



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 26, 2026 – 08:11 AM EDT

PDB ID : 5MEI / pdb_00005mei
Title : Crystal structure of Agelastatin A bound to the 80S ribosome
Authors : McClary, B.; Zinshteyn, B.; Meyer, M.; Jouanneau, M.; Pellegrino, S.;
Yusupova, G.; Schuller, A.; Reyes, J.C.P.; Lu, J.; Luo, C.; Dang, Y.; Romo,
D.; Yusupov, M.; Green, R.; Liu, J.O.
Deposited on : 2016-11-15
Resolution : 3.50 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

<http://www.wwpdb.org/validation/2017/FAQs#types>.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity	:	4-5-2 with Phenix2.0
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Buster-report	:	wwPDB partial adaption of 1.1.7 (2018)
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

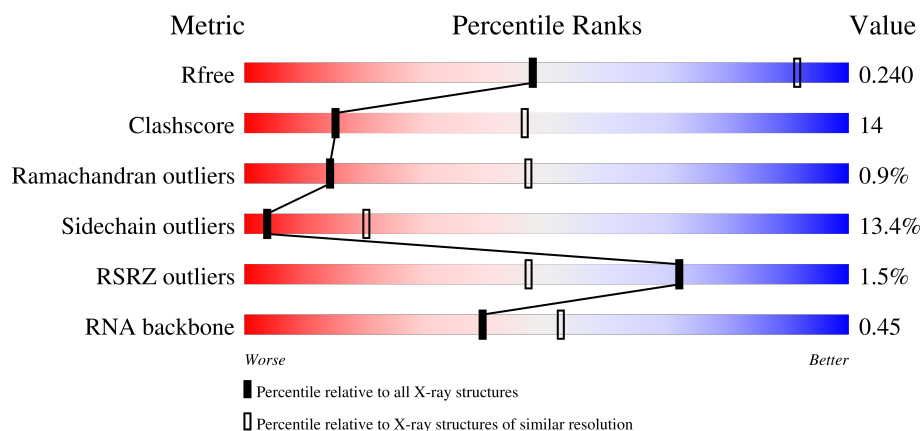
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.50 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1085 (3.54-3.46)
Clashscore	190562	1140 (3.54-3.46)
Ramachandran outliers	187476	1113 (3.54-3.46)
Sidechain outliers	187428	1114 (3.54-3.46)
RSRZ outliers	180081	1084 (3.54-3.46)
RNA backbone	3983	1010 (3.98-3.02)

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

Mol	Chain	Length	Quality of chain
1	1	3396	% 45% 40% 9% 7%
1	AR	3396	% 45% 39% 9% 7%
2	3	121	% 53% 40% 7%

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Mol	Chain	Length	Quality of chain
2	AS	121	% 50% 45% .
3	4	158	% 44% 46% 11%
3	AT	158	% 50% 42% 8%
4	CD	252	% 62% 32% 6%
4	j	252	% 58% 37% 5%
5	CE	386	56% 34% 9%
5	k	386	49% 42% 9%
6	CF	361	60% 34% 5%
6	l	361	52% 40% 7%
7	CG	296	61% 31% 7%
7	m	296	61% 34% 5%
8	CH	175	58% 26% 5% 11%
8	n	175	63% 23% . 11%
9	CI	222	59% 34% 7%
9	o	222	58% 38% .
10	CJ	233	% 61% 35% .
10	p	233	69% 27% . .
11	CK	191	53% 36% 11%
11	q	191	% 54% 38% 7% .
12	CL	220	3% 52% 37% 6% .
12	r	220	2% 58% 31% 7% .
13	CM	169	60% 31% 8% .
13	s	169	% 56% 36% 8%
14	CN	193	58% 36% 6%
14	t	193	% 57% 36% 7%

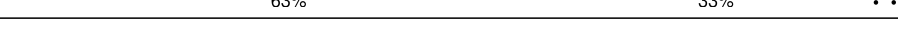
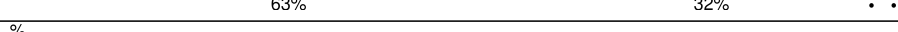
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Mol	Chain	Length	Quality of chain
15	CO	136	
15	u	136	
16	CP	203	
16	v	203	
17	CQ	197	
17	w	197	
18	CR	183	
18	x	183	
19	CS	185	
19	y	185	
20	CT	188	
20	z	188	
21	0	172	
21	CU	172	
22	2	159	
22	CV	159	
23	5	100	
23	CW	100	
24	CX	136	
24	l2	136	
25	6	1800	
25	A	1800	
26	7	98	
26	CY	98	
27	8	121	

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Mol	Chain	Length	Quality of chain
27	CZ	121	
28	9	126	
28	DA	126	
29	AA	135	
29	DB	135	
30	AB	148	
30	DC	148	
31	AC	58	
31	DD	58	
32	AD	97	
32	DE	97	
33	AE	109	
33	DF	109	
34	AF	127	
34	DG	127	
35	AG	106	
35	DH	106	
36	AH	112	
36	DI	112	
37	AI	119	
37	DJ	119	
38	AJ	99	
38	DK	99	
39	AK	87	
39	DL	87	

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Mol	Chain	Length	Quality of chain
40	AL	77	
40	DM	77	
41	AM	50	
41	DN	50	
42	AN	52	
42	DO	52	
43	AO	25	
43	DP	25	
44	AP	105	
44	DQ	105	
45	AQ	91	
45	DR	91	
46	i	168	
47	p0	220	
48	sM	104	
49	B	206	
49	s0	206	
50	C	216	
50	s1	216	
51	D	217	
51	s2	217	
52	E	223	
52	s3	223	
53	F	260	
53	s4	260	

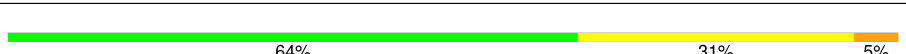
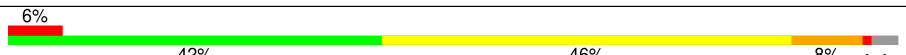
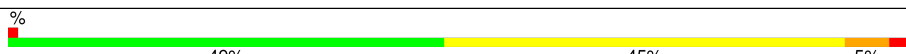
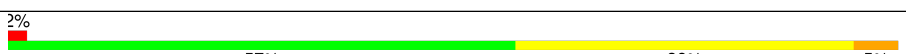
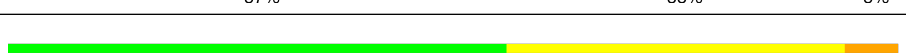
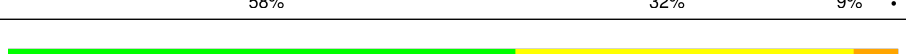
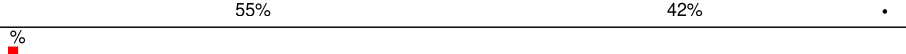
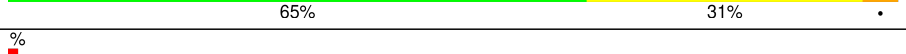
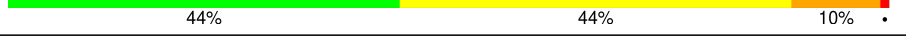
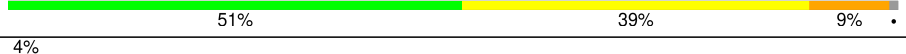
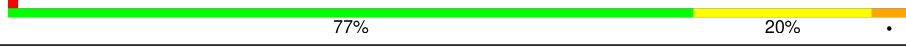
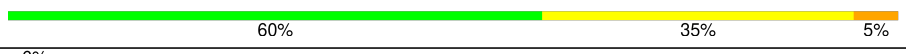
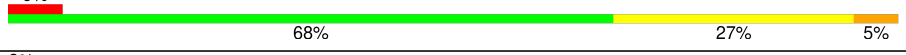
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Mol	Chain	Length	Quality of chain
54	G	206	
54	s5	206	
55	H	226	
55	s6	226	
56	I	186	
56	s7	186	
57	J	199	
57	s8	199	
58	K	185	
58	s9	185	
59	L	105	
59	c0	105	
60	M	155	
60	c1	155	
61	N	124	
61	c2	124	
62	O	150	
62	c3	150	
63	P	128	
63	c4	128	
64	Q	141	
64	c5	141	
65	R	142	
65	c6	142	
66	S	125	

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Mol	Chain	Length	Quality of chain
67	T	145	
67	c8	145	
68	U	143	
68	c9	143	
69	V	110	
69	d0	110	
70	W	87	
70	d1	87	
71	X	129	
71	d2	129	
72	Y	144	
72	d3	144	
73	Z	134	
73	d4	134	
74	a	70	
74	d5	70	
75	b	97	
75	d6	97	
76	c	81	
76	d7	81	
77	d	63	
77	d8	63	
78	d9	53	
78	e	53	
79	e0	62	

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Mol	Chain	Length	Quality of chain
79	f	62	
80	g	71	
81	h	318	
81	sR	318	
82	c7	121	
83	e1	51	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
84	OHX	1	3406	-	-	X	-
84	OHX	1	3471	-	-	X	-
84	OHX	1	3496	-	-	X	-
84	OHX	1	3594	-	-	X	-
84	OHX	1	3702	-	-	X	-
84	OHX	A	1954	-	-	X	-
84	OHX	AE	201	-	-	X	-
84	OHX	AR	3443	-	-	X	-
84	OHX	AR	3604	-	-	X	-
84	OHX	AR	3731	-	-	X	-
84	OHX	CG	302	-	-	X	-

2 Entry composition [i](#)

There are 87 unique types of molecules in this entry. The entry contains 409590 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 13 is a protein called 60S ribosomal protein L11-B.

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	12	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
24	CX	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

- Molecule 25 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	6	1783	Total	C	N	O	P	0	0	0
			37990	16984	6723	12500	1783			
25	A	1781	Total	C	N	O	P	0	0	0
			37948	16965	6715	12487	1781			

- Molecule 26 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	7	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	CY	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			

- Molecule 27 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	8	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			
27	CZ	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			

- Molecule 28 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	9	126	Total	C	N	O		0	0	0
			993	625	192	176				
28	DA	126	Total	C	N	O		0	0	0
			993	625	192	176				

- Molecule 29 is a protein called 60S ribosomal protein L27-A.

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

- Molecule 30 is a protein called 60S ribosomal protein L28.

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

- Molecule 31 is a protein called 60S ribosomal protein L29.

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

- Molecule 32 is a protein called 60S ribosomal protein L30.

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

- Molecule 33 is a protein called 60S ribosomal protein L31-A.

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

- 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 protein called 60S ribosomal protein L33-A.

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

- Molecule 36 is a protein called 60S ribosomal protein L34-A.

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

- Molecule 37 is a protein called 60S ribosomal protein L35-A.

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

- Molecule 38 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	AJ	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
38	DK	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			

- Molecule 39 is a protein called 60S ribosomal protein L37-A.

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

- Molecule 40 is a protein called 60S ribosomal protein L38.

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

- Molecule 41 is a protein called 60S ribosomal protein L39.

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

- Molecule 42 is a protein called Ubiquitin-60S ribosomal protein L40.

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

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

- Molecule 43 is a protein called 60S ribosomal protein L41-B.

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

- Molecule 44 is a protein called 60S ribosomal protein L42-A.

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

- Molecule 45 is a protein called 60S ribosomal protein L43-A.

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

- Molecule 46 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
46	i	159	Total	C	N	O	0	0	0
			1104	652	221	231			

- Molecule 47 is a protein called 60S acidic ribosomal protein P0.

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

- Molecule 48 is a protein called Suppressor protein STM1,Suppressor protein STM1,Suppressor protein Stm1 - Mol B.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	sM	104	Total	C	N	O			
			680	403	140	137	0	0	0

- Molecule 49 is a protein called 40S ribosomal protein S0-A.

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

- Molecule 50 is a protein called 40S ribosomal protein S1-A.

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

- Molecule 51 is a protein called 40S ribosomal protein S2.

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

- Molecule 52 is a protein called 40S ribosomal protein S3.

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

- Molecule 53 is a protein called 40S ribosomal protein S4-A.

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

- Molecule 54 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	G	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
54	s5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 55 is a protein called 40S ribosomal protein S6-A.

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

- Molecule 56 is a protein called 40S ribosomal protein S7-A.

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

- Molecule 57 is a protein called 40S ribosomal protein S8-A.

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

- Molecule 58 is a protein called 40S ribosomal protein S9-A.

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

- Molecule 59 is a protein called 40S ribosomal protein S10-A.

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

- Molecule 60 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	M	155	Total	C	N	O	S	0	0	0
			1213	774	230	206	3			
60	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

- Molecule 61 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	N	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			
61	c2	124	Total	C	N	O	S	0	0	0
			890	560	156	172	2			

- Molecule 62 is a protein called 40S ribosomal protein S13.

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

- Molecule 63 is a protein called 40S ribosomal protein S14-B.

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

- Molecule 64 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	Q	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	7			

- Molecule 65 is a protein called 40S ribosomal protein S16-A.

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

- Molecule 66 is a protein called 40S ribosomal protein S17-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	S	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			

- Molecule 67 is a protein called 40S ribosomal protein S18-A.

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

- Molecule 68 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 69 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	V	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
69	d0	110	Total	C	N	O	S	0	0	0
			882	554	161	166	1			

- Molecule 70 is a protein called 40S ribosomal protein S21-A.

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

- Molecule 71 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 72 is a protein called 40S ribosomal protein S23-A.

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

- Molecule 73 is a protein called 40S ribosomal protein S24-A.

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

- Molecule 74 is a protein called 40S ribosomal protein S25-A.

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

- Molecule 75 is a protein called 40S ribosomal protein S26-B.

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

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

- Molecule 76 is a protein called 40S ribosomal protein S27-A.

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

- Molecule 77 is a protein called 40S ribosomal protein S28-A.

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

- Molecule 78 is a protein called 40S ribosomal protein S29-A.

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

- Molecule 79 is a protein called 40S ribosomal protein S30-A.

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

- Molecule 80 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	g	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			

- Molecule 81 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	h	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			
81	sR	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

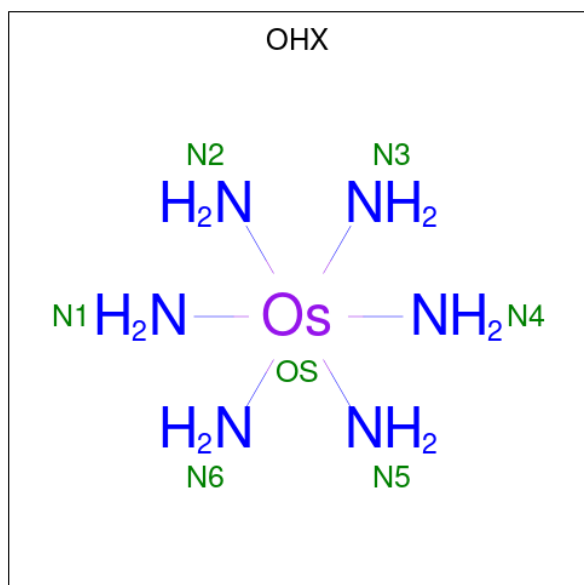
- Molecule 82 is a protein called 40S ribosomal protein S17-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
82	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	2			

- Molecule 83 is a protein called Ubiquitin-40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
83	e1	51	Total	C	N	O	S	0	0	0
			397	249	73	71	4			

- Molecule 84 is osmium (III) hexammine (CCD ID: OHX) (formula: $\text{H}_{12}\text{N}_6\text{Os}$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
			7	6	1		
84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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84	1	1	Total	N	Os	0	0
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84	3	1	Total	N	Os	0	0
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84	3	1	Total	N	Os	0	0
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84	3	1	Total	N	Os	0	0
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			7	6	1		
84	3	1	Total	N	Os	0	0
			7	6	1		
84	3	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	4	1	Total	N	Os	0	0
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84	4	1	Total	N	Os	0	0
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84	4	1	Total	N	Os	0	0
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84	4	1	Total	N	Os	0	0
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84	k	1	Total	N	Os	0	0
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84	k	1	Total	N	Os	0	0
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84	l	1	Total	N	Os	0	0
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84	r	1	Total	N	Os	0	0
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84	v	1	Total	N	Os	0	0
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84	x	1	Total	N	Os	0	0
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84	x	1	Total	N	Os	0	0
			7	6	1		
84	y	1	Total	N	Os	0	0
			7	6	1		
84	z	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	6	1	Total	N	Os	0	0
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84	6	1	Total	N	Os	0	0
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84	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	6	1	Total	N	Os	0	0
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84	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	6	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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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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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
			7	6	1		
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84	AR	1	Total	N	Os	0	0
			7	6	1		
84	AR	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
			7	6	1		
84	AR	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
			7	6	1		
84	AR	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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84	AR	1	Total	N	Os	0	0
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			7	6	1		
84	AR	1	Total	N	Os	0	0
			7	6	1		
84	AS	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	AS	1	Total	N	Os	0	0
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84	AS	1	Total	N	Os	0	0
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84	AS	1	Total	N	Os	0	0
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84	AT	1	Total	N	Os	0	0
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84	AT	1	Total	N	Os	0	0
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84	AT	1	Total	N	Os	0	0
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			7	6	1		
84	AT	1	Total	N	Os	0	0
			7	6	1		
84	AT	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	AT	1	Total	N	Os	0	0
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84	AT	1	Total	N	Os	0	0
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84	AT	1	Total	N	Os	0	0
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84	AT	1	Total	N	Os	0	0
			7	6	1		
84	AT	1	Total	N	Os	0	0
			7	6	1		
84	CE	1	Total	N	Os	0	0
			7	6	1		
84	CE	1	Total	N	Os	0	0
			7	6	1		
84	CF	1	Total	N	Os	0	0
			7	6	1		
84	CF	1	Total	N	Os	0	0
			7	6	1		
84	CG	1	Total	N	Os	0	0
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84	CG	1	Total	N	Os	0	0
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84	CG	1	Total	N	Os	0	0
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84	CK	1	Total	N	Os	0	0
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84	CL	1	Total	N	Os	0	0
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84	CL	1	Total	N	Os	0	0
			7	6	1		
84	CM	1	Total	N	Os	0	0
			7	6	1		
84	CO	1	Total	N	Os	0	0
			7	6	1		
84	CP	1	Total	N	Os	0	0
			7	6	1		
84	CV	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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84	CZ	1	Total	N	Os	0	0
			7	6	1		
84	DD	1	Total	N	Os	0	0
			7	6	1		
84	DG	1	Total	N	Os	0	0
			7	6	1		
84	DH	1	Total	N	Os	0	0
			7	6	1		
84	DI	1	Total	N	Os	0	0
			7	6	1		
84	DL	1	Total	N	Os	0	0
			7	6	1		
84	DL	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
			7	6	1		
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
			7	6	1		
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
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84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
			7	6	1		

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
			7	6	1		
84	A	1	Total	N	Os	0	0
			7	6	1		
84	H	1	Total	N	Os	0	0
			7	6	1		
84	J	1	Total	N	Os	0	0
			7	6	1		
84	M	1	Total	N	Os	0	0
			7	6	1		
84	O	1	Total	N	Os	0	0
			7	6	1		
84	Q	1	Total	N	Os	0	0
			7	6	1		
84	T	1	Total	N	Os	0	0
			7	6	1		
84	e	1	Total	N	Os	0	0
			7	6	1		
84	h	1	Total	N	Os	0	0
			7	6	1		
84	s8	1	Total	N	Os	0	0
			7	6	1		
84	c3	1	Total	N	Os	0	0
			7	6	1		
84	c5	1	Total	N	Os	0	0
			7	6	1		
84	c8	1	Total	N	Os	0	0
			7	6	1		
84	d9	1	Total	N	Os	0	0
			7	6	1		
84	sR	1	Total	N	Os	0	0
			7	6	1		

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	1	490	Total	Mg	0	0
			490	490		
85	3	12	Total	Mg	0	0
			12	12		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	4	21	Total 21	Mg 21	0	0
85	j	2	Total 2	Mg 2	0	0
85	k	2	Total 2	Mg 2	0	0
85	l	2	Total 2	Mg 2	0	0
85	o	3	Total 3	Mg 3	0	0
85	r	1	Total 1	Mg 1	0	0
85	s	1	Total 1	Mg 1	0	0
85	t	2	Total 2	Mg 2	0	0
85	v	1	Total 1	Mg 1	0	0
85	w	1	Total 1	Mg 1	0	0
85	x	5	Total 5	Mg 5	0	0
85	z	2	Total 2	Mg 2	0	0
85	l2	2	Total 2	Mg 2	0	0
85	6	141	Total 141	Mg 141	0	0
85	9	1	Total 1	Mg 1	0	0
85	AB	4	Total 4	Mg 4	0	0
85	AF	2	Total 2	Mg 2	0	0
85	AH	1	Total 1	Mg 1	0	0
85	AK	1	Total 1	Mg 1	0	0
85	AP	1	Total 1	Mg 1	0	0
85	i	1	Total 1	Mg 1	0	0

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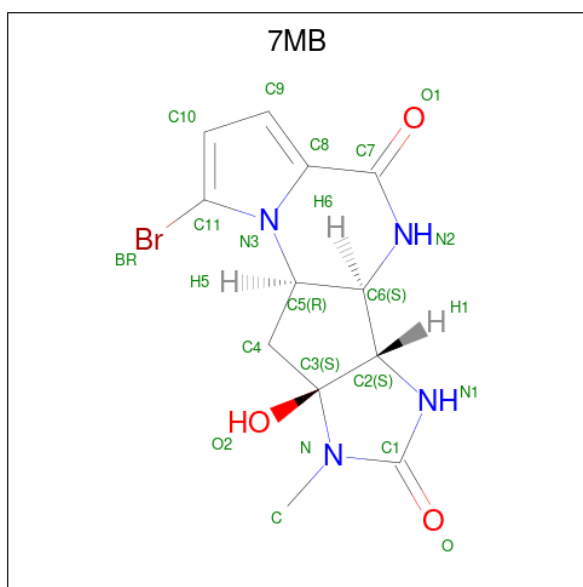
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	AR	504	Total 504	Mg 504	0	0
85	AS	20	Total 20	Mg 20	0	0
85	AT	12	Total 12	Mg 12	0	0
85	CD	2	Total 2	Mg 2	0	0
85	CE	4	Total 4	Mg 4	0	0
85	CF	1	Total 1	Mg 1	0	0
85	CI	1	Total 1	Mg 1	0	0
85	CK	1	Total 1	Mg 1	0	0
85	CO	2	Total 2	Mg 2	0	0
85	CP	2	Total 2	Mg 2	0	0
85	CQ	4	Total 4	Mg 4	0	0
85	CR	6	Total 6	Mg 6	0	0
85	CU	2	Total 2	Mg 2	0	0
85	CX	2	Total 2	Mg 2	0	0
85	DA	1	Total 1	Mg 1	0	0
85	DC	4	Total 4	Mg 4	0	0
85	DD	1	Total 1	Mg 1	0	0
85	DE	1	Total 1	Mg 1	0	0
85	DF	1	Total 1	Mg 1	0	0
85	DG	1	Total 1	Mg 1	0	0
85	DH	2	Total 2	Mg 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	DI	1	Total 1	Mg 1	0	0
85	DO	1	Total 1	Mg 1	0	0
85	DP	1	Total 1	Mg 1	0	0
85	DR	2	Total 2	Mg 2	0	0
85	sM	1	Total 1	Mg 1	0	0
85	A	111	Total 111	Mg 111	0	0
85	D	1	Total 1	Mg 1	0	0
85	F	1	Total 1	Mg 1	0	0
85	Y	1	Total 1	Mg 1	0	0
85	b	1	Total 1	Mg 1	0	0
85	s1	1	Total 1	Mg 1	0	0
85	s2	1	Total 1	Mg 1	0	0
85	s6	1	Total 1	Mg 1	0	0
85	s8	1	Total 1	Mg 1	0	0
85	c6	1	Total 1	Mg 1	0	0
85	c9	1	Total 1	Mg 1	0	0
85	d3	3	Total 3	Mg 3	0	0
85	d5	1	Total 1	Mg 1	0	0
85	d6	1	Total 1	Mg 1	0	0
85	d9	1	Total 1	Mg 1	0	0

- Molecule 86 is Agelastatin A (CCD ID: 7MB) (formula: C₁₂H₁₃BrN₄O₃).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
86	1	1	Total	Br	C	N	O	0	0
			20	1	12	4	3		
86	AR	1	Total	Br	C	N	O	0	0
			20	1	12	4	3		

- Molecule 87 is ZINC ION (CCD ID: ZN) (formula: Zn).

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

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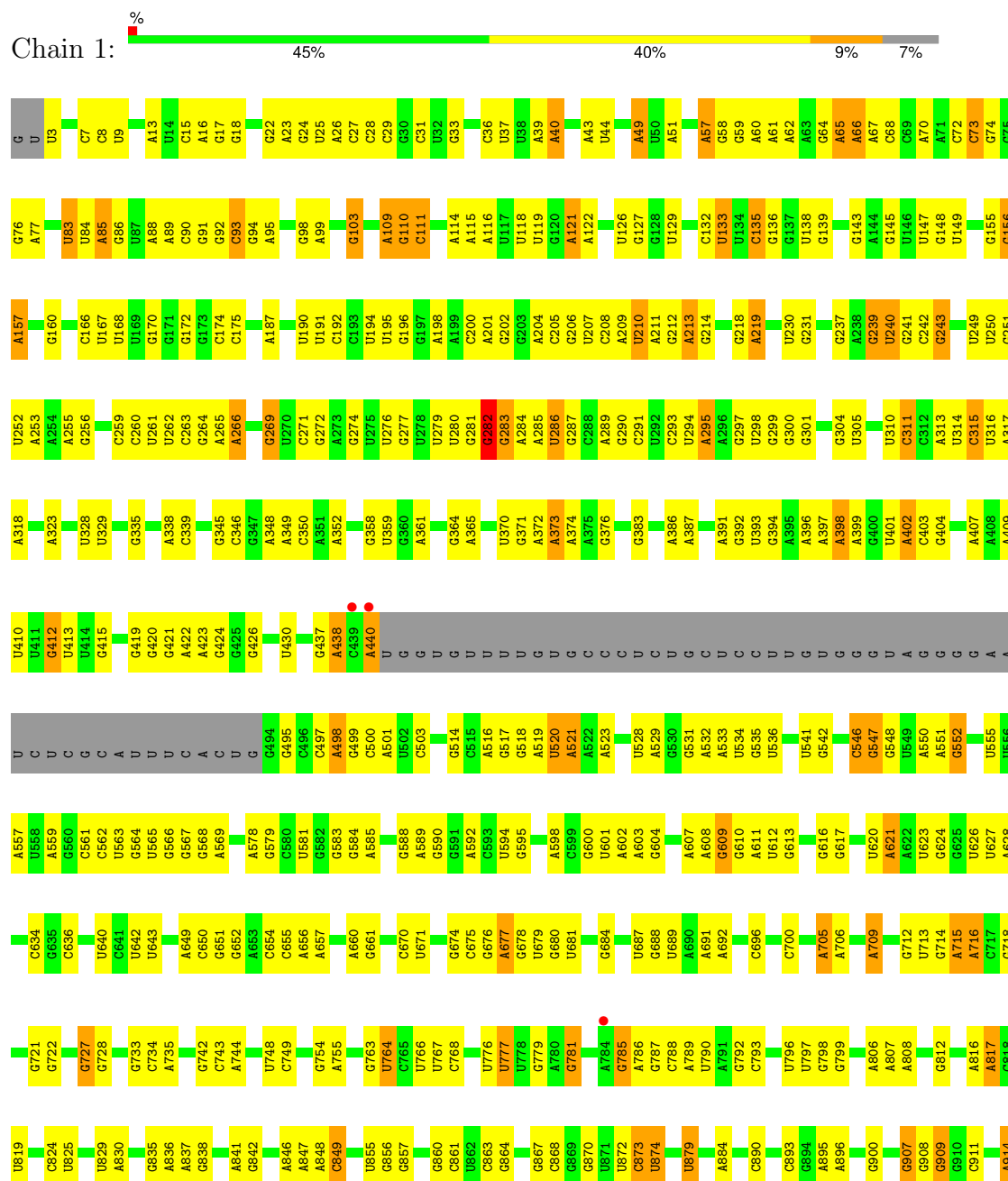
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	e	1	Total 1	Zn 1	0	0
87	g	1	Total 1	Zn 1	0	0
87	d6	1	Total 1	Zn 1	0	0
87	d7	1	Total 1	Zn 1	0	0
87	d9	1	Total 1	Zn 1	0	0
87	e1	1	Total 1	Zn 1	0	0

3 Residue-property plots

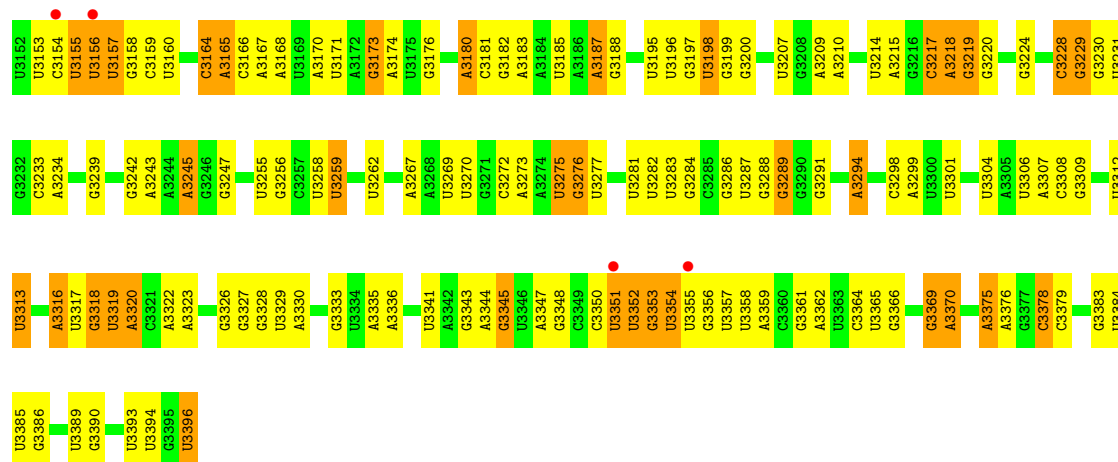
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 25S ribosomal RNA

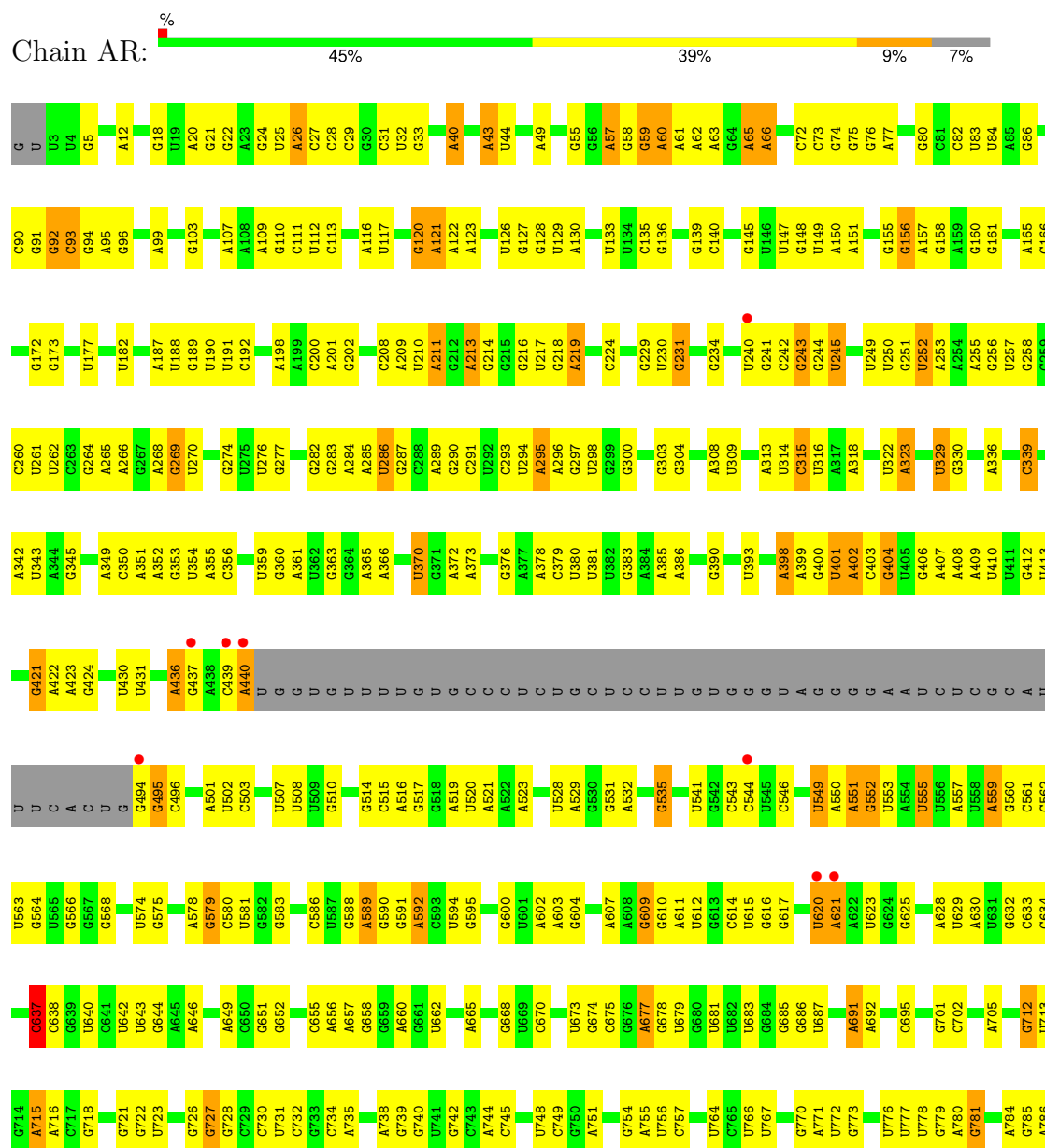


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U	C1951	G1851	U1687	U1523	A1428	G1344	G1256	G1174	A1091	U1008	G916
G	G1952	U1853	U1688	U1595	G1429	U1347	C1257	C1175	C1092	A1009	A917
C	G1953	G1786	U1689	C1527	U1430	U1348	U1258	G1176	C1093	G1010	
U	U1954	C1788	U1695	G1528	G1432	G1349	G1261	G1177	U1094	U1015	A921
C	G1955	G1789	A1696	A1529	A1433	A1350	G1262		U1095	U1016	A922
U	A	G1790	U1600	U1530	G1434	U1351	A1263		C923	G924	
G	A1858	A1699	U1603	C1531	A1435	U1353	G1264	A1180	G1096	G1017	
G	U1859	G1700	G1604	A1534	U1436	U1354	U1269	U1181	A1098	G1018	C928
U	G1860	C1709	A1605	A1535	G1437	A1355	A1270	G1186	A1099	G1019	A929
C	A1861	G1795	U1606	G1536	U1438	U1356	A1271	A1190	U1100	G1020	U930
A	U1862	G1710	U1607	A1537	G1439	G1357	C1272	U1191	G1101		
G	G1863	U1716	U1613	G1538	G1441		A1273	C1192	A1102	G1024	G934
C	C1866	U1717	C1614	G1541	A1446	C1360	A1274	U1191	A1103	A1025	U935
G	A	C1802	G1615	G1542	G1447	G1365	A1274	C1192	G1104	A1026	U936
A	U1874	C1805	U1616	G1543	A1456		A1278	G1194	A1105	A1027	G937
U	U1877	A1866	U1620	A1546	A1461	A1369	C1279	C1201	A1106	U1028	U938
U	G1878	G1807	A1621	G1547	A1466	U1378	G1285	A1204	U1107	G1029	G940
C	A1879	G1808	U1724	U1554	U1471	G1379	A1286	A1205	U1109	U1033	U942
U	U1880	A1809	C1725	C1556	G1466	G1380	A1287	G1209	U1110	U1034	U943
U	A	A1810	U1629	U1555	G1464	U1381	U1288	U1210	U1111	G1035	C944
G	A1866	G1811	U1630	C1556	A1465	G1379	G1289	U1211	U1114	A1036	C945
U	A	G1812	C1631	A1557	G1466	G1380	A1294	U1212	G1115	C1037	U946
C	A	A1813	G1634	U1558	U1466	G1381	A1295	A1213	G1116	G1038	
G	G1892	A1814	G1635	A1559	U1471	G1382	C1296	U1214	G1117	U1039	A952
U	U1893	A1815	G1636	G1560	U1472	G1386	C1297	U1215	A1130	A1040	G953
C	A1894	G1816	G1637	G1561	G1473	A1387	U1298	C1216	G1126	U1041	
C	U1895	U1817	A1638	C1562	U1477	G1387	U1299	A1217	G1127	U1042	C959
C	A1901	U1818	C1639	C1563	A1477	U1388	G1300		U1128	G1043	U960
U	A	U1819	G1640	U1564	U1478	G1389	A1301	G1222	A1129	A1047	
U	G1906	U1820	G1643	U1566	U1479	A1390	A1302	C1227	G1131	A1048	G964
G	U1907	C1822	A1643	U1567	G1480	C1391	G1307	C1228	G1132	A1049	A965
U	A1908	U1821	U1643	U1568	A1481	G1392	A1308	G1229	A1133	U1050	G968
U	U1909	U1822	G1650	U1569	A1482	A1393	U1309	G1230	G1134	C969	
U	A1910	U1824	C1657	U1570	G1483	A1394		A1231	A1135	U1051	
A	U1911	G1825	U1658	A1571	U1484		G1313	C1232	A1054	G974	
G	U1912	C1826	U1659	U1571	G1485	A1399	C1314	G1233	A1055	C975	
A	G1913	U1827	U1660	A1572	G1486	G1400	C1315	G1234	A1056	U976	
C	U1914	A1828	G1661	C1574	G1487	G1404	U1316	U1235	A1064	G977	
G	A1915	G1830	G1662	A1575	G1488		A1317	G1236	A1065	U979	
U	C1918	U1749	G1663	G1576			A1318	G1237	G1066	A980	
C	A	G1751	G1664	G1577	G1492	G1408	G1319	G1238	U1067	C981	
C	U1925	G1754	G1666	C1578	U1493	G1409	C1320	G1145	C1068	C982	
U	C1926	A1835	A1667	C1579	U1494	U1410		G1141	G1069	A983	
U	G1927	A1760	G1668	A1580	U1495		U1329	A1153	U1070		
G	A	G1761	C1669	C1581	C1496	G1414	U1330	G1242	A1071	G993	
U	C	C1762	G1674	C1582	C1497	U1415	A1334	G1243	A1158	G994	
U	A	U1765	G1675	A1583	A1498	C1416	U1334	A1244	A1159	U995	
A	U1933	A1841	A1676	G1586	C1500	A1418		A1245	G1160		
G	G1934	U1842	A1677	U1587	G1500	A1419	A1337	G1246	A1163	U1078	G999
G	U1935	C1843	G1677	A1588	C1508	C1420	C1338	U1247	G1164	U1079	C1000
U	U1936	C1844	U1768	A1589	G1514	G1421	C1339	C1248	A1165	G1166	G1001
C	U1937	G1845	G1769	G1590			U1341	G1249	G1166	U1081	A1002
U	U1938	C1846	U1682	G1591	G1517	U1425		C1254	A1170		A1006
C	G1939	G1940	U1683	G1592	G1517	C1426				G1087	
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A3073	G2913	C2913	A2820		U2665	G2585	A2502	A2442	A2372	U2296	G2221	C2146	A
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G3075	G2987	U2915	G2827	U2746	G2672	U2588	U2505	A2444	C2374	U2298	A2223	U2148	A
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G3085	A3008	A2933	G2841	G2754	U2683	G2606	G2522		C2383	U2310	A2232	G2157	U
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G3087	U3013	U2935	C2843			G2608	A2524		U2385	A2312	A2234		C
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U3107	G3028	G2945	A2862	A2769	A2696	G2620	U2537		G2400	A2332	G2250		A2096
A3109	A3029	A2946	C2863	C2770	G2697	G2621	U2538		A2401	C2333		G2177	G2095
G3108	G3030	G2947		C2771	G2698	G2622	U2539		A2402	U2334		G2179	A2097
	A3035	C2948	C2867	C2772	G2699	G2623	G2540		G2403	G2335	U2254	G2181	C2098
A3113		U2949	U2868	U2775	U2703	C2624	U2541		A2404	U2336	A2255		C2101
A3114		U2950	U2869	C2776	A2702	C2625	U2542		C2405	U2337	A2256		U2102
C3115	C3039	G2951	C2870	G2777	A2703	A2626	U2543		C2406	C2338	A2257		A2107
U3119	U3041	C2952	G2871	G2778	A2704		U2544		C2407	C2339	U2258	G2187	C2108
C3120	U3042	A2872	A2873	A2779	A2705	C2630	C2545			U2340	A2259	U2188	
U3121	C3043	U2955	U2874	A2780	G2706		C2546		U2411		U2260	U2189	
A3122	G3044	A2956	U2875	U2783	C2707	U2633	A2547				G2261	U2190	G2111
	G3045	C2960	C2876		C2708	U2634	C2548			A2345	A2262	U2191	U2112
G3128	A3046	C2961		G2787	U2712	A2637	G2549			C2346	C2263	C2192	A2113
A3130	U3047	G2962	C2881	G2794	U2713	C2638	U2550			U2347	U2264	U2193	C2114
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G3134	G3052		C2889	U2718	A2643	A2642	A2557			A2352	C2278	C2202	G2123
U3135	G3053	A2976	A2890	U2719	C2644	C2644	A2557			C2353	A2279	C2203	G2124
G3136	U3054	G2977	A2891	U2720			C2560			A2354	A2280	C2204	A2125
	U3055	U2978	A2892	U2721		G2648	A2561			U2355	A2281	U2205	
A3139	U3056	U2979	A2893	U2722						A2356	U2282	G2206	C2128
G3140	U3057		A2894	U2723						A2357	U2283	A2207	
A3141	C3058	A2982	U2898	U2724		G2651	C2568			A2358	U2284	A2208	A2131
G3142	G3059	C2989	C2899	U2725		U2652	A2569			C2359	C2285	U2209	
C3143	C3060	C2990	C2899	U2726		C2653	U2570			C2360	C2286	G2210	U2137
G3144	G3061	A2902	A2903	G2728		A2656	U2571			A2361	U2287	U2211	A2138
C3145		U2986	U2904	U2729		A2657	C2572			C2362	G2288	A2215	A2139
G3146		A2987	U2905	G2814		G2658	G2573			A2363		G2216	U2140
	U3067	C2988	C2906	U2731		G2659	U2578			C2364	U2292	U2141	U2142
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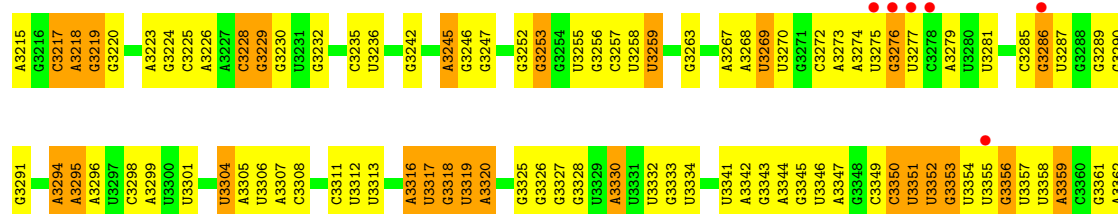


● Molecule 1: 25S ribosomal RNA

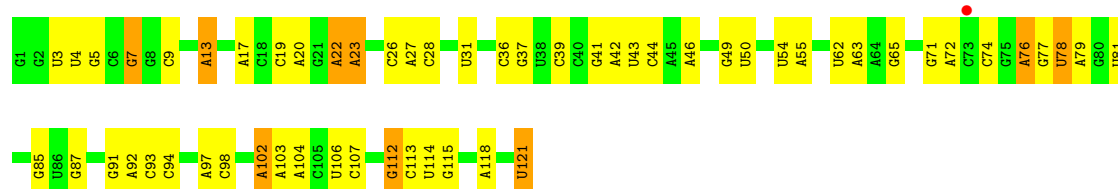


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G	U1880	A1804	U1721	U1629	U1554	A1456	G1381	G1294	A1204	C1032	C951	C961	U880	U790
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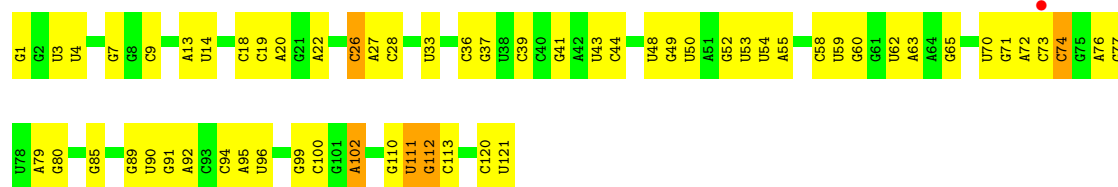
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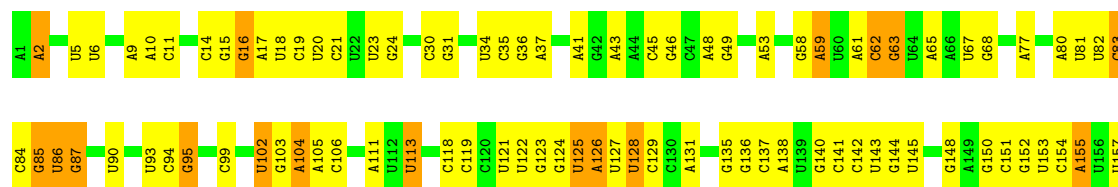
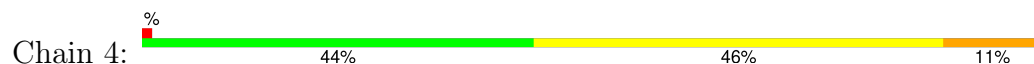
• Molecule 2: 5S ribosomal RNA



• Molecule 2: 5S ribosomal RNA

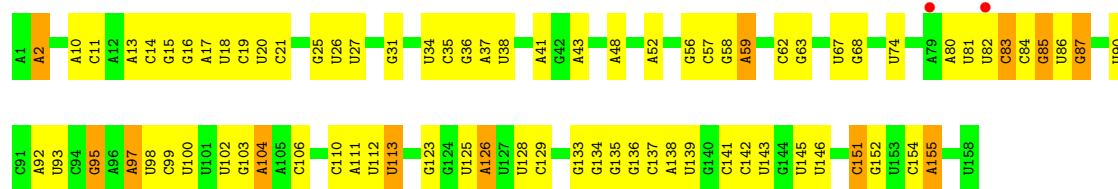


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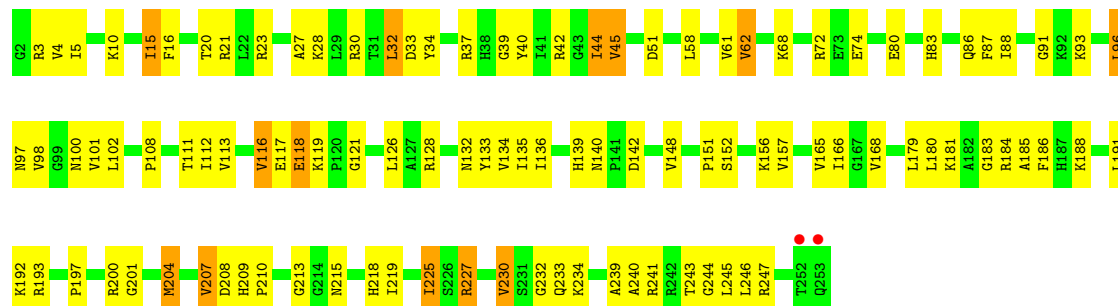


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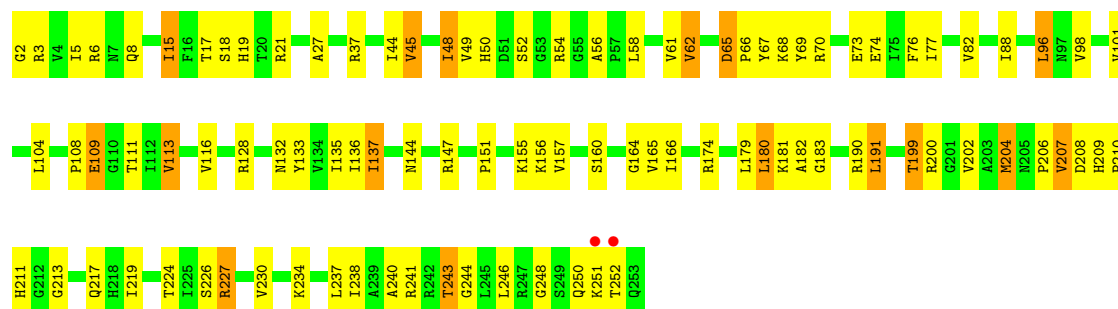




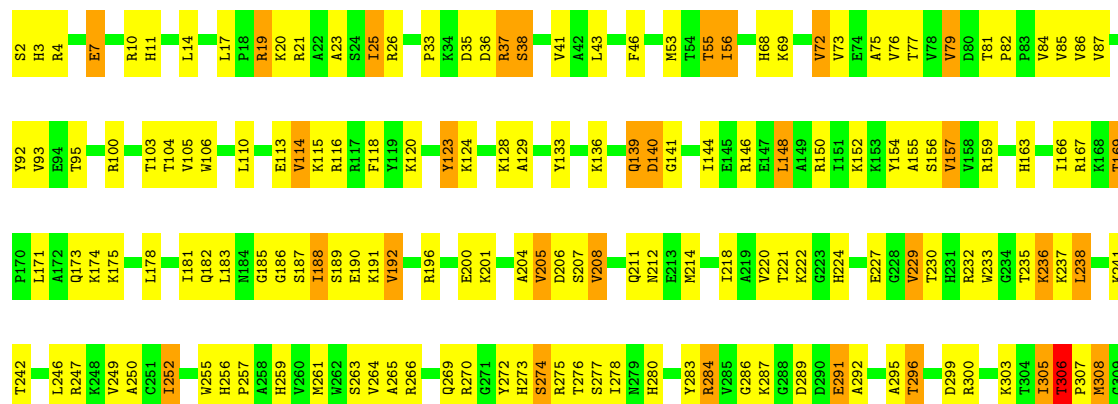
• Molecule 4: 60S ribosomal protein L2-A



• Molecule 4: 60S ribosomal protein L2-A

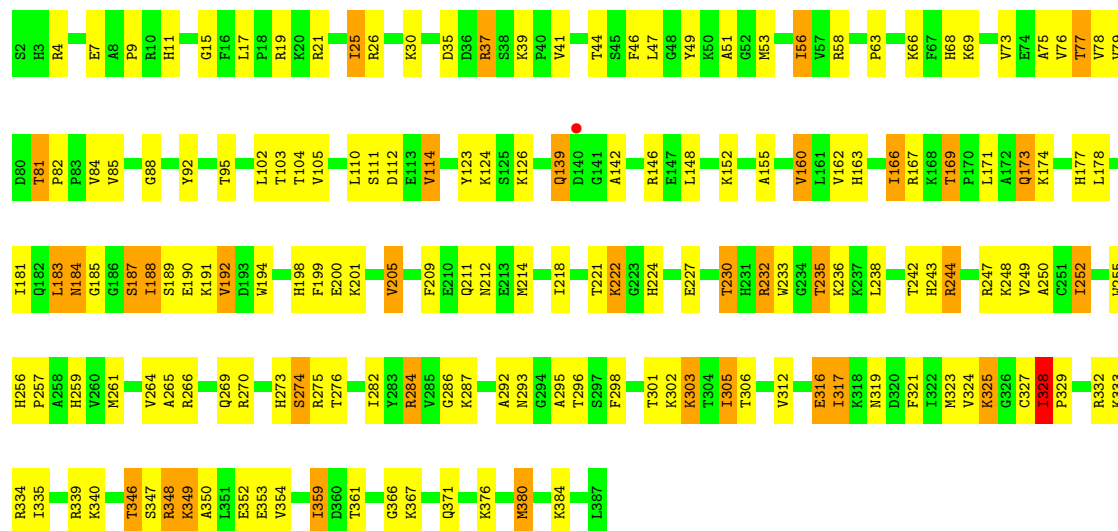


• Molecule 5: 60S ribosomal protein L3

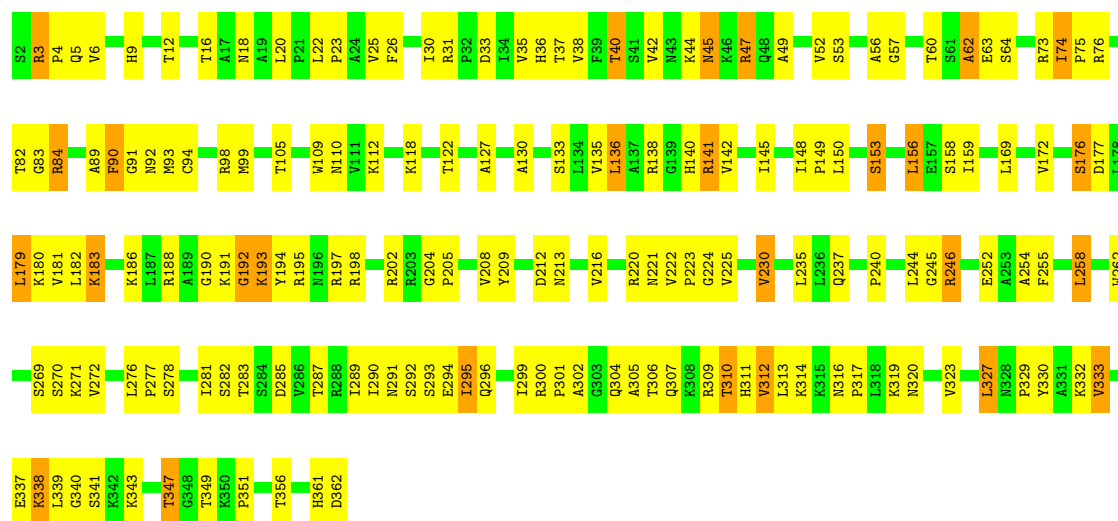




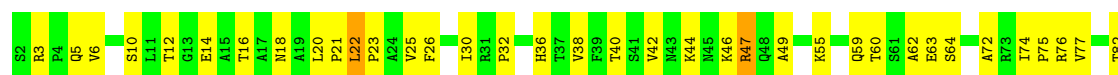
• Molecule 5: 60S ribosomal protein L3

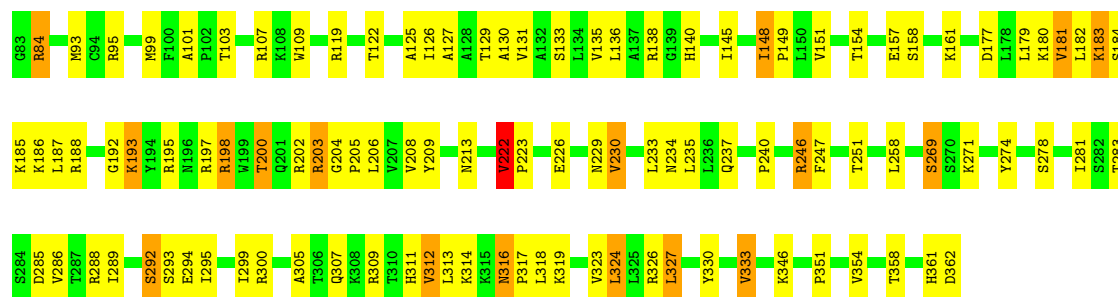


• Molecule 6: 60S ribosomal protein L4-A

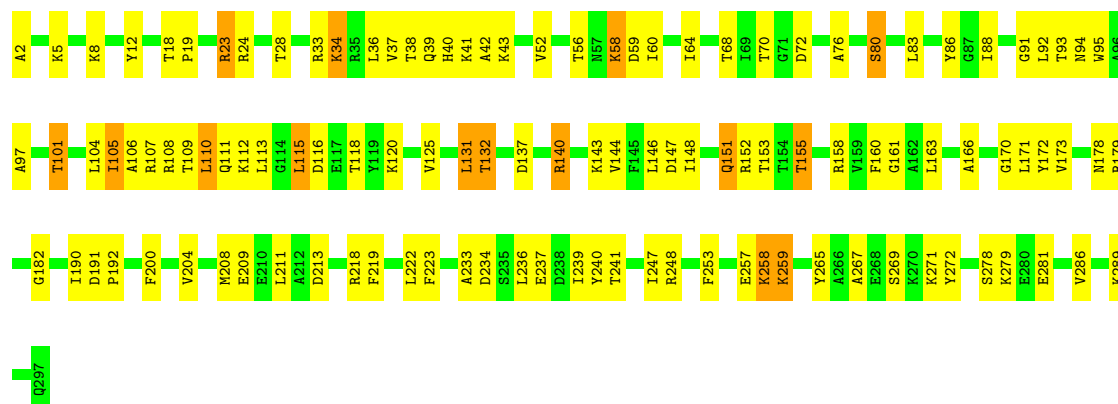


• Molecule 6: 60S ribosomal protein L4-A

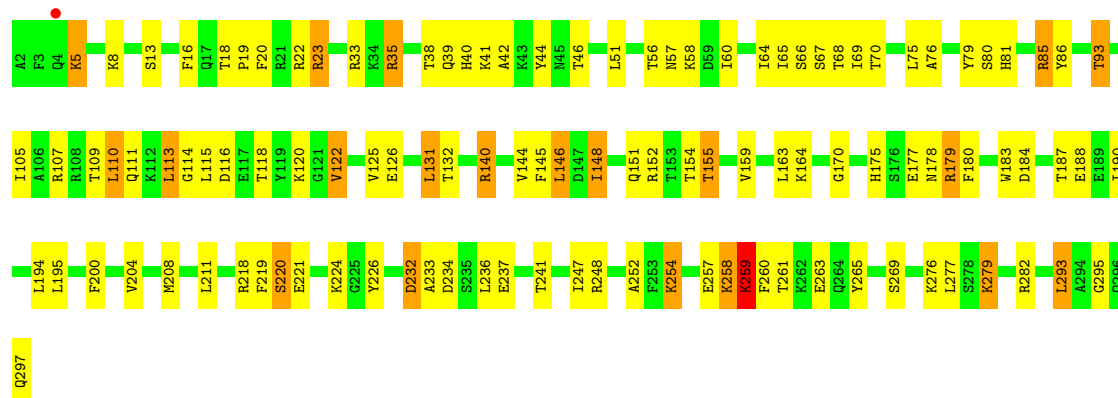




• Molecule 7: 60S ribosomal protein L5



• Molecule 7: 60S ribosomal protein L5



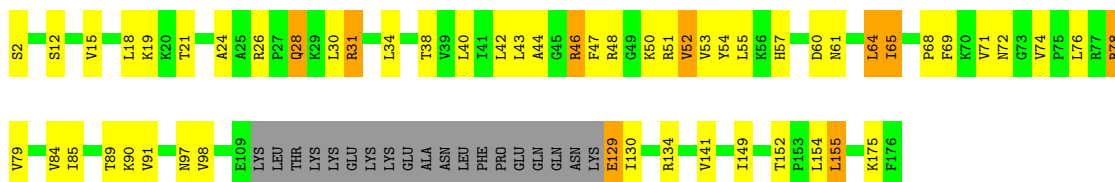
• Molecule 8: 60S ribosomal protein L6-A





• Molecule 8: 60S ribosomal protein L6-A

Chain CH: 58% 26% 5% 11%



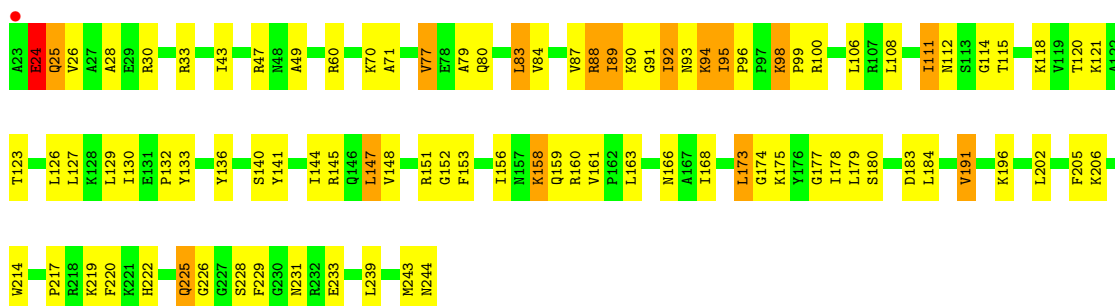
• Molecule 9: 60S ribosomal protein L7-A

Chain o: 58% 38% 4%



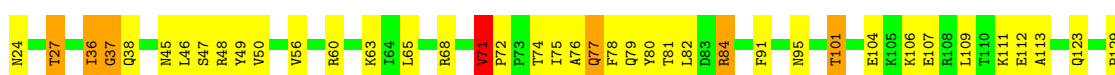
• Molecule 9: 60S ribosomal protein L7-A

Chain CI: 59% 34% 7%



• Molecule 10: 60S ribosomal protein L8-A

Chain p: 69% 27% 4%

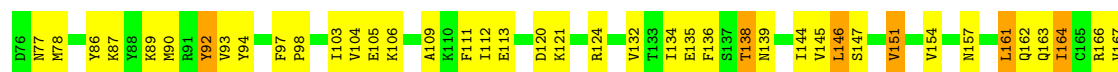
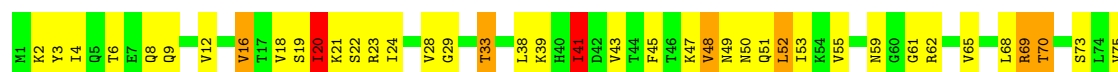




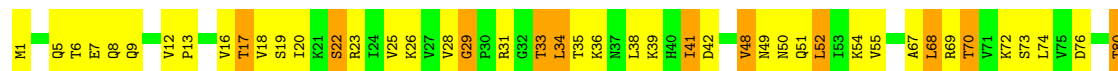
• Molecule 10: 60S ribosomal protein L8-A



