
2	B	51	GLY	2.2
33	CE	368	GLY	2.2
56	CX	20	GLY	2.2
73	d6	9	GLY	2.2
75	d	17	GLY	2.2
41	o	225	GLN	2.2
57	CY	58	HIS	2.2
65	DN	11	GLN	2.2
2	B	138	TYR	2.2
3	C	209	ASN	2.2
3	s1	111	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
5	E	107	PHE	2.2
7	s5	166	ARG	2.2
10	J	65	PHE	2.2
10	J	88	ASN	2.2
17	R	66	ARG	2.2
30	DE	70	PHE	2.2
32	DF	31	ARG	2.2
46	t	174	ARG	2.2
57	CY	23	ARG	2.2
63	DL	65	ARG	2.2
68	AP	18	ARG	2.2
68	AP	58	PHE	2.2
68	DQ	36	PHE	2.2
71	p0	66	PHE	2.2
71	p0	191	TYR	2.2
73	b	59	TYR	2.2
75	d8	32	PHE	2.2
11	K	4	ALA	2.2
11	K	119	ALA	2.2
14	O	7	ALA	2.2
17	R	134	ALA	2.2
31	CD	235	ALA	2.2
32	AE	101	ALA	2.2
34	DG	2	ALA	2.2
39	m	98	ALA	2.2
39	CG	291	ALA	2.2
54	CV	44	ALA	2.2
79	h	180	ALA	2.2
79	Rb	253	ALA	2.2
1	A	75	U	2.2
1	A	240	U	2.2
4	D	208	GLU	2.2
7	s5	213	LYS	2.2
8	H	166	GLU	2.2
9	s7	179	LYS	2.2
11	K	68	LYS	2.2
12	c0	24	LYS	2.2
15	c4	62	LEU	2.2
16	c5	13	LYS	2.2
19	T	101	LEU	2.2
33	k	178	LEU	2.2
38	CF	186	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
49	w	27	LEU	2.2
56	6	46	LEU	2.2
56	CX	69	LEU	2.2
57	CY	60	LYS	2.2
74	c	33	LEU	2.2
24	Y	24	TRP	2.2
39	m	95	TRP	2.2
1	A	641	G	2.2
1	sR	373	G	2.2
2	B	126	PRO	2.2
12	L	4	PRO	2.2
13	c1	130	PRO	2.2
1	A	13	C	2.2
7	s5	161	ASP	2.2
17	c6	64	ASP	2.2
18	c7	36	ASP	2.2
10	s8	149	SER	2.2
31	CD	48	ILE	2.2
58	CZ	81	ILE	2.2
79	Rb	122	ILE	2.2
79	Rb	166	SER	2.2
2	s0	181	VAL	2.2
3	C	20	VAL	2.2
3	s1	212	VAL	2.2
5	E	164	VAL	2.2
5	s3	138	VAL	2.2
6	s4	225	VAL	2.2
8	H	67	VAL	2.2
9	s7	73	VAL	2.2
11	K	141	VAL	2.2
13	M	64	VAL	2.2
19	c8	5	VAL	2.2
21	V	100	VAL	2.2
24	d3	127	VAL	2.2
39	m	144	VAL	2.2
79	Rb	312	VAL	2.2
13	c1	62	GLY	2.1
13	c1	134	THR	2.1
16	c5	117	GLY	2.1
19	T	20	THR	2.1
21	V	25	THR	2.1
25	d4	9	THR	2.1

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Mol	Chain	Res	Type	RSRZ
45	CM	147	THR	2.1
63	AK	60	GLY	2.1
71	p0	85	GLY	2.1
73	b	16	GLY	2.1
76	e	28	THR	2.1
79	h	72	THR	2.1
79	h	88	THR	2.1
6	F	252	ARG	2.1
11	K	62	ARG	2.1
35	1	2580	A	2.1
35	AR	747	A	2.1
50	CR	55	GLN	2.1
79	Rb	29	GLN	2.1
79	Rb	100	TYR	2.1
7	G	79	ASN	2.1
3	C	109	LYS	2.1
5	E	88	ALA	2.1
6	s4	7	LYS	2.1
10	s8	198	ALA	2.1
13	M	5	LEU	2.1
13	c1	48	ALA	2.1
16	c5	36	LEU	2.1
17	c6	54	LEU	2.1
18	S	12	ALA	2.1
23	d2	80	ASN	2.1
23	X	88	LYS	2.1
24	d3	132	LEU	2.1
29	AC	57	ALA	2.1
32	DF	38	LYS	2.1
38	l	24	ALA	2.1
39	m	100	ALA	2.1
42	p	152	LEU	2.1
44	r	118	ALA	2.1
50	x	44	ALA	2.1
57	7	45	ASN	2.1
53	0	166	LYS	2.1
55	5	74	LYS	2.1
60	AH	37	LYS	2.1
71	p0	76	LEU	2.1
71	p0	277	LEU	2.1
74	c	12	ALA	2.1
77	f	20	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
78	g	96	LYS	2.1
78	e1	132	LEU	2.1
79	h	9	LEU	2.1
79	Rb	80	ALA	2.1
8	s6	150	GLU	2.1
21	V	115	GLU	2.1
32	DF	82	GLU	2.1
53	0	104	GLU	2.1
1	sR	795	U	2.1
35	1	1356	U	2.1
2	B	207	PRO	2.1
57	CY	81	PRO	2.1
73	d6	97	PRO	2.1
2	s0	64	ILE	2.1
8	s6	18	ILE	2.1
9	s7	46	ILE	2.1
19	c8	35	ILE	2.1
20	U	124	ILE	2.1
44	r	99	ILE	2.1
6	F	208	VAL	2.1
8	H	81	VAL	2.1
16	c5	21	ASP	2.1
17	R	19	VAL	2.1
18	S	85	VAL	2.1
19	c8	4	VAL	2.1
20	c9	8	ASP	2.1
28	AB	46	ASP	2.1
54	2	74	VAL	2.1
71	p0	188	VAL	2.1
79	h	58	VAL	2.1
21	V	28	SER	2.1
5	E	174	HIS	2.1
11	s9	61	THR	2.1
20	U	64	HIS	2.1
21	d0	25	THR	2.1
25	d4	59	GLY	2.1
39	CG	295	GLY	2.1
54	CV	71	SER	2.1
62	AJ	64	SER	2.1
11	s9	168	ARG	2.1
33	k	232	ARG	2.1
35	AR	2503	G	2.1

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Mol	Chain	Res	Type	RSRZ
35	AR	3154	C	2.1
42	p	57	ARG	2.1
42	p	194	THR	2.1
42	CJ	188	THR	2.1
45	s	152	HIS	2.1
47	CO	130	THR	2.1
50	x	181	ARG	2.1
52	z	58	HIS	2.1
53	CU	3	HIS	2.1
60	AH	31	ARG	2.1
61	DJ	101	THR	2.1
63	DL	69	HIS	2.1
76	e	19	ARG	2.1
78	g	118	ARG	2.1
5	s3	25	PHE	2.1
17	c6	129	PHE	2.1
42	p	78	PHE	2.1
42	p	123	GLN	2.1
57	7	21	PHE	2.1
67	AO	1	MET	2.1
75	d	32	PHE	2.1
2	s0	184	LEU	2.1
3	C	96	LEU	2.1
5	E	145	ALA	2.1
6	F	9	LEU	2.1
9	s7	126	LEU	2.1
9	s7	153	LEU	2.1
10	J	23	LYS	2.1
10	J	200	LYS	2.1
14	O	90	TYR	2.1
20	c9	92	LYS	2.1
20	c9	103	LYS	2.1
15	c4	50	ALA	2.1
23	d2	52	TYR	2.1
42	CJ	251	LYS	2.1
47	CO	68	LEU	2.1
48	CP	30	TYR	2.1
50	x	130	TYR	2.1
53	0	158	LYS	2.1
61	DJ	88	LEU	2.1
65	AM	18	LYS	2.1
68	AP	15	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
69	AQ	22	LEU	2.1
71	p0	7	LYS	2.1
76	d9	33	LYS	2.1
25	Z	33	ALA	2.1
42	CJ	103	ALA	2.1
42	CJ	148	ALA	2.1
44	r	68	ALA	2.1
74	d7	53	ALA	2.1
79	h	95	ALA	2.1
79	Rb	81	LEU	2.1
3	C	95	ASN	2.1
8	H	140	ASN	2.1
51	y	145	ASN	2.1
11	s9	102	GLU	2.1
12	L	34	GLU	2.1
33	CE	316	GLU	2.1
38	CF	63	GLU	2.1
49	w	106	GLU	2.1
59	AG	3	GLU	2.1
1	A	794	U	2.1
1	sR	1413	U	2.1
5	s3	199	PRO	2.1
15	P	120	PRO	2.1
21	d0	59	PRO	2.1
35	AR	1095	U	2.1
35	AR	2205	U	2.1
79	Rb	30	PRO	2.1
3	C	171	ILE	2.1
5	E	158	ILE	2.1
21	d0	99	ILE	2.1
23	X	27	ILE	2.1
49	w	79	ILE	2.1
79	h	122	ILE	2.1
2	B	143	VAL	2.1
4	D	165	VAL	2.1
5	E	73	VAL	2.1
7	s5	23	VAL	2.1
8	H	41	VAL	2.1
17	c6	78	VAL	2.1
17	c6	90	VAL	2.1
51	CS	84	VAL	2.1
55	5	27	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
73	d6	50	VAL	2.1
5	E	198	GLY	2.1
11	s9	3	ARG	2.1
15	c4	131	GLY	2.1
19	T	91	ASP	2.1
21	d0	75	GLY	2.1
23	X	67	GLY	2.1
34	AF	39	ASP	2.1
49	w	59	ARG	2.1
54	2	81	GLY	2.1
54	CV	23	GLY	2.1
2	B	155	PHE	2.1
15	P	29	HIS	2.1
15	P	43	THR	2.1
19	c8	55	HIS	2.1
21	V	87	HIS	2.1
41	CI	113	SER	2.1
6	F	198	LYS	2.1
21	d0	52	LYS	2.1
24	Y	5	LYS	2.1
27	DA	81	GLN	2.1
40	CH	157	GLN	2.1
52	CT	133	LYS	2.1
54	2	103	GLN	2.1
75	d	14	LYS	2.1
26	AA	42	LEU	2.1
26	DB	80	LEU	2.1
45	CM	17	LEU	2.1
1	sR	321	C	2.1
1	sR	1159	C	2.1
2	s0	61	ALA	2.1
19	c8	121	ALA	2.1
32	AE	58	ALA	2.1
35	AR	2507	C	2.1
42	p	102	ALA	2.1
44	CL	2	ALA	2.1
44	CL	126	ALA	2.1
58	CZ	43	ALA	2.1
58	CZ	98	ALA	2.1
73	d6	6	ALA	2.1
74	d7	50	ALA	2.1
75	d8	63	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
3	s1	133	TYR	2.1
55	CW	36	TYR	2.1
79	Rb	281	TYR	2.1
79	Rb	305	TYR	2.1
1	A	1486	G	2.1
1	sR	651	G	2.1
35	1	1573	G	2.1
35	1	2522	G	2.1
35	AR	2115	G	2.1
7	G	181	GLU	2.1
13	c1	138	ASN	2.1
17	c6	40	GLU	2.1
18	S	37	GLU	2.1
23	X	51	GLU	2.1
32	AE	68	GLU	2.1
48	CP	90	ASN	2.1
53	CU	34	GLU	2.1
54	2	104	GLU	2.1
35	1	1893	A	2.1
35	AR	1566	A	2.1
35	AR	1571	A	2.1
17	c6	41	PRO	2.1
22	d1	83	TRP	2.1
2	B	173	ILE	2.1
14	c3	16	ILE	2.1
21	d0	91	ILE	2.1
22	d1	34	ILE	2.1
30	AD	43	ILE	2.1
39	m	62	CYS	2.1
51	CS	57	ILE	2.1
54	2	48	ILE	2.1
58	CZ	95	ILE	2.1
70	sM	61	ILE	2.1
1	A	192	U	2.1
35	1	1885	U	2.1
7	G	24	VAL	2.1
7	s5	53	VAL	2.1
9	I	20	VAL	2.1
12	L	42	VAL	2.1
15	c4	121	VAL	2.1
23	X	33	VAL	2.1
26	DB	14	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
34	DG	10	VAL	2.1
49	CQ	190	VAL	2.1
57	CY	100	VAL	2.1
64	DM	55	VAL	2.1
6	F	59	ARG	2.1
8	H	66	GLY	2.1
19	c8	115	ARG	2.1
21	d0	84	MET	2.1
22	W	63	GLY	2.1
24	Y	121	ARG	2.1
25	d4	124	ARG	2.1
48	v	50	ARG	2.1
54	CV	102	ARG	2.1
60	AH	74	ARG	2.1
73	b	9	GLY	2.1
75	d8	42	ARG	2.1
2	B	23	HIS	2.1
6	F	53	LYS	2.1
8	H	145	PHE	2.1
9	I	85	PHE	2.1
28	DC	115	LYS	2.1
38	l	247	PHE	2.1
47	u	133	LYS	2.1
51	CS	15	HIS	2.1
58	CZ	49	LYS	2.1
63	AK	57	HIS	2.1
3	C	119	THR	2.1
33	k	161	LEU	2.1
34	DG	4	LEU	2.1
38	l	103	THR	2.1
58	8	37	THR	2.1
62	AJ	57	LEU	2.1
64	AL	53	THR	2.1
64	DM	65	LEU	2.1
68	AP	79	THR	2.1
75	d8	19	THR	2.1
78	g	137	ASP	2.1
3	C	74	GLN	2.1
7	s5	37	GLN	2.1
10	J	96	LEU	2.1
18	S	70	SER	2.1
25	Z	28	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
38	l	61	SER	2.1
49	CQ	84	LEU	2.1
51	y	127	LEU	2.1
54	2	70	SER	2.1
76	e	18	SER	2.1
5	s3	144	ALA	2.1
7	s5	179	ALA	2.1
17	c6	16	ALA	2.1
20	c9	62	ALA	2.1
26	DB	11	ALA	2.1
29	AC	55	ALA	2.1
32	DF	58	ALA	2.1
32	DF	85	ALA	2.1
48	v	111	ALA	2.1
10	s8	83	TYR	2.1
45	CM	167	TYR	2.1
73	d6	73	TYR	2.1
1	A	237	C	2.1
17	R	125	GLU	2.1
35	1	1574	C	2.1
42	p	208	GLU	2.1
15	P	24	ASN	2.1
22	W	35	ASN	2.1
2	s0	35	PRO	2.1
20	U	2	PRO	2.1
11	s9	156	ILE	2.1
14	O	37	ILE	2.1
19	T	28	ILE	2.1
27	9	97	ILE	2.1
38	CF	74	ILE	2.1
54	2	160	ILE	2.1
76	d9	38	ILE	2.1
79	h	170	ILE	2.1
1	A	1635	A	2.1
1	sR	486	G	2.1
35	1	2165	G	2.1
4	D	101	VAL	2.1
13	c1	142	VAL	2.1
17	c6	69	VAL	2.1
24	Y	125	VAL	2.1
43	CK	75	VAL	2.1
49	CQ	16	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
57	7	67	VAL	2.1
79	h	71	CYS	2.1
6	F	87	MET	2.1
7	G	99	MET	2.1
43	q	90	MET	2.1
52	CT	9	ARG	2.1
57	CY	1	MET	2.1
1	sR	1491	U	2.1
68	AP	71	ARG	2.1
70	sM	53	ARG	2.1
8	H	165	GLY	2.1
10	J	174	GLY	2.1
12	L	89	GLY	2.1
16	c5	19	GLY	2.1
17	R	47	LYS	2.1
17	R	127	LYS	2.1
17	R	130	GLY	2.1
28	DC	108	GLY	2.1
31	CD	213	GLY	2.1
41	CI	53	LYS	2.1
48	v	72	LYS	2.1
49	w	66	LYS	2.1
76	e	51	GLY	2.1
79	Rb	118	LYS	2.1
6	s4	69	HIS	2.1
7	G	69	PHE	2.1
44	r	159	PHE	2.1
55	CW	107	PHE	2.1
9	s7	27	LEU	2.0
38	CF	187	LEU	2.0
43	q	176	LEU	2.0
44	r	200	LEU	2.0
55	5	37	LEU	2.0
56	6	69	LEU	2.0
58	8	57	LEU	2.0
79	Rb	210	LEU	2.0
4	s2	90	THR	2.0
8	H	152	ASP	2.0
9	I	123	ASP	2.0
9	s7	74	GLN	2.0
16	c5	14	THR	2.0
27	DA	11	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
32	AE	6	ASP	2.0
33	k	360	ASP	2.0
53	0	96	ASP	2.0
67	DP	10	THR	2.0
70	sM	77	THR	2.0
73	b	67	THR	2.0
78	g	109	ASP	2.0
7	G	210	ALA	2.0
14	O	144	ALA	2.0
21	V	38	SER	2.0
26	DB	44	ALA	2.0
27	DA	18	ALA	2.0
32	AE	85	ALA	2.0
33	CE	172	ALA	2.0
38	CF	232	SER	2.0
43	CK	66	ALA	2.0
46	t	40	ALA	2.0
53	0	164	SER	2.0
72	a	39	ALA	2.0
73	d6	96	ALA	2.0
75	d8	59	SER	2.0
5	E	34	TYR	2.0
39	CG	31	TYR	2.0
39	CG	207	TYR	2.0
55	5	33	TYR	2.0
58	8	54	TYR	2.0
73	d6	59	TYR	2.0
9	s7	95	GLU	2.0
16	c5	110	GLU	2.0
57	CY	119	GLU	2.0
4	D	83	ILE	2.0
8	s6	135	PRO	2.0
13	c1	19	ILE	2.0
15	c4	57	PRO	2.0
16	c5	85	ILE	2.0
39	CG	174	PRO	2.0
24	Y	79	ASN	2.0
39	CG	178	ASN	2.0
76	e	31	ILE	2.0
1	A	25	C	2.0
3	C	117	TRP	2.0
4	s2	103	VAL	2.0

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Mol	Chain	Res	Type	RSRZ
5	E	37	VAL	2.0
6	F	76	VAL	2.0
8	H	142	ARG	2.0
10	J	102	VAL	2.0
19	c8	46	VAL	2.0
20	U	30	VAL	2.0
33	CE	229	VAL	2.0
35	AR	3278	C	2.0
46	CN	138	VAL	2.0
48	v	135	VAL	2.0
51	CS	180	ARG	2.0
56	6	62	VAL	2.0
60	AH	9	ARG	2.0
62	AJ	56	ARG	2.0
67	AO	20	VAL	2.0
67	DP	6	ARG	2.0
67	DP	23	ARG	2.0
70	i	88	ARG	2.0
72	d5	60	VAL	2.0
4	D	119	LYS	2.0
24	Y	139	LYS	2.0
25	Z	128	LYS	2.0
40	n	170	LYS	2.0
71	p0	75	LYS	2.0
77	f	53	LYS	2.0
79	Rb	117	LYS	2.0
5	E	156	PHE	2.0
7	s5	20	PHE	2.0
7	s5	141	GLY	2.0
17	c6	27	GLY	2.0
20	c9	21	PHE	2.0
23	d2	59	GLY	2.0
31	j	99	GLY	2.0
32	DF	66	GLY	2.0
51	CS	121	CYS	2.0
63	DL	74	PHE	2.0
71	p0	3	GLY	2.0
12	c0	76	LEU	2.0
13	M	92	HIS	2.0
17	c6	57	LEU	2.0
32	AE	73	LEU	2.0
34	DG	75	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
35	1	331	G	2.0
35	1	1236	G	2.0
35	AR	1565	G	2.0
18	S	30	THR	2.0
21	d0	70	THR	2.0
32	AE	13	THR	2.0
10	J	13	ALA	2.0
10	J	167	ALA	2.0
12	L	23	ALA	2.0
39	m	7	ALA	2.0
39	m	151	GLN	2.0
42	p	210	ALA	2.0
48	v	40	ALA	2.0
69	AQ	32	GLN	2.0
33	CE	347	SER	2.0
40	CH	2	SER	2.0
73	b	29	SER	2.0
31	CD	34	TYR	2.0
33	k	6	TYR	2.0
39	m	44	TYR	2.0
41	o	136	TYR	2.0
3	C	23	PRO	2.0
3	s1	121	ILE	2.0
7	G	89	ILE	2.0
11	s9	144	PRO	2.0
18	S	86	PRO	2.0
20	c9	118	PRO	2.0
30	DE	42	ILE	2.0
30	DE	43	ILE	2.0
33	k	18	PRO	2.0
43	q	79	ILE	2.0
45	s	88	GLU	2.0
45	s	122	ILE	2.0
46	CN	20	GLU	2.0
49	w	40	GLU	2.0
51	CS	122	ILE	2.0
51	CS	165	ILE	2.0
55	CW	93	ILE	2.0
72	a	50	ILE	2.0
72	d5	78	ILE	2.0
74	c	62	ILE	2.0
75	d	47	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
13	M	80	MET	2.0
48	CP	117	ASN	2.0
76	e	37	ASN	2.0
77	e0	56	MET	2.0
13	M	141	LYS	2.0
17	c6	7	VAL	2.0
22	d1	62	ARG	2.0
28	DC	132	LYS	2.0
43	q	168	ARG	2.0
43	CK	2	LYS	2.0
48	v	140	LYS	2.0
79	h	156	VAL	2.0
42	CJ	52	TRP	2.0
2	B	3	LEU	2.0
5	s3	110	LEU	2.0
7	s5	69	PHE	2.0
14	c3	53	LEU	2.0
15	c4	97	GLY	2.0
21	d0	26	LEU	2.0
24	d3	119	GLY	2.0
28	AB	18	GLY	2.0
41	o	235	PHE	2.0
42	p	91	PHE	2.0
45	s	40	LEU	2.0
46	t	51	LEU	2.0
47	u	60	LEU	2.0
49	w	73	PHE	2.0
51	CS	140	LEU	2.0
68	AP	104	LEU	2.0
73	b	64	LEU	2.0
60	DI	84	CYS	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, 95^{th} percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	A	2095	1/1	-0.16	0.35	125,125,125,125	0
86	5XU	c0	201	5/5	0.07	0.19	150,152,155,156	0
81	MG	A	2045	1/1	0.08	0.22	127,127,127,127	0
81	MG	A	2077	1/1	0.33	0.56	101,101,101,101	0
81	MG	1	3992	1/1	0.34	0.29	114,114,114,114	0
81	MG	d4	203	1/1	0.43	0.22	77,77,77,77	0
81	MG	A	2094	1/1	0.43	0.20	118,118,118,118	0
81	MG	A	2062	1/1	0.45	0.39	95,95,95,95	0
81	MG	A	2073	1/1	0.47	0.27	92,92,92,92	0
81	MG	1	4061	1/1	0.48	0.26	75,75,75,75	0
81	MG	A	2035	1/1	0.49	0.32	107,107,107,107	0
86	5XU	c0	202	5/5	0.50	0.15	140,141,142,144	0
81	MG	s	300	1/1	0.51	0.17	97,97,97,97	0
81	MG	1	3920	1/1	0.51	0.59	116,116,116,116	0
81	MG	A	2032	1/1	0.52	0.32	102,102,102,102	0
81	MG	6	202	1/1	0.53	0.31	113,113,113,113	0
81	MG	1	3966	1/1	0.53	0.32	83,83,83,83	0
81	MG	A	2096	1/1	0.54	0.32	91,91,91,91	0
86	5XU	s3	301	5/5	0.54	0.14	147,149,150,151	0
81	MG	AR	3781	1/1	0.56	0.44	108,108,108,108	0
81	MG	AS	223	1/1	0.56	0.40	93,93,93,93	0
81	MG	1	3728	1/1	0.56	0.26	94,94,94,94	0
81	MG	1	4096	1/1	0.58	0.31	86,86,86,86	0
81	MG	sR	2166	1/1	0.58	0.29	77,77,77,77	0
81	MG	AR	3979	1/1	0.58	0.39	86,86,86,86	0
81	MG	1	4025	1/1	0.59	0.25	109,109,109,109	0
81	MG	CS	201	1/1	0.59	0.50	119,119,119,119	0
82	K	CK	204	1/1	0.59	0.25	131,131,131,131	0
81	MG	AR	4145	1/1	0.60	0.35	101,101,101,101	0
81	MG	1	3981	1/1	0.60	0.33	88,88,88,88	0
81	MG	AR	4074	1/1	0.60	0.24	80,80,80,80	0
81	MG	1	4016	1/1	0.61	0.27	59,59,59,59	0
81	MG	3	215	1/1	0.61	0.26	83,83,83,83	0
81	MG	A	2015	1/1	0.61	0.37	91,91,91,91	0
81	MG	1	3852	1/1	0.61	0.18	98,98,98,98	0
81	MG	AR	3892	1/1	0.62	0.27	77,77,77,77	0
81	MG	AR	4014	1/1	0.62	0.20	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	DC	202	1/1	0.63	0.25	78,78,78,78	0
80	OHX	4	238	7/7	0.63	0.16	180,196,203,286	0
80	OHX	A	2132	7/7	0.63	0.21	209,218,225,303	0
81	MG	A	2025	1/1	0.63	0.31	85,85,85,85	0
80	OHX	A	2159[B]	7/7	0.64	0.23	149,152,154,184	7
81	MG	A	2049	1/1	0.64	0.30	83,83,83,83	0
80	OHX	A	2159[A]	7/7	0.64	0.23	150,152,154,178	7
81	MG	sR	2168	1/1	0.64	0.43	87,87,87,87	0
80	OHX	sR	2026	7/7	0.64	0.17	207,214,222,304	0
81	MG	A	2000	1/1	0.64	0.19	66,66,66,66	0
81	MG	AR	4098	1/1	0.64	0.17	80,80,80,80	0
81	MG	AR	4099	1/1	0.64	0.35	87,87,87,87	0
81	MG	1	3851	1/1	0.64	0.23	73,73,73,73	0
80	OHX	AR	4227	7/7	0.65	0.19	215,220,224,311	0
81	MG	A	2081	1/1	0.65	0.34	104,104,104,104	0
81	MG	1	3950	1/1	0.65	0.18	79,79,79,79	0
80	OHX	sR	2019	7/7	0.65	0.18	225,230,240,317	0
80	OHX	4	214	7/7	0.65	0.13	216,225,228,328	0
81	MG	AR	4092	1/1	0.66	0.29	81,81,81,81	0
81	MG	AR	3947	1/1	0.66	0.36	60,60,60,60	0
81	MG	AR	3745	1/1	0.66	0.19	82,82,82,82	0
81	MG	AR	4003	1/1	0.66	0.46	107,107,107,107	0
81	MG	AR	4146	1/1	0.66	0.25	86,86,86,86	0
80	OHX	1	3637	7/7	0.66	0.20	215,224,239,322	0
80	OHX	sR	2029	7/7	0.66	0.18	210,224,235,309	0
81	MG	sR	2108	1/1	0.67	0.24	83,83,83,83	0
81	MG	AR	3786	1/1	0.67	0.27	74,74,74,74	0
81	MG	1	3730	1/1	0.67	0.37	86,86,86,86	0
81	MG	1	4041	1/1	0.67	0.20	107,107,107,107	0
81	MG	1	4049	1/1	0.67	0.30	107,107,107,107	0
81	MG	A	2019	1/1	0.67	0.30	63,63,63,63	0
81	MG	1	3977	1/1	0.67	0.21	95,95,95,95	0
81	MG	AR	3783	1/1	0.67	0.44	87,87,87,87	0
81	MG	sR	2146	1/1	0.68	0.22	81,81,81,81	0
81	MG	1	3866	1/1	0.68	0.29	88,88,88,88	0
81	MG	AR	3976	1/1	0.68	0.32	79,79,79,79	0
80	OHX	AT	213	7/7	0.68	0.16	193,201,208,304	0
81	MG	1	3944	1/1	0.68	0.41	81,81,81,81	0
81	MG	3	217	1/1	0.68	0.13	120,120,120,120	0
81	MG	4	225	1/1	0.68	0.20	80,80,80,80	0
80	OHX	1	3590	7/7	0.68	0.13	250,257,267,342	0
81	MG	AS	221	1/1	0.69	0.27	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	A	2028	1/1	0.69	0.24	77,77,77,77	0
81	MG	AR	4031	1/1	0.69	0.30	55,55,55,55	0
81	MG	1	3868	1/1	0.69	0.29	78,78,78,78	0
81	MG	sR	2109	1/1	0.69	0.26	79,79,79,79	0
81	MG	sR	2126	1/1	0.69	0.15	109,109,109,109	0
81	MG	sR	2143	1/1	0.69	0.23	87,87,87,87	0
81	MG	AR	4079	1/1	0.69	0.35	74,74,74,74	0
81	MG	sR	2157	1/1	0.69	0.19	78,78,78,78	0
81	MG	sR	2160	1/1	0.69	0.31	100,100,100,100	0
81	MG	t	202	1/1	0.69	0.23	91,91,91,91	0
81	MG	1	3654	1/1	0.69	0.17	82,82,82,82	0
81	MG	1	4032	1/1	0.69	0.22	79,79,79,79	0
81	MG	AR	3769	1/1	0.69	0.24	67,67,67,67	0
80	OHX	AR	3642	7/7	0.69	0.23	111,124,139,232	0