• Molecule 11: 60S ribosomal protein L9-A

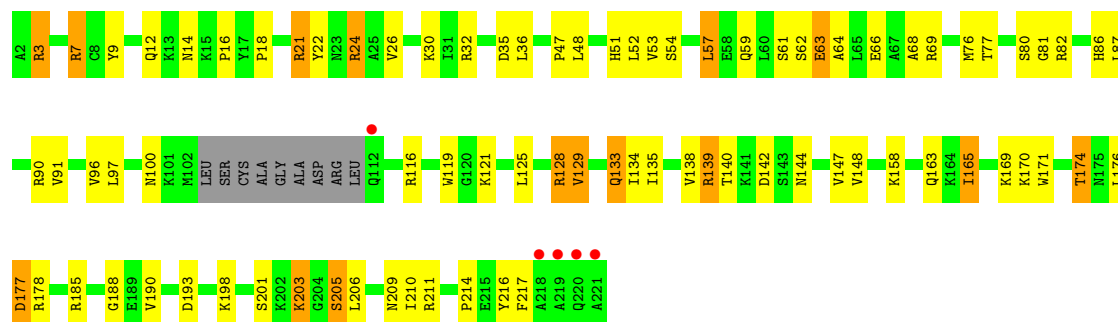


• Molecule 11: 60S ribosomal protein L9-A

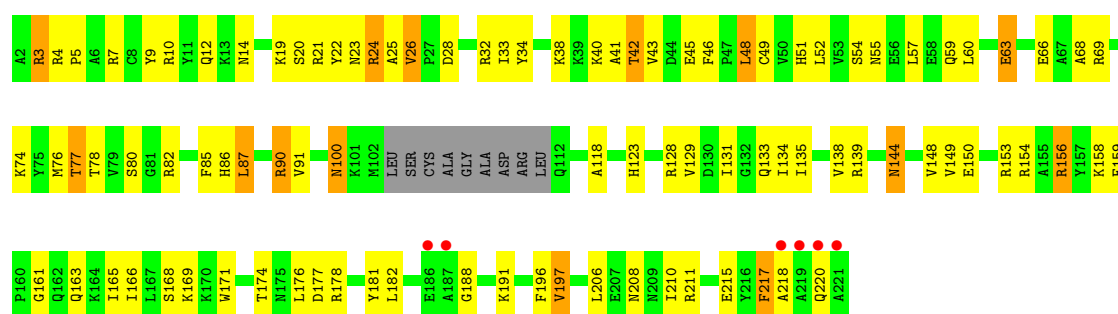


• Molecule 12: 60S ribosomal protein L10

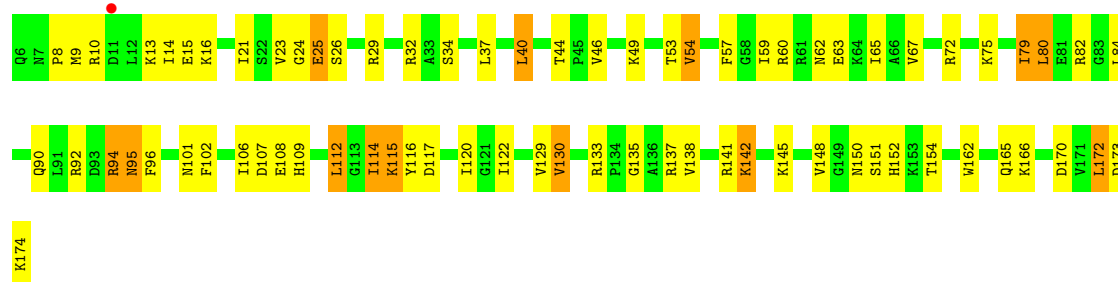




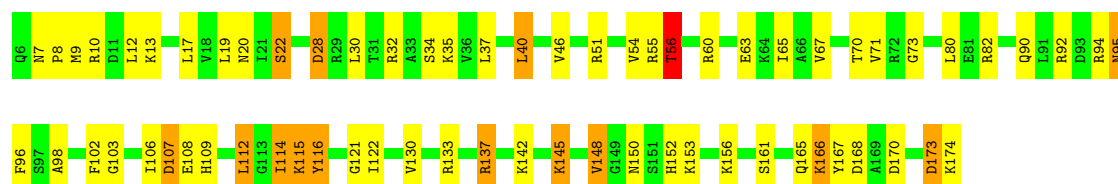
• Molecule 12: 60S ribosomal protein L10



• Molecule 13: 60S ribosomal protein L11-B

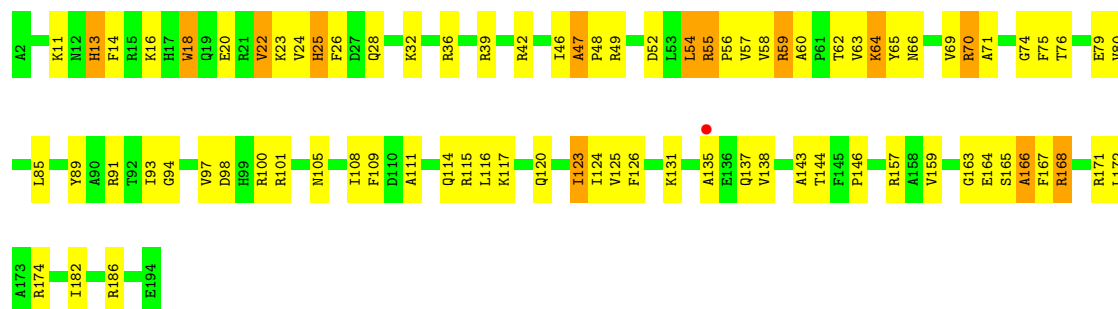


• Molecule 13: 60S ribosomal protein L11-B



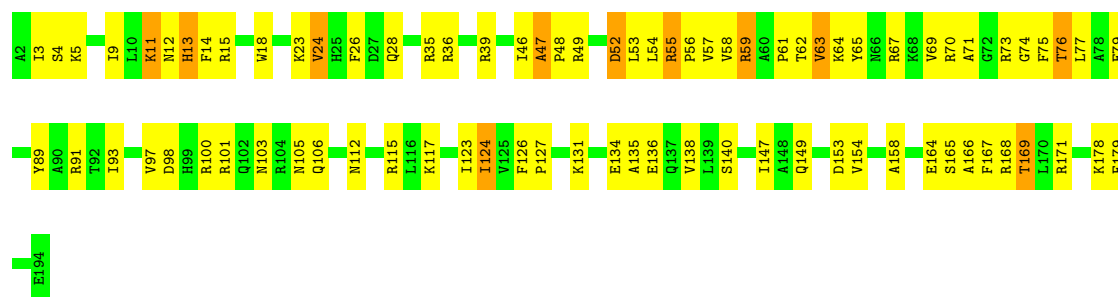
• Molecule 14: 60S ribosomal protein L13-A





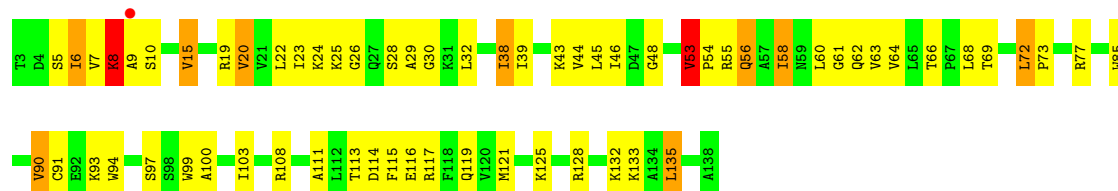
- Molecule 14: 60S ribosomal protein L13-A

Chain CN: 58% 36% 6%



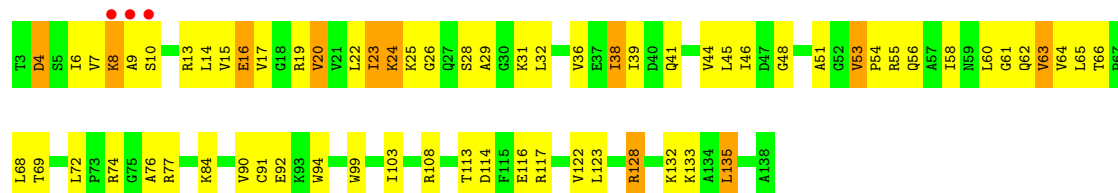
- Molecule 15: 60S ribosomal protein L14-A

Chain u: 53% 39% 7%



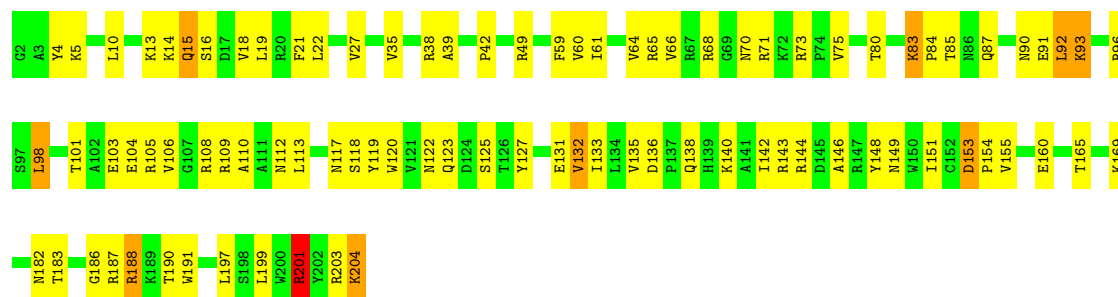
- Molecule 15: 60S ribosomal protein L14-A

Chain CO: 51% 41% 8%



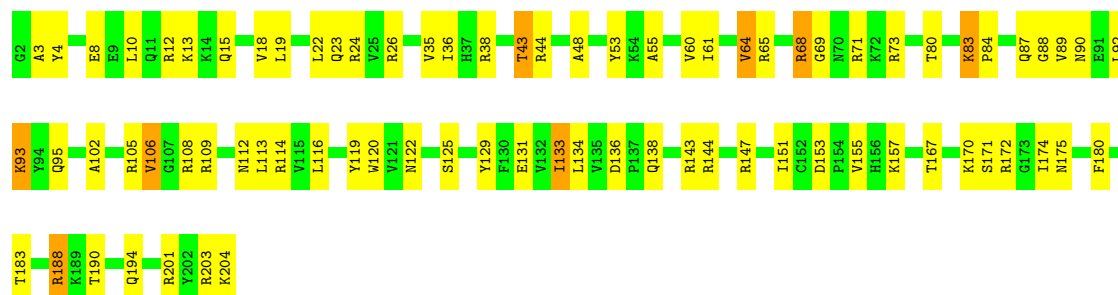
- Molecule 16: 60S ribosomal protein L15-A

Chain v: 56% 39% 5%



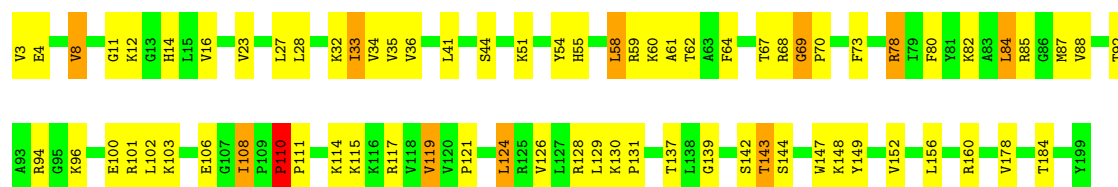
• Molecule 16: 60S ribosomal protein L15-A

Chain CP: 61% 35% •



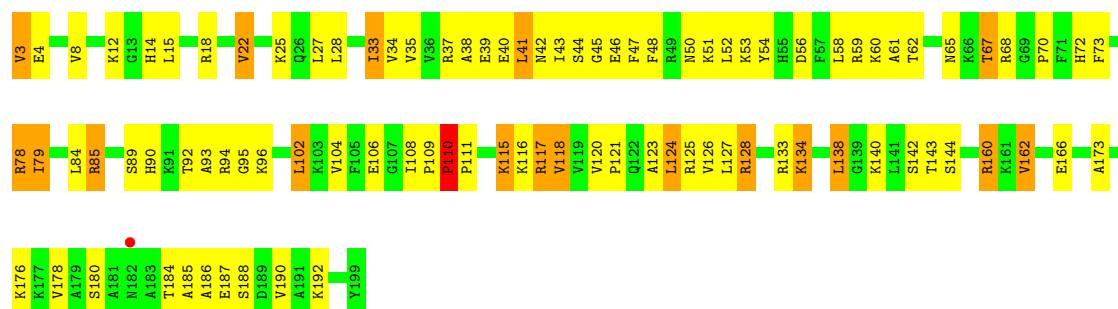
• Molecule 17: 60S ribosomal protein L16-A

Chain w: 63% 31% 5% •



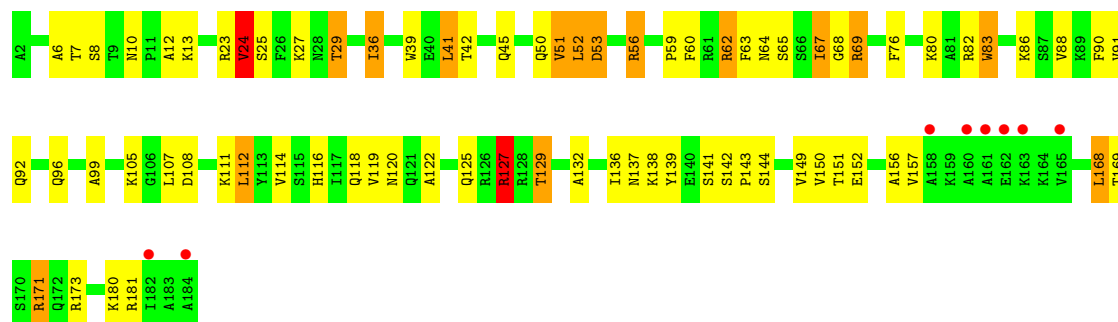
• Molecule 17: 60S ribosomal protein L16-A

Chain CQ: 52% 38% 9% •



• Molecule 18: 60S ribosomal protein L17-A

Chain x: 4% 58% 32% 8% •



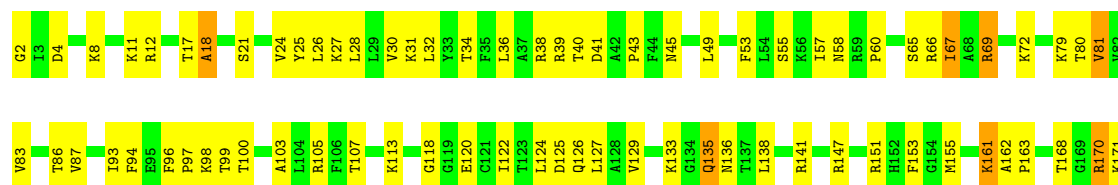
• Molecule 18: 60S ribosomal protein L17-A



• Molecule 19: 60S ribosomal protein L18-A

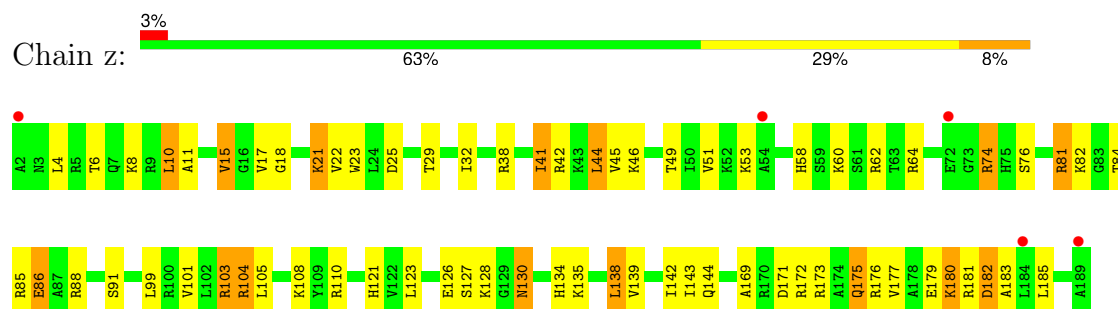


• Molecule 19: 60S ribosomal protein L18-A

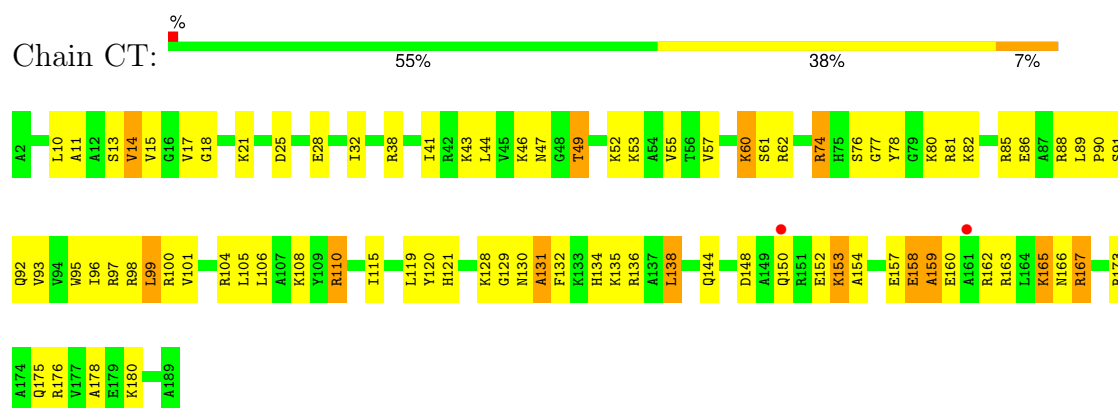




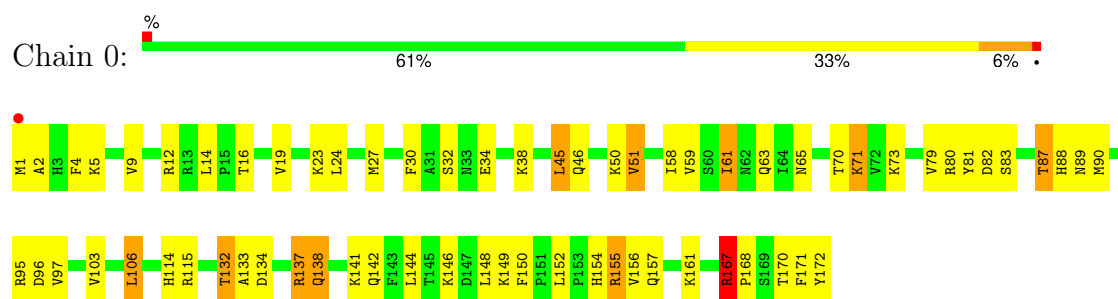
• Molecule 20: 60S ribosomal protein L19-A



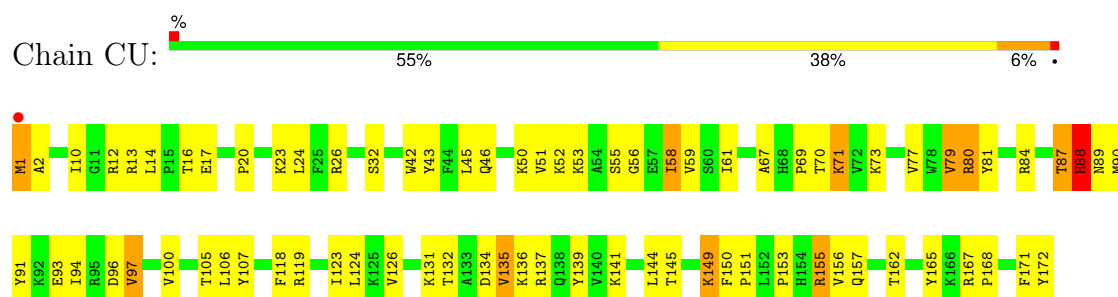
• Molecule 20: 60S ribosomal protein L19-A



• Molecule 21: 60S ribosomal protein L20-A

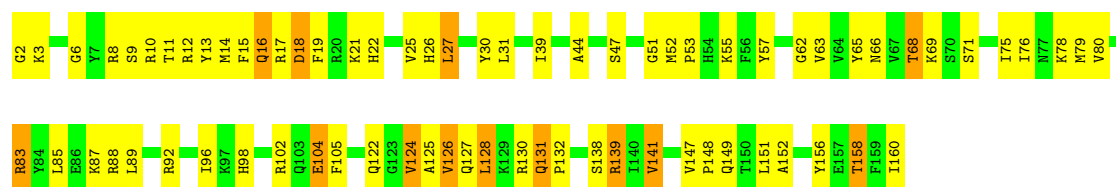


• Molecule 21: 60S ribosomal protein L20-A



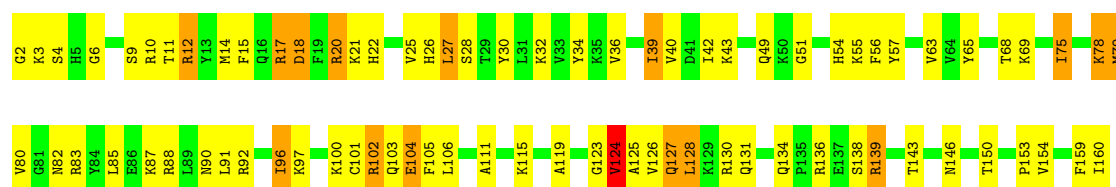
• Molecule 22: 60S ribosomal protein L21-A

Chain 2: 



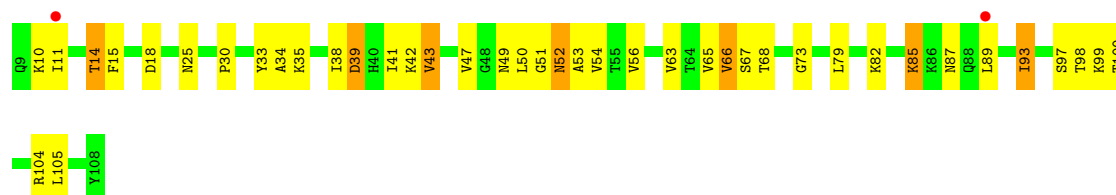
- Molecule 22: 60S ribosomal protein L21-A

Chain CV: 



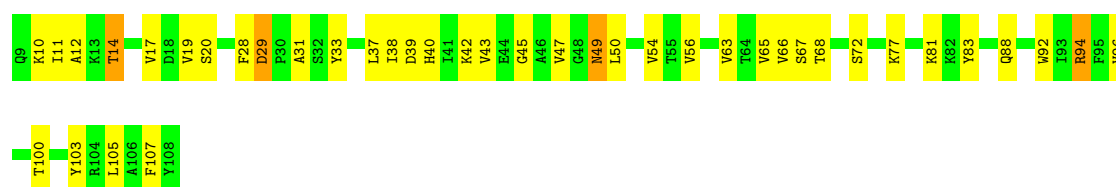
- Molecule 23: 60S ribosomal protein L22-A

Chain 5: 



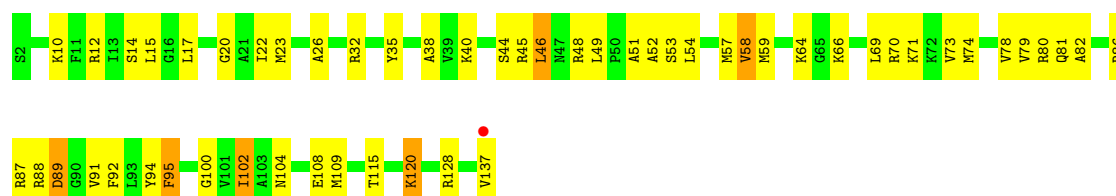
- Molecule 23: 60S ribosomal protein L22-A

Chain CW: 

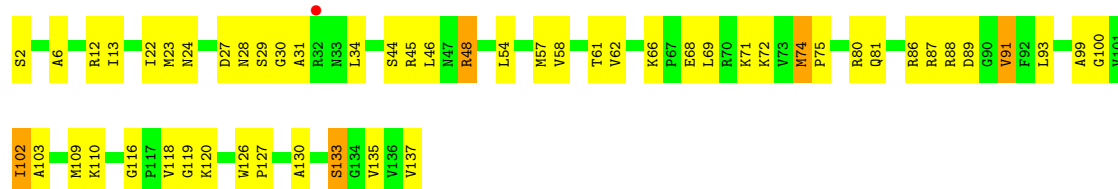


- Molecule 24: 60S ribosomal protein L23-A

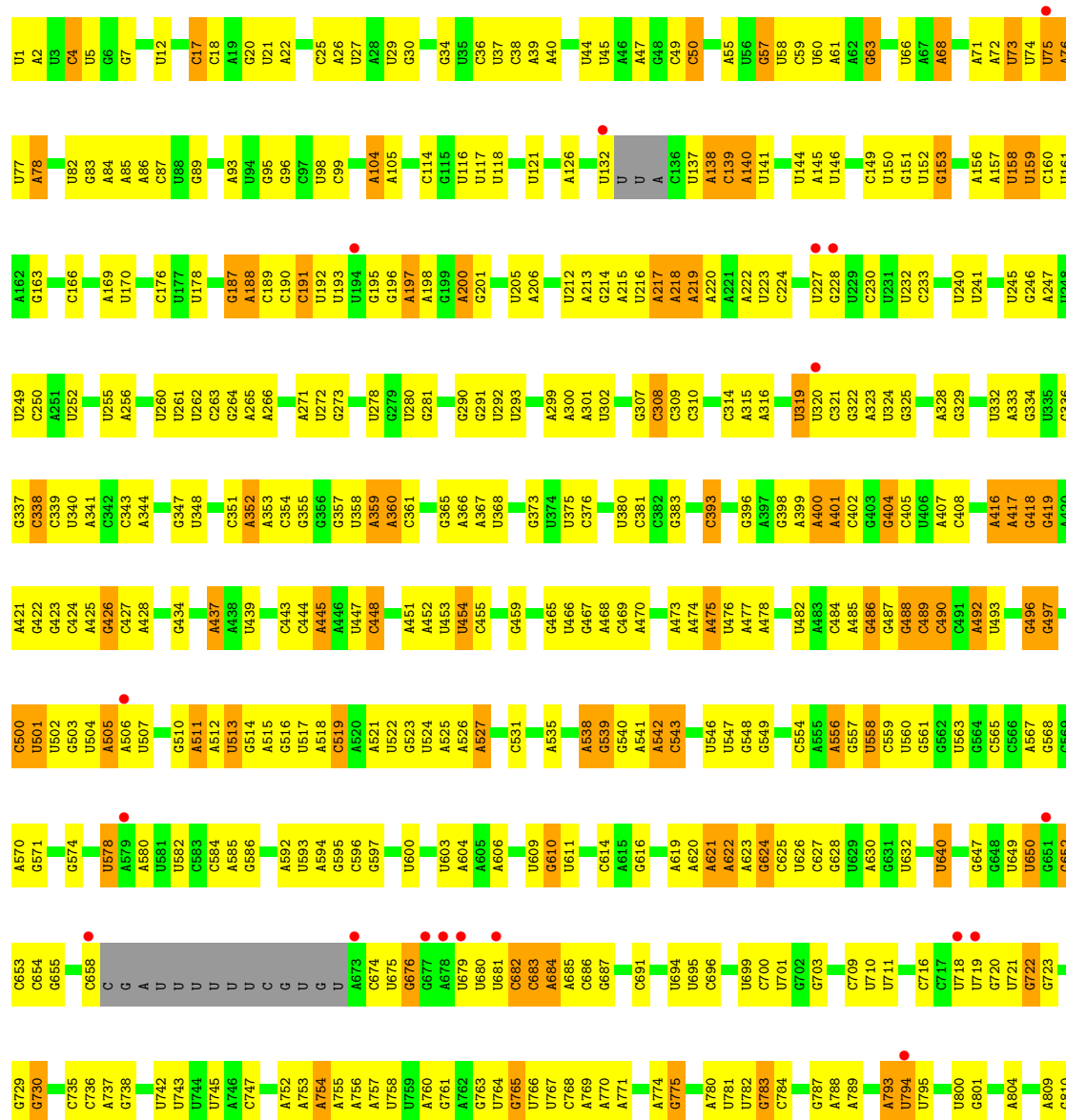
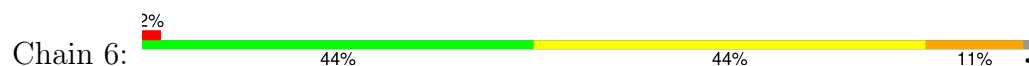
Chain I2: 



• Molecule 24: 60S ribosomal protein L23-A

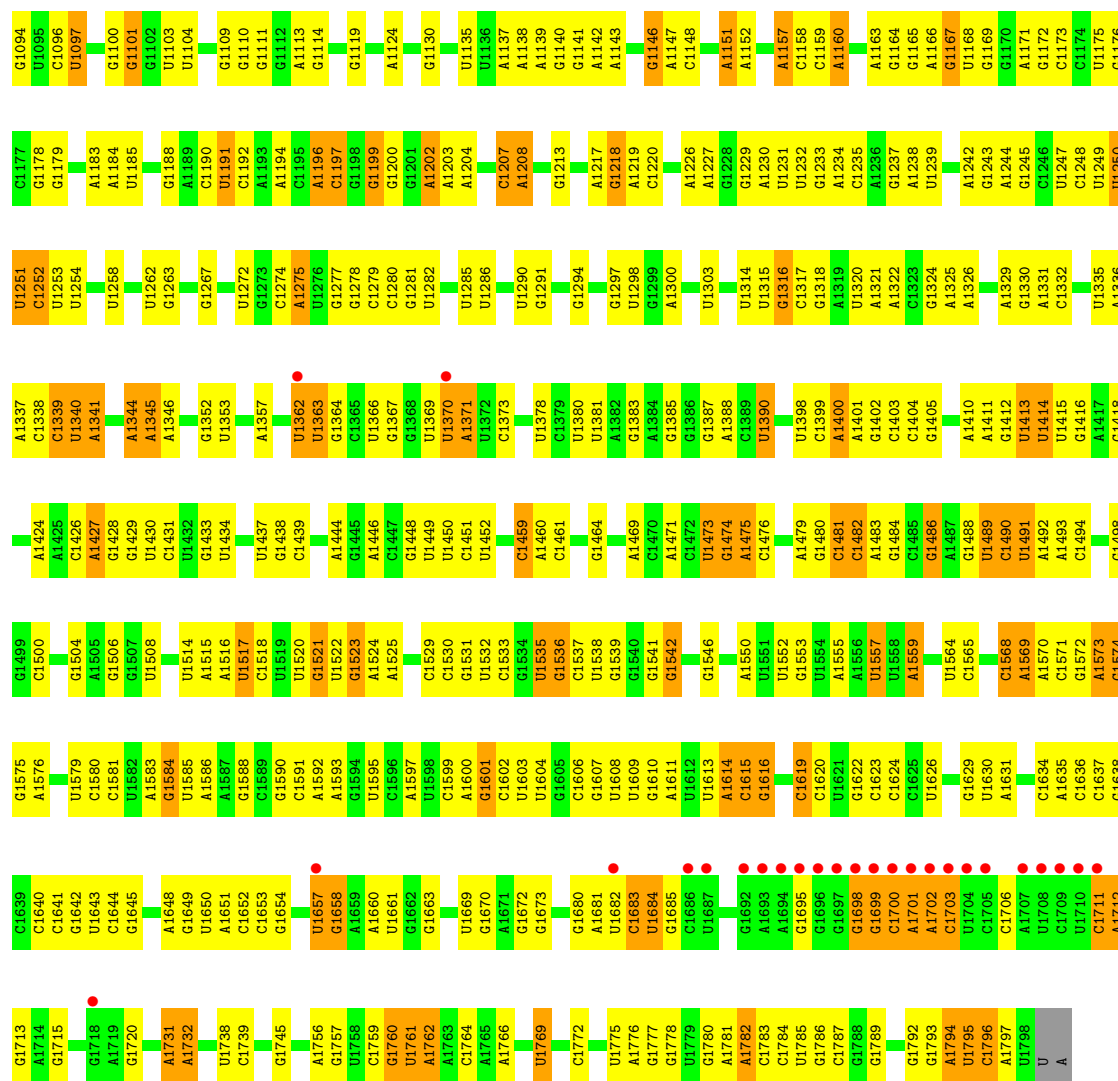


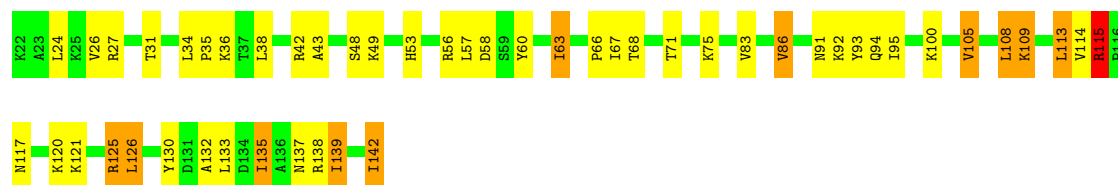
• Molecule 25: 18S ribosomal RNA





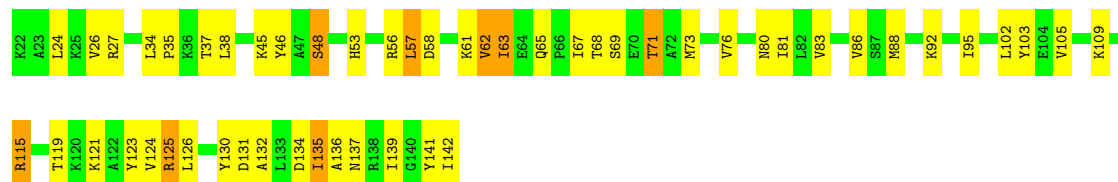






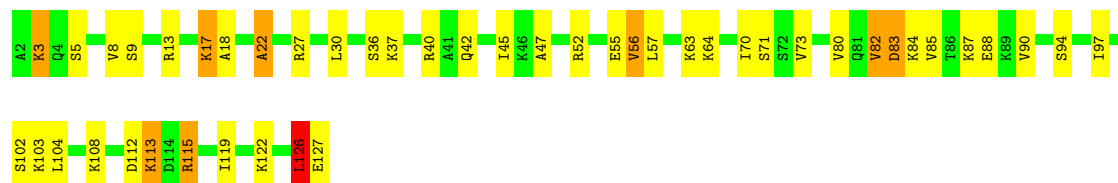
- Molecule 27: 60S ribosomal protein L25

Chain CZ: 57% 36% 7%



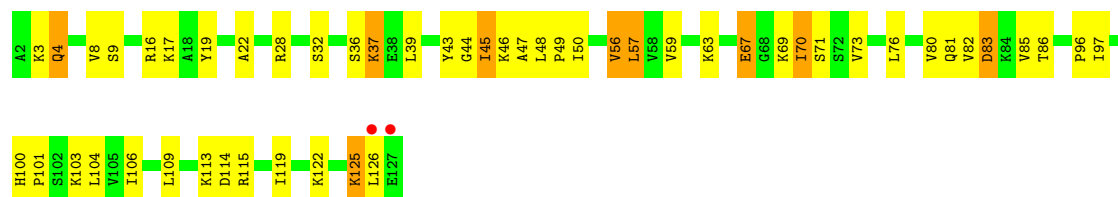
- Molecule 28: 60S ribosomal protein L26-A

Chain 9: 63% 29% 6%



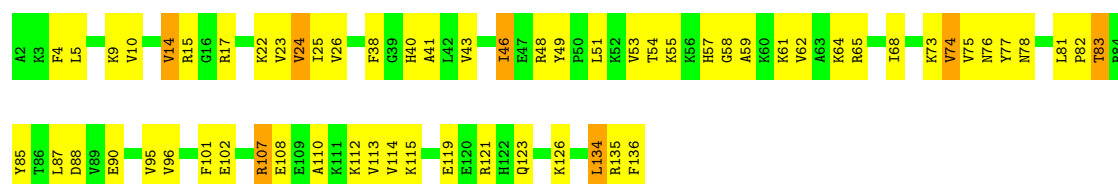
- Molecule 28: 60S ribosomal protein L26-A

Chain DA: 2% 59% 34% 7%

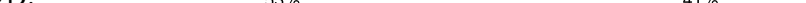


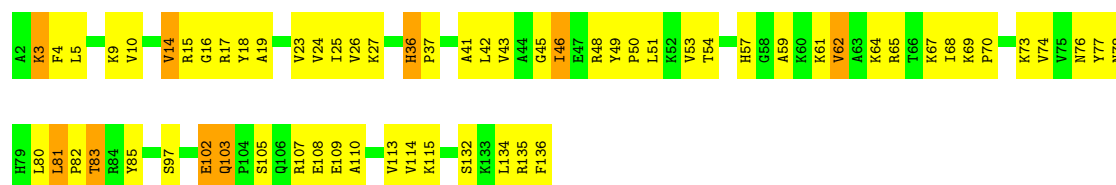
- Molecule 29: 60S ribosomal protein L27-A

Chain AA: 54% 41% 5%

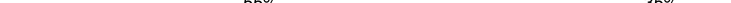


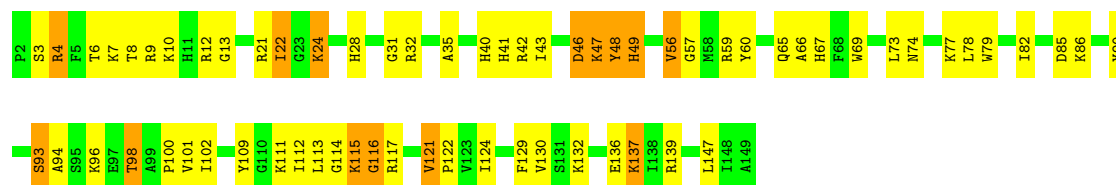
- Molecule 29: 60S ribosomal protein L27-A

Chain DB: 

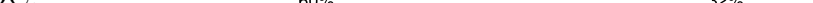


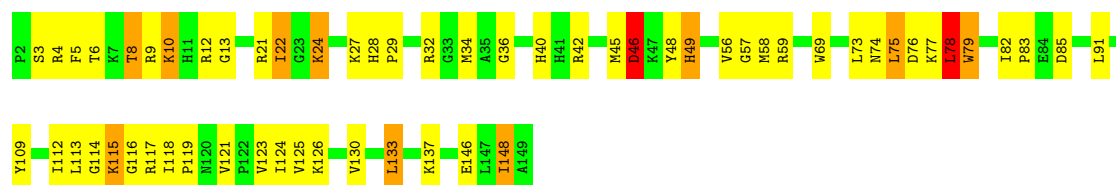
- Molecule 30: 60S ribosomal protein L28

Chain AB: 

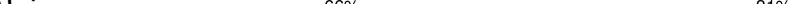


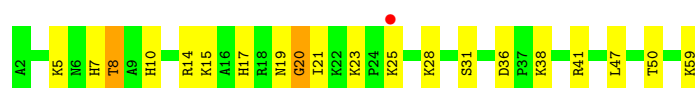
- Molecule 30: 60S ribosomal protein L28

Chain DC:  60% 32% 7%



- Molecule 31: 60S ribosomal protein L29

Chain AC: 

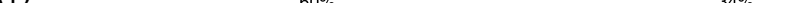


- Molecule 31: 60S ribosomal protein L29

Chain DD: 64% 29% .



- Molecule 32: 60S ribosomal protein L30

Chain AD: 



L104
A105

- Molecule 32: 60S ribosomal protein L30

Chain DE:  63% 33%

S9 I10 R11 Q12 Q13 L14 A15 V17 L16 I18 K19 S20 T24 T25 L25 G26 T30 L34 R35 K40 K41 L42 T42 T43 T44 T48 K53 Y59 E76 K83 L84 P85 R86 V87 Q88 V89 S90 S91 I92 D99 T100 L101 T102 T103 L104 A105

- Molecule 33: 60S ribosomal protein L31-A

Chain AE:  56% 40%

L4 K5 D6 V7 V8 E11 Y12 T13 L16 H17 K18 R19 L20 V23 S24 P25 K26 R28 A29 P30 R31 A32 E35 L42 H43 M44 G45 T46 L51 A52 P53 E54 L55 N56 Q57 A58 I59 R62 G63 V64 V67 E68 Y69 R72 L73 R74 R79 E83

K86 N87 P88 L89 F90 F92 V93 P94 V96 L97 V98 L104 T106 E110 E111 D112

- Molecule 33: 60S ribosomal protein L31-A

Chain DF:  63% 31% 6%

L4 V7 V8 T13 L16 H17 K18 L20 S24 F25 K26 A29 P30 R31 E35 T46 D47 P53 E54 L55 H56 Q57 R62 G63 V64 K65 G66 V67 E68 Y69 R70 L71 R72 L73 R74 I75 S76 R79 K86 N87 P88 L89 E94 P95 V96 G103

L104 Q105 T106 V107 V108 V109 D112

- Molecule 34: 60S ribosomal protein L32

Chain AF:  69% 29%

A2 S3 L4 P5 R19 H20 H21 S22 D23 R24 Y25 H26 R27 V28 R33 K34 Q35 S40 R44 R47 I50 S51 K54 K61 K64 P65 L66 S67 T73 F74 L75 N78 V79 L82 H88 A97 T100 S101 A102 K103 N104 R105 V106 L109

A110 R111 L115 R125 L128

- Molecule 34: 60S ribosomal protein L32

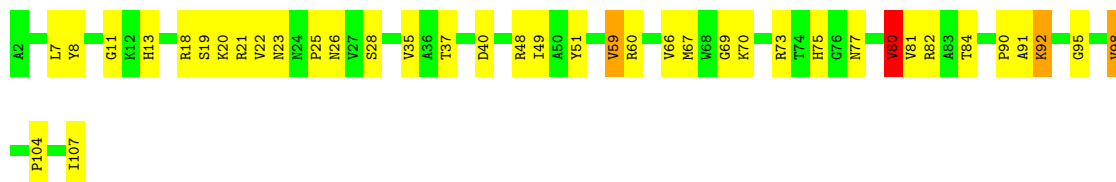
Chain DG:  55% 41%

A2 S3 L4 F7 K8 T9 V10 K18 R19 H20 H21 S22 D23 R24 Y25 H26 R27 V28 A29 E30 N31 V32 R33 S40 V41 R44 R45 F46 R47 P53 K54 I55 G56 Y57 K61 K62 T63 S67 T73 F74 L75 V76 A77 R78 V79 K80 D81 L82 E83 T84 T86



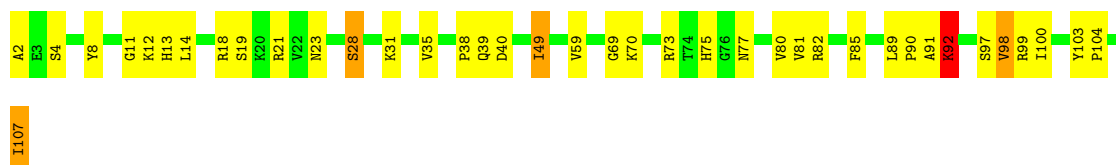
- Molecule 35: 60S ribosomal protein L33-A

Chain AG: 63% 33% ..



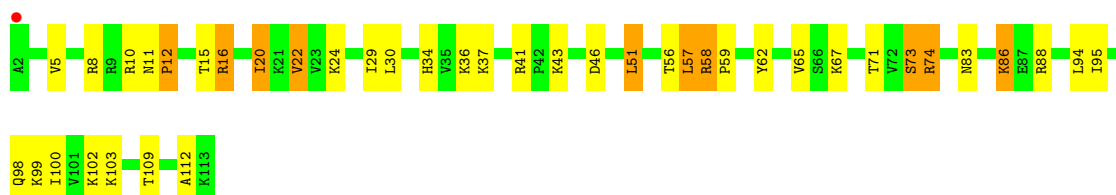
- Molecule 35: 60S ribosomal protein L33-A

Chain DH: 63% 32% ..



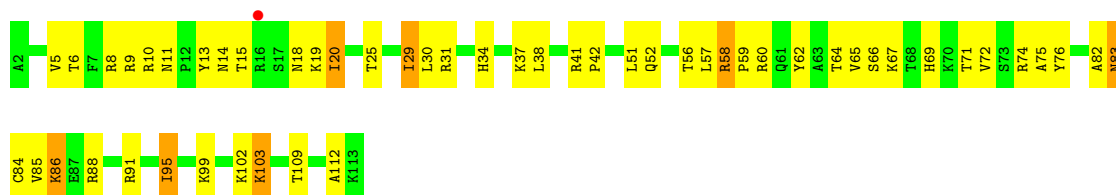
- Molecule 36: 60S ribosomal protein L34-A

Chain AH: % 63% 28% 9%



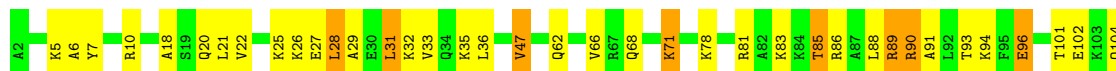
- Molecule 36: 60S ribosomal protein L34-A

Chain DI: % 54% 40% 6%



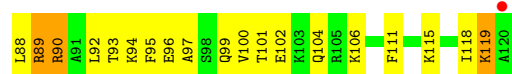
- Molecule 37: 60S ribosomal protein L35-A

Chain AI: % 59% 34% 7%

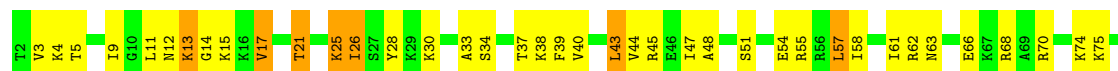




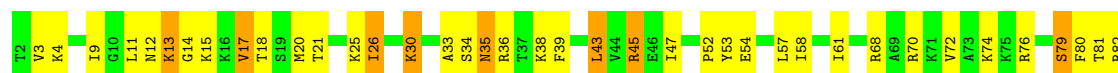
- Molecule 37: 60S ribosomal protein L35-A



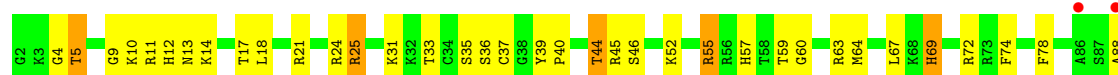
- Molecule 38: 60S ribosomal protein L36-A



- Molecule 38: 60S ribosomal protein L36-A



- Molecule 39: 60S ribosomal protein L37-A



- Molecule 39: 60S ribosomal protein L37-A





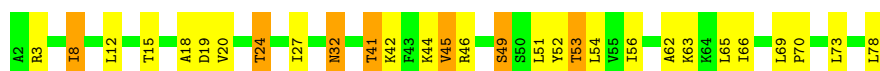
- Molecule 40: 60S ribosomal protein L38

Chain AL: 65% 27% 8%



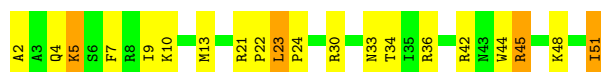
- Molecule 40: 60S ribosomal protein L38

Chain DM: 62% 29% 9%



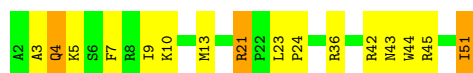
- Molecule 41: 60S ribosomal protein L39

Chain AM: 60% 32% 8%



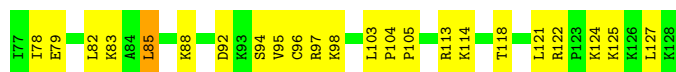
- Molecule 41: 60S ribosomal protein L39

Chain DN: 68% 26% 6%



- Molecule 42: Ubiquitin-60S ribosomal protein L40

Chain AN: 56% 42% 2%



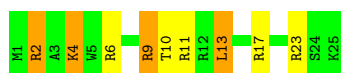
- Molecule 42: Ubiquitin-60S ribosomal protein L40

Chain DO: 2% 71% 25%

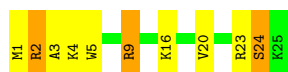


- Molecule 43: 60S ribosomal protein L41-B

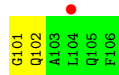
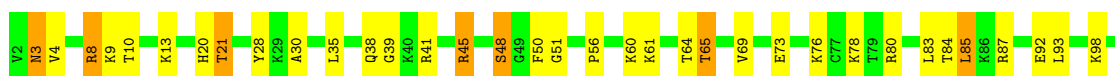
Chain AO: 64% 20% 16%



- Molecule 43: 60S ribosomal protein L41-B



- Molecule 44: 60S ribosomal protein L42-A



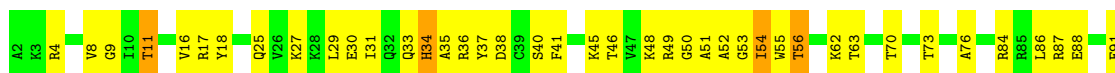
- Molecule 44: 60S ribosomal protein L42-A



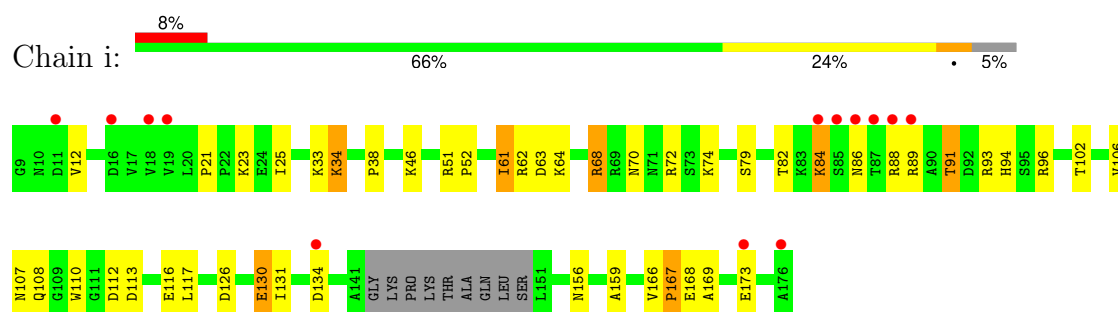
- Molecule 45: 60S ribosomal protein L43-A



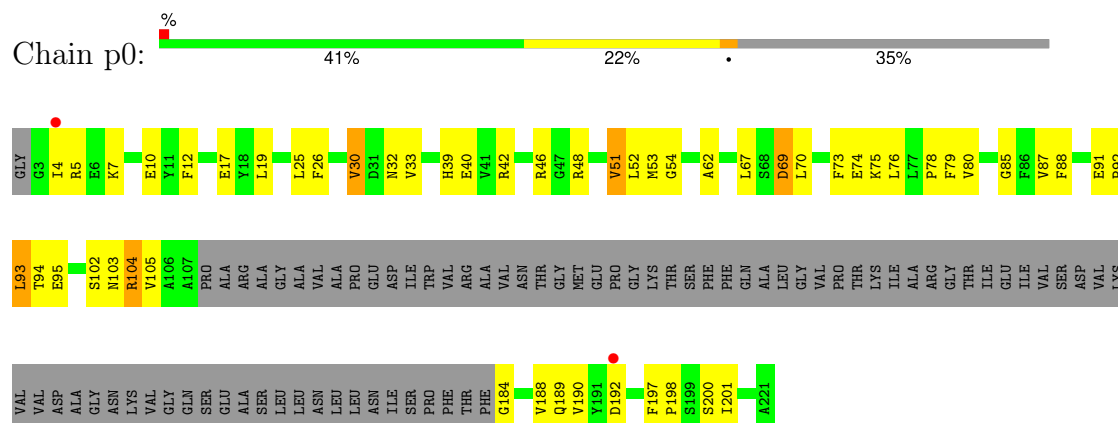
- Molecule 45: 60S ribosomal protein L43-A



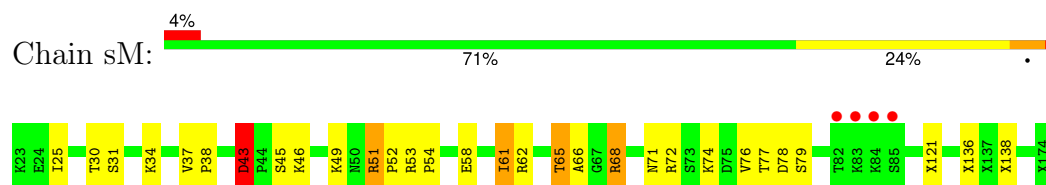
- Molecule 46: Suppressor protein STM1



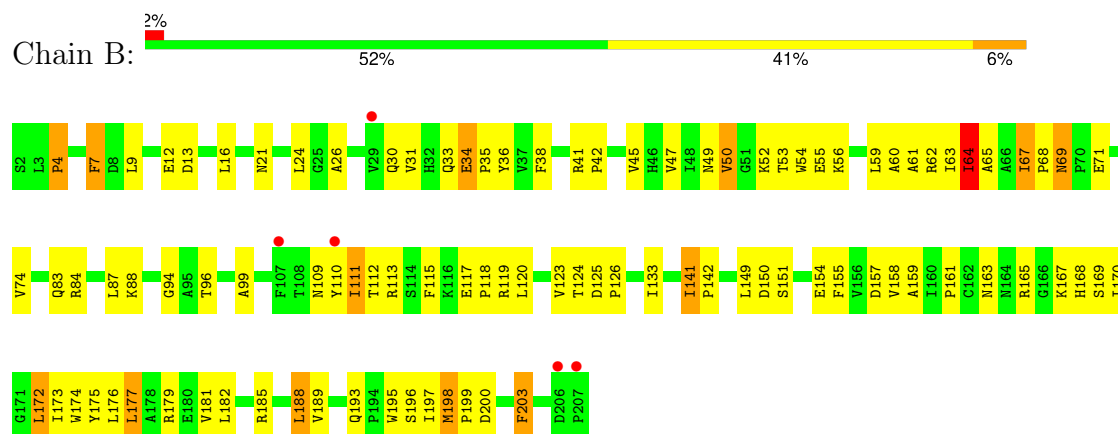
- Molecule 47: 60S acidic ribosomal protein P0



- Molecule 48: Suppressor protein STM1,Suppressor protein STM1,Suppressor protein Stm1 - Mol B

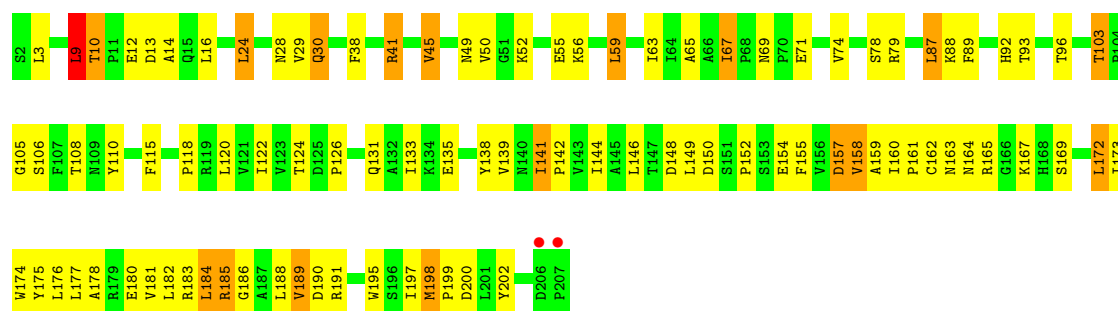


- Molecule 49: 40S ribosomal protein S0-A

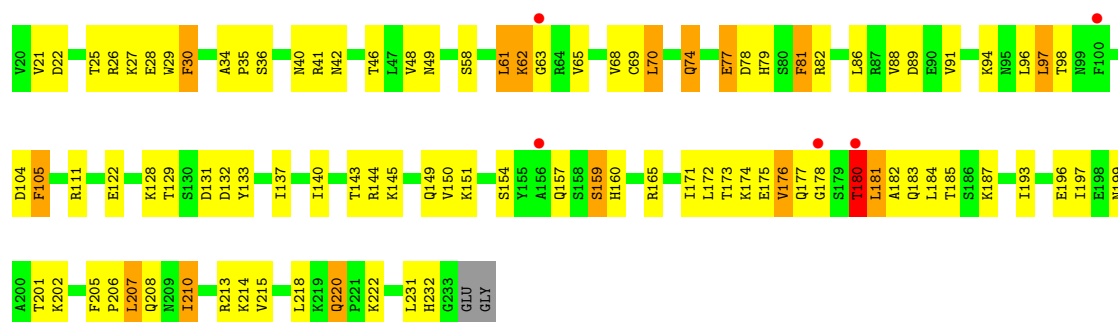


- Molecule 49: 40S ribosomal protein S0-A

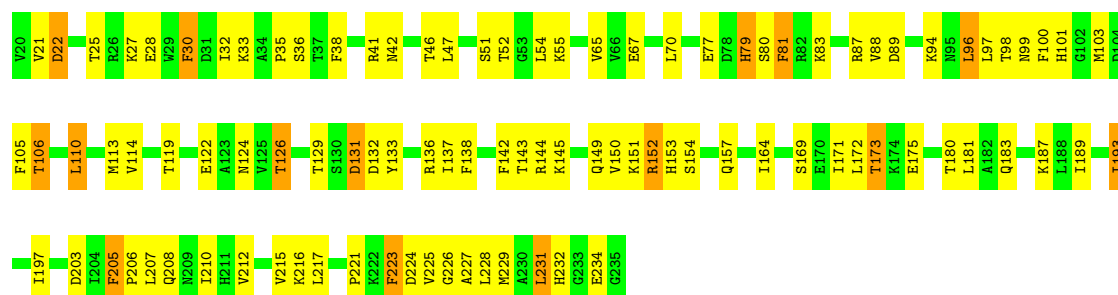




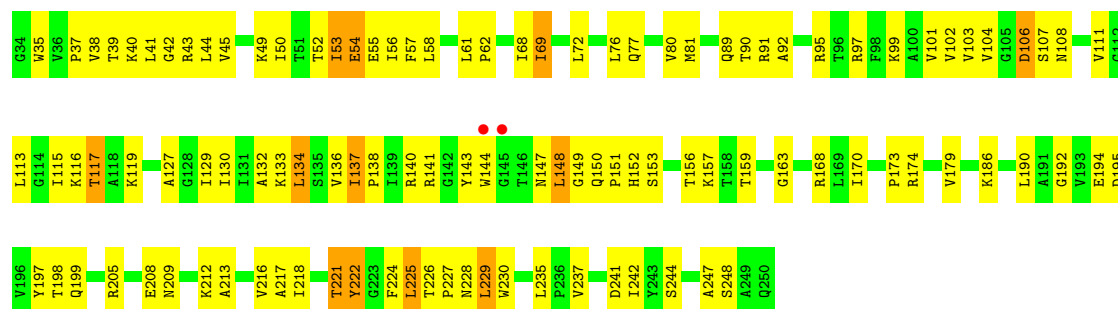
- Molecule 50: 40S ribosomal protein S1-A



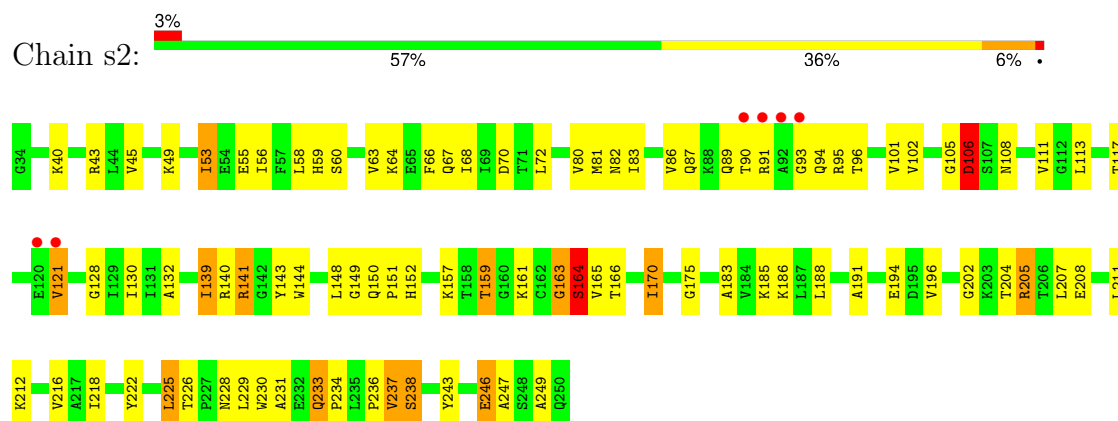
- Molecule 50: 40S ribosomal protein S1-A