81	MG	AR	4156	1/1	0.69	0.24	77,77,77,77	0
81	MG	AR	4172	1/1	0.69	0.35	69,69,69,69	0
80	OHX	AR	3657	7/7	0.70	0.19	212,218,225,304	0
80	OHX	AR	3680	7/7	0.70	0.21	201,215,228,313	0
81	MG	1	3978	1/1	0.70	0.32	78,78,78,78	0
81	MG	sR	2138	1/1	0.70	0.34	87,87,87,87	0
80	OHX	AR	3687	7/7	0.70	0.17	206,208,217,309	0
81	MG	A	2097	1/1	0.70	0.47	74,74,74,74	0
81	MG	sR	2155	1/1	0.70	0.24	62,62,62,62	0
81	MG	AR	3974	1/1	0.70	0.47	76,76,76,76	0
80	OHX	AR	4224	7/7	0.70	0.14	228,236,238,320	0
81	MG	1	3871	1/1	0.70	0.25	76,76,76,76	0
81	MG	AR	3996	1/1	0.70	0.32	63,63,63,63	0
81	MG	1	3649	1/1	0.70	0.28	58,58,58,58	0
80	OHX	1	4175	7/7	0.70	0.15	231,235,237,306	0
81	MG	AS	224	1/1	0.70	0.23	76,76,76,76	0
81	MG	A	2008	1/1	0.70	0.42	70,70,70,70	0
81	MG	DR	502	1/1	0.70	0.20	90,90,90,90	0
81	MG	1	4004	1/1	0.71	0.31	83,83,83,83	0
81	MG	AR	3829	1/1	0.71	0.29	54,54,54,54	0
81	MG	AR	4087	1/1	0.71	0.22	80,80,80,80	0
81	MG	1	3947	1/1	0.71	0.36	73,73,73,73	0
81	MG	AR	3904	1/1	0.71	0.33	72,72,72,72	0
80	OHX	sR	2001	7/7	0.71	0.19	200,204,216,293	0
81	MG	AR	4141	1/1	0.71	0.23	97,97,97,97	0
81	MG	1	3964	1/1	0.71	0.30	74,74,74,74	0
81	MG	A	2072	1/1	0.71	0.31	63,63,63,63	0
81	MG	AR	3702	1/1	0.71	0.34	103,103,103,103	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	4166	1/1	0.71	0.21	61,61,61,61	0
81	MG	AR	3989	1/1	0.71	0.12	92,92,92,92	0
81	MG	AR	4186	1/1	0.71	0.34	68,68,68,68	0
81	MG	1	3725	1/1	0.71	0.30	80,80,80,80	0
80	OHX	1	3597	7/7	0.71	0.16	197,213,217,301	0
81	MG	A	2051	1/1	0.71	0.12	82,82,82,82	0
81	MG	A	2060	1/1	0.71	0.33	100,100,100,100	0
81	MG	1	3822	1/1	0.72	0.23	53,53,53,53	0
81	MG	A	1985	1/1	0.72	0.21	78,78,78,78	0
81	MG	1	4120	1/1	0.72	0.22	93,93,93,93	0
81	MG	1	3700	1/1	0.72	0.19	67,67,67,67	0
81	MG	A	2112	1/1	0.72	0.30	78,78,78,78	0
81	MG	AR	4119	1/1	0.72	0.38	97,97,97,97	0
80	OHX	sR	2033	7/7	0.72	0.16	210,217,223,306	0
81	MG	c6	201	1/1	0.72	0.35	83,83,83,83	0
81	MG	1	3975	1/1	0.72	0.20	75,75,75,75	0
82	K	A	2161	1/1	0.72	0.42	134,134,134,134	0
80	OHX	sR	2182	7/7	0.72	0.17	156,169,178,217	7
81	MG	sR	2112	1/1	0.72	0.20	61,61,61,61	0
86	5XU	s3	302	4/5	0.72	0.10	85,86,89,99	0
81	MG	1	3742	1/1	0.72	0.41	51,51,51,51	0
81	MG	AR	3931	1/1	0.72	0.30	57,57,57,57	0
81	MG	A	2044	1/1	0.73	0.33	86,86,86,86	0
81	MG	A	2067	1/1	0.73	0.21	80,80,80,80	0
81	MG	1	4002	1/1	0.73	0.29	82,82,82,82	0
81	MG	1	3922	1/1	0.73	0.13	90,90,90,90	0
81	MG	1	4008	1/1	0.73	0.37	90,90,90,90	0
81	MG	A	2011	1/1	0.73	0.24	76,76,76,76	0
81	MG	8	202	1/1	0.73	0.19	62,62,62,62	0
81	MG	AR	3995	1/1	0.73	0.18	94,94,94,94	0
81	MG	A	2098	1/1	0.73	0.11	78,78,78,78	0
81	MG	A	2108	1/1	0.73	0.26	86,86,86,86	0
81	MG	d2	201	1/1	0.73	0.18	56,56,56,56	0
80	OHX	sR	2186	7/7	0.73	0.13	183,188,190,244	7
81	MG	A	2113	1/1	0.73	0.23	82,82,82,82	0
80	OHX	AR	4232	7/7	0.73	0.13	188,196,205,298	0
81	MG	1	4087	1/1	0.73	0.27	58,58,58,58	0
81	MG	A	2054	1/1	0.73	0.27	85,85,85,85	0
81	MG	AR	3860	1/1	0.73	0.33	52,52,52,52	0
81	MG	A	2023	1/1	0.73	0.28	74,74,74,74	0
80	OHX	AR	3638	7/7	0.74	0.13	170,188,194,273	0
81	MG	AR	4072	1/1	0.74	0.23	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	3884	1/1	0.74	0.35	70,70,70,70	0
80	OHX	1	3629	7/7	0.74	0.12	259,263,276,359	0
81	MG	sR	2120	1/1	0.74	0.26	75,75,75,75	0
81	MG	AR	3790	1/1	0.74	0.29	48,48,48,48	0
81	MG	1	4097	1/1	0.74	0.34	80,80,80,80	0
81	MG	1	4107	1/1	0.74	0.31	92,92,92,92	0
81	MG	1	4001	1/1	0.74	0.14	76,76,76,76	0
80	OHX	sR	2177	7/7	0.74	0.16	208,216,221,305	0
80	OHX	1	3614	7/7	0.74	0.15	191,197,215,297	0
81	MG	1	3759	1/1	0.74	0.28	57,57,57,57	0
80	OHX	1	4172	7/7	0.74	0.21	176,181,191,269	0
81	MG	1	4019	1/1	0.74	0.29	89,89,89,89	0
81	MG	c4	2201	1/1	0.74	0.17	84,84,84,84	0
81	MG	AR	4159	1/1	0.74	0.14	82,82,82,82	0
81	MG	1	4020	1/1	0.74	0.29	81,81,81,81	0
81	MG	1	3644	1/1	0.74	0.28	80,80,80,80	0
80	OHX	AR	3597	7/7	0.74	0.18	162,168,177,256	0
81	MG	AR	4191	1/1	0.74	0.35	85,85,85,85	0
81	MG	AR	3730	1/1	0.74	0.28	69,69,69,69	0
80	OHX	AR	3688	7/7	0.74	0.13	218,221,239,311	0
80	OHX	AR	3691	7/7	0.74	0.14	221,233,244,322	0
81	MG	AR	4026	1/1	0.74	0.27	66,66,66,66	0
81	MG	sR	2037	1/1	0.75	0.29	53,53,53,53	0
81	MG	sR	2049	1/1	0.75	0.30	70,70,70,70	0
81	MG	sR	2059	1/1	0.75	0.28	80,80,80,80	0
81	MG	sR	2098	1/1	0.75	0.26	75,75,75,75	0
81	MG	A	2105	1/1	0.75	0.42	84,84,84,84	0
81	MG	1	3897	1/1	0.75	0.42	67,67,67,67	0
81	MG	1	3900	1/1	0.75	0.41	72,72,72,72	0
80	OHX	sR	2184	7/7	0.75	0.21	127,131,134,154	7
81	MG	AR	3935	1/1	0.75	0.17	92,92,92,92	0
81	MG	sR	2129	1/1	0.75	0.12	81,81,81,81	0
81	MG	AR	3943	1/1	0.75	0.40	84,84,84,84	0
81	MG	A	2085	1/1	0.75	0.28	74,74,74,74	0
81	MG	A	2086	1/1	0.75	0.27	84,84,84,84	0
81	MG	1	3946	1/1	0.75	0.22	66,66,66,66	0
80	OHX	x	209	7/7	0.75	0.12	220,222,228,314	0
81	MG	AR	3983	1/1	0.75	0.19	68,68,68,68	0
81	MG	1	3948	1/1	0.75	0.15	52,52,52,52	0
81	MG	1	3771	1/1	0.75	0.34	84,84,84,84	0
80	OHX	1	3630	7/7	0.75	0.14	182,186,203,285	0
81	MG	AR	4189	1/1	0.75	0.31	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	A	1978	7/7	0.75	0.13	209,223,226,308	0
81	MG	1	3971	1/1	0.75	0.28	55,55,55,55	0
80	OHX	sR	2178	7/7	0.75	0.18	148,158,166,253	0
81	MG	1	3656	1/1	0.75	0.28	50,50,50,50	0
81	MG	AT	227	1/1	0.75	0.21	63,63,63,63	0
81	MG	AT	228	1/1	0.75	0.33	70,70,70,70	0
81	MG	1	3677	1/1	0.75	0.29	77,77,77,77	0
80	OHX	A	1967	7/7	0.75	0.15	190,192,205,281	0
81	MG	AR	3972	1/1	0.76	0.19	55,55,55,55	0
80	OHX	AR	3690	7/7	0.76	0.13	195,198,211,294	0
81	MG	m	301	1/1	0.76	0.24	82,82,82,82	0
80	OHX	1	3603	7/7	0.76	0.20	158,164,170,261	0
81	MG	1	3986	1/1	0.76	0.21	97,97,97,97	0
81	MG	1	4037	1/1	0.76	0.19	65,65,65,65	0
81	MG	sR	2162	1/1	0.76	0.32	77,77,77,77	0
81	MG	1	4101	1/1	0.76	0.12	48,48,48,48	0
80	OHX	1	3560	7/7	0.76	0.20	126,141,151,236	0
81	MG	AR	3913	1/1	0.76	0.15	69,69,69,69	0
81	MG	AR	4154	1/1	0.76	0.23	85,85,85,85	0
81	MG	1	4110	1/1	0.76	0.19	81,81,81,81	0
81	MG	AR	4016	1/1	0.76	0.17	77,77,77,77	0
81	MG	d5	201	1/1	0.76	0.18	94,94,94,94	0
80	OHX	AR	3667	7/7	0.76	0.13	190,195,207,287	0
81	MG	AR	3936	1/1	0.76	0.29	75,75,75,75	0
81	MG	AR	4046	1/1	0.76	0.29	82,82,82,82	0
81	MG	1	4053	1/1	0.76	0.31	84,84,84,84	0
81	MG	sR	2128	1/1	0.76	0.27	97,97,97,97	0
81	MG	1	4056	1/1	0.76	0.42	85,85,85,85	0
81	MG	AR	3928	1/1	0.77	0.25	77,77,77,77	0
81	MG	sR	2055	1/1	0.77	0.19	59,59,59,59	0
81	MG	AR	3929	1/1	0.77	0.40	60,60,60,60	0
81	MG	sR	2064	1/1	0.77	0.42	90,90,90,90	0
81	MG	sR	2072	1/1	0.77	0.25	59,59,59,59	0
81	MG	sR	2096	1/1	0.77	0.18	81,81,81,81	0
81	MG	AR	4086	1/1	0.77	0.22	60,60,60,60	0
81	MG	1	4050	1/1	0.77	0.21	76,76,76,76	0
81	MG	1	3990	1/1	0.77	0.34	73,73,73,73	0
80	OHX	sR	2181	7/7	0.77	0.12	206,209,218,280	0
81	MG	1	3795	1/1	0.77	0.24	60,60,60,60	0
81	MG	AR	4108	1/1	0.77	0.38	92,92,92,92	0
81	MG	AR	3720	1/1	0.77	0.35	59,59,59,59	0
80	OHX	1	3564	7/7	0.77	0.15	167,174,180,271	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	3973	1/1	0.77	0.29	70,70,70,70	0
80	OHX	AR	4231	7/7	0.77	0.14	182,187,198,290	0
81	MG	1	3690	1/1	0.77	0.25	65,65,65,65	0
81	MG	sR	2154	1/1	0.77	0.24	89,89,89,89	0
81	MG	AR	3775	1/1	0.77	0.20	68,68,68,68	0
81	MG	AR	3980	1/1	0.77	0.15	65,65,65,65	0
80	OHX	A	2158	7/7	0.77	0.18	167,181,186,263	0
80	OHX	d6	201	7/7	0.77	0.17	184,189,196,270	0
81	MG	sR	2163	1/1	0.77	0.21	87,87,87,87	0
81	MG	AR	4174	1/1	0.77	0.29	64,64,64,64	0
80	OHX	AR	4238	7/7	0.77	0.17	182,190,198,297	0
80	OHX	AR	3695	7/7	0.77	0.19	205,217,229,324	0
81	MG	1	3735	1/1	0.77	0.28	78,78,78,78	0
81	MG	AR	3843	1/1	0.77	0.45	58,58,58,58	0
81	MG	AR	3844	1/1	0.77	0.22	64,64,64,64	0
80	OHX	AR	3679	7/7	0.77	0.12	194,196,206,288	0
81	MG	AT	218	1/1	0.77	0.19	73,73,73,73	0
81	MG	A	2070	1/1	0.77	0.25	87,87,87,87	0
81	MG	AR	4043	1/1	0.77	0.24	88,88,88,88	0
81	MG	1	4045	1/1	0.77	0.38	97,97,97,97	0
81	MG	AR	4054	1/1	0.77	0.21	66,66,66,66	0
81	MG	1	3769	1/1	0.77	0.28	65,65,65,65	0
81	MG	AR	4006	1/1	0.78	0.20	60,60,60,60	0
80	OHX	AR	4228	7/7	0.78	0.13	165,173,179,269	0
81	MG	1	4085	1/1	0.78	0.27	58,58,58,58	0
81	MG	AR	3792	1/1	0.78	0.44	81,81,81,81	0
81	MG	sR	2044	1/1	0.78	0.20	76,76,76,76	0
81	MG	A	2080	1/1	0.78	0.10	96,96,96,96	0
81	MG	AR	4034	1/1	0.78	0.40	75,75,75,75	0
81	MG	A	2034	1/1	0.78	0.12	97,97,97,97	0
80	OHX	sR	2030	7/7	0.78	0.14	185,199,205,280	0
81	MG	sR	2069	1/1	0.78	0.32	60,60,60,60	0
81	MG	1	3991	1/1	0.78	0.34	78,78,78,78	0
81	MG	AR	4067	1/1	0.78	0.27	84,84,84,84	0
81	MG	AR	3878	1/1	0.78	0.34	68,68,68,68	0
81	MG	sR	2101	1/1	0.78	0.20	73,73,73,73	0
81	MG	1	3872	1/1	0.78	0.19	56,56,56,56	0
81	MG	1	3876	1/1	0.78	0.30	81,81,81,81	0
81	MG	AR	3905	1/1	0.78	0.21	83,83,83,83	0
81	MG	1	3688	1/1	0.78	0.20	63,63,63,63	0
81	MG	AR	3924	1/1	0.78	0.40	70,70,70,70	0
81	MG	A	1988	1/1	0.78	0.30	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	3	223	7/7	0.78	0.11	207,216,224,300	0
81	MG	AR	4105	1/1	0.78	0.17	63,63,63,63	0
81	MG	A	2048	1/1	0.78	0.15	81,81,81,81	0
80	OHX	sR	2035	7/7	0.78	0.14	213,216,227,288	0
81	MG	A	2009	1/1	0.78	0.33	72,72,72,72	0
81	MG	1	4024	1/1	0.78	0.16	105,105,105,105	0
81	MG	AR	3945	1/1	0.78	0.40	81,81,81,81	0
80	OHX	AR	3669	7/7	0.78	0.12	208,230,232,313	0
81	MG	AR	3955	1/1	0.78	0.18	48,48,48,48	0
80	OHX	AR	3673	7/7	0.78	0.18	166,167,177,266	0
80	OHX	A	1972	7/7	0.78	0.13	199,207,220,289	0
81	MG	1	4039	1/1	0.78	0.52	82,82,82,82	0
81	MG	AR	3722	1/1	0.78	0.28	68,68,68,68	0
81	MG	AR	4175	1/1	0.78	0.27	84,84,84,84	0
81	MG	c6	202	1/1	0.78	0.25	89,89,89,89	0
80	OHX	1	3615	7/7	0.78	0.21	201,205,216,303	0
80	OHX	AR	4226	7/7	0.78	0.11	203,210,218,285	0
81	MG	AR	3761	1/1	0.78	0.33	69,69,69,69	0
81	MG	AR	4196	1/1	0.78	0.21	64,64,64,64	0
81	MG	AR	3985	1/1	0.78	0.16	53,53,53,53	0
80	OHX	1	3632	7/7	0.78	0.15	196,209,215,304	0
81	MG	CE	404	1/1	0.78	0.32	62,62,62,62	0
81	MG	1	3838	1/1	0.78	0.25	79,79,79,79	0
81	MG	A	2031	1/1	0.78	0.17	62,62,62,62	0
81	MG	AR	3901	1/1	0.79	0.23	77,77,77,77	0
80	OHX	AR	3698	7/7	0.79	0.15	144,149,166,226	0
81	MG	sR	2110	1/1	0.79	0.15	92,92,92,92	0
81	MG	AR	4012	1/1	0.79	0.28	70,70,70,70	0
81	MG	sR	2118	1/1	0.79	0.17	83,83,83,83	0
80	OHX	sR	2187	7/7	0.79	0.13	188,191,195,282	0
81	MG	A	2065	1/1	0.79	0.13	83,83,83,83	0
81	MG	AR	4020	1/1	0.79	0.34	90,90,90,90	0
81	MG	AR	4178	1/1	0.79	0.29	59,59,59,59	0
81	MG	sR	2131	1/1	0.79	0.34	81,81,81,81	0
81	MG	A	2039	1/1	0.79	0.22	69,69,69,69	0
81	MG	1	3983	1/1	0.79	0.35	71,71,71,71	0
81	MG	sR	2144	1/1	0.79	0.16	75,75,75,75	0
81	MG	sR	2145	1/1	0.79	0.36	94,94,94,94	0
80	OHX	sR	2011	7/7	0.79	0.14	167,170,182,261	0
81	MG	AR	3724	1/1	0.79	0.20	63,63,63,63	0
81	MG	1	3988	1/1	0.79	0.12	55,55,55,55	0
81	MG	1	3761	1/1	0.79	0.25	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	3747	1/1	0.79	0.16	64,64,64,64	0
81	MG	1	3651	1/1	0.79	0.38	69,69,69,69	0
80	OHX	AR	3685	7/7	0.79	0.12	189,197,209,291	0
80	OHX	sR	2025	7/7	0.79	0.14	194,197,212,288	0
81	MG	AR	4081	1/1	0.79	0.39	73,73,73,73	0
81	MG	s4	303	1/1	0.79	0.27	73,73,73,73	0
81	MG	s8	301	1/1	0.79	0.46	107,107,107,107	0
81	MG	1	3943	1/1	0.79	0.24	93,93,93,93	0
81	MG	1	3805	1/1	0.79	0.38	57,57,57,57	0
80	OHX	AR	4225	7/7	0.79	0.18	146,157,174,262	0
81	MG	1	4009	1/1	0.79	0.24	74,74,74,74	0
81	MG	1	4012	1/1	0.79	0.15	60,60,60,60	0
81	MG	A	2106	1/1	0.79	0.36	79,79,79,79	0
80	OHX	1	3628	7/7	0.79	0.10	223,234,248,332	0
81	MG	A	2111	1/1	0.79	0.12	58,58,58,58	0
85	ZN	d7	101	1/1	0.79	0.11	220,220,220,220	0
81	MG	1	3862	1/1	0.79	0.20	57,57,57,57	0
81	MG	AR	3990	1/1	0.79	0.33	83,83,83,83	0
81	MG	1	3865	1/1	0.79	0.32	88,88,88,88	0
80	OHX	1	3586	7/7	0.79	0.14	162,172,185,262	0
81	MG	1	3704	1/1	0.80	0.20	62,62,62,62	0
80	OHX	1	3609	7/7	0.80	0.12	201,217,225,294	0
81	MG	1	4048	1/1	0.80	0.26	72,72,72,72	0
80	OHX	AR	3648	7/7	0.80	0.19	148,157,168,258	0
81	MG	1	3982	1/1	0.80	0.31	63,63,63,63	0
80	OHX	e	102	7/7	0.80	0.12	234,236,247,320	0
81	MG	1	3734	1/1	0.80	0.24	71,71,71,71	0
81	MG	1	3877	1/1	0.80	0.27	89,89,89,89	0
81	MG	AR	3771	1/1	0.80	0.39	69,69,69,69	0
81	MG	1	4065	1/1	0.80	0.33	73,73,73,73	0
81	MG	1	4077	1/1	0.80	0.33	51,51,51,51	0
80	OHX	A	1976	7/7	0.80	0.11	184,191,201,266	0
81	MG	AR	4162	1/1	0.80	0.32	69,69,69,69	0
81	MG	1	3896	1/1	0.80	0.33	66,66,66,66	0
81	MG	1	4092	1/1	0.80	0.31	53,53,53,53	0
80	OHX	A	2143	7/7	0.80	0.16	180,186,192,262	0
81	MG	AR	3799	1/1	0.80	0.40	53,53,53,53	0
81	MG	AR	3999	1/1	0.80	0.33	90,90,90,90	0
80	OHX	sR	2018	7/7	0.80	0.12	200,207,214,274	0
81	MG	AR	3831	1/1	0.80	0.26	58,58,58,58	0
80	OHX	A	2154	7/7	0.80	0.11	238,241,243,304	0
81	MG	A	2087	1/1	0.80	0.10	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	4207	1/1	0.80	0.30	69,69,69,69	0
81	MG	AS	217	1/1	0.80	0.22	80,80,80,80	0
81	MG	1	3928	1/1	0.80	0.41	65,65,65,65	0
80	OHX	sR	2021	7/7	0.80	0.16	139,146,166,244	0
81	MG	AR	3891	1/1	0.80	0.12	48,48,48,48	0
80	OHX	A	1949	7/7	0.80	0.14	187,189,193,266	0
80	OHX	3	222	7/7	0.80	0.15	201,206,212,296	0
80	OHX	sR	2189	7/7	0.80	0.15	184,188,190,239	7
80	OHX	sR	2027	7/7	0.80	0.18	182,187,204,283	0
81	MG	A	2099	1/1	0.80	0.17	64,64,64,64	0
81	MG	d3	201	1/1	0.80	0.24	65,65,65,65	0
81	MG	A	2104	1/1	0.80	0.33	60,60,60,60	0
81	MG	z	202	1/1	0.80	0.18	111,111,111,111	0
81	MG	1	3859	1/1	0.80	0.30	81,81,81,81	0
80	OHX	AR	3696	7/7	0.80	0.12	187,199,201,292	0
81	MG	AR	3932	1/1	0.80	0.45	76,76,76,76	0
85	ZN	e1	501	1/1	0.80	0.11	181,181,181,181	0
81	MG	AR	4085	1/1	0.80	0.17	54,54,54,54	0
81	MG	1	3701	1/1	0.80	0.24	66,66,66,66	0
81	MG	AR	3708	1/1	0.80	0.23	56,56,56,56	0
81	MG	sR	2083	1/1	0.80	0.19	64,64,64,64	0
81	MG	AR	3918	1/1	0.81	0.23	77,77,77,77	0
81	MG	1	3659	1/1	0.81	0.25	64,64,64,64	0
81	MG	A	1995	1/1	0.81	0.23	69,69,69,69	0
80	OHX	AR	3694	7/7	0.81	0.13	197,201,210,283	0
81	MG	sR	2075	1/1	0.81	0.25	68,68,68,68	0
81	MG	sR	2078	1/1	0.81	0.19	56,56,56,56	0
81	MG	AR	4082	1/1	0.81	0.28	76,76,76,76	0
81	MG	AR	3930	1/1	0.81	0.36	72,72,72,72	0
81	MG	1	4051	1/1	0.81	0.28	79,79,79,79	0
80	OHX	AS	209	7/7	0.81	0.16	151,156,167,246	0
81	MG	AR	4091	1/1	0.81	0.19	71,71,71,71	0
80	OHX	AR	3635	7/7	0.81	0.16	179,190,202,287	0
80	OHX	AR	3675	7/7	0.81	0.15	155,165,174,261	0
81	MG	AR	3939	1/1	0.81	0.32	78,78,78,78	0
81	MG	AR	3760	1/1	0.81	0.17	63,63,63,63	0
81	MG	A	2012	1/1	0.81	0.36	91,91,91,91	0
81	MG	sR	2122	1/1	0.81	0.17	83,83,83,83	0
81	MG	AR	3762	1/1	0.81	0.29	72,72,72,72	0
81	MG	AR	4125	1/1	0.81	0.17	45,45,45,45	0
81	MG	AR	4128	1/1	0.81	0.27	101,101,101,101	0
81	MG	AR	3766	1/1	0.81	0.15	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	sR	2136	1/1	0.81	0.44	84,84,84,84	0
81	MG	AR	3958	1/1	0.81	0.15	53,53,53,53	0
81	MG	1	4069	1/1	0.81	0.30	67,67,67,67	0
81	MG	A	2056	1/1	0.81	0.28	92,92,92,92	0
80	OHX	1	3636	7/7	0.81	0.14	170,175,190,268	0
81	MG	AR	3780	1/1	0.81	0.29	71,71,71,71	0
81	MG	sR	2148	1/1	0.81	0.10	69,69,69,69	0
81	MG	A	2061	1/1	0.81	0.28	69,69,69,69	0
80	OHX	1	3574	7/7	0.81	0.14	153,160,175,255	0
81	MG	A	2064	1/1	0.81	0.15	82,82,82,82	0
81	MG	1	3905	1/1	0.81	0.31	80,80,80,80	0
81	MG	AR	3791	1/1	0.81	0.36	50,50,50,50	0
80	OHX	sR	2016	7/7	0.81	0.11	222,235,243,311	0
81	MG	A	2066	1/1	0.81	0.21	67,67,67,67	0
81	MG	AR	3810	1/1	0.81	0.20	53,53,53,53	0
81	MG	AR	3998	1/1	0.81	0.26	80,80,80,80	0
80	OHX	A	2110	7/7	0.81	0.14	165,171,179,253	0
81	MG	1	3929	1/1	0.81	0.32	72,72,72,72	0
81	MG	A	2069	1/1	0.81	0.21	96,96,96,96	0
80	OHX	AR	3653	7/7	0.81	0.14	162,174,180,269	0
81	MG	AR	3854	1/1	0.81	0.20	62,62,62,62	0
80	OHX	A	1957	7/7	0.81	0.11	203,205,213,283	0
80	OHX	AR	3689	7/7	0.81	0.09	249,257,263,339	0
80	OHX	AR	3591	7/7	0.81	0.17	146,148,156,256	0
80	OHX	A	1965	7/7	0.81	0.12	191,197,214,283	0
81	MG	1	3956	1/1	0.81	0.23	81,81,81,81	0
81	MG	DQ	201	1/1	0.81	0.28	69,69,69,69	0
81	MG	AR	4041	1/1	0.81	0.32	87,87,87,87	0
81	MG	1	3653	1/1	0.81	0.34	49,49,49,49	0
80	OHX	AR	4233	7/7	0.81	0.20	157,165,175,270	0
81	MG	AR	3907	1/1	0.81	0.34	64,64,64,64	0
81	MG	A	2042	1/1	0.81	0.24	82,82,82,82	0
80	OHX	sR	2008	7/7	0.82	0.15	192,197,207,294	0