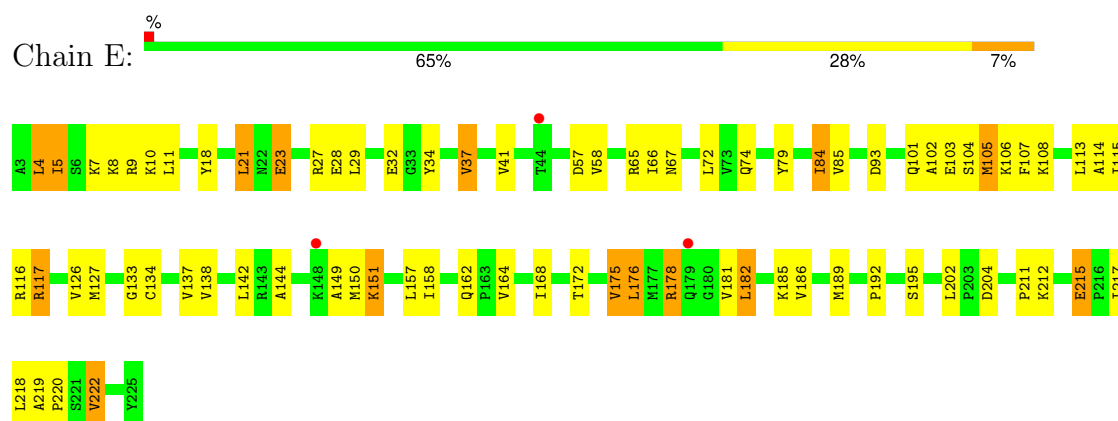
- Molecule 51: 40S ribosomal protein S2



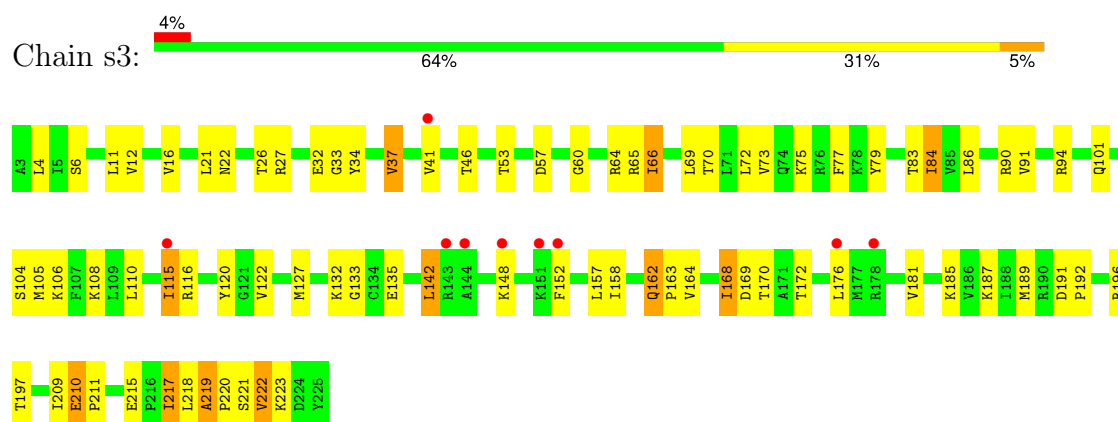
- Molecule 51: 40S ribosomal protein S2



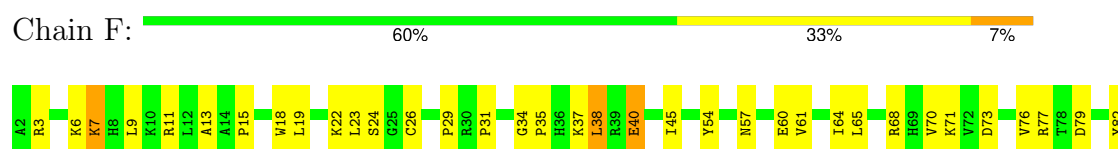
- Molecule 52: 40S ribosomal protein S3

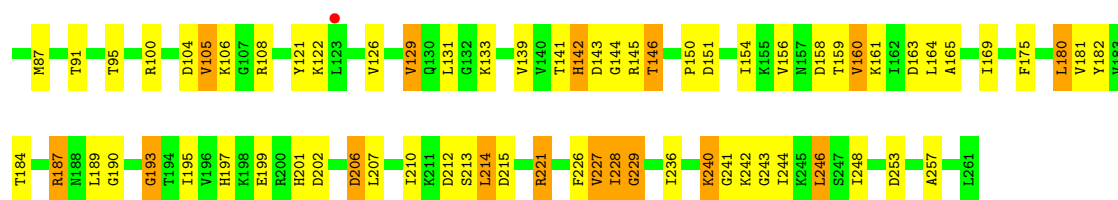


- Molecule 52: 40S ribosomal protein S3



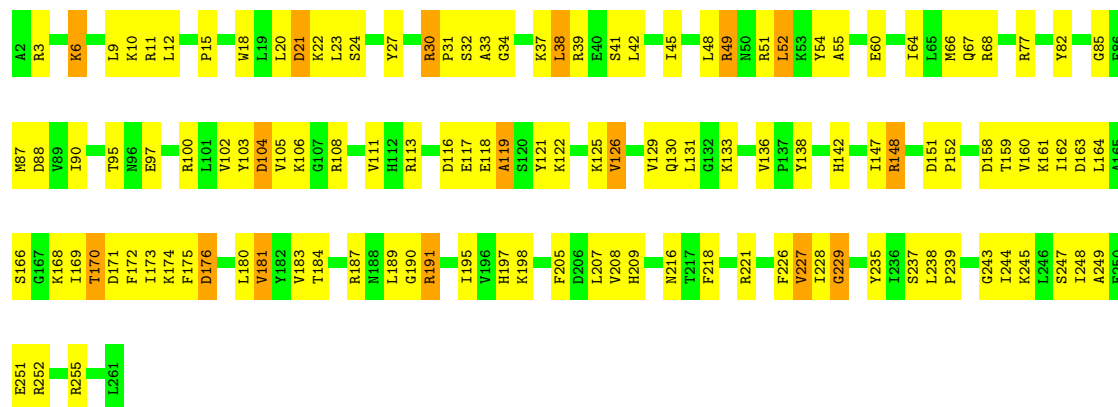
- Molecule 53: 40S ribosomal protein S4-A





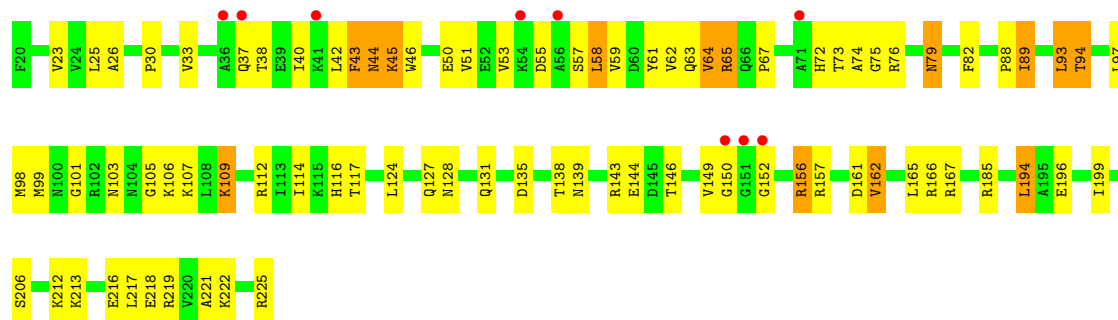
• Molecule 53: 40S ribosomal protein S4-A

Chain s4: 52% 42% 6%



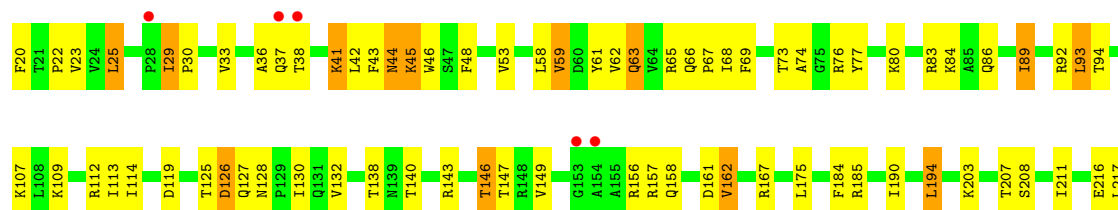
• Molecule 54: 40S ribosomal protein S5

Chain G: 4% 59% 34% 7%



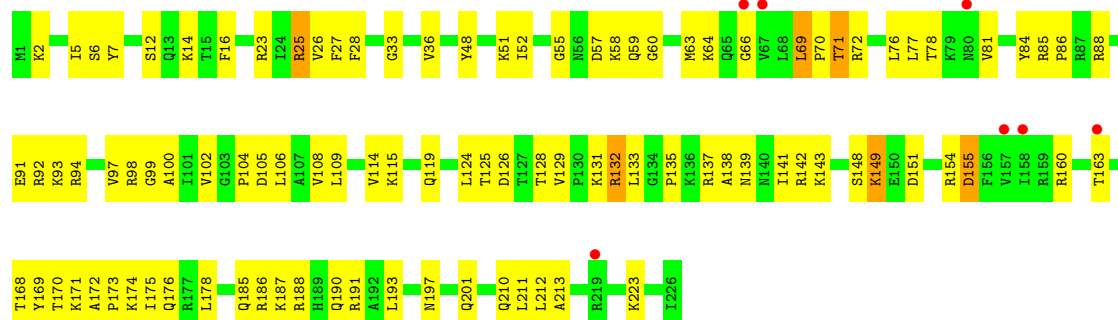
• Molecule 54: 40S ribosomal protein S5

Chain s5: 2% 62% 32% 6%

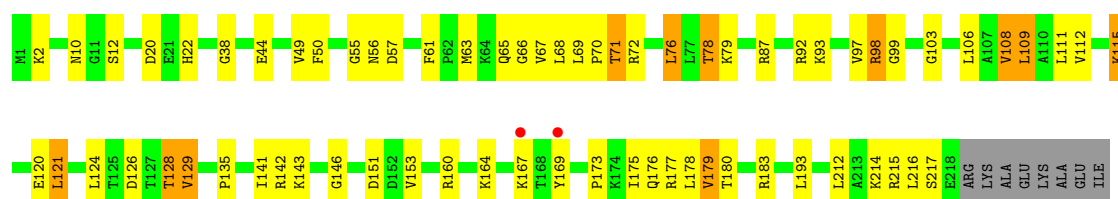




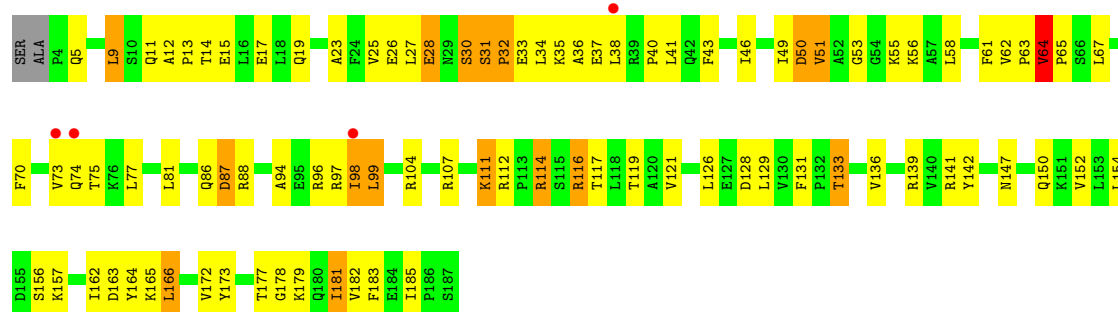
- Molecule 55: 40S ribosomal protein S6-A



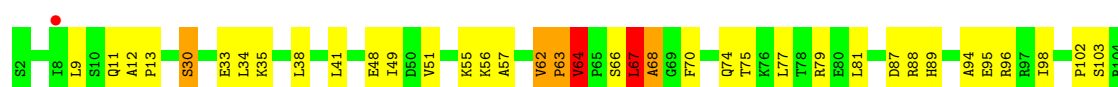
- Molecule 55: 40S ribosomal protein S6-A

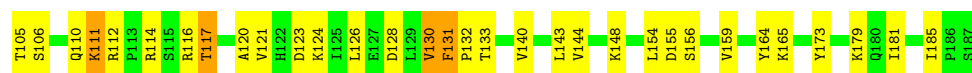


- Molecule 56: 40S ribosomal protein S7-A

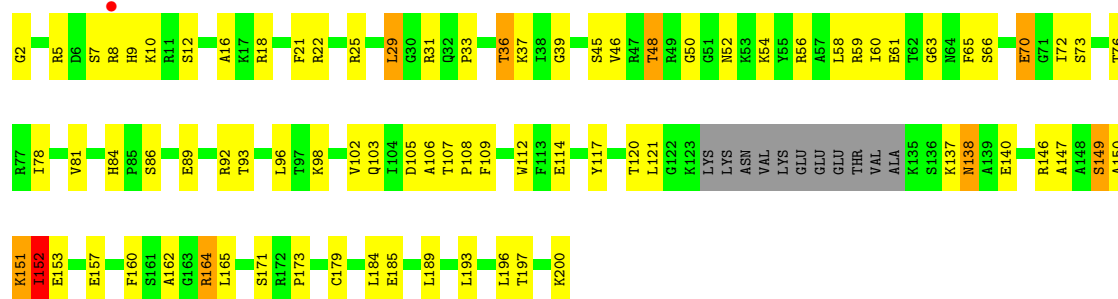


- Molecule 56: 40S ribosomal protein S7-A

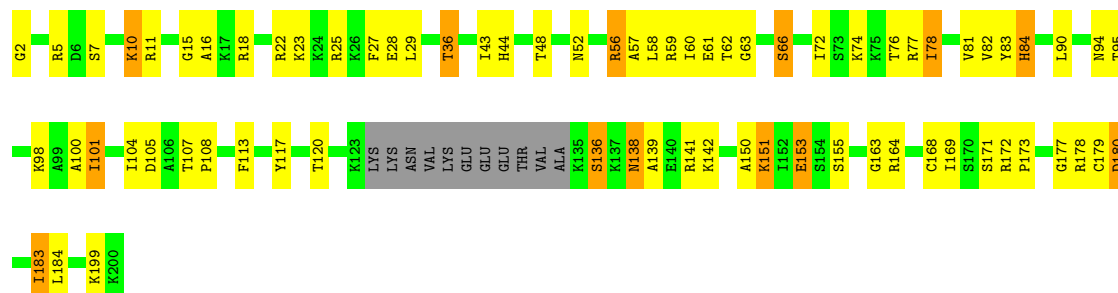




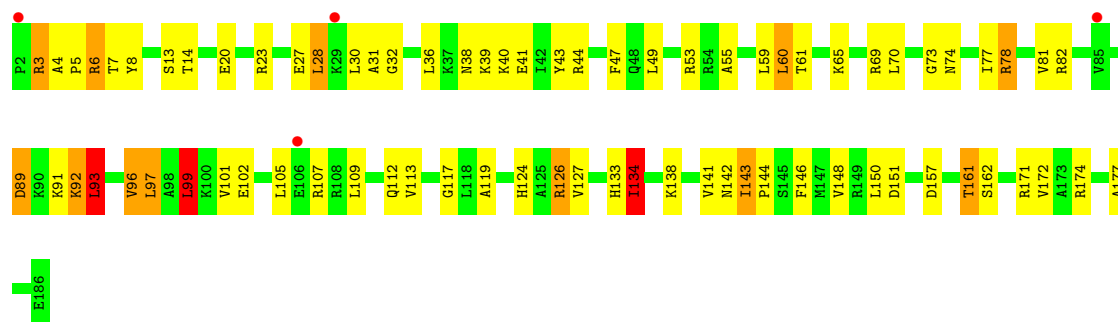
• Molecule 57: 40S ribosomal protein S8-A



• Molecule 57: 40S ribosomal protein S8-A

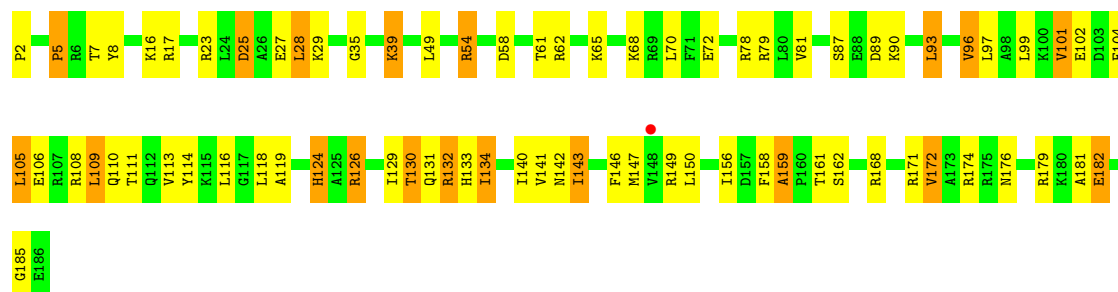


• Molecule 58: 40S ribosomal protein S9-A



• Molecule 58: 40S ribosomal protein S9-A





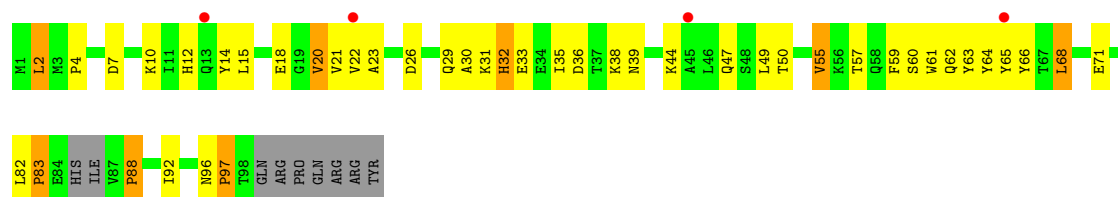
- Molecule 59: 40S ribosomal protein S10-A

Chain L: 54% 30% 8% 9%



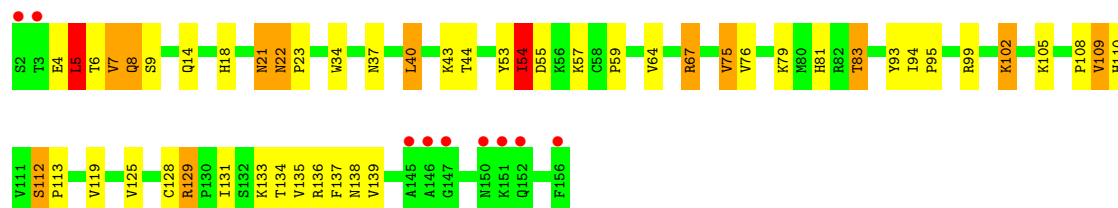
- Molecule 59: 40S ribosomal protein S10-A

Chain c0: 4% 50% 34% 8% 9%



- Molecule 60: 40S ribosomal protein S11-A

Chain M: 6% 67% 24% 8%



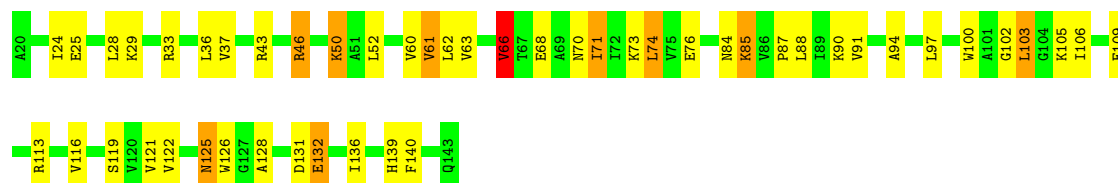
- Molecule 60: 40S ribosomal protein S11-A

Chain c1: 5% 59% 26% 8% 6%

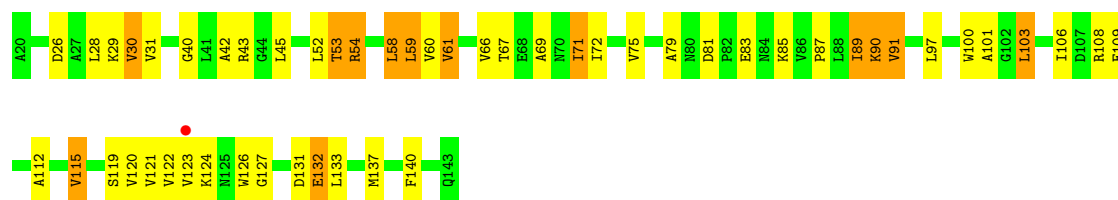




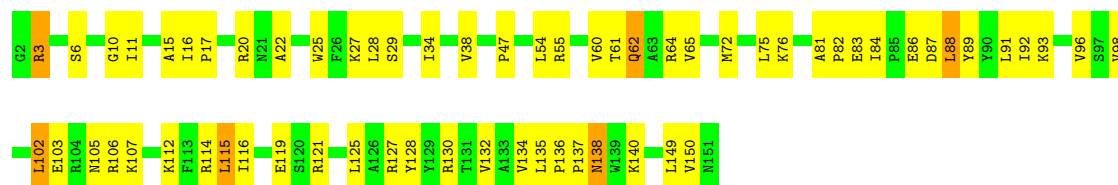
- Molecule 61: 40S ribosomal protein S12



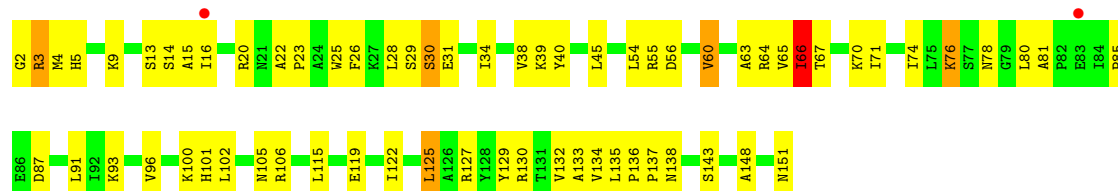
- Molecule 61: 40S ribosomal protein S12



- Molecule 62: 40S ribosomal protein S13

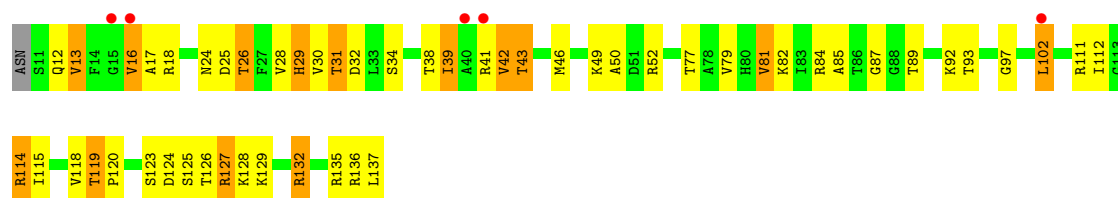


- Molecule 62: 40S ribosomal protein S13

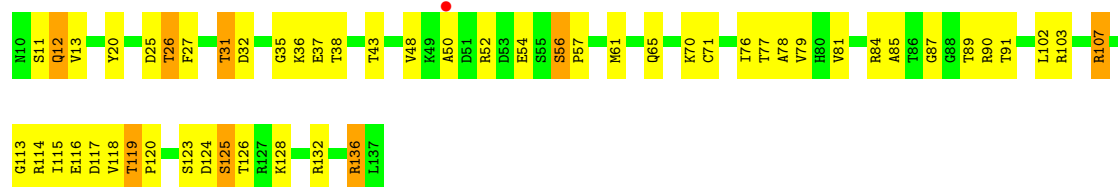


- Molecule 63: 40S ribosomal protein S14-B

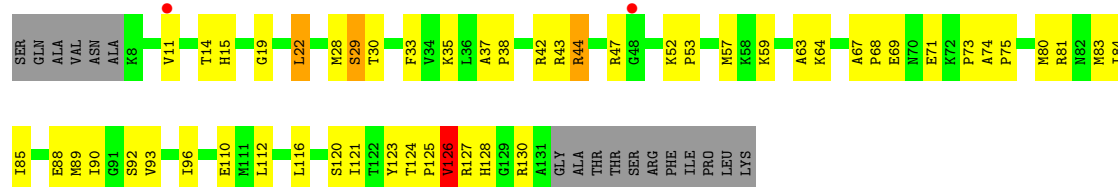




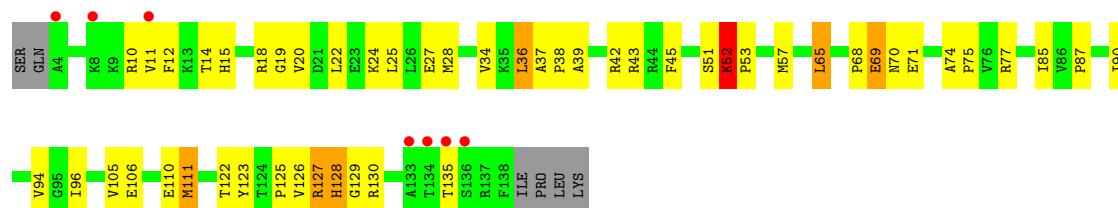
• Molecule 63: 40S ribosomal protein S14-B



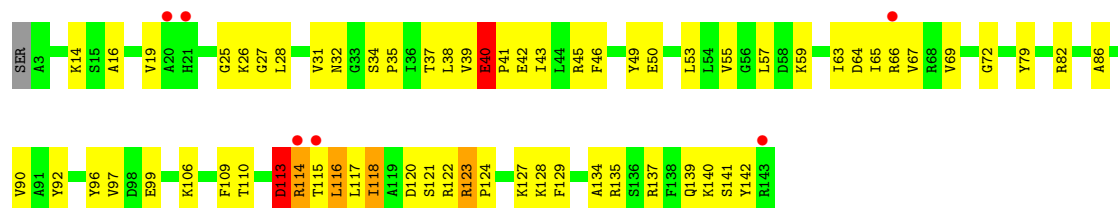
• Molecule 64: 40S ribosomal protein S15



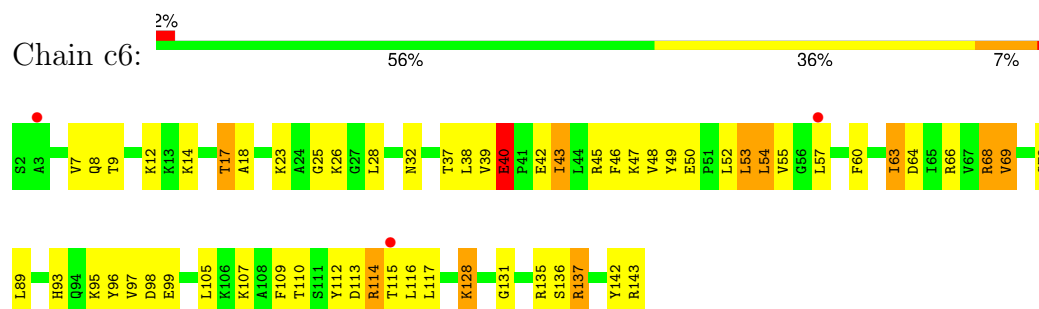
• Molecule 64: 40S ribosomal protein S15



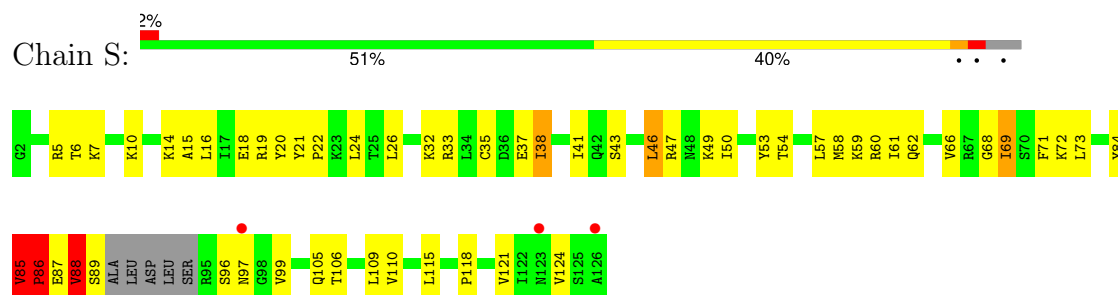
• Molecule 65: 40S ribosomal protein S16-A



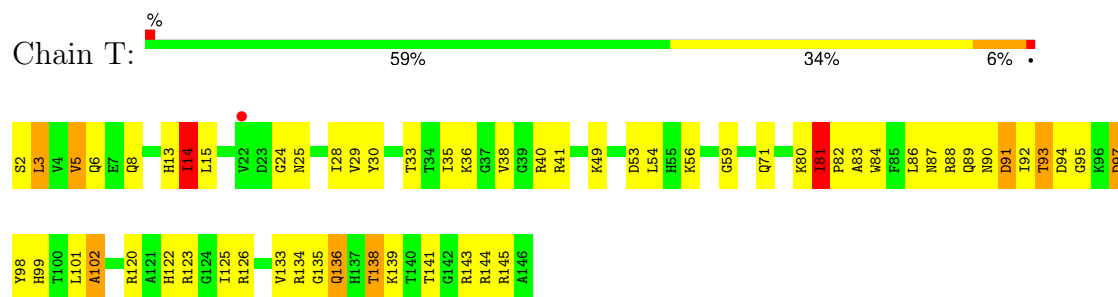
- Molecule 65: 40S ribosomal protein S16-A



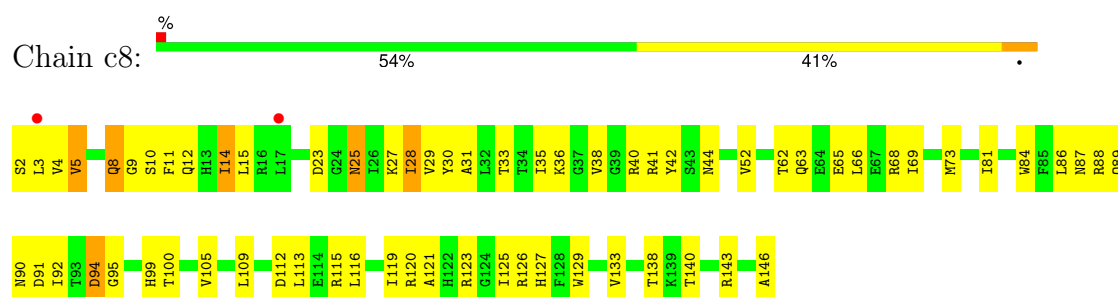
- Molecule 66: 40S ribosomal protein S17-B



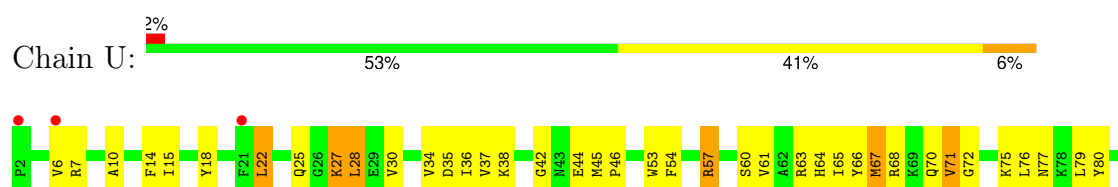
- Molecule 67: 40S ribosomal protein S18-A



- Molecule 67: 40S ribosomal protein S18-A



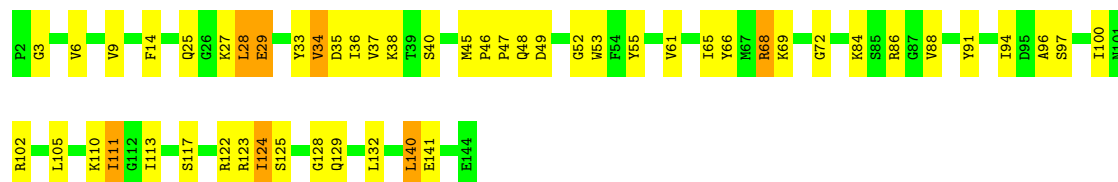
- Molecule 68: 40S ribosomal protein S19-A





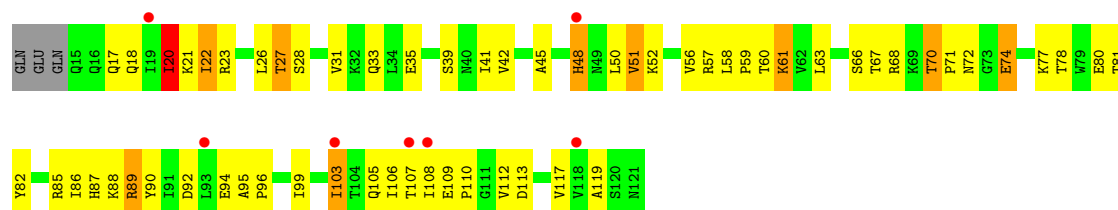
- Molecule 68: 40S ribosomal protein S19-A

Chain c9: 64% 31% 5%



- Molecule 69: 40S ribosomal protein S20

Chain V: 6% 42% 46% 8%



- Molecule 69: 40S ribosomal protein S20

Chain d0: 49% 45% 5%



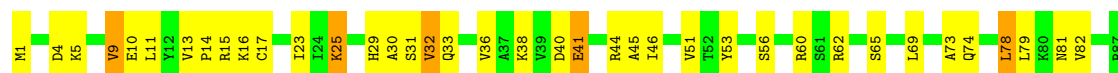
- Molecule 70: 40S ribosomal protein S21-A

Chain W: 2% 57% 38% 5%

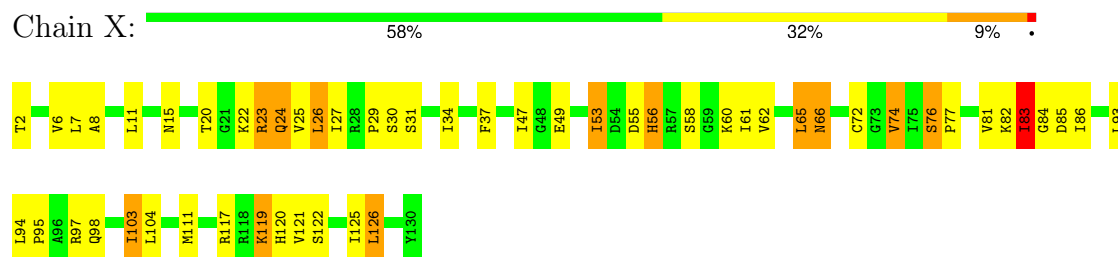


- Molecule 70: 40S ribosomal protein S21-A

Chain d1: 56% 38% 6%



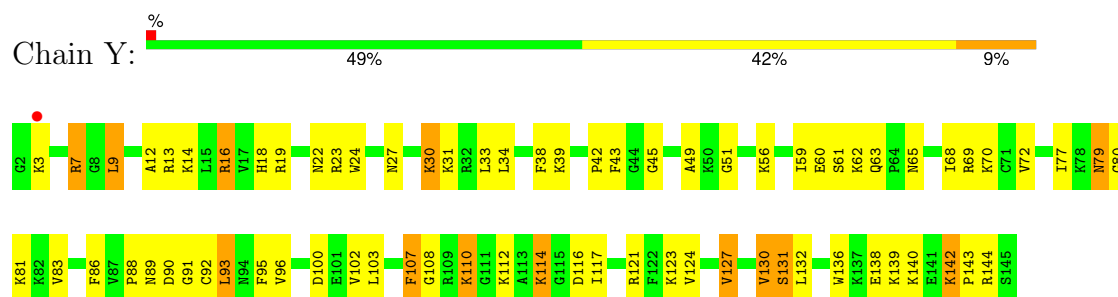
- Molecule 71: 40S ribosomal protein S22-A



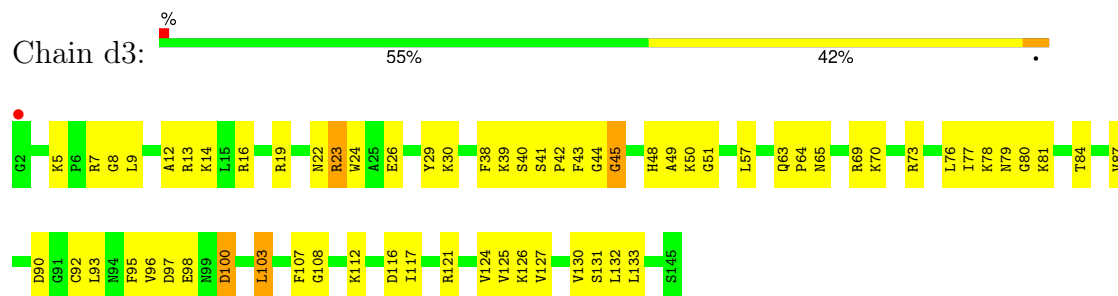
- Molecule 71: 40S ribosomal protein S22-A



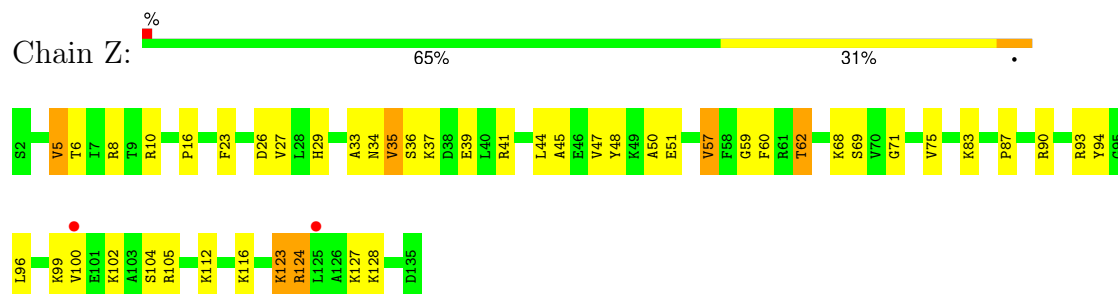
- Molecule 72: 40S ribosomal protein S23-A



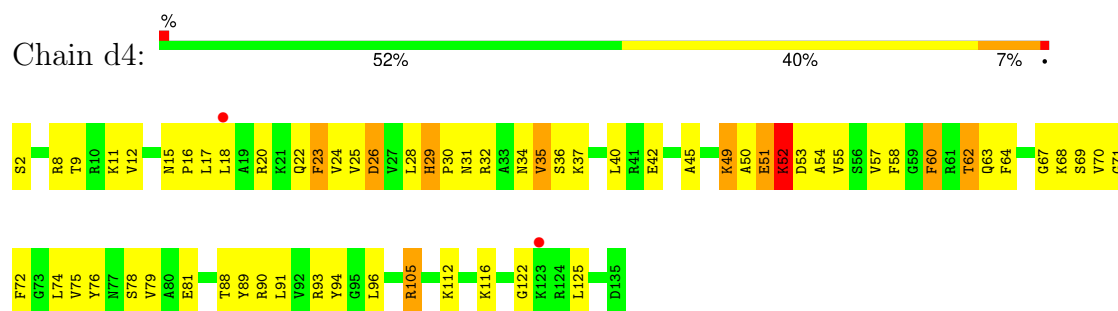
- Molecule 72: 40S ribosomal protein S23-A



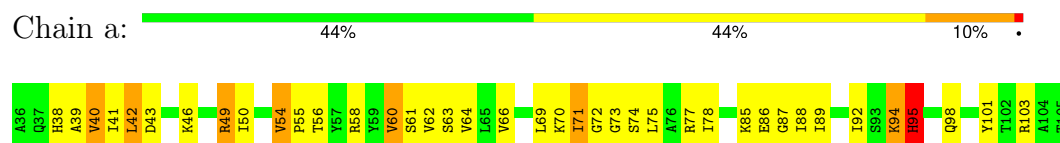
- Molecule 73: 40S ribosomal protein S24-A



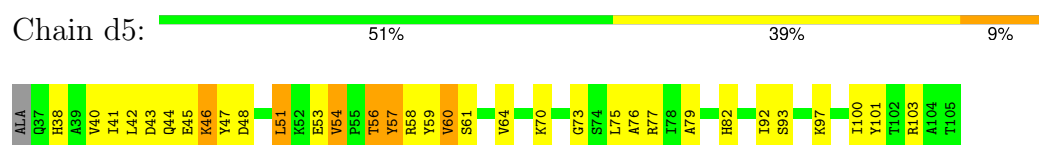
- Molecule 73: 40S ribosomal protein S24-A



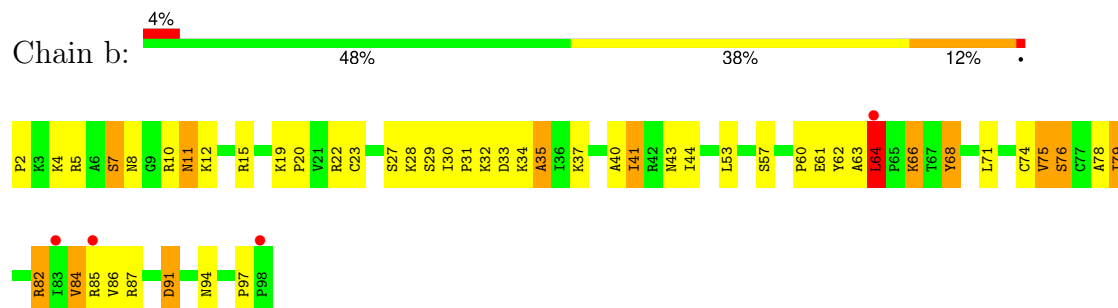
- Molecule 74: 40S ribosomal protein S25-A



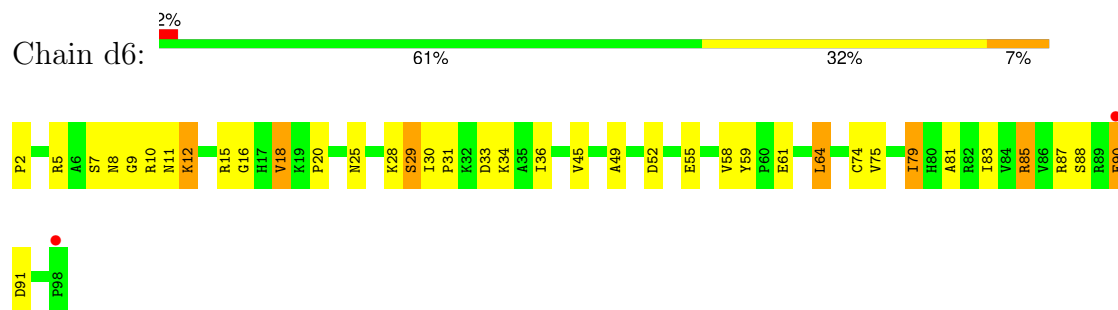
- Molecule 74: 40S ribosomal protein S25-A



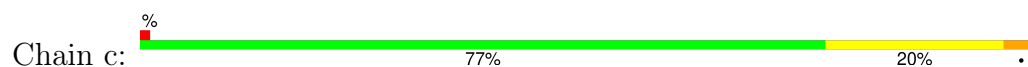
- Molecule 75: 40S ribosomal protein S26-B

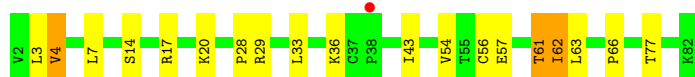


- Molecule 75: 40S ribosomal protein S26-B



- Molecule 76: 40S ribosomal protein S27-A

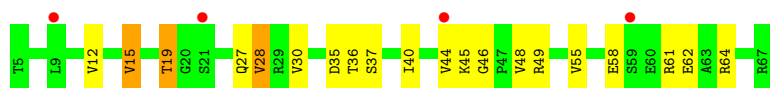




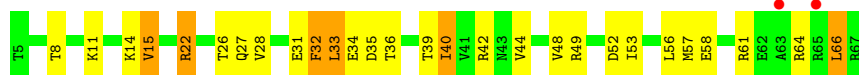
- Molecule 76: 40S ribosomal protein S27-A



- Molecule 77: 40S ribosomal protein S28-A



- Molecule 77: 40S ribosomal protein S28-A



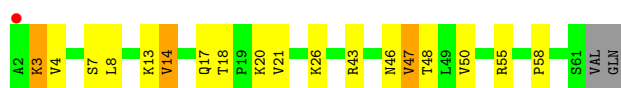
- Molecule 78: 40S ribosomal protein S29-A



- Molecule 78: 40S ribosomal protein S29-A



- Molecule 79: 40S ribosomal protein S30-A



- Molecule 79: 40S ribosomal protein S30-A

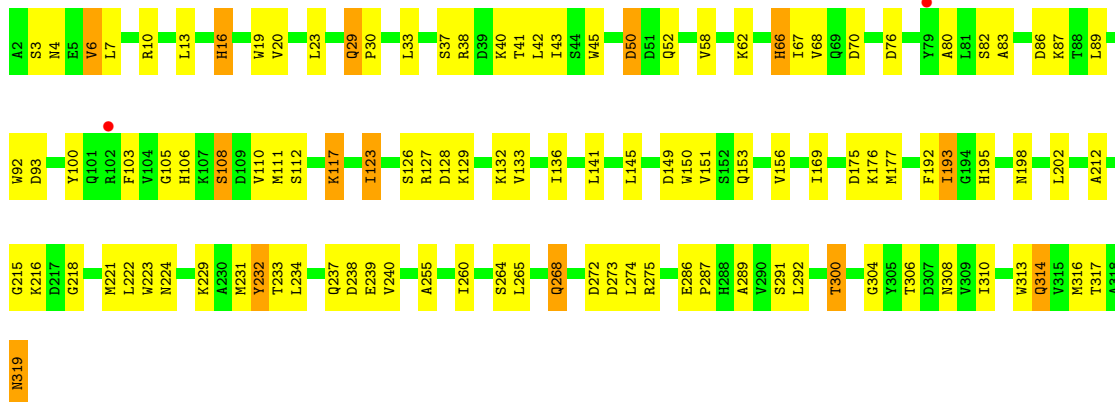




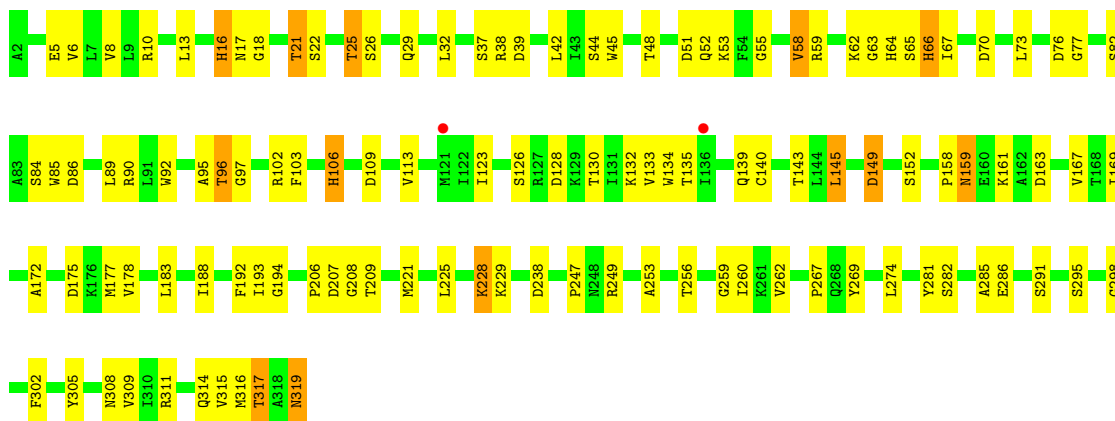
- Molecule 80: Ubiquitin-40S ribosomal protein S31



- Molecule 81: Guanine nucleotide-binding protein subunit beta-like protein

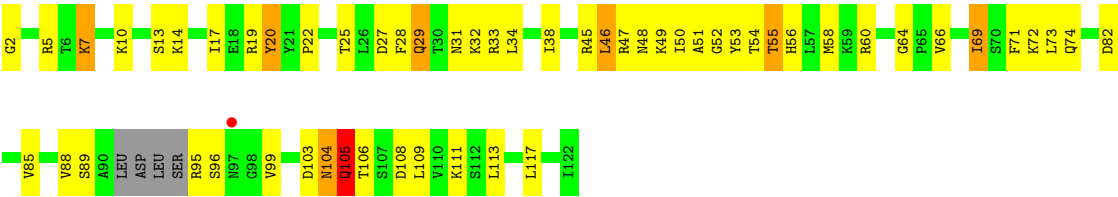


- Molecule 81: Guanine nucleotide-binding protein subunit beta-like protein

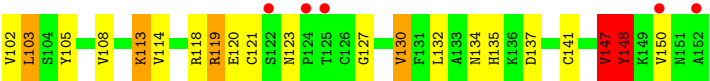


- Molecule 82: 40S ribosomal protein S17-A





● Molecule 83: Ubiquitin-40S ribosomal protein S31



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	304.08Å 286.55Å 436.55Å 90.00° 99.05° 90.00°	Depositor
Resolution (Å)	98.38 – 3.50 98.38 – 3.50	Depositor EDS
% Data completeness (in resolution range)	100.0 (98.38-3.50) 100.0 (98.38-3.50)	Depositor EDS
R_{merge}	0.57	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.30 (at 3.49Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.195 , 0.239 0.199 , 0.240	Depositor DCC
R_{free} test set	18298 reflections (1.98%)	wwPDB-VP
Wilson B-factor (Å ²)	71.3	Xtriage
Anisotropy	0.145	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.30 , 83.0	EDS
L-test for twinning ²	$\langle L \rangle = 0.43$, $\langle L^2 \rangle = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.92	EDS
Total number of atoms	409590	wwPDB-VP
Average B, all atoms (Å ²)	79.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.54% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality ⓘ

5.1 Standard geometry ⓘ

Bond lengths and bond angles in the following residue types are not validated in this section: 7MB, OHX, MG, ZN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z > 5$	RMSZ	$\# Z > 5$
1	1	0.37	0/75394	0.52	1/117545 (0.0%)
1	AR	0.39	0/75394	0.53	4/117545 (0.0%)
2	3	0.35	0/2883	0.48	0/4491
2	AS	0.39	0/2883	0.52	0/4491
3	4	0.35	0/3746	0.49	0/5832
3	AT	0.34	0/3746	0.47	0/5832
4	CD	0.62	0/1948	1.00	4/2617 (0.2%)
4	j	0.61	0/1948	1.02	7/2617 (0.3%)
5	CE	0.68	0/3146	1.02	9/4228 (0.2%)
5	k	0.63	0/3146	0.98	4/4228 (0.1%)
6	CF	0.64	1/2800 (0.0%)	1.07	10/3790 (0.3%)
6	l	0.66	0/2800	1.05	12/3790 (0.3%)
7	CG	0.60	0/2425	0.96	7/3271 (0.2%)
7	m	0.49	0/2425	0.88	3/3271 (0.1%)
8	CH	0.66	0/1260	0.97	1/1694 (0.1%)
8	n	0.62	0/1260	0.92	0/1694
9	CI	0.68	0/1821	1.06	12/2451 (0.5%)
9	o	0.67	0/1821	0.99	2/2451 (0.1%)
10	CJ	0.49	0/1836	0.94	5/2481 (0.2%)
10	p	0.50	0/1836	0.96	5/2481 (0.2%)
11	CK	0.64	0/1539	0.98	3/2073 (0.1%)
11	q	0.58	0/1539	0.93	2/2073 (0.1%)
12	CL	0.63	0/1741	1.03	7/2335 (0.3%)
12	r	0.61	0/1741	0.94	0/2335
13	CM	0.61	0/1374	1.01	6/1842 (0.3%)
13	s	0.51	0/1374	0.96	4/1842 (0.2%)
14	CN	0.61	0/1568	1.06	9/2106 (0.4%)
14	t	0.64	0/1568	1.05	3/2106 (0.1%)
15	CO	0.69	0/1068	0.97	0/1438
15	u	0.64	0/1068	1.01	4/1438 (0.3%)
16	CP	0.56	0/1757	0.94	6/2354 (0.3%)
16	v	0.62	0/1757	1.01	7/2354 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	CQ	0.77	0/1585	1.01	4/2128 (0.2%)
17	w	0.70	0/1585	1.00	2/2128 (0.1%)
18	CR	0.73	0/1443	1.07	6/1944 (0.3%)
18	x	0.66	0/1443	1.05	7/1944 (0.4%)
19	CS	0.63	0/1465	1.05	7/1965 (0.4%)
19	y	0.66	0/1465	1.09	6/1965 (0.3%)
20	CT	0.61	0/1538	0.97	3/2050 (0.1%)
20	z	0.50	0/1538	0.88	2/2050 (0.1%)
21	0	0.64	0/1481	1.04	5/1990 (0.3%)
21	CU	0.69	0/1481	1.05	4/1990 (0.2%)
22	2	0.61	0/1300	0.95	4/1743 (0.2%)
22	CV	0.64	0/1300	1.01	4/1743 (0.2%)
23	5	0.44	0/812	0.87	0/1099
23	CW	0.49	0/812	0.98	4/1099 (0.4%)
24	CX	0.79	0/1018	1.05	2/1369 (0.1%)
24	l2	0.61	0/1018	0.96	0/1369
25	6	0.32	0/42490	0.46	0/66207
25	A	0.26	0/42443	0.42	0/66134
26	7	0.53	0/712	0.99	2/958 (0.2%)
26	CY	0.63	0/712	1.05	3/958 (0.3%)
27	8	0.55	0/979	0.97	4/1321 (0.3%)
27	CZ	0.56	0/979	0.94	2/1321 (0.2%)
28	9	0.59	0/1004	1.05	7/1341 (0.5%)
28	DA	0.58	0/1004	1.05	3/1341 (0.2%)
29	AA	0.45	0/1118	0.83	1/1497 (0.1%)
29	DB	0.45	0/1118	0.93	2/1497 (0.1%)
30	AB	0.61	0/1204	1.09	8/1612 (0.5%)
30	DC	0.62	0/1204	1.14	8/1612 (0.5%)
31	AC	0.57	0/473	1.05	3/629 (0.5%)
31	DD	0.64	0/473	1.10	2/629 (0.3%)
32	AD	0.42	0/751	0.82	0/1008
32	DE	0.50	0/751	0.87	2/1008 (0.2%)
33	AE	0.51	0/890	0.91	1/1196 (0.1%)
33	DF	0.61	0/890	1.01	3/1196 (0.3%)
34	AF	0.69	0/1041	1.00	0/1394
34	DG	0.69	0/1041	0.96	0/1394
35	AG	0.66	0/868	1.06	3/1168 (0.3%)
35	DH	0.68	0/868	1.02	1/1168 (0.1%)
36	AH	0.50	0/890	0.94	1/1189 (0.1%)
36	DI	0.50	0/890	1.02	2/1189 (0.2%)
37	AI	0.57	0/978	0.94	0/1301
37	DJ	0.52	0/978	0.86	0/1301
38	AJ	0.56	0/778	0.96	4/1034 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	DK	0.54	0/778	0.90	0/1034
39	AK	0.60	0/696	1.09	4/923 (0.4%)
39	DL	0.58	0/696	0.98	3/923 (0.3%)
40	AL	0.45	0/618	0.93	4/826 (0.5%)
40	DM	0.46	0/618	0.87	2/826 (0.2%)
41	AM	0.62	0/443	0.96	0/588
41	DN	0.56	0/443	0.89	0/588
42	AN	0.61	0/423	1.08	2/562 (0.4%)
42	DO	0.67	0/423	1.13	2/562 (0.4%)
43	AO	0.52	0/234	0.84	0/300
43	DP	0.59	0/234	0.86	0/300
44	AP	0.56	0/860	1.07	3/1136 (0.3%)
44	DQ	0.59	0/860	1.03	3/1136 (0.3%)
45	AQ	0.56	0/701	0.94	0/934
45	DR	0.62	0/701	1.08	3/934 (0.3%)
46	i	0.54	0/1113	1.05	7/1502 (0.5%)
47	p0	0.47	0/1092	0.91	3/1474 (0.2%)
48	sM	0.61	0/480	1.18	7/642 (1.1%)
49	B	0.51	0/1617	1.08	14/2215 (0.6%)
49	s0	0.54	0/1623	1.03	12/2222 (0.5%)
50	C	0.42	0/1735	0.91	5/2335 (0.2%)
50	s1	0.47	0/1748	0.95	7/2352 (0.3%)
51	D	0.49	0/1665	0.99	3/2263 (0.1%)
51	s2	0.57	0/1665	0.97	2/2263 (0.1%)
52	E	0.46	0/1759	0.90	3/2368 (0.1%)
52	s3	0.46	0/1759	0.93	7/2368 (0.3%)
53	F	0.47	0/2109	0.96	8/2839 (0.3%)
53	s4	0.52	0/2109	0.98	7/2839 (0.2%)
54	G	0.42	0/1629	0.87	2/2202 (0.1%)
54	s5	0.48	0/1629	0.89	1/2202 (0.0%)
55	H	0.42	0/1823	0.83	0/2439
55	s6	0.49	0/1779	0.89	3/2379 (0.1%)
56	I	0.44	0/1506	0.93	5/2028 (0.2%)
56	s7	0.46	0/1516	0.95	6/2043 (0.3%)
57	J	0.52	0/1514	0.89	0/2021
57	s8	0.55	0/1514	1.00	6/2021 (0.3%)
58	K	0.43	0/1519	0.90	4/2035 (0.2%)
58	s9	0.51	0/1519	0.91	5/2035 (0.2%)
59	L	0.45	0/789	1.02	4/1067 (0.4%)
59	c0	0.44	0/776	0.97	3/1047 (0.3%)
60	M	0.55	0/1239	1.02	8/1673 (0.5%)
60	c1	0.59	0/1194	0.99	2/1610 (0.1%)
61	N	0.49	0/898	0.96	1/1220 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
61	c2	0.46	0/898	0.95	3/1220 (0.2%)
62	O	0.47	0/1215	0.96	5/1638 (0.3%)
62	c3	0.54	0/1215	0.94	4/1638 (0.2%)
63	P	0.51	0/901	1.02	0/1217
63	c4	0.54	0/960	1.12	7/1290 (0.5%)
64	Q	0.47	0/998	0.99	0/1341
64	c5	0.52	0/1060	0.99	2/1426 (0.1%)
65	R	0.46	0/1125	0.92	5/1510 (0.3%)
65	c6	0.53	0/1131	0.98	5/1518 (0.3%)
66	S	0.54	1/935 (0.1%)	1.25	4/1254 (0.3%)
67	T	0.46	0/1211	0.90	3/1628 (0.2%)
67	c8	0.51	0/1211	0.92	2/1628 (0.1%)
68	U	0.43	0/1130	0.86	1/1517 (0.1%)
68	c9	0.46	0/1130	0.83	0/1517
69	V	0.50	0/865	0.99	5/1169 (0.4%)
69	d0	0.47	0/892	0.98	3/1205 (0.2%)
70	W	0.44	0/693	0.83	0/935
70	d1	0.49	0/693	0.94	2/935 (0.2%)
71	X	0.49	0/1038	1.05	4/1395 (0.3%)
71	d2	0.58	0/1038	0.98	2/1395 (0.1%)
72	Y	0.54	0/1139	1.00	4/1518 (0.3%)
72	d3	0.64	0/1139	1.11	5/1518 (0.3%)
73	Z	0.43	0/1087	0.86	0/1449
73	d4	0.50	0/1087	0.95	2/1449 (0.1%)
74	a	0.49	0/571	1.05	3/768 (0.4%)
74	d5	0.45	0/566	1.00	3/761 (0.4%)
75	b	0.52	0/782	0.99	4/1047 (0.4%)
75	d6	0.54	0/782	0.91	2/1047 (0.2%)
76	c	0.44	0/620	0.90	0/838
76	d7	0.46	0/620	0.91	2/838 (0.2%)
77	d	0.37	0/499	0.81	0/670
77	d8	0.43	0/499	0.90	0/670
78	d9	0.48	0/452	0.86	0/600
78	e	0.46	0/452	0.95	1/600 (0.2%)
79	e0	0.56	0/499	1.09	2/665 (0.3%)
79	f	0.51	0/483	0.93	1/643 (0.2%)
80	g	0.64	0/577	1.15	2/770 (0.3%)
81	h	0.40	0/2490	0.82	2/3389 (0.1%)
81	sR	0.42	0/2495	0.83	1/3395 (0.0%)
82	c7	0.49	0/914	1.07	5/1224 (0.4%)
83	e1	0.48	0/404	1.12	4/542 (0.7%)
All	All	0.45	2/429965 (0.0%)	0.72	520/631328 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
7	CG	0	1
10	CJ	0	1
12	CL	0	1
15	u	0	1
17	CQ	0	1
17	w	0	1
20	CT	0	1
22	2	0	1
26	7	0	1
26	CY	0	2
28	9	0	1
28	DA	0	1
29	DB	0	1
30	AB	0	1
31	AC	0	1
48	sM	0	1
49	B	0	1
50	s1	0	1
51	D	0	1
51	s2	0	1
52	E	0	1
52	s3	0	1
53	F	0	1
54	G	0	2
54	s5	0	1
56	I	0	2
56	s7	0	4
58	K	0	1
61	c2	0	4
64	Q	0	1
64	c5	0	1
65	R	0	2
65	c6	0	1
66	S	0	2
73	d4	0	2
74	a	0	1
80	g	0	2
82	c7	0	1
All	All	0	51

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	CF	77	VAL	CA-CB	-5.33	1.48	1.54
66	S	88	VAL	CA-CB	5.29	1.61	1.54

All (520) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
66	S	85	VAL	CA-C-N	20.61	145.60	119.84
66	S	85	VAL	C-N-CA	20.61	145.60	119.84
30	DC	116	GLY	N-CA-C	12.44	123.77	111.95
21	0	167	ARG	CA-C-N	12.11	134.98	119.84
21	0	167	ARG	C-N-CA	12.11	134.98	119.84
82	c7	117	LEU	CA-C-N	10.85	130.94	120.31
82	c7	117	LEU	C-N-CA	10.85	130.94	120.31
21	CU	167	ARG	CA-C-N	10.71	131.38	119.92
21	CU	167	ARG	C-N-CA	10.71	131.38	119.92
36	DI	11	ASN	CA-C-N	10.09	129.83	119.64
36	DI	11	ASN	C-N-CA	10.09	129.83	119.64
53	F	229	GLY	N-CA-C	10.04	123.14	110.29
72	d3	130	VAL	N-CA-C	9.81	121.51	112.29
42	DO	79	GLU	CA-C-N	9.63	130.30	119.32
42	DO	79	GLU	C-N-CA	9.63	130.30	119.32
56	s7	62	VAL	CA-C-N	-9.59	107.85	119.84
56	s7	62	VAL	C-N-CA	-9.59	107.85	119.84
74	d5	54	VAL	CA-C-N	-9.57	107.88	119.84
74	d5	54	VAL	C-N-CA	-9.57	107.88	119.84
50	s1	189	ILE	CA-C-N	-9.55	112.00	121.65
50	s1	189	ILE	C-N-CA	-9.55	112.00	121.65
74	a	95	HIS	N-CA-C	9.33	120.56	108.34
42	AN	79	GLU	CA-C-N	9.25	130.20	119.47
42	AN	79	GLU	C-N-CA	9.25	130.20	119.47
71	X	76	SER	CA-C-N	-9.17	110.27	119.90
71	X	76	SER	C-N-CA	-9.17	110.27	119.90
44	AP	4	VAL	CA-C-N	9.09	129.18	119.90
44	AP	4	VAL	C-N-CA	9.09	129.18	119.90
56	I	131	PHE	CA-C-N	-8.83	112.73	121.65
56	I	131	PHE	C-N-CA	-8.83	112.73	121.65
30	AB	67	HIS	N-CA-C	-8.77	101.72	111.28
75	b	64	LEU	CA-C-N	8.66	130.67	119.84
75	b	64	LEU	C-N-CA	8.66	130.67	119.84
31	DD	23	LYS	CA-C-N	8.52	130.49	119.84
31	DD	23	LYS	C-N-CA	8.52	130.49	119.84
19	y	18	ALA	CA-C-N	-8.51	111.97	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
19	y	18	ALA	C-N-CA	-8.51	111.97	120.31
9	CI	95	ILE	CA-C-N	8.44	129.07	120.38
9	CI	95	ILE	C-N-CA	8.44	129.07	120.38
16	v	93	LYS	N-CA-C	8.32	124.44	113.30
62	O	136	PRO	CA-C-N	-8.23	109.56	119.84
62	O	136	PRO	C-N-CA	-8.23	109.56	119.84
31	AC	20	GLY	N-CA-C	8.20	127.32	111.66
16	CP	93	LYS	N-CA-C	8.13	123.41	113.17
6	l	3	ARG	CA-C-N	8.04	129.89	119.84
6	l	3	ARG	C-N-CA	8.04	129.89	119.84
30	AB	116	GLY	N-CA-C	7.95	122.84	112.18
51	D	150	GLN	CA-C-N	7.95	128.43	119.93
51	D	150	GLN	C-N-CA	7.95	128.43	119.93
27	8	115	ARG	CA-C-N	-7.90	109.97	119.84
27	8	115	ARG	C-N-CA	-7.90	109.97	119.84
71	X	55	ASP	N-CA-C	-7.82	100.00	110.55
47	p0	70	LEU	CA-C-N	7.77	127.42	119.19
47	p0	70	LEU	C-N-CA	7.77	127.42	119.19
35	DH	92	LYS	N-CA-C	-7.76	103.26	112.89
27	CZ	65	GLN	CA-C-N	-7.76	112.00	119.76
27	CZ	65	GLN	C-N-CA	-7.76	112.00	119.76
69	d0	18	GLN	CB-CA-C	-7.74	105.67	115.89
12	CL	159	PHE	CA-C-N	7.71	127.64	119.85
12	CL	159	PHE	C-N-CA	7.71	127.64	119.85
35	AG	92	LYS	N-CA-C	-7.70	103.68	113.23
48	sM	43	ASP	CA-C-N	7.63	127.16	118.85
48	sM	43	ASP	C-N-CA	7.63	127.16	118.85
46	i	167	PRO	N-CA-CB	7.62	111.25	103.25
15	u	53	VAL	CA-C-N	7.59	127.58	119.76
15	u	53	VAL	C-N-CA	7.59	127.58	119.76
57	s8	163	GLY	N-CA-C	-7.58	104.58	115.64
83	e1	148	TYR	N-CA-C	7.56	119.75	110.91
10	p	72	PRO	CA-C-N	7.53	127.16	119.56
10	p	72	PRO	C-N-CA	7.53	127.16	119.56
10	CJ	158	ASP	CA-C-N	-7.53	110.43	119.84
10	CJ	158	ASP	C-N-CA	-7.53	110.43	119.84
80	g	104	SER	N-CA-C	-7.51	103.71	113.17
28	DA	85	VAL	N-CA-C	7.50	119.05	108.93
12	CL	26	VAL	CA-C-N	7.48	127.64	120.31
12	CL	26	VAL	C-N-CA	7.48	127.64	120.31
53	s4	34	GLY	CA-C-N	7.48	127.51	119.28
53	s4	34	GLY	C-N-CA	7.48	127.51	119.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
50	C	207	LEU	CB-CA-C	-7.46	106.91	115.79
51	s2	105	GLY	N-CA-C	-7.45	102.09	110.96
83	e1	147	VAL	N-CA-C	7.38	118.56	110.21
10	p	71	VAL	CA-C-N	7.37	127.97	120.38
10	p	71	VAL	C-N-CA	7.37	127.97	120.38
52	s3	210	GLU	CA-C-N	7.36	127.36	119.78
52	s3	210	GLU	C-N-CA	7.36	127.36	119.78
14	CN	76	THR	CB-CA-C	-7.35	106.05	116.34
6	CF	183	LYS	N-CA-C	-7.32	103.95	113.17
39	DL	5	THR	CA-C-N	-7.31	110.88	118.85
39	DL	5	THR	C-N-CA	-7.31	110.88	118.85
46	i	38	PRO	CA-C-N	7.30	127.90	120.38
46	i	38	PRO	C-N-CA	7.30	127.90	120.38
22	CV	134	GLN	CA-C-N	7.29	127.28	119.78
22	CV	134	GLN	C-N-CA	7.29	127.28	119.78
19	y	162	ALA	CA-C-N	7.29	127.32	119.89
19	y	162	ALA	C-N-CA	7.29	127.32	119.89
5	CE	39	LYS	CA-C-N	7.29	128.95	119.84
5	CE	39	LYS	C-N-CA	7.29	128.95	119.84
65	R	40	GLU	CA-C-N	7.27	128.93	119.84
65	R	40	GLU	C-N-CA	7.27	128.93	119.84
65	c6	40	GLU	CA-C-N	-7.23	112.14	121.91
65	c6	40	GLU	C-N-CA	-7.23	112.14	121.91
59	L	88	PRO	N-CA-CB	7.23	110.84	103.25
75	b	35	ALA	N-CA-C	7.22	120.01	111.71
53	s4	119	ALA	N-CA-C	-7.22	104.47	113.28
79	e0	52	GLY	N-CA-C	-7.22	105.09	115.27
49	B	34	GLU	CA-C-N	7.21	127.36	119.87
49	B	34	GLU	C-N-CA	7.21	127.36	119.87
13	s	172	LEU	CB-CA-C	-7.21	107.22	115.79
17	w	69	GLY	CA-C-N	7.16	127.59	119.93
17	w	69	GLY	C-N-CA	7.16	127.59	119.93
6	l	198	ARG	N-CA-C	7.12	121.60	112.34
72	d3	41	SER	CA-C-N	7.10	126.36	118.97
72	d3	41	SER	C-N-CA	7.10	126.36	118.97
6	CF	198	ARG	N-CA-C	7.09	120.82	111.75
39	AK	5	THR	CA-C-N	-7.08	111.19	119.05
39	AK	5	THR	C-N-CA	-7.08	111.19	119.05
72	Y	130	VAL	N-CA-C	7.08	118.95	112.29
10	CJ	71	VAL	CA-C-N	7.08	127.67	120.38
10	CJ	71	VAL	C-N-CA	7.08	127.67	120.38
53	F	193	GLY	N-CA-C	7.08	129.95	113.18

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
15	u	30	GLY	N-CA-C	-7.07	105.32	115.64
50	s1	106	THR	CB-CA-C	-7.04	106.48	116.34
56	s7	131	PHE	CA-C-N	-6.98	111.12	119.84
56	s7	131	PHE	C-N-CA	-6.98	111.12	119.84
14	t	26	PHE	N-CA-C	-6.96	103.46	112.23
6	l	84	ARG	N-CA-C	-6.87	103.79	111.28
13	CM	56	THR	N-CA-C	-6.86	104.39	112.89
66	S	121	VAL	N-CA-C	6.80	116.83	108.53
45	DR	50	GLY	N-CA-C	-6.79	97.09	113.18
60	M	129	ARG	CA-C-N	-6.79	112.50	119.83
60	M	129	ARG	C-N-CA	-6.79	112.50	119.83
59	c0	88	PRO	N-CA-CB	6.78	110.37	103.25
45	DR	53	GLY	N-CA-C	-6.77	106.63	114.69
52	s3	219	ALA	CA-C-N	6.76	128.29	119.84
52	s3	219	ALA	C-N-CA	6.76	128.29	119.84
21	CU	23	LYS	N-CA-C	6.72	121.09	113.02
55	s6	103	GLY	CA-C-N	6.72	126.86	119.87
55	s6	103	GLY	C-N-CA	6.72	126.86	119.87
68	U	54	PHE	N-CA-C	-6.70	103.45	111.69
28	9	113	LYS	N-CA-C	-6.70	103.91	111.14
5	k	82	PRO	O-C-N	6.69	124.29	121.15
63	c4	125	SER	N-CA-C	6.69	118.81	109.31
6	CF	101	ALA	CA-C-N	6.68	126.70	119.89
6	CF	101	ALA	C-N-CA	6.68	126.70	119.89
44	AP	65	THR	N-CA-C	6.66	117.07	108.34
53	F	34	GLY	CA-C-N	6.66	126.25	119.19
53	F	34	GLY	C-N-CA	6.66	126.25	119.19
16	CP	136	ASP	CA-C-N	6.66	126.28	119.56
16	CP	136	ASP	C-N-CA	6.66	126.28	119.56
57	s8	172	ARG	CA-C-N	6.65	127.18	119.47
57	s8	172	ARG	C-N-CA	6.65	127.18	119.47
65	c6	14	LYS	CB-CA-C	-6.64	108.90	116.54
69	V	20	ILE	N-CA-C	6.63	119.39	112.83
19	CS	18	ALA	CA-C-N	-6.63	113.11	120.14
19	CS	18	ALA	C-N-CA	-6.63	113.11	120.14
72	d3	117	ILE	N-CA-C	6.62	113.59	107.56
6	CF	222	VAL	CA-C-N	6.61	126.96	119.83
6	CF	222	VAL	C-N-CA	6.61	126.96	119.83
30	DC	24	LYS	CB-CA-C	-6.57	107.22	115.89
52	s3	215	GLU	CA-C-N	6.57	128.05	119.84
52	s3	215	GLU	C-N-CA	6.57	128.05	119.84
49	s0	141	ILE	CA-C-N	6.54	126.56	119.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	s0	141	ILE	C-N-CA	6.54	126.56	119.89
12	CL	10	ARG	N-CA-C	6.52	118.39	111.28
72	d3	45	GLY	N-CA-C	-6.52	106.24	115.43
62	c3	136	PRO	CA-C-N	6.50	127.96	119.84
62	c3	136	PRO	C-N-CA	6.50	127.96	119.84
69	V	17	GLN	N-CA-C	6.48	119.12	111.02
5	k	316	GLU	N-CA-C	6.48	121.35	113.38
33	DF	64	VAL	CB-CA-C	-6.48	103.39	112.14
9	CI	226	GLY	N-CA-C	-6.44	105.79	115.32
18	x	62	ARG	CA-C-N	-6.44	113.24	122.77
18	x	62	ARG	C-N-CA	-6.44	113.24	122.77
52	E	37	VAL	N-CA-C	6.43	116.37	108.53
49	s0	167	LYS	CB-CA-C	-6.43	109.17	116.63
56	s7	111	LYS	CB-CA-C	-6.42	108.15	115.79
22	CV	18	ASP	CB-CA-C	-6.42	107.41	115.89
53	F	212	ASP	CA-C-N	-6.42	113.36	122.41
53	F	212	ASP	C-N-CA	-6.42	113.36	122.41
75	b	97	PRO	N-CA-C	6.41	118.52	110.70
39	AK	57	HIS	N-CA-C	6.38	121.20	113.17
4	j	140	ASN	CA-C-N	6.37	126.58	119.32
4	j	140	ASN	C-N-CA	6.37	126.58	119.32
65	R	43	ILE	N-CA-C	-6.36	102.91	111.44
57	s8	136	SER	CB-CA-C	-6.35	108.24	115.79
20	z	25	ASP	CA-C-N	6.34	125.96	119.56
20	z	25	ASP	C-N-CA	6.34	125.96	119.56
27	8	43	ALA	CA-C-N	6.34	126.31	119.78
27	8	43	ALA	C-N-CA	6.34	126.31	119.78
49	B	64	ILE	CA-C-N	-6.34	113.39	122.77
49	B	64	ILE	C-N-CA	-6.34	113.39	122.77
10	p	77	GLN	N-CA-C	-6.31	105.07	112.89
59	c0	97	PRO	N-CA-CB	6.30	109.87	103.25
60	c1	128	CYS	N-CA-C	6.30	121.75	113.30
65	c6	142	TYR	CB-CA-C	-6.30	108.66	117.23
58	s9	159	ALA	CA-C-N	6.27	126.74	119.47
58	s9	159	ALA	C-N-CA	6.27	126.74	119.47
69	d0	120	SER	CB-CA-C	-6.26	109.34	116.54
6	l	45	ASN	N-CA-C	6.26	118.91	111.71
46	i	21	PRO	CA-C-N	6.25	126.60	119.92
46	i	21	PRO	C-N-CA	6.25	126.60	119.92
21	0	156	VAL	N-CA-C	6.24	116.86	107.75
49	B	67	ILE	CA-C-N	6.23	126.70	119.47
49	B	67	ILE	C-N-CA	6.23	126.70	119.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
72	Y	93	LEU	N-CA-C	-6.23	105.68	113.28
49	B	45	VAL	N-CA-C	6.22	117.45	109.30
30	AB	31	GLY	N-CA-C	-6.22	103.47	112.17
14	CN	5	LYS	CB-CA-C	-6.21	108.40	115.79
26	CY	95	SER	CA-C-N	6.21	133.40	121.54
26	CY	95	SER	C-N-CA	6.21	133.40	121.54
4	j	218	HIS	N-CA-C	6.20	117.65	108.60
30	DC	49	HIS	CA-C-N	-6.20	113.57	120.14
30	DC	49	HIS	C-N-CA	-6.20	113.57	120.14
59	c0	83	PRO	N-CA-CB	6.20	109.76	103.25
63	c4	12	GLN	CB-CA-C	-6.18	107.74	115.89
69	d0	18	GLN	N-CA-C	6.17	119.38	109.02
16	CP	83	LYS	CA-C-N	6.16	125.84	119.56
16	CP	83	LYS	C-N-CA	6.16	125.84	119.56
1	AR	1307	G	C2'-C3'-O3'	6.14	118.72	109.50
14	CN	24	VAL	CA-C-N	-6.14	114.32	122.85
14	CN	24	VAL	C-N-CA	-6.14	114.32	122.85
9	CI	94	LYS	CA-C-N	-6.13	116.64	123.02
9	CI	94	LYS	C-N-CA	-6.13	116.64	123.02
79	f	7	SER	N-CA-C	6.13	119.12	110.23
9	CI	233	GLU	CB-CA-C	-6.13	109.52	116.63
6	l	183	LYS	N-CA-C	-6.12	105.81	113.28
30	AB	49	HIS	CA-C-N	-6.11	113.65	119.76
30	AB	49	HIS	C-N-CA	-6.11	113.65	119.76
48	sM	53	ARG	CA-C-N	6.11	126.45	119.92
48	sM	53	ARG	C-N-CA	6.11	126.45	119.92
5	CE	328	ILE	CA-C-N	-6.10	114.33	120.31
5	CE	328	ILE	C-N-CA	-6.10	114.33	120.31
52	E	215	GLU	CA-C-N	6.10	127.46	119.84
52	E	215	GLU	C-N-CA	6.10	127.46	119.84
50	C	22	ASP	CA-C-N	6.09	127.46	119.84
50	C	22	ASP	C-N-CA	6.09	127.46	119.84
13	CM	7	ASN	N-CA-C	6.09	119.54	109.79
49	s0	78	SER	N-CA-C	-6.08	104.84	112.93
62	O	28	LEU	CB-CA-C	-6.06	107.85	116.34
60	M	54	ILE	N-CA-C	6.05	118.82	112.83
18	x	83	TRP	CA-C-N	6.04	127.39	119.84
18	x	83	TRP	C-N-CA	6.04	127.39	119.84
23	CW	29	ASP	CA-C-N	6.02	125.72	119.82
23	CW	29	ASP	C-N-CA	6.02	125.72	119.82
49	B	151	SER	CA-C-N	6.01	127.35	119.84
49	B	151	SER	C-N-CA	6.01	127.35	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	s5	207	THR	N-CA-C	-6.00	105.53	112.92
38	AJ	21	THR	CA-C-N	6.00	126.34	119.92
38	AJ	21	THR	C-N-CA	6.00	126.34	119.92
47	p0	54	GLY	N-CA-C	5.99	119.35	110.42
4	CD	251	LYS	CB-CA-C	-5.99	108.67	115.79
14	CN	12	ASN	CA-C-N	-5.97	112.78	122.34
14	CN	12	ASN	C-N-CA	-5.97	112.78	122.34
60	M	5	LEU	CB-CA-C	-5.97	108.01	115.89
60	M	112	SER	CA-C-N	5.97	125.67	119.82
60	M	112	SER	C-N-CA	5.97	125.67	119.82
16	CP	90	ASN	N-CA-C	5.95	117.57	111.14
50	C	180	THR	CB-CA-C	-5.95	108.04	115.89
18	CR	160	ALA	N-CA-C	5.94	118.45	111.02
19	CS	161	LYS	N-CA-C	5.94	119.49	112.72
40	DM	70	PRO	CA-C-N	5.93	125.55	119.56
40	DM	70	PRO	C-N-CA	5.93	125.55	119.56
21	CU	88	HIS	N-CA-C	5.92	116.38	108.38
49	s0	67	ILE	CA-C-N	5.92	125.40	119.24
49	s0	67	ILE	C-N-CA	5.92	125.40	119.24
1	AR	1307	G	P-O3'-C3'	5.91	129.06	120.20
39	AK	13	ASN	N-CA-C	5.91	118.04	108.41
78	e	9	SER	N-CA-C	5.90	118.03	109.07
48	sM	51	ARG	CA-C-N	5.88	127.19	119.84
48	sM	51	ARG	C-N-CA	5.88	127.19	119.84
14	CN	26	PHE	N-CA-C	-5.87	105.95	113.23
18	CR	62	ARG	CA-C-N	-5.87	114.08	122.77
18	CR	62	ARG	C-N-CA	-5.87	114.08	122.77
13	CM	116	TYR	N-CA-C	5.87	117.55	111.03
45	DR	41	PHE	N-CA-C	5.87	118.91	111.69
62	c3	29	SER	CB-CA-C	-5.87	108.13	116.34
31	AC	36	ASP	CA-C-N	5.85	126.26	119.47
31	AC	36	ASP	C-N-CA	5.85	126.26	119.47
8	CH	53	VAL	N-CA-C	5.84	116.22	107.51
22	2	71	SER	N-CA-C	5.84	117.85	109.14
11	CK	29	GLY	CA-C-N	5.84	125.97	119.32
11	CK	29	GLY	C-N-CA	5.84	125.97	119.32
9	CI	98	LYS	CA-C-N	-5.83	113.01	119.19
9	CI	98	LYS	C-N-CA	-5.83	113.01	119.19
4	CD	65	ASP	CA-C-N	5.81	125.52	119.82
4	CD	65	ASP	C-N-CA	5.81	125.52	119.82
29	DB	59	ALA	CB-CA-C	-5.81	109.86	116.54
53	s4	228	ILE	N-CA-C	5.80	118.47	112.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
62	O	25	TRP	N-CA-C	-5.80	106.20	113.28
60	M	22	ASN	CA-C-N	5.79	125.17	118.85
60	M	22	ASN	C-N-CA	5.79	125.17	118.85
19	y	161	LYS	N-CA-C	5.79	120.04	112.92
15	u	56	GLN	N-CA-C	5.79	117.64	108.79
44	DQ	4	VAL	CA-C-N	5.78	125.54	119.76
44	DQ	4	VAL	C-N-CA	5.78	125.54	119.76
28	9	85	VAL	N-CA-C	5.78	117.09	108.54
13	CM	73	GLY	CA-C-N	5.78	125.46	119.05
13	CM	73	GLY	C-N-CA	5.78	125.46	119.05
72	Y	80	GLY	N-CA-C	-5.78	107.12	115.27
61	c2	90	LYS	CB-CA-C	-5.77	108.28	115.89
13	s	117	ASP	CA-C-N	5.75	127.03	119.84
13	s	117	ASP	C-N-CA	5.75	127.03	119.84
20	CT	167	ARG	N-CA-C	-5.75	104.98	112.23
6	CF	234	ASN	N-CA-C	5.74	118.66	110.10
35	AG	80	VAL	N-CA-C	-5.74	103.72	110.21
19	y	60	PRO	O-C-N	5.72	123.84	121.15
11	CK	145	VAL	N-CA-C	5.72	116.24	107.77
18	CR	10	ASN	CA-C-N	5.71	125.33	119.56
18	CR	10	ASN	C-N-CA	5.71	125.33	119.56
73	d4	60	PHE	N-CA-C	5.71	117.99	109.25
58	K	91	LYS	CA-C-N	-5.69	113.99	123.33
58	K	91	LYS	C-N-CA	-5.69	113.99	123.33
50	s1	22	ASP	CA-C-N	5.69	125.36	119.56
50	s1	22	ASP	C-N-CA	5.69	125.36	119.56
69	V	119	ALA	CB-CA-C	-5.68	109.03	115.79
6	CF	269	SER	N-CA-C	5.68	120.36	113.38
82	c7	64	GLY	CA-C-N	5.67	125.69	119.90
82	c7	64	GLY	C-N-CA	5.67	125.69	119.90
63	c4	91	THR	N-CA-C	5.67	119.01	111.75
13	s	54	VAL	N-CA-C	5.66	116.71	111.45
49	B	193	GLN	CA-C-N	5.65	126.90	119.84
49	B	193	GLN	C-N-CA	5.65	126.90	119.84
49	B	141	ILE	N-CA-C	5.65	113.46	107.76
4	j	213	GLY	N-CA-C	5.64	117.80	112.04
67	T	102	ALA	CB-CA-C	-5.64	110.06	116.54
30	DC	24	LYS	N-CA-C	5.64	118.49	109.02
33	DF	107	VAL	N-CA-C	5.63	117.02	108.80
44	DQ	102	GLN	N-CA-C	5.63	117.17	110.19
61	c2	112	ALA	N-CA-C	5.63	116.33	108.00
16	v	90	ASN	N-CA-C	5.63	119.32	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
49	s0	141	ILE	N-CA-C	5.62	114.07	107.77
55	s6	129	VAL	N-CA-C	5.62	114.68	108.05
59	L	54	TYR	CB-CA-C	-5.61	109.59	117.23
57	s8	84	HIS	CA-C-N	5.61	125.14	119.19
57	s8	84	HIS	C-N-CA	5.61	125.14	119.19
29	DB	61	LYS	N-CA-C	-5.58	105.09	111.07
58	K	143	ILE	N-CA-C	5.58	112.64	107.56
53	s4	41	SER	N-CA-C	5.58	117.73	109.69
1	AR	637	C	C4'-C3'-O3'	5.58	117.77	109.40
76	d7	27	GLY	CA-C-N	5.57	125.75	119.90
76	d7	27	GLY	C-N-CA	5.57	125.75	119.90
29	AA	59	ALA	CB-CA-C	-5.57	110.17	116.63
36	AH	73	SER	N-CA-C	5.56	117.14	111.14
33	DF	64	VAL	N-CA-C	5.56	116.29	110.62
17	CQ	162	VAL	CB-CA-C	-5.55	104.59	111.70
22	2	128	LEU	N-CA-C	5.55	119.75	112.92
11	q	20	ILE	N-CA-C	5.55	116.56	107.24
26	CY	94	ARG	N-CA-C	5.54	117.73	109.59
71	d2	94	LEU	CA-C-N	5.53	125.19	119.05
71	d2	94	LEU	C-N-CA	5.53	125.19	119.05
46	i	169	ALA	N-CA-C	5.52	115.83	108.38
6	l	57	GLY	N-CA-C	-5.51	108.13	114.69
56	s7	68	ALA	N-CA-C	-5.51	106.60	113.38
6	l	190	GLY	N-CA-C	5.50	122.49	112.27
74	d5	56	THR	N-CA-C	-5.49	104.94	111.69
6	l	83	GLY	N-CA-C	-5.49	107.78	114.92
38	AJ	63	ASN	N-CA-C	5.49	118.09	111.40
23	CW	20	SER	N-CA-C	5.49	117.69	111.11
14	t	55	ARG	CA-C-N	5.48	125.68	120.31
14	t	55	ARG	C-N-CA	5.48	125.68	120.31
70	d1	13	VAL	CA-C-N	5.47	125.42	119.78
70	d1	13	VAL	C-N-CA	5.47	125.42	119.78
33	AE	64	VAL	N-CA-C	5.47	116.24	110.72
5	CE	316	GLU	N-CA-C	5.47	120.11	113.38
7	CG	254	LYS	CA-C-N	5.46	125.67	120.31
7	CG	254	LYS	C-N-CA	5.46	125.67	120.31
4	CD	15	ILE	N-CA-C	-5.46	106.16	112.98
30	AB	121	VAL	CA-C-N	5.45	125.72	119.83
30	AB	121	VAL	C-N-CA	5.45	125.72	119.83
7	m	37	VAL	N-CA-C	5.45	115.90	110.23
81	h	29	GLN	CA-C-N	5.43	125.15	119.82
81	h	29	GLN	C-N-CA	5.43	125.15	119.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
51	s2	175	GLY	N-CA-C	-5.43	108.61	115.08
82	c7	20	TYR	N-CA-C	5.43	119.60	112.92
24	CX	135	VAL	CA-C-N	-5.42	116.46	123.19
24	CX	135	VAL	C-N-CA	-5.42	116.46	123.19
14	CN	55	ARG	CA-C-N	5.42	125.62	120.31
14	CN	55	ARG	C-N-CA	5.42	125.62	120.31
5	k	306	THR	CA-C-N	5.40	125.70	119.92
5	k	306	THR	C-N-CA	5.40	125.70	119.92
6	CF	180	LYS	N-CA-C	-5.40	105.30	111.07
11	q	41	ILE	N-CA-C	5.40	115.88	111.62
52	s3	221	SER	CB-CA-C	-5.40	109.37	115.79
66	S	85	VAL	C-N-CD	-5.39	102.89	125.00
30	DC	79	TRP	N-CA-C	-5.39	106.76	113.38
19	CS	170	ARG	N-CA-C	-5.38	103.42	110.53
40	AL	33	LYS	CB-CA-C	-5.38	110.35	116.54
60	c1	135	VAL	N-CA-C	5.38	115.52	107.51
49	s0	9	LEU	N-CA-C	5.38	116.82	111.07
81	sR	281	TYR	CB-CA-C	-5.38	108.81	116.34
9	o	177	GLY	N-CA-C	-5.37	100.45	113.18
21	0	23	LYS	N-CA-C	5.37	119.70	113.20
67	T	81	ILE	CA-C-N	5.37	126.55	119.84
67	T	81	ILE	C-N-CA	5.37	126.55	119.84
83	e1	123	ASN	CA-C-N	5.37	125.69	119.47
83	e1	123	ASN	C-N-CA	5.37	125.69	119.47
40	AL	19	ASP	N-CA-C	-5.36	106.51	113.16
6	l	73	ARG	N-CA-C	5.36	119.90	112.45
35	AG	18	ARG	N-CA-C	5.36	116.99	108.79
39	DL	57	HIS	N-CA-C	5.35	119.91	113.17
56	I	62	VAL	CA-C-N	5.34	125.66	119.47
56	I	62	VAL	C-N-CA	5.34	125.66	119.47
74	a	54	VAL	CB-CA-C	-5.34	108.69	114.35
9	CI	220	PHE	N-CA-C	5.33	118.80	112.72
53	F	214	LEU	N-CA-C	-5.33	105.61	113.61
75	d6	64	LEU	CA-C-N	5.33	125.53	120.31
75	d6	64	LEU	C-N-CA	5.33	125.53	120.31
20	CT	165	LYS	N-CA-C	-5.33	102.86	110.59
7	CG	44	TYR	CB-CA-C	-5.33	109.99	117.23
4	j	15	ILE	N-CA-C	-5.32	106.68	112.80
7	CG	67	SER	N-CA-C	5.32	117.09	108.26
49	s0	103	THR	CA-C-N	5.32	125.33	119.90
49	s0	103	THR	C-N-CA	5.32	125.33	119.90
5	CE	88	GLY	N-CA-C	5.32	119.39	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
28	9	22	ALA	CA-C-N	5.31	125.51	120.31
28	9	22	ALA	C-N-CA	5.31	125.51	120.31
7	CG	115	LEU	N-CA-C	-5.30	106.84	113.15
5	CE	82	PRO	CA-C-N	5.30	125.60	119.93
5	CE	82	PRO	C-N-CA	5.30	125.60	119.93
9	CI	152	GLY	N-CA-C	5.30	119.24	110.97
5	CE	173	GLN	N-CA-C	5.29	116.73	110.97
51	D	248	SER	CB-CA-C	-5.29	108.94	116.34
80	g	106	TYR	N-CA-C	-5.29	99.49	108.26
9	o	130	ILE	N-CA-C	5.28	117.25	112.29
16	v	201	ARG	N-CA-C	-5.28	105.44	111.14
64	c5	135	THR	CB-CA-C	-5.28	108.92	115.89
30	DC	75	LEU	N-CA-C	-5.27	106.11	112.54
59	L	63	TYR	N-CA-C	5.27	120.36	113.30
13	CM	65	ILE	N-CA-C	5.27	115.37	110.42
21	0	4	PHE	N-CA-C	5.27	118.27	110.48
49	s0	3	LEU	CA-C-N	5.27	125.55	119.92
49	s0	3	LEU	C-N-CA	5.27	125.55	119.92
7	m	191	ASP	CA-C-N	5.25	124.87	119.56
7	m	191	ASP	C-N-CA	5.25	124.87	119.56
10	CJ	35	GLY	N-CA-C	5.25	125.62	113.18
63	c4	48	VAL	CA-C-N	-5.25	115.37	123.14
63	c4	48	VAL	C-N-CA	-5.25	115.37	123.14
28	9	82	VAL	CA-C-N	-5.25	115.01	122.41
28	9	82	VAL	C-N-CA	-5.25	115.01	122.41
28	DA	22	ALA	CA-C-N	5.24	125.71	120.52
28	DA	22	ALA	C-N-CA	5.24	125.71	120.52
40	AL	70	PRO	CA-C-N	5.24	125.29	119.32
40	AL	70	PRO	C-N-CA	5.24	125.29	119.32
67	c8	81	ILE	CA-C-N	5.24	125.14	119.85
67	c8	81	ILE	C-N-CA	5.24	125.14	119.85
38	AJ	79	SER	N-CA-C	5.24	116.61	109.18
46	i	173	GLU	N-CA-C	5.24	115.15	108.24
49	B	69	ASN	CA-C-N	5.24	124.95	119.82
49	B	69	ASN	C-N-CA	5.24	124.95	119.82
65	R	113	ASP	CA-C-N	5.24	128.66	121.33
65	R	113	ASP	C-N-CA	5.24	128.66	121.33
50	s1	205	PHE	CA-C-N	5.23	124.68	119.24
50	s1	205	PHE	C-N-CA	5.23	124.68	119.24
17	CQ	109	PRO	CA-C-N	5.23	125.76	120.38
17	CQ	109	PRO	C-N-CA	5.23	125.76	120.38
20	CT	159	ALA	N-CA-C	-5.22	99.68	110.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
22	2	152	ALA	CA-C-N	5.22	125.22	119.90
22	2	152	ALA	C-N-CA	5.22	125.22	119.90
32	DE	48	THR	CA-C-N	5.21	125.22	119.90
32	DE	48	THR	C-N-CA	5.21	125.22	119.90
79	e0	61	SER	CB-CA-C	-5.21	109.59	115.79
6	l	192	GLY	N-CA-C	-5.21	107.17	115.66
30	DC	46	ASP	N-CA-C	-5.21	102.68	110.23
6	l	62	ALA	N-CA-C	5.20	117.57	110.24
4	j	193	ARG	CA-C-N	-5.20	115.08	122.41
4	j	193	ARG	C-N-CA	-5.20	115.08	122.41
53	F	228	ILE	N-CA-C	5.19	117.88	112.90
19	CS	162	ALA	CA-C-N	5.18	125.18	119.89
19	CS	162	ALA	C-N-CA	5.18	125.18	119.89
12	CL	217	PHE	N-CA-C	5.18	116.97	110.91
69	V	70	THR	CA-C-N	5.18	124.50	118.85
69	V	70	THR	C-N-CA	5.18	124.50	118.85
16	v	83	LYS	CA-C-N	5.18	125.22	119.32
16	v	83	LYS	C-N-CA	5.18	125.22	119.32
23	CW	40	HIS	N-CA-C	5.18	119.69	113.17
71	X	66	ASN	N-CA-C	5.17	116.35	108.12
9	CI	115	THR	N-CA-C	5.17	116.15	108.86
19	CS	175	ALA	N-CA-C	5.17	117.01	108.48
26	7	45	ASN	CA-C-N	5.16	125.21	119.32
26	7	45	ASN	C-N-CA	5.16	125.21	119.32
59	L	27	PHE	N-CA-C	-5.15	102.53	109.95
12	CL	144	ASN	N-CA-C	5.14	119.65	113.17
28	9	126	LEU	CB-CA-C	-5.14	109.11	115.89
65	c6	63	ILE	N-CA-C	5.13	115.66	108.17
61	c2	112	ALA	CB-CA-C	-5.12	109.17	116.34
73	d4	23	PHE	N-CA-C	5.12	116.62	108.79
50	C	159	SER	N-CA-C	-5.11	105.79	112.23
62	O	29	SER	N-CA-C	5.11	115.08	107.88
56	I	64	VAL	N-CA-C	5.11	119.91	108.88
53	s4	229	GLY	N-CA-C	5.10	117.92	110.63
1	1	282	G	C2'-C3'-O3'	5.10	121.35	113.70
17	CQ	45	GLY	CA-C-O	-5.10	118.71	122.23
53	s4	205	PHE	N-CA-C	5.09	116.87	110.91
16	v	136	ASP	CA-C-N	5.09	124.70	119.56
16	v	136	ASP	C-N-CA	5.09	124.70	119.56
30	AB	24	LYS	CB-CA-C	-5.08	109.74	115.79
58	s9	143	ILE	CA-C-N	5.08	124.75	119.56
58	s9	143	ILE	C-N-CA	5.08	124.75	119.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	G	50	GLU	CB-CA-C	-5.08	110.73	116.63
22	CV	20	ARG	N-CA-C	-5.06	106.68	112.86
18	x	24	VAL	N-CA-C	5.06	115.56	110.05
62	c3	71	ILE	N-CA-C	5.06	115.78	110.62
61	N	102	GLY	N-CA-C	5.05	125.16	113.18
18	x	36	ILE	N-CA-C	-5.05	107.22	111.56
54	G	127	GLN	CB-CA-C	-5.05	109.78	115.79
64	c5	14	THR	N-CA-C	5.05	116.82	110.91
58	s9	124	HIS	N-CA-C	-5.04	105.47	110.97
9	CI	93	ASN	N-CA-C	5.04	118.43	109.96
63	c4	56	SER	CA-C-N	5.04	124.82	119.28
63	c4	56	SER	C-N-CA	5.04	124.82	119.28
1	AR	637	C	P-O3'-C3'	5.03	127.74	120.20
48	sM	65	THR	CB-CA-C	-5.03	110.40	117.23
72	Y	139	LYS	N-CA-C	5.03	117.14	111.11
74	a	73	GLY	N-CA-C	5.02	118.96	112.83
18	x	127	ARG	N-CA-C	-5.02	101.11	108.99
6	CF	84	ARG	N-CA-C	-5.02	105.91	112.23
7	CG	259	LYS	CA-C-N	5.01	131.10	121.54
7	CG	259	LYS	C-N-CA	5.01	131.10	121.54
18	CR	66	SER	N-CA-CB	-5.00	109.10	114.10
58	K	99	LEU	CB-CA-C	-5.00	109.84	115.79

There are no chirality outliers.

All (51) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
22	2	122	GLN	Peptide
26	7	94	ARG	Peptide
28	9	83	ASP	Peptide
30	AB	46	ASP	Peptide
31	AC	20	GLY	Peptide
49	B	65	ALA	Peptide
7	CG	259	LYS	Peptide
10	CJ	34	PHE	Peptide
12	CL	188	GLY	Peptide
17	CQ	110	PRO	Peptide
20	CT	129	GLY	Peptide
26	CY	80	ARG	Peptide
26	CY	97	LYS	Peptide
51	D	106	ASP	Peptide
28	DA	83	ASP	Peptide

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Mol	Chain	Res	Type	Group
29	DB	3	LYS	Peptide
52	E	219	ALA	Peptide
53	F	213	SER	Peptide
54	G	44	ASN	Peptide
54	G	65	ARG	Peptide
56	I	31	SER	Peptide
56	I	64	VAL	Peptide
58	K	92	LYS	Peptide
64	Q	124	THR	Peptide
65	R	113	ASP	Peptide
65	R	40	GLU	Peptide
66	S	85	VAL	Peptide
66	S	86	PRO	Peptide
74	a	94	LYS	Peptide
61	c2	101	ALA	Peptide
61	c2	108	ARG	Peptide
61	c2	109	GLU	Peptide
61	c2	53	THR	Peptide
64	c5	52	LYS	Peptide
65	c6	40	GLU	Peptide
82	c7	103	ASP	Peptide
73	d4	29	HIS	Peptide
73	d4	51	GLU	Peptide
80	g	105	TYR	Peptide
80	g	110	ALA	Peptide
50	s1	152	ARG	Peptide
51	s2	106	ASP	Peptide
52	s3	219	ALA	Peptide
54	s5	44	ASN	Peptide
56	s7	130	VAL	Peptide
56	s7	62	VAL	Peptide
56	s7	63	PRO	Peptide
56	s7	64	VAL	Peptide
48	sM	79	SER	Peptide
15	u	28	SER	Peptide
17	w	110	PRO	Peptide

5.2 Too-close contacts

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

the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	1	67355	0	33846	1290	0
1	AR	67355	0	33843	1277	0
2	3	2579	0	1303	51	0
2	AS	2579	0	1304	50	0
3	4	3353	0	1695	71	0
3	AT	3353	0	1695	64	0
4	CD	1914	0	1981	77	0
4	j	1914	0	1981	84	0
5	CE	3075	0	3142	137	0
5	k	3075	0	3142	153	0
6	CF	2748	0	2859	94	0
6	l	2748	0	2859	124	0
7	CG	2375	0	2325	80	0
7	m	2375	0	2325	82	0
8	CH	1239	0	1326	40	0
8	n	1239	0	1326	29	0
9	CI	1784	0	1862	61	0
9	o	1784	0	1862	66	0
10	CJ	1804	0	1877	52	0
10	p	1804	0	1877	54	0
11	CK	1518	0	1587	55	0
11	q	1518	0	1587	66	0
12	CL	1705	0	1736	63	0
12	r	1705	0	1736	58	0
13	CM	1353	0	1383	38	0
13	s	1353	0	1383	49	0
14	CN	1543	0	1608	60	0
14	t	1543	0	1608	67	0
15	CO	1053	0	1149	41	0
15	u	1053	0	1149	58	0
16	CP	1720	0	1779	53	0
16	v	1720	0	1778	68	0
17	CQ	1555	0	1659	56	0
17	w	1555	0	1659	45	0
18	CR	1420	0	1437	45	0
18	x	1420	0	1437	51	0
19	CS	1441	0	1543	55	0
19	y	1441	0	1543	59	0
20	CT	1521	0	1617	57	0
20	z	1521	0	1617	52	0
21	0	1445	0	1487	49	0
21	CU	1445	0	1487	53	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	2	1276	0	1323	54	0
22	CV	1276	0	1323	63	0
23	5	796	0	812	24	0
23	CW	796	0	812	21	0
24	CX	1003	0	1048	37	0
24	l2	1003	0	1048	39	0
25	6	37990	0	19115	773	0
25	A	37948	0	19093	818	0
26	7	699	0	640	11	0
26	CY	699	0	640	14	0
27	8	964	0	1025	34	0
27	CZ	964	0	1025	36	0
28	9	993	0	1081	26	0
28	DA	993	0	1081	36	0
29	AA	1092	0	1155	49	0
29	DB	1092	0	1155	44	0
30	AB	1173	0	1214	64	0
30	DC	1173	0	1215	53	0
31	AC	462	0	491	10	0
31	DD	462	0	491	19	0
32	AD	743	0	797	26	0
32	DE	743	0	797	26	0
33	AE	876	0	912	28	0
33	DF	876	0	912	19	0
34	AF	1020	0	1090	22	0
34	DG	1020	0	1090	38	0
35	AG	850	0	880	27	0
35	DH	850	0	880	30	0
36	AH	880	0	945	27	0
36	DI	880	0	945	37	0
37	AI	969	0	1078	45	0
37	DJ	969	0	1078	40	0
38	AJ	771	0	849	40	0
38	DK	771	0	849	34	0
39	AK	681	0	683	25	0
39	DL	681	0	683	27	0
40	AL	612	0	682	12	0
40	DM	612	0	682	20	0
41	AM	436	0	475	21	0
41	DN	436	0	475	17	0
42	AN	417	0	455	11	0
42	DO	417	0	455	12	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	AO	233	0	284	8	0
43	DP	233	0	284	11	0
44	AP	847	0	917	23	0
44	DQ	847	0	918	27	0
45	AQ	694	0	736	18	0
45	DR	694	0	735	24	0
46	i	1104	0	996	32	0
47	p0	1077	0	1041	30	0
48	sM	680	0	540	24	0
49	B	1577	0	1567	67	0
49	s0	1583	0	1578	75	0
50	C	1709	0	1784	73	0
50	s1	1722	0	1793	64	0
51	D	1635	0	1723	72	0
51	s2	1635	0	1723	56	0
52	E	1734	0	1817	55	0
52	s3	1734	0	1817	55	0
53	F	2068	0	2154	71	0
53	s4	2068	0	2154	84	0
54	G	1609	0	1675	62	0
54	s5	1609	0	1675	57	0
55	H	1799	0	1879	73	0
55	s6	1755	0	1846	43	0
56	I	1481	0	1572	60	0
56	s7	1491	0	1578	41	0
57	J	1489	0	1525	60	0
57	s8	1489	0	1525	50	0
58	K	1494	0	1573	51	0
58	s9	1494	0	1573	62	0
59	L	772	0	727	27	0
59	c0	761	0	697	27	0
60	M	1213	0	1257	40	0
60	c1	1168	0	1233	41	0
61	N	890	0	887	31	0
61	c2	890	0	887	27	0
62	O	1192	0	1255	41	0
62	c3	1192	0	1255	41	0
63	P	891	0	883	45	0
63	c4	949	0	985	34	0
64	Q	977	0	1002	35	0
64	c5	1039	0	1050	44	0
65	R	1105	0	1166	42	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
65	c6	1111	0	1171	50	0
66	S	926	0	930	46	0
67	T	1192	0	1222	55	0
67	c8	1192	0	1222	55	0
68	U	1112	0	1124	45	0
68	c9	1112	0	1124	40	0
69	V	855	0	917	44	0
69	d0	882	0	939	43	0
70	W	684	0	672	28	0
70	d1	684	0	672	35	0
71	X	1021	0	1060	38	0
71	d2	1021	0	1060	43	0
72	Y	1121	0	1196	49	0
72	d3	1121	0	1196	51	0
73	Z	1073	0	1132	35	0
73	d4	1073	0	1132	51	0
74	a	563	0	603	29	0
74	d5	558	0	598	26	0
75	b	769	0	815	44	0
75	d6	769	0	814	34	0
76	c	610	0	633	12	0
76	d7	610	0	633	21	0
77	d	497	0	535	15	0
77	d8	497	0	535	23	0
78	d9	442	0	428	16	0
78	e	442	0	429	23	0
79	e0	491	0	542	23	0
79	f	475	0	525	11	0
80	g	566	0	602	25	0
81	h	2437	0	2386	65	0
81	sR	2442	0	2392	76	0
82	c7	906	0	909	43	0
83	e1	397	0	396	14	0
84	1	2317	0	0	235	0
84	2	7	0	0	0	0
84	3	56	0	0	5	0
84	4	84	0	0	7	0
84	6	1099	0	0	110	0
84	A	994	0	0	120	0
84	AC	7	0	0	1	0
84	AE	7	0	0	4	0
84	AG	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
84	AK	14	0	0	2	0
84	AP	7	0	0	3	0
84	AR	2373	0	0	242	0
84	AS	70	0	0	7	0
84	AT	133	0	0	18	0
84	CE	14	0	0	2	0
84	CF	14	0	0	1	0
84	CG	21	0	0	4	0
84	CK	7	0	0	1	0
84	CL	14	0	0	2	0
84	CM	7	0	0	1	0
84	CO	7	0	0	0	0
84	CP	7	0	0	0	0
84	CV	7	0	0	1	0
84	CX	7	0	0	0	0
84	CZ	7	0	0	0	0
84	DD	7	0	0	0	0
84	DG	7	0	0	0	0
84	DH	7	0	0	0	0
84	DI	7	0	0	1	0
84	DL	14	0	0	2	0
84	H	7	0	0	0	0
84	J	7	0	0	0	0
84	M	7	0	0	2	0
84	O	7	0	0	1	0
84	Q	7	0	0	2	0
84	T	7	0	0	1	0
84	c3	7	0	0	2	0
84	c5	7	0	0	3	0
84	c8	7	0	0	0	0
84	d9	7	0	0	0	0
84	e	7	0	0	2	0
84	h	7	0	0	0	0
84	k	14	0	0	3	0
84	l	7	0	0	2	0
84	r	7	0	0	1	0
84	s8	7	0	0	0	0
84	sR	7	0	0	0	0
84	v	7	0	0	1	0
84	x	14	0	0	3	0
84	y	7	0	0	0	0
84	z	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	1	490	0	0	0	0
85	3	12	0	0	0	0
85	4	21	0	0	0	0
85	6	141	0	0	0	0
85	9	1	0	0	0	0
85	A	111	0	0	0	0
85	AB	4	0	0	0	0
85	AF	2	0	0	0	0
85	AH	1	0	0	0	0
85	AK	1	0	0	0	0
85	AP	1	0	0	0	0
85	AR	504	0	0	0	0
85	AS	20	0	0	0	0
85	AT	12	0	0	0	0
85	CD	2	0	0	0	0
85	CE	4	0	0	0	0
85	CF	1	0	0	0	0
85	CI	1	0	0	0	0
85	CK	1	0	0	0	0
85	CO	2	0	0	0	0
85	CP	2	0	0	0	0
85	CQ	4	0	0	0	0
85	CR	6	0	0	0	0
85	CU	2	0	0	0	0
85	CX	2	0	0	0	0
85	D	1	0	0	0	0
85	DA	1	0	0	0	0
85	DC	4	0	0	0	0
85	DD	1	0	0	0	0
85	DE	1	0	0	0	0
85	DF	1	0	0	0	0
85	DG	1	0	0	0	0
85	DH	2	0	0	0	0
85	DI	1	0	0	0	0
85	DO	1	0	0	0	0
85	DP	1	0	0	0	0
85	DR	2	0	0	0	0
85	F	1	0	0	0	0
85	Y	1	0	0	0	0
85	b	1	0	0	0	0
85	c6	1	0	0	0	0
85	c9	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
85	d3	3	0	0	0	0
85	d5	1	0	0	0	0
85	d6	1	0	0	0	0
85	d9	1	0	0	0	0
85	i	1	0	0	0	0
85	j	2	0	0	0	0
85	k	2	0	0	0	0
85	l	2	0	0	0	0
85	l2	2	0	0	0	0
85	o	3	0	0	0	0
85	r	1	0	0	0	0
85	s	1	0	0	0	0
85	s1	1	0	0	0	0
85	s2	1	0	0	0	0
85	s6	1	0	0	0	0
85	s8	1	0	0	0	0
85	sM	1	0	0	0	0
85	t	2	0	0	0	0
85	v	1	0	0	0	0
85	w	1	0	0	0	0
85	x	5	0	0	0	0
85	z	2	0	0	0	0
86	1	20	0	0	4	0
86	AR	20	0	0	3	0
87	AK	1	0	0	0	0
87	AN	1	0	0	0	0
87	AP	1	0	0	0	0
87	AQ	1	0	0	0	0
87	DL	1	0	0	0	0
87	DO	1	0	0	0	0
87	DQ	1	0	0	0	0
87	DR	1	0	0	0	0
87	b	1	0	0	0	0
87	c	1	0	0	0	0
87	d6	1	0	0	0	0
87	d7	1	0	0	0	0
87	d9	1	0	0	0	0
87	e	1	0	0	0	0
87	e1	1	0	0	0	0
87	g	1	0	0	0	0
All	All	409590	0	296688	9415	0

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

hydrogen atoms). The all-atom clashscore for this structure is 14.

All (9415) 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)
25:6:976:G:H1	25:6:1023:A:HO2'	1.10	1.00
25:6:885:G:H21	63:c4:123:SER:HB2	1.27	0.96
1:1:1171:G:N7	84:1:3496:OHX:N2	2.13	0.96
25:6:1726:G:N7	84:6:2005:OHX:N2	2.12	0.95
1:AR:1481:A:O2'	1:AR:1858:A:N3	2.00	0.95
25:6:1588:G:H1	25:6:1608:U:H3	1.15	0.95
1:AR:1878:G:OP1	84:AR:3457:OHX:N5	2.01	0.94
1:1:640:U:OP1	30:AB:21:ARG:NH2	2.01	0.94
52:s3:16:VAL:HG11	78:d9:22:ARG:HH11	1.33	0.93
1:1:2836:C:H5	1:1:2852:C:H42	1.16	0.93
15:u:48:GLY:HA3	15:u:53:VAL:HG13	1.51	0.93
1:1:3182:G:OP1	17:w:160:ARG:NH2	2.01	0.93
41:AM:5:LYS:HE3	41:AM:13:MET:HE1	1.50	0.92
5:k:41:VAL:HA	5:k:185:GLY:HA3	1.47	0.92
37:AI:85:THR:HG22	37:AI:88:LEU:H	1.33	0.92
25:A:1559:A:H5''	67:T:135:GLY:HA3	1.51	0.92
25:A:1542:G:N2	25:A:1569:A:OP2	2.04	0.91
56:I:11:GLN:HG3	56:I:13:PRO:HD2	1.54	0.90
1:AR:3334:U:OP2	84:AR:3731:OHX:N6	2.05	0.90
6:l:283:THR:HG22	6:l:285:ASP:H	1.37	0.89
1:1:838:G:O6	45:AQ:4:ARG:NH2	2.06	0.89
15:CO:48:GLY:HA3	15:CO:53:VAL:HG13	1.53	0.89
7:CG:40:HIS:HD2	7:CG:42:ALA:H	1.21	0.89
25:6:1034:C:HO2'	71:d2:2:THR:N	1.72	0.88
5:CE:41:VAL:HA	5:CE:185:GLY:HA3	1.54	0.88
25:6:158:U:O2'	25:6:160:C:OP2	1.92	0.88
53:F:79:ASP:HB3	53:F:82:TYR:HB2	1.53	0.88
1:1:1170:A:OP2	84:1:3496:OHX:N3	2.06	0.87
53:s4:125:LYS:H	53:s4:142:HIS:HD2	1.17	0.87
51:D:38:VAL:HG13	51:D:39:THR:HG23	1.53	0.87
63:P:85:ALA:H	63:P:119:THR:HB	1.36	0.87
7:m:60:ILE:HB	7:m:80:SER:HB3	1.54	0.87
76:d7:50:ALA:H	76:d7:71:ALA:HB2	1.40	0.87
1:1:1427:U:OP2	30:AB:4:ARG:NH2	2.08	0.87
11:q:112:ILE:HD11	11:q:134:ILE:HD13	1.55	0.86
57:J:39:GLY:HA2	57:J:61:GLU:HB3	1.55	0.86
25:A:542:A:H8	25:A:543:C:H5'	1.40	0.86
25:6:753:A:N7	53:s4:187:ARG:NH2	2.23	0.86

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:3272:C:OP2	8:CH:78:ARG:NH1	2.07	0.86
22:2:51:GLY:HA3	22:2:92:ARG:HG3	1.58	0.86
36:DI:41:ARG:HG2	36:DI:56:THR:HG21	1.58	0.86
19:y:133:LYS:HB2	19:y:135:GLN:HE22	1.40	0.85
1:1:624:G:OP2	84:1:3666:OHX:N3	2.09	0.85
1:AR:31:C:OP2	16:CP:188:ARG:NH2	2.09	0.85
1:AR:640:U:OP1	30:DC:21:ARG:NH2	2.09	0.85
13:s:133:ARG:NH1	13:s:152:HIS:O	2.10	0.85
25:A:491:C:H42	25:A:496:G:H1	1.24	0.85
25:A:1202:A:OP1	84:A:1988:OHX:N1	2.09	0.85
5:CE:232:ARG:NH1	5:CE:269:GLN:O	2.08	0.84
1:1:76:G:O2'	14:t:100:ARG:NH1	2.10	0.84
1:1:2433:U:H1'	16:v:125:SER:HB3	1.58	0.84
6:l:204:GLY:O	6:l:246:ARG:NH1	2.11	0.84
1:AR:617:G:H4'	18:CR:171:ARG:HH21	1.41	0.84
24:CX:87:ARG:HH22	24:CX:137:VAL:HG22	1.41	0.84
1:AR:1630:U:OP1	29:DB:67:LYS:NZ	2.11	0.83
13:s:49:LYS:HB3	13:s:62:ASN:HA	1.60	0.83
1:1:585:A:H5''	35:AG:70:LYS:HE2	1.59	0.83
1:1:2108:C:H1'	1:1:3344:A:H8	1.42	0.83
6:CF:203:ARG:NH1	6:CF:226:GLU:OE2	2.11	0.83
50:s1:83:LYS:HE3	50:s1:106:THR:HG22	1.59	0.83
1:AR:2177:G:OP2	4:CD:128:ARG:NH1	2.10	0.83
19:CS:86:THR:HG22	19:CS:105:ARG:HB2	1.61	0.83
5:k:232:ARG:NH1	5:k:269:GLN:O	2.12	0.83
15:u:24:LYS:NZ	15:u:61:GLY:O	2.11	0.83
25:6:991:G:OP2	84:6:2030:OHX:N2	2.12	0.83
1:AR:2310:U:OP1	84:AR:3697:OHX:N2	2.11	0.83
7:CG:297:GLN:O	84:CG:302:OHX:N5	2.12	0.83
12:CL:174:THR:HG23	12:CL:176:LEU:H	1.43	0.83
11:q:49:ASN:O	11:q:51:GLN:N	2.10	0.83
25:6:329:G:H5''	57:s8:98:LYS:HB3	1.60	0.83
69:d0:102:ARG:HE	69:d0:106:ILE:HD12	1.43	0.83
1:AR:620:U:H2'	1:AR:621:A:H4'	1.61	0.82
1:AR:2836:C:H5	1:AR:2852:C:H42	1.26	0.82
28:DA:57:LEU:HD23	28:DA:67:GLU:HG2	1.59	0.82
1:AR:3376:A:OP2	84:AR:3435:OHX:N4	2.12	0.82
25:6:1417:A:OP1	84:6:1942:OHX:N4	2.13	0.82
1:1:2392:C:O2'	5:k:266:ARG:NH2	2.12	0.82
25:6:1203:A:OP2	84:6:1986:OHX:N1	2.12	0.82
47:p0:198:PRO:HG2	47:p0:201:ILE:H	1.43	0.82

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:72:C:H5'	14:CN:63:VAL:HG22	1.61	0.82
25:A:237:C:H5''	25:A:238:U:H5'	1.60	0.82
38:DK:4:LYS:HD3	38:DK:14:GLY:HA3	1.61	0.82
25:A:355:G:OP2	84:A:1914:OHX:N4	2.13	0.82
25:6:57:G:OP2	73:d4:116:LYS:NZ	2.13	0.81
47:p0:91:GLU:HG2	47:p0:92:PRO:HD2	1.61	0.81
1:1:3214:U:OP2	15:u:128:ARG:NH2	2.14	0.81
5:k:25:ILE:HD13	5:k:25:ILE:H	1.46	0.81
30:AB:47:LYS:O	30:AB:49:HIS:N	2.13	0.81
1:AR:1015:U:O2'	1:AR:1017:C:OP2	1.97	0.81
84:1:3496:OHX:N3	9:o:217:PRO:O	2.13	0.81
1:1:1320:C:O2	21:0:115:ARG:NH2	2.14	0.81
36:AH:41:ARG:HG2	36:AH:56:THR:HG21	1.60	0.81
51:s2:144:TRP:O	71:d2:98:GLN:NE2	2.14	0.81
1:1:3199:G:H5''	15:u:6:ILE:HG21	1.62	0.81
1:AR:1722:U:OP1	20:CT:100:ARG:NH1	2.13	0.81
51:s2:163:GLY:O	51:s2:165:VAL:N	2.13	0.81
25:6:329:G:N7	84:6:2013:OHX:N5	2.29	0.81
4:j:20:THR:HA	4:j:23:ARG:HD2	1.60	0.80
15:CO:55:ARG:NH2	15:CO:76:ALA:O	2.13	0.80
70:W:15:ARG:NH1	70:W:33:GLN:OE1	2.13	0.80
65:c6:12:LYS:HE2	65:c6:17:THR:HB	1.64	0.80
10:p:163:VAL:HG23	10:p:166:LEU:HD12	1.62	0.80
39:AK:88:ALA:O	84:AK:102:OHX:N1	2.14	0.80
1:AR:1431:G:OP2	30:DC:12:ARG:NH1	2.14	0.80
5:CE:25:ILE:H	5:CE:25:ILE:HD13	1.47	0.80
5:CE:296:THR:HG22	5:CE:298:PHE:H	1.47	0.80
7:CG:68:THR:HG22	7:CG:70:THR:H	1.46	0.80
22:CV:51:GLY:HA3	22:CV:92:ARG:HG3	1.63	0.80
1:1:676:G:HO2'	1:1:678:G:HO2'	1.18	0.80
1:AR:2818:U:H6	1:AR:2818:U:H5'	1.47	0.80
56:I:9:LEU:HD21	56:I:17:GLU:HB3	1.63	0.80
25:6:578:U:O2	84:6:2012:OHX:N3	2.15	0.80
71:X:15:ASN:ND2	71:X:72:CYS:SG	2.54	0.80
1:1:31:C:OP2	16:v:188:ARG:NH2	2.15	0.80
12:r:174:THR:HG23	12:r:176:LEU:H	1.47	0.80
69:d0:20:ILE:HD12	69:d0:100:VAL:HG21	1.64	0.80
25:6:853:G:N7	20:CT:173:ARG:NH2	2.30	0.79
1:AR:1543:G:O6	84:AR:3700:OHX:N1	2.15	0.79
1:1:1334:U:O2'	9:o:151:ARG:NH2	2.15	0.79
46:i:168:GLU:O	61:N:125:ASN:ND2	2.16	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:86:HIS:HB3	12:CL:139:ARG:HG2	1.62	0.79
1:AR:2533:G:O6	1:AR:2546:C:N4	2.16	0.79
25:A:741:C:O2	56:I:107:ARG:NH1	2.15	0.79
1:1:1170:A:OP2	84:1:3496:OHX:N5	2.16	0.79
1:AR:1565:G:N2	1:AR:1574:C:N3	2.29	0.79
6:CF:122:THR:HG22	6:CF:235:LEU:HB2	1.64	0.79
75:b:75:VAL:O	75:b:78:ALA:N	2.15	0.79
25:6:1552:U:OP2	64:c5:43:ARG:NH2	2.15	0.79
41:AM:10:LYS:HA	41:AM:13:MET:HE3	1.65	0.79
29:DB:46:ILE:HD13	29:DB:68:ILE:HG23	1.65	0.79
38:DK:35:ASN:HA	38:DK:38:LYS:HB2	1.62	0.79
51:D:137:ILE:HG12	51:D:138:PRO:HD2	1.64	0.79
81:sR:52:GLN:HG2	81:sR:53:LYS:HG3	1.65	0.79
25:6:448:C:OP2	53:s4:49:ARG:NH1	2.11	0.79
1:AR:3194:C:O2	1:AR:3197:G:N2	2.16	0.79
25:A:1672:G:N7	84:A:1922:OHX:N5	2.31	0.79
69:d0:71:PRO:O	69:d0:72:ASN:ND2	2.16	0.79
1:AR:3230:G:H4'	15:CO:132:LYS:HD3	1.63	0.79
2:AS:44:C:H4'	7:CG:152:ARG:HG3	1.64	0.79
5:CE:252:ILE:HG12	5:CE:266:ARG:HH21	1.48	0.79
1:1:410:U:O4	84:1:3594:OHX:N5	2.16	0.79
1:1:978:G:O2'	1:1:979:U:O2	2.01	0.79
1:1:1538:G:OP2	84:1:3669:OHX:N1	2.16	0.79
25:6:1390:U:OP2	82:c7:49:LYS:NZ	2.14	0.79
35:DH:14:LEU:HD11	35:DH:31:LYS:HB2	1.64	0.79
25:6:161:U:OP2	55:s6:87:ARG:NH2	2.16	0.79
25:6:264:G:N7	84:6:1914:OHX:N6	2.31	0.79
1:AR:2703:A:OP2	7:CG:23:ARG:NH1	2.15	0.79
5:CE:171:LEU:O	84:CE:402:OHX:N3	2.15	0.79
1:1:679:U:O4	84:1:3511:OHX:N1	2.16	0.78
1:1:2730:G:OP2	84:1:3447:OHX:N5	2.16	0.78
7:m:68:THR:HG22	7:m:70:THR:H	1.48	0.78
25:A:453:U:O4	84:A:1916:OHX:N5	2.15	0.78
53:F:151:ASP:HB3	53:F:154:ILE:HG13	1.64	0.78
50:s1:28:GLU:OE2	50:s1:94:LYS:NZ	2.16	0.78
1:1:1599:G:OP1	84:1:3688:OHX:N5	2.16	0.78
6:l:122:THR:HG22	6:l:235:LEU:HB2	1.65	0.78
73:Z:5:VAL:HG13	73:Z:29:HIS:HB3	1.65	0.78
1:1:3119:U:OP2	84:1:3428:OHX:N4	2.16	0.78
50:C:180:THR:HG22	50:C:181:LEU:HD13	1.65	0.78
69:d0:70:THR:HG21	69:d0:74:GLU:HB3	1.66	0.78

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1412:G:OP1	34:DG:105:ARG:NH2	2.16	0.78
25:A:283:U:H5''	55:H:188:ARG:HD3	1.65	0.78
1:1:1344:G:O6	1:1:1360:C:N4	2.15	0.78
1:1:2177:G:OP2	4:j:128:ARG:NH1	2.16	0.78
25:A:1280:C:H2'	25:A:1281:G:H8	1.49	0.78
52:E:178:ARG:HE	52:E:178:ARG:H	1.29	0.78
1:1:1567:U:O2	1:1:1571:A:N6	2.17	0.78
25:6:485:A:N6	25:6:502:U:O4	2.16	0.78
6:CF:283:THR:HG22	6:CF:285:ASP:H	1.48	0.78
25:A:1585:U:H3	25:A:1611:A:H2	1.32	0.78
1:AR:2384:A:OP1	84:AR:3480:OHX:N3	2.16	0.78
1:1:2969:A:N7	4:j:215:ASN:ND2	2.30	0.78
14:t:47:ALA:HB1	14:t:48:PRO:HD2	1.65	0.78
16:v:35:VAL:HA	16:v:65:ARG:HD3	1.64	0.77
18:x:122:ALA:HB3	18:x:143:PRO:HB2	1.66	0.77
1:AR:2433:U:H1'	16:CP:125:SER:HB3	1.65	0.77
2:AS:95:A:OP2	84:AS:209:OHX:N1	2.17	0.77
1:AR:1824:U:OP1	40:DM:3:ARG:NH2	2.18	0.77
1:1:1015:U:O2'	1:1:1017:C:OP2	2.01	0.77
1:AR:1170:A:OP2	84:AR:3504:OHX:N6	2.17	0.77
1:AR:1258:U:OP1	47:p0:46:ARG:NH2	2.18	0.77
28:DA:71:SER:HB3	28:DA:83:ASP:HB2	1.65	0.77
1:1:2656:A:H4'	44:AP:98:LYS:HD2	1.67	0.77
25:6:885:G:N2	63:c4:123:SER:HB2	2.00	0.77
25:6:1785:U:OP1	63:c4:136:ARG:NH1	2.16	0.77
25:6:918:U:H2'	25:6:919:A:H8	1.49	0.77
1:AR:1381:A:OP1	6:CF:197:ARG:NH1	2.16	0.77
1:AR:2273:G:O6	84:AR:3697:OHX:N5	2.17	0.77
56:I:32:PRO:HD2	56:I:34:LEU:HB2	1.67	0.77
1:1:2108:C:H1'	1:1:3344:A:C8	2.19	0.77
1:1:2897:A:H5''	42:AN:125:LYS:HG3	1.65	0.77
2:3:44:C:OP2	13:s:137:ARG:NH2	2.17	0.77
29:AA:83:THR:HG23	29:AA:85:TYR:H	1.49	0.77
54:s5:161:ASP:OD2	77:d8:42:ARG:NH1	2.18	0.77
55:s6:109:LEU:HD13	55:s6:111:LEU:HD21	1.66	0.77
79:e0:59:GLY:O	79:e0:61:SER:N	2.17	0.77
68:c9:84:LYS:HD2	68:c9:94:ILE:HG13	1.67	0.77
11:q:28:VAL:HG13	11:q:33:THR:HB	1.65	0.77
1:AR:1723:A:OP1	20:CT:128:LYS:NZ	2.18	0.77
6:CF:60:THR:HG22	6:CF:62:ALA:H	1.50	0.77
33:DF:88:PRO:HG2	33:DF:89:LEU:HD12	1.66	0.77