81	MG	AR	4019	1/1	0.82	0.24	75,75,75,75	0
81	MG	A	2002	1/1	0.82	0.29	65,65,65,65	0
81	MG	1	4188	1/1	0.82	0.12	96,96,96,96	0
81	MG	sR	2042	1/1	0.82	0.23	78,78,78,78	0
81	MG	AR	4030	1/1	0.82	0.24	99,99,99,99	0
81	MG	1	3740	1/1	0.82	0.20	55,55,55,55	0
81	MG	sR	2050	1/1	0.82	0.22	70,70,70,70	0
81	MG	sR	2052	1/1	0.82	0.20	72,72,72,72	0
81	MG	AR	3846	1/1	0.82	0.25	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	3850	1/1	0.82	0.21	69,69,69,69	0
81	MG	1	3901	1/1	0.82	0.50	75,75,75,75	0
81	MG	sR	2066	1/1	0.82	0.19	71,71,71,71	0
81	MG	4	219	1/1	0.82	0.28	64,64,64,64	0
80	OHX	AR	3645	7/7	0.82	0.17	180,181,192,280	0
81	MG	sR	2074	1/1	0.82	0.26	49,49,49,49	0
81	MG	AR	4057	1/1	0.82	0.15	85,85,85,85	0
81	MG	4	232	1/1	0.82	0.13	68,68,68,68	0
80	OHX	sR	2013	7/7	0.82	0.16	136,144,148,237	0
80	OHX	A	1968	7/7	0.82	0.11	221,224,231,300	0
80	OHX	1	3554	7/7	0.82	0.11	202,204,216,292	0
81	MG	AR	4080	1/1	0.82	0.28	70,70,70,70	0
81	MG	v	303	1/1	0.82	0.15	69,69,69,69	0
81	MG	A	2052	1/1	0.82	0.15	70,70,70,70	0
81	MG	1	3942	1/1	0.82	0.20	61,61,61,61	0
81	MG	AR	3915	1/1	0.82	0.33	70,70,70,70	0
81	MG	1	3775	1/1	0.82	0.09	44,44,44,44	0
81	MG	sR	2119	1/1	0.82	0.22	134,134,134,134	0
81	MG	1	4026	1/1	0.82	0.26	81,81,81,81	0
81	MG	1	3789	1/1	0.82	0.33	63,63,63,63	0
81	MG	AR	4096	1/1	0.82	0.12	75,75,75,75	0
81	MG	AR	3717	1/1	0.82	0.38	42,42,42,42	0
80	OHX	1	3623	7/7	0.82	0.13	181,195,205,290	0
81	MG	A	2090	1/1	0.82	0.19	73,73,73,73	0
81	MG	AR	4107	1/1	0.82	0.24	69,69,69,69	0
81	MG	1	3820	1/1	0.82	0.29	48,48,48,48	0
81	MG	1	3949	1/1	0.82	0.31	62,62,62,62	0
81	MG	AR	3735	1/1	0.82	0.24	69,69,69,69	0
81	MG	1	4046	1/1	0.82	0.18	71,71,71,71	0
81	MG	A	2092	1/1	0.82	0.36	53,53,53,53	0
81	MG	1	3955	1/1	0.82	0.38	78,78,78,78	0
81	MG	1	3828	1/1	0.82	0.41	48,48,48,48	0
81	MG	AR	4151	1/1	0.82	0.16	67,67,67,67	0
81	MG	sR	2156	1/1	0.82	0.20	64,64,64,64	0
80	OHX	CG	304	7/7	0.82	0.12	180,189,197,275	0
81	MG	AR	3763	1/1	0.82	0.26	77,77,77,77	0
81	MG	AR	3968	1/1	0.82	0.15	48,48,48,48	0
81	MG	A	2020	1/1	0.82	0.25	71,71,71,71	0
81	MG	sR	2164	1/1	0.82	0.25	62,62,62,62	0
81	MG	1	3660	1/1	0.82	0.44	58,58,58,58	0
81	MG	AR	3770	1/1	0.82	0.32	72,72,72,72	0
81	MG	sR	2169	1/1	0.82	0.33	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	sR	2173	1/1	0.82	0.24	72,72,72,72	0
81	MG	1	3856	1/1	0.82	0.23	71,71,71,71	0
80	OHX	AR	3701	7/7	0.82	0.16	175,183,189,284	0
81	MG	s8	303	1/1	0.82	0.16	61,61,61,61	0
81	MG	AR	3776	1/1	0.82	0.27	66,66,66,66	0
80	OHX	sR	1973	7/7	0.82	0.12	193,198,202,277	0
80	OHX	sR	1982	7/7	0.82	0.14	205,210,221,290	0
80	OHX	sR	1990	7/7	0.82	0.14	136,139,144,234	0
81	MG	AR	4194	1/1	0.82	0.15	68,68,68,68	0
81	MG	A	2100	1/1	0.82	0.29	67,67,67,67	0
81	MG	AR	3787	1/1	0.82	0.33	79,79,79,79	0
80	OHX	AR	3693	7/7	0.82	0.10	179,183,199,279	0
81	MG	1	3712	1/1	0.82	0.42	84,84,84,84	0
81	MG	A	1989	1/1	0.82	0.20	64,64,64,64	0
81	MG	AR	3795	1/1	0.82	0.33	44,44,44,44	0
80	OHX	sR	2003	7/7	0.82	0.14	197,201,215,282	0
81	MG	A	1996	1/1	0.82	0.26	68,68,68,68	0
81	MG	AR	3815	1/1	0.82	0.25	48,48,48,48	0
81	MG	CG	301	1/1	0.82	0.32	79,79,79,79	0
86	5XU	c0	203	5/5	0.82	0.14	131,132,133,134	0
81	MG	x	207	1/1	0.83	0.25	89,89,89,89	0
81	MG	x	208	1/1	0.83	0.25	56,56,56,56	0
80	OHX	AR	3644	7/7	0.83	0.15	172,179,190,270	0
81	MG	AR	4114	1/1	0.83	0.23	59,59,59,59	0
81	MG	AR	3821	1/1	0.83	0.22	72,72,72,72	0
81	MG	sR	2091	1/1	0.83	0.25	64,64,64,64	0
81	MG	AR	3981	1/1	0.83	0.28	86,86,86,86	0
81	MG	1	3914	1/1	0.83	0.14	54,54,54,54	0
81	MG	sR	2100	1/1	0.83	0.14	83,83,83,83	0
81	MG	AR	4129	1/1	0.83	0.16	89,89,89,89	0
80	OHX	AR	3602	7/7	0.83	0.16	147,162,172,253	0
81	MG	AR	3842	1/1	0.83	0.35	53,53,53,53	0
81	MG	AN	201	1/1	0.83	0.23	76,76,76,76	0
81	MG	AR	4150	1/1	0.83	0.21	102,102,102,102	0
81	MG	AR	3994	1/1	0.83	0.34	63,63,63,63	0
81	MG	1	3732	1/1	0.83	0.28	48,48,48,48	0
81	MG	1	3839	1/1	0.83	0.38	74,74,74,74	0
81	MG	AR	4157	1/1	0.83	0.26	60,60,60,60	0
81	MG	AR	3714	1/1	0.83	0.28	65,65,65,65	0
80	OHX	AR	3670	7/7	0.83	0.12	162,169,185,266	0
81	MG	1	3934	1/1	0.83	0.11	89,89,89,89	0
81	MG	1	4070	1/1	0.83	0.40	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	4076	1/1	0.83	0.33	45,45,45,45	0
80	OHX	sR	2023	7/7	0.83	0.14	200,202,212,301	0
80	OHX	A	1952	7/7	0.83	0.17	201,205,219,292	0
81	MG	AR	4183	1/1	0.83	0.31	66,66,66,66	0
81	MG	AR	3744	1/1	0.83	0.12	66,66,66,66	0
80	OHX	AT	201	7/7	0.83	0.14	182,186,192,275	0
81	MG	1	3683	1/1	0.83	0.21	63,63,63,63	0
81	MG	sR	2150	1/1	0.83	0.38	65,65,65,65	0
81	MG	AR	3908	1/1	0.83	0.43	78,78,78,78	0
80	OHX	O	201	7/7	0.83	0.11	211,216,228,293	0
81	MG	DA	202	1/1	0.83	0.29	56,56,56,56	0
81	MG	AR	4212	1/1	0.83	0.24	71,71,71,71	0
81	MG	AR	4217	1/1	0.83	0.19	50,50,50,50	0
81	MG	AR	4218	1/1	0.83	0.23	68,68,68,68	0
81	MG	AR	4219	1/1	0.83	0.23	65,65,65,65	0
81	MG	AS	201	1/1	0.83	0.17	79,79,79,79	0
81	MG	AR	4039	1/1	0.83	0.14	68,68,68,68	0
81	MG	1	3692	1/1	0.83	0.53	72,72,72,72	0
81	MG	A	2030	1/1	0.83	0.13	79,79,79,79	0
81	MG	1	3777	1/1	0.83	0.24	70,70,70,70	0
81	MG	1	4119	1/1	0.83	0.34	83,83,83,83	0
81	MG	A	2006	1/1	0.83	0.30	68,68,68,68	0
81	MG	AR	4061	1/1	0.83	0.14	52,52,52,52	0
81	MG	1	3960	1/1	0.83	0.21	93,93,93,93	0
80	OHX	k	404	7/7	0.83	0.11	185,191,196,275	0
81	MG	1	3881	1/1	0.83	0.23	79,79,79,79	0
81	MG	c8	203	1/1	0.83	0.47	81,81,81,81	0
80	OHX	AR	3699	7/7	0.83	0.13	173,183,192,283	0
81	MG	1	3807	1/1	0.83	0.30	45,45,45,45	0
81	MG	1	3811	1/1	0.83	0.23	50,50,50,50	0
81	MG	l	401	1/1	0.83	0.29	74,74,74,74	0
81	MG	1	3815	1/1	0.83	0.28	61,61,61,61	0
81	MG	AR	3788	1/1	0.83	0.12	49,49,49,49	0
81	MG	AR	3956	1/1	0.83	0.11	66,66,66,66	0
81	MG	sR	2054	1/1	0.83	0.29	61,61,61,61	0
81	MG	1	4047	1/1	0.83	0.26	68,68,68,68	0
81	MG	AR	3964	1/1	0.83	0.23	76,76,76,76	0
80	OHX	sR	1963	7/7	0.83	0.16	142,149,152,239	0
81	MG	1	3904	1/1	0.83	0.18	59,59,59,59	0
81	MG	w	201	1/1	0.83	0.30	84,84,84,84	0
81	MG	A	2088	1/1	0.84	0.43	54,54,54,54	0
81	MG	1	3967	1/1	0.84	0.26	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	3778	1/1	0.84	0.27	56,56,56,56	0
81	MG	1	3968	1/1	0.84	0.32	65,65,65,65	0
81	MG	AS	218	1/1	0.84	0.25	59,59,59,59	0
81	MG	1	3686	1/1	0.84	0.24	72,72,72,72	0
81	MG	1	3855	1/1	0.84	0.34	74,74,74,74	0
80	OHX	A	1975	7/7	0.84	0.12	225,236,241,296	0
80	OHX	1	3631	7/7	0.84	0.11	181,185,192,278	0
81	MG	AR	4004	1/1	0.84	0.22	65,65,65,65	0
80	OHX	l	403	7/7	0.84	0.10	213,225,237,312	0
81	MG	1	4103	1/1	0.84	0.34	55,55,55,55	0
81	MG	CK	201	1/1	0.84	0.15	76,76,76,76	0
81	MG	CM	202	1/1	0.84	0.29	70,70,70,70	0
81	MG	1	3696	1/1	0.84	0.37	49,49,49,49	0
80	OHX	AR	3678	7/7	0.84	0.17	147,154,160,251	0
80	OHX	1	3598	7/7	0.84	0.11	232,239,243,302	0
81	MG	b	202	1/1	0.84	0.27	84,84,84,84	0
81	MG	AR	3796	1/1	0.84	0.20	63,63,63,63	0
81	MG	AR	4022	1/1	0.84	0.16	66,66,66,66	0
81	MG	sR	2043	1/1	0.84	0.20	60,60,60,60	0
81	MG	A	1999	1/1	0.84	0.33	55,55,55,55	0
80	OHX	z	204	7/7	0.84	0.10	142,146,151,198	7
81	MG	1	3874	1/1	0.84	0.23	63,63,63,63	0
81	MG	1	3718	1/1	0.84	0.16	61,61,61,61	0
81	MG	3	218	1/1	0.84	0.25	73,73,73,73	0
81	MG	1	3993	1/1	0.84	0.13	65,65,65,65	0
81	MG	AR	3835	1/1	0.84	0.26	46,46,46,46	0
81	MG	sR	2061	1/1	0.84	0.12	61,61,61,61	0
81	MG	4	224	1/1	0.84	0.12	61,61,61,61	0
81	MG	sR	2065	1/1	0.84	0.15	89,89,89,89	0
81	MG	1	3996	1/1	0.84	0.24	77,77,77,77	0
81	MG	1	3997	1/1	0.84	0.30	86,86,86,86	0
81	MG	1	3721	1/1	0.84	0.42	60,60,60,60	0
81	MG	AR	4064	1/1	0.84	0.23	68,68,68,68	0
81	MG	l	402	1/1	0.84	0.38	46,46,46,46	0
81	MG	A	2053	1/1	0.84	0.20	83,83,83,83	0
81	MG	AR	3858	1/1	0.84	0.28	44,44,44,44	0
81	MG	AR	4076	1/1	0.84	0.13	84,84,84,84	0
81	MG	sR	2095	1/1	0.84	0.09	66,66,66,66	0
81	MG	r	301	1/1	0.84	0.22	51,51,51,51	0
81	MG	AR	3868	1/1	0.84	0.19	43,43,43,43	0
81	MG	r	303	1/1	0.84	0.12	67,67,67,67	0
81	MG	1	3727	1/1	0.84	0.17	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3683	7/7	0.84	0.15	159,165,174,263	0
80	OHX	AR	3573	7/7	0.84	0.15	136,139,153,245	0
81	MG	AR	3903	1/1	0.84	0.34	71,71,71,71	0
81	MG	sR	2111	1/1	0.84	0.21	74,74,74,74	0
81	MG	v	305	1/1	0.84	0.38	68,68,68,68	0
80	OHX	1	3634	7/7	0.84	0.11	196,212,215,299	0
81	MG	x	205	1/1	0.84	0.29	55,55,55,55	0
80	OHX	AS	210	7/7	0.84	0.12	179,183,198,274	0
81	MG	1	4018	1/1	0.84	0.28	73,73,73,73	0
81	MG	AR	4100	1/1	0.84	0.14	84,84,84,84	0
81	MG	sR	2127	1/1	0.84	0.24	73,73,73,73	0
80	OHX	A	2145	7/7	0.84	0.14	204,207,216,278	0
81	MG	A	2109	1/1	0.84	0.23	99,99,99,99	0
81	MG	AR	3919	1/1	0.84	0.15	65,65,65,65	0
81	MG	sR	2134	1/1	0.84	0.19	70,70,70,70	0
81	MG	AR	3923	1/1	0.84	0.15	57,57,57,57	0
80	OHX	sR	2032	7/7	0.84	0.12	192,198,209,289	0
81	MG	AR	4122	1/1	0.84	0.18	76,76,76,76	0
81	MG	AH	201	1/1	0.84	0.37	76,76,76,76	0
81	MG	AK	101	1/1	0.84	0.09	62,62,62,62	0
80	OHX	A	1980	7/7	0.84	0.11	241,244,251,321	0
81	MG	AR	4131	1/1	0.84	0.19	79,79,79,79	0
81	MG	AR	4132	1/1	0.84	0.22	58,58,58,58	0
81	MG	sR	2152	1/1	0.84	0.16	88,88,88,88	0
81	MG	AR	4136	1/1	0.84	0.26	50,50,50,50	0
81	MG	1	3921	1/1	0.84	0.22	81,81,81,81	0
81	MG	AR	3707	1/1	0.84	0.23	62,62,62,62	0
81	MG	1	4028	1/1	0.84	0.36	53,53,53,53	0
81	MG	1	4029	1/1	0.84	0.31	79,79,79,79	0
80	OHX	1	4150	7/7	0.84	0.13	168,173,189,277	0
81	MG	AR	4153	1/1	0.84	0.32	72,72,72,72	0
80	OHX	1	4168	7/7	0.84	0.14	155,158,169,255	0
81	MG	AC	101	1/1	0.84	0.14	55,55,55,55	0
81	MG	1	3930	1/1	0.84	0.32	66,66,66,66	0
80	OHX	A	2155	7/7	0.84	0.20	155,160,167,211	7
81	MG	AR	3734	1/1	0.84	0.20	58,58,58,58	0
81	MG	AR	4165	1/1	0.84	0.32	50,50,50,50	0
81	MG	CD	301	1/1	0.84	0.32	51,51,51,51	0
81	MG	AR	4169	1/1	0.84	0.24	43,43,43,43	0
81	MG	s8	304	1/1	0.84	0.24	63,63,63,63	0
80	OHX	1	4173	7/7	0.84	0.11	168,175,184,261	0
81	MG	A	2027	1/1	0.84	0.23	93,93,93,93	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	3971	1/1	0.84	0.14	79,79,79,79	0
81	MG	AR	4177	1/1	0.84	0.39	59,59,59,59	0
80	OHX	A	1943	7/7	0.84	0.14	190,199,204,281	0
81	MG	AR	4180	1/1	0.84	0.26	70,70,70,70	0
81	MG	1	3650	1/1	0.84	0.33	59,59,59,59	0
81	MG	A	2075	1/1	0.84	0.29	79,79,79,79	0
81	MG	AR	4187	1/1	0.84	0.24	75,75,75,75	0
80	OHX	1	4177	7/7	0.84	0.24	134,140,142,171	7
81	MG	AR	3977	1/1	0.84	0.22	59,59,59,59	0
80	OHX	1	4180	6/7	0.84	0.11	185,189,193,281	0
80	OHX	1	3575	7/7	0.84	0.14	152,155,161,233	0
81	MG	AR	4198	1/1	0.84	0.24	55,55,55,55	0
80	OHX	A	1977	7/7	0.84	0.12	192,195,204,288	0
80	OHX	sR	2190	7/7	0.84	0.09	210,217,220,309	0
80	OHX	A	2141	7/7	0.84	0.13	165,167,178,250	0
81	MG	AR	4023	1/1	0.85	0.18	89,89,89,89	0
81	MG	1	3818	1/1	0.85	0.38	49,49,49,49	0
80	OHX	1	3638	7/7	0.85	0.14	156,162,169,250	0
81	MG	4	218	1/1	0.85	0.24	60,60,60,60	0
80	OHX	1	3616	7/7	0.85	0.10	169,176,185,268	0
81	MG	CM	201	1/1	0.85	0.25	69,69,69,69	0
81	MG	4	221	1/1	0.85	0.31	53,53,53,53	0
81	MG	CP	304	1/1	0.85	0.20	80,80,80,80	0
81	MG	AR	4040	1/1	0.85	0.23	81,81,81,81	0
80	OHX	1	4158	7/7	0.85	0.16	105,115,133,207	0
80	OHX	AR	3677	7/7	0.85	0.10	194,199,214,304	0
80	OHX	sR	2188	7/7	0.85	0.11	221,228,234,314	0
80	OHX	AR	3504	7/7	0.85	0.19	93,97,104,196	0
80	OHX	AR	3529	7/7	0.85	0.18	115,125,134,224	0
81	MG	1	3655	1/1	0.85	0.24	60,60,60,60	0
80	OHX	DK	201	7/7	0.85	0.12	222,225,245,328	0
80	OHX	1	4161	7/7	0.85	0.12	164,173,183,263	0
81	MG	AR	4069	1/1	0.85	0.27	82,82,82,82	0
80	OHX	AR	3578	7/7	0.85	0.16	135,139,143,242	0
81	MG	AR	3888	1/1	0.85	0.44	64,64,64,64	0
81	MG	1	3667	1/1	0.85	0.38	63,63,63,63	0
81	MG	1	3672	1/1	0.85	0.20	55,55,55,55	0
80	OHX	1	3619	7/7	0.85	0.11	180,184,194,271	0
81	MG	sR	2062	1/1	0.85	0.21	66,66,66,66	0
80	OHX	sR	1980	7/7	0.85	0.12	169,176,184,261	0
80	OHX	AR	3593	7/7	0.85	0.20	135,143,151,236	0
81	MG	A	1997	1/1	0.85	0.24	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	4170	7/7	0.85	0.11	179,188,198,280	0
81	MG	sR	2071	1/1	0.85	0.21	68,68,68,68	0
80	OHX	sR	1998	7/7	0.85	0.11	155,159,174,247	0
81	MG	1	3693	1/1	0.85	0.17	44,44,44,44	0
81	MG	1	3694	1/1	0.85	0.24	57,57,57,57	0
81	MG	AR	4093	1/1	0.85	0.25	53,53,53,53	0
81	MG	1	3894	1/1	0.85	0.09	93,93,93,93	0
81	MG	sR	2088	1/1	0.85	0.22	61,61,61,61	0
81	MG	sR	2089	1/1	0.85	0.37	70,70,70,70	0
81	MG	1	3895	1/1	0.85	0.35	71,71,71,71	0
81	MG	AR	3920	1/1	0.85	0.30	76,76,76,76	0
81	MG	AK	102	1/1	0.85	0.40	66,66,66,66	0
80	OHX	1	3556	7/7	0.85	0.14	162,165,169,267	0
80	OHX	AR	3606	7/7	0.85	0.12	160,163,178,242	0
81	MG	A	2007	1/1	0.85	0.18	75,75,75,75	0
80	OHX	sR	2005	7/7	0.85	0.15	150,155,161,242	0
80	OHX	AR	3618	7/7	0.85	0.12	177,182,192,259	0
81	MG	A	2010	1/1	0.85	0.26	68,68,68,68	0
81	MG	1	3913	1/1	0.85	0.20	81,81,81,81	0
80	OHX	sR	2009	7/7	0.85	0.14	185,192,205,276	0
81	MG	sR	2113	1/1	0.85	0.13	65,65,65,65	0
81	MG	sR	2116	1/1	0.85	0.11	72,72,72,72	0
81	MG	AR	3938	1/1	0.85	0.18	55,55,55,55	0
80	OHX	A	1966	7/7	0.85	0.14	164,167,183,244	0
81	MG	AR	3728	1/1	0.85	0.17	52,52,52,52	0
81	MG	AR	4134	1/1	0.85	0.21	78,78,78,78	0
80	OHX	AR	3636	7/7	0.85	0.11	163,171,186,263	0
80	OHX	A	1962	7/7	0.85	0.10	173,180,190,262	0
81	MG	AR	4142	1/1	0.85	0.12	71,71,71,71	0
80	OHX	AR	3641	7/7	0.85	0.15	163,170,182,261	0
81	MG	AR	3738	1/1	0.85	0.34	61,61,61,61	0
80	OHX	A	2157	7/7	0.85	0.11	179,182,185,254	0
81	MG	AR	3962	1/1	0.85	0.24	69,69,69,69	0
81	MG	sR	2137	1/1	0.85	0.15	66,66,66,66	0
80	OHX	sR	2020	7/7	0.85	0.11	195,204,209,278	0
81	MG	1	3931	1/1	0.85	0.18	79,79,79,79	0
81	MG	AR	3758	1/1	0.85	0.16	60,60,60,60	0
81	MG	1	4052	1/1	0.85	0.13	57,57,57,57	0
80	OHX	1	3602	7/7	0.85	0.11	156,164,169,252	0
81	MG	1	3939	1/1	0.85	0.22	67,67,67,67	0
80	OHX	3	206	7/7	0.85	0.14	172,174,178,254	0
80	OHX	A	2147	7/7	0.85	0.10	198,206,217,280	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	4167	1/1	0.85	0.18	49,49,49,49	0
81	MG	AR	3978	1/1	0.85	0.15	80,80,80,80	0
80	OHX	AR	3651	7/7	0.85	0.13	158,165,170,256	0
80	OHX	1	3633	7/7	0.85	0.10	225,232,239,318	0
81	MG	1	4074	1/1	0.85	0.12	54,54,54,54	0
81	MG	AR	3982	1/1	0.85	0.21	56,56,56,56	0
80	OHX	AR	3654	7/7	0.85	0.11	177,182,199,278	0
80	OHX	AR	3656	7/7	0.85	0.12	185,190,199,285	0
81	MG	AR	3777	1/1	0.85	0.15	72,72,72,72	0
81	MG	1	4079	1/1	0.85	0.28	60,60,60,60	0
81	MG	AR	3992	1/1	0.85	0.18	47,47,47,47	0
81	MG	AR	4188	1/1	0.85	0.19	61,61,61,61	0
81	MG	s2	301	1/1	0.85	0.17	88,88,88,88	0
80	OHX	AR	4230	7/7	0.85	0.14	179,183,193,288	0
80	OHX	1	3578	7/7	0.85	0.15	158,164,172,256	0
81	MG	1	3784	1/1	0.85	0.22	68,68,68,68	0
81	MG	AR	3997	1/1	0.85	0.26	79,79,79,79	0
80	OHX	1	3580	7/7	0.85	0.13	171,175,186,263	0
81	MG	AR	4201	1/1	0.85	0.33	74,74,74,74	0
81	MG	AR	4205	1/1	0.85	0.11	59,59,59,59	0
81	MG	1	3791	1/1	0.85	0.40	55,55,55,55	0
81	MG	AR	4210	1/1	0.85	0.27	67,67,67,67	0
81	MG	AR	4211	1/1	0.85	0.16	74,74,74,74	0
81	MG	AR	4000	1/1	0.85	0.27	75,75,75,75	0
81	MG	1	3961	1/1	0.85	0.16	88,88,88,88	0
80	OHX	1	3585	7/7	0.85	0.12	154,156,173,250	0
81	MG	1	4105	1/1	0.85	0.15	65,65,65,65	0
81	MG	AR	4221	1/1	0.85	0.14	81,81,81,81	0
81	MG	1	3802	1/1	0.85	0.38	57,57,57,57	0
81	MG	A	2047	1/1	0.85	0.26	74,74,74,74	0
80	OHX	AR	4235	7/7	0.85	0.14	158,175,182,268	0
80	OHX	sR	2180	7/7	0.85	0.14	154,158,168,250	0
81	MG	1	3972	1/1	0.85	0.23	60,60,60,60	0
80	OHX	AR	4236	7/7	0.85	0.34	140,148,150,187	7
80	OHX	1	3611	7/7	0.86	0.15	112,118,131,219	0
81	MG	1	4059	1/1	0.86	0.31	95,95,95,95	0
81	MG	1	4060	1/1	0.86	0.32	79,79,79,79	0
80	OHX	AR	3620	7/7	0.86	0.11	186,195,207,282	0
80	OHX	sR	2179	7/7	0.86	0.14	140,154,157,234	0
81	MG	AR	3862	1/1	0.86	0.20	43,43,43,43	0
81	MG	AR	3863	1/1	0.86	0.36	45,45,45,45	0
80	OHX	AR	3672	7/7	0.86	0.12	159,168,187,259	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3626	7/7	0.86	0.11	183,184,190,265	0
81	MG	AR	3881	1/1	0.86	0.32	53,53,53,53	0
81	MG	A	2026	1/1	0.86	0.10	65,65,65,65	0
80	OHX	A	2146	7/7	0.86	0.13	202,205,217,290	0
81	MG	1	3891	1/1	0.86	0.31	78,78,78,78	0
81	MG	sR	2099	1/1	0.86	0.20	68,68,68,68	0
81	MG	AR	4170	1/1	0.86	0.23	59,59,59,59	0
81	MG	AR	3895	1/1	0.86	0.22	49,49,49,49	0
81	MG	sR	2107	1/1	0.86	0.21	49,49,49,49	0