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1173:C:H3'	67:T:141:THR:HG21	1.65	0.77
25:A:1390:U:OP2	66:S:49:LYS:NZ	2.18	0.77
29:AA:95:VAL:HG21	29:AA:113:VAL:HG11	1.66	0.77
1:AR:2759:U:H5''	1:AR:2760:C:H5'	1.66	0.77
51:D:140:ARG:HH22	51:D:228:ASN:HD21	1.33	0.77
25:A:1239:U:O4	84:A:1925:OHX:N4	2.18	0.77
25:A:1757:G:O6	84:A:1901:OHX:N2	2.18	0.77
65:R:113:ASP:HA	65:R:116:LEU:HD22	1.66	0.77
75:b:87:ARG:NH2	75:b:94:ASN:O	2.18	0.77
1:1:1634:G:N7	29:AA:17:ARG:NH2	2.33	0.76
1:1:1861:G:O6	84:1:3534:OHX:N1	2.19	0.76
1:1:3200:G:O6	84:1:3662:OHX:N4	2.18	0.76
38:AJ:5:THR:HG23	38:AJ:12:ASN:HB2	1.68	0.76
6:CF:16:THR:HG22	6:CF:18:ASN:H	1.51	0.76
12:CL:14:ASN:O	12:CL:128:ARG:NH2	2.18	0.76
53:s4:160:VAL:HG13	53:s4:169:ILE:HG23	1.65	0.76
64:c5:18:ARG:NH1	67:c8:91:ASP:O	2.18	0.76
81:sR:177:MET:HE1	81:sR:193:ILE:HG23	1.67	0.76
70:W:1:MET:HE3	70:W:13:VAL:HG22	1.68	0.76
1:1:2310:U:OP1	84:1:3672:OHX:N1	2.19	0.76
30:AB:94:ALA:HB1	30:AB:122:PRO:HD2	1.67	0.76
1:AR:1389:G:N7	84:AR:3514:OHX:N5	2.32	0.76
45:DR:73:THR:HG23	45:DR:76:ALA:H	1.50	0.76
3:4:135:G:OP2	27:8:56:ARG:NH2	2.17	0.76
1:AR:917:A:OP2	84:AR:3712:OHX:N1	2.18	0.76
1:AR:3349:C:H42	1:AR:3356:G:H1	1.33	0.76
25:6:58:U:O4	84:6:1945:OHX:N6	2.18	0.76
1:AR:3164:C:N4	1:AR:3286:G:O6	2.18	0.76
25:A:992:A:OP1	84:A:1913:OHX:N2	2.18	0.76
49:B:52:LYS:HD2	70:W:82:VAL:HA	1.67	0.76
1:1:271:C:O2	38:AJ:82:ARG:NH2	2.17	0.76
8:n:175:LYS:HD3	15:u:111:ALA:HA	1.68	0.76
25:6:915:A:OP1	84:6:1926:OHX:N6	2.18	0.76
1:AR:860:G:OP1	45:DR:17:ARG:NH1	2.18	0.76
57:J:185:GLU:HG2	60:M:23:PRO:HG2	1.66	0.76
1:1:1639:C:OP2	36:AH:74:ARG:NH2	2.18	0.76
14:t:74:GLY:O	14:t:101:ARG:NH1	2.19	0.76
15:CO:19:ARG:HA	15:CO:69:THR:HG22	1.67	0.76
47:p0:26:PHE:HB2	47:p0:87:VAL:HB	1.65	0.76
1:AR:1639:C:OP2	36:DI:74:ARG:NH2	2.19	0.76
1:AR:2198:A:OP2	84:AR:3691:OHX:N6	2.18	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:111:THR:HB	4:CD:136:ILE:HD13	1.67	0.76
54:G:62:VAL:HG13	54:G:89:ILE:HG12	1.67	0.76
54:G:143:ARG:NH1	54:G:218:GLU:OE1	2.19	0.76
1:1:1674:G:OP2	84:1:3485:OHX:N2	2.19	0.75
25:A:888:U:H1'	63:P:126:THR:HG21	1.68	0.75
1:1:25:U:O4	84:1:3406:OHX:N6	2.18	0.75
1:1:3312:U:O4	84:1:3433:OHX:N6	2.18	0.75
3:AT:15:G:OP2	84:AT:203:OHX:N3	2.19	0.75
1:1:276:U:O2	16:v:93:LYS:NZ	2.18	0.75
1:1:1600:U:O2	1:1:1605:A:N6	2.18	0.75
1:AR:1563:C:O2	1:AR:1577:G:N2	2.18	0.75
37:DJ:78:LYS:HA	37:DJ:81:ARG:HD2	1.68	0.75
1:1:1373:A:OP2	30:AB:7:LYS:NZ	2.20	0.75
1:AR:2745:G:N7	84:AR:3468:OHX:N5	2.35	0.75
73:Z:83:LYS:HE2	73:Z:96:LEU:HB3	1.68	0.75
53:s4:181:VAL:HG21	53:s4:195:ILE:HD11	1.68	0.75
65:c6:113:ASP:HA	65:c6:116:LEU:HD12	1.68	0.75
25:6:475:A:OP2	58:s9:126:ARG:NH1	2.20	0.75
25:6:585:A:OP1	79:e0:15:LYS:NZ	2.20	0.75
1:1:1414:G:N7	84:1:3657:OHX:N2	2.35	0.75
1:1:1942:U:OP2	20:z:74:ARG:NH1	2.19	0.75
1:AR:378:A:OP2	84:AR:3701:OHX:N3	2.19	0.75
25:A:471:A:N7	84:A:1954:OHX:N1	2.33	0.75
71:X:26:LEU:HD21	71:X:60:LYS:HB3	1.67	0.75
1:AR:3112:G:N7	84:AR:3418:OHX:N6	2.35	0.75
1:AR:3128:G:OP2	84:AR:3658:OHX:N3	2.20	0.75
6:CF:82:THR:HG23	6:CF:84:ARG:H	1.52	0.75
25:A:1339:C:O2'	25:A:1341:A:N7	2.20	0.75
75:b:79:ILE:HA	75:b:84:VAL:HG11	1.68	0.75
1:1:777:U:O4	84:1:3544:OHX:N2	2.20	0.75
1:1:2940:A:OP2	5:k:2:SER:N	2.20	0.75
1:AR:837:A:OP2	45:DR:4:ARG:NH1	2.20	0.75
1:1:1369:A:OP1	30:AB:21:ARG:NH1	2.20	0.74
1:1:2924:U:O2'	84:1:3667:OHX:N2	2.20	0.74
40:AL:12:LEU:HB3	40:AL:16:ARG:HH12	1.51	0.74
1:AR:3122:A:N1	11:CK:70:THR:HG21	2.02	0.74
25:A:930:A:OP1	75:b:32:LYS:NZ	2.19	0.74
55:H:69:LEU:HB3	55:H:71:THR:HG23	1.69	0.74
60:M:7:VAL:HG13	60:M:8:GLN:H	1.52	0.74
23:5:43:VAL:HB	23:5:49:ASN:HB3	1.70	0.74
25:6:770:A:OP2	84:6:1995:OHX:N4	2.19	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2973:G:OP1	84:AR:3650:OHX:N3	2.20	0.74
1:AR:3346:U:H3	1:AR:3359:A:H61	1.35	0.74
49:B:55:GLU:OE2	70:W:80:LYS:N	2.20	0.74
55:H:2:LYS:HB3	55:H:108:VAL:HG22	1.68	0.74
1:AR:2812:C:H2'	1:AR:2813:A:H8	1.53	0.74
1:AR:3311:C:OP1	84:AR:3728:OHX:N4	2.21	0.74
25:A:1085:G:N2	25:A:1088:A:OP2	2.18	0.74
58:s9:109:LEU:HB2	58:s9:146:PHE:HB3	1.69	0.74
1:1:2762:A:OP2	84:1:3472:OHX:N4	2.20	0.74
1:AR:3290:G:O6	84:AR:3603:OHX:N3	2.21	0.74
25:A:471:A:OP2	84:A:1954:OHX:N4	2.20	0.74
58:K:89:ASP:OD1	58:K:89:ASP:N	2.20	0.74
64:Q:67:ALA:O	84:Q:201:OHX:N1	2.20	0.74
1:1:900:G:H1'	1:1:1589:A:N6	2.03	0.74
4:j:80:GLU:HG3	45:AQ:66:GLY:HA2	1.70	0.74
25:6:1220:C:H42	25:6:1263:G:H1	1.35	0.74
6:CF:226:GLU:OE2	6:CF:246:ARG:NH2	2.20	0.74
11:CK:22:SER:OG	11:CK:23:ARG:N	2.11	0.74
57:J:5:ARG:NH1	57:J:29:LEU:O	2.18	0.74
1:AR:1239:C:H42	1:AR:1249:G:H1	1.35	0.74
52:s3:211:PRO:HG2	82:c7:19:ARG:HB2	1.70	0.74
14:t:22:VAL:HG13	16:v:197:LEU:HB3	1.69	0.74
25:6:1012:U:H4'	4:CD:248:GLY:HA2	1.69	0.74
28:9:27:ARG:HA	28:9:30:LEU:HD12	1.70	0.74
25:A:1424:A:H1'	51:D:92:ALA:HB1	1.70	0.74
71:X:82:LYS:O	71:X:84:GLY:N	2.16	0.74
5:k:36:ASP:OD1	5:k:38:SER:OG	2.05	0.74
25:6:1679:G:O6	84:6:2050:OHX:N4	2.21	0.74
63:P:13:VAL:HG13	63:P:77:THR:H	1.53	0.74
78:e:19:ARG:HD2	78:e:32:ARG:HD2	1.67	0.74
49:s0:55:GLU:HG2	70:d1:79:LEU:HD22	1.69	0.74
56:I:35:LYS:HG2	56:I:36:ALA:H	1.52	0.74
50:s1:132:ASP:HB2	50:s1:221:PRO:HB3	1.69	0.74
6:l:16:THR:HG22	6:l:18:ASN:H	1.52	0.74
1:AR:283:G:OP2	1:AR:285:A:O2'	2.05	0.74
1:AR:2988:C:OP1	17:CQ:68:ARG:NH1	2.21	0.74
25:A:868:G:O6	84:A:1910:OHX:N6	2.21	0.74
69:V:80:GLU:OE1	78:e:44:ARG:NH1	2.20	0.74
1:1:383:G:N2	1:1:386:A:OP2	2.21	0.73
1:1:3375:A:O2'	1:1:3378:C:OP2	2.05	0.73
22:CV:14:MET:HE1	22:CV:55:LYS:HB2	1.69	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
28:DA:45:ILE:HD11	28:DA:119:ILE:HG23	1.70	0.73
25:A:991:G:OP2	84:A:2009:OHX:N1	2.20	0.73
63:P:127:ARG:HG3	75:b:22:ARG:HH12	1.52	0.73
21:O:155:ARG:NH2	21:O:171:PHE:O	2.20	0.73
24:l:108:GLU:HA	24:l:128:ARG:HG3	1.70	0.73
12:CL:76:MET:HE1	12:CL:138:VAL:HG21	1.69	0.73
14:CN:28:GLN:OE1	16:CP:201:ARG:NH1	2.20	0.73
49:s0:124:THR:HG22	49:s0:174:TRP:HE1	1.52	0.73
1:AR:2580:A:O2'	84:AR:3630:OHX:N1	2.22	0.73
5:CE:167:ARG:O	84:CE:402:OHX:N5	2.21	0.73
51:D:39:THR:O	51:D:42:GLY:N	2.21	0.73
18:x:25:SER:O	18:x:29:THR:OG1	2.06	0.73
21:O:141:LYS:HA	21:O:144:LEU:HD12	1.69	0.73
38:DK:45:ARG:NH2	38:DK:54:GLU:OE1	2.20	0.73
50:s1:33:LYS:HE2	50:s1:41:ARG:HH12	1.53	0.73
68:c9:28:LEU:HA	68:c9:111:ILE:HD11	1.70	0.73
1:1:2703:A:OP2	7:m:23:ARG:NH1	2.21	0.73
25:6:1595:U:H3	25:6:1600:A:H2	1.36	0.73
1:AR:1345:G:N2	6:CF:307:GLN:OE1	2.19	0.73
1:AR:2908:G:OP1	84:AR:3444:OHX:N1	2.21	0.73
64:Q:68:PRO:HG2	64:Q:71:GLU:HB3	1.71	0.73
1:1:1723:A:OP2	20:z:103:ARG:NH2	2.22	0.73
1:1:3301:U:O4	84:1:3433:OHX:N2	2.22	0.73
1:AR:402:A:OP1	41:DN:36:ARG:NH2	2.21	0.73
1:AR:778:U:O4	84:AR:3589:OHX:N1	2.20	0.73
1:AR:2754:G:OP2	84:AR:3549:OHX:N3	2.21	0.73
1:AR:3065:G:O6	84:AR:3606:OHX:N6	2.22	0.73
25:A:1159:C:N3	84:A:1992:OHX:N6	2.36	0.73
51:s2:228:ASN:HB2	51:s2:229:LEU:HD12	1.69	0.73
56:s7:66:SER:O	56:s7:68:ALA:N	2.19	0.73
1:1:1464:G:O2'	84:1:3416:OHX:N4	2.22	0.73
25:6:1265:G:N7	84:6:2055:OHX:N6	2.37	0.73
7:CG:120:LYS:O	7:CG:248:ARG:NH2	2.21	0.73
13:CM:92:ARG:HH21	13:CM:94:ARG:HH21	1.35	0.73
3:4:124:G:H1	3:4:129:C:H42	1.35	0.73
45:AQ:46:THR:HB	45:AQ:58:SER:HB2	1.69	0.73
40:DM:63:LYS:HA	40:DM:66:ILE:HD12	1.71	0.73
51:D:106:ASP:OD1	51:D:108:ASN:N	2.21	0.73
56:I:51:VAL:HG23	56:I:53:GLY:H	1.54	0.73
52:s3:32:GLU:HG3	52:s3:57:ASP:HB2	1.69	0.73
5:k:185:GLY:O	5:k:191:LYS:NZ	2.15	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1645:G:H1	25:6:1756:A:H61	1.37	0.72
25:A:973:A:H2'	25:A:974:A:H8	1.52	0.72
58:s9:129:ILE:HA	58:s9:134:ILE:HD11	1.69	0.72
61:c2:103:LEU:HD23	61:c2:115:VAL:HA	1.70	0.72
1:1:2248:C:OP2	84:1:3419:OHX:N3	2.21	0.72
1:1:2827:U:O4	84:1:3403:OHX:N4	2.22	0.72
11:q:49:ASN:O	11:q:49:ASN:ND2	2.21	0.72
65:R:38:LEU:HD22	68:U:10:ALA:HB2	1.71	0.72
72:d3:51:GLY:HA2	72:d3:77:ILE:HG13	1.70	0.72
1:1:917:A:OP2	84:1:3677:OHX:N1	2.23	0.72
1:1:1486:G:N7	84:1:3689:OHX:N2	2.38	0.72
2:3:62:U:O4	2:3:63:A:N6	2.21	0.72
6:l:20:LEU:HD11	6:l:252:GLU:HG3	1.72	0.72
25:6:1280:C:H2'	25:6:1281:G:H8	1.53	0.72
16:CP:174:ILE:O	16:CP:175:ASN:ND2	2.22	0.72
25:A:753:A:H5'	53:F:221:ARG:HG3	1.69	0.72
25:6:621:A:HO2'	25:6:1106:U:HO2'	1.37	0.72
1:AR:1427:U:OP2	30:DC:4:ARG:NH2	2.22	0.72
25:A:324:U:OP1	60:M:133:LYS:NZ	2.21	0.72
53:s4:9:LEU:HB2	53:s4:30:ARG:HB2	1.71	0.72
53:s4:197:HIS:HB3	53:s4:209:HIS:HD2	1.54	0.72
25:A:1213:G:O6	84:A:1907:OHX:N5	2.23	0.72
49:B:36:TYR:OH	49:B:56:LYS:NZ	2.21	0.72
60:c1:99:ARG:NH1	72:d3:7:ARG:O	2.23	0.72
13:s:16:LYS:HB3	13:s:72:ARG:HG2	1.72	0.72
25:6:1268:G:H1'	25:6:1448:G:H5''	1.72	0.72
1:AR:944:C:H4'	34:DG:33:ARG:NH1	2.05	0.72
25:A:1338:C:H1'	25:A:1410:A:C4	2.25	0.72
61:c2:75:VAL:HG21	61:c2:120:VAL:HG21	1.71	0.72
1:1:2677:G:OP2	84:1:3586:OHX:N1	2.23	0.72
1:1:3308:C:N3	18:x:69:ARG:NH1	2.38	0.72
25:6:568:G:N7	72:d3:69:ARG:NH2	2.37	0.72
1:AR:992:A:H5''	22:CV:43:LYS:HD2	1.72	0.72
1:AR:1348:U:O2	1:AR:1349:G:N2	2.23	0.72
57:J:197:THR:HG22	57:J:200:LYS:HD2	1.69	0.72
1:1:2155:G:O2'	4:j:227:ARG:NH2	2.23	0.72
12:r:165:ILE:H	12:r:165:ILE:HD13	1.55	0.72
17:w:12:LYS:O	21:0:167:ARG:NH2	2.23	0.72
1:AR:2108:C:H1'	1:AR:3344:A:C8	2.25	0.72
1:AR:2528:G:O3'	10:CJ:248:LYS:NZ	2.23	0.72
55:H:57:ASP:HA	55:H:106:LEU:HA	1.71	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:964:G:OP1	84:1:3502:OHX:N2	2.23	0.72
25:6:1500:C:OP1	68:c9:122:ARG:NH2	2.23	0.72
1:AR:1077:U:N3	1:AR:1082:U:O4	2.19	0.72
18:CR:36:ILE:HD11	18:CR:95:LEU:HD11	1.71	0.72
32:AD:16:LEU:HB3	32:AD:98:SER:HB2	1.72	0.71
1:AR:744:A:OP1	19:CS:66:ARG:NH2	2.23	0.71
34:DG:81:ASP:O	34:DG:84:THR:OG1	2.07	0.71
37:DJ:64:GLU:HA	37:DJ:67:ARG:HB2	1.71	0.71
25:A:820:U:H2'	25:A:821:U:H4'	1.72	0.71
69:V:27:THR:HB	69:V:88:LYS:HG3	1.71	0.71
74:a:70:LYS:HB3	74:a:71:ILE:HG13	1.71	0.71
1:1:860:G:OP1	45:AQ:17:ARG:NH1	2.23	0.71
1:1:1466:G:O6	84:1:3416:OHX:N4	2.23	0.71
46:i:93:ARG:HH12	25:A:1426:C:H5''	1.55	0.71
38:DK:70:ARG:HD3	38:DK:84:LYS:HG2	1.70	0.71
41:DN:9:ILE:HG22	41:DN:13:MET:HE2	1.72	0.71
51:s2:45:VAL:HG21	51:s2:68:ILE:HG23	1.71	0.71
75:d6:12:LYS:HE2	75:d6:16:GLY:H	1.55	0.71
20:z:76:SER:O	20:z:81:ARG:NH1	2.22	0.71
1:AR:3182:G:OP1	17:CQ:160:ARG:NH2	2.23	0.71
25:A:123:G:H21	53:F:146:THR:HG21	1.53	0.71
25:A:1535:U:O2'	25:A:1536:G:N3	2.23	0.71
50:C:34:ALA:HB3	50:C:41:ARG:HA	1.71	0.71
69:V:27:THR:HG23	69:V:113:ASP:HB3	1.72	0.71
25:6:1105:C:OP2	72:d3:14:LYS:NZ	2.20	0.71
21:CU:2:ALA:HB3	21:CU:32:SER:HB3	1.72	0.71
76:d7:2:VAL:HG22	76:d7:3:LEU:HD23	1.72	0.71
81:sR:32:LEU:HD11	81:sR:44:SER:HB2	1.71	0.71
1:1:1841:A:H2	41:AM:45:ARG:HH22	1.38	0.71
1:1:3120:C:OP2	84:1:3428:OHX:N3	2.23	0.71
25:6:1487:A:OP1	78:d9:34:TYR:OH	2.07	0.71
1:AR:356:C:OP2	84:AR:3707:OHX:N2	2.23	0.71
10:CJ:140:VAL:HG21	16:CP:3:ALA:HB2	1.72	0.71
71:X:27:ILE:HG12	71:X:61:ILE:HB	1.73	0.71
73:Z:5:VAL:HG12	73:Z:6:THR:H	1.53	0.71
84:1:3596:OHX:N3	2:3:87:G:OP2	2.23	0.71
13:s:32:ARG:NH1	13:s:120:ILE:O	2.24	0.71
23:5:51:GLY:O	23:5:52:ASN:ND2	2.22	0.71
63:c4:20:TYR:HB3	63:c4:27:PHE:HB2	1.72	0.71
1:1:626:U:O4	84:1:3537:OHX:N3	2.23	0.71
1:1:2535:A:H61	1:1:2544:U:H3	1.38	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:46:ILE:HG22	14:t:49:ARG:HB2	1.71	0.71
1:1:1481:A:O2'	1:1:1858:A:N3	2.21	0.71
1:1:2528:G:O3'	10:p:248:LYS:NZ	2.24	0.71
1:AR:1733:G:OP2	84:AR:3469:OHX:N6	2.24	0.71
3:AT:95:G:OP2	39:DL:72:ARG:NH1	2.24	0.71
33:DF:31:ARG:NH1	33:DF:35:GLU:OE1	2.24	0.71
1:1:1860:G:O6	84:1:3534:OHX:N1	2.24	0.71
25:6:1564:U:OP1	68:c9:38:LYS:NZ	2.21	0.71
53:F:193:GLY:HA3	53:F:210:ILE:HG22	1.73	0.71
74:d5:44:GLN:HA	74:d5:47:TYR:HB3	1.73	0.71
31:AC:17:HIS:O	84:AC:101:OHX:N2	2.23	0.71
1:AR:964:G:OP1	84:AR:3511:OHX:N1	2.24	0.71
1:AR:3369:G:N1	5:CE:380:MET:O	2.20	0.71
2:AS:26:C:H5'	7:CG:56:THR:HB	1.71	0.71
19:CS:185:LYS:HD3	19:CS:186:VAL:HG23	1.72	0.71
50:C:183:GLN:HG2	50:C:187:LYS:HE3	1.73	0.71
1:1:2514:U:OP1	10:p:68:ARG:NH1	2.23	0.70
7:m:91:GLY:O	7:m:94:ASN:ND2	2.24	0.70
25:6:1533:C:OP2	74:d5:77:ARG:NH1	2.23	0.70
1:AR:2261:G:O2'	1:AR:2263:C:N4	2.23	0.70
6:CF:145:ILE:O	84:CF:401:OHX:N4	2.24	0.70
8:CH:51:ARG:NH1	15:CO:114:ASP:OD2	2.24	0.70
25:A:521:A:N3	73:Z:34:ASN:ND2	2.39	0.70
62:O:76:LYS:HA	62:O:81:ALA:HB2	1.72	0.70
62:c3:65:VAL:HG23	62:c3:66:ILE:HG23	1.73	0.70
1:1:2976:A:OP1	84:1:3654:OHX:N6	2.24	0.70
54:G:73:THR:HG22	54:G:75:GLY:H	1.54	0.70
49:s0:13:ASP:HA	49:s0:16:LEU:HD12	1.73	0.70
53:s4:52:LEU:HB3	53:s4:54:TYR:HD2	1.56	0.70
1:1:2897:A:OP2	42:AN:124:LYS:NZ	2.21	0.70
25:6:1735:U:O4	84:6:1979:OHX:N5	2.24	0.70
1:1:1942:U:HO2'	1:1:3345:G:HO2'	1.36	0.70
5:k:187:SER:O	5:k:190:GLU:N	2.23	0.70
24:l2:40:LYS:HD3	24:l2:59:MET:HE2	1.73	0.70
1:AR:1028:U:O2	13:CM:94:ARG:NH1	2.23	0.70
1:AR:1486:G:N7	84:AR:3536:OHX:N4	2.39	0.70
1:AR:2705:A:OP2	84:AR:3401:OHX:N4	2.24	0.70
21:CU:91:TYR:O	21:CU:137:ARG:NH1	2.25	0.70
29:DB:25:ILE:HA	29:DB:43:VAL:HG12	1.72	0.70
50:C:28:GLU:OE2	50:C:94:LYS:NZ	2.24	0.70
52:E:115:ILE:HD11	52:E:138:VAL:HG11	1.72	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:c2:54:ARG:NH2	83:e1:127:GLY:O	2.24	0.70
72:d3:70:LYS:HB3	72:d3:93:LEU:HD22	1.73	0.70
1:1:1230:G:H1	1:1:1279:C:H42	1.37	0.70
25:6:753:A:OP2	53:s4:187:ARG:NH1	2.24	0.70
1:AR:409:A:OP2	84:AR:3604:OHX:N3	2.24	0.70
1:AR:3045:G:OP1	5:CE:19:ARG:NH2	2.23	0.70
67:T:49:LYS:NZ	67:T:80:LYS:O	2.24	0.70
49:s0:157:ASP:N	49:s0:157:ASP:OD1	2.23	0.70
1:1:2741:C:O2'	44:AP:20:HIS:ND1	2.23	0.70
25:6:822:U:H2'	25:6:823:G:H5''	1.72	0.70
25:6:1118:G:O6	84:6:2035:OHX:N2	2.24	0.70
36:DI:58:ARG:HG3	36:DI:59:PRO:HD2	1.72	0.70
25:A:158:U:O2'	25:A:160:C:OP2	2.09	0.70
74:a:61:SER:H	74:a:64:VAL:HB	1.57	0.70
25:6:1558:U:H3	64:c5:122:THR:HG22	1.56	0.70
12:CL:220:GLN:O	84:CL:301:OHX:N2	2.25	0.70
25:A:42:G:N7	84:A:1918:OHX:N4	2.40	0.70
73:Z:60:PHE:H	73:Z:71:GLY:HA2	1.55	0.70
1:1:3375:A:H5''	1:1:3378:C:H5	1.56	0.70
84:1:3496:OHX:N6	9:o:217:PRO:O	2.24	0.70
1:AR:1345:G:N7	84:AR:3568:OHX:N5	2.40	0.70
1:AR:3396:U:O2	84:AR:3682:OHX:N6	2.25	0.70
24:CX:54:LEU:HD21	24:CX:119:GLY:HA3	1.73	0.70
25:A:1473:U:O2'	54:G:103:ASN:OD1	2.09	0.70
53:s4:15:PRO:HG3	53:s4:39:ARG:HG2	1.73	0.70
54:s5:94:THR:HG22	54:s5:114:ILE:HG13	1.74	0.70
59:c0:31:LYS:H	59:c0:38:LYS:HA	1.56	0.70
64:c5:68:PRO:O	84:c5:201:OHX:N1	2.24	0.70
1:1:409:A:H61	3:4:15:G:H1'	1.56	0.70
1:1:2548:C:OP2	4:j:93:LYS:NZ	2.24	0.70
25:6:1383:G:OP1	69:d0:89:ARG:NH2	2.24	0.70
1:AR:836:A:O2'	45:DR:9:GLY:O	2.08	0.70
1:AR:1171:G:O6	84:AR:3504:OHX:N1	2.24	0.70
1:1:2513:U:OP2	84:1:3446:OHX:N3	2.25	0.70
19:y:158:HIS:H	19:y:186:VAL:HG12	1.57	0.70
25:6:1699:G:H22	25:6:1702:A:H5''	1.57	0.70
81:h:216:LYS:HA	81:h:239:GLU:HG3	1.72	0.70
26:7:6:ASP:HB3	26:7:10:GLY:H	1.57	0.69
29:DB:27:LYS:HB3	29:DB:42:LEU:HB2	1.73	0.69
25:A:62:A:OP1	84:A:1944:OHX:N4	2.25	0.69
25:A:366:A:OP1	25:A:758:U:O2'	2.09	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
79:e0:51:ASN:HB3	79:e0:53:LYS:HG2	1.73	0.69
16:v:138:GLN:HA	16:v:143:ARG:HH11	1.56	0.69
23:5:18:ASP:H	23:5:104:ARG:HA	1.57	0.69
3:AT:126:A:O2'	3:AT:128:U:OP2	2.09	0.69
3:AT:133:G:N7	84:AT:210:OHX:N6	2.40	0.69
48:sM:71:ASN:ND2	64:c5:127:ARG:O	2.25	0.69
25:A:384:G:O6	84:A:2008:OHX:N6	2.26	0.69
54:G:40:ILE:HG23	54:G:42:LEU:HD22	1.73	0.69
1:1:149:U:OP2	16:v:49:ARG:NH2	2.24	0.69
38:AJ:4:LYS:HD2	38:AJ:14:GLY:HA3	1.73	0.69
4:CD:6:ARG:HH12	4:CD:199:THR:H	1.39	0.69
18:CR:125:GLN:HB2	18:CR:141:SER:HB2	1.73	0.69
41:DN:23:LEU:HD22	41:DN:24:PRO:HD2	1.74	0.69
25:A:1142:A:H5''	75:b:2:PRO:HB3	1.74	0.69
19:y:44:PHE:CD2	19:y:134:GLY:HA3	2.28	0.69
1:AR:1018:G:H5''	48:sM:46:LYS:HA	1.73	0.69
1:AR:2278:C:OP1	84:AR:3592:OHX:N6	2.25	0.69
23:CW:14:THR:HG23	23:CW:66:VAL:HG22	1.74	0.69
25:A:1533:C:H4'	25:A:1539:G:N1	2.07	0.69
61:N:61:VAL:HG13	61:N:121:VAL:HG23	1.72	0.69
65:R:114:ARG:H	65:R:116:LEU:HD13	1.57	0.69
53:s4:104:ASP:HB2	53:s4:108:ARG:H	1.57	0.69
53:s4:159:THR:HG22	53:s4:173:ILE:HB	1.73	0.69
1:1:58:G:H4'	16:v:155:VAL:HG12	1.74	0.69
1:1:1447:G:H3'	18:x:67:ILE:HD11	1.73	0.69
2:3:112:G:OP2	84:3:206:OHX:N3	2.25	0.69
25:6:895:G:H1	25:6:917:U:H3	1.39	0.69
41:AM:9:ILE:HG22	41:AM:13:MET:HE2	1.73	0.69
28:DA:3:LYS:HG3	28:DA:8:VAL:HG13	1.73	0.69
1:1:819:U:OP1	39:AK:10:LYS:NZ	2.25	0.69
15:u:94:TRP:O	15:u:97:SER:OG	2.09	0.69
1:AR:1369:A:OP1	30:DC:21:ARG:NH1	2.26	0.69
22:CV:119:ALA:O	22:CV:123:GLY:N	2.14	0.69
25:A:550:A:OP2	84:A:1904:OHX:N4	2.26	0.69
68:c9:28:LEU:HD22	68:c9:29:GLU:H	1.57	0.69
1:1:1441:G:O6	84:1:3463:OHX:N1	2.26	0.69
1:1:2572:C:O2'	1:1:2573:G:O4'	2.11	0.69
1:1:2818:U:H6	1:1:2818:U:H5'	1.57	0.69
4:j:116:VAL:HG22	4:j:126:LEU:HB2	1.75	0.69
25:6:1241:G:OP1	64:c5:77:ARG:NH1	2.24	0.69
2:AS:79:A:OP2	84:AS:203:OHX:N5	2.25	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:356:G:OP2	84:A:1914:OHX:N6	2.26	0.69
1:1:103:G:OP1	14:t:70:ARG:NH2	2.24	0.69
1:1:612:U:H2'	1:1:613:G:H8	1.56	0.69
1:1:1029:G:H2'	1:1:1030:A:C8	2.27	0.69
1:1:1723:A:OP1	20:z:128:LYS:NZ	2.25	0.69
1:1:3098:G:N7	84:1:3440:OHX:N5	2.40	0.69
3:4:77:A:OP2	84:4:202:OHX:N2	2.26	0.69
25:6:950:C:HO2'	62:c3:101:HIS:HD1	1.39	0.69
25:6:1164:G:H1	25:6:1581:C:H42	1.38	0.69
46:i:23:LYS:HD2	46:i:23:LYS:H	1.58	0.69
1:AR:409:A:OP2	84:AR:3604:OHX:N5	2.26	0.69
1:AR:679:U:O4	84:AR:3518:OHX:N2	2.25	0.69
1:AR:1538:G:OP2	84:AR:3508:OHX:N4	2.26	0.69
25:A:7:G:N7	51:D:205:ARG:NH1	2.34	0.69
25:A:520:A:H2'	25:A:521:A:C8	2.28	0.69
55:H:114:VAL:HG12	55:H:115:LYS:HD3	1.75	0.69
71:X:30:SER:HB2	71:X:61:ILE:HG13	1.75	0.69
72:Y:70:LYS:HB3	72:Y:93:LEU:HD22	1.75	0.69
82:c7:27:ASP:O	82:c7:31:ASN:ND2	2.21	0.69
1:1:266:A:OP1	16:v:5:LYS:NZ	2.19	0.69
1:1:742:G:O6	84:1:3513:OHX:N1	2.26	0.69
1:AR:1235:U:H4'	1:AR:1236:G:H5'	1.73	0.69
1:AR:2656:A:H4'	44:DQ:98:LYS:HD2	1.74	0.69
25:A:732:G:O2'	25:A:733:A:O4'	2.11	0.69
25:A:1500:C:OP1	68:U:122:ARG:NH2	2.20	0.69
51:D:229:LEU:HD11	70:W:1:MET:HE2	1.74	0.69
54:G:37:GLN:HB3	65:R:53:LEU:HD22	1.75	0.69
68:U:42:GLY:HA2	68:U:84:LYS:HB2	1.75	0.69
1:AR:510:G:O6	84:AR:3526:OHX:N2	2.26	0.69
1:AR:691:A:OP1	6:CF:46:LYS:NZ	2.25	0.69
1:AR:1326:A:O2'	35:DH:77:ASN:OD1	2.09	0.69
1:AR:2311:G:OP2	84:AR:3478:OHX:N1	2.26	0.69
5:CE:76:VAL:HG11	5:CE:323:MET:HE3	1.74	0.69
25:A:40:A:OP1	58:K:3:ARG:NH1	2.26	0.69
25:A:992:A:H2'	25:A:993:A:H5'	1.73	0.69
1:1:1951:C:H42	1:1:2095:G:H1	1.41	0.68
7:m:132:THR:HG21	7:m:170:GLY:HA2	1.75	0.68
12:r:170:LYS:HA	12:r:177:ASP:HA	1.72	0.68
25:6:513:U:OP1	58:s9:133:HIS:NE2	2.17	0.68
28:9:71:SER:HB3	28:9:83:ASP:HB2	1.72	0.68
28:9:126:LEU:HD12	28:9:127:GLU:H	1.57	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2169:G:O6	84:AR:3454:OHX:N2	2.26	0.68
16:v:13:LYS:O	16:v:16:SER:OG	2.09	0.68
36:AH:16:ARG:HD2	36:AH:37:LYS:HD2	1.76	0.68
1:AR:1315:U:OP2	17:CQ:44:SER:OG	2.11	0.68
1:AR:1637:A:H5''	29:DB:16:GLY:HA3	1.74	0.68
9:CI:158:LYS:HE2	9:CI:159:GLN:H	1.58	0.68
55:H:77:LEU:HD13	55:H:84:TYR:HB2	1.75	0.68
72:Y:93:LEU:HD21	79:f:8:LEU:HD13	1.75	0.68
50:s1:35:PRO:HB3	50:s1:231:LEU:HD21	1.76	0.68
1:1:24:G:OP2	84:1:3406:OHX:N4	2.26	0.68
1:1:651:G:O2'	1:1:1435:A:OP1	2.10	0.68
1:1:1192:C:OP2	84:1:3588:OHX:N4	2.26	0.68
1:1:2707:C:OP1	46:i:34:LYS:NZ	2.25	0.68
1:1:3041:U:OP1	24:l2:12:ARG:NH1	2.27	0.68
25:6:1154:G:N7	84:6:1992:OHX:N6	2.41	0.68
25:6:1793:G:O2'	75:d6:5:ARG:NH2	2.27	0.68
36:AH:51:LEU:HD23	36:AH:51:LEU:H	1.57	0.68
49:B:31:VAL:HG12	49:B:33:GLN:H	1.56	0.68
57:s8:62:THR:HA	57:s8:76:THR:O	1.93	0.68
19:y:156:GLY:HA2	30:AB:47:LYS:HB2	1.74	0.68
25:6:1202:A:OP1	84:6:1986:OHX:N1	2.25	0.68
28:9:3:LYS:HG3	28:9:8:VAL:HG13	1.76	0.68
28:9:45:ILE:HD11	28:9:119:ILE:HG23	1.76	0.68
43:AO:13:LEU:HD11	43:AO:17:ARG:CZ	2.23	0.68
1:AR:1720:U:OP2	20:CT:110:ARG:NH1	2.27	0.68
12:CL:171:TRP:O	12:CL:174:THR:HG22	1.94	0.68
26:CY:25:ASP:OD1	26:CY:26:SER:N	2.26	0.68
25:A:1588:G:H1	25:A:1608:U:H3	1.41	0.68
81:h:117:LYS:H	81:h:117:LYS:HD2	1.59	0.68
59:c0:29:GLN:HB3	59:c0:39:ASN:HB3	1.75	0.68
1:1:64:G:OP2	16:v:169:LYS:NZ	2.27	0.68
1:1:1381:A:OP1	6:l:197:ARG:NH1	2.27	0.68
7:m:211:LEU:HB3	7:m:219:PHE:HB2	1.76	0.68
9:o:96:PRO:HG2	9:o:99:PRO:HG2	1.75	0.68
10:p:36:ILE:HG22	10:p:37:GLY:H	1.58	0.68
51:D:81:MET:HE1	51:D:186:LYS:HB3	1.75	0.68
65:R:31:VAL:HG13	65:R:67:VAL:HB	1.74	0.68
1:1:975:C:H2'	1:1:976:U:H6	1.59	0.68
1:1:1650:G:N2	1:1:1805:C:O2	2.20	0.68
12:r:129:VAL:HG22	12:r:133:GLN:HG2	1.75	0.68
25:6:1095:U:O4	84:6:2040:OHX:N2	2.26	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:22:A:OP2	84:A:1997:OHX:N4	2.27	0.68
25:A:844:A:H2'	25:A:845:G:H8	1.57	0.68
57:s8:36:THR:HG21	57:s8:173:PRO:HB2	1.76	0.68
65:c6:39:VAL:O	65:c6:45:ARG:NE	2.24	0.68
25:A:1110:G:N7	84:A:1947:OHX:N3	2.42	0.68
25:A:1592:A:H2'	25:A:1593:A:H8	1.59	0.68
52:s3:16:VAL:HG11	78:d9:22:ARG:NH1	2.06	0.68
4:j:108:PRO:O	4:j:111:THR:OG1	2.12	0.68
13:s:90:GLN:HG2	13:s:170:ASP:HB2	1.75	0.68
5:CE:183:LEU:O	5:CE:191:LYS:NZ	2.24	0.68
17:CQ:85:ARG:HD3	17:CQ:90:HIS:CD2	2.28	0.68
21:CU:155:ARG:NH2	21:CU:171:PHE:O	2.26	0.68
25:A:818:C:N4	25:A:819:G:O6	2.27	0.68
1:1:2588:U:OP1	10:p:48:ARG:NH2	2.27	0.68
3:4:95:G:OP2	39:AK:72:ARG:NH1	2.26	0.68
8:n:51:ARG:NH1	15:u:114:ASP:OD2	2.26	0.68
9:o:92:ILE:HD11	19:y:4:ASP:HB2	1.75	0.68
18:x:64:ASN:OD1	84:x:201:OHX:N2	2.27	0.68
25:6:93:A:H1'	53:s4:3:ARG:HB3	1.76	0.68
25:6:800:U:H2'	25:6:801:G:H8	1.59	0.68
25:6:1385:G:N7	84:6:1977:OHX:N6	2.42	0.68
1:AR:583:G:O6	84:AR:3524:OHX:N5	2.27	0.68
5:CE:218:ILE:HG12	5:CE:276:THR:HG23	1.76	0.68
5:CE:284:ARG:HB3	5:CE:323:MET:HB3	1.74	0.68
80:g:91:ILE:HG12	80:g:92:LYS:H	1.59	0.68
50:s1:164:ILE:HD13	50:s1:207:LEU:HD11	1.74	0.68
63:c4:87:GLY:HA3	63:c4:120:PRO:HG2	1.75	0.68
64:c5:22:LEU:HA	64:c5:25:LEU:HD12	1.76	0.68
9:o:173:LEU:HD23	9:o:178:ILE:HG21	1.76	0.68
11:q:90:MET:HB2	11:q:144:ILE:HG22	1.76	0.68
12:r:169:LYS:NZ	22:2:158:THR:OG1	2.27	0.68
1:AR:24:G:OP2	84:AR:3408:OHX:N6	2.26	0.68
1:AR:430:U:OP1	84:AR:3608:OHX:N5	2.27	0.68
5:CE:292:ALA:HB1	5:CE:295:ALA:HB2	1.76	0.68
25:A:23:G:O6	25:A:602:U:N3	2.19	0.68
25:A:1220:C:OP1	59:L:48:SER:OG	2.10	0.68
82:c7:104:ASN:O	82:c7:106:THR:N	2.23	0.68
14:t:163:GLY:HA2	30:AB:139:ARG:HH12	1.60	0.67
14:t:165:SER:O	14:t:167:PHE:N	2.23	0.67
25:6:66:U:C5	55:s6:173:PRO:HG3	2.30	0.67
25:6:895:G:H21	63:c4:38:THR:HG21	1.57	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2595:A:OP1	84:AR:3548:OHX:N4	2.27	0.67
3:AT:18:U:OP1	84:AT:211:OHX:N1	2.27	0.67
17:CQ:79:ILE:HG21	17:CQ:138:LEU:HD11	1.76	0.67
25:A:701:U:H3	25:A:737:A:H61	1.40	0.67
25:A:1015:U:OP1	84:A:1923:OHX:N3	2.27	0.67
25:A:1522:U:OP2	84:A:1937:OHX:N3	2.27	0.67
50:C:137:ILE:HG13	50:C:172:LEU:HD13	1.76	0.67
1:1:49:A:OP1	14:t:16:LYS:NZ	2.27	0.67
1:1:2156:C:O2	1:1:2180:G:N2	2.16	0.67
1:1:2233:A:OP2	84:1:3582:OHX:N5	2.28	0.67
1:1:2916:U:H1'	24:l:44:SER:HB3	1.76	0.67
3:4:136:G:OP1	27:8:48:SER:OG	2.05	0.67
25:6:1579:U:OP1	84:6:2043:OHX:N4	2.28	0.67
25:6:1773:C:OP2	43:DP:2:ARG:NH1	2.26	0.67
38:AJ:70:ARG:HH11	38:AJ:84:LYS:HD3	1.59	0.67
2:AS:49:G:C5	7:CG:58:LYS:HG3	2.28	0.67
1:AR:2904:U:OP1	84:AR:3545:OHX:N3	2.28	0.67
25:A:68:A:OP1	55:H:160:ARG:NH2	2.26	0.67
81:h:89:LEU:HB2	81:h:103:PHE:HB2	1.74	0.67
18:x:53:ASP:O	84:x:202:OHX:N3	2.27	0.67
25:6:1502:G:N7	68:c9:102:ARG:NH2	2.41	0.67
39:AK:14:LYS:HD2	41:AM:51:ILE:HD12	1.77	0.67
1:AR:2400:G:H5''	1:AR:2401:A:OP2	1.93	0.67
12:CL:43:VAL:HG21	12:CL:197:VAL:HB	1.76	0.67
18:CR:24:VAL:HG13	18:CR:86:LYS:HG2	1.75	0.67
40:DM:24:THR:HG23	40:DM:44:LYS:HB2	1.75	0.67
25:A:1280:C:H2'	25:A:1281:G:C8	2.28	0.67
25:A:1595:U:H3	25:A:1600:A:H2	1.40	0.67
67:T:95:GLY:O	84:T:201:OHX:N2	2.27	0.67
49:s0:148:ASP:HB2	49:s0:164:ASN:HB3	1.75	0.67
60:c1:8:GLN:OE1	60:c1:14:GLN:N	2.25	0.67
25:6:955:A:OP1	62:c3:3:ARG:NH1	2.27	0.67
25:6:1680:G:O6	84:6:2050:OHX:N1	2.27	0.67
1:AR:3364:C:OP1	84:AR:3443:OHX:N1	2.28	0.67
25:A:738:G:O6	84:A:1974:OHX:N1	2.27	0.67
25:A:835:U:OP1	84:A:2019:OHX:N6	2.26	0.67
79:e0:39:LEU:HG	79:e0:43:ARG:HH21	1.58	0.67
2:3:97:A:O4'	9:o:225:GLN:NE2	2.26	0.67
5:k:53:MET:HG2	5:k:77:THR:HG22	1.75	0.67
25:6:1799:U:H4'	25:6:1800:A:H2'	1.76	0.67
28:9:112:ASP:H	28:9:115:ARG:HB2	1.59	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2828:G:OP1	12:CL:7:ARG:NH1	2.24	0.67
1:AR:2922:G:O6	84:AR:3650:OHX:N2	2.27	0.67
25:A:1073:G:H4'	62:O:10:GLY:HA2	1.77	0.67
54:G:74:ALA:O	65:R:122:ARG:NH2	2.27	0.67
60:c1:17:PRO:HG3	60:c1:63:LEU:HD11	1.75	0.67
2:3:44:C:H4'	7:m:152:ARG:HG3	1.77	0.67
25:6:105:A:OP1	57:s8:18:ARG:NH1	2.27	0.67
25:6:1727:G:O6	84:6:1915:OHX:N2	2.27	0.67
1:AR:1717:U:H2'	1:AR:1718:G:C8	2.30	0.67
1:AR:2356:A:H61	1:AR:2983:C:H5	1.40	0.67
1:AR:2812:C:H2'	1:AR:2813:A:C8	2.30	0.67
68:U:57:ARG:HH21	68:U:80:TYR:HB3	1.58	0.67
1:1:2925:C:O2	84:1:3556:OHX:N1	2.27	0.67
28:DA:86:THR:HG22	28:DA:96:PRO:HA	1.75	0.67
25:A:475:A:OP2	58:K:126:ARG:NH1	2.27	0.67
25:A:1789:G:H8	63:P:132:ARG:HH21	1.43	0.67
50:C:180:THR:HG22	50:C:181:LEU:H	1.59	0.67
59:c0:21:VAL:HB	59:c0:66:TYR:HB2	1.76	0.67
11:q:9:GLN:HG2	11:q:52:LEU:HD11	1.76	0.67
74:a:46:LYS:HE2	74:a:70:LYS:HD2	1.75	0.67
71:d2:15:ASN:HD21	71:d2:71:LYS:HA	1.59	0.67
1:1:300:G:O6	84:1:3684:OHX:N1	2.28	0.67
1:1:781:G:N7	84:1:3478:OHX:N5	2.42	0.67
1:AR:2305:G:OP2	1:AR:2305:G:N2	2.28	0.67
64:Q:29:SER:OG	64:Q:30:THR:N	2.23	0.67
81:sR:106:HIS:ND1	81:sR:128:ASP:OD2	2.28	0.67
18:x:62:ARG:O	84:x:201:OHX:N5	2.28	0.66
22:2:68:THR:OG1	22:2:69:LYS:N	2.24	0.66
25:6:1058:U:H4'	25:6:1059:U:OP1	1.94	0.66
25:6:1764:C:OP1	84:6:1982:OHX:N1	2.29	0.66
1:AR:2854:U:OP2	12:CL:3:ARG:NH2	2.28	0.66
1:AR:3353:G:OP2	84:AR:3727:OHX:N1	2.27	0.66
84:AR:3511:OHX:N2	30:DC:24:LYS:O	2.28	0.66
25:A:1290:U:H2'	25:A:1291:G:C8	2.29	0.66
49:B:69:ASN:OD1	51:D:244:SER:OG	2.12	0.66
81:h:319:ASN:OD1	81:h:319:ASN:N	2.28	0.66
1:1:1839:A:OP2	84:1:3514:OHX:N3	2.27	0.66
17:w:61:ALA:HA	17:w:70:PRO:HD2	1.76	0.66
19:y:86:THR:HG22	19:y:105:ARG:HB2	1.78	0.66
25:6:1193:A:H4'	69:d0:75:GLY:HA2	1.75	0.66
40:AL:31:LEU:HA	40:AL:37:PRO:HA	1.76	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:177:U:H3	1:AR:242:C:H42	1.44	0.66
1:AR:1892:G:N7	84:AR:3615:OHX:N1	2.43	0.66
1:AR:2268:U:H3'	1:AR:2269:U:H5''	1.77	0.66
37:DJ:76:GLN:O	37:DJ:81:ARG:NH1	2.29	0.66
52:s3:72:LEU:HA	59:c0:20:VAL:HG11	1.77	0.66
58:s9:58:ASP:O	58:s9:61:THR:OG1	2.12	0.66
73:d4:94:TYR:HB2	73:d4:96:LEU:HG	1.76	0.66
1:1:944:C:OP1	34:AF:33:ARG:NH1	2.28	0.66
1:1:1514:G:O2'	41:AM:45:ARG:NH2	2.29	0.66
1:1:2128:C:OP1	84:1:3495:OHX:N6	2.28	0.66
10:p:45:ASN:HD21	10:p:47:SER:HB3	1.59	0.66
25:6:1305:U:OP2	25:6:1306:C:N4	2.25	0.66
1:1:317:A:OP2	38:AJ:30:LYS:NZ	2.28	0.66
25:6:373:G:N7	84:6:2047:OHX:N3	2.43	0.66
1:AR:1088:U:OP2	84:AR:3689:OHX:N4	2.28	0.66
1:AR:1487:G:H1	1:AR:1855:U:H3	1.43	0.66
1:AR:2230:C:OP2	84:AR:3721:OHX:N4	2.28	0.66
62:c3:148:ALA:O	84:c3:201:OHX:N4	2.28	0.66
1:1:3019:U:O4	84:1:3527:OHX:N1	2.28	0.66
4:j:204:MET:HB2	4:j:208:ASP:HB2	1.77	0.66
25:6:482:U:H3	25:6:505:A:H61	1.43	0.66
1:AR:1236:G:N2	1:AR:1244:A:OP1	2.28	0.66
13:CM:90:GLN:HG2	13:CM:170:ASP:HB2	1.78	0.66
25:A:1291:G:H22	25:A:1324:G:H22	1.42	0.66
1:1:420:G:O6	84:1:3437:OHX:N6	2.28	0.66
17:w:14:HIS:HE1	17:w:119:VAL:HG12	1.60	0.66
18:x:125:GLN:HB2	18:x:141:SER:HB2	1.76	0.66
32:AD:13:LYS:HB3	32:AD:100:ILE:HG22	1.78	0.66
1:AR:1580:A:H4'	1:AR:1581:C:H5'	1.77	0.66
11:CK:90:MET:HE2	11:CK:179:ILE:HG22	1.77	0.66
25:A:27:U:OP2	84:A:1962:OHX:N3	2.29	0.66
25:A:973:A:H2'	25:A:974:A:C8	2.31	0.66
25:A:1010:C:OP2	84:A:2009:OHX:N6	2.29	0.66
64:Q:121:ILE:HG22	64:Q:123:TYR:H	1.61	0.66
81:sR:10:ARG:NH1	81:sR:51:ASP:OD1	2.28	0.66
1:1:3353:G:H5''	57:J:162:ALA:HA	1.78	0.66
2:3:49:G:N7	7:m:58:LYS:HG3	2.11	0.66
5:k:152:LYS:HG2	5:k:192:VAL:HG11	1.78	0.66
1:AR:440:A:OP1	1:AR:494:G:O2'	2.10	0.66
55:H:7:TYR:HB2	55:H:124:LEU:HG	1.78	0.66
59:L:15:LEU:HD13	59:L:21:VAL:HG23	1.78	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2416:U:H2'	1:1:2417:U:C6	2.31	0.66
29:AA:17:ARG:HG3	36:AH:73:SER:HB3	1.76	0.66
1:AR:2371:G:O6	84:AR:3410:OHX:N2	2.28	0.66
55:H:33:GLY:HA2	55:H:51:LYS:HE2	1.76	0.66
8:n:50:LYS:HE3	8:n:72:ASN:HB2	1.77	0.66
22:2:8:ARG:O	22:2:11:THR:OG1	2.11	0.66
25:6:1672:G:O6	84:6:1915:OHX:N6	2.29	0.66
1:AR:801:A:O2'	84:AR:3531:OHX:N1	2.28	0.66
30:DC:3:SER:O	30:DC:6:THR:HG22	1.96	0.66
1:1:581:U:O4	84:1:3546:OHX:N4	2.29	0.66
1:1:2525:G:O2'	1:1:2526:C:OP2	2.14	0.66
25:6:716:C:H42	25:6:722:G:H1	1.43	0.66
33:AE:23:VAL:O	33:AE:28:ARG:NH1	2.29	0.66
40:DM:44:LYS:HG2	40:DM:53:THR:HB	1.77	0.66
49:s0:63:ILE:HG12	70:d1:36:VAL:HG22	1.77	0.66
81:sR:295:SER:HB3	81:sR:302:PHE:HE2	1.59	0.66
1:1:1233:G:H22	1:1:1255:C:H42	1.42	0.65
25:6:992:A:OP1	84:6:1908:OHX:N1	2.29	0.65
25:6:1142:A:H5''	75:d6:2:PRO:HB3	1.78	0.65
1:AR:155:G:H5''	1:AR:156:G:C8	2.30	0.65
1:AR:549:U:H2'	1:AR:550:A:C8	2.31	0.65
1:AR:1466:G:O6	84:AR:3413:OHX:N5	2.29	0.65
49:s0:92:HIS:HB3	49:s0:182:LEU:HD11	1.78	0.65
25:6:1280:C:H2'	25:6:1281:G:C8	2.30	0.65
41:AM:21:ARG:HD3	41:AM:22:PRO:O	1.97	0.65
1:AR:291:C:H5''	16:CP:68:ARG:HH12	1.60	0.65
13:CM:60:ARG:O	13:CM:63:GLU:HB2	1.97	0.65
25:A:357:G:OP2	84:A:1938:OHX:N3	2.29	0.65
25:A:1140:G:OP2	84:A:1943:OHX:N6	2.29	0.65
1:1:612:U:H2'	1:1:613:G:C8	2.32	0.65
25:6:1542:G:N2	25:6:1569:A:OP2	2.30	0.65
40:DM:46:ARG:HH21	40:DM:51:LEU:HB2	1.61	0.65
50:C:129:THR:HA	50:C:177:GLN:HA	1.77	0.65
1:1:132:C:H2'	1:1:133:U:H5''	1.76	0.65
1:1:371:G:O6	84:1:3713:OHX:N4	2.29	0.65
1:1:565:U:H2'	1:1:566:G:H8	1.62	0.65
1:1:1895:A:O2'	1:1:3053:G:H4'	1.96	0.65
1:AR:1071:U:O4	84:AR:3611:OHX:N3	2.29	0.65
25:A:66:U:C5	55:H:173:PRO:HG3	2.31	0.65
75:d6:58:VAL:HG22	75:d6:59:TYR:H	1.62	0.65
1:1:269:G:H5''	16:v:14:LYS:HE2	1.79	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3197:G:H2'	1:1:3198:U:H5''	1.78	0.65
8:n:52:VAL:HG23	8:n:67:GLY:HA2	1.77	0.65
25:6:1160:A:H2'	25:6:1161:C:C6	2.32	0.65
1:AR:2790:A:O2'	84:AR:3570:OHX:N4	2.30	0.65
6:CF:351:PRO:HA	9:CI:71:ALA:HA	1.79	0.65
25:A:280:U:O2'	25:A:281:G:OP2	2.13	0.65
50:C:171:ILE:HD13	50:C:196:GLU:HG2	1.79	0.65
56:I:64:VAL:HG22	56:I:94:ALA:HB1	1.78	0.65
66:S:85:VAL:HG12	66:S:86:PRO:HA	1.79	0.65
71:X:6:VAL:HG13	71:X:29:PRO:HD2	1.79	0.65
61:c:2:42:ALA:HB2	61:c:2:124:LYS:HD2	1.79	0.65
71:d:2:73:GLY:HA3	71:d:2:128:PHE:CZ	2.32	0.65
4:j:83:HIS:CE1	4:j:86:GLN:HB2	2.32	0.65
6:l:327:LEU:HA	9:o:166:ASN:HD21	1.61	0.65
20:z:169:ALA:HA	20:z:172:ARG:HD2	1.78	0.65
1:AR:3328:G:OP2	84:AR:3538:OHX:N1	2.30	0.65
5:CE:286:GLY:HA3	5:CE:321:PHE:CE1	2.31	0.65
25:A:134:U:OP1	25:A:136:C:N4	2.29	0.65
25:A:1508:U:O4	84:A:1909:OHX:N2	2.30	0.65
54:G:57:SER:O	54:G:59:VAL:N	2.25	0.65
65:R:127:LYS:HA	65:R:134:ALA:HA	1.78	0.65
1:1:1534:A:OP1	84:1:3413:OHX:N1	2.30	0.65
1:1:3316:A:OP1	1:1:3318:G:N2	2.30	0.65
25:6:104:A:H61	25:6:308:C:H5'	1.62	0.65
25:6:245:U:O4	84:6:1978:OHX:N4	2.30	0.65
1:AR:209:A:H4'	1:AR:211:A:N7	2.12	0.65
1:AR:1232:C:O2	47:p0:39:HIS:NE2	2.30	0.65
1:AR:1431:G:N7	30:DC:9:ARG:NH2	2.44	0.65
1:AR:1790:G:O6	84:AR:3696:OHX:N4	2.29	0.65
25:A:480:G:H22	25:A:509:G:H1'	1.61	0.65
25:A:895:G:H1	25:A:917:U:H3	1.44	0.65
25:A:1789:G:OP2	63:P:132:ARG:NH2	2.25	0.65
81:h:291:SER:O	81:h:304:GLY:N	2.25	0.65
2:3:9:C:OP1	22:2:26:HIS:ND1	2.30	0.65
25:A:1488:G:H3'	25:A:1515:A:H61	1.62	0.65
25:A:1523:G:H8	68:U:79:LEU:HD13	1.62	0.65
60:M:99:ARG:NH1	72:Y:7:ARG:O	2.29	0.65
25:6:1690:G:H1	25:6:1711:C:H42	1.44	0.65
1:AR:2731:U:H2'	1:AR:2732:G:H8	1.60	0.65
2:AS:91:G:H2'	2:AS:92:A:C8	2.31	0.65
7:CG:232:ASP:OD1	7:CG:232:ASP:N	2.30	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:CH:43:LEU:HD11	8:CH:85:ILE:HG13	1.79	0.65
25:A:819:G:O2'	25:A:821:U:OP2	2.14	0.65
69:V:67:THR:HG21	78:e:40:ARG:HB2	1.79	0.65
81:h:3:SER:OG	81:h:4:ASN:N	2.29	0.65
55:s6:78:THR:HG23	55:s6:92:ARG:HG2	1.79	0.65
1:1:567:G:O6	84:1:3541:OHX:N1	2.30	0.65
25:6:1565:C:OP1	67:c8:41:ARG:HD3	1.97	0.65
1:AR:314:U:H2'	1:AR:315:C:C6	2.32	0.65
1:AR:832:G:OP1	84:AR:3507:OHX:N5	2.30	0.65
16:CP:73:ARG:HB2	16:CP:89:VAL:HG13	1.79	0.65
28:DA:69:LYS:O	28:DA:83:ASP:N	2.26	0.65
32:DE:34:LEU:HD23	32:DE:59:TYR:HB3	1.79	0.65
33:DF:74:ARG:HH12	33:DF:109:VAL:HG11	1.61	0.65
38:DK:74:LYS:HD2	38:DK:80:PHE:HD1	1.61	0.65
58:K:38:ASN:HB2	58:K:41:GLU:HG3	1.78	0.65
65:R:42:GLU:HA	65:R:45:ARG:HB2	1.79	0.65
72:Y:7:ARG:HB2	72:Y:7:ARG:HH11	1.61	0.65
1:1:1493:G:O6	41:AM:2:ALA:N	2.30	0.64
16:v:118:SER:HB3	16:v:132:VAL:HG13	1.79	0.64
4:CD:96:LEU:O	45:DR:87:ARG:NH1	2.29	0.64
52:E:137:VAL:HG22	52:E:151:LYS:HG3	1.79	0.64
68:U:28:LEU:HD13	68:U:30:VAL:HG22	1.77	0.64
1:1:1543:G:O6	84:1:3595:OHX:N2	2.31	0.64
1:1:2296:A:OP1	84:1:3681:OHX:N2	2.30	0.64
21:O:2:ALA:HB3	21:O:32:SER:HB3	1.79	0.64
25:6:75:U:O2'	25:6:76:A:O4'	2.15	0.64
25:6:383:G:N7	84:6:2007:OHX:N2	2.46	0.64
39:AK:17:THR:HG22	39:AK:18:LEU:H	1.62	0.64
1:AR:900:G:H1'	1:AR:1589:A:N6	2.13	0.64
1:AR:1409:G:O6	84:AR:3661:OHX:N6	2.31	0.64
25:A:461:G:N7	84:A:2021:OHX:N1	2.44	0.64
49:B:21:ASN:HB3	49:B:24:LEU:HD13	1.78	0.64
54:G:206:SER:O	54:G:212:LYS:NZ	2.29	0.64
57:s8:11:ARG:NH1	57:s8:15:GLY:O	2.29	0.64
62:c3:91:LEU:HD12	62:c3:125:LEU:HD12	1.79	0.64
1:1:2155:G:OP2	84:1:3639:OHX:N4	2.29	0.64
5:k:19:ARG:HG3	5:k:273:HIS:NE2	2.13	0.64
25:6:1738:U:O4	84:6:1918:OHX:N2	2.30	0.64
1:AR:1839:A:OP1	84:AR:3536:OHX:N3	2.30	0.64
1:AR:1949:G:OP2	20:CT:135:LYS:NZ	2.31	0.64
1:AR:2123:G:N7	84:AR:3601:OHX:N1	2.46	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:116:VAL:HG12	4:CD:164:GLY:HA3	1.79	0.64
6:CF:44:LYS:HB3	6:CF:47:ARG:NH1	2.11	0.64
45:DR:30:GLU:HA	45:DR:33:GLN:HG2	1.79	0.64
25:A:1169:G:N1	25:A:1575:G:OP2	2.27	0.64
57:J:114:GLU:HG2	57:J:120:THR:HA	1.77	0.64
55:s6:10:ASN:HB3	55:s6:128:THR:HA	1.80	0.64
82:c7:14:LYS:HG3	82:c7:69:ILE:HG23	1.78	0.64
67:c8:2:SER:HB3	67:c8:4:VAL:HG22	1.78	0.64
4:j:225:ILE:HG21	4:j:234:LYS:HA	1.78	0.64
5:k:206:ASP:OD2	5:k:287:LYS:NZ	2.31	0.64
11:q:22:SER:OG	11:q:39:LYS:NZ	2.30	0.64
25:6:1370:U:O4	84:6:2000:OHX:N6	2.30	0.64
41:AM:23:LEU:HD22	41:AM:24:PRO:HD2	1.78	0.64
1:AR:284:A:OP2	44:DQ:41:ARG:NH1	2.30	0.64
1:AR:955:U:H2'	1:AR:956:U:C6	2.32	0.64
6:CF:317:PRO:C	6:CF:319:LYS:H	2.05	0.64
17:CQ:121:PRO:HA	17:CQ:124:LEU:HD22	1.79	0.64
25:A:1111:G:OP2	84:A:2041:OHX:N3	2.31	0.64
25:A:1291:G:N2	25:A:1324:G:H22	1.96	0.64
63:c4:25:ASP:OD1	63:c4:26:THR:N	2.29	0.64
1:1:835:G:O2'	1:1:857:G:N2	2.24	0.64
1:1:1720:U:OP2	20:z:110:ARG:NH1	2.29	0.64
1:1:1852:G:N7	84:1:3516:OHX:N3	2.45	0.64
18:x:129:THR:HG22	18:x:139:TYR:HB2	1.79	0.64
20:z:21:LYS:O	20:z:53:LYS:HB2	1.98	0.64
20:z:86:GLU:OE2	20:z:91:SER:N	2.24	0.64
25:6:845:G:H2'	25:6:846:G:H8	1.61	0.64
12:CL:87:LEU:HD23	12:CL:138:VAL:HG22	1.80	0.64
25:A:1353:U:O4	84:A:1973:OHX:N5	2.30	0.64
52:s3:116:ARG:HG3	52:s3:152:PHE:HE2	1.63	0.64
1:1:3365:U:H2'	1:1:3366:G:C8	2.32	0.64
25:6:355:G:OP1	84:6:1922:OHX:N5	2.31	0.64
30:AB:93:SER:O	30:AB:93:SER:OG	2.16	0.64
30:AB:116:GLY:HA2	30:AB:137:LYS:HE3	1.77	0.64
1:AR:90:C:H2'	1:AR:91:G:H5'	1.78	0.64
2:AS:28:C:OP1	13:CM:137:ARG:NH1	2.28	0.64
11:CK:100:ASN:HB3	11:CK:115:ARG:HB2	1.79	0.64
44:DQ:15:LYS:HD3	44:DQ:18:ARG:HH11	1.62	0.64
55:H:135:PRO:HB2	55:H:141:ILE:HG12	1.78	0.64
66:S:71:PHE:HD1	66:S:73:LEU:HB3	1.62	0.64
1:1:911:C:H42	4:j:3:ARG:HD3	1.63	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2216:G:OP1	38:AJ:75:LYS:NZ	2.31	0.64
5:k:230:THR:HA	5:k:235:THR:HG22	1.80	0.64
25:6:1579:U:OP1	84:6:2043:OHX:N6	2.31	0.64
84:6:1973:OHX:N3	24:CX:133:SER:O	2.31	0.64
46:i:93:ARG:NH1	25:A:1427:A:OP2	2.30	0.64
1:AR:566:G:O6	84:AR:3631:OHX:N2	2.31	0.64
1:AR:3085:G:OP2	84:AR:3407:OHX:N1	2.31	0.64
12:CL:54:SER:HB2	12:CL:135:ILE:HD11	1.80	0.64
14:CN:52:ASP:OD1	14:CN:52:ASP:N	2.29	0.64
25:A:140:A:N6	25:A:281:G:OP1	2.29	0.64
25:A:1745:G:O6	84:A:1964:OHX:N6	2.31	0.64
58:K:53:ARG:NH2	58:K:97:LEU:O	2.30	0.64
1:1:426:G:H5'	34:AF:50:ILE:HG22	1.80	0.64
19:y:133:LYS:HB2	19:y:135:GLN:NE2	2.10	0.64
25:6:159:U:O2'	55:s6:87:ARG:NH1	2.30	0.64
1:AR:1657:C:O2'	1:AR:1797:A:OP2	2.12	0.64
1:AR:2211:U:O4	84:AR:3462:OHX:N4	2.31	0.64
11:CK:8:GLN:HG2	11:CK:68:LEU:HD13	1.80	0.64
16:CP:73:ARG:NH1	16:CP:88:GLY:O	2.29	0.64
18:CR:122:ALA:HB3	18:CR:143:PRO:HB2	1.80	0.64
29:DB:54:THR:H	29:DB:57:HIS:CD2	2.15	0.64
44:DQ:77:CYS:O	44:DQ:79:THR:N	2.30	0.64
25:A:1242:A:OP1	64:Q:59:LYS:NZ	2.28	0.64
49:B:63:ILE:HG12	70:W:36:VAL:HG22	1.79	0.64
54:G:117:THR:HG21	54:G:194:LEU:HD12	1.79	0.64
67:T:83:ALA:HA	67:T:86:LEU:HD23	1.78	0.64
71:X:6:VAL:HG12	71:X:34:ILE:HD11	1.80	0.64
54:s5:140:THR:HG21	54:s5:175:LEU:HD21	1.79	0.64
65:c6:37:THR:O	65:c6:45:ARG:NH1	2.31	0.64
83:e1:147:VAL:HG13	83:e1:148:TYR:HB2	1.79	0.64
1:1:68:C:OP2	1:1:301:G:N2	2.31	0.64
1:AR:291:C:H5''	16:CP:68:ARG:NH1	2.13	0.64
1:AR:549:U:H2'	1:AR:550:A:H8	1.62	0.64
1:AR:838:G:O6	45:DR:4:ARG:NH2	2.31	0.64
25:A:138:A:OP2	25:A:1706:C:O2'	2.16	0.64
25:A:1481:C:O2'	25:A:1482:C:O5'	2.15	0.64
25:A:1599:C:O2	84:A:1988:OHX:N4	2.30	0.64
81:sR:66:HIS:HB3	81:sR:85:TRP:HB2	1.80	0.64
1:1:2683:U:H2'	1:1:2684:C:C6	2.33	0.64
1:1:3055:U:H1'	1:1:3057:U:OP2	1.98	0.64
14:t:14:PHE:HB3	14:t:18:TRP:CD1	2.33	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:AK:60:GLY:HA2	39:AK:64:MET:HE2	1.78	0.64
1:AR:20:A:OP2	37:DJ:90:ARG:NH1	2.31	0.64
1:AR:1740:U:H1'	1:AR:1741:A:H2	1.62	0.64
1:AR:3343:G:H21	1:AR:3362:A:H2	1.45	0.64
11:CK:120:ASP:OD2	11:CK:124:ARG:NH2	2.30	0.64
35:DH:8:TYR:CE2	35:DH:99:ARG:HG2	2.33	0.64
51:s2:230:TRP:CD2	71:d2:68:ARG:HD2	2.33	0.64
64:c5:51:SER:C	64:c5:53:PRO:HD2	2.23	0.64
1:1:155:G:H5''	1:1:156:G:C8	2.32	0.63
1:AR:1383:G:O6	84:AR:3437:OHX:N6	2.31	0.63
11:CK:172:ILE:HD13	11:CK:172:ILE:H	1.63	0.63
24:CX:31:ALA:HB2	24:CX:69:LEU:HD23	1.80	0.63
27:CZ:103:TYR:HB3	27:CZ:135:ILE:HD11	1.80	0.63
49:B:118:PRO:HG2	49:B:141:ILE:HD13	1.79	0.63
69:V:42:VAL:HG13	69:V:52:LYS:HZ2	1.61	0.63
1:1:437:G:OP2	84:1:3720:OHX:N3	2.32	0.63
4:j:133:TYR:HB3	4:j:168:VAL:HG12	1.80	0.63
25:6:563:U:H4'	79:e0:17:GLN:OE1	1.98	0.63
29:AA:51:LEU:HB2	29:AA:65:ARG:HD2	1.80	0.63
1:AR:2249:G:OP1	84:AR:3697:OHX:N6	2.30	0.63
1:AR:2263:C:OP1	84:AR:3456:OHX:N1	2.32	0.63
25:A:651:G:O6	84:A:1981:OHX:N4	2.31	0.63
51:s2:152:HIS:CD2	51:s2:152:HIS:H	2.16	0.63
75:d6:36:ILE:H	75:d6:36:ILE:HD12	1.64	0.63
1:1:624:G:O6	84:1:3698:OHX:N5	2.31	0.63
1:1:870:G:N7	84:1:3459:OHX:N6	2.47	0.63
1:1:2722:U:O2'	22:2:88:ARG:O	2.14	0.63
3:4:43:A:OP1	84:4:212:OHX:N2	2.31	0.63
16:v:149:ASN:OD1	84:v:301:OHX:N2	2.31	0.63
25:A:823:G:H2'	25:A:824:G:C8	2.33	0.63
67:T:41:ARG:NE	68:U:46:PRO:HD3	2.13	0.63
53:s4:159:THR:HB	53:s4:227:VAL:HG23	1.79	0.63
74:d5:42:LEU:HD22	74:d5:47:TYR:HB2	1.80	0.63
74:d5:47:TYR:CZ	74:d5:51:LEU:HD11	2.33	0.63
77:d8:42:ARG:NH2	77:d8:58:GLU:O	2.31	0.63
81:sR:130:THR:HG22	81:sR:145:LEU:HB3	1.81	0.63
1:1:1307:G:H5''	17:w:60:LYS:HZ2	1.64	0.63
1:1:1819:U:O4	84:1:3579:OHX:N4	2.31	0.63
32:AD:13:LYS:NZ	32:AD:99:ASP:OD1	2.31	0.63
2:AS:85:G:N7	84:AS:204:OHX:N6	2.45	0.63
60:M:5:LEU:C	60:M:7:VAL:H	2.06	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:s1:103:MET:HB3	50:s1:215:VAL:HG12	1.80	0.63
1:1:718:G:C2	1:1:721:G:H1'	2.34	0.63
3:4:65:A:O3'	37:AI:10:ARG:NH2	2.32	0.63
12:r:51:HIS:HD2	22:2:160:ILE:HG23	1.61	0.63
14:t:52:ASP:OD1	14:t:52:ASP:N	2.29	0.63
25:6:730:G:O6	84:6:1955:OHX:N3	2.32	0.63
1:AR:373:A:OP1	84:AR:3649:OHX:N6	2.32	0.63
66:S:14:LYS:NZ	66:S:18:GLU:OE2	2.32	0.63
68:U:45:MET:HE3	68:U:46:PRO:HD2	1.79	0.63
53:s4:191:ARG:HD3	53:s4:245:LYS:HB2	1.81	0.63
1:1:837:A:OP2	45:AQ:4:ARG:NH1	2.30	0.63
1:1:1508:C:OP1	18:x:127:ARG:NH2	2.31	0.63
1:1:1541:G:OP2	84:1:3558:OHX:N2	2.31	0.63
1:1:2187:G:OP2	84:1:3540:OHX:N2	2.32	0.63
1:1:2960:C:H2'	1:1:2961:G:H8	1.64	0.63
25:6:885:G:OP1	50:s1:216:LYS:NZ	2.22	0.63
1:AR:3312:U:H5''	5:CE:25:ILE:HD12	1.80	0.63
25:A:83:G:OP2	84:A:1944:OHX:N5	2.31	0.63
1:1:1853:U:OP2	84:1:3572:OHX:N4	2.32	0.63
1:1:2172:A:OP1	84:1:3598:OHX:N4	2.32	0.63
7:m:76:ALA:HB3	7:m:109:THR:HG22	1.79	0.63
25:6:775:G:N7	73:d4:11:LYS:NZ	2.47	0.63
25:6:919:A:H1'	63:c4:36:LYS:HG3	1.80	0.63
1:AR:65:A:H4'	1:AR:66:A:O5'	1.99	0.63
3:AT:136:G:OP1	27:CZ:48:SER:OG	2.16	0.63
25:A:1518:C:OP1	84:A:1998:OHX:N5	2.31	0.63
73:Z:87:PRO:HB2	73:Z:90:ARG:HG3	1.80	0.63
1:1:2982:A:OP1	84:1:3722:OHX:N3	2.32	0.63
3:AT:141:C:OP1	16:CP:109:ARG:NH1	2.32	0.63
11:CK:50:ASN:ND2	15:CO:4:ASP:OD1	2.31	0.63
16:CP:43:THR:OG1	16:CP:131:GLU:OE2	2.16	0.63
25:A:513:U:OP1	58:K:133:HIS:NE2	2.28	0.63
25:A:895:G:H21	63:P:38:THR:HG21	1.63	0.63
25:A:927:C:O2'	63:P:124:ASP:O	2.17	0.63
25:A:1300:A:OP1	51:D:99:LYS:NZ	2.32	0.63
62:c3:127:ARG:HG2	62:c3:127:ARG:HH11	1.64	0.63
73:d4:49:LYS:HD3	73:d4:49:LYS:H	1.63	0.63
1:1:73:C:N3	14:t:59:ARG:NH1	2.46	0.63
1:1:1659:U:O4	84:1:3702:OHX:N4	2.31	0.63
5:k:133:TYR:HA	5:k:136:LYS:HE3	1.81	0.63
11:q:105:GLU:HG3	11:q:109:ALA:H	1.63	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:628:G:N2	25:6:970:A:OP2	2.28	0.63
34:AF:97:ALA:HB3	34:AF:100:ILE:HG12	1.80	0.63
1:AR:393:U:OP2	84:AR:3453:OHX:N1	2.32	0.63
1:AR:972:A:OP1	19:CS:12:ARG:NH2	2.30	0.63
17:CQ:33:ILE:HG22	17:CQ:102:LEU:HD12	1.81	0.63
19:CS:133:LYS:HB2	19:CS:135:GLN:HE22	1.63	0.63
20:CT:105:LEU:HD13	20:CT:138:LEU:HD12	1.80	0.63
25:A:1498:G:H5''	68:U:72:GLY:HA3	1.81	0.63
57:J:66:SER:HA	57:J:73:SER:HA	1.80	0.63
53:s4:161:LYS:HB3	53:s4:170:THR:O	1.99	0.63
82:c7:22:PRO:HB3	82:c7:73:LEU:HD11	1.81	0.63
76:d7:58:SER:O	76:d7:60:SER:N	2.28	0.63
81:sR:17:ASN:O	81:sR:39:ASP:HB3	1.98	0.63
1:1:1794:G:H4'	4:j:191:LEU:HD13	1.79	0.62
1:1:2247:G:OP1	84:1:3603:OHX:N6	2.32	0.62
1:1:2255:A:OP1	84:1:3471:OHX:N3	2.31	0.62
1:AR:2897:A:H2'	1:AR:2899:C:H5''	1.80	0.62
27:CZ:46:TYR:HD2	37:DJ:75:TYR:HB3	1.64	0.62
25:A:1520:U:OP2	68:U:75:LYS:NZ	2.32	0.62
65:R:79:TYR:HA	65:R:82:ARG:HD3	1.81	0.62
1:1:1720:U:P	20:z:110:ARG:HH12	2.22	0.62
2:3:3:U:H2'	2:3:4:U:C6	2.33	0.62
20:z:23:TRP:HB3	20:z:51:VAL:HG22	1.81	0.62
46:i:110:TRP:HA	52:E:115:ILE:HG21	1.82	0.62
1:AR:1580:A:H5'	1:AR:2522:G:N7	2.13	0.62
5:CE:25:ILE:HD13	5:CE:25:ILE:N	2.14	0.62
5:CE:123:TYR:CE1	5:CE:124:LYS:HG3	2.34	0.62
20:CT:25:ASP:HB3	20:CT:28:GLU:HB2	1.81	0.62
25:A:1764:C:OP1	84:A:1970:OHX:N5	2.32	0.62
51:D:179:VAL:O	51:D:198:THR:OG1	2.12	0.62
49:s0:16:LEU:HB3	49:s0:172:LEU:HD11	1.80	0.62
5:k:208:VAL:O	5:k:340:LYS:NZ	2.24	0.62
7:m:120:LYS:O	7:m:248:ARG:NH2	2.33	0.62
9:o:145:ARG:HA	9:o:185:ILE:HD13	1.80	0.62
24:l2:66:LYS:HB2	24:l2:69:LEU:HD22	1.81	0.62
25:6:982:U:O4	25:6:983:A:N6	2.31	0.62
25:6:1524:A:H2'	25:6:1525:A:C8	2.34	0.62
25:A:878:G:N7	84:A:1959:OHX:N2	2.47	0.62
72:Y:69:ARG:NH1	72:Y:116:ASP:OD2	2.33	0.62
50:s1:227:ALA:O	50:s1:231:LEU:HB3	1.99	0.62
68:c9:53:TRP:HH2	68:c9:100:ILE:HD12	1.63	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:23:A:OP1	84:1:3406:OHX:N5	2.33	0.62
1:1:807:A:H61	1:1:934:G:H22	1.47	0.62
1:1:3319:U:O2'	1:1:3320:A:OP1	2.15	0.62
6:l:36:HIS:O	6:l:40:THR:HG23	2.00	0.62
10:p:46:LEU:O	10:p:49:TYR:N	2.30	0.62
11:q:90:MET:HE2	11:q:179:ILE:HG22	1.81	0.62
32:AD:22:LYS:HB2	32:AD:94:GLU:HB2	1.81	0.62
35:AG:75:HIS:HB3	35:AG:80:VAL:HB	1.81	0.62
44:AP:50:PHE:O	84:AP:502:OHX:N2	2.33	0.62
9:CI:30:ARG:NH2	9:CI:33:ARG:HH22	1.97	0.62
25:A:1769:U:OP2	84:A:2023:OHX:N4	2.33	0.62
78:e:5:ASN:OD1	78:e:7:TRP:NE1	2.32	0.62
53:s4:248:ILE:HA	53:s4:251:GLU:HB2	1.81	0.62
54:s5:42:LEU:HD12	54:s5:45:LYS:HD3	1.82	0.62
59:c0:32:HIS:CD2	59:c0:33:GLU:H	2.17	0.62
74:d5:59:TYR:HE1	74:d5:100:ILE:HG23	1.63	0.62
1:1:129:U:O4	84:1:3427:OHX:N5	2.32	0.62
5:k:257:PRO:HG2	5:k:261:MET:HE3	1.81	0.62
51:s2:53:ILE:HD12	51:s2:53:ILE:H	1.64	0.62
1:1:2094:C:H2'	1:1:2095:G:H8	1.64	0.62
1:1:2228:A:H2'	1:1:2229:A:C8	2.33	0.62
25:6:4:C:O2'	58:s9:17:ARG:NH1	2.33	0.62
25:6:407:A:H2'	25:6:408:C:C6	2.34	0.62
25:6:1648:A:H2'	25:6:1649:G:C8	2.35	0.62
84:6:1994:OHX:N4	69:d0:76:SER:OG	2.32	0.62
29:AA:88:ASP:HB3	29:AA:121:ARG:HH12	1.64	0.62
1:AR:911:C:H5''	4:CD:15:ILE:HD13	1.81	0.62
1:AR:2169:G:O6	84:AR:3454:OHX:N5	2.32	0.62
1:AR:3295:A:H2'	1:AR:3296:A:C8	2.35	0.62
6:CF:192:GLY:HA2	6:CF:195:ARG:HG3	1.81	0.62
15:CO:22:LEU:HB3	15:CO:64:VAL:HG13	1.81	0.62
20:CT:21:LYS:O	20:CT:53:LYS:HB2	2.00	0.62
30:DC:112:ILE:HB	30:DC:130:VAL:HG12	1.80	0.62
25:A:1233:G:OP2	84:A:2030:OHX:N5	2.33	0.62
25:A:1362:U:O2'	25:A:1363:U:O2	2.14	0.62
70:W:79:LEU:HD22	70:W:82:VAL:HG21	1.81	0.62
81:h:20:VAL:O	81:h:291:SER:OG	2.13	0.62
59:c0:55:VAL:HB	59:c0:68:LEU:HD12	1.82	0.62
82:c7:51:ALA:O	82:c7:55:THR:OG1	2.13	0.62
76:d7:43:ILE:HD13	76:d7:43:ILE:H	1.64	0.62
2:3:26:C:H5'	7:m:56:THR:HB	1.82	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:r:24:ARG:HB2	12:r:24:ARG:HH11	1.64	0.62
25:6:918:U:H2'	25:6:919:A:C8	2.32	0.62
25:6:1455:G:OP1	64:c5:122:THR:HG21	1.99	0.62
25:6:1569:A:OP2	25:6:1569:A:H8	1.82	0.62
27:CZ:73:MET:HE1	27:CZ:141:TYR:HE1	1.65	0.62
32:DE:100:ILE:HG13	32:DE:101:LEU:HD22	1.81	0.62
51:D:157:LYS:HD3	51:D:168:ARG:HH21	1.65	0.62
60:M:14:GLN:HB3	60:M:54:ILE:HG21	1.81	0.62
63:P:25:ASP:OD1	63:P:26:THR:N	2.32	0.62
63:P:30:VAL:HG13	63:P:39:ILE:HG13	1.80	0.62
74:a:38:HIS:CG	74:a:39:ALA:H	2.18	0.62
51:s2:106:ASP:OD1	51:s2:106:ASP:N	2.32	0.62
52:s3:135:GLU:HB2	52:s3:157:LEU:HD11	1.82	0.62
62:c3:26:PHE:CZ	62:c3:28:LEU:HB2	2.35	0.62
1:1:109:A:H4'	1:1:110:G:OP1	2.00	0.62
22:2:17:ARG:HG3	22:2:22:HIS:HA	1.82	0.62
25:A:730:G:O6	84:A:2034:OHX:N4	2.32	0.62
25:A:1550:A:P	64:Q:42:ARG:HH21	2.22	0.62
76:c:14:SER:HA	76:c:17:ARG:HG2	1.80	0.62
81:h:221:MET:HG2	81:h:233:THR:HG23	1.82	0.62
51:s2:67:GLN:OE1	51:s2:67:GLN:N	2.29	0.62
68:c9:33:TYR:HD1	68:c9:34:VAL:H	1.46	0.62
1:1:1073:U:H1'	31:AC:50:THR:HB	1.82	0.62
8:n:102:ASN:OD1	8:n:105:TYR:N	2.33	0.62
16:v:143:ARG:NH2	37:AI:91:ALA:O	2.33	0.62
25:6:138:A:N6	25:6:266:A:H61	1.97	0.62
1:AR:430:U:OP2	84:AR:3484:OHX:N2	2.32	0.62
1:AR:2242:A:H5''	4:CD:244:GLY:HA3	1.80	0.62
48:sM:74:LYS:HD2	64:c5:129:GLY:HA3	1.80	0.62
25:A:452:A:H3'	25:A:453:U:C6	2.35	0.62
25:A:823:G:O2'	25:A:824:G:O4'	2.16	0.62
25:A:1479:A:H2'	25:A:1480:G:H8	1.63	0.62
51:D:45:VAL:HG21	51:D:68:ILE:HG23	1.80	0.62
62:O:84:ILE:HB	62:O:88:LEU:HD12	1.82	0.62
65:R:115:THR:HA	65:R:118:ILE:HG23	1.81	0.62
76:c:36:LYS:HB3	76:c:43:ILE:HG22	1.81	0.62
1:1:824:C:H5''	4:j:21:ARG:HG3	1.82	0.62
1:1:842:G:OP2	84:1:3709:OHX:N1	2.31	0.62
1:1:1940:G:H21	1:1:3362:A:H8	1.45	0.62
3:4:126:A:O2'	3:4:128:U:OP1	2.18	0.62
25:6:86:A:H2'	25:6:87:C:H6	1.65	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1073:G:O6	84:6:1997:OHX:N5	2.32	0.62
6:CF:140:HIS:NE2	6:CF:246:ARG:HG2	2.15	0.62
20:CT:175:GLN:HA	20:CT:178:ALA:HB3	1.80	0.62
29:DB:41:ALA:HB2	29:DB:77:TYR:HE1	1.64	0.62
25:A:337:G:H3'	60:M:133:LYS:HB2	1.81	0.62
25:A:656:G:O2'	25:A:657:U:O4'	2.18	0.62
25:A:1234:A:OP2	84:A:2030:OHX:N3	2.32	0.62
53:s4:121:TYR:OH	53:s4:235:TYR:O	2.16	0.62
1:1:715:A:H8	30:AB:115:LYS:HG2	1.64	0.61
2:3:4:U:H2'	2:3:5:G:C8	2.35	0.61
6:l:294:GLU:H	6:l:294:GLU:CD	2.08	0.61
25:6:478:A:OP1	79:e0:37:ARG:NH1	2.33	0.61
1:AR:1833:G:OP1	41:DN:10:LYS:NZ	2.28	0.61
1:AR:2793:G:H5''	44:DQ:66:LYS:HG2	1.81	0.61
17:CQ:22:VAL:HG21	17:CQ:120:VAL:HG11	1.80	0.61
30:DC:36:GLY:HA3	30:DC:40:HIS:CE1	2.35	0.61
76:c:56:CYS:SG	76:c:57:GLU:N	2.71	0.61
64:c5:19:GLY:N	67:c8:94:ASP:O	2.32	0.61
1:1:733:G:N7	84:1:3604:OHX:N6	2.48	0.61
18:x:168:LEU:HD13	18:x:173:ARG:HB3	1.81	0.61
24:l2:79:VAL:HG23	24:l2:80:ARG:HG3	1.82	0.61
1:AR:1806:A:OP2	84:AR:3527:OHX:N3	2.33	0.61
1:AR:3263:G:N7	84:AR:3620:OHX:N2	2.46	0.61
15:CO:135:LEU:HD11	17:CQ:178:VAL:HG22	1.82	0.61
29:DB:50:PRO:HD3	29:DB:68:ILE:HG12	1.83	0.61
41:DN:10:LYS:HA	41:DN:13:MET:HE3	1.81	0.61
25:A:220:A:H5''	25:A:832:U:H1'	1.82	0.61
55:H:71:THR:OG1	55:H:72:ARG:N	2.30	0.61
66:S:20:TYR:CE1	66:S:38:ILE:HD11	2.35	0.61
82:c7:13:SER:HA	82:c7:54:THR:HG22	1.82	0.61
25:6:359:A:N6	72:d3:39:LYS:HE3	2.16	0.61
1:AR:656:A:H2'	1:AR:657:A:C8	2.34	0.61
1:AR:678:G:N7	84:AR:3518:OHX:N2	2.48	0.61
5:CE:188:ILE:HD12	5:CE:189:SER:H	1.64	0.61
40:DM:27:ILE:HB	40:DM:78:LEU:HD11	1.80	0.61
25:A:442:C:O2'	25:A:525:A:N1	2.32	0.61
58:K:109:LEU:HB2	58:K:146:PHE:HB3	1.81	0.61
75:b:35:ALA:HB3	75:b:37:LYS:HE2	1.82	0.61
1:1:864:G:OP2	84:1:3420:OHX:N2	2.33	0.61
1:1:1594:A:OP1	36:AH:36:LYS:NZ	2.28	0.61
1:1:1892:G:O6	84:1:3616:OHX:N1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:584:C:H1'	79:e0:18:THR:HG21	1.81	0.61
84:6:1973:OHX:N5	24:CX:133:SER:O	2.33	0.61
24:CX:23:MET:HE3	24:CX:100:GLY:HA3	1.82	0.61
36:DI:8:ARG:HH21	36:DI:31:ARG:HG2	1.64	0.61
53:F:193:GLY:HA3	53:F:210:ILE:CG2	2.30	0.61
59:L:23:ALA:O	59:L:64:TYR:HB2	2.00	0.61
49:s0:198:MET:HG2	49:s0:199:PRO:HD2	1.81	0.61
1:1:977:C:OP1	19:y:141:ARG:NH2	2.33	0.61
1:1:1615:C:OP1	84:1:3712:OHX:N3	2.33	0.61
1:1:2794:G:O2'	1:1:2795:U:OP2	2.17	0.61
5:k:23:ALA:O	84:k:401:OHX:N6	2.34	0.61
25:6:489:C:O2'	25:6:490:C:O4'	2.17	0.61
25:6:868:G:H1	25:6:960:U:H3	1.48	0.61
1:AR:121:A:C2	10:CJ:129:PRO:HB3	2.35	0.61
1:AR:3075:G:O6	84:AR:3606:OHX:N6	2.34	0.61
1:AR:3214:U:OP2	15:CO:128:ARG:NH2	2.33	0.61
12:CL:68:ALA:HB2	12:CL:158:LYS:HB2	1.83	0.61
29:DB:78:ASN:OD1	32:DE:35:ARG:NH1	2.33	0.61
25:A:320:U:H3'	25:A:321:C:H5''	1.82	0.61
25:A:1160:A:OP2	65:R:142:TYR:OH	2.19	0.61
68:U:77:ASN:HB3	68:U:95:ASP:HB3	1.80	0.61
81:h:13:LEU:HB2	81:h:310:ILE:HB	1.83	0.61
56:s7:11:GLN:HG2	56:s7:12:ALA:H	1.66	0.61
81:sR:206:PRO:HG2	81:sR:247:PRO:HA	1.81	0.61
81:sR:249:ARG:NH1	81:sR:298:GLY:O	2.33	0.61
1:1:1844:C:O2	39:AK:9:GLY:HA2	2.01	0.61
25:6:947:U:H2'	25:6:948:G:C8	2.36	0.61
1:AR:1108:U:H2'	1:AR:1109:U:H6	1.66	0.61
1:AR:2424:A:N1	4:CD:230:VAL:HG21	2.15	0.61
3:AT:74:U:O2	84:AT:208:OHX:N5	2.33	0.61
7:CG:297:GLN:HA	84:CG:302:OHX:N1	2.16	0.61
14:CN:89:TYR:CE1	14:CN:93:ILE:HD11	2.35	0.61
28:DA:73:VAL:HA	28:DA:80:VAL:HG23	1.82	0.61
49:B:117:GLU:O	51:D:40:LYS:NZ	2.33	0.61
64:c5:15:HIS:H	64:c5:22:LEU:HD22	1.65	0.61
64:c5:68:PRO:O	84:c5:201:OHX:N5	2.34	0.61
72:d3:103:LEU:HD12	72:d3:126:LYS:HD3	1.82	0.61
1:1:410:U:O4	84:1:3594:OHX:N2	2.33	0.61
1:1:872:U:H2'	1:1:873:C:C6	2.36	0.61
14:t:159:VAL:HB	30:AB:96:LYS:HG2	1.81	0.61
25:6:87:C:O2'	25:6:169:A:N1	2.32	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:108:PRO:O	4:CD:111:THR:OG1	2.15	0.61
5:CE:187:SER:O	5:CE:190:GLU:N	2.33	0.61
25:A:329:G:O6	84:A:1984:OHX:N6	2.34	0.61
25:A:491:C:N3	25:A:496:G:N2	2.43	0.61
25:A:631:G:H2'	25:A:632:U:C6	2.35	0.61
73:Z:5:VAL:O	73:Z:6:THR:OG1	2.17	0.61
79:e0:49:LEU:H	79:e0:49:LEU:HD22	1.65	0.61
3:4:62:C:O2	84:4:204:OHX:N5	2.34	0.61
24:l2:48:ARG:HH11	24:l2:48:ARG:HG3	1.66	0.61
25:6:58:U:O2'	25:6:451:A:N3	2.31	0.61
1:AR:2284:C:O2	84:AR:3678:OHX:N1	2.34	0.61
3:AT:41:A:H4'	39:DL:59:THR:HG22	1.83	0.61
8:CH:40:LEU:HD13	8:CH:84:VAL:HG11	1.81	0.61
15:CO:38:ILE:HD12	21:CU:150:PHE:HE1	1.65	0.61
18:CR:11:PRO:HA	18:CR:14:SER:HB2	1.83	0.61
21:CU:12:ARG:HB3	21:CU:24:LEU:HD23	1.83	0.61
25:A:800:U:H2'	25:A:801:G:H8	1.64	0.61
25:A:867:G:H21	62:O:87:ASP:HB3	1.64	0.61
25:A:1097:U:O2'	51:D:159:THR:OG1	2.17	0.61
51:D:144:TRP:CE2	51:D:173:PRO:HG3	2.36	0.61
54:G:55:ASP:HB3	54:G:58:LEU:HD12	1.83	0.61
1:l:284:A:OP2	44:AP:41:ARG:NH1	2.34	0.61
6:l:62:ALA:HB3	6:l:90:PHE:HE2	1.66	0.61
7:m:236:LEU:HD12	7:m:239:ILE:HD12	1.83	0.61
25:6:825:U:O4	84:6:1921:OHX:N3	2.33	0.61
1:AR:2881:C:H2'	1:AR:2882:U:C6	2.36	0.61
1:AR:3253:G:N7	84:AR:3736:OHX:N1	2.49	0.61
2:AS:91:G:H2'	2:AS:92:A:H8	1.65	0.61
18:CR:40:GLU:HB3	18:CR:43:LYS:HG3	1.82	0.61
37:DJ:85:THR:HG22	37:DJ:88:LEU:H	1.65	0.61
47:p0:25:LEU:HD13	47:p0:88:PHE:CE1	2.36	0.61
25:A:1297:G:N2	25:A:1300:A:OP2	2.34	0.61
77:d:12:VAL:HA	77:d:30:VAL:HG12	1.82	0.61
54:s5:143:ARG:NH1	54:s5:218:GLU:OE2	2.34	0.61
54:s5:146:THR:OG1	54:s5:147:THR:N	2.34	0.61
58:s9:23:ARG:NH1	58:s9:27:GLU:OE2	2.31	0.61
75:d6:10:ARG:HH12	75:d6:36:ILE:HG13	1.66	0.61
1:l:1288:U:H2'	1:l:1289:G:H8	1.65	0.61
1:l:1631:C:OP2	29:AA:48:ARG:NH2	2.33	0.61
1:l:3008:A:N7	84:1:3438:OHX:N5	2.48	0.61
22:2:44:ALA:HB2	22:2:53:PRO:HG2	1.83	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1251:U:H4'	83:e1:134:ASN:H	1.64	0.61
25:6:1537:C:O2'	25:6:1540:G:O6	2.18	0.61
25:6:1650:U:H2'	25:6:1651:A:C8	2.36	0.61
39:AK:69:HIS:HB3	39:AK:72:ARG:NH2	2.16	0.61
1:AR:44:U:O3'	84:AR:3509:OHX:N2	2.34	0.61
1:AR:1108:U:H2'	1:AR:1109:U:C6	2.36	0.61
7:CG:111:GLN:HA	7:CG:116:ASP:HB2	1.83	0.61
10:CJ:156:ASP:OD1	10:CJ:156:ASP:N	2.33	0.61
25:A:218:A:N6	25:A:844:A:H1'	2.15	0.61
51:D:101:VAL:HG22	51:D:115:ILE:HG12	1.82	0.61
1:l:1174:G:N2	17:w:87:MET:HE2	2.16	0.60
7:m:237:GLU:O	7:m:241:THR:OG1	2.16	0.60
14:t:171:ARG:HH21	14:t:171:ARG:HB3	1.66	0.60
25:6:1648:A:H2'	25:6:1649:G:H8	1.65	0.60
1:AR:1409:G:OP1	84:AR:3530:OHX:N5	2.34	0.60
1:AR:3316:A:OP1	1:AR:3318:G:N2	2.33	0.60
14:CN:76:THR:OG1	14:CN:77:LEU:N	2.34	0.60
25:A:1784:C:H2'	25:A:1785:U:C6	2.35	0.60
49:s0:185:ARG:H	70:d1:44:ARG:HA	1.67	0.60
56:s7:30:SER:HB2	56:s7:34:LEU:HB2	1.81	0.60
81:sR:167:VAL:HG23	81:sR:183:LEU:HB2	1.82	0.60
6:l:292:SER:OG	6:l:293:SER:N	2.30	0.60
11:q:106:LYS:H	11:q:109:ALA:HB3	1.64	0.60
25:6:140:A:H1'	55:s6:179:VAL:HG21	1.82	0.60
28:9:47:ALA:O	28:9:122:LYS:NZ	2.33	0.60
41:AM:44:TRP:CH2	41:AM:45:ARG:HG3	2.36	0.60
1:AR:1701:C:H2'	1:AR:1702:U:O4'	2.02	0.60
25:A:16:G:H2'	25:A:17:C:C6	2.36	0.60
25:A:1784:C:H2'	25:A:1785:U:H6	1.66	0.60
80:g:135:HIS:HB2	80:g:138:ARG:HB2	1.83	0.60
65:c6:18:ALA:HB2	65:c6:69:VAL:HG13	1.82	0.60
67:c8:65:GLU:HG2	67:c8:68:ARG:HH21	1.66	0.60
1:l:1365:G:OP2	84:l:3505:OHX:N3	2.34	0.60
1:l:2386:A:OP1	84:l:3563:OHX:N1	2.34	0.60
13:s:115:LYS:HG2	13:s:116:TYR:H	1.66	0.60
23:5:18:ASP:HB3	23:5:104:ARG:HB2	1.82	0.60
25:A:1701:A:H3'	25:A:1702:A:H5''	1.83	0.60
50:C:131:ASP:HB3	50:C:180:THR:HG23	1.84	0.60
57:J:117:TYR:CD1	57:J:150:ALA:HB2	2.36	0.60
65:R:110:THR:HA	65:R:113:ASP:HB2	1.83	0.60
51:s2:140:ARG:NH2	51:s2:226:THR:OG1	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
58:s9:171:ARG:CZ	58:s9:174:ARG:HD3	2.31	0.60
63:c4:89:THR:O	63:c4:128:LYS:NZ	2.32	0.60
1:1:290:G:H5''	16:v:98:LEU:HD23	1.82	0.60
1:1:1634:G:OP1	29:AA:107:ARG:NH1	2.35	0.60
1:1:2881:C:H2'	1:1:2882:U:H6	1.65	0.60
1:1:3043:C:OP2	24:l2:48:ARG:NH2	2.35	0.60
2:3:121:U:OP2	7:m:265:TYR:OH	2.13	0.60
6:l:33:ASP:O	6:l:37:THR:HG23	2.00	0.60
14:t:48:PRO:HA	14:t:137:GLN:HB3	1.82	0.60
25:6:947:U:H2'	25:6:948:G:H8	1.66	0.60
1:AR:673:U:OP1	19:CS:21:SER:OG	2.14	0.60
1:AR:1804:A:H2'	1:AR:1805:C:C6	2.36	0.60
1:AR:2700:G:O2'	1:AR:2705:A:N1	2.34	0.60
3:AT:16:G:OP1	84:AT:218:OHX:N2	2.34	0.60
11:CK:129:ARG:O	11:CK:132:VAL:HG22	2.02	0.60
13:CM:37:LEU:HD12	13:CM:67:VAL:HG23	1.83	0.60
24:CX:45:ARG:HD2	24:CX:46:LEU:H	1.66	0.60
49:B:154:GLU:HA	70:W:63:GLY:HA2	1.83	0.60
53:F:105:VAL:HG13	53:F:243:GLY:HA2	1.83	0.60
65:R:32:ASN:N	65:R:67:VAL:O	2.29	0.60
67:T:24:GLY:O	67:T:59:GLY:N	2.34	0.60
81:sR:169:ILE:HG12	81:sR:183:LEU:HD21	1.83	0.60
1:1:863:C:OP1	84:1:3420:OHX:N6	2.34	0.60
1:1:1233:G:H22	1:1:1255:C:N4	1.99	0.60
1:1:2683:U:H2'	1:1:2684:C:H6	1.66	0.60
1:1:3289:G:N7	84:1:3665:OHX:N4	2.48	0.60
1:1:3294:A:H5'	5:k:128:LYS:HG3	1.82	0.60
25:6:1140:G:OP2	84:6:1927:OHX:N3	2.35	0.60
1:AR:1189:C:N4	17:CQ:133:ARG:HE	1.98	0.60
1:AR:2724:U:OP1	22:CV:57:TYR:OH	2.15	0.60
35:DH:90:PRO:O	35:DH:92:LYS:N	2.33	0.60
47:p0:190:VAL:HB	47:p0:197:PHE:HB2	1.83	0.60
55:H:163:THR:HA	55:H:168:THR:HA	1.83	0.60
52:s3:11:LEU:HD13	69:d0:29:THR:HG23	1.84	0.60
55:s6:98:ARG:HD2	55:s6:99:GLY:N	2.17	0.60
82:c7:33:ARG:HH21	81:sR:109:ASP:CG	2.10	0.60
1:1:1596:C:H2'	1:1:1597:C:C6	2.37	0.60
1:1:2820:A:OP1	84:1:3441:OHX:N5	2.34	0.60
1:1:3121:U:H1'	1:1:3122:A:H5''	1.84	0.60
1:1:3143:C:O2'	84:1:3437:OHX:N2	2.35	0.60
28:9:73:VAL:HA	28:9:80:VAL:HG23	1.83	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:AA:26:VAL:HG21	29:AA:96:VAL:HB	1.83	0.60
30:AB:94:ALA:HB1	30:AB:121:VAL:HG13	1.84	0.60
37:AI:29:ALA:HA	37:AI:32:LYS:HE2	1.82	0.60
1:AR:1098:A:O2'	22:CV:130:ARG:O	2.16	0.60
1:AR:3098:G:N7	84:AR:3421:OHX:N6	2.50	0.60
44:DQ:25:VAL:HG22	44:DQ:72:LEU:HD22	1.84	0.60
62:O:150:VAL:O	84:O:201:OHX:N3	2.35	0.60
81:h:260:ILE:HB	81:h:274:LEU:HB2	1.84	0.60
65:c6:110:THR:HA	65:c6:113:ASP:HB2	1.83	0.60
67:c8:36:LYS:HB3	67:c8:105:VAL:HG11	1.83	0.60
1:1:1719:G:OP2	20:z:121:HIS:ND1	2.32	0.60
1:1:1952:G:H3'	1:1:1953:G:H5''	1.82	0.60
1:1:3049:A:H5'	1:1:3049:A:H8	1.65	0.60
2:3:3:U:H2'	2:3:4:U:H6	1.67	0.60
1:AR:665:A:OP1	16:CP:203:ARG:NH1	2.35	0.60
1:AR:770:G:N7	84:AR:3598:OHX:N6	2.49	0.60
1:AR:1307:G:C2	1:AR:1308:A:C2	2.90	0.60
3:AT:83:C:H1'	3:AT:85:G:N2	2.16	0.60
5:CE:169:THR:HG23	5:CE:171:LEU:H	1.66	0.60
5:CE:230:THR:HA	5:CE:235:THR:HG23	1.82	0.60
8:CH:40:LEU:HD11	8:CH:54:TYR:HB2	1.82	0.60
25:A:523:G:OP2	73:Z:37:LYS:NZ	2.35	0.60
25:A:1291:G:H22	25:A:1324:G:N2	1.99	0.60
55:H:186:ARG:O	55:H:190:GLN:HG2	2.01	0.60
65:c6:99:GLU:N	81:sR:58:VAL:O	2.31	0.60
81:sR:178:VAL:HB	81:sR:192:PHE:HB2	1.84	0.60
1:1:994:G:O6	84:1:3624:OHX:N2	2.35	0.60
1:1:2261:G:O2'	1:1:2263:C:N4	2.35	0.60
1:1:2751:G:N7	84:1:3644:OHX:N6	2.50	0.60
25:6:419:G:N7	84:6:1973:OHX:N1	2.49	0.60
25:6:523:G:H5'	73:d4:60:PHE:O	2.02	0.60
35:AG:49:ILE:N	35:AG:69:GLY:O	2.25	0.60
1:AR:1013:G:O6	1:AR:1036:A:N6	2.35	0.60
1:AR:2629:U:O4	22:CV:2:GLY:N	2.35	0.60
5:CE:76:VAL:HG12	5:CE:325:LYS:HA	1.82	0.60
21:CU:77:VAL:HG22	21:CU:126:VAL:HG22	1.83	0.60
25:A:623:A:OP1	84:A:2035:OHX:N1	2.35	0.60
81:h:50:ASP:N	81:h:50:ASP:OD1	2.34	0.60
51:s2:149:GLY:H	70:d1:4:ASP:HB2	1.65	0.60
54:s5:36:ALA:HB1	54:s5:45:LYS:HD2	1.84	0.60
57:s8:138:ASN:HA	57:s8:141:ARG:HB2	1.82	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:c8:30:TYR:HE2	67:c8:40:ARG:HH11	1.49	0.60
71:d2:8:ALA:HB2	71:d2:74:VAL:HG11	1.84	0.60
1:1:263:C:H2'	1:1:264:G:O4'	2.02	0.60
1:1:1222:G:O2'	1:1:1285:G:N1	2.35	0.60
1:1:1814:A:OP1	84:1:3628:OHX:N2	2.34	0.60
1:1:2611:U:H2'	1:1:2612:U:C6	2.37	0.60
13:s:15:GLU:HB3	13:s:130:VAL:HG13	1.84	0.60
25:6:1489:U:H5'	25:6:1494:C:H1'	1.84	0.60
7:CG:226:TYR:HE2	7:CG:236:LEU:HD11	1.67	0.60
25:A:197:A:H61	57:J:138:ASN:HD22	1.50	0.60
65:R:40:GLU:HA	65:R:42:GLU:N	2.16	0.60
64:c5:123:TYR:OH	67:c8:126:ARG:NH1	2.35	0.60
73:d4:42:GLU:HG3	73:d4:52:LYS:HE3	1.82	0.60
77:d8:15:VAL:HA	77:d8:28:VAL:HG23	1.84	0.60
81:sR:16:HIS:ND1	81:sR:39:ASP:OD2	2.34	0.60
4:j:27:ALA:O	4:j:128:ARG:NH2	2.34	0.60
17:w:35:VAL:HG21	17:w:80:PHE:HE2	1.67	0.60
17:w:36:VAL:HG11	17:w:108:ILE:HG23	1.84	0.60
20:z:105:LEU:HD13	20:z:138:LEU:HD12	1.84	0.60
25:6:1011:G:OP2	84:6:1976:OHX:N4	2.35	0.60
1:AR:129:U:H2'	1:AR:130:A:C8	2.37	0.60
1:AR:2120:A:OP2	84:AR:3573:OHX:N4	2.34	0.60
8:CH:47:PHE:O	8:CH:50:LYS:HB2	2.02	0.60
18:CR:78:VAL:HG22	18:CR:80:LYS:H	1.66	0.60
24:CX:2:SER:N	24:CX:57:MET:H	2.00	0.60
35:DH:90:PRO:C	35:DH:92:LYS:H	2.10	0.60
25:A:1034:C:HO2'	71:X:2:THR:N	1.99	0.60
53:F:122:LYS:HD2	53:F:164:LEU:HD21	1.82	0.60
53:F:129:VAL:HB	53:F:139:VAL:HG12	1.84	0.60
65:R:123:ARG:HG3	65:R:124:PRO:HD2	1.82	0.60
66:S:71:PHE:CD1	66:S:73:LEU:HB3	2.36	0.60
73:Z:62:THR:HA	73:Z:69:SER:HA	1.84	0.60
65:c6:55:VAL:HG21	65:c6:89:LEU:HD21	1.84	0.60
1:1:1278:A:O2'	1:1:1279:C:O5'	2.19	0.59
1:1:1485:G:OP2	84:1:3689:OHX:N1	2.34	0.59
1:1:1854:C:OP2	84:1:3572:OHX:N5	2.34	0.59
1:1:2273:G:O6	84:1:3419:OHX:N5	2.35	0.59
6:l:35:VAL:HG21	6:l:244:LEU:HD21	1.83	0.59
25:6:1381:U:OP1	84:6:2038:OHX:N4	2.35	0.59
1:AR:1365:G:OP2	84:AR:3532:OHX:N3	2.33	0.59
1:AR:1786:G:H2'	1:AR:1787:A:C8	2.36	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1895:A:O2'	1:AR:3053:G:H4'	2.02	0.59
2:AS:49:G:O6	7:CG:58:LYS:HE2	2.02	0.59
28:DA:47:ALA:O	28:DA:122:LYS:NZ	2.35	0.59
25:A:1459:C:H42	67:T:139:LYS:HE3	1.67	0.59
25:A:1592:A:H2'	25:A:1593:A:C8	2.37	0.59
60:M:75:VAL:HG12	60:M:119:VAL:HA	1.84	0.59
52:s3:105:MET:HG2	52:s3:122:VAL:HG21	1.82	0.59
58:s9:119:ALA:O	58:s9:124:HIS:ND1	2.23	0.59
1:1:610:G:C8	6:l:312:VAL:HG21	2.36	0.59
1:1:715:A:C8	30:AB:115:LYS:HG2	2.37	0.59
1:1:744:A:H1'	19:y:141:ARG:HD2	1.83	0.59
1:1:2947:G:OP2	1:1:2947:G:H4'	2.01	0.59
5:k:356:LEU:HD13	5:k:359:ILE:HD11	1.83	0.59
10:p:134:TYR:CG	10:p:190:VAL:HG21	2.37	0.59
16:v:104:GLU:HA	16:v:160:GLU:HG3	1.84	0.59
25:6:921:U:O4	84:6:2039:OHX:N3	2.35	0.59
25:6:1542:G:N2	25:6:1568:C:H1'	2.17	0.59
38:AJ:98:ARG:H	38:AJ:98:ARG:HD2	1.67	0.59
1:AR:293:C:O2'	38:DK:76:ARG:O	2.20	0.59
1:AR:1813:A:OP1	1:AR:1817:G:O2'	2.20	0.59
7:CG:64:ILE:HD12	7:CG:109:THR:HG21	1.84	0.59
16:CP:172:ARG:CZ	16:CP:174:ILE:HD11	2.31	0.59
23:CW:19:VAL:HG12	23:CW:105:LEU:HD22	1.84	0.59
25:A:170:U:H3	25:A:289:U:HO2'	1.49	0.59
25:A:936:G:N7	75:b:15:ARG:NH1	2.50	0.59
49:B:124:THR:HG22	49:B:174:TRP:HE1	1.68	0.59
52:E:127:MET:HE1	52:E:133:GLY:HA2	1.83	0.59
56:I:150:GLN:HB3	56:I:181:ILE:HD12	1.83	0.59
61:N:52:LEU:HD13	61:N:85:LYS:HZ2	1.66	0.59
72:Y:62:LYS:N	72:Y:116:ASP:O	2.30	0.59
77:d:36:THR:OG1	77:d:37:SER:N	2.35	0.59
81:h:123:ILE:HG22	81:h:133:VAL:HG22	1.84	0.59
50:s1:97:LEU:HB3	50:s1:232:HIS:CD2	2.37	0.59
1:1:1807:G:H5''	29:AA:135:ARG:HH22	1.67	0.59
1:1:2169:G:O6	84:1:3450:OHX:N1	2.35	0.59
4:j:227:ARG:HG2	4:j:239:ALA:HB2	1.84	0.59
19:y:64:VAL:HG13	19:y:93:ILE:HD11	1.85	0.59
25:6:737:A:H2'	25:6:738:G:C8	2.37	0.59
33:AE:83:GLU:OE2	84:AE:201:OHX:N4	2.35	0.59
17:CQ:18:ARG:O	17:CQ:22:VAL:HG13	2.02	0.59
29:DB:25:ILE:HG23	29:DB:41:ALA:HB1	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:Y:127:VAL:O	72:Y:130:VAL:HG22	2.02	0.59
56:s7:66:SER:C	56:s7:68:ALA:H	2.08	0.59
81:sR:42:LEU:HD21	81:sR:82:SER:HB3	1.83	0.59
1:1:430:U:OP1	84:1:3666:OHX:N6	2.36	0.59
1:1:519:A:N6	21:0:65:ASN:O	2.34	0.59
1:1:1699:A:OP1	84:1:3712:OHX:N1	2.35	0.59
1:1:2956:A:OP1	84:1:3415:OHX:N1	2.35	0.59
25:6:1533:C:H4'	25:6:1539:G:N1	2.17	0.59
1:AR:2744:U:OP1	84:AR:3596:OHX:N1	2.35	0.59
1:AR:3057:U:O2'	1:AR:3059:G:OP1	2.19	0.59
1:AR:3192:U:O4	84:AR:3643:OHX:N6	2.35	0.59
35:DH:12:LYS:HD3	35:DH:97:SER:HA	1.85	0.59
25:A:839:U:O4	84:A:1915:OHX:N4	2.36	0.59
50:C:77:GLU:OE1	63:P:114:ARG:NH2	2.34	0.59
56:I:12:ALA:HB3	56:I:13:PRO:HD3	1.84	0.59
56:I:98:ILE:HG12	56:I:121:VAL:HG21	1.84	0.59
64:Q:81:ARG:HH12	64:Q:120:SER:HB3	1.67	0.59
70:W:17:CYS:HB2	70:W:56:SER:HB3	1.83	0.59
64:c5:51:SER:OG	64:c5:52:LYS:N	2.35	0.59
72:d3:48:HIS:HB3	72:d3:103:LEU:HD21	1.83	0.59
81:sR:152:SER:HB3	81:sR:172:ALA:HB3	1.85	0.59
1:1:2407:C:H1'	1:1:2818:U:O2	2.02	0.59
8:n:135:VAL:HG12	8:n:139:LYS:HE3	1.84	0.59
16:v:84:PRO:HB2	44:AP:51:GLY:HA2	1.85	0.59
1:AR:944:C:OP1	34:DG:33:ARG:NH1	2.35	0.59
1:AR:1021:G:N2	1:AR:1032:C:O2	2.35	0.59
1:AR:2310:U:O4	84:AR:3485:OHX:N5	2.35	0.59
6:CF:299:ILE:HG23	19:CS:39:ARG:HB3	1.83	0.59
19:CS:96:PHE:CD1	19:CS:97:PRO:HD2	2.38	0.59
25:A:331:A:H4'	57:J:31:ARG:O	2.02	0.59
25:A:568:G:N7	72:Y:69:ARG:NH2	2.50	0.59
51:D:241:ASP:HA	51:D:244:SER:HB2	1.84	0.59
62:c3:85:PRO:HG2	62:c3:129:TYR:CE2	2.38	0.59
67:c8:8:GLN:O	67:c8:10:SER:N	2.36	0.59
68:c9:105:LEU:HD13	68:c9:122:ARG:HD3	1.84	0.59
75:d6:12:LYS:HE2	75:d6:16:GLY:N	2.18	0.59
1:1:621:A:O2'	84:1:3698:OHX:N1	2.35	0.59
1:1:1826:C:H2'	1:1:1827:C:C6	2.38	0.59
1:1:3082:C:H2'	1:1:3083:G:C8	2.38	0.59
12:r:14:ASN:O	12:r:128:ARG:NH2	2.35	0.59
14:t:48:PRO:HB2	37:AI:117:ALA:HB2	1.83	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:y:122:ILE:HG23	19:y:126:GLN:HB2	1.84	0.59
25:6:990:C:OP2	84:6:1976:OHX:N2	2.35	0.59
25:6:1601:G:OP1	68:c9:86:ARG:NH2	2.32	0.59
25:6:1696:G:O2'	25:6:1698:G:N7	2.34	0.59
29:AA:25:ILE:HA	29:AA:43:VAL:HG12	1.85	0.59
1:AR:421:G:OP1	84:AR:3522:OHX:N2	2.35	0.59
1:AR:1196:C:O2	84:AR:3594:OHX:N1	2.35	0.59
5:CE:187:SER:HB3	5:CE:190:GLU:HB2	1.85	0.59
40:DM:18:ALA:O	40:DM:20:VAL:N	2.35	0.59
54:G:124:LEU:HD22	54:G:199:ILE:HD13	1.84	0.59
74:a:50:ILE:O	74:a:54:VAL:HG23	2.02	0.59
75:b:43:ASN:HA	75:b:66:LYS:HB3	1.84	0.59
63:c4:50:ALA:C	63:c4:52:ARG:H	2.11	0.59
1:1:3230:G:H4'	15:u:132:LYS:HD3	1.84	0.59
5:k:123:TYR:CE1	5:k:124:LYS:HG3	2.36	0.59
1:AR:2108:C:H1'	1:AR:3344:A:H8	1.67	0.59
14:CN:9:ILE:HG13	30:DC:49:HIS:CE1	2.37	0.59
25:A:474:A:OP2	58:K:44:ARG:NH1	2.31	0.59
50:C:111:ARG:HB3	75:b:68:TYR:HD1	1.68	0.59
55:H:197:ASN:OD1	55:H:201:GLN:NE2	2.35	0.59
64:c5:70:ASN:O	64:c5:71:GLU:HG2	2.02	0.59
74:d5:38:HIS:HA	74:d5:70:LYS:HD2	1.84	0.59
11:q:41:ILE:HG23	11:q:43:VAL:HG13	1.84	0.59
25:6:367:A:OP1	84:6:2037:OHX:N3	2.35	0.59
25:6:950:C:H2'	25:6:951:A:C8	2.37	0.59
25:6:1521:G:O6	68:c9:68:ARG:NH1	2.35	0.59
1:AR:145:G:O6	84:AR:3521:OHX:N5	2.35	0.59
9:CI:151:ARG:NH1	9:CI:244:ASN:O	2.36	0.59
28:DA:56:VAL:HG11	28:DA:104:LEU:HD13	1.85	0.59
1:1:713:U:O2'	1:1:754:G:OP1	2.19	0.59
2:3:36:C:H4'	7:m:155:THR:HG23	1.84	0.59
4:j:96:LEU:O	45:AQ:87:ARG:HD3	2.03	0.59
25:6:393:C:OP2	57:s8:2:GLY:N	2.36	0.59
25:6:709:C:O2	25:6:730:G:N2	2.36	0.59
35:AG:67:MET:HE1	35:AG:90:PRO:HD3	1.85	0.59
1:AR:1080:A:OP1	7:CG:140:ARG:HD3	2.03	0.59
1:AR:1249:G:H2'	1:AR:1250:G:H8	1.66	0.59
1:AR:1549:U:O4	84:AR:3700:OHX:N2	2.35	0.59
1:AR:2525:G:OP2	4:CD:37:ARG:NH1	2.36	0.59
1:AR:3203:U:H2'	1:AR:3204:C:C6	2.38	0.59
22:CV:18:ASP:HB2	22:CV:21:LYS:HB2	1.84	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
29:DB:36:HIS:CD2	29:DB:74:VAL:HG11	2.37	0.59
25:A:980:G:H4'	25:A:1776:A:H4'	1.85	0.59
25:A:1738:U:H2'	25:A:1739:C:C6	2.38	0.59
25:A:1761:U:O2'	25:A:1762:A:OP2	2.20	0.59
1:1:975:C:H2'	1:1:976:U:C6	2.38	0.59
4:j:40:TYR:HB3	4:j:93:LYS:O	2.02	0.59
25:6:187:G:OP2	57:s8:142:LYS:NZ	2.34	0.59
1:AR:1851:G:OP2	84:AR:3542:OHX:N2	2.34	0.59
1:AR:3159:C:O2	1:AR:3291:G:N2	2.31	0.59
48:sM:51:ARG:CZ	48:sM:52:PRO:HD2	2.33	0.59
25:A:715:U:H3	25:A:723:G:H1	1.51	0.59
50:C:40:ASN:ND2	50:C:42:ASN:O	2.36	0.59
69:V:106:ILE:HG13	69:V:107:THR:H	1.68	0.59
65:c6:82:ARG:HH22	65:c6:114:ARG:HG3	1.68	0.59
69:d0:64:LYS:O	78:d9:33:LYS:NZ	2.30	0.59
74:d5:73:GLY:HA2	74:d5:76:ALA:HB3	1.84	0.59
7:m:106:ALA:HB2	7:m:166:ALA:HA	1.84	0.58
25:6:1564:U:H2'	25:6:1565:C:C6	2.38	0.58
1:AR:1257:C:O2'	47:p0:39:HIS:ND1	2.36	0.58
1:AR:3041:U:OP1	24:CX:12:ARG:NH1	2.36	0.58
5:CE:347:SER:HB3	5:CE:350:ALA:H	1.67	0.58
6:CF:330:TYR:O	6:CF:333:VAL:HG13	2.04	0.58
11:CK:41:ILE:HD11	11:CK:67:ALA:HB1	1.83	0.58
25:A:1175:U:H2'	25:A:1176:G:C8	2.38	0.58
25:A:1192:C:O2'	65:R:140:LYS:NZ	2.35	0.58
25:A:1352:G:H1	25:A:1373:C:H42	1.51	0.58
25:A:1564:U:H2'	25:A:1565:C:C6	2.38	0.58
49:B:4:PRO:HG2	49:B:7:PHE:HD2	1.67	0.58
54:G:135:ASP:O	54:G:139:ASN:ND2	2.31	0.58
79:f:13:LYS:NZ	79:f:17:GLN:OE1	2.36	0.58
49:s0:24:LEU:HD11	49:s0:41:ARG:HH22	1.67	0.58
53:s4:97:GLU:OE1	53:s4:113:ARG:NH2	2.36	0.58
1:1:415:G:OP2	84:4:211:OHX:N3	2.36	0.58
15:u:32:LEU:HD11	15:u:94:TRP:CG	2.38	0.58
25:6:972:G:O2'	1:AR:847:A:N1	2.35	0.58
25:6:1191:U:H5'	65:c6:143:ARG:HH11	1.67	0.58
25:6:1218:G:O4'	25:6:1444:A:N6	2.36	0.58
1:AR:406:G:H1'	3:AT:16:G:N2	2.18	0.58
1:AR:3043:C:P	24:CX:48:ARG:HH22	2.25	0.58
1:AR:3151:U:H4'	1:AR:3294:A:H1'	1.84	0.58
7:CG:60:ILE:HB	7:CG:80:SER:HB3	1.83	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:123:ILE:HG22	37:DJ:118:ILE:HG12	1.85	0.58
25:A:329:G:H5''	57:J:98:LYS:HB3	1.85	0.58