81	MG	AR	3899	1/1	0.86	0.14	51,51,51,51	0
81	MG	1	3748	1/1	0.86	0.30	44,44,44,44	0
81	MG	1	3987	1/1	0.86	0.18	70,70,70,70	0
80	OHX	1	3587	7/7	0.86	0.11	178,181,192,264	0
81	MG	1	3652	1/1	0.86	0.24	66,66,66,66	0
81	MG	1	4094	1/1	0.86	0.27	64,64,64,64	0
81	MG	1	3766	1/1	0.86	0.23	58,58,58,58	0
80	OHX	AR	3637	7/7	0.86	0.14	132,139,147,232	0
80	OHX	1	3589	7/7	0.86	0.12	152,155,162,243	0
81	MG	1	3994	1/1	0.86	0.27	70,70,70,70	0
80	OHX	A	2137	7/7	0.86	0.12	155,158,167,242	0
81	MG	AR	3752	1/1	0.86	0.24	59,59,59,59	0
81	MG	AR	4048	1/1	0.86	0.13	55,55,55,55	0
80	OHX	AR	3538	7/7	0.86	0.14	85,94,102,187	0
81	MG	1	3909	1/1	0.86	0.42	73,73,73,73	0
81	MG	1	4112	1/1	0.86	0.20	71,71,71,71	0
81	MG	sR	2132	1/1	0.86	0.10	71,71,71,71	0
81	MG	1	3780	1/1	0.86	0.25	55,55,55,55	0
81	MG	AR	4066	1/1	0.86	0.19	88,88,88,88	0
81	MG	1	3782	1/1	0.86	0.33	45,45,45,45	0
81	MG	AR	3764	1/1	0.86	0.16	50,50,50,50	0
81	MG	1	3783	1/1	0.86	0.36	44,44,44,44	0
80	OHX	A	2138	7/7	0.86	0.12	188,190,200,274	0
81	MG	AR	4075	1/1	0.86	0.21	61,61,61,61	0
80	OHX	1	3641	7/7	0.86	0.14	165,177,185,258	0
81	MG	AR	4223	1/1	0.86	0.16	69,69,69,69	0
81	MG	sR	2149	1/1	0.86	0.17	99,99,99,99	0
81	MG	1	3664	1/1	0.86	0.12	66,66,66,66	0
81	MG	4	217	1/1	0.86	0.35	69,69,69,69	0
81	MG	AR	3942	1/1	0.86	0.19	65,65,65,65	0
81	MG	AS	219	1/1	0.86	0.27	52,52,52,52	0
81	MG	A	2089	1/1	0.86	0.39	60,60,60,60	0
81	MG	A	2041	1/1	0.86	0.31	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	sR	2159	1/1	0.86	0.25	75,75,75,75	0
81	MG	1	3676	1/1	0.86	0.45	74,74,74,74	0
80	OHX	AR	3647	7/7	0.86	0.11	161,167,181,255	0
80	OHX	AR	4237	6/7	0.86	0.14	177,180,184,267	0
81	MG	4	230	1/1	0.86	0.27	86,86,86,86	0
80	OHX	AR	3582	7/7	0.86	0.12	136,142,154,237	0
81	MG	CI	301	1/1	0.86	0.20	67,67,67,67	0
81	MG	AR	4095	1/1	0.86	0.32	64,64,64,64	0
80	OHX	1	4129	7/7	0.86	0.39	144,144,152,167	7
80	OHX	AR	3652	7/7	0.86	0.12	175,176,185,274	0
80	OHX	sR	2024	7/7	0.86	0.10	206,211,220,297	0
81	MG	1	4033	1/1	0.86	0.17	92,92,92,92	0
80	OHX	AS	228	7/7	0.86	0.15	171,178,181,280	0
80	OHX	AR	3692	7/7	0.86	0.10	203,206,212,293	0
80	OHX	1	3577	7/7	0.86	0.14	163,164,177,254	0
80	OHX	sR	2028	7/7	0.86	0.12	205,208,219,290	0
81	MG	AR	3809	1/1	0.86	0.38	44,44,44,44	0
81	MG	AR	4120	1/1	0.86	0.24	64,64,64,64	0
81	MG	v	304	1/1	0.86	0.49	68,68,68,68	0
80	OHX	A	1981	7/7	0.86	0.12	160,166,172,243	0
81	MG	A	2057	1/1	0.86	0.24	76,76,76,76	0
80	OHX	A	1944	7/7	0.86	0.15	175,178,181,252	0
81	MG	d6	204	1/1	0.86	0.42	73,73,73,73	0
81	MG	1	3713	1/1	0.86	0.30	68,68,68,68	0
80	OHX	AR	3604	7/7	0.86	0.14	139,143,155,226	0
81	MG	AR	3988	1/1	0.86	0.20	68,68,68,68	0
80	OHX	AR	3697	7/7	0.86	0.11	175,183,187,258	0
80	OHX	sR	2034	7/7	0.86	0.11	240,246,252,326	0
81	MG	AR	3991	1/1	0.86	0.28	66,66,66,66	0
81	MG	AR	4143	1/1	0.86	0.33	68,68,68,68	0
80	OHX	A	1955	7/7	0.86	0.16	124,135,143,204	0
81	MG	sR	2067	1/1	0.86	0.28	89,89,89,89	0
80	OHX	A	1936	7/7	0.87	0.11	226,232,241,299	0
81	MG	AR	4037	1/1	0.87	0.43	73,73,73,73	0
81	MG	AR	4038	1/1	0.87	0.17	75,75,75,75	0
80	OHX	sR	2012	7/7	0.87	0.12	164,173,182,258	0
81	MG	1	3733	1/1	0.87	0.20	45,45,45,45	0
80	OHX	1	3624	7/7	0.87	0.15	195,200,210,292	0
80	OHX	sR	2014	7/7	0.87	0.12	138,149,161,243	0
81	MG	1	3736	1/1	0.87	0.31	47,47,47,47	0
80	OHX	AR	3659	7/7	0.87	0.12	145,152,165,248	0
81	MG	AR	3866	1/1	0.87	0.27	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	CX	202	1/1	0.87	0.27	43,43,43,43	0
81	MG	DO	202	1/1	0.87	0.28	84,84,84,84	0
81	MG	A	2074	1/1	0.87	0.07	80,80,80,80	0
81	MG	AR	3877	1/1	0.87	0.32	44,44,44,44	0
81	MG	sM	301	1/1	0.87	0.10	53,53,53,53	0
81	MG	AR	4062	1/1	0.87	0.18	70,70,70,70	0
81	MG	1	3743	1/1	0.87	0.46	44,44,44,44	0
81	MG	sR	2038	1/1	0.87	0.21	56,56,56,56	0
81	MG	AR	3879	1/1	0.87	0.41	48,48,48,48	0
81	MG	t	203	1/1	0.87	0.24	61,61,61,61	0
81	MG	v	302	1/1	0.87	0.15	48,48,48,48	0
81	MG	sR	2047	1/1	0.87	0.28	65,65,65,65	0
81	MG	AR	4070	1/1	0.87	0.26	89,89,89,89	0
81	MG	1	3747	1/1	0.87	0.29	43,43,43,43	0
80	OHX	AR	3661	7/7	0.87	0.10	202,206,210,276	0
81	MG	1	3906	1/1	0.87	0.15	65,65,65,65	0
81	MG	v	306	1/1	0.87	0.33	69,69,69,69	0
81	MG	1	3907	1/1	0.87	0.22	64,64,64,64	0
80	OHX	1	3610	7/7	0.87	0.14	202,204,215,292	0
81	MG	1	3912	1/1	0.87	0.18	60,60,60,60	0
80	OHX	AR	3668	7/7	0.87	0.10	192,200,207,285	0
80	OHX	1	3639	7/7	0.87	0.10	182,190,202,287	0
81	MG	z	203	1/1	0.87	0.19	74,74,74,74	0
81	MG	1	4036	1/1	0.87	0.23	75,75,75,75	0
81	MG	1	3916	1/1	0.87	0.09	71,71,71,71	0
81	MG	1	3919	1/1	0.87	0.30	68,68,68,68	0
81	MG	1	3767	1/1	0.87	0.35	55,55,55,55	0
81	MG	A	1987	1/1	0.87	0.17	54,54,54,54	0
81	MG	AR	3922	1/1	0.87	0.23	61,61,61,61	0
81	MG	A	2036	1/1	0.87	0.07	105,105,105,105	0
81	MG	1	3774	1/1	0.87	0.27	48,48,48,48	0
81	MG	AR	3925	1/1	0.87	0.13	50,50,50,50	0
80	OHX	1	3540	7/7	0.87	0.12	141,147,164,239	0
81	MG	A	2040	1/1	0.87	0.25	65,65,65,65	0
81	MG	1	3665	1/1	0.87	0.18	50,50,50,50	0
81	MG	1	3666	1/1	0.87	0.21	74,74,74,74	0
80	OHX	CL	304	6/7	0.87	0.12	201,209,217,305	0
81	MG	1	3941	1/1	0.87	0.15	70,70,70,70	0
80	OHX	A	2142	7/7	0.87	0.10	251,253,256,315	0
81	MG	1	3785	1/1	0.87	0.24	61,61,61,61	0
81	MG	sR	2102	1/1	0.87	0.15	74,74,74,74	0
81	MG	AR	3729	1/1	0.87	0.27	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	3941	1/1	0.87	0.10	55,55,55,55	0
81	MG	1	3673	1/1	0.87	0.26	48,48,48,48	0
81	MG	1	3675	1/1	0.87	0.37	57,57,57,57	0
81	MG	AR	4133	1/1	0.87	0.33	68,68,68,68	0
80	OHX	1	4182	7/7	0.87	0.11	166,181,193,274	0
81	MG	1	4067	1/1	0.87	0.27	47,47,47,47	0
81	MG	AR	3950	1/1	0.87	0.09	45,45,45,45	0
81	MG	AR	3951	1/1	0.87	0.14	47,47,47,47	0
81	MG	AR	3954	1/1	0.87	0.32	66,66,66,66	0
81	MG	AR	4144	1/1	0.87	0.20	72,72,72,72	0
81	MG	AR	3742	1/1	0.87	0.35	44,44,44,44	0
81	MG	sR	2125	1/1	0.87	0.21	77,77,77,77	0
80	OHX	AR	3639	7/7	0.87	0.13	168,180,188,268	0
81	MG	AR	4149	1/1	0.87	0.27	99,99,99,99	0
81	MG	1	3681	1/1	0.87	0.28	50,50,50,50	0
81	MG	A	2046	1/1	0.87	0.21	83,83,83,83	0
81	MG	AR	3963	1/1	0.87	0.12	51,51,51,51	0
81	MG	1	3685	1/1	0.87	0.20	62,62,62,62	0
81	MG	AR	3967	1/1	0.87	0.11	73,73,73,73	0
80	OHX	A	1940	7/7	0.87	0.15	160,164,170,240	0
81	MG	AR	4158	1/1	0.87	0.23	58,58,58,58	0
80	OHX	1	3605	7/7	0.87	0.10	174,187,197,271	0
81	MG	sR	2139	1/1	0.87	0.28	73,73,73,73	0
81	MG	sR	2142	1/1	0.87	0.27	65,65,65,65	0
81	MG	1	4083	1/1	0.87	0.25	69,69,69,69	0
81	MG	1	3689	1/1	0.87	0.24	65,65,65,65	0
81	MG	1	3962	1/1	0.87	0.29	75,75,75,75	0
81	MG	1	4088	1/1	0.87	0.37	75,75,75,75	0
81	MG	1	4089	1/1	0.87	0.28	59,59,59,59	0
80	OHX	1	4160	7/7	0.87	0.15	141,145,156,229	0
81	MG	A	2050	1/1	0.87	0.29	91,91,91,91	0
81	MG	A	2005	1/1	0.87	0.27	75,75,75,75	0
81	MG	AR	3773	1/1	0.87	0.25	45,45,45,45	0
80	OHX	AR	3592	7/7	0.87	0.16	156,160,166,259	0
81	MG	1	3840	1/1	0.87	0.10	49,49,49,49	0
81	MG	AR	4179	1/1	0.87	0.33	78,78,78,78	0
81	MG	1	4102	1/1	0.87	0.33	65,65,65,65	0
80	OHX	sR	1994	7/7	0.87	0.10	176,180,194,269	0
81	MG	1	3699	1/1	0.87	0.21	47,47,47,47	0
80	OHX	4	213	7/7	0.87	0.13	133,137,149,243	0
81	MG	A	2107	1/1	0.87	0.18	102,102,102,102	0
81	MG	1	3857	1/1	0.87	0.27	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	4116	1/1	0.87	0.28	57,57,57,57	0
81	MG	1	4117	1/1	0.87	0.17	59,59,59,59	0
80	OHX	1	3617	7/7	0.87	0.14	136,143,154,249	0
80	OHX	sR	2174	7/7	0.87	0.14	182,188,190,270	0
81	MG	1	4121	1/1	0.87	0.21	68,68,68,68	0
80	OHX	4	215	7/7	0.87	0.13	149,153,165,254	0
81	MG	3	213	1/1	0.87	0.12	73,73,73,73	0
81	MG	1	3715	1/1	0.87	0.43	71,71,71,71	0
81	MG	AR	3800	1/1	0.87	0.19	65,65,65,65	0
80	OHX	AR	3603	7/7	0.87	0.12	149,151,168,255	0
81	MG	AR	4215	1/1	0.87	0.11	73,73,73,73	0
81	MG	AR	4216	1/1	0.87	0.16	70,70,70,70	0
81	MG	1	3719	1/1	0.87	0.29	61,61,61,61	0
81	MG	4	216	1/1	0.87	0.37	78,78,78,78	0
81	MG	A	2014	1/1	0.87	0.27	68,68,68,68	0
81	MG	AR	4220	1/1	0.87	0.10	78,78,78,78	0
81	MG	AR	4018	1/1	0.87	0.29	69,69,69,69	0
80	OHX	sR	2006	7/7	0.87	0.12	182,185,191,264	0
82	K	AR	4239	1/1	0.87	0.10	79,79,79,79	0
80	OHX	1	4164	7/7	0.87	0.12	199,202,210,282	0
83	SPD	1	4106	10/10	0.87	0.20	45,45,45,46	0
83	SPD	AR	4200	10/10	0.87	0.18	47,50,53,53	0
81	MG	AS	216	1/1	0.87	0.12	68,68,68,68	0
81	MG	AR	4021	1/1	0.87	0.13	49,49,49,49	0
81	MG	AR	3834	1/1	0.87	0.23	46,46,46,46	0
80	OHX	1	3608	7/7	0.87	0.10	182,185,195,276	0
81	MG	4	223	1/1	0.87	0.24	54,54,54,54	0
81	MG	1	3878	1/1	0.87	0.13	91,91,91,91	0
81	MG	1	3879	1/1	0.87	0.19	52,52,52,52	0
81	MG	AT	221	1/1	0.88	0.26	60,60,60,60	0
81	MG	AR	3847	1/1	0.88	0.41	56,56,56,56	0
81	MG	AR	3849	1/1	0.88	0.30	43,43,43,43	0
81	MG	1	3756	1/1	0.88	0.28	46,46,46,46	0
80	OHX	1	3523	7/7	0.88	0.09	150,154,171,251	0
81	MG	1	4021	1/1	0.88	0.23	78,78,78,78	0
81	MG	CK	203	1/1	0.88	0.28	80,80,80,80	0
81	MG	1	3661	1/1	0.88	0.17	60,60,60,60	0
81	MG	AR	4044	1/1	0.88	0.14	59,59,59,59	0
81	MG	CO	201	1/1	0.88	0.20	71,71,71,71	0
81	MG	CP	303	1/1	0.88	0.13	63,63,63,63	0
81	MG	1	3762	1/1	0.88	0.23	42,42,42,42	0
81	MG	CR	206	1/1	0.88	0.31	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	3662	1/1	0.88	0.33	69,69,69,69	0
81	MG	CU	201	1/1	0.88	0.32	76,76,76,76	0
80	OHX	sR	1981	7/7	0.88	0.12	139,142,157,250	0
80	OHX	AR	3600	7/7	0.88	0.13	148,151,156,243	0
81	MG	AR	4058	1/1	0.88	0.14	74,74,74,74	0
81	MG	AR	3870	1/1	0.88	0.29	52,52,52,52	0
81	MG	1	4031	1/1	0.88	0.18	67,67,67,67	0
80	OHX	sR	1985	7/7	0.88	0.11	172,184,190,264	0
81	MG	A	2083	1/1	0.88	0.21	93,93,93,93	0
81	MG	1	4034	1/1	0.88	0.15	130,130,130,130	0
81	MG	sR	2039	1/1	0.88	0.18	74,74,74,74	0
81	MG	sR	2041	1/1	0.88	0.28	61,61,61,61	0
81	MG	AR	3882	1/1	0.88	0.35	50,50,50,50	0
81	MG	AR	3883	1/1	0.88	0.33	48,48,48,48	0
81	MG	A	2084	1/1	0.88	0.31	60,60,60,60	0
81	MG	x	203	1/1	0.88	0.34	85,85,85,85	0
81	MG	sR	2048	1/1	0.88	0.24	48,48,48,48	0
81	MG	1	3776	1/1	0.88	0.18	54,54,54,54	0
81	MG	AR	3894	1/1	0.88	0.22	42,42,42,42	0
80	OHX	1	3527	7/7	0.88	0.15	142,151,164,247	0
80	OHX	A	2144	7/7	0.88	0.12	154,166,173,250	0
81	MG	1	4043	1/1	0.88	0.17	60,60,60,60	0
81	MG	1	3926	1/1	0.88	0.32	87,87,87,87	0
81	MG	sR	2060	1/1	0.88	0.23	65,65,65,65	0
80	OHX	1	3548	7/7	0.88	0.16	123,135,140,234	0
80	OHX	AR	3662	7/7	0.88	0.11	180,188,199,273	0
81	MG	1	3678	1/1	0.88	0.25	46,46,46,46	0
81	MG	1	3679	1/1	0.88	0.13	88,88,88,88	0
80	OHX	AR	3663	7/7	0.88	0.14	142,144,150,247	0
81	MG	1	3935	1/1	0.88	0.47	73,73,73,73	0
81	MG	AR	3917	1/1	0.88	0.30	87,87,87,87	0
80	OHX	1	3550	7/7	0.88	0.12	168,173,178,258	0
81	MG	AR	3705	1/1	0.88	0.08	48,48,48,48	0
81	MG	AR	3706	1/1	0.88	0.16	60,60,60,60	0
81	MG	A	2091	1/1	0.88	0.38	52,52,52,52	0
81	MG	1	3799	1/1	0.88	0.22	47,47,47,47	0
80	OHX	AR	3616	7/7	0.88	0.13	133,143,159,245	0
80	OHX	1	4152	7/7	0.88	0.13	128,135,145,216	0
81	MG	AR	4109	1/1	0.88	0.22	60,60,60,60	0
80	OHX	A	2139	7/7	0.88	0.12	163,170,172,255	0
81	MG	AR	4116	1/1	0.88	0.16	69,69,69,69	0
81	MG	AR	4117	1/1	0.88	0.15	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	4118	1/1	0.88	0.24	63,63,63,63	0
80	OHX	c3	201	7/7	0.88	0.11	178,184,193,262	0
80	OHX	AR	3621	7/7	0.88	0.12	135,137,150,235	0
80	OHX	1	3592	7/7	0.88	0.13	146,153,160,241	0
80	OHX	AR	3630	7/7	0.88	0.11	155,162,173,263	0
81	MG	sR	2103	1/1	0.88	0.27	61,61,61,61	0
81	MG	sR	2105	1/1	0.88	0.14	67,67,67,67	0
81	MG	sR	2106	1/1	0.88	0.16	54,54,54,54	0
81	MG	1	4073	1/1	0.88	0.25	56,56,56,56	0
81	MG	1	3951	1/1	0.88	0.12	60,60,60,60	0
81	MG	1	3954	1/1	0.88	0.18	92,92,92,92	0
81	MG	1	3821	1/1	0.88	0.27	64,64,64,64	0
81	MG	AR	3940	1/1	0.88	0.20	81,81,81,81	0
81	MG	AR	3740	1/1	0.88	0.22	61,61,61,61	0
80	OHX	1	3627	7/7	0.88	0.12	170,178,186,264	0
80	OHX	A	1970	7/7	0.88	0.11	216,219,227,283	0
81	MG	AR	3944	1/1	0.88	0.17	44,44,44,44	0
80	OHX	sR	2017	7/7	0.88	0.11	149,153,160,230	0
81	MG	AR	3746	1/1	0.88	0.24	65,65,65,65	0
81	MG	sR	2121	1/1	0.88	0.36	69,69,69,69	0
80	OHX	1	3559	7/7	0.88	0.13	109,119,135,217	0
81	MG	1	3703	1/1	0.88	0.20	67,67,67,67	0
81	MG	AR	3952	1/1	0.88	0.19	56,56,56,56	0
81	MG	AR	3753	1/1	0.88	0.25	71,71,71,71	0
81	MG	AR	3756	1/1	0.88	0.15	46,46,46,46	0
81	MG	AR	3757	1/1	0.88	0.25	58,58,58,58	0
81	MG	sR	2130	1/1	0.88	0.11	88,88,88,88	0
81	MG	1	3843	1/1	0.88	0.34	57,57,57,57	0
81	MG	1	3845	1/1	0.88	0.16	53,53,53,53	0
81	MG	1	4093	1/1	0.88	0.21	58,58,58,58	0
81	MG	1	3847	1/1	0.88	0.10	65,65,65,65	0
80	OHX	AG	201	7/7	0.88	0.12	123,127,137,227	0
81	MG	1	3706	1/1	0.88	0.40	68,68,68,68	0
81	MG	AR	4164	1/1	0.88	0.36	67,67,67,67	0
81	MG	1	4099	1/1	0.88	0.30	60,60,60,60	0
80	OHX	AR	3682	7/7	0.88	0.16	182,185,195,290	0
80	OHX	AR	3495	7/7	0.88	0.11	115,120,131,216	0
81	MG	A	2001	1/1	0.88	0.14	60,60,60,60	0
81	MG	AR	3975	1/1	0.88	0.42	62,62,62,62	0
80	OHX	AR	3684	7/7	0.88	0.11	145,151,162,250	0
81	MG	A	2003	1/1	0.88	0.40	77,77,77,77	0
80	OHX	A	1939	7/7	0.88	0.15	126,131,135,213	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	3723	1/1	0.88	0.31	61,61,61,61	0
81	MG	1	4113	1/1	0.88	0.28	71,71,71,71	0
81	MG	1	3724	1/1	0.88	0.21	47,47,47,47	0
81	MG	A	2059	1/1	0.88	0.21	84,84,84,84	0
80	OHX	1	4171	5/7	0.88	0.13	141,142,146,234	0
81	MG	sR	2158	1/1	0.88	0.35	72,72,72,72	0
80	OHX	AT	211	7/7	0.88	0.12	138,144,152,234	0
80	OHX	A	2153	7/7	0.88	0.14	141,146,151,233	0
80	OHX	AT	215	7/7	0.88	0.11	160,168,176,267	0
80	OHX	1	3567	7/7	0.88	0.11	136,140,153,236	0
80	OHX	J	301	7/7	0.88	0.09	204,208,219,291	0
81	MG	3	216	1/1	0.88	0.09	72,72,72,72	0
81	MG	AR	4195	1/1	0.88	0.20	67,67,67,67	0
80	OHX	sR	2031	7/7	0.88	0.10	176,186,194,269	0
81	MG	sR	2171	1/1	0.88	0.38	73,73,73,73	0
81	MG	1	3998	1/1	0.88	0.15	98,98,98,98	0
81	MG	AR	3797	1/1	0.88	0.21	66,66,66,66	0
81	MG	AR	4202	1/1	0.88	0.31	48,48,48,48	0
81	MG	A	2013	1/1	0.88	0.32	57,57,57,57	0
80	OHX	A	1963	7/7	0.88	0.15	149,154,159,228	0
81	MG	AR	3801	1/1	0.88	0.22	45,45,45,45	0
81	MG	AR	3804	1/1	0.88	0.26	47,47,47,47	0
81	MG	1	4003	1/1	0.88	0.32	74,74,74,74	0
81	MG	A	2071	1/1	0.88	0.26	76,76,76,76	0
81	MG	AR	4005	1/1	0.88	0.12	69,69,69,69	0
81	MG	1	4007	1/1	0.88	0.24	51,51,51,51	0
81	MG	AR	4010	1/1	0.88	0.08	69,69,69,69	0
81	MG	d4	202	1/1	0.88	0.12	60,60,60,60	0
81	MG	AR	3816	1/1	0.88	0.36	56,56,56,56	0
81	MG	AR	3820	1/1	0.88	0.36	45,45,45,45	0
80	OHX	1	4178	7/7	0.88	0.15	116,118,124,173	7
80	OHX	AE	201	7/7	0.88	0.13	146,158,168,240	0
81	MG	1	4010	1/1	0.88	0.17	62,62,62,62	0
81	MG	AR	3833	1/1	0.88	0.29	42,42,42,42	0
81	MG	4	227	1/1	0.88	0.20	58,58,58,58	0
81	MG	4	228	1/1	0.88	0.17	64,64,64,64	0
81	MG	AR	3836	1/1	0.88	0.29	81,81,81,81	0
81	MG	AS	220	1/1	0.88	0.19	96,96,96,96	0
80	OHX	1	3521	7/7	0.88	0.14	140,143,151,231	0
81	MG	1	3749	1/1	0.88	0.32	49,49,49,49	0
81	MG	j	303	1/1	0.88	0.18	56,56,56,56	0
81	MG	1	3754	1/1	0.88	0.44	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AT	219	1/1	0.88	0.46	67,67,67,67	0
81	MG	k	401	1/1	0.89	0.20	53,53,53,53	0
80	OHX	AR	3577	7/7	0.89	0.13	137,139,143,229	0
80	OHX	AR	3676	7/7	0.89	0.10	152,168,179,259	0
81	MG	1	3842	1/1	0.89	0.07	53,53,53,53	0
81	MG	sR	2045	1/1	0.89	0.30	62,62,62,62	0
80	OHX	1	3618[A]	7/7	0.89	0.15	133,139,147,184	7
81	MG	1	3726	1/1	0.89	0.30	60,60,60,60	0
80	OHX	1	3618[B]	7/7	0.89	0.15	131,135,140,170	7
81	MG	AR	4127	1/1	0.89	0.15	72,72,72,72	0
81	MG	AR	3802	1/1	0.89	0.39	52,52,52,52	0
81	MG	1	3952	1/1	0.89	0.25	56,56,56,56	0
80	OHX	AR	3589	7/7	0.89	0.12	135,145,153,237	0
81	MG	sR	2057	1/1	0.89	0.32	77,77,77,77	0
80	OHX	sR	2007	7/7	0.89	0.12	173,178,184,260	0
81	MG	AR	3813	1/1	0.89	0.38	42,42,42,42	0
81	MG	AR	3814	1/1	0.89	0.26	43,43,43,43	0
81	MG	A	2029	1/1	0.89	0.26	63,63,63,63	0
81	MG	AR	4137	1/1	0.89	0.20	58,58,58,58	0
81	MG	1	4057	1/1	0.89	0.13	76,76,76,76	0
81	MG	1	3658	1/1	0.89	0.09	55,55,55,55	0
80	OHX	AR	4234	7/7	0.89	0.27	90,91,94,119	7
80	OHX	1	4141	7/7	0.89	0.17	85,88,99,175	0
81	MG	AR	3830	1/1	0.89	0.33	46,46,46,46	0
81	MG	1	3860	1/1	0.89	0.07	72,72,72,72	0
80	OHX	1	3596	7/7	0.89	0.10	169,180,185,268	0
80	OHX	s8	302	7/7	0.89	0.10	204,208,219,295	0