75:b:10:ARG:HB2	75:b:34:LYS:HG3	1.84	0.58
56:s7:55:LYS:HE2	56:s7:87:ASP:HA	1.84	0.58
69:d0:57:ARG:HG3	69:d0:89:ARG:CZ	2.33	0.58
70:d1:17:CYS:HB2	70:d1:56:SER:HB3	1.84	0.58
1:1:2840:C:OP1	84:1:3676:OHX:N6	2.36	0.58
5:k:92:TYR:HB2	5:k:157:VAL:HG22	1.84	0.58
12:r:77:THR:HG22	12:r:82:ARG:HA	1.84	0.58
25:6:1117:U:H2'	25:6:1118:G:C8	2.39	0.58
1:AR:2821:C:C6	86:AR:4239:7MB:C9	2.87	0.58
1:AR:3200:G:O6	84:AR:3643:OHX:N2	2.36	0.58
5:CE:221:THR:HB	5:CE:273:HIS:H	1.68	0.58
8:CH:31:ARG:NH1	35:DH:107:ILE:O	2.37	0.58
13:CM:148:VAL:HG12	13:CM:152:HIS:HB3	1.85	0.58
53:F:143:ASP:O	53:F:145:ARG:N	2.36	0.58
69:d0:58:LEU:HD13	69:d0:88:LYS:HD2	1.86	0.58
75:d6:15:ARG:HD2	75:d6:18:VAL:HG12	1.85	0.58
1:1:1171:G:O6	84:1:3496:OHX:N1	2.37	0.58
1:1:1409:G:N7	84:1:3605:OHX:N3	2.52	0.58
6:l:53:SER:HB3	6:l:56:ALA:HB2	1.83	0.58
12:r:21:ARG:NH1	12:r:22:TYR:OH	2.36	0.58
25:6:484:C:H42	25:6:503:G:H1	1.50	0.58
25:6:521:A:H2'	25:6:522:U:O4'	2.03	0.58
29:AA:4:PHE:CZ	32:AD:35:ARG:HA	2.37	0.58
37:AI:31:LEU:HD13	37:AI:47:VAL:HG11	1.84	0.58
1:AR:3164:C:N4	1:AR:3287:U:O4	2.37	0.58
9:CI:98:LYS:HB3	9:CI:99:PRO:HD3	1.85	0.58
23:CW:38:ILE:O	23:CW:50:LEU:HD11	2.04	0.58
25:A:138:A:N6	25:A:266:A:H61	2.01	0.58
25:A:514:G:O2'	25:A:515:A:H5'	2.03	0.58
25:A:1002:G:N1	25:A:1761:U:OP1	2.36	0.58
51:D:170:ILE:HB	51:D:197:TYR:HB2	1.86	0.58
68:U:37:VAL:HG11	68:U:100:ILE:HD11	1.84	0.58
62:c3:91:LEU:HB3	62:c3:122:ILE:HG12	1.83	0.58
82:c7:5:ARG:HB2	82:c7:10:LYS:HE2	1.85	0.58
1:1:911:C:N4	4:j:3:ARG:HD3	2.19	0.58
1:1:2629:U:O4	22:2:2:GLY:N	2.36	0.58
1:AR:911:C:H42	4:CD:3:ARG:HD3	1.68	0.58
1:AR:3045:G:O3'	5:CE:275:ARG:NH1	2.37	0.58
12:CL:156:ARG:NH1	12:CL:163:GLN:O	2.35	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
42:DO:111:ARG:HG3	42:DO:112:LYS:HD2	1.85	0.58
25:A:584:C:H1'	79:f:18:THR:HG21	1.85	0.58
51:D:102:VAL:HG11	51:D:129:ILE:HG12	1.86	0.58
72:Y:107:PHE:CD2	72:Y:114:LYS:HB2	2.39	0.58
1:l:201:A:OP2	84:l:3482:OHX:N2	2.36	0.58
25:6:405:C:OP1	84:6:1912:OHX:N5	2.35	0.58
29:AA:83:THR:HG23	29:AA:85:TYR:N	2.17	0.58
1:AR:2193:U:H5'	1:AR:2194:G:H5'	1.86	0.58
12:CL:150:GLU:HG3	12:CL:154:ARG:HD2	1.85	0.58
19:CS:170:ARG:HG3	19:CS:171:LYS:HG3	1.85	0.58
25:A:359:A:C2	72:Y:38:PHE:HB3	2.37	0.58
53:s4:166:SER:HB2	53:s4:168:LYS:HG3	1.84	0.58
55:s6:57:ASP:HA	55:s6:106:LEU:HA	1.85	0.58
55:s6:214:LYS:HA	55:s6:217:SER:HB2	1.86	0.58
1:l:1299:U:H2'	1:l:1300:G:O4'	2.04	0.58
1:l:1951:C:N4	1:l:2095:G:H1	2.00	0.58
6:l:182:LEU:HD13	6:l:223:PRO:HG2	1.84	0.58
9:o:143:THR:HG22	9:o:241:LYS:HG3	1.86	0.58
20:z:44:LEU:HD12	20:z:49:THR:HB	1.86	0.58
24:l2:89:ASP:OD1	24:l2:91:VAL:HG12	2.03	0.58
25:6:325:G:H4'	60:c1:83:THR:HG21	1.84	0.58
25:6:380:U:C2	58:s9:5:PRO:HG3	2.38	0.58
25:6:1482:C:OP2	25:6:1521:G:N2	2.35	0.58
39:AK:69:HIS:HB3	39:AK:72:ARG:HH21	1.68	0.58
1:AR:354:U:OP1	84:DL:102:OHX:N2	2.36	0.58
1:AR:2340:U:OP1	5:CE:236:LYS:HE2	2.03	0.58
9:CI:222:HIS:O	9:CI:225:GLN:N	2.34	0.58
13:CM:109:HIS:HD2	13:CM:114:ILE:HG21	1.69	0.58
16:CP:116:LEU:HD13	16:CP:133:ILE:HD11	1.85	0.58
19:CS:94:PHE:CZ	30:DC:119:PRO:HD3	2.38	0.58
45:DR:36:ARG:HG3	45:DR:48:LYS:HE2	1.85	0.58
25:A:487:G:H1	25:A:500:C:H42	1.50	0.58
25:A:1429:G:H1'	69:V:74:GLU:HG2	1.84	0.58
55:H:25:ARG:HG3	55:H:28:PHE:HD2	1.68	0.58
58:K:133:HIS:O	58:K:134:ILE:HG12	2.04	0.58
82:c7:104:ASN:C	82:c7:106:THR:H	2.08	0.58
11:q:172:ILE:H	11:q:172:ILE:HD13	1.68	0.58
25:6:213:A:OP2	84:6:2008:OHX:N1	2.37	0.58
25:6:1698:G:O2'	25:6:1699:G:O5'	2.21	0.58
29:AA:24:VAL:HG11	29:AA:87:LEU:HD23	1.86	0.58
34:AF:101:SER:O	34:AF:105:ARG:HG3	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:58:G:OP1	16:CP:157:LYS:NZ	2.34	0.58
1:AR:147:U:O4	10:CJ:157:VAL:HA	2.03	0.58
1:AR:2725:U:O4	84:AR:3459:OHX:N1	2.37	0.58
25:A:992:A:O2'	25:A:1785:U:O2	2.21	0.58
25:A:1230:A:H2'	25:A:1258:U:H5	1.69	0.58
80:g:107:LYS:HD2	80:g:117:LEU:HD11	1.86	0.58
78:d9:19:ARG:HD2	78:d9:32:ARG:HD2	1.84	0.58
1:l:1347:U:H4'	6:l:305:ALA:HB2	1.85	0.58
10:p:75:ILE:HG22	10:p:76:ALA:H	1.68	0.58
16:v:105:ARG:HD2	16:v:108:ARG:HH12	1.68	0.58
19:y:63:SER:OG	19:y:65:SER:OG	2.20	0.58
20:z:175:GLN:O	20:z:179:GLU:N	2.36	0.58
25:6:585:A:H2'	25:6:586:G:H8	1.69	0.58
1:AR:128:G:H2'	1:AR:129:U:O4'	2.03	0.58
1:AR:595:G:C8	1:AR:609:G:C6	2.92	0.58
1:AR:1541:G:OP2	84:AR:3595:OHX:N3	2.37	0.58
1:AR:2111:G:OP1	84:AR:3443:OHX:N5	2.37	0.58
16:CP:102:ALA:O	16:CP:106:VAL:HG13	2.03	0.58
27:CZ:132:ALA:HA	27:CZ:135:ILE:HG22	1.86	0.58
25:A:209:U:H2'	25:A:210:A:C8	2.39	0.58
25:A:1339:C:H4'	25:A:1340:U:OP2	2.03	0.58
67:T:126:ARG:HG2	67:T:133:VAL:HA	1.85	0.58
70:d1:62:ARG:HH22	71:d2:20:THR:HG22	1.69	0.58
72:d3:97:ASP:O	72:d3:100:ASP:HB2	2.04	0.58
81:sR:38:ARG:HG2	81:sR:67:ILE:HG23	1.85	0.58
1:l:517:G:P	9:o:60:ARG:HH22	2.27	0.58
1:l:692:A:OP1	16:v:201:ARG:NH2	2.37	0.58
1:l:1080:A:OP2	7:m:140:ARG:NH2	2.37	0.58
1:l:1163:A:H2'	1:l:1164:G:H8	1.68	0.58
1:l:2927:C:H2'	1:l:2928:C:C6	2.39	0.58
1:l:3329:U:H5''	5:k:308:MET:HE3	1.85	0.58
5:k:346:THR:O	5:k:348:ARG:N	2.36	0.58
7:m:38:THR:HG22	22:2:30:TYR:HB3	1.86	0.58
7:m:166:ALA:HB1	7:m:171:LEU:HD12	1.86	0.58
41:AM:44:TRP:CZ3	41:AM:45:ARG:HG3	2.38	0.58
1:AR:911:C:N4	4:CD:3:ARG:HD3	2.18	0.58
1:AR:999:G:C6	1:AR:1000:C:N4	2.72	0.58
1:AR:3121:U:H1'	1:AR:3122:A:H5''	1.86	0.58
6:CF:226:GLU:OE1	6:CF:237:GLN:NE2	2.36	0.58
6:CF:318:LEU:H	6:CF:324:LEU:HD22	1.69	0.58
14:CN:56:PRO:HG3	14:CN:74:GLY:O	2.04	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
26:CY:39:LEU:HD12	26:CY:44:LYS:HG3	1.86	0.58
40:DM:32:ASN:O	40:DM:32:ASN:ND2	2.35	0.58
56:I:50:ASP:HA	56:I:56:LYS:HA	1.86	0.58
68:U:25:GLN:HG2	68:U:27:LYS:H	1.69	0.58
81:sR:5:GLU:HA	81:sR:317:THR:HA	1.86	0.58
81:sR:65:SER:HB2	81:sR:86:ASP:HB3	1.84	0.58
81:sR:159:ASN:C	81:sR:161:LYS:H	2.11	0.58
1:1:2843:U:OP1	84:1:3676:OHX:N2	2.36	0.57
25:6:1164:G:H1	25:6:1581:C:N4	2.02	0.57
25:6:1498:G:H5''	68:c9:72:GLY:HA3	1.86	0.57
25:6:1558:U:H3	64:c5:122:THR:CG2	2.16	0.57
29:AA:53:VAL:HA	29:AA:57:HIS:HD2	1.68	0.57
1:AR:528:U:H2'	1:AR:529:A:C8	2.39	0.57
1:AR:789:A:H2'	1:AR:790:U:H6	1.69	0.57
9:CI:123:THR:HA	9:CI:126:LEU:HD12	1.86	0.57
49:B:38:PHE:HB2	49:B:49:ASN:HB2	1.86	0.57
60:M:18:HIS:O	84:M:201:OHX:N6	2.36	0.57
1:1:92:G:OP2	1:1:93:C:H5''	2.03	0.57
6:l:338:LYS:C	6:l:340:GLY:H	2.12	0.57
13:s:60:ARG:O	13:s:63:GLU:HB2	2.04	0.57
22:2:62:GLY:HA3	22:2:76:ILE:HD13	1.86	0.57
25:6:307:G:OP1	60:c1:90:TYR:OH	2.20	0.57
25:6:1579:U:OP2	84:6:2043:OHX:N3	2.37	0.57
1:AR:3066:U:O4	84:AR:3606:OHX:N4	2.37	0.57
3:AT:92:A:H2'	3:AT:93:U:O4'	2.05	0.57
7:CG:211:LEU:HB3	7:CG:219:PHE:HB2	1.86	0.57
14:CN:9:ILE:HD11	30:DC:45:MET:HE1	1.85	0.57
21:CU:1:MET:HB2	21:CU:118:PHE:CD2	2.39	0.57
69:d0:26:LEU:HB2	69:d0:89:ARG:HB2	1.85	0.57
1:1:1542:G:N7	84:1:3558:OHX:N6	2.53	0.57
1:1:2688:U:OP1	7:m:12:TYR:OH	2.16	0.57
7:m:151:GLN:OE1	7:m:152:ARG:N	2.38	0.57
16:v:38:ARG:HH22	16:v:60:VAL:HG22	1.69	0.57
25:6:169:A:H5''	55:s6:176:GLN:HG2	1.87	0.57
25:6:526:A:N6	25:6:527:A:C6	2.72	0.57
1:AR:3113:A:OP1	11:CK:73:SER:OG	2.21	0.57
1:AR:3192:U:O4	84:AR:3643:OHX:N2	2.37	0.57
11:CK:90:MET:HG2	11:CK:181:VAL:HA	1.86	0.57
14:CN:135:ALA:O	14:CN:136:GLU:HG2	2.04	0.57
33:DF:47:ASP:OD1	33:DF:47:ASP:N	2.37	0.57
25:A:883:C:H2'	25:A:884:A:H8	1.68	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:885:G:H21	63:P:123:SER:HB2	1.68	0.57
25:A:1046:G:OP1	50:C:157:GLN:NE2	2.38	0.57
60:M:128:CYS:SG	60:M:138:ASN:HB2	2.44	0.57
73:Z:57:VAL:HG13	73:Z:60:PHE:HE2	1.69	0.57
75:b:53:LEU:O	75:b:57:SER:OG	2.18	0.57
77:d:27:GLN:NE2	77:d:64:ARG:O	2.36	0.57
1:1:283:G:OP1	44:AP:45:ARG:NH2	2.38	0.57
1:1:1211:U:H2'	1:1:1212:A:C8	2.39	0.57
1:1:1675:G:H2'	1:1:1676:A:C8	2.39	0.57
25:6:1202:A:OP1	84:6:1986:OHX:N2	2.37	0.57
26:7:9:SER:HB2	26:7:51:TRP:HZ3	1.69	0.57
1:AR:1129:A:N3	1:AR:2826:U:O2'	2.33	0.57
1:AR:1386:A:OP2	34:DG:80:LYS:NZ	2.38	0.57
84:AT:214:OHX:N2	28:DA:114:ASP:OD1	2.37	0.57
6:CF:59:GLN:OE1	39:DL:55:ARG:NH2	2.37	0.57
20:CT:13:SER:OG	20:CT:38:ARG:NH2	2.37	0.57
29:DB:9:LYS:HB3	29:DB:25:ILE:HD12	1.86	0.57
30:DC:126:LYS:HG2	30:DC:146:GLU:HB2	1.87	0.57
25:A:924:A:O2'	25:A:987:G:OP1	2.22	0.57
52:E:164:VAL:HG13	52:E:168:ILE:HD11	1.86	0.57
69:V:58:LEU:HD12	69:V:88:LYS:HD2	1.86	0.57
1:1:196:G:N7	84:1:3442:OHX:N6	2.51	0.57
1:1:944:C:H4'	34:AF:33:ARG:NH1	2.19	0.57
1:1:1802:C:O2'	36:AH:59:PRO:O	2.18	0.57
6:l:192:GLY:HA2	6:l:195:ARG:HD2	1.86	0.57
17:w:14:HIS:CE1	17:w:119:VAL:HG12	2.39	0.57
25:6:694:U:H3'	25:6:695:U:O2	2.05	0.57
25:6:1797:A:OP2	75:d6:10:ARG:NE	2.36	0.57
1:AR:381:U:O4	84:AR:3701:OHX:N2	2.37	0.57
1:AR:2827:U:O4	84:AR:3403:OHX:N3	2.38	0.57
20:CT:47:ASN:OD1	20:CT:49:THR:OG1	2.22	0.57
38:DK:79:SER:HB2	38:DK:82:ARG:H	1.69	0.57
57:J:84:HIS:CE1	57:J:86:SER:HB2	2.39	0.57
57:s8:76:THR:HG22	57:s8:108:PRO:HG2	1.85	0.57
58:s9:131:GLN:O	58:s9:132:ARG:HG2	2.03	0.57
62:c3:40:TYR:HB3	62:c3:45:LEU:HD12	1.86	0.57
67:c8:52:VAL:HG21	67:c8:69:ILE:HD11	1.87	0.57
69:d0:35:GLU:OE1	69:d0:89:ARG:NH1	2.38	0.57
1:1:230:U:H2'	1:1:231:G:O4'	2.05	0.57
1:1:2242:A:OP2	84:1:3494:OHX:N2	2.37	0.57
10:p:101:THR:HG22	10:p:104:GLU:H	1.70	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:z:182:ASP:OD1	20:z:182:ASP:N	2.38	0.57
38:AJ:9:ILE:HA	38:AJ:13:LYS:HD3	1.86	0.57
1:AR:655:C:H2'	1:AR:656:A:H8	1.70	0.57
1:AR:3295:A:OP2	5:CE:126:LYS:N	2.35	0.57
1:AR:3393:U:H2'	1:AR:3394:U:H6	1.69	0.57
3:AT:10:A:H2'	3:AT:11:C:C6	2.40	0.57
31:DD:28:LYS:HD3	31:DD:29:TYR:H	1.68	0.57
36:DI:42:PRO:HD3	36:DI:56:THR:HG22	1.86	0.57
25:A:1041:G:OP1	84:A:2027:OHX:N5	2.38	0.57
25:A:1699:G:H2'	25:A:1700:C:H5''	1.86	0.57
53:F:139:VAL:HG13	53:F:150:PRO:HG3	1.86	0.57
63:P:81:VAL:H	63:P:115:ILE:HG22	1.70	0.57
58:s9:134:ILE:H	58:s9:134:ILE:HD12	1.69	0.57
1:1:73:C:C2	14:t:59:ARG:HD3	2.39	0.57
1:1:145:G:OP2	10:p:193:LYS:NZ	2.37	0.57
1:1:1390:A:N6	1:1:1418:A:O2'	2.36	0.57
1:1:3039:C:OP1	24:l2:88:ARG:NH2	2.38	0.57
3:4:83:C:H42	28:9:52:ARG:HH22	1.51	0.57
18:x:108:ASP:HB3	18:x:111:LYS:HD2	1.87	0.57
25:6:542:A:H1'	25:6:543:C:H5'	1.86	0.57
25:6:621:A:O2'	25:6:1106:U:O2'	2.13	0.57
25:6:922:G:H2'	25:6:923:A:H8	1.70	0.57
25:6:1511:U:H2'	25:6:1512:G:C8	2.39	0.57
46:i:79:SER:HA	46:i:82:THR:HG23	1.87	0.57
1:AR:655:C:H2'	1:AR:656:A:C8	2.39	0.57
1:AR:944:C:H4'	34:DG:33:ARG:HH12	1.69	0.57
1:AR:1246:G:O2'	1:AR:1264:G:OP2	2.21	0.57
1:AR:2356:A:OP1	18:CR:138:LYS:NZ	2.36	0.57
1:AR:3325:G:H5''	33:DF:103:GLY:HA2	1.87	0.57
6:CF:193:LYS:HA	6:CF:198:ARG:HA	1.87	0.57
25:A:45:U:O2'	25:A:46:A:H2'	2.05	0.57
25:A:768:C:C2	58:K:143:ILE:HG12	2.39	0.57
72:Y:107:PHE:CE1	72:Y:123:LYS:HB3	2.39	0.57
49:s0:30:GLN:HB3	49:s0:149:LEU:O	2.05	0.57
49:s0:146:LEU:HB3	49:s0:162:CYS:SG	2.45	0.57
61:c2:66:VAL:HG11	61:c2:71:ILE:HD12	1.86	0.57
1:1:1498:A:H2'	1:1:1499:C:C6	2.40	0.57
1:1:2112:U:H4'	1:1:2113:A:H5'	1.85	0.57
1:1:2514:U:H5'	10:p:68:ARG:HG3	1.86	0.57
4:j:117:GLU:OE2	4:j:121:GLY:N	2.38	0.57
11:q:47:LYS:HZ2	15:u:6:ILE:H	1.51	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1:U:C4	58:s9:54:ARG:HG3	2.40	0.57
25:6:58:U:O4	84:6:1945:OHX:N2	2.38	0.57
25:6:833:U:O4	84:6:1956:OHX:N5	2.38	0.57
14:CN:106:GLN:HB3	38:DK:18:THR:OG1	2.04	0.57
22:CV:82:ASN:HA	31:DD:21:ILE:HD13	1.87	0.57
28:DA:70:ILE:HA	28:DA:82:VAL:HA	1.85	0.57
25:A:87:C:O2'	25:A:169:A:N1	2.35	0.57
25:A:1203:A:OP2	84:A:1988:OHX:N5	2.38	0.57
65:R:50:GLU:OE1	65:R:114:ARG:NH1	2.38	0.57
67:T:89:GLN:HA	67:T:97:ASP:HA	1.87	0.57
50:s1:126:THR:HA	50:s1:136:ARG:HA	1.86	0.57
1:1:2745:G:O6	84:1:3650:OHX:N6	2.38	0.57
1:1:2948:C:O2'	5:k:242:THR:HG22	2.05	0.57
6:l:91:GLY:HA3	6:l:94:CYS:SG	2.45	0.57
6:l:295:ILE:O	6:l:299:ILE:HG12	2.05	0.57
11:q:77:ASN:HB3	11:q:151:VAL:HG21	1.87	0.57
17:w:142:SER:HB3	17:w:147:TRP:HB2	1.87	0.57
25:6:626:U:H2'	25:6:627:C:H6	1.69	0.57
1:AR:990:U:H1'	22:CV:101:CYS:HB3	1.86	0.57
1:AR:1507:G:N7	18:CR:129:THR:HG23	2.19	0.57
5:CE:188:ILE:O	5:CE:192:VAL:HG12	2.04	0.57
14:CN:89:TYR:CZ	14:CN:93:ILE:HD11	2.40	0.57
27:CZ:139:ILE:HD11	27:CZ:141:TYR:HE2	1.68	0.57
25:A:367:A:OP1	84:A:2038:OHX:N3	2.37	0.57
25:A:876:G:H1'	25:A:944:A:O4'	2.05	0.57
49:B:83:GLN:HG2	49:B:99:ALA:HB1	1.87	0.57
50:C:61:LEU:HD22	50:C:61:LEU:H	1.69	0.57
50:C:81:PHE:HD1	50:C:82:ARG:HG3	1.69	0.57
62:O:93:LYS:HG3	62:O:150:VAL:HG11	1.86	0.57
50:s1:145:LYS:HG2	50:s1:154:SER:HB3	1.85	0.57
64:c5:125:PRO:HB3	67:c8:129:TRP:CH2	2.40	0.57
69:d0:17:GLN:HG3	69:d0:18:GLN:HG3	1.86	0.57
69:d0:26:LEU:O	69:d0:89:ARG:N	2.29	0.57
1:1:1895:A:HO2'	1:1:3053:G:H4'	1.69	0.57
1:1:3067:C:H5''	20:z:58:HIS:CD2	2.39	0.57
14:t:57:VAL:HG23	14:t:115:ARG:HD2	1.87	0.57
25:6:800:U:H2'	25:6:801:G:C8	2.40	0.57
1:AR:289:A:O2'	16:CP:93:LYS:O	2.21	0.57
1:AR:1058:U:O4	84:AR:3683:OHX:N1	2.38	0.57
1:AR:1195:A:H1'	1:AR:1319:G:H4'	1.86	0.57
1:AR:2264:U:OP2	84:AR:3456:OHX:N4	2.38	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2425:G:H2'	1:AR:2426:U:O4'	2.05	0.57
3:AT:16:G:O6	84:AT:203:OHX:N6	2.37	0.57
7:CG:163:LEU:HD12	7:CG:180:PHE:HZ	1.70	0.57
19:CS:80:THR:HG22	19:CS:100:THR:HB	1.87	0.57
22:CV:39:ILE:HD12	22:CV:102:ARG:HD3	1.87	0.57
28:DA:32:SER:HA	28:DA:49:PRO:HA	1.87	0.57
53:F:240:LYS:HD3	53:F:240:LYS:H	1.70	0.57
60:M:53:TYR:CD1	60:M:113:PRO:HG2	2.40	0.57
61:N:50:LYS:NZ	80:g:106:TYR:OH	2.37	0.57
61:c2:42:ALA:O	61:c2:122:VAL:N	2.35	0.57
69:d0:80:GLU:OE1	78:d9:44:ARG:NH1	2.32	0.57
6:l:177:ASP:OD1	6:l:180:LYS:HE3	2.05	0.56
12:r:142:ASP:OD2	12:r:178:ARG:NH2	2.38	0.56
25:6:7:G:O6	51:s2:205:ARG:NH2	2.38	0.56
25:6:354:C:H5''	57:s8:16:ALA:HB2	1.87	0.56
25:6:1067:C:H5''	50:s1:150:VAL:HG23	1.87	0.56
25:6:1491:U:H4'	25:6:1492:A:H5''	1.87	0.56
1:AR:807:A:H61	1:AR:934:G:H22	1.53	0.56
3:AT:135:G:P	27:CZ:56:ARG:HH22	2.28	0.56
25:A:23:G:O2'	25:A:368:U:OP1	2.23	0.56
58:K:69:ARG:O	58:K:73:GLY:N	2.34	0.56
60:M:67:ARG:NH2	60:M:128:CYS:O	2.38	0.56
49:s0:88:LYS:O	49:s0:92:HIS:ND1	2.33	0.56
49:s0:155:PHE:HE1	70:d1:30:ALA:HB1	1.70	0.56
52:s3:168:ILE:HG22	52:s3:189:MET:HB2	1.87	0.56
60:c1:14:GLN:HB3	60:c1:54:ILE:HG13	1.87	0.56
76:d7:56:CYS:HB3	76:d7:59:CYS:SG	2.45	0.56
1:1:715:A:OP2	30:AB:114:GLY:N	2.34	0.56
1:1:2169:G:O6	84:1:3450:OHX:N4	2.38	0.56
1:1:2836:C:H5	1:1:2852:C:N4	1.95	0.56
1:1:3224:G:O6	84:1:3430:OHX:N4	2.38	0.56
1:1:3365:U:H2'	1:1:3366:G:H8	1.69	0.56
3:4:151:C:C4	27:8:24:LEU:HD11	2.39	0.56
4:j:30:ARG:NH2	4:j:33:ASP:OD1	2.38	0.56
5:k:41:VAL:CA	5:k:185:GLY:HA3	2.29	0.56
11:q:20:ILE:HG13	15:u:7:VAL:HG22	1.85	0.56
16:v:42:PRO:HG3	16:v:61:ILE:HG13	1.86	0.56
25:6:1482:C:O2'	65:c6:72:GLY:O	2.23	0.56
27:8:63:ILE:HA	27:8:86:VAL:HG22	1.86	0.56
1:AR:229:G:H5''	28:DA:4:GLN:HB2	1.85	0.56
1:AR:1456:A:N1	1:AR:1476:G:O2'	2.37	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1688:U:H2'	1:AR:1689:U:C6	2.41	0.56
1:AR:2683:U:H2'	1:AR:2684:C:C6	2.40	0.56
45:DR:33:GLN:HG3	45:DR:34:HIS:CD2	2.40	0.56
25:A:1535:U:H5	54:G:185:ARG:C	2.13	0.56
25:A:1796:C:OP1	75:b:87:ARG:NH1	2.37	0.56
57:J:76:THR:HG22	57:J:108:PRO:HG2	1.86	0.56
62:O:132:VAL:HG23	62:O:134:VAL:HG13	1.86	0.56
63:P:87:GLY:HA3	63:P:120:PRO:HG2	1.87	0.56
70:W:71:ARG:HG3	70:W:83:TRP:CH2	2.40	0.56
49:s0:24:LEU:O	49:s0:163:ASN:ND2	2.38	0.56
61:c2:79:ALA:HA	61:c2:85:LYS:HZ2	1.70	0.56
67:c8:63:GLN:HA	67:c8:66:LEU:HD12	1.87	0.56
68:c9:66:TYR:HE1	68:c9:129:GLN:HG3	1.69	0.56
1:1:1546:A:N7	16:v:71:ARG:NH1	2.53	0.56
1:1:1833:G:OP1	41:AM:10:LYS:HD3	2.05	0.56
1:1:1874:A:H5''	20:z:18:GLY:HA3	1.86	0.56
1:1:1942:U:O2'	1:1:3345:G:O2'	2.16	0.56
1:1:3258:U:OP2	84:1:3430:OHX:N6	2.38	0.56
8:n:175:LYS:O	15:u:117:ARG:NH2	2.37	0.56
25:6:21:U:H2'	25:6:22:A:H8	1.68	0.56
25:6:417:A:H4'	25:6:418:G:O5'	2.05	0.56
25:6:831:U:O2'	25:6:832:U:H5'	2.05	0.56
25:6:1335:U:H2'	25:6:1336:A:H8	1.70	0.56
25:6:1767:G:OP1	25:6:1770:U:H4'	2.05	0.56
30:AB:47:LYS:C	30:AB:49:HIS:H	2.10	0.56
37:AI:78:LYS:HA	37:AI:81:ARG:HD2	1.88	0.56
38:AJ:33:ALA:HB1	38:AJ:38:LYS:NZ	2.21	0.56
45:AQ:75:ALA:O	45:AQ:79:VAL:HG23	2.04	0.56
1:AR:22:G:H1'	3:AT:104:A:N3	2.19	0.56
1:AR:80:G:OP2	84:AR:3461:OHX:N1	2.39	0.56
1:AR:296:A:OP1	38:DK:86:LYS:NZ	2.37	0.56
1:AR:816:A:H5''	1:AR:920:A:H62	1.70	0.56
1:AR:1256:G:O6	1:AR:1261:G:N2	2.38	0.56
1:AR:1447:G:H3'	18:CR:67:ILE:HD11	1.86	0.56
1:AR:1779:C:N3	84:AR:3507:OHX:N4	2.53	0.56
1:AR:1785:U:H2'	1:AR:1786:G:C8	2.40	0.56
1:AR:2355:G:H4'	18:CR:139:TYR:CE1	2.40	0.56
1:AR:3259:U:H6	1:AR:3259:U:H5'	1.71	0.56
12:CL:76:MET:HE2	12:CL:148:VAL:HA	1.86	0.56
15:CO:17:VAL:HG21	15:CO:74:ARG:HB2	1.85	0.56
18:CR:179:GLN:O	18:CR:184:ALA:N	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:58:ASN:C	19:CS:60:PRO:HD3	2.30	0.56
30:DC:77:LYS:C	30:DC:79:TRP:H	2.13	0.56
45:DR:27:LYS:HE2	45:DR:31:ILE:HD11	1.86	0.56
25:A:186:C:OP1	57:J:146:ARG:NH2	2.37	0.56
25:A:802:G:O6	84:A:1932:OHX:N3	2.38	0.56
25:A:894:U:H2'	25:A:895:G:C8	2.40	0.56
25:A:1239:U:OP1	84:A:2022:OHX:N5	2.38	0.56
25:A:1529:C:OP1	54:G:112:ARG:NH1	2.37	0.56
25:A:1573:A:H4'	25:A:1574:G:H5'	1.87	0.56
56:I:63:PRO:HB2	56:I:65:PRO:HD2	1.88	0.56
67:T:123:ARG:HG3	67:T:133:VAL:HG21	1.86	0.56
59:c0:14:TYR:CZ	59:c0:18:GLU:HG3	2.40	0.56
62:c3:22:ALA:HB1	62:c3:23:PRO:HA	1.87	0.56
78:d9:33:LYS:HE2	78:d9:34:TYR:CZ	2.40	0.56
79:e0:54:ARG:O	79:e0:54:ARG:HG2	2.04	0.56
1:1:70:A:N1	1:1:313:A:O2'	2.37	0.56
1:1:269:G:N2	1:1:295:A:OP2	2.38	0.56
1:1:789:A:H2'	1:1:790:U:C6	2.40	0.56
1:1:1064:A:H4'	1:1:1065:A:O5'	2.05	0.56
1:1:3384:U:H2'	1:1:3385:U:H6	1.71	0.56
8:n:31:ARG:HH12	35:AG:107:ILE:C	2.14	0.56
10:p:24:ASN:N	10:p:27:THR:HG22	2.21	0.56
25:6:454:U:H5''	25:6:455:C:C5	2.40	0.56
25:6:652:G:N2	25:6:682:C:O2	2.39	0.56
25:6:1228:G:OP1	61:c2:119:SER:OG	2.19	0.56
25:6:1641:C:H2'	25:6:1642:G:C8	2.41	0.56
40:AL:8:ILE:H	40:AL:8:ILE:HD12	1.70	0.56
1:AR:1631:C:H5''	1:AR:1632:A:H5''	1.86	0.56
1:AR:1887:A:OP1	84:AR:3614:OHX:N3	2.39	0.56
11:CK:163:GLN:O	11:CK:166:ARG:HD3	2.05	0.56
25:A:417:A:H4'	25:A:418:G:O5'	2.05	0.56
53:F:199:GLU:HB2	53:F:207:LEU:HB2	1.86	0.56
54:G:156:ARG:HB2	54:G:156:ARG:HH11	1.70	0.56
75:b:82:ARG:O	75:b:84:VAL:HG12	2.05	0.56
56:s7:103:SER:N	56:s7:106:SER:O	2.39	0.56
73:d4:55:VAL:HG12	73:d4:75:VAL:HG22	1.88	0.56
1:1:600:G:N7	84:1:3634:OHX:N1	2.53	0.56
1:1:1174:G:H21	17:w:87:MET:HE2	1.71	0.56
1:1:2120:A:OP2	84:1:3547:OHX:N2	2.39	0.56
1:1:2165:G:OP1	84:1:3538:OHX:N6	2.38	0.56
1:1:2748:A:H1'	7:m:36:LEU:HD23	1.88	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:3122:A:N1	11:q:70:THR:HG21	2.20	0.56
1:1:3375:A:H5''	1:1:3378:C:C5	2.39	0.56
6:l:145:ILE:O	84:l:401:OHX:N5	2.38	0.56
18:x:41:LEU:O	18:x:45:GLN:HG3	2.06	0.56
25:6:961:U:H2'	25:6:962:C:C6	2.41	0.56
25:6:1512:G:H2'	25:6:1513:G:H8	1.70	0.56
1:AR:126:U:H2'	1:AR:127:G:O4'	2.05	0.56
1:AR:824:C:H5''	4:CD:21:ARG:HD3	1.88	0.56
7:CG:132:THR:HG21	7:CG:170:GLY:HA2	1.86	0.56
8:CH:42:LEU:HD22	8:CH:79:VAL:HG21	1.87	0.56
10:CJ:171:LYS:NZ	10:CJ:223:ALA:O	2.28	0.56
25:A:54:C:O2'	25:A:459:G:N7	2.34	0.56
25:A:760:A:OP2	84:A:1939:OHX:N4	2.39	0.56
65:R:37:THR:O	65:R:45:ARG:NH1	2.38	0.56
75:b:62:TYR:CG	75:b:63:ALA:N	2.73	0.56
53:s4:117:GLU:C	53:s4:119:ALA:H	2.14	0.56
61:c2:126:TRP:CD1	61:c2:127:GLY:H	2.24	0.56
75:d6:11:ASN:O	75:d6:33:ASP:HB2	2.06	0.56
1:1:194:U:H3	1:1:201:A:H61	1.53	0.56
1:1:847:A:N1	25:A:972:G:O2'	2.38	0.56
1:1:1301:A:H4'	1:1:1302:A:O5'	2.06	0.56
4:j:108:PRO:HG2	45:AQ:86:LEU:HD13	1.86	0.56
5:k:92:TYR:O	5:k:155:ALA:HA	2.06	0.56
11:q:90:MET:HG2	11:q:181:VAL:HG22	1.88	0.56
15:u:100:ALA:HA	15:u:103:ILE:HD12	1.88	0.56
25:6:140:A:N6	25:6:281:G:OP1	2.39	0.56
25:6:1734:U:H2'	25:6:1735:U:C6	2.41	0.56
84:6:2017:OHX:N2	72:d3:64:PRO:O	2.38	0.56
39:AK:31:LYS:HB3	39:AK:33:THR:HG22	1.86	0.56
1:AR:342:A:O2'	84:AR:3425:OHX:N6	2.39	0.56
1:AR:2123:G:O6	84:AR:3601:OHX:N5	2.39	0.56
4:CD:62:VAL:HA	4:CD:73:GLU:HA	1.87	0.56
7:CG:85:ARG:HH12	7:CG:254:LYS:H	1.52	0.56
16:CP:65:ARG:HG2	16:CP:129:TYR:CE2	2.41	0.56
17:CQ:43:ILE:HD11	17:CQ:138:LEU:HD13	1.87	0.56
44:DQ:47:GLN:OE1	44:DQ:54:THR:OG1	2.22	0.56
25:A:1525:A:H5'	68:U:93:HIS:HB2	1.88	0.56
52:E:106:LYS:HG3	52:E:175:VAL:HB	1.88	0.56
81:h:149:ASP:HB2	81:h:175:ASP:HB3	1.87	0.56
82:c7:17:ILE:HG12	82:c7:58:MET:HE2	1.87	0.56
82:c7:104:ASN:O	82:c7:106:THR:HG22	2.05	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
83:e1:102:VAL:HG22	83:e1:103:LEU:H	1.71	0.56
1:1:299:G:N7	84:1:3618:OHX:N2	2.54	0.56
1:1:655:C:H2'	1:1:656:A:C8	2.41	0.56
1:1:1245:A:H3'	1:1:1246:G:H5''	1.86	0.56
1:1:1257:C:H42	1:1:1261:G:H22	1.51	0.56
1:1:2525:G:OP2	4:j:37:ARG:NH1	2.38	0.56
1:1:2960:C:H2'	1:1:2961:G:C8	2.40	0.56
15:u:113:THR:HG22	15:u:115:PHE:H	1.70	0.56
22:2:83:ARG:NH1	22:2:85:LEU:HD21	2.21	0.56
25:6:315:A:O2'	84:6:2018:OHX:N1	2.38	0.56
25:6:626:U:H2'	25:6:627:C:C6	2.41	0.56
25:6:922:G:H2'	25:6:923:A:C8	2.41	0.56
25:6:1120:U:H2'	25:6:1121:C:C6	2.40	0.56
44:AP:48:SER:O	84:AP:502:OHX:N6	2.39	0.56
1:AR:431:U:O4	84:AR:3484:OHX:N5	2.38	0.56
1:AR:943:U:H3'	30:DC:13:GLY:HA2	1.87	0.56
1:AR:2173:U:H5''	4:CD:18:SER:HB2	1.86	0.56
1:AR:2922:G:N1	1:AR:2923:U:O2	2.38	0.56
21:CU:14:LEU:HG	21:CU:56:GLY:HA2	1.88	0.56
22:CV:17:ARG:HG3	22:CV:22:HIS:HA	1.88	0.56
25:A:590:C:H5''	79:f:43:ARG:HH12	1.70	0.56
25:A:1557:U:OP2	25:A:1559:A:O2'	2.17	0.56
51:D:107:SER:O	51:D:192:GLY:HA3	2.05	0.56
75:b:84:VAL:HG13	75:b:85:ARG:N	2.21	0.56
77:d8:8:THR:HB	77:d8:56:LEU:HB2	1.88	0.56
1:1:873:C:H5''	1:1:874:U:O5'	2.05	0.56
1:1:1485:G:N7	84:1:3514:OHX:N1	2.54	0.56
1:1:2722:U:H4'	22:2:88:ARG:HB2	1.86	0.56
1:1:2960:C:OP1	84:1:3540:OHX:N4	2.38	0.56
18:x:136:ILE:O	18:x:137:ASN:ND2	2.39	0.56
25:6:1015:U:OP1	84:6:1910:OHX:N5	2.39	0.56
33:AE:11:GLU:OE2	33:AE:74:ARG:NH2	2.39	0.56
1:AR:784:A:N7	19:CS:69:ARG:HG3	2.21	0.56
1:AR:2572:C:O2'	1:AR:2573:G:O4'	2.24	0.56
1:AR:2875:U:C6	86:AR:4239:7MB:BR	3.14	0.56
6:CF:126:ILE:HD11	6:CF:233:LEU:HD13	1.88	0.56
7:CG:276:LYS:HG2	7:CG:277:LEU:H	1.71	0.56
9:CI:156:ILE:O	9:CI:159:GLN:HB2	2.05	0.56
9:CI:178:ILE:HA	9:CI:183:ASP:HB3	1.88	0.56
14:CN:76:THR:HA	14:CN:98:ASP:O	2.06	0.56
24:CX:89:ASP:OD1	24:CX:91:VAL:HG12	2.06	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
47:p0:93:LEU:HD13	47:p0:94:THR:HG23	1.87	0.56
25:A:140:A:OP2	55:H:187:LYS:NZ	2.34	0.56
50:C:70:LEU:HD21	50:C:79:HIS:CD2	2.41	0.56
56:I:156:SER:HB3	56:I:157:LYS:HG3	1.88	0.56
78:e:25:SER:OG	84:e:101:OHX:N4	2.39	0.56
49:s0:175:TYR:HE1	49:s0:197:ILE:HG22	1.70	0.56
53:s4:125:LYS:H	53:s4:142:HIS:CD2	2.10	0.56
54:s5:37:GLN:OE1	65:c6:53:LEU:HD22	2.06	0.56
58:s9:108:ARG:HB2	58:s9:111:THR:HG23	1.87	0.56
1:1:1019:G:O6	84:1:3597:OHX:N1	2.39	0.56
1:1:2677:G:OP2	84:1:3586:OHX:N4	2.39	0.56
1:1:3045:G:O3'	5:k:275:ARG:NH1	2.38	0.56
2:3:49:G:C5	7:m:58:LYS:HG3	2.40	0.56
6:l:38:VAL:O	6:l:42:VAL:HG23	2.05	0.56
25:6:212:U:H2'	25:6:213:A:C8	2.41	0.56
25:6:292:U:H2'	25:6:293:U:C6	2.41	0.56
25:6:1117:U:H2'	25:6:1118:G:H8	1.71	0.56
25:6:1561:U:H4'	25:6:1599:C:H4'	1.87	0.56
30:AB:28:HIS:CD2	30:AB:32:ARG:HG2	2.41	0.56
1:AR:501:A:H2'	1:AR:502:U:C6	2.41	0.56
1:AR:891:G:OP1	84:AR:3417:OHX:N2	2.39	0.56
6:CF:271:LYS:HB2	6:CF:274:TYR:HB3	1.87	0.56
7:CG:58:LYS:HA	7:CG:93:THR:HB	1.87	0.56
17:CQ:54:TYR:HE1	17:CQ:58:LEU:HD13	1.71	0.56
58:s9:159:ALA:HB3	58:s9:162:SER:HB2	1.88	0.56
67:c8:127:HIS:CD2	67:c8:133:VAL:HG11	2.41	0.56
1:1:256:G:H4'	37:AI:111:PHE:HZ	1.70	0.56
1:1:3035:A:OP2	84:1:3612:OHX:N4	2.39	0.56
84:1:3409:OHX:N4	3:4:16:G:O6	2.39	0.56
3:4:154:C:O2'	10:p:185:ARG:HG3	2.06	0.56
9:o:24:GLU:O	9:o:26:VAL:N	2.39	0.56
21:0:81:TYR:CE1	21:0:90:MET:HE3	2.41	0.56
25:6:340:U:H2'	25:6:341:A:C8	2.41	0.56
25:6:647:G:N2	25:6:687:G:H22	2.04	0.56
25:6:1294:G:O6	84:6:1924:OHX:N5	2.38	0.56
1:AR:1221:A:H3'	1:AR:1222:G:H5'	1.86	0.56
1:AR:1443:G:N7	84:AR:3512:OHX:N2	2.54	0.56
1:AR:1867:A:H2'	1:AR:1868:G:C8	2.41	0.56
1:AR:1888:U:H2'	1:AR:1889:G:O4'	2.05	0.56
1:AR:2419:A:H2'	1:AR:2420:C:C6	2.41	0.56
1:AR:2876:C:OP2	84:AR:3739:OHX:N6	2.39	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:78:PHE:C	10:CJ:80:TYR:H	2.12	0.56
12:CL:33:ILE:HG13	12:CL:33:ILE:O	2.06	0.56
27:CZ:105:VAL:HG13	27:CZ:130:TYR:CD1	2.40	0.56
25:A:856:A:H62	56:I:97:ARG:H	1.54	0.56
53:F:68:ARG:HB3	53:F:76:VAL:HG11	1.87	0.56
49:s0:120:LEU:HD11	49:s0:144:ILE:HG13	1.87	0.56
1:1:1488:G:O2'	36:AH:10:ARG:O	2.25	0.55
1:1:2593:A:H4'	1:1:2594:C:O5'	2.06	0.55
20:z:11:ALA:O	20:z:15:VAL:HG23	2.06	0.55
20:z:101:VAL:O	20:z:104:ARG:NH1	2.39	0.55
25:6:365:G:O6	84:6:1991:OHX:N4	2.39	0.55
25:6:1727:G:H2'	25:6:1728:A:C8	2.41	0.55
1:AR:1160:C:OP1	19:CS:2:GLY:N	2.38	0.55
1:AR:3049:A:C2	5:CE:75:ALA:HB2	2.41	0.55
6:CF:316:ASN:HD21	6:CF:318:LEU:HD12	1.71	0.55
17:CQ:127:LEU:HD11	21:CU:168:PRO:HG3	1.87	0.55
25:A:1003:A:H1'	25:A:1005:A:N7	2.21	0.55
71:X:47:ILE:HG22	71:X:65:LEU:HB3	1.88	0.55
49:s0:38:PHE:HB2	49:s0:49:ASN:HB2	1.88	0.55
51:s2:60:SER:OG	70:d1:15:ARG:NH2	2.38	0.55
58:s9:113:VAL:HG12	58:s9:119:ALA:HB2	1.87	0.55
60:c1:75:VAL:HG12	60:c1:119:VAL:HA	1.87	0.55
65:c6:95:LYS:HE3	65:c6:96:TYR:CZ	2.41	0.55
70:d1:69:LEU:O	70:d1:73:ALA:N	2.38	0.55
1:1:911:C:H5''	4:j:15:ILE:HD13	1.88	0.55
1:1:1334:U:H5''	9:o:206:LYS:HB3	1.87	0.55
1:1:1603:A:OP1	20:z:38:ARG:NH1	2.38	0.55
1:1:2261:G:O6	84:1:3471:OHX:N4	2.39	0.55
84:1:3502:OHX:N1	30:AB:24:LYS:O	2.38	0.55
2:3:77:G:N2	2:3:102:A:OP2	2.31	0.55
2:3:77:G:OP2	84:3:201:OHX:N5	2.39	0.55
16:v:65:ARG:HB3	16:v:127:TYR:HD2	1.71	0.55
25:6:1129:U:OP1	84:6:1968:OHX:N5	2.39	0.55
25:6:1645:G:H1	25:6:1756:A:N6	2.03	0.55
1:AR:94:G:H2'	1:AR:95:A:C8	2.41	0.55
1:AR:629:U:H2'	1:AR:630:A:C8	2.42	0.55
1:AR:824:C:H2'	1:AR:825:U:C6	2.41	0.55
1:AR:1901:A:O2'	1:AR:2918:G:OP1	2.23	0.55
1:AR:2560:C:O2	84:AR:3534:OHX:N2	2.39	0.55
1:AR:2608:G:H2'	1:AR:2609:A:H8	1.71	0.55
1:AR:2801:A:O2'	1:AR:2802:A:H2'	2.07	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:3074:G:OP1	84:AR:3619:OHX:N4	2.40	0.55
11:CK:9:GLN:O	11:CK:72:LYS:NZ	2.31	0.55
15:CO:13:ARG:NH1	15:CO:65:LEU:O	2.38	0.55
20:CT:160:GLU:HA	20:CT:163:ARG:HB2	1.88	0.55
26:CY:4:GLU:HG2	26:CY:30:ARG:HD3	1.88	0.55
33:DF:72:ARG:HD3	33:DF:104:LEU:HD13	1.88	0.55
37:DJ:74:LYS:HE3	37:DJ:75:TYR:CE2	2.41	0.55
25:A:147:A:H2'	25:A:148:A:O4'	2.06	0.55
52:E:113:LEU:HD21	52:E:117:ARG:NH1	2.21	0.55
62:O:17:PRO:HG3	76:c:28:PRO:HG3	1.88	0.55
64:Q:28:MET:HE3	64:Q:33:PHE:HA	1.87	0.55
78:e:22:ARG:HG2	78:e:37:ASN:O	2.06	0.55
54:s5:222:LYS:HA	54:s5:225:ARG:NH1	2.20	0.55
67:c8:84:TRP:HA	67:c8:89:GLN:HE22	1.71	0.55
1:1:541:U:O4	84:1:3725:OHX:N6	2.39	0.55
1:1:728:G:OP1	84:1:3641:OHX:N5	2.38	0.55
5:k:229:VAL:HG13	5:k:235:THR:HG21	1.87	0.55
10:p:153:ILE:HG23	10:p:163:VAL:HG21	1.88	0.55
16:v:27:VAL:HB	16:v:122:ASN:ND2	2.21	0.55
25:6:427:C:O2'	25:6:459:G:N3	2.27	0.55
25:6:1474:G:OP1	54:s5:109:LYS:NZ	2.39	0.55
25:6:1553:G:O6	64:c5:43:ARG:NH1	2.39	0.55
27:8:135:ILE:HD11	27:8:138:ARG:HH11	1.71	0.55
43:AO:2:ARG:HH11	25:A:1772:C:H3'	1.70	0.55
1:AR:90:C:C2'	1:AR:91:G:H5'	2.36	0.55
1:AR:408:A:N3	1:AR:655:C:O2'	2.35	0.55
1:AR:1307:G:H5''	17:CQ:60:LYS:HE3	1.88	0.55
1:AR:2731:U:H2'	1:AR:2732:G:C8	2.40	0.55
1:AR:2738:A:H5'	31:DD:36:ASP:OD1	2.06	0.55
1:AR:2786:G:N2	30:DC:58:MET:SD	2.76	0.55
1:AR:2793:G:N7	84:AR:3490:OHX:N4	2.55	0.55
4:CD:204:MET:HB2	4:CD:208:ASP:HB2	1.88	0.55
5:CE:25:ILE:H	5:CE:25:ILE:CD1	2.17	0.55
10:CJ:190:VAL:HG22	10:CJ:192:GLN:HE21	1.70	0.55
11:CK:20:ILE:HG12	11:CK:25:VAL:HG22	1.89	0.55
49:B:172:LEU:O	49:B:176:LEU:HG	2.06	0.55
50:C:104:ASP:HA	50:C:214:LYS:HG3	1.87	0.55
58:K:23:ARG:NH1	58:K:27:GLU:OE2	2.38	0.55
71:X:37:PHE:CD2	71:X:103:ILE:HD12	2.41	0.55
72:Y:102:VAL:HG12	72:Y:127:VAL:HG12	1.89	0.55
51:s2:233:GLN:HG3	51:s2:234:PRO:HD2	1.89	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:s6:142:ARG:O	55:s6:146:GLY:N	2.39	0.55
83:e1:103:LEU:HD23	83:e1:105:TYR:HD1	1.71	0.55
1:1:2186:U:O2'	1:1:2313:A:N3	2.34	0.55
1:1:2728:G:N7	22:2:87:LYS:NZ	2.39	0.55
5:k:233:TRP:CD1	5:k:265:ALA:HB1	2.42	0.55
5:k:307:PRO:HA	5:k:361:THR:O	2.05	0.55
6:l:282:SER:OG	6:l:283:THR:N	2.39	0.55
13:s:53:THR:HG23	13:s:59:ILE:O	2.06	0.55
16:v:16:SER:HB2	38:AJ:48:ALA:HB1	1.87	0.55
18:x:10:ASN:HD22	18:x:13:LYS:HZ3	1.55	0.55
22:2:6:GLY:H	22:2:9:SER:HB2	1.70	0.55
24:l:74:MET:HG3	24:l:102:ILE:HD13	1.88	0.55
25:6:486:G:O6	25:6:488:G:N2	2.30	0.55
29:AA:22:LYS:HE3	29:AA:134:LEU:HB2	1.87	0.55
32:AD:24:THR:HG23	32:AD:30:THR:HG22	1.87	0.55
1:AR:407:A:C2	3:AT:17:A:H1'	2.41	0.55
1:AR:1211:U:H2'	1:AR:1212:A:C8	2.42	0.55
1:AR:1238:C:H2'	1:AR:1239:C:C6	2.41	0.55
1:AR:1659:U:H2'	1:AR:1660:C:C6	2.42	0.55
1:AR:2209:U:O2'	1:AR:2210:G:OP1	2.24	0.55
3:AT:36:G:N2	3:AT:37:A:N1	2.55	0.55
4:CD:54:ARG:HG2	4:CD:56:ALA:H	1.71	0.55
23:CW:77:LYS:O	23:CW:81:LYS:HB2	2.07	0.55
24:CX:102:ILE:HG13	24:CX:110:LYS:HB2	1.88	0.55
27:CZ:73:MET:HE1	27:CZ:141:TYR:CE1	2.40	0.55
30:DC:46:ASP:OD1	30:DC:46:ASP:N	2.40	0.55
31:DD:14:ARG:HH12	31:DD:18:ARG:HH11	1.53	0.55
25:A:406:U:O2'	55:H:94:ARG:NH2	2.40	0.55
25:A:422:G:OP1	84:A:1920:OHX:N6	2.40	0.55
49:B:150:ASP:OD2	49:B:165:ARG:NH2	2.17	0.55
54:G:162:VAL:HA	77:d:45:LYS:HB3	1.88	0.55
62:O:54:LEU:HB3	62:O:60:VAL:HB	1.88	0.55
63:P:125:SER:OG	63:P:126:THR:N	2.38	0.55
73:Z:36:SER:HB3	73:Z:39:GLU:HB3	1.89	0.55
49:s0:126:PRO:HG2	49:s0:152:PRO:HD2	1.88	0.55
60:c1:16:GLN:HE22	60:c1:34:TRP:H	1.54	0.55
62:c3:96:VAL:O	62:c3:100:LYS:HG2	2.06	0.55
1:1:1317:A:O2'	1:1:1318:A:H3'	2.06	0.55
1:1:3393:U:H2'	1:1:3394:U:C6	2.41	0.55
5:k:114:VAL:HG22	5:k:163:HIS:CE1	2.42	0.55
5:k:369:ARG:HH11	26:7:11:ALA:HB2	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m:111:GLN:HA	7:m:116:ASP:HB2	1.89	0.55
13:s:162:TRP:CZ2	13:s:166:LYS:HD2	2.42	0.55
18:x:24:VAL:HG13	18:x:86:LYS:HG2	1.89	0.55
25:6:152:U:C2	25:6:163:G:N2	2.75	0.55
25:6:1661:U:H2'	25:6:1662:G:C8	2.41	0.55
1:AR:1823:A:OP1	84:AR:3560:OHX:N4	2.39	0.55
1:AR:2700:G:N7	84:AR:3432:OHX:N6	2.54	0.55
7:CG:163:LEU:HD11	7:CG:175:HIS:CG	2.41	0.55
21:CU:73:LYS:NZ	21:CU:97:VAL:O	2.37	0.55
32:DE:17:VAL:HG11	32:DE:92:ILE:HD12	1.87	0.55
50:C:144:ARG:HG3	50:C:145:LYS:O	2.06	0.55
53:F:11:ARG:C	53:F:13:ALA:H	2.15	0.55
55:H:138:ALA:HB1	55:H:142:ARG:HH12	1.72	0.55
81:h:272:ASP:OD1	81:h:273:ASP:N	2.40	0.55
51:s2:63:VAL:HG13	51:s2:68:ILE:HD12	1.88	0.55
69:d0:27:THR:HB	69:d0:88:LYS:HG3	1.89	0.55
71:d2:22:LYS:HD2	76:d7:3:LEU:HD22	1.88	0.55
1:1:94:G:H2'	1:1:95:A:C8	2.41	0.55
1:1:1180:A:H5''	35:AG:77:ASN:HB2	1.88	0.55
1:1:3113:A:H4'	11:q:69:ARG:HB3	1.89	0.55
2:3:85:G:N7	84:3:202:OHX:N4	2.55	0.55
25:6:1316:G:OP1	82:c7:7:LYS:N	2.40	0.55
25:6:1354:G:H5'	25:6:1355:C:OP2	2.07	0.55
25:6:1522:U:OP2	84:6:1934:OHX:N6	2.39	0.55
1:AR:385:A:H2'	1:AR:386:A:C8	2.40	0.55
1:AR:1838:G:H4'	1:AR:1839:A:N3	2.21	0.55
3:AT:26:U:H2'	3:AT:27:U:C6	2.41	0.55
5:CE:306:THR:OG1	5:CE:316:GLU:O	2.21	0.55
7:CG:40:HIS:CD2	22:CV:69:LYS:HA	2.41	0.55
11:CK:26:LYS:HA	11:CK:35:THR:HG22	1.89	0.55
25:A:687:G:H5'	71:X:119:LYS:HD2	1.87	0.55
54:G:106:LYS:HB3	54:G:109:LYS:HB2	1.87	0.55
64:Q:85:ILE:HG22	64:Q:112:LEU:HD23	1.89	0.55
49:s0:126:PRO:HB2	49:s0:152:PRO:HG2	1.88	0.55
50:s1:87:ARG:NH2	50:s1:89:ASP:OD1	2.40	0.55
55:s6:12:SER:HB2	55:s6:124:LEU:HD12	1.88	0.55
61:c2:31:VAL:HG22	61:c2:132:GLU:HG3	1.88	0.55
63:c4:125:SER:OG	63:c4:126:THR:N	2.36	0.55
67:c8:27:LYS:O	67:c8:31:ALA:N	2.40	0.55
74:d5:40:VAL:HG23	74:d5:41:ILE:HG23	1.89	0.55
79:e0:53:LYS:HD3	79:e0:55:ARG:HE	1.72	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:718:G:N2	1:1:721:G:H1'	2.22	0.55
1:1:979:U:H1'	1:1:980:A:C8	2.42	0.55
1:1:1499:C:H2'	1:1:1500:G:C8	2.42	0.55
1:1:2309:A:H4'	84:1:3672:OHX:N1	2.21	0.55
1:1:3330:A:H4'	5:k:366:GLY:HA3	1.89	0.55
17:w:119:VAL:HB	17:w:124:LEU:HD21	1.89	0.55
25:6:1133:A:H2'	25:6:1134:C:O4'	2.06	0.55
25:6:1477:G:H2'	25:6:1478:G:C8	2.42	0.55
34:AF:103:LYS:O	34:AF:106:VAL:HG22	2.07	0.55
1:AR:625:G:OP1	84:AR:3635:OHX:N6	2.40	0.55
1:AR:955:U:H2'	1:AR:956:U:H6	1.72	0.55
1:AR:1058:U:O4	84:AR:3683:OHX:N4	2.40	0.55
1:AR:2561:A:HO2'	1:AR:2562:A:H5''	1.72	0.55
1:AR:3152:U:O2	84:AR:3723:OHX:N5	2.39	0.55
2:AS:58:C:OP1	84:AS:202:OHX:N3	2.40	0.55
6:CF:299:ILE:HG22	6:CF:300:ARG:O	2.07	0.55
19:CS:30:VAL:O	19:CS:34:THR:HG23	2.07	0.55
26:CY:33:ASN:OD1	26:CY:35:LYS:HB3	2.07	0.55
35:DH:11:GLY:O	35:DH:98:VAL:N	2.40	0.55
45:DR:56:THR:HG22	45:DR:63:THR:HG23	1.87	0.55
25:A:278:U:H4'	25:A:279:G:O5'	2.07	0.55
25:A:1698:G:H22	25:A:1703:C:H42	1.55	0.55
56:I:25:VAL:HA	56:I:28:GLU:HB2	1.88	0.55
66:S:14:LYS:HE2	66:S:68:GLY:O	2.06	0.55
66:S:60:ARG:HG3	66:S:66:VAL:HG21	1.89	0.55
72:Y:79:ASN:HB3	72:Y:81:LYS:H	1.72	0.55
56:s7:102:PRO:HD3	56:s7:112:ARG:HD3	1.88	0.55
1:1:1245:A:N6	1:1:1272:C:O2'	2.39	0.55
1:1:2094:C:H2'	1:1:2095:G:C8	2.40	0.55
17:w:121:PRO:HA	17:w:124:LEU:HD23	1.89	0.55
33:AE:20:LEU:HD11	33:AE:32:ALA:HB2	1.89	0.55
1:AR:1785:U:H2'	1:AR:1786:G:H8	1.72	0.55
1:AR:1937:U:OP1	84:AR:3476:OHX:N6	2.40	0.55
5:CE:111:SER:O	5:CE:114:VAL:HG23	2.06	0.55
5:CE:261:MET:O	5:CE:264:VAL:HG12	2.07	0.55
32:DE:13:LYS:HB3	32:DE:100:ILE:HG22	1.88	0.55
25:A:169:A:OP1	55:H:137:ARG:HG3	2.06	0.55
25:A:560:U:H2'	25:A:561:G:H8	1.72	0.55
25:A:868:G:H1	25:A:960:U:H3	1.54	0.55
71:X:23:ARG:NH1	71:X:66:ASN:HA	2.22	0.55
52:s3:69:LEU:HA	52:s3:72:LEU:HD12	1.87	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:s5:41:LYS:HZ3	54:s5:67:PRO:C	2.14	0.55
71:d2:106:THR:HG21	71:d2:121:VAL:HG23	1.88	0.55
1:1:643:U:O2'	1:1:1153:A:N1	2.33	0.55
1:1:1126:G:H5''	12:r:119:TRP:HZ3	1.71	0.55
1:1:2997:G:N7	84:1:3691:OHX:N5	2.55	0.55