80	OHX	1	3518	7/7	0.89	0.11	123,129,140,220	0
81	MG	AR	4152	1/1	0.89	0.33	75,75,75,75	0
81	MG	sR	2087	1/1	0.89	0.35	65,65,65,65	0
81	MG	1	4071	1/1	0.89	0.30	45,45,45,45	0
81	MG	1	4072	1/1	0.89	0.31	48,48,48,48	0
80	OHX	A	1938	7/7	0.89	0.13	112,117,124,205	0
81	MG	1	3746	1/1	0.89	0.33	51,51,51,51	0
81	MG	A	2038	1/1	0.89	0.33	67,67,67,67	0
80	OHX	1	3555	7/7	0.89	0.10	150,163,168,254	0
81	MG	1	3669	1/1	0.89	0.36	68,68,68,68	0
81	MG	1	4081	1/1	0.89	0.21	54,54,54,54	0
81	MG	AR	3852	1/1	0.89	0.26	54,54,54,54	0
80	OHX	A	1960	7/7	0.89	0.09	171,176,186,255	0
81	MG	AR	4001	1/1	0.89	0.20	75,75,75,75	0
81	MG	AR	3703	1/1	0.89	0.18	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	4084	1/1	0.89	0.25	51,51,51,51	0
81	MG	1	3755	1/1	0.89	0.27	43,43,43,43	0
80	OHX	1	3582	7/7	0.89	0.13	139,145,160,243	0
81	MG	1	3880	1/1	0.89	0.16	44,44,44,44	0
81	MG	AR	3711	1/1	0.89	0.21	47,47,47,47	0
80	OHX	1	3583	7/7	0.89	0.11	142,155,163,239	0
81	MG	AR	4015	1/1	0.89	0.18	63,63,63,63	0
81	MG	AR	3875	1/1	0.89	0.23	47,47,47,47	0
81	MG	AR	3876	1/1	0.89	0.29	43,43,43,43	0
81	MG	sR	2117	1/1	0.89	0.20	70,70,70,70	0
81	MG	1	4091	1/1	0.89	0.35	61,61,61,61	0
81	MG	A	2093	1/1	0.89	0.31	60,60,60,60	0
81	MG	A	1994	1/1	0.89	0.19	78,78,78,78	0
81	MG	AR	3723	1/1	0.89	0.19	62,62,62,62	0
81	MG	1	3893	1/1	0.89	0.17	59,59,59,59	0
81	MG	sR	2123	1/1	0.89	0.17	79,79,79,79	0
80	OHX	AR	3605	7/7	0.89	0.11	107,114,123,223	0
81	MG	AR	4027	1/1	0.89	0.18	55,55,55,55	0
81	MG	AR	4028	1/1	0.89	0.28	68,68,68,68	0
81	MG	AR	4029	1/1	0.89	0.10	72,72,72,72	0
80	OHX	1	3584	7/7	0.89	0.10	136,139,152,232	0
81	MG	AR	3889	1/1	0.89	0.35	62,62,62,62	0
80	OHX	AR	3608	7/7	0.89	0.12	127,132,140,231	0
81	MG	AR	3731	1/1	0.89	0.25	62,62,62,62	0
81	MG	1	4100	1/1	0.89	0.18	65,65,65,65	0
81	MG	1	3770	1/1	0.89	0.24	46,46,46,46	0
81	MG	AR	3896	1/1	0.89	0.19	63,63,63,63	0
80	OHX	AR	3609	7/7	0.89	0.10	150,156,164,247	0
80	OHX	CK	202	7/7	0.89	0.10	166,171,179,257	0
81	MG	1	3903	1/1	0.89	0.14	54,54,54,54	0
81	MG	AR	3743	1/1	0.89	0.28	55,55,55,55	0
80	OHX	AR	3613	7/7	0.89	0.15	134,138,143,241	0
80	OHX	A	2127	7/7	0.89	0.12	162,169,178,245	0
80	OHX	1	3528	7/7	0.89	0.12	127,130,142,226	0
81	MG	AR	4222	1/1	0.89	0.23	50,50,50,50	0
80	OHX	sR	1952	7/7	0.89	0.09	190,195,203,270	0
81	MG	AR	4059	1/1	0.89	0.23	67,67,67,67	0
81	MG	sR	2151	1/1	0.89	0.29	83,83,83,83	0
81	MG	AS	215	1/1	0.89	0.14	66,66,66,66	0
81	MG	1	4114	1/1	0.89	0.51	67,67,67,67	0
80	OHX	1	3613	7/7	0.89	0.12	157,160,175,254	0
81	MG	1	3910	1/1	0.89	0.10	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3664	7/7	0.89	0.11	152,154,160,246	0
80	OHX	A	1950	7/7	0.89	0.12	172,183,183,255	0
81	MG	AR	4068	1/1	0.89	0.12	44,44,44,44	0
80	OHX	AR	3622	7/7	0.89	0.11	132,132,143,220	0
81	MG	1	3788	1/1	0.89	0.36	89,89,89,89	0
81	MG	AS	227	1/1	0.89	0.26	62,62,62,62	0
80	OHX	1	3544	7/7	0.89	0.15	137,140,143,228	0
80	OHX	1	3572	7/7	0.89	0.11	181,187,199,274	0
81	MG	AT	220	1/1	0.89	0.18	58,58,58,58	0
81	MG	D	301	1/1	0.89	0.25	71,71,71,71	0
80	OHX	sR	1986	7/7	0.89	0.13	149,157,169,239	0
81	MG	AR	3768	1/1	0.89	0.33	70,70,70,70	0
81	MG	CF	401	1/1	0.89	0.19	72,72,72,72	0
81	MG	1	3923	1/1	0.89	0.21	50,50,50,50	0
80	OHX	AR	3634	7/7	0.89	0.13	177,183,191,276	0
80	OHX	1	3507	7/7	0.89	0.15	103,111,115,204	0
81	MG	1	3711	1/1	0.89	0.17	73,73,73,73	0
81	MG	c1	201	1/1	0.89	0.28	83,83,83,83	0
81	MG	1	4030	1/1	0.89	0.16	59,59,59,59	0
80	OHX	sR	1995	7/7	0.89	0.10	172,174,177,256	0
81	MG	1	3813	1/1	0.89	0.29	49,49,49,49	0
81	MG	c8	201	1/1	0.89	0.12	70,70,70,70	0
81	MG	A	2016	1/1	0.89	0.29	56,56,56,56	0
81	MG	A	2017	1/1	0.89	0.28	60,60,60,60	0
81	MG	CQ	203	1/1	0.89	0.32	84,84,84,84	0
81	MG	CR	201	1/1	0.89	0.27	56,56,56,56	0
81	MG	CR	204	1/1	0.89	0.37	48,48,48,48	0
81	MG	1	3645	1/1	0.89	0.22	60,60,60,60	0
81	MG	1	3646	1/1	0.89	0.11	55,55,55,55	0
81	MG	d9	102	1/1	0.89	0.10	92,92,92,92	0
82	K	A	2160	1/1	0.89	0.23	103,103,103,103	0
81	MG	AR	4097	1/1	0.89	0.16	85,85,85,85	0
81	MG	AR	3785	1/1	0.89	0.33	66,66,66,66	0
81	MG	AR	3946	1/1	0.89	0.24	47,47,47,47	0
81	MG	1	3720	1/1	0.89	0.17	55,55,55,55	0
81	MG	DQ	205	1/1	0.89	0.19	53,53,53,53	0
80	OHX	sR	1997	7/7	0.89	0.10	218,222,230,297	0
81	MG	4	234	1/1	0.89	0.35	62,62,62,62	0
81	MG	AR	3789	1/1	0.89	0.14	55,55,55,55	0
81	MG	j	301	1/1	0.89	0.30	52,52,52,52	0
81	MG	AR	4111	1/1	0.89	0.19	54,54,54,54	0
81	MG	1	3722	1/1	0.89	0.17	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	sR	2040	1/1	0.89	0.42	66,66,66,66	0
80	OHX	1	4169	7/7	0.90	0.09	195,201,204,268	0
80	OHX	sR	1972	7/7	0.90	0.11	122,134,139,211	0
81	MG	x	204	1/1	0.90	0.28	43,43,43,43	0
81	MG	1	3642	1/1	0.90	0.29	57,57,57,57	0
81	MG	CQ	201	1/1	0.90	0.18	81,81,81,81	0
81	MG	1	3643	1/1	0.90	0.17	50,50,50,50	0
80	OHX	1	3551	7/7	0.90	0.11	194,196,198,260	0
80	OHX	sR	1974	7/7	0.90	0.12	123,129,133,209	0
81	MG	CR	205	1/1	0.90	0.17	41,41,41,41	0
80	OHX	sR	1977	7/7	0.90	0.11	143,147,160,220	0
80	OHX	A	1971	7/7	0.90	0.13	129,130,140,204	0
81	MG	1	3750	1/1	0.90	0.29	52,52,52,52	0
81	MG	1	3752	1/1	0.90	0.28	55,55,55,55	0
81	MG	DI	201	1/1	0.90	0.24	55,55,55,55	0
80	OHX	AR	3557	7/7	0.90	0.14	102,104,114,197	0
81	MG	DP	101	1/1	0.90	0.41	59,59,59,59	0
80	OHX	s4	301	7/7	0.90	0.11	154,162,171,245	0
80	OHX	AR	3566	7/7	0.90	0.13	122,131,146,210	0
81	MG	AR	3893	1/1	0.90	0.33	44,44,44,44	0
81	MG	1	3911	1/1	0.90	0.20	63,63,63,63	0
80	OHX	sR	1983	7/7	0.90	0.11	140,143,151,227	0
80	OHX	d4	201	7/7	0.90	0.10	170,172,175,257	0
81	MG	AR	4083	1/1	0.90	0.30	74,74,74,74	0
81	MG	AR	4084	1/1	0.90	0.11	71,71,71,71	0
80	OHX	AR	3571	7/7	0.90	0.11	106,110,118,207	0
81	MG	1	4054	1/1	0.90	0.12	73,73,73,73	0
81	MG	1	4055	1/1	0.90	0.10	63,63,63,63	0
81	MG	AR	4088	1/1	0.90	0.20	63,63,63,63	0
81	MG	AR	3710	1/1	0.90	0.26	58,58,58,58	0
81	MG	1	3764	1/1	0.90	0.13	49,49,49,49	0
81	MG	1	3917	1/1	0.90	0.17	69,69,69,69	0
81	MG	AR	3715	1/1	0.90	0.23	56,56,56,56	0
81	MG	AR	3716	1/1	0.90	0.11	44,44,44,44	0
81	MG	1	4058	1/1	0.90	0.21	63,63,63,63	0
81	MG	1	3918	1/1	0.90	0.30	60,60,60,60	0
81	MG	A	1984	1/1	0.90	0.17	63,63,63,63	0
81	MG	1	3657	1/1	0.90	0.34	63,63,63,63	0
80	OHX	A	2135	7/7	0.90	0.10	171,176,188,248	0
81	MG	1	4066	1/1	0.90	0.11	48,48,48,48	0
80	OHX	sR	1987	7/7	0.90	0.11	150,159,166,242	0
80	OHX	Q	201	7/7	0.90	0.10	190,194,196,261	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	sR	1993	7/7	0.90	0.11	138,143,154,226	0
81	MG	1	3927	1/1	0.90	0.30	88,88,88,88	0
81	MG	AR	4115	1/1	0.90	0.08	96,96,96,96	0
81	MG	A	2063	1/1	0.90	0.28	63,63,63,63	0
81	MG	A	1991	1/1	0.90	0.42	60,60,60,60	0
81	MG	AR	3739	1/1	0.90	0.24	43,43,43,43	0
81	MG	sR	2070	1/1	0.90	0.16	68,68,68,68	0
80	OHX	1	4174	7/7	0.90	0.09	141,146,163,234	0
81	MG	AR	3934	1/1	0.90	0.21	65,65,65,65	0
81	MG	1	4075	1/1	0.90	0.37	69,69,69,69	0
81	MG	1	3779	1/1	0.90	0.35	61,61,61,61	0
81	MG	AR	4126	1/1	0.90	0.17	50,50,50,50	0
81	MG	sR	2080	1/1	0.90	0.29	62,62,62,62	0
80	OHX	1	3524	7/7	0.90	0.09	165,172,176,250	0
81	MG	sR	2086	1/1	0.90	0.39	57,57,57,57	0
80	OHX	1	4176	7/7	0.90	0.11	151,152,154,220	7
81	MG	1	3937	1/1	0.90	0.10	59,59,59,59	0
81	MG	A	2068	1/1	0.90	0.07	64,64,64,64	0
81	MG	sR	2090	1/1	0.90	0.30	53,53,53,53	0
81	MG	1	3670	1/1	0.90	0.12	61,61,61,61	0
81	MG	sR	2092	1/1	0.90	0.22	54,54,54,54	0
81	MG	sR	2093	1/1	0.90	0.20	100,100,100,100	0
81	MG	sR	2094	1/1	0.90	0.20	61,61,61,61	0
80	OHX	AR	3650	7/7	0.90	0.10	180,184,191,277	0
81	MG	AR	3754	1/1	0.90	0.31	45,45,45,45	0
81	MG	1	4086	1/1	0.90	0.23	68,68,68,68	0
81	MG	1	3787	1/1	0.90	0.34	45,45,45,45	0
81	MG	AR	4139	1/1	0.90	0.28	62,62,62,62	0
80	OHX	A	2136	7/7	0.90	0.12	147,150,153,231	0
81	MG	1	3674	1/1	0.90	0.18	50,50,50,50	0
80	OHX	1	3563	7/7	0.90	0.11	164,168,182,261	0
81	MG	1	3794	1/1	0.90	0.13	59,59,59,59	0
80	OHX	sR	2004	7/7	0.90	0.12	144,147,154,241	0
81	MG	1	3796	1/1	0.90	0.22	57,57,57,57	0
80	OHX	1	4179	7/7	0.90	0.09	199,203,215,280	0
81	MG	AR	3957	1/1	0.90	0.19	45,45,45,45	0
81	MG	AR	3767	1/1	0.90	0.20	46,46,46,46	0
81	MG	AR	3959	1/1	0.90	0.20	59,59,59,59	0
81	MG	1	3801	1/1	0.90	0.19	44,44,44,44	0
80	OHX	AR	3596	7/7	0.90	0.12	156,157,164,247	0
80	OHX	AR	3655	7/7	0.90	0.14	116,123,132,226	0
81	MG	A	2076	1/1	0.90	0.17	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	3477	7/7	0.90	0.12	201,208,214,305	0
81	MG	AR	3969	1/1	0.90	0.13	57,57,57,57	0
81	MG	AR	4160	1/1	0.90	0.38	63,63,63,63	0
81	MG	AR	4161	1/1	0.90	0.24	45,45,45,45	0
81	MG	AR	3970	1/1	0.90	0.38	75,75,75,75	0
80	OHX	AR	3599	7/7	0.90	0.09	158,166,176,250	0
80	OHX	1	4181	7/7	0.90	0.15	135,137,149,230	0
81	MG	1	3816	1/1	0.90	0.38	53,53,53,53	0
80	OHX	AR	3660	7/7	0.90	0.08	174,186,191,259	0
80	OHX	1	3491	7/7	0.90	0.12	118,121,125,208	0
80	OHX	3	204	7/7	0.90	0.12	143,145,149,222	0
81	MG	AR	4171	1/1	0.90	0.21	44,44,44,44	0
80	OHX	1	3569	7/7	0.90	0.11	131,132,138,228	0
81	MG	AR	3784	1/1	0.90	0.26	47,47,47,47	0
81	MG	sR	2133	1/1	0.90	0.18	71,71,71,71	0
81	MG	1	4115	1/1	0.90	0.19	53,53,53,53	0
80	OHX	1	3591	7/7	0.90	0.13	142,150,156,234	0
81	MG	1	3833	1/1	0.90	0.10	52,52,52,52	0
80	OHX	AR	3666	7/7	0.90	0.09	199,203,204,272	0
80	OHX	1	4139	7/7	0.90	0.14	97,102,111,190	0
81	MG	sR	2141	1/1	0.90	0.10	57,57,57,57	0
80	OHX	4	210	7/7	0.90	0.12	112,118,124,222	0
80	OHX	1	3571	7/7	0.90	0.13	161,163,170,260	0
81	MG	A	2018	1/1	0.90	0.28	55,55,55,55	0
81	MG	AR	3794	1/1	0.90	0.37	76,76,76,76	0
81	MG	3	214	1/1	0.90	0.16	61,61,61,61	0
81	MG	1	3844	1/1	0.90	0.25	44,44,44,44	0
81	MG	1	3702	1/1	0.90	0.19	63,63,63,63	0
80	OHX	AR	3612	7/7	0.90	0.16	116,120,128,220	0
81	MG	1	3849	1/1	0.90	0.29	63,63,63,63	0
80	OHX	AS	208	7/7	0.90	0.12	113,117,119,196	0
81	MG	sR	2153	1/1	0.90	0.20	83,83,83,83	0
81	MG	A	2022	1/1	0.90	0.23	66,66,66,66	0
81	MG	AR	3803	1/1	0.90	0.31	41,41,41,41	0
80	OHX	AR	3671	7/7	0.90	0.10	151,158,167,246	0
81	MG	AR	3808	1/1	0.90	0.15	52,52,52,52	0
80	OHX	1	3501	7/7	0.90	0.10	120,131,141,235	0
80	OHX	1	3622	7/7	0.90	0.15	141,144,149,232	0
81	MG	AR	3812	1/1	0.90	0.17	52,52,52,52	0
80	OHX	AR	3674	7/7	0.90	0.09	221,231,236,302	0
81	MG	1	3716	1/1	0.90	0.20	48,48,48,48	0
81	MG	1	3861	1/1	0.90	0.13	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	3573	7/7	0.90	0.11	137,139,146,218	0
81	MG	1	3864	1/1	0.90	0.32	89,89,89,89	0
81	MG	4	229	1/1	0.90	0.24	62,62,62,62	0
81	MG	sR	2170	1/1	0.90	0.17	48,48,48,48	0
81	MG	AR	3827	1/1	0.90	0.33	58,58,58,58	0
81	MG	sR	2172	1/1	0.90	0.17	59,59,59,59	0
81	MG	A	2101	1/1	0.90	0.24	72,72,72,72	0
81	MG	1	4006	1/1	0.90	0.27	62,62,62,62	0
81	MG	4	233	1/1	0.90	0.11	56,56,56,56	0
81	MG	AS	214	1/1	0.90	0.39	45,45,45,45	0
80	OHX	1	3547	7/7	0.90	0.14	133,143,159,227	0
80	OHX	A	1964	7/7	0.90	0.09	149,157,163,232	0
81	MG	1	3869	1/1	0.90	0.23	64,64,64,64	0
80	OHX	CG	302	7/7	0.90	0.09	160,163,174,248	0
80	OHX	1	4162	7/7	0.90	0.12	109,118,135,226	0
80	OHX	AR	3623	7/7	0.90	0.09	167,181,184,248	0
80	OHX	CL	302	7/7	0.90	0.11	133,140,150,237	0
80	OHX	1	3517	7/7	0.90	0.10	163,170,175,242	0
80	OHX	AR	3681	7/7	0.90	0.10	179,182,192,267	0
81	MG	AR	4035	1/1	0.90	0.19	62,62,62,62	0
81	MG	AT	216	1/1	0.90	0.20	61,61,61,61	0
81	MG	AT	217	1/1	0.90	0.22	51,51,51,51	0
80	OHX	1	4166	7/7	0.90	0.10	147,159,171,247	0
81	MG	t	201	1/1	0.90	0.12	65,65,65,65	0
80	OHX	sR	1951	7/7	0.90	0.13	117,124,127,196	0
81	MG	DA	201	1/1	0.90	0.18	71,71,71,71	0
81	MG	AT	222	1/1	0.90	0.14	86,86,86,86	0
81	MG	AT	225	1/1	0.90	0.11	52,52,52,52	0
81	MG	AT	226	1/1	0.90	0.31	78,78,78,78	0
81	MG	AR	3857	1/1	0.90	0.34	45,45,45,45	0
80	OHX	1	3604	7/7	0.90	0.12	136,139,153,235	0
85	ZN	c	101	1/1	0.90	0.07	188,188,188,188	0
81	MG	1	3889	1/1	0.90	0.17	79,79,79,79	0
81	MG	CF	402	1/1	0.90	0.20	64,64,64,64	0
81	MG	1	3890	1/1	0.90	0.29	65,65,65,65	0
80	OHX	sR	1961	7/7	0.90	0.15	111,118,132,209	0
81	MG	AR	4050	1/1	0.90	0.17	65,65,65,65	0
81	MG	A	2043	1/1	0.90	0.17	57,57,57,57	0
81	MG	AR	3867	1/1	0.90	0.36	48,48,48,48	0
81	MG	AR	3987	1/1	0.91	0.18	51,51,51,51	0
80	OHX	1	3601	7/7	0.91	0.10	143,151,161,251	0
81	MG	AR	4148	1/1	0.91	0.23	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	sR	2053	1/1	0.91	0.28	52,52,52,52	0
81	MG	1	3959	1/1	0.91	0.09	55,55,55,55	0
81	MG	1	3858	1/1	0.91	0.21	56,56,56,56	0
80	OHX	sR	2022	7/7	0.91	0.10	145,148,156,245	0
80	OHX	1	3508	7/7	0.91	0.11	114,116,123,202	0
80	OHX	h	401	7/7	0.91	0.09	175,176,182,249	0
81	MG	1	4078	1/1	0.91	0.38	54,54,54,54	0
80	OHX	1	3516	7/7	0.91	0.11	115,122,134,216	0
81	MG	sR	2063	1/1	0.91	0.20	60,60,60,60	0
81	MG	1	4080	1/1	0.91	0.22	56,56,56,56	0
80	OHX	S	201	7/7	0.91	0.11	161,163,165,233	0
80	OHX	sR	1959	7/7	0.91	0.10	125,133,142,228	0
80	OHX	AR	3601	7/7	0.91	0.12	119,128,136,223	0
81	MG	AR	3709	1/1	0.91	0.23	65,65,65,65	0
80	OHX	A	1969	7/7	0.91	0.10	155,157,167,235	0
81	MG	AR	3855	1/1	0.91	0.29	42,42,42,42	0
80	OHX	sR	1966	7/7	0.91	0.09	98,102,117,190	0
80	OHX	1	3606	7/7	0.91	0.11	152,154,160,238	0
81	MG	AR	4009	1/1	0.91	0.20	64,64,64,64	0
81	MG	sR	2076	1/1	0.91	0.31	58,58,58,58	0
81	MG	AR	4168	1/1	0.91	0.20	59,59,59,59	0
80	OHX	1	3607	7/7	0.91	0.13	151,153,164,243	0
81	MG	1	3873	1/1	0.91	0.17	67,67,67,67	0
81	MG	sR	2085	1/1	0.91	0.21	52,52,52,52	0
81	MG	1	4090	1/1	0.91	0.18	74,74,74,74	0
81	MG	AR	3718	1/1	0.91	0.15	52,52,52,52	0
81	MG	1	3758	1/1	0.91	0.28	45,45,45,45	0
81	MG	1	3668	1/1	0.91	0.24	53,53,53,53	0
80	OHX	1	3519	7/7	0.91	0.12	117,121,128,206	0
80	OHX	AR	3658	7/7	0.91	0.11	146,152,164,250	0
80	OHX	sR	1978	7/7	0.91	0.13	137,140,150,226	0
81	MG	1	3989	1/1	0.91	0.11	100,100,100,100	0
81	MG	AR	4181	1/1	0.91	0.16	62,62,62,62	0
81	MG	1	3765	1/1	0.91	0.31	46,46,46,46	0
80	OHX	CE	402	7/7	0.91	0.10	150,157,168,244	0
81	MG	AR	3733	1/1	0.91	0.20	43,43,43,43	0
81	MG	1	3882	1/1	0.91	0.11	45,45,45,45	0
80	OHX	A	1937	7/7	0.91	0.11	143,147,152,220	0
81	MG	AR	3884	1/1	0.91	0.08	44,44,44,44	0
81	MG	AR	3886	1/1	0.91	0.08	50,50,50,50	0
81	MG	AR	3736	1/1	0.91	0.26	48,48,48,48	0
81	MG	sR	2104	1/1	0.91	0.23	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	3885	1/1	0.91	0.27	61,61,61,61	0
81	MG	AR	4197	1/1	0.91	0.12	61,61,61,61	0
81	MG	1	3995	1/1	0.91	0.39	60,60,60,60	0
81	MG	AR	4199	1/1	0.91	0.22	52,52,52,52	0
81	MG	1	3888	1/1	0.91	0.10	68,68,68,68	0
80	OHX	AR	3494	7/7	0.91	0.14	96,106,111,202	0
80	OHX	1	3635	7/7	0.91	0.07	233,239,246,309	0
80	OHX	1	3479	7/7	0.91	0.12	94,98,109,178	0
81	MG	AR	4208	1/1	0.91	0.28	85,85,85,85	0
81	MG	AR	4209	1/1	0.91	0.15	64,64,64,64	0
80	OHX	AR	3615	7/7	0.91	0.09	140,156,161,232	0
81	MG	AR	3897	1/1	0.91	0.24	58,58,58,58	0
80	OHX	AR	3665	7/7	0.91	0.10	158,162,176,252	0
80	OHX	sR	1989	7/7	0.91	0.12	136,151,153,225	0
81	MG	AR	3748	1/1	0.91	0.16	44,44,44,44	0
81	MG	AR	4051	1/1	0.91	0.13	51,51,51,51	0
80	OHX	sR	2185	6/7	0.91	0.09	150,154,156,253	0
80	OHX	AR	3523	7/7	0.91	0.11	73,82,109,172	0
81	MG	1	3899	1/1	0.91	0.14	88,88,88,88	0
80	OHX	sR	1992	7/7	0.91	0.11	125,129,133,208	0
81	MG	AR	3909	1/1	0.91	0.19	67,67,67,67	0
80	OHX	1	3482	7/7	0.91	0.12	121,125,138,208	0
81	MG	AR	4063	1/1	0.91	0.34	76,76,76,76	0
81	MG	3	208	1/1	0.91	0.17	70,70,70,70	0
81	MG	3	212	1/1	0.91	0.22	61,61,61,61	0
80	OHX	AR	3619	7/7	0.91	0.11	146,151,156,234	0
81	MG	1	4013	1/1	0.91	0.19	56,56,56,56	0
80	OHX	AR	3535	7/7	0.91	0.13	98,102,109,199	0
81	MG	AR	3921	1/1	0.91	0.21	45,45,45,45	0
81	MG	1	3691	1/1	0.91	0.14	64,64,64,64	0
80	OHX	Rb	401	7/7	0.91	0.09	223,226,233,295	0
81	MG	sR	2140	1/1	0.91	0.11	76,76,76,76	0
81	MG	AS	222	1/1	0.91	0.12	66,66,66,66	0
81	MG	A	2102	1/1	0.91	0.44	67,67,67,67	0
81	MG	1	3908	1/1	0.91	0.11	72,72,72,72	0
81	MG	AS	226	1/1	0.91	0.21	54,54,54,54	0
80	OHX	1	3487	7/7	0.91	0.14	98,105,111,183	0
81	MG	1	3790	1/1	0.91	0.38	45,45,45,45	0
80	OHX	AR	3545	7/7	0.91	0.11	125,129,136,222	0
81	MG	1	3697	1/1	0.91	0.26	44,44,44,44	0
81	MG	1	3698	1/1	0.91	0.24	48,48,48,48	0
80	OHX	sR	2000	7/7	0.91	0.09	131,134,139,217	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	3915	1/1	0.91	0.32	51,51,51,51	0
80	OHX	AR	3554	7/7	0.91	0.09	116,119,127,220	0
81	MG	AT	223	1/1	0.91	0.11	62,62,62,62	0
81	MG	1	3800	1/1	0.91	0.29	46,46,46,46	0
80	OHX	AR	3555	7/7	0.91	0.12	103,112,116,201	0
81	MG	AR	3782	1/1	0.91	0.43	74,74,74,74	0
81	MG	1	4035	1/1	0.91	0.21	125,125,125,125	0
81	MG	4	231	1/1	0.91	0.08	71,71,71,71	0
81	MG	A	1983	1/1	0.91	0.28	54,54,54,54	0
80	OHX	1	3568	7/7	0.91	0.10	132,134,148,217	0
80	OHX	AR	3631	7/7	0.91	0.10	110,111,123,205	0
80	OHX	1	3529	7/7	0.91	0.12	124,130,135,222	0
80	OHX	1	3570	7/7	0.91	0.13	107,114,121,196	0
80	OHX	A	2140	7/7	0.91	0.10	150,158,169,240	0
81	MG	AR	4104	1/1	0.91	0.20	71,71,71,71	0
81	MG	A	1990	1/1	0.91	0.11	59,59,59,59	0
81	MG	CP	301	1/1	0.91	0.09	56,56,56,56	0
81	MG	AB	201	1/1	0.91	0.16	61,61,61,61	0
81	MG	AR	3793	1/1	0.91	0.12	44,44,44,44	0
81	MG	AB	203	1/1	0.91	0.22	70,70,70,70	0
81	MG	o	301	1/1	0.91	0.09	59,59,59,59	0
80	OHX	A	1961	7/7	0.91	0.10	198,203,209,275	0
81	MG	CR	203	1/1	0.91	0.26	60,60,60,60	0
81	MG	A	1992	1/1	0.91	0.19	58,58,58,58	0
81	MG	AR	3798	1/1	0.91	0.19	49,49,49,49	0
81	MG	1	3824	1/1	0.91	0.28	44,44,44,44	0
81	MG	A	2055	1/1	0.91	0.09	79,79,79,79	0
81	MG	CE	403	1/1	0.91	0.38	43,43,43,43	0
80	OHX	sR	2010	7/7	0.91	0.11	152,162,171,238	0
80	OHX	1	4143	7/7	0.91	0.12	100,102,110,173	0
81	MG	c9	201	1/1	0.91	0.14	78,78,78,78	0
81	MG	DL	101	1/1	0.91	0.28	63,63,63,63	0
81	MG	AR	4124	1/1	0.91	0.36	104,104,104,104	0
81	MG	d3	203	1/1	0.91	0.22	52,52,52,52	0
80	OHX	1	3506	7/7	0.91	0.12	88,102,123,192	0
80	OHX	3	205	7/7	0.91	0.11	134,140,144,214	0
81	MG	A	1998	1/1	0.91	0.26	60,60,60,60	0
80	OHX	1	3620	7/7	0.91	0.10	191,194,202,277	0
81	MG	DR	503	1/1	0.91	0.18	84,84,84,84	0
81	MG	1	3647	1/1	0.91	0.16	48,48,48,48	0
81	MG	sM	302	1/1	0.91	0.10	66,66,66,66	0
81	MG	x	201	1/1	0.91	0.30	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	x	202	1/1	0.91	0.30	55,55,55,55	0
80	OHX	sR	2015	7/7	0.91	0.09	199,205,206,265	0
81	MG	1	3848	1/1	0.91	0.18	69,69,69,69	0
81	MG	AR	3817	1/1	0.91	0.25	43,43,43,43	0
80	OHX	1	4154	7/7	0.91	0.12	119,129,131,211	0
80	OHX	A	1954	7/7	0.91	0.11	134,141,151,226	0
81	MG	AR	4140	1/1	0.91	0.13	66,66,66,66	0
81	MG	AR	3826	1/1	0.91	0.16	54,54,54,54	0
80	OHX	AR	3646	7/7	0.91	0.12	129,137,143,238	0
80	OHX	AR	3595	7/7	0.91	0.11	111,118,125,220	0
80	OHX	CS	202	7/7	0.91	0.11	115,118,120,214	0
81	MG	x	206	1/1	0.92	0.27	62,62,62,62	0
80	OHX	AR	3572	7/7	0.92	0.08	133,134,146,237	0
81	MG	AR	3818	1/1	0.92	0.32	50,50,50,50	0
81	MG	sR	2051	1/1	0.92	0.19	59,59,59,59	0
81	MG	AR	4147	1/1	0.92	0.23	67,67,67,67	0
80	OHX	sR	1967	7/7	0.92	0.12	121,127,130,195	0
80	OHX	A	1932	7/7	0.92	0.10	131,138,144,207	0
81	MG	AR	3984	1/1	0.92	0.26	69,69,69,69	0
81	MG	AR	3823	1/1	0.92	0.16	44,44,44,44	0
80	OHX	AR	3640	7/7	0.92	0.10	132,145,152,221	0
81	MG	6	201	1/1	0.92	0.31	52,52,52,52	0
80	OHX	1	3509	7/7	0.92	0.13	127,129,132,220	0
81	MG	6	203	1/1	0.92	0.22	56,56,56,56	0
81	MG	1	3867	1/1	0.92	0.14	56,56,56,56	0
80	OHX	1	4157	7/7	0.92	0.10	141,147,156,217	0
81	MG	1	3963	1/1	0.92	0.29	61,61,61,61	0
80	OHX	AR	3643	7/7	0.92	0.10	125,127,132,234	0
81	MG	1	3870	1/1	0.92	0.32	69,69,69,69	0
81	MG	AR	3837	1/1	0.92	0.19	51,51,51,51	0
80	OHX	A	2134	7/7	0.92	0.10	139,143,147,223	0
80	OHX	1	3626	7/7	0.92	0.10	136,142,151,224	0
81	MG	1	3969	1/1	0.92	0.14	61,61,61,61	0
81	MG	1	4082	1/1	0.92	0.25	45,45,45,45	0
81	MG	AR	4002	1/1	0.92	0.11	59,59,59,59	0
80	OHX	A	1935	7/7	0.92	0.10	144,148,159,224	0
80	OHX	A	1953	7/7	0.92	0.09	199,202,208,257	0
81	MG	1	3973	1/1	0.92	0.16	45,45,45,45	0
80	OHX	A	2148	7/7	0.92	0.11	152,157,161,236	0
81	MG	AR	4007	1/1	0.92	0.19	58,58,58,58	0
81	MG	1	3684	1/1	0.92	0.23	50,50,50,50	0
81	MG	AR	4176	1/1	0.92	0.20	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AR	3712	1/1	0.92	0.31	50,50,50,50	0
81	MG	AR	3856	1/1	0.92	0.33	60,60,60,60	0
81	MG	AR	4013	1/1	0.92	0.15	66,66,66,66	0
81	MG	AR	3713	1/1	0.92	0.26	47,47,47,47	0
80	OHX	1	4165	7/7	0.92	0.11	124,134,141,228	0
81	MG	1	3979	1/1	0.92	0.17	68,68,68,68	0
81	MG	AR	3861	1/1	0.92	0.30	50,50,50,50	0
80	OHX	1	3581	7/7	0.92	0.08	172,178,182,250	0
80	OHX	sR	1988	7/7	0.92	0.08	142,148,158,230	0
81	MG	A	2103	1/1	0.92	0.37	78,78,78,78	0
81	MG	1	3984	1/1	0.92	0.16	53,53,53,53	0
80	OHX	A	2151	7/7	0.92	0.11	109,109,115,188	0
81	MG	AR	4024	1/1	0.92	0.28	66,66,66,66	0
80	OHX	AR	3598	7/7	0.92	0.09	115,119,120,203	0
81	MG	AR	3872	1/1	0.92	0.42	55,55,55,55	0
80	OHX	A	1979	7/7	0.92	0.11	123,126,134,199	0
80	OHX	y	201	7/7	0.92	0.10	104,109,116,191	0
80	OHX	1	3562	7/7	0.92	0.13	148,153,161,236	0
80	OHX	c8	202	7/7	0.92	0.09	137,139,147,219	0
81	MG	AR	4203	1/1	0.92	0.28	63,63,63,63	0
80	OHX	A	1914	7/7	0.92	0.14	116,119,122,179	0
81	MG	1	3892	1/1	0.92	0.25	66,66,66,66	0
80	OHX	sR	1996	7/7	0.92	0.11	137,144,148,221	0
81	MG	A	1982	1/1	0.92	0.19	65,65,65,65	0
80	OHX	AP	502	7/7	0.92	0.15	113,119,123,219	0
81	MG	F	301	1/1	0.92	0.16	71,71,71,71	0
81	MG	O	202	1/1	0.92	0.32	71,71,71,71	0
81	MG	AR	4214	1/1	0.92	0.28	80,80,80,80	0
81	MG	1	3898	1/1	0.92	0.11	45,45,45,45	0
81	MG	AR	3890	1/1	0.92	0.08	49,49,49,49	0
81	MG	AR	3741	1/1	0.92	0.24	43,43,43,43	0
81	MG	1	3793	1/1	0.92	0.35	46,46,46,46	0
80	OHX	A	1917	7/7	0.92	0.12	104,109,118,181	0
80	OHX	1	3566	7/7	0.92	0.10	139,145,151,225	0
81	MG	1	4118	1/1	0.92	0.12	69,69,69,69	0
81	MG	AR	4056	1/1	0.92	0.12	72,72,72,72	0
81	MG	1	3902	1/1	0.92	0.14	64,64,64,64	0
80	OHX	1	3588	7/7	0.92	0.11	121,128,143,232	0
81	MG	AS	211	1/1	0.92	0.34	53,53,53,53	0
81	MG	AR	3898	1/1	0.92	0.10	55,55,55,55	0
80	OHX	AR	3508	7/7	0.92	0.13	92,99,103,182	0
81	MG	AR	3751	1/1	0.92	0.27	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	A	2156	6/7	0.92	0.10	148,153,160,224	0
81	MG	1	4190	1/1	0.92	0.14	46,46,46,46	0
81	MG	3	207	1/1	0.92	0.11	58,58,58,58	0
80	OHX	AR	3611	7/7	0.92	0.12	124,132,136,234	0
81	MG	3	210	1/1	0.92	0.18	51,51,51,51	0
81	MG	3	211	1/1	0.92	0.34	52,52,52,52	0
81	MG	AR	3759	1/1	0.92	0.21	42,42,42,42	0
81	MG	1	4011	1/1	0.92	0.23	104,104,104,104	0
81	MG	AS	225	1/1	0.92	0.37	54,54,54,54	0
80	OHX	A	1923	7/7	0.92	0.11	121,123,130,200	0
80	OHX	AR	3533	7/7	0.92	0.14	99,107,112,196	0
81	MG	1	4014	1/1	0.92	0.12	53,53,53,53	0
81	MG	AR	4077	1/1	0.92	0.17	54,54,54,54	0
80	OHX	AR	3614	7/7	0.92	0.14	106,115,119,216	0
81	MG	AR	3765	1/1	0.92	0.14	61,61,61,61	0
81	MG	1	3808	1/1	0.92	0.16	43,43,43,43	0
80	OHX	1	3640	7/7	0.92	0.11	116,117,123,199	0
81	MG	1	3812	1/1	0.92	0.09	54,54,54,54	0
80	OHX	1	3538	7/7	0.92	0.10	117,118,137,217	0
81	MG	AR	3926	1/1	0.92	0.21	60,60,60,60	0
81	MG	1	4022	1/1	0.92	0.17	58,58,58,58	0
80	OHX	AR	3617	7/7	0.92	0.11	123,127,133,229	0
80	OHX	AT	209	7/7	0.92	0.11	117,129,131,219	0
80	OHX	A	2118	7/7	0.92	0.13	102,109,115,156	0
80	OHX	AR	3546	7/7	0.92	0.13	86,91,100,170	0
80	OHX	AR	3549	7/7	0.92	0.11	105,115,127,220	0
80	OHX	1	3595	7/7	0.92	0.10	107,114,127,200	0
80	OHX	A	1958	7/7	0.92	0.11	161,162,166,238	0
80	OHX	A	2131	7/7	0.92	0.10	148,152,156,217	0
81	MG	sR	2167	1/1	0.92	0.19	65,65,65,65	0
81	MG	1	3830	1/1	0.92	0.10	48,48,48,48	0
81	MG	1	3729	1/1	0.92	0.13	47,47,47,47	0
81	MG	1	3925	1/1	0.92	0.31	57,57,57,57	0
81	MG	1	3835	1/1	0.92	0.15	49,49,49,49	0
80	OHX	AR	3625	7/7	0.92	0.10	129,136,146,231	0
81	MG	1	3731	1/1	0.92	0.18	46,46,46,46	0
81	MG	sR	2175	1/1	0.92	0.32	75,75,75,75	0
81	MG	s1	302	1/1	0.92	0.12	93,93,93,93	0
80	OHX	AR	3560	7/7	0.92	0.11	132,137,143,216	0
81	MG	CQ	202	1/1	0.92	0.21	66,66,66,66	0
81	MG	1	3841	1/1	0.92	0.08	51,51,51,51	0
81	MG	AR	4110	1/1	0.92	0.10	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3629	7/7	0.92	0.10	165,169,178,249	0
81	MG	AR	4113	1/1	0.92	0.16	73,73,73,73	0
81	MG	1	3933	1/1	0.92	0.08	79,79,79,79	0
81	MG	l	404	1/1	0.92	0.14	62,62,62,62	0
80	OHX	AR	3564	7/7	0.92	0.14	98,104,115,204	0
80	OHX	3	203	7/7	0.92	0.12	120,127,138,207	0
81	MG	CU	202	1/1	0.92	0.20	52,52,52,52	0
80	OHX	AR	3632	7/7	0.92	0.10	119,120,130,221	0
81	MG	DH	203	1/1	0.92	0.10	59,59,59,59	0
81	MG	1	3938	1/1	0.92	0.27	58,58,58,58	0
81	MG	d3	202	1/1	0.92	0.30	60,60,60,60	0
80	OHX	sR	1902	7/7	0.92	0.10	106,113,115,207	0
81	MG	1	3940	1/1	0.92	0.32	66,66,66,66	0
80	OHX	sR	1920	7/7	0.92	0.15	73,81,96,138	0
81	MG	AR	3961	1/1	0.92	0.22	58,58,58,58	0
80	OHX	sR	1941	7/7	0.92	0.11	115,116,123,186	0
81	MG	1	3850	1/1	0.92	0.20	95,95,95,95	0
81	MG	1	3745	1/1	0.92	0.22	45,45,45,45	0
80	OHX	AR	3567	7/7	0.92	0.09	137,141,143,222	0
80	OHX	AR	3568	7/7	0.92	0.10	124,126,133,222	0
81	MG	AR	3805	1/1	0.92	0.33	43,43,43,43	0
81	MG	AR	3807	1/1	0.92	0.16	41,41,41,41	0
80	OHX	sR	1956	7/7	0.92	0.11	137,140,149,206	0
84	VDU	AR	4255	26/26	0.92	0.13	55,59,60,63	0
81	MG	AR	4135	1/1	0.92	0.47	66,66,66,66	0
80	OHX	AR	3570	7/7	0.92	0.09	121,124,129,219	0
80	OHX	AR	3686	7/7	0.92	0.08	203,207,211,278	0
81	MG	AR	3811	1/1	0.92	0.20	42,42,42,42	0
81	MG	1	4062	1/1	0.92	0.11	63,63,63,63	0
81	MG	1	3751	1/1	0.92	0.26	44,44,44,44	0
80	OHX	1	3621	7/7	0.92	0.11	147,162,174,255	0
81	MG	1	3953	1/1	0.92	0.10	69,69,69,69	0
81	MG	1	3648	1/1	0.93	0.20	46,46,46,46	0
80	OHX	sR	1971	7/7	0.93	0.09	126,132,138,213	0
81	MG	1	4098	1/1	0.93	0.34	61,61,61,61	0
80	OHX	1	3511	7/7	0.93	0.10	115,120,125,213	0
81	MG	sR	2056	1/1	0.93	0.15	66,66,66,66	0
81	MG	1	3875	1/1	0.93	0.25	51,51,51,51	0
81	MG	AR	3727	1/1	0.93	0.13	54,54,54,54	0
80	OHX	AR	3548	7/7	0.93	0.10	101,106,116,198	0
80	OHX	1	3513	7/7	0.93	0.11	94,96,102,179	0
80	OHX	sR	1976	7/7	0.93	0.12	102,116,122,196	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	4104	1/1	0.93	0.37	47,47,47,47	0
80	OHX	A	1908	7/7	0.93	0.14	76,88,98,141	0
80	OHX	1	3599	7/7	0.93	0.08	152,161,181,256	0
81	MG	AR	4017	1/1	0.93	0.28	73,73,73,73	0
80	OHX	sR	1979	7/7	0.93	0.12	96,98,106,188	0
81	MG	sR	2068	1/1	0.93	0.24	50,50,50,50	0
81	MG	1	4111	1/1	0.93	0.24	48,48,48,48	0
80	OHX	AR	3556	7/7	0.93	0.12	96,98,112,208	0
81	MG	1	3883	1/1	0.93	0.35	57,57,57,57	0
80	OHX	1	3600	7/7	0.93	0.09	135,137,147,228	0
80	OHX	A	2150	7/7	0.93	0.11	131,132,136,208	0
81	MG	1	3887	1/1	0.93	0.20	69,69,69,69	0
80	OHX	AR	3561	7/7	0.93	0.11	131,135,139,223	0
80	OHX	AR	3633	7/7	0.93	0.11	124,127,131,216	0
81	MG	1	3999	1/1	0.93	0.12	69,69,69,69	0
81	MG	sR	2081	1/1	0.93	0.16	49,49,49,49	0
81	MG	sR	2082	1/1	0.93	0.22	60,60,60,60	0
81	MG	AR	4184	1/1	0.93	0.11	44,44,44,44	0
80	OHX	AR	3563	7/7	0.93	0.09	128,131,137,223	0
81	MG	A	1986	1/1	0.93	0.34	72,72,72,72	0
80	OHX	A	1925	7/7	0.93	0.11	134,138,141,203	0
81	MG	AR	3750	1/1	0.93	0.23	48,48,48,48	0
80	OHX	AR	3565	7/7	0.93	0.11	103,107,118,198	0
81	MG	AR	4192	1/1	0.93	0.28	51,51,51,51	0
81	MG	AR	4036	1/1	0.93	0.25	63,63,63,63	0
80	OHX	3	202	7/7	0.93	0.11	113,117,122,193	0
81	MG	1	3773	1/1	0.93	0.17	63,63,63,63	0
81	MG	3	209	1/1	0.93	0.33	57,57,57,57	0
80	OHX	A	2152	7/7	0.93	0.08	137,140,145,227	0
80	OHX	sR	1991	7/7	0.93	0.10	154,160,166,232	0
81	MG	AR	4042	1/1	0.93	0.29	80,80,80,80	0
80	OHX	1	3463	7/7	0.93	0.12	75,85,87,154	0
81	MG	1	3671	1/1	0.93	0.20	56,56,56,56	0
81	MG	AR	4204	1/1	0.93	0.23	58,58,58,58	0
80	OHX	AR	3700[A]	7/7	0.93	0.16	129,131,135,157	7
81	MG	AR	3902	1/1	0.93	0.16	63,63,63,63	0
80	OHX	AR	3700[B]	7/7	0.93	0.16	127,130,136,157	7
80	OHX	1	3467	7/7	0.93	0.13	96,105,108,179	0
81	MG	AR	4052	1/1	0.93	0.28	95,95,95,95	0
80	OHX	1	3468	7/7	0.93	0.11	64,80,91,152	0
81	MG	AR	4055	1/1	0.93	0.12	57,57,57,57	0
81	MG	AR	3906	1/1	0.93	0.22	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	4017	1/1	0.93	0.25	66,66,66,66	0
81	MG	4	202	1/1	0.93	0.12	70,70,70,70	0
81	MG	A	2078	1/1	0.93	0.26	67,67,67,67	0
81	MG	AR	4060	1/1	0.93	0.11	53,53,53,53	0
80	OHX	A	1926	7/7	0.93	0.10	159,160,164,234	0
80	OHX	A	1927	7/7	0.93	0.11	100,106,111,186	0
81	MG	A	2082	1/1	0.93	0.09	60,60,60,60	0
81	MG	1	3680	1/1	0.93	0.26	61,61,61,61	0
81	MG	AR	4065	1/1	0.93	0.12	67,67,67,67	0
81	MG	AR	4253	1/1	0.93	0.12	105,105,105,105	0
80	OHX	AR	3574	7/7	0.93	0.11	107,111,118,206	0
80	OHX	AR	3575	7/7	0.93	0.12	105,107,115,192	0
80	OHX	A	1928	7/7	0.93	0.11	124,129,131,197	0
81	MG	4	226	1/1	0.93	0.11	56,56,56,56	0
80	OHX	1	3531	7/7	0.93	0.10	106,115,119,204	0
80	OHX	AR	3579	7/7	0.93	0.10	151,153,158,245	0
81	MG	AR	4073	1/1	0.93	0.20	50,50,50,50	0
81	MG	1	3687	1/1	0.93	0.32	63,63,63,63	0
81	MG	1	3797	1/1	0.93	0.32	48,48,48,48	0
80	OHX	AR	3649	7/7	0.93	0.09	105,107,123,211	0
80	OHX	AR	3580	7/7	0.93	0.10	117,123,126,198	0
80	OHX	1	3535	7/7	0.93	0.13	93,100,106,193	0
81	MG	sR	2135	1/1	0.93	0.28	51,51,51,51	0
80	OHX	AR	3583	7/7	0.93	0.10	93,95,102,186	0
81	MG	4	235	1/1	0.93	0.31	51,51,51,51	0
80	OHX	1	3536	7/7	0.93	0.10	130,135,141,220	0
80	OHX	AR	3590	7/7	0.93	0.10	104,111,116,200	0
81	MG	AT	202	1/1	0.93	0.14	80,80,80,80	0
80	OHX	1	3537	7/7	0.93	0.13	118,122,123,206	0
81	MG	1	3695	1/1	0.93	0.34	73,73,73,73	0
80	OHX	A	1911	7/7	0.93	0.12	88,92,101,141	0
80	OHX	1	3539	7/7	0.93	0.11	92,98,107,192	0
80	OHX	AR	3594	7/7	0.93	0.12	108,113,119,196	0
80	OHX	1	3488	7/7	0.93	0.13	87,93,99,163	0
80	OHX	AT	205	7/7	0.93	0.13	94,100,106,175	0
80	OHX	1	3542	7/7	0.93	0.09	119,120,131,204	0
81	MG	AT	224	1/1	0.93	0.12	78,78,78,78	0
80	OHX	AT	210	7/7	0.93	0.10	109,113,127,204	0
80	OHX	A	1959	7/7	0.93	0.11	125,136,139,203	0
80	OHX	1	4163	7/7	0.93	0.08	164,172,184,254	0
81	MG	1	3827	1/1	0.93	0.31	42,42,42,42	0
80	OHX	AK	104	7/7	0.93	0.13	83,85,90,153	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	1	3709	1/1	0.93	0.36	44,44,44,44	0
81	MG	A	2024	1/1	0.93	0.24	60,60,60,60	0
80	OHX	1	3499	7/7	0.93	0.10	126,136,137,202	0
81	MG	1	3837	1/1	0.93	0.62	81,81,81,81	0
81	MG	AR	3806	1/1	0.93	0.35	44,44,44,44	0
81	MG	sR	2161	1/1	0.93	0.37	71,71,71,71	0
80	OHX	CG	303	7/7	0.93	0.08	204,205,214,286	0
80	OHX	A	1933	7/7	0.93	0.10	133,136,141,220	0
81	MG	AR	3960	1/1	0.93	0.06	69,69,69,69	0
80	OHX	1	3549	7/7	0.93	0.09	148,149,162,227	0
80	OHX	AR	3500	7/7	0.93	0.11	73,84,96,151	0
81	MG	1	4064	1/1	0.93	0.14	44,44,44,44	0
80	OHX	AR	3503	7/7	0.93	0.13	119,121,126,213	0
81	MG	AR	3965	1/1	0.93	0.29	60,60,60,60	0
81	MG	AR	3966	1/1	0.93	0.16	72,72,72,72	0
80	OHX	1	3503	7/7	0.93	0.09	114,123,133,226	0
81	MG	CR	202	1/1	0.93	0.34	61,61,61,61	0
80	OHX	A	1947	7/7	0.93	0.10	141,146,151,214	0
80	OHX	DQ	203	7/7	0.93	0.14	118,125,138,230	0
80	OHX	AR	3607	7/7	0.93	0.11	99,112,121,213	0
80	OHX	AR	3514	7/7	0.93	0.11	98,100,110,192	0
80	OHX	AR	3516	7/7	0.93	0.12	81,91,95,186	0
80	OHX	sR	1915	7/7	0.93	0.10	121,122,129,200	0
81	MG	AB	202	1/1	0.93	0.12	59,59,59,59	0
80	OHX	AR	3519	7/7	0.93	0.12	103,115,124,198	0
81	MG	DH	201	1/1	0.93	0.13	58,58,58,58	0
81	MG	AR	4130	1/1	0.93	0.15	60,60,60,60	0
81	MG	1	3958	1/1	0.93	0.28	69,69,69,69	0
80	OHX	sR	2176	7/7	0.93	0.11	134,139,142,220	0
80	OHX	1	3553	7/7	0.93	0.10	128,139,145,211	0
81	MG	AK	105	1/1	0.93	0.16	88,88,88,88	0
80	OHX	AR	3526	7/7	0.93	0.10	118,124,132,206	0
81	MG	DQ	204	1/1	0.93	0.22	74,74,74,74	0
81	MG	CD	302	1/1	0.93	0.12	64,64,64,64	0
80	OHX	A	1974	7/7	0.93	0.08	171,173,180,255	0
80	OHX	A	1934	7/7	0.93	0.09	156,157,162,228	0
81	MG	1	3965	1/1	0.93	0.09	47,47,47,47	0
81	MG	CE	405	1/1	0.93	0.24	71,71,71,71	0
81	MG	d6	202	1/1	0.93	0.37	53,53,53,53	0
81	MG	AR	3839	1/1	0.93	0.46	67,67,67,67	0
81	MG	sR	2036	1/1	0.93	0.32	55,55,55,55	0
81	MG	AR	3840	1/1	0.93	0.24	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	AF	201	1/1	0.93	0.27	66,66,66,66	0
81	MG	1	3863	1/1	0.93	0.25	56,56,56,56	0
81	MG	1	3737	1/1	0.93	0.15	50,50,50,50	0
81	MG	AR	3845	1/1	0.93	0.39	58,58,58,58	0
81	MG	1	3739	1/1	0.93	0.38	57,57,57,57	0
80	OHX	A	1922	7/7	0.93	0.10	126,131,141,205	0
81	MG	AR	3848	1/1	0.93	0.34	53,53,53,53	0
80	OHX	AR	3536	7/7	0.93	0.11	114,121,129,219	0
81	MG	sR	2046	1/1	0.93	0.19	76,76,76,76	0
80	OHX	sR	1962	7/7	0.93	0.12	98,105,113,190	0
80	OHX	1	3594	7/7	0.93	0.11	131,131,138,195	0
81	MG	AR	3853	1/1	0.93	0.36	44,44,44,44	0
80	OHX	AR	3544	7/7	0.93	0.10	129,135,141,193	0
80	OHX	1	3557	7/7	0.93	0.12	89,96,101,181	0
81	MG	AR	3749	1/1	0.94	0.23	53,53,53,53	0
81	MG	1	4191	1/1	0.94	0.10	84,84,84,84	0
81	MG	1	4193	1/1	0.94	0.07	98,98,98,98	0
80	OHX	AR	3624	7/7	0.94	0.08	136,143,148,231	0
80	OHX	sR	1975	7/7	0.94	0.10	113,118,125,200	0
80	OHX	1	3476	7/7	0.94	0.11	80,90,93,157	0
80	OHX	A	1942	7/7	0.94	0.10	113,118,126,211	0
80	OHX	AR	3628	7/7	0.94	0.09	116,121,128,204	0
80	OHX	4	208	7/7	0.94	0.09	94,100,113,207	0
80	OHX	4	209	7/7	0.94	0.09	101,107,115,200	0
80	OHX	1	3552	7/7	0.94	0.08	123,126,139,217	0
81	MG	sR	2077	1/1	0.94	0.18	61,61,61,61	0
81	MG	A	2079	1/1	0.94	0.08	68,68,68,68	0
81	MG	sR	2079	1/1	0.94	0.18	53,53,53,53	0
80	OHX	1	4156	6/7	0.94	0.12	119,125,131,202	0
80	OHX	A	1973	7/7	0.94	0.13	89,93,102,132	0
80	OHX	A	1916	7/7	0.94	0.10	111,117,125,180	0
80	OHX	1	4159	7/7	0.94	0.09	159,165,170,242	0
81	MG	sR	2084	1/1	0.94	0.29	64,64,64,64	0
81	MG	AR	4049	1/1	0.94	0.11	63,63,63,63	0
80	OHX	k	402	7/7	0.94	0.10	101,105,108,190	0
80	OHX	k	403	7/7	0.94	0.11	107,108,121,189	0
80	OHX	A	1918	7/7	0.94	0.10	108,110,117,180	0
81	MG	1	4027	1/1	0.94	0.17	44,44,44,44	0
80	OHX	A	1946	7/7	0.94	0.10	160,162,165,221	0
81	MG	AR	3912	1/1	0.94	0.13	47,47,47,47	0
80	OHX	r	304	7/7	0.94	0.12	77,86,94,146	0
81	MG	AR	3914	1/1	0.94	0.09	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	3490	7/7	0.94	0.13	91,97,103,183	0
81	MG	AR	3774	1/1	0.94	0.15	44,44,44,44	0
80	OHX	1	3558	7/7	0.94	0.08	146,151,156,222	0
81	MG	1	3803	1/1	0.94	0.24	48,48,48,48	0
80	OHX	1	3525	7/7	0.94	0.09	124,133,135,201	0
80	OHX	A	1930	7/7	0.94	0.11	114,118,127,199	0
81	MG	AR	3779	1/1	0.94	0.43	59,59,59,59	0
80	OHX	AR	3576	7/7	0.94	0.08	132,137,144,224	0
81	MG	1	3809	1/1	0.94	0.31	44,44,44,44	0
80	OHX	A	1924	7/7	0.94	0.12	103,107,114,189	0
81	MG	1	4038	1/1	0.94	0.11	67,67,67,67	0
81	MG	AR	4252	1/1	0.94	0.08	89,89,89,89	0
81	MG	1	3924	1/1	0.94	0.05	87,87,87,87	0
80	OHX	1	4167	7/7	0.94	0.10	153,159,161,214	0
81	MG	1	4042	1/1	0.94	0.12	47,47,47,47	0
81	MG	AS	212	1/1	0.94	0.25	45,45,45,45	0
81	MG	AS	213	1/1	0.94	0.20	61,61,61,61	0
80	OHX	sR	1999	7/7	0.94	0.12	120,126,135,203	0
81	MG	1	4044	1/1	0.94	0.10	68,68,68,68	0
81	MG	1	3814	1/1	0.94	0.23	45,45,45,45	0
80	OHX	AR	3441	7/7	0.94	0.12	68,77,86,133	0
80	OHX	AR	3443	7/7	0.94	0.17	55,76,91,116	0
80	OHX	AR	3475	7/7	0.94	0.11	60,80,83,142	0
80	OHX	AR	3488	7/7	0.94	0.11	75,82,90,153	0
80	OHX	AS	204	7/7	0.94	0.12	72,86,101,161	0
80	OHX	AS	205	7/7	0.94	0.12	95,99,109,186	0
80	OHX	AR	3585	7/7	0.94	0.10	114,121,130,209	0
81	MG	1	3707	1/1	0.94	0.21	53,53,53,53	0
81	MG	1	3708	1/1	0.94	0.16	44,44,44,44	0
80	OHX	AR	3586	7/7	0.94	0.11	87,93,99,180	0
80	OHX	AR	3587	7/7	0.94	0.09	135,138,144,213	0
81	MG	AR	4089	1/1	0.94	0.33	76,76,76,76	0
80	OHX	AR	3588	7/7	0.94	0.08	109,112,127,212	0
81	MG	AR	3949	1/1	0.94	0.29	53,53,53,53	0
80	OHX	AR	3493	7/7	0.94	0.12	76,79,93,152	0
80	OHX	1	3434	7/7	0.94	0.17	66,77,86,118	0
80	OHX	AT	206	7/7	0.94	0.11	87,88,95,175	0
80	OHX	AT	208	7/7	0.94	0.10	98,100,111,190	0
80	OHX	1	3451	7/7	0.94	0.12	86,95,98,155	0
81	MG	1	4063	1/1	0.94	0.12	64,64,64,64	0
80	OHX	AR	3496	7/7	0.94	0.11	81,92,97,184	0
81	MG	A	2166	1/1	0.94	0.10	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	3565	7/7	0.94	0.09	113,116,130,199	0
80	OHX	AR	3502	7/7	0.94	0.14	80,92,96,156	0
80	OHX	AT	214	7/7	0.94	0.08	144,151,159,238	0
80	OHX	1	3534	7/7	0.94	0.09	147,148,154,228	0
80	OHX	1	3504	7/7	0.94	0.11	89,94,100,195	0
80	OHX	1	3505	7/7	0.94	0.09	118,122,129,209	0
80	OHX	AR	3509	7/7	0.94	0.10	118,125,128,183	0
81	MG	A	2033	1/1	0.94	0.20	72,72,72,72	0
81	MG	1	3853	1/1	0.94	0.09	57,57,57,57	0
81	MG	CL	303	1/1	0.94	0.25	47,47,47,47	0
80	OHX	AR	3511	7/7	0.94	0.12	74,88,100,192	0
80	OHX	A	1919	7/7	0.94	0.10	131,137,141,211	0
81	MG	8	203	1/1	0.94	0.08	112,112,112,112	0
81	MG	AR	3824	1/1	0.94	0.23	51,51,51,51	0
81	MG	AR	3825	1/1	0.94	0.37	42,42,42,42	0
81	MG	9	201	1/1	0.94	0.13	59,59,59,59	0
81	MG	AR	4123	1/1	0.94	0.12	48,48,48,48	0
80	OHX	1	3464	7/7	0.94	0.15	67,84,88,142	0
81	MG	A	2037	1/1	0.94	0.15	55,55,55,55	0
80	OHX	A	1951	7/7	0.94	0.08	138,140,151,221	0
80	OHX	A	1920	7/7	0.94	0.11	115,115,120,179	0
81	MG	AR	3832	1/1	0.94	0.30	42,42,42,42	0
80	OHX	1	3541	7/7	0.94	0.10	97,99,102,179	0
80	OHX	AR	3528	7/7	0.94	0.09	87,98,103,171	0
81	MG	sR	2165	1/1	0.94	0.12	81,81,81,81	0
81	MG	AF	202	1/1	0.94	0.09	59,59,59,59	0
80	OHX	1	3510	7/7	0.94	0.12	126,128,136,212	0
80	OHX	sR	1901	7/7	0.94	0.12	122,126,134,226	0
81	MG	AR	3838	1/1	0.94	0.30	51,51,51,51	0
80	OHX	AR	3530	7/7	0.94	0.10	72,81,95,174	0
81	MG	AR	3986	1/1	0.94	0.13	95,95,95,95	0
81	MG	1	3744	1/1	0.94	0.13	45,45,45,45	0
81	MG	1	3974	1/1	0.94	0.07	56,56,56,56	0
80	OHX	1	3543	7/7	0.94	0.08	154,157,164,235	0
80	OHX	1	3469	7/7	0.94	0.13	73,76,85,144	0
80	OHX	sR	1929	7/7	0.94	0.12	102,103,107,160	0
80	OHX	sR	1933	7/7	0.94	0.12	86,95,100,143	0
81	MG	AR	3993	1/1	0.94	0.09	78,78,78,78	0
80	OHX	1	3546	7/7	0.94	0.08	126,135,144,215	0
81	MG	1	4095	1/1	0.94	0.20	46,46,46,46	0
80	OHX	sR	1944	7/7	0.94	0.10	96,101,105,164	0
80	OHX	sR	1950	7/7	0.94	0.08	114,121,126,204	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	MG	c4	2202	1/1	0.94	0.14	51,51,51,51	0
80	OHX	1	3473	7/7	0.94	0.11	90,91,95,156	0
80	OHX	AR	3539	7/7	0.94	0.08	95,100,111,177	0
80	OHX	sR	1954	7/7	0.94	0.10	86,97,100,171	0
80	OHX	sR	1955	7/7	0.94	0.09	155,157,160,228	0
81	MG	1	3757	1/1	0.94	0.23	46,46,46,46	0
81	MG	AR	3725	1/1	0.94	0.27	54,54,54,54	0
80	OHX	AR	3540	7/7	0.94	0.10	102,108,118,186	0
80	OHX	AR	3541	7/7	0.94	0.09	110,115,121,194	0
81	MG	A	2058	1/1	0.94	0.13	61,61,61,61	0
80	OHX	AR	3542	7/7	0.94	0.12	89,96,98,190	0
80	OHX	1	3612	7/7	0.94	0.12	75,85,91,168	0
80	OHX	1	3514	7/7	0.94	0.10	122,126,131,208	0
81	MG	AR	4011	1/1	0.94	0.15	46,46,46,46	0
80	OHX	sR	1964	7/7	0.94	0.10	130,137,141,228	0
81	MG	1	3663	1/1	0.94	0.17	54,54,54,54	0
81	MG	1	3768	1/1	0.94	0.49	46,46,46,46	0
80	OHX	1	3515	7/7	0.94	0.11	130,137,146,221	0
81	MG	AR	3873	1/1	0.94	0.38	47,47,47,47	0
81	MG	1	4000	1/1	0.94	0.11	66,66,66,66	0
80	OHX	1	4149	7/7	0.94	0.09	92,96,105,179	0
80	OHX	sR	1969	7/7	0.94	0.11	96,104,109,190	0
84	VDU	1	4195	26/26	0.94	0.11	55,57,59,64	0
80	OHX	sR	1970	7/7	0.94	0.12	114,115,130,191	0
81	MG	AR	4173	1/1	0.94	0.10	71,71,71,71	0
80	OHX	c5	201	7/7	0.94	0.08	172,174,183,246	0
80	OHX	3	219	7/7	0.94	0.12	109,114,123,194	0
81	MG	1	4184	1/1	0.94	0.16	55,55,55,55	0
81	MG	1	4185	1/1	0.94	0.17	71,71,71,71	0
80	OHX	AR	3550	7/7	0.94	0.10	109,113,120,207	0
80	OHX	AR	3551	7/7	0.94	0.11	103,112,115,193	0
81	MG	AR	3887	1/1	0.94	0.09	80,80,80,80	0
80	OHX	A	2124	7/7	0.95	0.10	96,99,108,179	0
81	MG	1	4005	1/1	0.95	0.08	66,66,66,66	0
80	OHX	sR	1922	7/7	0.95	0.13	95,98,104,137	0
81	MG	AR	4032	1/1	0.95	0.26	71,71,71,71	0
81	MG	AR	4185	1/1	0.95	0.41	66,66,66,66	0
81	MG	AR	4033	1/1	0.95	0.13	63,63,63,63	0
80	OHX	sR	1925	7/7	0.95	0.11	91,94,104,144	0
81	MG	sR	2073	1/1	0.95	0.20	45,45,45,45	0
80	OHX	AR	3517	7/7	0.95	0.09	88,98,100,182	0
80	OHX	A	2125	7/7	0.95	0.14	82,91,95,145	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	sR	1940	7/7	0.95	0.10	95,101,110,172	0
80	OHX	AR	3521	7/7	0.95	0.11	80,90,96,173	0
80	OHX	sR	1942	7/7	0.95	0.13	66,79,85,153	0
81	MG	AR	3900	1/1	0.95	0.06	59,59,59,59	0
80	OHX	sR	1943	7/7	0.95	0.10	106,110,110,170	0
80	OHX	AR	3522	7/7	0.95	0.09	94,98,106,189	0
80	OHX	sR	1947	7/7	0.95	0.09	102,106,110,198	0
80	OHX	1	3475	7/7	0.95	0.09	95,100,109,169	0
80	OHX	AR	3524	7/7	0.95	0.10	83,87,101,164	0
80	OHX	sR	2183	7/7	0.95	0.22	97,99,100,132	7
80	OHX	AR	3525	7/7	0.95	0.09	91,94,99,188	0
80	OHX	sR	1953	7/7	0.95	0.08	132,134,138,203	0
81	MG	4	220	1/1	0.95	0.11	43,43,43,43	0
80	OHX	A	1931	7/7	0.95	0.10	97,101,109,166	0
80	OHX	A	1945	7/7	0.95	0.10	119,123,125,192	0
80	OHX	A	1915	7/7	0.95	0.10	96,103,110,172	0
80	OHX	sR	1958	7/7	0.95	0.10	98,102,109,169	0
81	MG	AR	3916	1/1	0.95	0.19	50,50,50,50	0
80	OHX	AR	3610	7/7	0.95	0.11	92,99,103,190	0
80	OHX	sR	1960	7/7	0.95	0.09	112,113,121,178	0
81	MG	1	3786	1/1	0.95	0.40	45,45,45,45	0
80	OHX	1	3520[A]	7/7	0.95	0.14	92,97,103,130	7
80	OHX	AR	3532	7/7	0.95	0.10	72,81,88,180	0
80	OHX	1	3520[B]	7/7	0.95	0.14	88,92,97,109	7
80	OHX	1	3561	7/7	0.95	0.12	122,129,134,221	0
80	OHX	sR	1965	7/7	0.95	0.10	114,117,125,195	0
80	OHX	1	4109	7/7	0.95	0.12	93,95,99,171	0
80	OHX	3	220	7/7	0.95	0.12	93,98,111,160	0
81	MG	AR	3927	1/1	0.95	0.18	77,77,77,77	0
81	MG	AR	4251	1/1	0.95	0.04	98,98,98,98	0
80	OHX	sR	1968	7/7	0.95	0.09	103,111,114,193	0
80	OHX	1	3480	7/7	0.95	0.10	89,94,97,173	0
80	OHX	1	4137	7/7	0.95	0.10	105,108,111,169	0
80	OHX	1	3522	7/7	0.95	0.09	105,107,120,195	0
80	OHX	1	4140	7/7	0.95	0.13	84,88,92,156	0
80	OHX	1	3417	7/7	0.95	0.18	78,88,96,110	0
81	MG	l	405	1/1	0.95	0.09	53,53,53,53	0
81	MG	sR	2115	1/1	0.95	0.08	70,70,70,70	0
80	OHX	4	211	7/7	0.95	0.07	140,145,157,230	0
80	OHX	4	212	7/7	0.95	0.08	132,138,144,226	0
81	MG	1	3804	1/1	0.95	0.34	49,49,49,49	0
80	OHX	AR	3547	7/7	0.95	0.10	95,97,107,195	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	4142	7/7	0.95	0.16	69,74,87,114	0
80	OHX	1	3484	7/7	0.95	0.11	92,98,108,166	0
81	MG	A	1993	1/1	0.95	0.08	58,58,58,58	0
80	OHX	AR	3627	7/7	0.95	0.08	155,160,167,237	0
81	MG	sR	2124	1/1	0.95	0.06	61,61,61,61	0
80	OHX	1	4144	7/7	0.95	0.08	86,94,100,181	0
80	OHX	1	3486	7/7	0.95	0.11	94,102,107,189	0
80	OHX	AR	3552	7/7	0.95	0.11	93,99,106,195	0
81	MG	AR	3948	1/1	0.95	0.37	72,72,72,72	0
81	MG	1	3932	1/1	0.95	0.15	57,57,57,57	0
80	OHX	A	2133	7/7	0.95	0.10	124,127,132,198	0
80	OHX	sR	1984	7/7	0.95	0.09	106,112,116,181	0
81	MG	1	3817	1/1	0.95	0.25	63,63,63,63	0
81	MG	AR	3953	1/1	0.95	0.14	53,53,53,53	0
80	OHX	1	3440	7/7	0.95	0.11	73,76,82,133	0
80	OHX	1	4153	7/7	0.95	0.11	90,92,106,169	0
80	OHX	1	3441	7/7	0.95	0.11	93,95,107,146	0
81	MG	1	3705	1/1	0.95	0.21	64,64,64,64	0
81	MG	AR	4102	1/1	0.95	0.23	45,45,45,45	0
81	MG	AR	4103	1/1	0.95	0.14	80,80,80,80	0
81	MG	1	3823	1/1	0.95	0.08	64,64,64,64	0
80	OHX	AR	3558	7/7	0.95	0.10	93,97,102,163	0
81	MG	1	3825	1/1	0.95	0.33	43,43,43,43	0
81	MG	A	2004	1/1	0.95	0.24	55,55,55,55	0
80	OHX	AR	3559	7/7	0.95	0.10	85,87,96,178	0
80	OHX	1	3530	7/7	0.95	0.09	99,100,102,183	0
81	MG	1	3831	1/1	0.95	0.11	44,44,44,44	0
81	MG	sR	2147	1/1	0.95	0.22	57,57,57,57	0
81	MG	1	3832	1/1	0.95	0.19	45,45,45,45	0
81	MG	CI	302	1/1	0.95	0.10	57,57,57,57	0
81	MG	8	201	1/1	0.95	0.19	80,80,80,80	0
81	MG	1	3710	1/1	0.95	0.13	46,46,46,46	0
80	OHX	v	301	7/7	0.95	0.09	102,109,116,203	0
80	OHX	1	3443	7/7	0.95	0.12	91,101,105,163	0
80	OHX	1	3532	7/7	0.95	0.10	94,96,102,165	0
81	MG	1	3714	1/1	0.95	0.08	68,68,68,68	0
80	OHX	z	201	7/7	0.95	0.14	114,119,122,203	0
80	OHX	1	3492	7/7	0.95	0.11	107,110,119,193	0
81	MG	1	3957	1/1	0.95	0.17	63,63,63,63	0
81	MG	1	3717	1/1	0.95	0.09	47,47,47,47	0
80	OHX	1	3493	7/7	0.95	0.10	110,112,119,190	0
80	OHX	1	3494	7/7	0.95	0.10	93,99,109,160	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3569	7/7	0.95	0.10	109,117,123,201	0
81	MG	1	3846	1/1	0.95	0.08	45,45,45,45	0
80	OHX	1	3495	7/7	0.95	0.09	83,98,103,176	0
80	OHX	1	3450	7/7	0.95	0.14	66,88,94,133	0
80	OHX	1	3500	7/7	0.95	0.09	139,144,149,216	0
81	MG	A	2165	1/1	0.95	0.07	65,65,65,65	0
80	OHX	sR	2002	7/7	0.95	0.10	103,108,117,199	0
80	OHX	AR	3450	7/7	0.95	0.11	77,93,99,148	0
80	OHX	AR	3468	7/7	0.95	0.14	68,73,83,139	0
81	MG	1	3854	1/1	0.95	0.11	62,62,62,62	0
81	MG	A	2021	1/1	0.95	0.09	69,69,69,69	0
81	MG	AR	4138	1/1	0.95	0.16	61,61,61,61	0
80	OHX	AR	3473	7/7	0.95	0.13	81,88,93,161	0
80	OHX	AT	207	7/7	0.95	0.09	118,119,131,202	0
81	MG	AR	3719	1/1	0.95	0.08	60,60,60,60	0
81	MG	AR	3851	1/1	0.95	0.19	42,42,42,42	0
80	OHX	A	1913	7/7	0.95	0.09	103,110,115,173	0
81	MG	AR	3721	1/1	0.95	0.08	49,49,49,49	0
81	MG	1	3976	1/1	0.95	0.19	65,65,65,65	0
80	OHX	AR	3476	7/7	0.95	0.12	70,91,97,143	0
80	OHX	AR	3484	7/7	0.95	0.09	83,92,102,186	0
80	OHX	1	3455	7/7	0.95	0.12	86,91,109,154	0
81	MG	1	3980	1/1	0.95	0.10	69,69,69,69	0
81	MG	DC	201	1/1	0.95	0.17	56,56,56,56	0
80	OHX	AR	3489	7/7	0.95	0.10	88,97,103,167	0
80	OHX	1	3456	7/7	0.95	0.13	85,86,89,138	0
80	OHX	1	3458	7/7	0.95	0.10	81,84,95,140	0
81	MG	AR	3865	1/1	0.95	0.25	50,50,50,50	0
81	MG	AR	4155	1/1	0.95	0.12	61,61,61,61	0
81	MG	AR	3732	1/1	0.95	0.12	76,76,76,76	0
81	MG	1	3985	1/1	0.95	0.09	45,45,45,45	0
80	OHX	1	3462	7/7	0.95	0.10	80,82,90,134	0
81	MG	AR	4008	1/1	0.95	0.15	67,67,67,67	0
81	MG	AR	3869	1/1	0.95	0.29	48,48,48,48	0
81	MG	1	3741	1/1	0.95	0.38	51,51,51,51	0
81	MG	AR	3871	1/1	0.95	0.34	48,48,48,48	0
81	MG	AR	4163	1/1	0.95	0.15	46,46,46,46	0
80	OHX	A	1956	7/7	0.95	0.10	123,128,132,184	0
80	OHX	AR	3497	7/7	0.95	0.12	77,80,85,159	0
80	OHX	1	3625	7/7	0.95	0.08	122,126,129,221	0
80	OHX	CL	301	7/7	0.95	0.09	108,115,121,184	0
80	OHX	A	1901	7/7	0.95	0.17	90,97,99,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	3465	7/7	0.95	0.10	75,81,90,148	0
80	OHX	CP	302	7/7	0.95	0.10	127,134,139,217	0
80	OHX	1	3466	6/7	0.95	0.13	78,82,85,121	0
85	ZN	DI	202	1/1	0.95	0.32	20,20,20,20	0
80	OHX	DH	202	7/7	0.95	0.10	100,105,110,187	0
80	OHX	AR	3505	7/7	0.95	0.09	72,86,93,171	0
80	OHX	AR	3506	7/7	0.95	0.12	71,81,86,147	0
80	OHX	A	1929	7/7	0.95	0.10	109,112,117,180	0
80	OHX	1	3512	7/7	0.95	0.10	118,123,126,208	0
80	OHX	A	1921	7/7	0.95	0.10	109,111,113,178	0
80	OHX	1	3593	7/7	0.95	0.09	128,135,142,216	0
80	OHX	AR	3515	7/7	0.95	0.08	138,141,145,195	0
80	OHX	AR	3498	7/7	0.96	0.08	111,115,118,171	0
80	OHX	1	3579	7/7	0.96	0.10	93,94,100,176	0
81	MG	A	2167	1/1	0.96	0.06	87,87,87,87	0
81	MG	A	2168	1/1	0.96	0.09	100,100,100,100	0
81	MG	A	2169	1/1	0.96	0.06	89,89,89,89	0
81	MG	1	4068	1/1	0.96	0.34	62,62,62,62	0
80	OHX	AT	212	7/7	0.96	0.07	138,143,148,226	0
80	OHX	AR	3501	7/7	0.96	0.10	84,86,100,161	0
80	OHX	1	3545	7/7	0.96	0.08	102,107,114,193	0
80	OHX	A	2126	7/7	0.96	0.08	120,122,131,196	0
81	MG	AR	3937	1/1	0.96	0.08	43,43,43,43	0
80	OHX	1	4145	7/7	0.96	0.11	75,78,88,162	0
80	OHX	1	4147	7/7	0.96	0.10	111,116,119,185	0
80	OHX	1	4148	7/7	0.96	0.10	99,100,112,188	0
80	OHX	4	205	7/7	0.96	0.10	80,82,91,158	0
80	OHX	4	206	7/7	0.96	0.08	92,94,104,178	0
80	OHX	4	207	7/7	0.96	0.09	119,122,133,204	0
80	OHX	A	1907	7/7	0.96	0.10	99,109,113,160	0
80	OHX	A	2130	7/7	0.96	0.08	111,117,122,205	0
81	MG	AR	4078	1/1	0.96	0.28	59,59,59,59	0
80	OHX	1	4151	7/7	0.96	0.09	108,115,118,195	0
81	MG	1	3738	1/1	0.96	0.26	44,44,44,44	0
80	OHX	1	3445	7/7	0.96	0.10	73,80,85,132	0
81	MG	AR	4241	1/1	0.96	0.09	68,68,68,68	0
81	MG	AR	4243	1/1	0.96	0.07	77,77,77,77	0
81	MG	AR	3819	1/1	0.96	0.26	44,44,44,44	0
80	OHX	AR	3518	7/7	0.96	0.10	78,87,97,165	0
80	OHX	DL	102	7/7	0.96	0.09	85,88,90,165	0
81	MG	AR	3822	1/1	0.96	0.37	52,52,52,52	0
80	OHX	A	1903	7/7	0.96	0.12	77,79,90,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	A	1909	7/7	0.96	0.12	83,89,93,133	0
80	OHX	1	4155	7/7	0.96	0.07	118,125,131,199	0
81	MG	AR	3704	1/1	0.96	0.05	46,46,46,46	0
81	MG	AR	4090	1/1	0.96	0.04	110,110,110,110	0
80	OHX	A	1941	7/7	0.96	0.10	138,139,148,217	0
81	MG	AR	3828	1/1	0.96	0.14	50,50,50,50	0
80	OHX	4	236	7/7	0.96	0.10	80,80,95,158	0
81	MG	AR	4094	1/1	0.96	0.18	51,51,51,51	0
81	MG	sR	2114	1/1	0.96	0.12	78,78,78,78	0
80	OHX	sR	1904	7/7	0.96	0.16	80,85,91,100	0
80	OHX	sR	1911	7/7	0.96	0.12	77,86,93,121	0
80	OHX	1	3489	7/7	0.96	0.10	74,80,93,157	0
80	OHX	T	201	7/7	0.96	0.10	100,106,111,137	0
80	OHX	sR	1921	7/7	0.96	0.09	73,76,86,148	0
80	OHX	AR	3527	7/7	0.96	0.08	99,102,108,174	0
81	MG	AR	4101	1/1	0.96	0.07	92,92,92,92	0
80	OHX	sR	1923	7/7	0.96	0.10	85,89,100,159	0
80	OHX	sR	1924	7/7	0.96	0.13	73,77,83,119	0
80	OHX	A	1948	7/7	0.96	0.10	97,98,109,157	0
80	OHX	sR	1926	7/7	0.96	0.11	79,82,88,137	0
80	OHX	sR	1927	7/7	0.96	0.09	83,91,93,151	0
81	MG	AR	3841	1/1	0.96	0.30	51,51,51,51	0
80	OHX	1	3459	7/7	0.96	0.12	79,81,91,136	0
81	MG	1	3760	1/1	0.96	0.30	47,47,47,47	0
80	OHX	sR	1932	7/7	0.96	0.12	79,84,92,153	0
81	MG	AR	4112	1/1	0.96	0.09	62,62,62,62	0
80	OHX	1	3460	7/7	0.96	0.09	83,86,89,163	0
81	MG	1	3763	1/1	0.96	0.28	49,49,49,49	0
80	OHX	sR	1934	7/7	0.96	0.12	67,73,80,138	0
80	OHX	sR	1935	7/7	0.96	0.08	96,97,99,158	0
80	OHX	sR	1936	7/7	0.96	0.10	87,89,98,157	0
80	OHX	sR	1937	7/7	0.96	0.11	79,83,89,138	0
80	OHX	sR	1939	7/7	0.96	0.09	92,95,101,155	0
80	OHX	AR	3531	7/7	0.96	0.10	67,79,87,173	0
81	MG	AR	4121	1/1	0.96	0.17	63,63,63,63	0
81	MG	1	3886	1/1	0.96	0.06	48,48,48,48	0
80	OHX	CE	401	7/7	0.96	0.09	74,82,93,157	0
80	OHX	1	3526	7/7	0.96	0.07	114,116,127,199	0
81	MG	1	3772	1/1	0.96	0.12	43,43,43,43	0
80	OHX	AR	3534	7/7	0.96	0.08	124,125,132,193	0
80	OHX	A	2121	7/7	0.96	0.10	82,85,88,133	0
81	MG	AR	3859	1/1	0.96	0.17	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	sR	1945	7/7	0.96	0.09	107,113,115,167	0
80	OHX	sR	1946	7/7	0.96	0.09	93,95,97,175	0
80	OHX	1	3496	7/7	0.96	0.08	98,104,113,181	0
81	MG	1	3778	1/1	0.96	0.18	71,71,71,71	0
80	OHX	sR	1949	7/7	0.96	0.09	81,85,95,155	0
80	OHX	1	3497	7/7	0.96	0.09	96,100,110,178	0
80	OHX	A	1906	7/7	0.96	0.10	90,94,103,138	0
80	OHX	1	3420	7/7	0.96	0.13	77,80,89,109	0
80	OHX	1	3421	7/7	0.96	0.15	70,76,80,107	0
80	OHX	1	3533	7/7	0.96	0.10	90,90,95,168	0
80	OHX	AR	3543	7/7	0.96	0.10	101,104,112,198	0
80	OHX	AR	3428	7/7	0.96	0.15	62,81,87,98	0
80	OHX	AR	3433	7/7	0.96	0.13	72,83,86,106	0
81	MG	AR	3874	1/1	0.96	0.43	43,43,43,43	0
80	OHX	1	3423	7/7	0.96	0.13	75,79,96,106	0
81	MG	1	3682	1/1	0.96	0.07	51,51,51,51	0
80	OHX	AR	3442	7/7	0.96	0.12	66,73,76,122	0
80	OHX	1	3430	7/7	0.96	0.11	69,74,91,109	0
80	OHX	AR	3444	7/7	0.96	0.12	66,76,83,114	0
81	MG	AR	3880	1/1	0.96	0.29	43,43,43,43	0
80	OHX	AR	3448	7/7	0.96	0.12	72,77,87,123	0
80	OHX	1	3432	7/7	0.96	0.13	77,78,88,116	0
80	OHX	AR	3452	7/7	0.96	0.10	92,96,103,131	0
80	OHX	AR	4213	7/7	0.96	0.11	75,85,90,150	0
80	OHX	AR	3553	7/7	0.96	0.08	109,112,118,185	0
80	OHX	AR	3460	7/7	0.96	0.12	66,76,90,106	0
80	OHX	AR	3461	7/7	0.96	0.12	55,70,81,119	0
81	MG	sR	2191	1/1	0.96	0.11	57,57,57,57	0
81	MG	sR	2194	1/1	0.96	0.06	96,96,96,96	0
81	MG	4	222	1/1	0.96	0.09	42,42,42,42	0
80	OHX	AR	3467	7/7	0.96	0.10	82,84,89,143	0
81	MG	s4	302	1/1	0.96	0.18	60,60,60,60	0
80	OHX	1	3470	7/7	0.96	0.10	85,86,91,148	0
80	OHX	AR	4229	7/7	0.96	0.10	85,95,100,184	0
80	OHX	AR	3472	7/7	0.96	0.12	77,79,84,154	0
80	OHX	1	3471	7/7	0.96	0.11	79,82,93,145	0
80	OHX	1	3472	7/7	0.96	0.10	98,102,108,165	0
81	MG	1	3810	1/1	0.96	0.31	49,49,49,49	0
80	OHX	A	1912	7/7	0.96	0.09	106,107,110,162	0
81	MG	AR	3772	1/1	0.96	0.09	69,69,69,69	0
80	OHX	AR	3562	7/7	0.96	0.07	87,91,104,181	0
81	MG	1	4040	1/1	0.96	0.17	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3477	7/7	0.96	0.11	78,84,90,148	0
80	OHX	AR	3478	7/7	0.96	0.11	82,83,86,159	0
80	OHX	AR	3479	7/7	0.96	0.11	74,83,89,126	0
80	OHX	AR	3480	7/7	0.96	0.11	75,77,93,141	0
81	MG	j	302	1/1	0.96	0.07	45,45,45,45	0
80	OHX	AS	203	7/7	0.96	0.11	72,79,84,130	0
80	OHX	AR	3481	7/7	0.96	0.09	70,78,88,155	0
81	MG	1	3819	1/1	0.96	0.37	48,48,48,48	0
80	OHX	AR	3482	7/7	0.96	0.10	71,76,89,146	0
81	MG	AR	3910	1/1	0.96	0.15	51,51,51,51	0
81	MG	AR	3911	1/1	0.96	0.24	54,54,54,54	0
80	OHX	AS	206	7/7	0.96	0.10	80,83,85,159	0
80	OHX	AS	207	7/7	0.96	0.09	90,94,101,169	0
81	MG	1	3936	1/1	0.96	0.45	56,56,56,56	0
81	MG	AR	4182	1/1	0.96	0.34	43,43,43,43	0
80	OHX	1	3474	7/7	0.96	0.10	78,80,93,150	0
80	OHX	AR	3485	7/7	0.96	0.10	76,78,90,145	0
81	MG	AR	4047	1/1	0.96	0.07	56,56,56,56	0
80	OHX	1	4133	7/7	0.96	0.13	74,78,85,119	0
80	OHX	1	4136	7/7	0.96	0.13	65,78,81,126	0
80	OHX	AR	3491	7/7	0.96	0.10	78,84,90,170	0
80	OHX	1	3435	7/7	0.96	0.11	79,83,93,134	0
80	OHX	1	4138	7/7	0.96	0.10	100,107,112,164	0
81	MG	AR	4053	1/1	0.96	0.17	72,72,72,72	0
81	MG	AR	4193	1/1	0.96	0.22	42,42,42,42	0
80	OHX	1	3576	7/7	0.96	0.07	162,162,167,222	0
81	MG	1	3945	1/1	0.96	0.11	60,60,60,60	0
80	OHX	1	3436	7/7	0.96	0.10	62,71,79,116	0
80	OHX	1	3439	7/7	0.96	0.12	67,74,82,136	0
80	OHX	AR	3513[B]	7/7	0.97	0.14	86,87,88,120	7
80	OHX	sR	1912	7/7	0.97	0.14	76,82,86,96	0
80	OHX	sR	1914	7/7	0.97	0.09	80,82,85,121	0
80	OHX	1	3498	7/7	0.97	0.07	89,94,103,168	0
80	OHX	sR	1916[A]	7/7	0.97	0.15	72,72,77,85	7
80	OHX	sR	1916[B]	7/7	0.97	0.15	74,75,78,88	7
80	OHX	sR	1917	7/7	0.97	0.09	71,76,82,115	0
80	OHX	sR	1918	7/7	0.97	0.12	76,83,88,120	0
80	OHX	AR	3411	7/7	0.97	0.17	78,83,90,98	0
80	OHX	AR	3416	7/7	0.97	0.15	68,82,87,91	0
80	OHX	1	3425	7/7	0.97	0.11	78,83,94,117	0
81	MG	r	302	1/1	0.97	0.05	50,50,50,50	0
80	OHX	AR	3430	7/7	0.97	0.11	69,77,88,104	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	3426	7/7	0.97	0.11	72,77,86,128	0
80	OHX	AR	3520	7/7	0.97	0.07	98,102,107,171	0
80	OHX	AR	3434	7/7	0.97	0.11	75,87,96,119	0
80	OHX	AR	3436	7/7	0.97	0.10	69,75,86,110	0
80	OHX	sR	1928	7/7	0.97	0.07	73,77,87,148	0
80	OHX	AR	3437	7/7	0.97	0.11	70,78,84,114	0
80	OHX	sR	1930	7/7	0.97	0.08	119,121,128,170	0
80	OHX	sR	1931	7/7	0.97	0.10	76,84,89,128	0
80	OHX	AR	3438	7/7	0.97	0.12	71,79,86,97	0
80	OHX	AR	3439	7/7	0.97	0.12	73,78,84,107	0
81	MG	AR	4025	1/1	0.97	0.12	44,44,44,44	0
80	OHX	AR	3440	7/7	0.97	0.09	78,86,91,125	0
80	OHX	1	3428	7/7	0.97	0.12	81,84,96,111	0
80	OHX	1	3502	7/7	0.97	0.11	78,87,96,159	0
80	OHX	1	3429	7/7	0.97	0.13	78,86,91,97	0
80	OHX	sR	1938	7/7	0.97	0.08	82,86,93,149	0
80	OHX	A	2119	7/7	0.97	0.11	79,81,90,133	0
81	MG	1	3970	1/1	0.97	0.04	60,60,60,60	0
80	OHX	AR	3445	7/7	0.97	0.10	64,69,86,114	0
80	OHX	AR	3446	7/7	0.97	0.11	61,62,75,116	0
80	OHX	AR	3447	7/7	0.97	0.11	69,78,84,106	0
80	OHX	3	201	7/7	0.97	0.10	80,89,96,138	0
80	OHX	A	2120	7/7	0.97	0.12	87,91,96,131	0
80	OHX	AR	3451	7/7	0.97	0.11	68,72,78,120	0
80	OHX	AR	3537	7/7	0.97	0.10	78,80,84,135	0
80	OHX	A	1905	7/7	0.97	0.09	88,92,99,148	0
80	OHX	sR	1948	7/7	0.97	0.08	83,89,94,164	0
80	OHX	AR	3453	7/7	0.97	0.09	80,84,90,142	0
80	OHX	AR	3454	7/7	0.97	0.13	72,77,84,107	0
80	OHX	AR	3456	7/7	0.97	0.12	70,76,79,123	0
81	MG	AR	4045	1/1	0.97	0.04	60,60,60,60	0
81	MG	CY	201	1/1	0.97	0.07	102,102,102,102	0
80	OHX	AR	3457	7/7	0.97	0.11	74,86,98,131	0
80	OHX	AR	3459	7/7	0.97	0.11	70,78,86,137	0
80	OHX	A	2122	7/7	0.97	0.11	82,84,90,141	0
80	OHX	AC	102	7/7	0.97	0.15	61,73,86,89	0
80	OHX	s1	301	7/7	0.97	0.11	78,83,95,108	0
81	MG	AR	3933	1/1	0.97	0.13	103,103,103,103	0
80	OHX	AR	3463	7/7	0.97	0.09	84,85,92,144	0
80	OHX	AR	3464	7/7	0.97	0.11	72,75,86,124	0
80	OHX	AR	3465	7/7	0.97	0.11	68,72,78,118	0
80	OHX	AR	3466	7/7	0.97	0.12	83,87,97,123	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	1	4146	7/7	0.97	0.10	98,101,104,164	0
80	OHX	1	3438	7/7	0.97	0.10	88,89,96,143	0
81	MG	1	3781	1/1	0.97	0.15	45,45,45,45	0
80	OHX	AR	3469	7/7	0.97	0.08	73,77,82,121	0
80	OHX	AR	3470	7/7	0.97	0.09	82,85,89,145	0
80	OHX	A	2115	7/7	0.97	0.16	84,88,89,104	0
80	OHX	3	221	7/7	0.97	0.10	83,93,108,169	0
80	OHX	AR	3474	7/7	0.97	0.14	70,81,92,126	0
80	OHX	A	2116	7/7	0.97	0.12	85,86,95,105	0
80	OHX	A	2117	7/7	0.97	0.12	82,90,94,118	0
80	OHX	4	204	7/7	0.97	0.11	66,75,78,121	0
80	OHX	1	3442	7/7	0.97	0.10	70,73,81,133	0
80	OHX	1	3406	7/7	0.97	0.14	73,82,88,91	0
81	MG	1	3792	1/1	0.97	0.32	44,44,44,44	0
80	OHX	1	3444	7/7	0.97	0.10	79,83,85,135	0
80	OHX	1	3478	7/7	0.97	0.09	87,98,110,188	0
80	OHX	1	3415	7/7	0.97	0.12	78,81,90,98	0
80	OHX	AT	204	7/7	0.97	0.11	64,73,78,116	0
80	OHX	AR	3483	7/7	0.97	0.11	69,72,79,130	0
81	MG	1	4183	1/1	0.97	0.08	60,60,60,60	0
81	MG	1	3798	1/1	0.97	0.23	55,55,55,55	0
80	OHX	1	3446	7/7	0.97	0.14	69,78,88,113	0
80	OHX	1	3481	7/7	0.97	0.07	86,92,97,150	0
80	OHX	AR	3486	7/7	0.97	0.08	75,80,85,141	0
81	MG	1	4015	1/1	0.97	0.06	64,64,64,64	0
80	OHX	AR	3487	7/7	0.97	0.12	69,75,81,132	0
81	MG	sR	2058	1/1	0.97	0.25	53,53,53,53	0
81	MG	1	4194	1/1	0.97	0.05	93,93,93,93	0
80	OHX	1	3447	7/7	0.97	0.13	69,76,83,121	0
81	MG	AR	3737	1/1	0.97	0.49	53,53,53,53	0
80	OHX	1	3483	7/7	0.97	0.08	99,102,109,180	0
80	OHX	1	3448	7/7	0.97	0.09	89,92,98,148	0
81	MG	1	3806	1/1	0.97	0.36	44,44,44,44	0
80	OHX	1	3449	7/7	0.97	0.10	74,80,83,126	0
80	OHX	A	1904	7/7	0.97	0.09	83,87,91,123	0
81	MG	1	4023	1/1	0.97	0.07	54,54,54,54	0
80	OHX	4	237	7/7	0.97	0.10	72,78,81,140	0
80	OHX	1	3418	7/7	0.97	0.12	76,81,97,101	0
80	OHX	1	3452	7/7	0.97	0.10	72,84,93,124	0
80	OHX	1	3453	7/7	0.97	0.11	74,82,88,139	0
80	OHX	AR	3499	7/7	0.97	0.08	92,96,100,156	0
80	OHX	A	2128	7/7	0.97	0.09	92,95,104,163	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	A	2149	7/7	0.97	0.10	79,83,89,140	0
81	MG	AR	3864	1/1	0.97	0.28	44,44,44,44	0
80	OHX	1	3457	7/7	0.97	0.12	78,84,91,147	0
80	OHX	1	3422	7/7	0.97	0.13	61,79,85,107	0
80	OHX	A	2129	7/7	0.97	0.08	99,100,103,168	0
80	OHX	CX	201	7/7	0.97	0.12	70,74,87,118	0
81	MG	AR	3755	1/1	0.97	0.31	43,43,43,43	0
81	MG	A	2164	1/1	0.97	0.06	62,62,62,62	0
80	OHX	1	3424	7/7	0.97	0.13	81,82,86,104	0
80	OHX	1	4122	7/7	0.97	0.18	74,76,82,82	0
80	OHX	AR	3507	7/7	0.97	0.09	84,89,96,171	0
80	OHX	1	4127	7/7	0.97	0.14	75,82,85,94	0
80	OHX	1	3461	7/7	0.97	0.09	90,93,96,152	0
81	MG	1	3826	1/1	0.97	0.51	45,45,45,45	0
80	OHX	AR	3510	7/7	0.97	0.11	68,71,79,115	0
85	ZN	AP	501	1/1	0.97	0.04	114,114,114,114	0
80	OHX	1	4132	7/7	0.97	0.10	76,81,84,122	0
80	OHX	AR	3512	7/7	0.97	0.07	89,91,100,157	0
81	MG	P	201	1/1	0.97	0.07	66,66,66,66	0
80	OHX	AR	3513[A]	7/7	0.97	0.14	80,83,86,98	7
80	OHX	sR	1907	7/7	0.97	0.12	72,86,98,102	0
81	MG	1	3834	1/1	0.97	0.11	47,47,47,47	0
80	OHX	sR	1909	7/7	0.97	0.13	68,81,87,98	0
81	MG	AR	3885	1/1	0.97	0.05	51,51,51,51	0
81	MG	sR	2097	1/1	0.97	0.07	61,61,61,61	0
80	OHX	AR	3417	7/7	0.98	0.12	82,83,92,97	0
81	MG	1	4186	1/1	0.98	0.06	65,65,65,65	0
81	MG	1	4187	1/1	0.98	0.05	71,71,71,71	0
80	OHX	sR	1903	7/7	0.98	0.14	62,67,71,80	0
81	MG	1	4189	1/1	0.98	0.06	75,75,75,75	0
80	OHX	AR	3418	7/7	0.98	0.12	67,84,90,92	0
80	OHX	sR	1906	7/7	0.98	0.10	77,84,90,99	0
80	OHX	AR	3419	7/7	0.98	0.11	76,79,87,88	0
80	OHX	AR	3420	7/7	0.98	0.11	79,81,88,96	0
81	MG	AR	4246	1/1	0.98	0.04	48,48,48,48	0
81	MG	AR	4247	1/1	0.98	0.06	52,52,52,52	0
80	OHX	sR	1910	7/7	0.98	0.14	74,81,87,103	0
80	OHX	AR	3421	7/7	0.98	0.12	83,87,90,97	0
80	OHX	AR	3490	7/7	0.98	0.10	72,76,79,110	0
80	OHX	sR	1913	7/7	0.98	0.10	78,80,84,104	0
80	OHX	AR	3422	7/7	0.98	0.11	78,89,92,94	0
80	OHX	AR	3492	7/7	0.98	0.08	81,85,89,154	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3423	7/7	0.98	0.12	81,83,87,88	0
80	OHX	AR	3425	7/7	0.98	0.18	76,89,92,97	0
80	OHX	AR	3426	7/7	0.98	0.11	77,79,87,97	0
80	OHX	1	4128	7/7	0.98	0.12	76,77,85,96	0
80	OHX	sR	1919	7/7	0.98	0.10	71,75,81,113	0
80	OHX	AR	3429	7/7	0.98	0.10	73,75,83,106	0
80	OHX	1	3413	7/7	0.98	0.12	76,80,90,97	0
80	OHX	AR	4206	7/7	0.98	0.12	56,63,68,74	0
80	OHX	AR	3431	7/7	0.98	0.11	78,81,86,98	0
80	OHX	4	201	7/7	0.98	0.12	78,83,86,89	0
80	OHX	4	203	7/7	0.98	0.14	79,83,88,89	0
80	OHX	AR	3435	7/7	0.98	0.11	75,76,95,106	0
81	MG	AR	3726	1/1	0.98	0.23	45,45,45,45	0
80	OHX	1	4130	7/7	0.98	0.12	78,84,89,98	0
80	OHX	1	4131	7/7	0.98	0.11	71,78,85,105	0
80	OHX	1	3431	7/7	0.98	0.10	82,82,90,125	0
80	OHX	1	3414	7/7	0.98	0.12	78,82,88,96	0
81	MG	AR	4071	1/1	0.98	0.05	55,55,55,55	0
80	OHX	1	4134	7/7	0.98	0.10	79,80,85,126	0
80	OHX	1	4135	7/7	0.98	0.11	74,81,87,97	0
80	OHX	1	3433	7/7	0.98	0.09	76,83,85,115	0
80	OHX	1	3454	7/7	0.98	0.10	86,94,100,133	0
81	MG	1	3829	1/1	0.98	0.32	44,44,44,44	0
80	OHX	DD	101	7/7	0.98	0.13	73,82,94,100	0
80	OHX	1	3416	7/7	0.98	0.11	77,83,84,105	0
80	OHX	A	2123	7/7	0.98	0.07	104,107,110,155	0
81	MG	1	3753	1/1	0.98	0.06	54,54,54,54	0
80	OHX	1	3437	7/7	0.98	0.10	76,85,89,128	0
80	OHX	AS	202	7/7	0.98	0.10	74,82,85,116	0
81	MG	AT	229	1/1	0.98	0.08	90,90,90,90	0
81	MG	sR	2192	1/1	0.98	0.04	89,89,89,89	0
81	MG	sR	2193	1/1	0.98	0.03	93,93,93,93	0
81	MG	1	3836	1/1	0.98	0.06	62,62,62,62	0
80	OHX	AR	3581	7/7	0.98	0.07	73,76,83,158	0
80	OHX	A	2114	7/7	0.98	0.15	77,85,88,96	0
80	OHX	AR	3449	7/7	0.98	0.09	83,88,94,126	0
80	OHX	AR	3584	7/7	0.98	0.08	82,84,88,135	0
80	OHX	1	3419	7/7	0.98	0.10	79,80,87,95	0
80	OHX	A	1902	7/7	0.98	0.12	79,83,85,108	0
80	OHX	1	3401	7/7	0.98	0.13	49,53,63,67	0
80	OHX	1	3405	7/7	0.98	0.15	73,77,91,95	0
80	OHX	1	3485	7/7	0.98	0.08	87,89,92,136	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3455	6/7	0.98	0.08	78,83,88,131	0
80	OHX	AT	203	7/7	0.98	0.14	77,79,83,93	0
80	OHX	A	1910	7/7	0.98	0.09	88,91,96,141	0
80	OHX	n	201	7/7	0.98	0.11	70,77,80,82	0
80	OHX	AR	3458	7/7	0.98	0.08	70,76,80,117	0
80	OHX	1	3407	7/7	0.98	0.12	77,79,85,87	0
80	OHX	1	3409	7/7	0.98	0.10	77,79,87,97	0
80	OHX	1	3410	7/7	0.98	0.13	71,75,83,88	0
80	OHX	sR	1957	7/7	0.98	0.07	129,131,132,188	0
80	OHX	AR	3462	7/7	0.98	0.09	75,82,85,141	0
81	MG	AR	4190	1/1	0.98	0.18	49,49,49,49	0
80	OHX	1	4108	7/7	0.98	0.13	79,81,86,88	0
80	OHX	1	3427	7/7	0.98	0.10	76,81,85,103	0
80	OHX	1	3411	7/7	0.98	0.11	73,76,87,91	0
81	MG	AR	4106	1/1	0.98	0.09	56,56,56,56	0
80	OHX	2	201	7/7	0.98	0.11	78,81,91,99	0
80	OHX	1	4123	7/7	0.98	0.13	58,62,73,77	0
80	OHX	1	4124	7/7	0.98	0.12	76,78,85,86	0
80	OHX	1	4125	7/7	0.98	0.12	85,86,98,103	0
80	OHX	AR	3401	7/7	0.98	0.14	53,61,67,73	0
80	OHX	AR	3471	7/7	0.98	0.07	79,79,85,142	0
80	OHX	AR	3402	7/7	0.98	0.16	59,61,70,72	0
80	OHX	AR	3403	7/7	0.98	0.14	67,67,73,73	0
80	OHX	AR	3404	7/7	0.98	0.13	72,75,78,78	0
85	ZN	AK	103	1/1	0.98	0.04	58,58,58,58	0
80	OHX	AR	3405	7/7	0.98	0.14	73,76,79,82	0
80	OHX	AR	3406	7/7	0.98	0.12	83,84,87,89	0
85	ZN	DQ	202	1/1	0.98	0.04	114,114,114,114	0
85	ZN	b	201	1/1	0.98	0.05	95,95,95,95	0
80	OHX	AR	3407	7/7	0.98	0.17	74,79,84,85	0
85	ZN	e	101	1/1	0.98	0.04	93,93,93,93	0
85	ZN	g	501	1/1	0.98	0.04	130,130,130,130	0
80	OHX	AR	3409	7/7	0.98	0.13	64,67,76,80	0
85	ZN	d9	101	1/1	0.98	0.05	96,96,96,96	0
80	OHX	1	4126	7/7	0.98	0.13	80,85,90,91	0
80	OHX	AR	3412	7/7	0.98	0.12	76,80,84,86	0
80	OHX	AR	3413	7/7	0.98	0.12	83,84,93,95	0
80	OHX	AR	3414	7/7	0.98	0.14	79,82,90,95	0
80	OHX	AR	3415	7/7	0.98	0.12	77,82,86,94	0
80	OHX	1	3412	7/7	0.98	0.12	77,78,89,96	0
81	MG	A	2162	1/1	0.99	0.14	54,54,54,54	0
81	MG	A	2163	1/1	0.99	0.07	67,67,67,67	0

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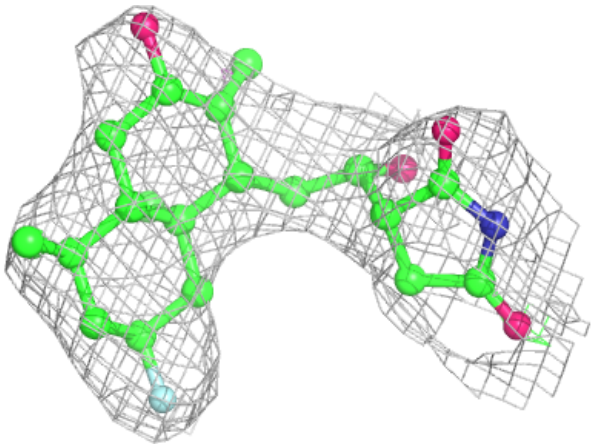
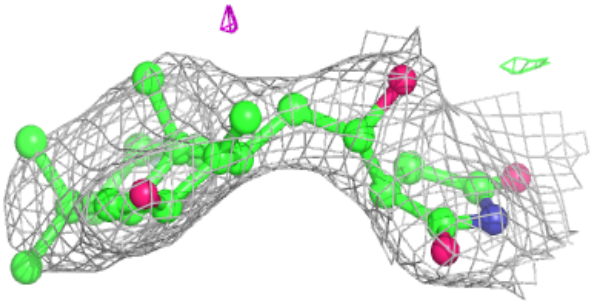
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
80	OHX	AR	3424	7/7	0.99	0.09	82,85,94,94	0
80	OHX	sR	1908	7/7	0.99	0.10	81,81,86,96	0
81	MG	AR	4240	1/1	0.99	0.04	43,43,43,43	0
80	OHX	1	3404	7/7	0.99	0.12	72,81,84,85	0
81	MG	AR	4242	1/1	0.99	0.06	59,59,59,59	0
85	ZN	AN	202	1/1	0.99	0.03	66,66,66,66	0
80	OHX	1	3408	7/7	0.99	0.10	77,83,89,92	0
85	ZN	AQ	501	1/1	0.99	0.04	88,88,88,88	0
81	MG	AR	4244	1/1	0.99	0.09	86,86,86,86	0
85	ZN	DL	103	1/1	0.99	0.04	64,64,64,64	0
85	ZN	DO	201	1/1	0.99	0.03	48,48,48,48	0
81	MG	AR	4245	1/1	0.99	0.05	45,45,45,45	0
85	ZN	DR	501	1/1	0.99	0.04	88,88,88,88	0
81	MG	1	4192	1/1	0.99	0.05	88,88,88,88	0
80	OHX	AR	3427	7/7	0.99	0.10	80,82,90,91	0
81	MG	AR	4248	1/1	0.99	0.12	42,42,42,42	0
81	MG	AR	4249	1/1	0.99	0.09	49,49,49,49	0
85	ZN	d6	203	1/1	0.99	0.04	70,70,70,70	0
81	MG	AR	4250	1/1	0.99	0.08	48,48,48,48	0
80	OHX	AR	3408	7/7	0.99	0.12	78,88,92,93	0
80	OHX	1	3402	7/7	0.99	0.10	48,49,52,70	0
80	OHX	AR	3410	7/7	0.99	0.10	51,52,54,72	0
81	MG	AR	4254	1/1	0.99	0.08	46,46,46,46	0
80	OHX	1	3403	7/7	0.99	0.12	53,56,62,70	0
80	OHX	sR	1905	7/7	0.99	0.13	78,83,87,90	0
80	OHX	AR	3432	7/7	0.99	0.13	85,90,97,99	0

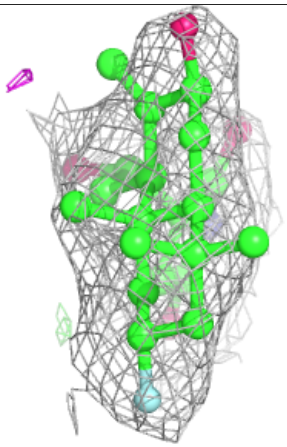
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around VDU AR 4255:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

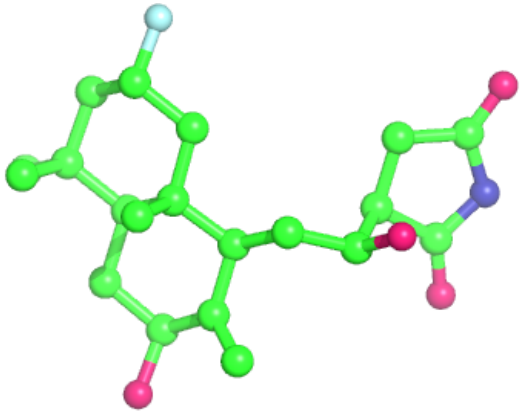


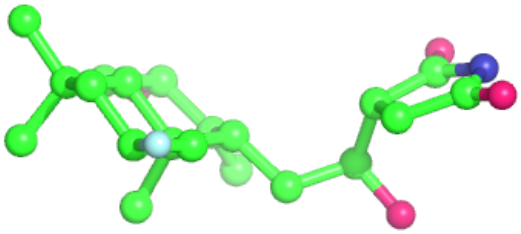


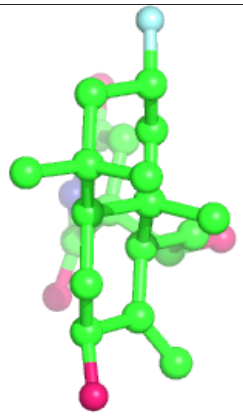


Electron density around VDU 1 4195:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)







6.5 Other polymers

There are no such residues in this entry.