5:k:115:LYS:NZ	5:k:129:ALA:O	2.40	0.55
1:AR:366:A:OP1	6:CF:95:ARG:NH2	2.37	0.55
1:AR:1750:A:H4'	1:AR:1751:G:H5'	1.88	0.55
1:AR:2561:A:O2'	1:AR:2562:A:H5''	2.07	0.55
1:AR:2877:G:O6	84:AR:3739:OHX:N4	2.40	0.55
1:AR:3074:G:OP1	84:AR:3619:OHX:N1	2.40	0.55
7:CG:218:ARG:NH2	7:CG:221:GLU:OE2	2.39	0.55
19:CS:170:ARG:HH11	30:DC:57:GLY:H	1.55	0.55
29:DB:53:VAL:HA	29:DB:57:HIS:HD2	1.71	0.55
38:DK:33:ALA:HB1	38:DK:38:LYS:HE3	1.87	0.55
40:DM:8:ILE:H	40:DM:8:ILE:HD12	1.72	0.55
25:A:523:G:O2'	25:A:529:A:N6	2.39	0.55
25:A:1254:U:OP2	61:N:46:ARG:NH1	2.36	0.55
53:F:57:ASN:HB2	53:F:60:GLU:HG3	1.89	0.55
62:O:115:LEU:HD22	62:O:119:GLU:HG3	1.89	0.55
64:Q:53:PRO:HB2	64:Q:57:MET:HG2	1.89	0.55
64:Q:57:MET:HE1	64:Q:89:MET:HE3	1.89	0.55
54:s5:73:THR:CG2	65:c6:114:ARG:HE	2.19	0.55
73:d4:29:HIS:HB2	73:d4:67:GLY:HA2	1.87	0.55
1:1:1352:A:H4'	1:1:1353:U:OP1	2.06	0.55
1:1:2193:U:H5'	1:1:2194:G:H5'	1.89	0.55
1:1:2808:A:O2'	1:1:2969:A:OP1	2.22	0.55
15:u:72:LEU:HD22	15:u:73:PRO:HD2	1.88	0.55
25:6:768:C:C2	58:s9:143:ILE:HG12	2.41	0.55
25:6:1758:U:O4	84:6:1901:OHX:N6	2.40	0.55
25:6:1795:U:O2	75:d6:10:ARG:NE	2.39	0.55
38:AJ:55:ARG:O	38:AJ:58:ILE:HG12	2.06	0.55
1:AR:1734:G:O6	84:AR:3469:OHX:N5	2.39	0.55
7:CG:200:PHE:HB3	7:CG:237:GLU:HG3	1.88	0.55
9:CI:118:LYS:HG3	9:CI:191:VAL:HG11	1.89	0.55
9:CI:136:TYR:CZ	9:CI:231:ASN:HB2	2.41	0.55
17:CQ:51:LYS:HE2	17:CQ:144:SER:OG	2.07	0.55
21:CU:141:LYS:HA	21:CU:144:LEU:HD12	1.89	0.55
22:CV:14:MET:HE3	22:CV:15:PHE:CE1	2.41	0.55
27:CZ:115:ARG:HD3	27:CZ:121:LYS:HE3	1.89	0.55
25:A:373:G:N7	84:A:2037:OHX:N6	2.56	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1338:C:N4	25:A:1339:C:H41	2.05	0.55
25:A:1794:A:C6	75:b:76:SER:HB3	2.41	0.55
50:C:58:SER:O	50:C:62:LYS:NZ	2.30	0.55
74:a:43:ASP:O	74:a:46:LYS:N	2.28	0.55
49:s0:105:GLY:N	49:s0:135:GLU:OE2	2.34	0.55
49:s0:195:TRP:CE2	49:s0:197:ILE:HB	2.42	0.55
57:s8:117:TYR:CE1	57:s8:150:ALA:HA	2.41	0.55
67:c8:42:TYR:HE2	67:c8:73:MET:HG3	1.72	0.55
71:d2:73:GLY:HA3	71:d2:128:PHE:CE1	2.43	0.55
1:1:92:G:H5'	1:1:93:C:O5'	2.07	0.54
1:1:2261:G:OP2	84:1:3619:OHX:N1	2.40	0.54
1:1:2407:C:H1'	1:1:2818:U:C2	2.43	0.54
3:4:59:A:H5''	3:4:61:A:C8	2.42	0.54
22:2:12:ARG:HD3	22:2:13:TYR:CZ	2.41	0.54
36:AH:109:THR:HA	36:AH:112:ALA:HB3	1.89	0.54
1:AR:1345:G:O6	84:AR:3568:OHX:N1	2.40	0.54
17:CQ:65:ASN:OD1	17:CQ:67:THR:HB	2.08	0.54
20:CT:86:GLU:OE2	20:CT:91:SER:OG	2.16	0.54
35:DH:85:PHE:CZ	35:DH:89:LEU:HD11	2.42	0.54
37:DJ:54:VAL:O	37:DJ:58:ILE:HG13	2.07	0.54
39:DL:5:THR:HA	39:DL:8:PHE:CD2	2.43	0.54
39:DL:62:GLY:O	84:DL:101:OHX:N3	2.40	0.54
41:DN:3:ALA:O	41:DN:5:LYS:HG3	2.06	0.54
25:A:1619:C:H2'	25:A:1620:C:C6	2.41	0.54
64:Q:123:TYR:OH	67:T:122:HIS:NE2	2.33	0.54
73:Z:35:VAL:HG13	73:Z:36:SER:H	1.72	0.54
1:1:402:A:OP1	41:AM:36:ARG:NH2	2.38	0.54
1:1:779:G:OP1	19:y:185:LYS:NZ	2.40	0.54
1:1:1235:U:H4'	1:1:1236:G:H5'	1.89	0.54
1:1:1390:A:H4'	1:1:1391:C:H5''	1.89	0.54
1:1:2663:G:O6	84:1:3405:OHX:N6	2.40	0.54
1:1:2828:G:OP1	12:r:7:ARG:NH1	2.40	0.54
5:k:347:SER:C	5:k:349:LYS:H	2.14	0.54
16:v:186:GLY:O	16:v:190:THR:HG23	2.08	0.54
1:AR:308:A:H5'	1:AR:2223:A:O2'	2.07	0.54
4:CD:3:ARG:H	4:CD:207:VAL:HG12	1.72	0.54
5:CE:284:ARG:NH2	5:CE:293:ASN:O	2.37	0.54
21:CU:1:MET:HE1	21:CU:32:SER:H	1.73	0.54
22:CV:54:HIS:CE1	22:CV:55:LYS:HG2	2.41	0.54
27:CZ:132:ALA:O	27:CZ:136:ALA:N	2.39	0.54
25:A:689:G:O6	84:A:2029:OHX:N1	2.40	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:P:81:VAL:HG22	63:P:115:ILE:HB	1.89	0.54
65:R:46:PHE:O	65:R:50:GLU:HG3	2.07	0.54
52:s3:72:LEU:HD22	59:c0:65:TYR:HD2	1.71	0.54
58:s9:110:GLN:OE1	58:s9:126:ARG:HG2	2.08	0.54
59:c0:59:PHE:CZ	59:c0:62:GLN:HA	2.42	0.54
1:1:407:A:C2	3:4:17:A:H1'	2.41	0.54
1:1:583:G:N7	84:1:3542:OHX:N6	2.54	0.54
1:1:2230:C:OP2	84:1:3724:OHX:N5	2.41	0.54
1:1:2258:U:OP2	84:1:3471:OHX:N5	2.40	0.54
1:1:3042:U:OP2	1:1:3092:C:N4	2.40	0.54
1:1:3057:U:H5'	1:1:3086:A:H61	1.72	0.54
1:1:3195:U:O2'	1:1:3197:G:N2	2.40	0.54
1:1:3276:G:O6	18:x:171:ARG:NH1	2.37	0.54
3:4:58:G:O6	39:AK:63:ARG:NH2	2.40	0.54
6:l:281:ILE:HG22	19:y:25:TYR:HB3	1.89	0.54
25:6:1258:U:H5	25:6:1259:U:C4	2.25	0.54
1:AR:1081:U:OP1	84:AR:3500:OHX:N3	2.39	0.54
1:AR:2582:C:OP1	84:AR:3630:OHX:N3	2.41	0.54
1:AR:2960:C:OP1	84:AR:3472:OHX:N3	2.40	0.54
3:AT:87:G:O6	84:AT:214:OHX:N1	2.41	0.54
7:CG:148:ILE:HG12	7:CG:159:VAL:HG21	1.88	0.54
18:CR:23:ARG:O	18:CR:86:LYS:HE2	2.07	0.54
22:CV:40:VAL:HB	22:CV:96:ILE:HG13	1.90	0.54
57:J:8:ARG:HH21	57:J:21:PHE:HB3	1.72	0.54
57:J:150:ALA:O	57:J:152:ILE:HG13	2.07	0.54
75:b:84:VAL:HG13	75:b:85:ARG:H	1.73	0.54
51:s2:225:LEU:HD22	51:s2:230:TRP:HD1	1.73	0.54
61:c2:43:ARG:HB3	61:c2:121:VAL:HG12	1.89	0.54
1:1:1659:U:H2'	1:1:1660:C:C6	2.42	0.54
1:1:2308:C:O2	84:1:3696:OHX:N2	2.40	0.54
1:1:2812:C:H2'	1:1:2813:A:C8	2.42	0.54
7:m:155:THR:HG22	7:m:179:ARG:NH1	2.22	0.54
10:p:109:LEU:O	10:p:113:ALA:N	2.41	0.54
15:u:39:ILE:HG13	15:u:44:VAL:HA	1.90	0.54
25:6:500:C:O2'	25:6:501:U:O4'	2.23	0.54
25:6:1784:C:H2'	25:6:1785:U:H6	1.73	0.54
33:AE:17:HIS:HB2	33:AE:69:TYR:HB3	1.87	0.54
1:AR:2102:U:H2'	1:AR:2103:U:C6	2.43	0.54
1:AR:2536:A:H5''	50:s1:226:GLY:HA3	1.89	0.54
1:AR:3106:A:H2'	1:AR:3107:U:O4'	2.08	0.54
6:CF:131:VAL:O	6:CF:135:VAL:HG23	2.07	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:38:THR:HG22	22:CV:30:TYR:HB3	1.88	0.54
8:CH:60:ASP:O	8:CH:61:ASN:HB2	2.06	0.54
9:CI:120:THR:H	9:CI:123:THR:HG1	1.55	0.54
9:CI:156:ILE:HD12	9:CI:161:VAL:HG21	1.90	0.54
14:CN:56:PRO:HG3	14:CN:74:GLY:C	2.33	0.54
17:CQ:73:PHE:CD1	17:CQ:78:ARG:HG2	2.43	0.54
27:CZ:34:LEU:HD22	27:CZ:35:PRO:HD2	1.88	0.54
25:A:82:U:H2'	25:A:83:G:O4'	2.06	0.54
25:A:788:A:C4	53:F:19:LEU:HD13	2.43	0.54
25:A:1711:C:H2'	25:A:1712:A:H5''	1.89	0.54
50:C:201:THR:HG21	50:C:207:LEU:HD22	1.90	0.54
52:E:211:PRO:HG3	66:S:20:TYR:CZ	2.42	0.54
52:E:222:VAL:HG23	81:h:192:PHE:HA	1.90	0.54
70:W:70:ASN:HB3	70:W:83:TRP:HB2	1.90	0.54
77:d:15:VAL:HA	77:d:28:VAL:HG22	1.87	0.54
52:s3:53:THR:HG22	52:s3:91:VAL:HG11	1.89	0.54
70:d1:9:VAL:HG22	70:d1:10:GLU:H	1.71	0.54
71:d2:90:THR:HB	71:d2:94:LEU:HD12	1.89	0.54
72:d3:69:ARG:HD2	72:d3:116:ASP:OD1	2.08	0.54
76:d7:6:ASP:OD2	76:d7:9:HIS:ND1	2.41	0.54
1:1:3088:G:OP2	84:1:3714:OHX:N3	2.40	0.54
1:1:3239:G:O6	84:1:3506:OHX:N6	2.40	0.54
2:3:93:C:O5'	12:r:57:LEU:HD12	2.07	0.54
12:r:205:SER:O	12:r:209:ASN:HB2	2.08	0.54
25:6:83:G:OP2	84:6:1953:OHX:N4	2.40	0.54
25:6:492:A:H1'	25:6:496:G:H1	1.71	0.54
25:6:900:A:OP1	63:c4:43:THR:OG1	2.20	0.54
25:6:1458:G:H5''	25:6:1459:C:OP2	2.08	0.54
25:6:1603:U:H2'	25:6:1604:U:H6	1.72	0.54
1:AR:1611:G:H2'	1:AR:1612:A:C8	2.42	0.54
1:AR:2882:U:H2'	1:AR:2883:U:C6	2.42	0.54
23:CW:28:PHE:HE1	23:CW:83:TYR:HE2	1.56	0.54
25:A:626:U:H2'	25:A:627:C:H6	1.71	0.54
72:Y:61:SER:HB2	72:Y:116:ASP:HB2	1.88	0.54
75:b:87:ARG:HB3	75:b:91:ASP:HB3	1.90	0.54
53:s4:31:PRO:HD2	53:s4:38:LEU:HD13	1.89	0.54
58:s9:118:LEU:HD23	58:s9:158:PHE:CE2	2.42	0.54
58:s9:132:ARG:HB2	58:s9:140:ILE:HG21	1.88	0.54
82:c7:33:ARG:NH2	81:sR:109:ASP:OD1	2.41	0.54
81:sR:6:VAL:N	81:sR:316:MET:O	2.36	0.54
1:1:542:G:O6	84:1:3725:OHX:N2	2.41	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2718:U:H2'	1:1:2719:U:C6	2.43	0.54
1:1:3049:A:H5''	5:k:53:MET:HB2	1.88	0.54
1:1:3074:G:O6	84:1:3668:OHX:N5	2.40	0.54
5:k:188:ILE:HD12	5:k:189:SER:H	1.72	0.54
25:6:93:A:C6	25:6:398:G:C6	2.95	0.54
25:6:152:U:O2	25:6:163:G:N2	2.41	0.54
25:6:539:G:H8	25:6:539:G:OP2	1.91	0.54
1:AR:1587:A:OP1	84:AR:3492:OHX:N3	2.40	0.54
1:AR:2696:A:H2'	1:AR:2697:A:C8	2.42	0.54
5:CE:152:LYS:HG2	5:CE:189:SER:HA	1.89	0.54
7:CG:148:ILE:HD11	7:CG:159:VAL:HG11	1.89	0.54
14:CN:64:LYS:HG3	30:DC:69:TRP:CG	2.43	0.54
20:CT:90:PRO:HB2	20:CT:93:VAL:HG23	1.90	0.54
24:CX:30:GLY:HA3	24:CX:66:LYS:HE3	1.90	0.54
25:A:588:U:OP2	79:f:26:LYS:NZ	2.36	0.54
25:A:1731:A:H5''	25:A:1732:A:OP2	2.07	0.54
55:H:57:ASP:HB3	55:H:106:LEU:HD23	1.89	0.54
55:H:78:THR:HG22	55:H:92:ARG:HG2	1.89	0.54
60:M:99:ARG:HB3	72:Y:9:LEU:O	2.08	0.54
65:R:55:VAL:HG22	65:R:59:LYS:HE3	1.90	0.54
67:T:36:LYS:O	67:T:102:ALA:N	2.41	0.54
75:d6:45:VAL:HG21	75:d6:64:LEU:HD13	1.89	0.54
75:d6:90:GLU:H	75:d6:90:GLU:CD	2.16	0.54
76:d7:23:THR:HG21	76:d7:29:ARG:HH21	1.71	0.54
77:d8:11:LYS:O	77:d8:31:GLU:N	2.36	0.54
81:sR:225:LEU:HD12	81:sR:228:LYS:HG3	1.89	0.54
1:1:1048:A:H2'	12:r:22:TYR:CZ	2.43	0.54
1:1:1580:A:OP1	4:j:68:LYS:NZ	2.41	0.54
1:1:2724:U:OP1	22:2:57:TYR:OH	2.19	0.54
1:1:3139:A:OP1	5:k:274:SER:OG	2.17	0.54
1:1:3308:C:O2	18:x:69:ARG:HD3	2.08	0.54
4:j:42:ARG:HD2	4:j:87:PHE:CD1	2.42	0.54
10:p:78:PHE:C	10:p:80:TYR:H	2.15	0.54
11:q:171:ASP:OD2	11:q:173:ARG:NH1	2.40	0.54
14:t:94:GLY:HA3	37:AI:116:TYR:OH	2.08	0.54
14:t:126:PHE:O	37:AI:114:ARG:NH2	2.41	0.54
25:6:29:U:H2'	25:6:30:G:H8	1.72	0.54
25:6:767:U:C5	58:s9:143:ILE:HD13	2.43	0.54
25:6:846:G:H2'	25:6:847:A:C8	2.42	0.54
25:6:919:A:H2'	25:6:920:U:C6	2.43	0.54
25:6:1317:C:H2'	25:6:1318:G:O4'	2.08	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:189:G:OP2	28:DA:46:LYS:NZ	2.40	0.54
1:AR:329:U:OP2	84:AR:3552:OHX:N5	2.41	0.54
1:AR:754:G:H2'	1:AR:755:A:H8	1.72	0.54
1:AR:2514:U:OP2	1:AR:2586:G:N2	2.32	0.54
5:CE:123:TYR:CZ	5:CE:124:LYS:HG3	2.43	0.54
7:CG:220:SER:O	7:CG:224:LYS:HB2	2.07	0.54
20:CT:81:ARG:HG2	20:CT:88:ARG:CZ	2.38	0.54
27:CZ:115:ARG:NH1	27:CZ:119:THR:OG1	2.41	0.54
37:DJ:101:THR:HG23	37:DJ:104:GLN:HB2	1.90	0.54
25:A:1670:G:O6	84:A:2000:OHX:N5	2.40	0.54
53:F:206:ASP:N	53:F:206:ASP:OD1	2.41	0.54
59:L:27:PHE:CD1	59:L:40:LEU:HD23	2.42	0.54
69:V:26:LEU:N	69:V:89:ARG:O	2.36	0.54
52:s3:75:LYS:HB3	59:c0:22:VAL:HG22	1.88	0.54
1:1:373:A:N1	1:1:394:G:H4'	2.23	0.54
1:1:2904:U:H2'	1:1:2905:U:C6	2.42	0.54
84:1:3406:OHX:N1	39:AK:46:SER:OG	2.41	0.54
5:k:291:GLU:OE1	5:k:292:ALA:N	2.37	0.54
9:o:88:ARG:NH1	9:o:91:GLY:O	2.40	0.54
25:6:765:G:N7	58:s9:149:ARG:NE	2.55	0.54
25:6:1427:A:O2'	25:6:1428:G:OP1	2.25	0.54
25:6:1572:G:H1'	54:s5:185:ARG:NH1	2.23	0.54
25:6:1688:U:H2'	25:6:1689:A:C8	2.43	0.54
38:AJ:26:ILE:H	38:AJ:26:ILE:HD12	1.72	0.54
1:AR:1078:U:H4'	7:CG:46:THR:HG21	1.89	0.54
1:AR:1284:C:O2'	1:AR:1285:G:OP1	2.23	0.54
11:CK:171:ASP:OD2	11:CK:173:ARG:NH1	2.40	0.54
12:CL:171:TRP:CE3	12:CL:178:ARG:HD2	2.43	0.54
25:A:1291:G:H5'	51:D:119:LYS:HE2	1.89	0.54
25:A:1335:U:H5'	69:V:85:ARG:HH22	1.72	0.54
25:A:1785:U:H2'	25:A:1786:G:H8	1.71	0.54
84:A:2038:OHX:N1	58:K:8:TYR:O	2.41	0.54
55:H:63:MET:HE2	55:H:106:LEU:HD22	1.89	0.54
69:V:70:THR:O	78:e:40:ARG:NH1	2.40	0.54
54:s5:41:LYS:HG2	54:s5:69:PHE:CZ	2.43	0.54
56:s7:164:TYR:CE2	56:s7:165:LYS:HG3	2.43	0.54
65:c6:93:HIS:HA	65:c6:97:VAL:HG23	1.90	0.54
81:sR:89:LEU:HB2	81:sR:103:PHE:HB2	1.89	0.54
1:1:22:G:H1'	3:4:104:A:N3	2.23	0.54
1:1:564:G:H2'	1:1:565:U:C6	2.43	0.54
1:1:2259:A:N1	25:A:1645:G:O2'	2.37	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:0:154:HIS:CE1	21:0:170:THR:HG21	2.42	0.54
29:AA:78:ASN:OD1	32:AD:35:ARG:NH2	2.35	0.54
43:AO:4:LYS:NZ	25:A:1775:U:O4	2.34	0.54
1:AR:586:C:OP2	35:DH:70:LYS:NZ	2.40	0.54
1:AR:1122:U:OP2	84:AR:3628:OHX:N2	2.40	0.54
1:AR:1613:A:H2'	1:AR:1614:C:C6	2.43	0.54
7:CG:40:HIS:CD2	7:CG:42:ALA:H	2.13	0.54
15:CO:14:LEU:H	15:CO:19:ARG:HH11	1.56	0.54
24:CX:6:ALA:HB2	24:CX:126:TRP:CH2	2.43	0.54
33:DF:79:ARG:NE	33:DF:79:ARG:H	2.06	0.54
25:A:17:C:O2'	25:A:1137:A:N1	2.34	0.54
25:A:86:A:O2'	25:A:147:A:N3	2.32	0.54
25:A:720:G:H1'	25:A:721:U:H5''	1.89	0.54
25:A:1165:G:C6	25:A:1166:A:C6	2.96	0.54
49:B:41:ARG:HD2	49:B:42:PRO:O	2.08	0.54
56:I:173:TYR:CE2	56:I:181:ILE:HD13	2.43	0.54
57:J:39:GLY:O	57:J:59:ARG:HB3	2.08	0.54
72:Y:51:GLY:HA2	72:Y:77:ILE:HG13	1.89	0.54
72:Y:56:LYS:HE3	72:Y:96:VAL:HG23	1.90	0.54
53:s4:95:THR:HB	73:d4:16:PRO:HG2	1.90	0.54
54:s5:112:ARG:HH11	65:c6:43:ILE:HG23	1.73	0.54
54:s5:208:SER:HB2	54:s5:211:ILE:HG12	1.88	0.54
59:c0:23:ALA:CB	59:c0:64:TYR:HB2	2.38	0.54
65:c6:66:ARG:HH21	65:c6:68:ARG:HD3	1.73	0.54
1:1:297:G:OP2	1:1:297:G:N2	2.41	0.54
1:1:1238:C:N4	1:1:1245:A:OP2	2.41	0.54
1:1:1433:A:N3	34:AF:27:ARG:NH1	2.56	0.54
5:k:35:ASP:OD2	5:k:37:ARG:NH1	2.35	0.54
5:k:106:TRP:HB2	5:k:133:TYR:CE2	2.42	0.54
11:q:12:VAL:HB	11:q:51:GLN:HA	1.90	0.54
14:t:166:ALA:HB1	30:AB:147:LEU:HD21	1.90	0.54
14:t:171:ARG:HB3	14:t:171:ARG:NH2	2.23	0.54
25:6:22:A:OP2	84:6:2006:OHX:N6	2.41	0.54
37:AI:85:THR:HB	37:AI:88:LEU:HD12	1.90	0.54
40:AL:66:ILE:HA	40:AL:69:LEU:HD23	1.90	0.54
1:AR:3047:U:H5'	5:CE:329:PRO:HA	1.90	0.54
5:CE:41:VAL:HA	5:CE:185:GLY:CA	2.32	0.54
20:CT:17:VAL:CG1	20:CT:21:LYS:HB2	2.38	0.54
29:DB:46:ILE:HD11	29:DB:49:TYR:HA	1.89	0.54
25:A:626:U:H2'	25:A:627:C:C6	2.43	0.54
25:A:649:U:O2'	25:A:650:U:O5'	2.22	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:C:61:LEU:O	50:C:63:GLY:N	2.40	0.54
56:I:30:SER:C	56:I:32:PRO:HD3	2.33	0.54
59:L:31:LYS:NZ	59:L:36:ASP:OD1	2.37	0.54
73:Z:112:LYS:O	73:Z:116:LYS:HG3	2.08	0.54
1:1:36:C:O2'	1:1:808:A:N1	2.39	0.53
1:1:240:U:OP2	37:AI:94:LYS:HE2	2.07	0.53
1:1:1913:A:N3	1:1:2120:A:H2'	2.23	0.53
1:1:2151:C:O2'	1:1:2243:A:N1	2.36	0.53
9:o:136:TYR:CZ	9:o:231:ASN:HB2	2.43	0.53
23:5:56:VAL:HG22	23:5:65:VAL:HG22	1.90	0.53
25:6:68:A:H5'	55:s6:160:ARG:HH12	1.72	0.53
25:6:339:C:OP2	57:s8:10:LYS:HE2	2.08	0.53
25:6:959:U:H5'	76:d7:28:PRO:HB3	1.90	0.53
25:6:1068:C:H2'	25:6:1069:A:C8	2.44	0.53
25:6:1297:G:N2	25:6:1300:A:OP2	2.39	0.53
25:6:1642:G:O3'	43:DP:9:ARG:NH2	2.41	0.53
35:AG:59:VAL:HG23	35:AG:60:ARG:H	1.73	0.53
1:AR:692:A:OP1	16:CP:201:ARG:NH2	2.41	0.53
1:AR:1039:U:H2'	1:AR:1040:A:C8	2.43	0.53
1:AR:1132:C:H2'	1:AR:1133:A:H8	1.73	0.53
1:AR:2767:U:O2'	44:DQ:30:ALA:O	2.26	0.53
1:AR:3325:G:OP2	33:DF:70:ARG:NH1	2.40	0.53
11:CK:17:THR:HG23	11:CK:28:VAL:HB	1.88	0.53
11:CK:94:TYR:CD2	11:CK:98:PRO:HA	2.42	0.53
12:CL:206:LEU:O	12:CL:210:ILE:HG13	2.09	0.53
37:DJ:21:LEU:HD22	37:DJ:25:LYS:HE3	1.87	0.53
58:K:20:GLU:HB3	58:K:23:ARG:HB3	1.90	0.53
66:S:66:VAL:HB	66:S:69:ILE:HD11	1.90	0.53
51:s2:81:MET:HB2	51:s2:101:VAL:HG12	1.90	0.53
51:s2:143:TYR:CE2	51:s2:151:PRO:HG3	2.43	0.53
52:s3:64:ARG:HG2	52:s3:65:ARG:H	1.72	0.53
53:s4:77:ARG:HD2	53:s4:82:TYR:CE2	2.44	0.53
56:s7:173:TYR:HE1	56:s7:179:LYS:HB2	1.72	0.53
64:c5:127:ARG:O	64:c5:128:HIS:HB2	2.08	0.53
1:1:3151:U:OP1	5:k:128:LYS:NZ	2.40	0.53
84:1:3539:OHX:N6	3:4:140:G:O6	2.41	0.53
4:j:117:GLU:HB3	4:j:119:LYS:O	2.08	0.53
20:z:172:ARG:NH1	25:A:851:U:OP1	2.37	0.53
25:6:151:G:H1	25:6:163:G:H1	1.56	0.53
25:6:585:A:H2'	25:6:586:G:C8	2.44	0.53
25:6:1186:U:H2'	25:6:1187:U:O4'	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1335:U:H2'	25:6:1336:A:C8	2.43	0.53
25:6:1645:G:N2	25:6:1756:A:N1	2.54	0.53
1:AR:257:U:H2'	1:AR:258:G:H8	1.73	0.53
1:AR:789:A:H2'	1:AR:790:U:C6	2.43	0.53
1:AR:1159:A:O2'	1:AR:1160:C:H5'	2.08	0.53
1:AR:1214:U:OP2	21:CU:137:ARG:NH2	2.39	0.53
1:AR:2294:U:OP2	24:CX:71:LYS:NZ	2.37	0.53
2:AS:27:A:OP2	7:CG:57:ASN:HB2	2.08	0.53
15:CO:25:LYS:HE2	15:CO:62:GLN:HA	1.90	0.53
29:DB:15:ARG:C	29:DB:19:ALA:HB2	2.32	0.53
29:DB:83:THR:HG23	29:DB:85:TYR:H	1.73	0.53
45:DR:38:ASP:HA	45:DR:45:LYS:HA	1.90	0.53
47:p0:19:LEU:HD22	47:p0:73:PHE:CE1	2.43	0.53
25:A:383:G:N7	84:A:2008:OHX:N4	2.55	0.53
25:A:632:U:OP1	60:M:102:LYS:HG3	2.09	0.53
25:A:698:U:H1'	56:I:107:ARG:HH11	1.74	0.53
52:E:8:LYS:HE2	69:V:61:LYS:HD3	1.89	0.53
55:H:64:LYS:HB2	55:H:97:VAL:HG11	1.90	0.53
58:K:107:ARG:NH2	58:K:150:LEU:H	2.06	0.53
59:L:8:ARG:HD2	59:L:12:HIS:HE1	1.73	0.53
69:V:20:ILE:HD13	69:V:22:ILE:HD13	1.90	0.53
55:s6:121:LEU:HD23	55:s6:124:LEU:HD23	1.90	0.53
74:d5:43:ASP:C	74:d5:45:GLU:H	2.16	0.53
74:d5:54:VAL:HA	74:d5:57:TYR:CZ	2.43	0.53
1:1:255:A:H2'	1:1:256:G:H8	1.73	0.53
1:1:792:G:H2'	1:1:793:C:C6	2.43	0.53
1:1:1132:C:H2'	1:1:1133:A:H8	1.73	0.53
1:1:1636:U:H5''	29:AA:73:LYS:HZ2	1.73	0.53
1:1:2107:A:H2	1:1:3344:A:C8	2.26	0.53
1:1:2697:A:H2'	1:1:2698:G:C8	2.43	0.53
1:1:3217:C:C5	1:1:3220:G:H1'	2.44	0.53
2:3:22:A:H2'	2:3:23:A:C8	2.44	0.53
5:k:286:GLY:HA3	5:k:321:PHE:CE2	2.43	0.53
25:6:830:U:H2'	25:6:831:U:H5'	1.90	0.53
25:6:1099:U:OP1	71:d2:71:LYS:NZ	2.37	0.53
25:6:1698:G:H1	25:6:1703:C:H42	1.53	0.53
25:6:1783:C:H2'	25:6:1784:C:C6	2.42	0.53
30:AB:3:SER:O	30:AB:6:THR:HG22	2.09	0.53
30:AB:112:ILE:HB	30:AB:130:VAL:HG12	1.90	0.53
35:AG:90:PRO:O	35:AG:92:LYS:N	2.38	0.53
46:i:108:GLN:OE1	25:A:558:U:N3	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:155:G:H1'	38:DK:26:ILE:HD13	1.89	0.53
1:AR:1113:G:O2'	1:AR:1369:A:N3	2.35	0.53
1:AR:2700:G:OP1	22:CV:17:ARG:HB2	2.08	0.53
2:AS:7:G:O3'	7:CG:33:ARG:NH2	2.41	0.53
2:AS:14:U:OP1	84:AS:202:OHX:N4	2.41	0.53
3:AT:38:U:C4	37:DJ:89:ARG:HD2	2.44	0.53
6:CF:26:PHE:HA	6:CF:127:ALA:HA	1.89	0.53
14:CN:46:ILE:HG22	14:CN:49:ARG:HB2	1.91	0.53
29:DB:23:VAL:HG12	29:DB:45:GLY:HA3	1.90	0.53
32:DE:100:ILE:O	32:DE:103:THR:OG1	2.26	0.53
39:DL:8:PHE:O	39:DL:11:ARG:HG3	2.07	0.53
48:sM:65:THR:OG1	48:sM:66:ALA:N	2.40	0.53
25:A:592:A:O2'	25:A:596:C:OP1	2.26	0.53
25:A:703:G:H2'	25:A:704:C:H5'	1.90	0.53
25:A:1600:A:H4'	25:A:1601:G:OP1	2.08	0.53
49:B:198:MET:SD	49:B:199:PRO:HD2	2.47	0.53
51:D:212:LYS:O	51:D:216:VAL:HG23	2.07	0.53
66:S:20:TYR:O	66:S:24:LEU:HD12	2.08	0.53
53:s4:104:ASP:N	53:s4:108:ARG:O	2.40	0.53
54:s5:84:LYS:HD2	54:s5:92:ARG:HH12	1.74	0.53
57:s8:22:ARG:HD2	57:s8:25:ARG:NH2	2.23	0.53
67:c8:90:ASN:O	67:c8:95:GLY:HA2	2.07	0.53
1:1:671:U:OP2	19:y:57:ILE:HD12	2.08	0.53
1:1:675:C:O2'	1:1:679:U:OP1	2.26	0.53
1:1:1790:G:O6	84:1:3702:OHX:N4	2.42	0.53
1:1:1915:A:H5''	20:z:84:THR:HG22	1.90	0.53
1:1:3291:G:O6	84:1:3665:OHX:N2	2.41	0.53
24:l2:81:GLN:O	24:l2:95:PHE:HB2	2.07	0.53
25:6:531:C:OP2	84:6:1957:OHX:N5	2.41	0.53
25:6:558:U:OP1	79:e0:58:PRO:HA	2.09	0.53
25:6:737:A:H2'	25:6:738:G:H8	1.73	0.53
84:6:2037:OHX:N4	58:s9:8:TYR:O	2.41	0.53
27:8:86:VAL:HG11	27:8:95:ILE:HG12	1.89	0.53
35:AG:13:HIS:O	35:AG:95:GLY:N	2.35	0.53
1:AR:651:G:O2'	1:AR:1435:A:OP1	2.26	0.53
1:AR:1808:G:O6	84:AR:3527:OHX:N4	2.41	0.53
1:AR:3070:A:OP1	20:CT:62:ARG:HD3	2.09	0.53
6:CF:327:LEU:HA	9:CI:166:ASN:HD21	1.74	0.53
13:CM:109:HIS:CD2	13:CM:114:ILE:HG21	2.43	0.53
14:CN:105:ASN:HD21	38:DK:17:VAL:HG21	1.72	0.53
17:CQ:61:ALA:HA	17:CQ:70:PRO:HD2	1.90	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
17:CQ:128:ARG:HB3	17:CQ:128:ARG:HH11	1.72	0.53
25:A:169:A:H5''	55:H:176:GLN:HG2	1.89	0.53
25:A:246:G:H1'	60:M:40:LEU:HD13	1.89	0.53
62:O:87:ASP:OD1	62:O:88:LEU:N	2.41	0.53
81:h:62:LYS:O	81:h:92:TRP:HH2	1.90	0.53
58:s9:65:LYS:HA	58:s9:70:LEU:HD11	1.90	0.53
61:c2:59:LEU:HB3	61:c2:123:VAL:HB	1.90	0.53
1:l:1382:G:P	6:l:188:ARG:HH12	2.32	0.53
1:l:1492:G:O2'	41:AM:48:LYS:NZ	2.42	0.53
1:l:1659:U:O4	84:l:3702:OHX:N1	2.41	0.53
1:l:2274:U:OP2	84:l:3503:OHX:N4	2.41	0.53
1:l:3218:A:H5''	1:l:3219:G:C5	2.44	0.53
4:j:3:ARG:HG2	4:j:4:VAL:H	1.72	0.53
25:6:359:A:H61	72:d3:39:LYS:HE3	1.72	0.53
25:6:1561:U:H2'	25:6:1562:G:H8	1.73	0.53
41:AM:30:ARG:HB2	41:AM:33:ASN:HB2	1.90	0.53
46:i:68:ARG:NH2	67:T:145:ARG:HB2	2.23	0.53
46:i:107:ASN:CG	46:i:112:ASP:HB3	2.33	0.53
1:AR:1841:A:N3	41:DN:45:ARG:NH2	2.57	0.53
1:AR:2243:A:H3'	4:CD:244:GLY:HA2	1.89	0.53
1:AR:2542:U:H1'	1:AR:2543:U:H5	1.73	0.53
1:AR:2736:A:OP1	22:CV:92:ARG:NH1	2.42	0.53
7:CG:93:THR:O	7:CG:93:THR:OG1	2.25	0.53
7:CG:258:LYS:O	7:CG:259:LYS:HB3	2.08	0.53
8:CH:85:ILE:HG23	35:DH:107:ILE:HG21	1.90	0.53
38:DK:90:MET:O	38:DK:94:ILE:HG13	2.08	0.53
51:D:38:VAL:HG22	51:D:39:THR:H	1.73	0.53
49:s0:74:VAL:HG23	49:s0:118:PRO:HB3	1.90	0.53
51:s2:49:LYS:HD2	51:s2:243:TYR:CE2	2.44	0.53
56:s7:12:ALA:HB3	56:s7:13:PRO:HD3	1.91	0.53
64:c5:53:PRO:HB2	64:c5:57:MET:HE2	1.90	0.53
70:d1:1:MET:HE2	70:d1:10:GLU:HB2	1.91	0.53
72:d3:23:ARG:O	72:d3:26:GLU:HB2	2.09	0.53
74:d5:53:GLU:O	74:d5:56:THR:N	2.42	0.53
1:l:18:G:OP1	37:AI:81:ARG:NH2	2.41	0.53
1:l:670:C:OP1	19:y:147:ARG:NH2	2.42	0.53
1:l:1166:G:N7	84:l:3401:OHX:N4	2.57	0.53
1:l:1307:G:H5''	17:w:60:LYS:NZ	2.23	0.53
1:l:3326:G:H2'	1:l:3327:G:H8	1.72	0.53
5:k:303:LYS:HD2	5:k:361:THR:HG21	1.90	0.53
11:q:171:ASP:OD1	11:q:173:ARG:HD3	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:u:20:VAL:HG13	15:u:68:LEU:HB2	1.91	0.53
15:u:25:LYS:HE3	15:u:62:GLN:HG2	1.91	0.53
15:u:38:ILE:HD12	21:0:150:PHE:HE1	1.72	0.53
25:6:212:U:H2'	25:6:213:A:H8	1.74	0.53
25:6:1393:C:H2'	25:6:1394:G:H8	1.73	0.53
25:6:1503:A:H2'	25:6:1504:G:O4'	2.09	0.53
29:AA:46:ILE:HD13	29:AA:68:ILE:HG23	1.90	0.53
1:AR:2948:C:O2'	5:CE:242:THR:HG22	2.09	0.53
5:CE:376:LYS:HG3	5:CE:380:MET:HG3	1.90	0.53
9:CI:25:GLN:HA	9:CI:28:ALA:HB3	1.89	0.53
11:CK:76:ASP:O	11:CK:80:THR:OG1	2.26	0.53
18:CR:105:LYS:HB3	18:CR:107:LEU:HD13	1.91	0.53
25:A:882:U:H2'	25:A:883:C:C6	2.44	0.53
50:C:175:GLU:O	50:C:187:LYS:NZ	2.40	0.53
51:D:163:GLY:HA3	51:D:209:ASN:ND2	2.23	0.53
55:H:142:ARG:HD3	55:H:149:LYS:HB3	1.91	0.53
71:X:11:LEU:HD12	71:X:74:VAL:HB	1.91	0.53
50:s1:169:SER:O	50:s1:173:THR:OG1	2.27	0.53
53:s4:18:TRP:HH2	53:s4:31:PRO:HD3	1.74	0.53
62:c3:26:PHE:CE2	62:c3:28:LEU:HB2	2.44	0.53
72:d3:78:LYS:HG3	72:d3:79:ASN:H	1.73	0.53
1:1:634:C:H5'	35:AG:21:ARG:O	2.09	0.53
1:1:1093:A:N3	1:1:1096:U:N3	2.56	0.53
1:1:2403:G:H5'	1:1:2872:A:C2	2.44	0.53
1:1:2910:A:O2'	1:1:3130:A:N1	2.38	0.53
18:x:50:GLN:OE1	18:x:56:ARG:HD3	2.09	0.53
21:0:83:SER:OG	21:0:88:HIS:NE2	2.38	0.53
25:6:610:G:H21	72:d3:19:ARG:NH1	2.06	0.53
25:6:835:U:H2'	25:6:836:U:C6	2.44	0.53
37:AI:106:LYS:HA	37:AI:109:ILE:HD12	1.89	0.53
1:AR:290:G:H4'	16:CP:69:GLY:O	2.08	0.53
1:AR:968:G:H2'	1:AR:969:C:C6	2.43	0.53
1:AR:2163:C:H4'	4:CD:8:GLN:HA	1.90	0.53
1:AR:2656:A:OP2	44:DQ:97:LYS:HB3	2.09	0.53
1:AR:3006:A:H2'	1:AR:3007:U:O4'	2.09	0.53
1:AR:3268:A:H5''	8:CH:46:ARG:NH2	2.24	0.53
15:CO:14:LEU:H	15:CO:19:ARG:NH1	2.06	0.53
25:A:264:G:O6	84:A:1912:OHX:N4	2.42	0.53
25:A:478:A:O2'	58:K:124:HIS:ND1	2.37	0.53
25:A:898:A:H4'	63:P:46:MET:HE3	1.90	0.53
25:A:1514:U:O2'	52:E:5:ILE:O	2.22	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1745:G:O6	84:A:1964:OHX:N2	2.42	0.53
57:J:12:SER:OG	57:J:16:ALA:HB3	2.09	0.53
67:T:139:LYS:O	67:T:143:ARG:NH1	2.42	0.53
68:U:27:LYS:HB3	68:U:111:ILE:HD11	1.89	0.53
73:Z:23:PHE:HE1	73:Z:75:VAL:HG12	1.74	0.53
49:s0:103:THR:O	49:s0:106:SER:OG	2.25	0.53
1:1:1686:U:O2	1:1:1688:U:H1'	2.09	0.53
1:1:2371:G:O6	84:1:3408:OHX:N4	2.42	0.53
1:1:2373:A:N3	1:1:2824:G:O2'	2.34	0.53
1:1:2977:G:OP1	84:1:3654:OHX:N5	2.41	0.53
6:l:140:HIS:HA	6:l:177:ASP:OD1	2.09	0.53
9:o:160:ARG:HB2	9:o:203:TRP:CD2	2.43	0.53
24:l2:74:MET:HE3	24:l2:102:ILE:HB	1.90	0.53
25:6:1020:A:OP1	62:c3:106:ARG:NH1	2.42	0.53
25:6:1600:A:H4'	25:6:1601:G:OP1	2.07	0.53
1:AR:675:C:O2'	1:AR:679:U:OP1	2.24	0.53
1:AR:2185:G:O2'	1:AR:2314:U:OP2	2.27	0.53
1:AR:2588:U:OP1	10:CJ:48:ARG:NH2	2.36	0.53
1:AR:3094:A:H2'	1:AR:3095:U:C6	2.43	0.53
2:AS:3:U:H2'	2:AS:4:U:C6	2.44	0.53
6:CF:72:ALA:O	6:CF:76:ARG:NH1	2.41	0.53
9:CI:153:PHE:CD2	9:CI:160:ARG:HG2	2.44	0.53
10:CJ:41:GLN:HG3	10:CJ:42:PRO:HD2	1.90	0.53
30:DC:121:VAL:O	30:DC:123:VAL:HG23	2.09	0.53
34:DG:100:ILE:O	34:DG:105:ARG:NH1	2.41	0.53
25:A:789:A:OP1	53:F:108:ARG:NH2	2.42	0.53
57:J:21:PHE:O	57:J:22:ARG:HG2	2.08	0.53
69:V:106:ILE:HG23	69:V:107:THR:HG23	1.89	0.53
1:1:61:A:H2'	1:1:62:A:O4'	2.09	0.53
1:1:1786:G:H2'	1:1:1787:A:C8	2.43	0.53
1:1:2713:U:O2'	44:AP:8:ARG:HD2	2.08	0.53
1:1:3215:A:O5'	15:u:121:MET:HE1	2.09	0.53
5:k:146:ARG:O	5:k:150:ARG:N	2.37	0.53
5:k:246:LEU:HD23	5:k:246:LEU:H	1.73	0.53
14:t:91:ARG:NH1	14:t:97:VAL:HB	2.24	0.53
16:v:35:VAL:O	16:v:64:VAL:HA	2.09	0.53
16:v:103:GLU:OE1	16:v:118:SER:OG	2.22	0.53
25:6:1469:A:H4'	25:6:1541:G:H4'	1.89	0.53
1:AR:213:A:H2'	1:AR:214:G:O4'	2.08	0.53
1:AR:850:U:H2'	1:AR:851:C:C6	2.44	0.53
1:AR:939:U:H2'	1:AR:940:G:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1127:G:N2	1:AR:1129:A:H3'	2.23	0.53
1:AR:2999:U:O4	84:AR:3641:OHX:N4	2.42	0.53
2:AS:28:C:H5''	13:CM:137:ARG:HG2	1.90	0.53
17:CQ:116:LYS:HE2	21:CU:165:TYR:HB3	1.91	0.53
21:CU:155:ARG:HD3	21:CU:172:TYR:CG	2.44	0.53
25:A:827:C:H2'	25:A:828:U:H6	1.73	0.53
25:A:1172:G:H21	68:U:88:VAL:CG2	2.22	0.53
25:A:1278:G:OP1	52:E:185:LYS:HE2	2.08	0.53
25:A:1586:A:H1'	25:A:1611:A:H61	1.74	0.53
25:A:1586:A:H1'	25:A:1611:A:N6	2.24	0.53
53:F:15:PRO:HG2	53:F:18:TRP:CE2	2.44	0.53
53:F:100:ARG:NH2	53:F:121:TYR:O	2.42	0.53
63:P:42:VAL:HA	63:P:46:MET:SD	2.49	0.53
81:h:38:ARG:HG2	81:h:67:ILE:HG23	1.91	0.53
49:s0:142:PRO:HG3	70:d1:32:VAL:HG22	1.91	0.53
60:c1:72:THR:HG22	60:c1:124:THR:HA	1.90	0.53
72:d3:42:PRO:HA	72:d3:81:LYS:HD2	1.91	0.53
1:1:994:G:N2	1:1:995:U:O4	2.41	0.53
1:1:1382:G:OP2	6:l:188:ARG:NH1	2.37	0.53
1:1:1488:G:H5''	1:1:1838:G:O6	2.09	0.53
1:1:2869:U:H5''	1:1:2870:C:OP2	2.08	0.53
4:j:112:ILE:HG12	4:j:135:ILE:HG12	1.91	0.53
6:l:23:PRO:HD2	6:l:26:PHE:CD2	2.44	0.53
21:0:138:GLN:HA	21:0:141:LYS:HG3	1.91	0.53
25:6:339:C:P	57:s8:10:LYS:HE2	2.49	0.53
25:6:647:G:H22	25:6:687:G:H1	1.57	0.53
25:6:874:C:OP1	84:6:1911:OHX:N5	2.41	0.53
25:6:1216:C:N3	25:6:1448:G:N2	2.56	0.53
25:6:1280:C:O2'	69:d0:70:THR:HG23	2.08	0.53
25:6:1311:U:O4	84:6:2045:OHX:N6	2.42	0.53
1:AR:2528:G:N7	84:AR:3706:OHX:N3	2.57	0.53
1:AR:3372:A:OP2	84:AR:3735:OHX:N3	2.42	0.53
2:AS:89:G:H4'	21:CU:84:ARG:HD3	1.90	0.53
6:CF:119:ARG:NH1	6:CF:271:LYS:HB3	2.23	0.53
16:CP:13:LYS:O	16:CP:19:LEU:HD22	2.09	0.53
25:A:2:A:N3	51:D:199:GLN:NE2	2.57	0.53
25:A:83:G:OP2	84:A:1944:OHX:N3	2.42	0.53
50:C:26:ARG:NH1	50:C:49:ASN:OD1	2.42	0.53
55:H:84:TYR:CE1	55:H:93:LYS:HB2	2.44	0.53
57:J:147:ALA:C	57:J:149:SER:N	2.65	0.53
54:s5:53:VAL:HG21	54:s5:59:VAL:HG13	1.91	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:s6:164:LYS:HB3	55:s6:167:LYS:O	2.08	0.53
68:c9:9:VAL:HG22	68:c9:140:LEU:HD23	1.90	0.53
73:d4:62:THR:HA	73:d4:69:SER:HA	1.89	0.53
83:e1:132:LEU:HD22	83:e1:141:CYS:HB2	1.91	0.53
1:1:650:C:H2'	1:1:651:G:C8	2.45	0.52
1:1:1307:G:H1'	1:1:1308:A:C8	2.43	0.52
1:1:1813:A:OP1	1:1:1817:G:O2'	2.20	0.52
1:1:2242:A:H5''	4:j:244:GLY:HA3	1.90	0.52
1:1:2703:A:N6	7:m:28:THR:O	2.41	0.52
1:1:3348:G:H1	1:1:3357:U:H3	1.57	0.52
5:k:256:HIS:HA	5:k:257:PRO:C	2.33	0.52
7:m:40:HIS:HB3	7:m:43:LYS:HD2	1.90	0.52
11:q:23:ARG:O	11:q:38:LEU:HB2	2.09	0.52
11:q:103:ILE:HG13	11:q:136:PHE:HE1	1.74	0.52
25:6:357:G:OP2	84:6:1930:OHX:N6	2.42	0.52
25:6:1681:A:H8	55:s6:65:GLN:HG3	1.74	0.52
25:6:1708:U:H2'	25:6:1709:C:C6	2.44	0.52
1:AR:906:A:OP1	84:AR:3580:OHX:N1	2.42	0.52
1:AR:1141:C:OP2	84:AR:3613:OHX:N2	2.42	0.52
1:AR:1522-U:H4'	1:AR:1523:U:OP2	2.09	0.52
20:CT:11:ALA:O	20:CT:15:VAL:HG23	2.09	0.52
26:CY:38:SER:O	26:CY:42:GLN:HG3	2.09	0.52
25:A:401:A:O2'	25:A:402:C:H4'	2.08	0.52
25:A:1011:G:OP2	84:A:1968:OHX:N5	2.42	0.52
25:A:1166:A:H5''	54:G:101:GLY:H	1.74	0.52
50:C:193:ILE:O	50:C:197:ILE:HG12	2.09	0.52
56:I:111:LYS:HG3	56:I:112:ARG:H	1.74	0.52
69:V:42:VAL:O	69:V:52:LYS:NZ	2.43	0.52
52:s3:34:TYR:HE1	52:s3:37:VAL:HG13	1.73	0.52
54:s5:20:PHE:CZ	54:s5:22:PRO:HG3	2.43	0.52
61:c2:85:LYS:HG3	61:c2:87:PRO:HD3	1.91	0.52
82:c7:28:PHE:HA	82:c7:55:THR:HG21	1.91	0.52
79:e0:48:THR:HB	79:e0:49:LEU:HD22	1.90	0.52
1:1:1047:A:N3	1:1:2633:U:O2'	2.41	0.52
15:u:125:LYS:HE3	15:u:128:ARG:HH12	1.73	0.52
16:v:65:ARG:HB3	16:v:127:TYR:CD2	2.44	0.52
25:6:200:A:H2'	25:6:201:G:H8	1.74	0.52
25:6:1239:U:O4	84:6:1952:OHX:N5	2.42	0.52
25:6:1655:A:N1	1:AR:2291:A:O2'	2.41	0.52
36:AH:98:GLN:O	36:AH:102:LYS:HD3	2.09	0.52
1:AR:1566:A:H3'	1:AR:1567:U:H5''	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1941:C:OP2	20:CT:74:ARG:HG2	2.09	0.52
1:AR:3165:A:H61	1:AR:3285:C:H42	1.57	0.52
3:AT:126:A:O2'	3:AT:129:C:N4	2.42	0.52
3:AT:139:U:O4	84:AT:212:OHX:N5	2.42	0.52
5:CE:214:MET:HE2	5:CE:350:ALA:HB2	1.90	0.52
7:CG:131:LEU:H	7:CG:131:LEU:HD22	1.74	0.52
13:CM:107:ASP:OD1	13:CM:107:ASP:N	2.40	0.52
25:A:631:G:H2'	25:A:632:U:H6	1.73	0.52
25:A:694:U:H5''	25:A:695:U:H5	1.74	0.52
25:A:1381:U:H4'	69:V:59:PRO:HG3	1.91	0.52
25:A:1680:G:O6	84:A:1987:OHX:N5	2.42	0.52
59:L:77:ARG:HG3	59:L:82:LEU:HD12	1.91	0.52
60:M:64:VAL:HG12	60:M:129:ARG:NH1	2.25	0.52
81:h:264:SER:O	81:h:268:GLN:HA	2.09	0.52
50:s1:119:THR:HB	50:s1:143:THR:HG23	1.91	0.52
50:s1:129:THR:OG1	50:s1:131:ASP:OD1	2.24	0.52
53:s4:21:ASP:OD1	53:s4:24:SER:OG	2.23	0.52
53:s4:247:SER:O	53:s4:251:GLU:N	2.41	0.52
57:s8:57:ALA:HB2	57:s8:177:GLY:HA2	1.90	0.52
58:s9:116:LEU:O	58:s9:118:LEU:HD12	2.09	0.52
1:1:3393:U:H2'	1:1:3394:U:H6	1.75	0.52
5:k:230:THR:HA	5:k:235:THR:CG2	2.40	0.52
9:o:214:TRP:CE2	9:o:219:LYS:HD2	2.44	0.52
14:t:49:ARG:HD2	37:AI:116:TYR:CE1	2.44	0.52
25:6:347:G:OP1	60:c1:77:SER:OG	2.16	0.52
25:6:856:A:N6	56:s7:96:ARG:HB3	2.23	0.52
1:AR:2620:G:O6	84:AR:3473:OHX:N1	2.42	0.52
12:CL:150:GLU:O	12:CL:154:ARG:N	2.39	0.52
21:CU:81:TYR:HE1	21:CU:90:MET:HE3	1.75	0.52
25:A:800:U:H2'	25:A:801:G:C8	2.43	0.52
25:A:968:U:H5''	25:A:1033:C:O2'	2.10	0.52
50:C:88:VAL:HG13	50:C:97:LEU:O	2.10	0.52
52:E:74:GLN:HG3	52:E:79:TYR:HB2	1.92	0.52
65:R:27:GLY:HA2	65:R:63:ILE:O	2.10	0.52
72:Y:24:TRP:HE3	72:Y:30:LYS:HD2	1.74	0.52
49:s0:169:SER:O	49:s0:173:ILE:HG12	2.09	0.52
51:s2:140:ARG:NH1	70:d1:10:GLU:OE1	2.42	0.52
54:s5:158:GLN:HG2	77:d8:66:LEU:HD11	1.90	0.52
1:1:764:U:O4	84:1:3500:OHX:N2	2.42	0.52
1:1:1007:U:O4	84:1:3663:OHX:N1	2.43	0.52
1:1:3006:A:H2'	1:1:3007:U:O4'	2.09	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:3:7:G:OP1	7:m:33:ARG:NH1	2.41	0.52
2:3:13:A:O2'	7:m:24:ARG:NH1	2.43	0.52
4:j:5:ILE:HG21	4:j:210:PRO:HD3	1.91	0.52
5:k:284:ARG:HB2	5:k:323:MET:HE2	1.92	0.52
6:l:89:ALA:O	6:l:91:GLY:N	2.43	0.52
7:m:40:HIS:NE2	7:m:42:ALA:HB3	2.24	0.52
13:s:108:GLU:HG2	13:s:122:ILE:HG21	1.91	0.52
25:6:359:A:H1'	72:d3:38:PHE:CE1	2.44	0.52
25:6:866:G:H5''	62:c3:2:GLY:O	2.09	0.52
25:6:1041:G:H2'	25:6:1042:G:C8	2.44	0.52
1:AR:552:G:H2'	1:AR:553:U:H6	1.74	0.52
1:AR:1523:U:OP2	1:AR:1604:G:O2'	2.27	0.52
1:AR:1919:G:N7	84:AR:3574:OHX:N4	2.58	0.52
1:AR:2921:U:H2'	1:AR:2923:U:OP2	2.09	0.52
1:AR:3053:G:N7	84:AR:3671:OHX:N3	2.58	0.52
5:CE:35:ASP:OD2	5:CE:37:ARG:NH1	2.41	0.52
13:CM:82:ARG:HG2	13:CM:112:LEU:HB2	1.91	0.52
20:CT:134:HIS:CE1	20:CT:136:ARG:HB3	2.44	0.52
34:DG:119:VAL:O	34:DG:122:PRO:HD3	2.09	0.52
25:A:166:C:H4'	55:H:131:LYS:HE3	1.92	0.52
25:A:1067:C:H5''	50:C:150:VAL:HG23	1.90	0.52
25:A:1390:U:OP1	66:S:5:ARG:HD2	2.09	0.52
25:A:1438:G:H2'	25:A:1439:C:O4'	2.09	0.52
53:s4:175:PHE:HE1	53:s4:198:LYS:HD3	1.75	0.52
1:1:1114:U:OP2	84:1:3502:OHX:N4	2.42	0.52
1:1:1581:C:H2'	1:1:1582:C:H5'	1.92	0.52
1:1:2341:A:OP2	5:k:247:ARG:NH2	2.42	0.52
3:4:62:C:H4'	3:4:63:G:O5'	2.09	0.52
12:r:3:ARG:CZ	12:r:63:GLU:HG3	2.39	0.52
18:x:10:ASN:HD22	18:x:13:LYS:NZ	2.07	0.52
25:6:1258:U:H4'	59:c0:2:LEU:HD13	1.90	0.52
25:6:1383:G:OP1	69:d0:87:HIS:ND1	2.43	0.52
28:9:102:SER:OG	28:9:103:LYS:NZ	2.24	0.52
36:AH:58:ARG:HG3	36:AH:59:PRO:HD2	1.91	0.52
1:AR:1822:C:H2'	1:AR:1823:A:H8	1.74	0.52
1:AR:2694:A:C6	1:AR:2695:A:C6	2.98	0.52
1:AR:2970:C:HO2'	1:AR:2971:A:H2	1.56	0.52
7:CG:51:LEU:N	7:CG:145:PHE:O	2.29	0.52
15:CO:23:ILE:HA	15:CO:63:VAL:HG23	1.92	0.52
27:CZ:86:VAL:HG11	27:CZ:95:ILE:HG12	1.91	0.52
25:A:523:G:O6	84:A:1931:OHX:N4	2.43	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:639:U:OP1	56:I:117:THR:OG1	2.22	0.52
25:A:1178:G:H2'	25:A:1179:G:O4'	2.10	0.52
25:A:1277:G:H2'	25:A:1278:G:O4'	2.10	0.52
49:B:169:SER:O	49:B:173:ILE:HG12	2.07	0.52
51:D:52:THR:HB	51:D:54:GLU:HG2	1.92	0.52
65:R:113:ASP:OD1	65:R:116:LEU:N	2.42	0.52
80:g:119:ARG:HH11	80:g:139:LEU:HD21	1.75	0.52
81:h:52:GLN:H	81:h:52:GLN:CD	2.17	0.52
53:s4:118:GLU:OE1	53:s4:237:SER:OG	2.20	0.52
1:1:318:A:OP1	84:1:3448:OHX:N2	2.43	0.52
1:1:995:U:C2	1:1:2637:A:C8	2.98	0.52
1:1:2993:G:H2'	1:1:3142:A:H61	1.74	0.52
84:1:3415:OHX:N6	4:j:215:ASN:OD1	2.42	0.52
19:y:19:PRO:HB3	19:y:53:PHE:HA	1.91	0.52
25:6:1350:U:H2'	25:6:1351:G:C8	2.44	0.52
25:6:1389:C:O2'	82:c7:52:GLY:HA3	2.10	0.52
25:6:1616:G:N7	84:6:1999:OHX:N5	2.57	0.52
25:6:1649:G:O6	84:6:1965:OHX:N2	2.42	0.52
25:6:1699:G:N2	25:6:1701:A:H5''	2.24	0.52
30:AB:90:TYR:CD1	30:AB:100:PRO:HG3	2.44	0.52
30:AB:94:ALA:CB	30:AB:121:VAL:HG13	2.39	0.52
1:AR:1596:C:H2'	1:AR:1597:C:C6	2.43	0.52
1:AR:1599:G:OP1	84:DI:201:OHX:N4	2.43	0.52
1:AR:2102:U:H2'	1:AR:2103:U:H6	1.74	0.52
1:AR:2158:A:OP2	4:CD:156:LYS:NZ	2.39	0.52
1:AR:3170:A:N6	1:AR:3171:U:O4	2.42	0.52
5:CE:332:ARG:HG2	5:CE:333:LYS:HG3	1.90	0.52
41:DN:44:TRP:CE2	41:DN:45:ARG:HG2	2.44	0.52
42:DO:103:LEU:HD13	42:DO:110:CYS:HA	1.91	0.52
25:A:939:A:H2'	25:A:940:A:C8	2.44	0.52
25:A:1140:G:H2'	25:A:1141:G:H8	1.75	0.52
25:A:1367:G:O6	84:A:1986:OHX:N3	2.43	0.52
53:F:141:THR:OG1	53:F:145:ARG:HB2	2.09	0.52
55:H:102:VAL:HG13	55:H:106:LEU:HD12	1.92	0.52
56:I:31:SER:HA	56:I:35:LYS:HB3	1.92	0.52
57:J:76:THR:HB	57:J:105:ASP:HB2	1.92	0.52
61:N:87:PRO:HA	61:N:140:PHE:HE2	1.75	0.52
81:h:123:ILE:HG21	81:h:169:ILE:HD13	1.91	0.52
52:s3:65:ARG:HH12	52:s3:69:LEU:HD13	1.75	0.52
56:s7:96:ARG:NH2	56:s7:128:ASP:OD2	2.39	0.52
62:c3:115:LEU:O	62:c3:119:GLU:HG3	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:36:C:H2'	1:1:37:U:H5'	1.92	0.52
1:1:595:G:C8	1:1:609:G:C6	2.98	0.52
1:1:1387:G:OP1	84:1:3690:OHX:N3	2.42	0.52
1:1:1709:C:H2'	1:1:1710:C:C6	2.45	0.52
1:1:2146:C:OP1	4:j:200:ARG:NH1	2.43	0.52
1:1:3180:A:C6	17:w:114:LYS:HG2	2.44	0.52
5:k:77:THR:HG23	5:k:326:GLY:O	2.10	0.52
5:k:188:ILE:O	5:k:192:VAL:HG12	2.09	0.52
13:s:96:PHE:CD2	13:s:102:PHE:HB3	2.44	0.52
21:0:9:VAL:HG22	21:0:61:ILE:HG12	1.91	0.52
25:6:151:G:H2'	25:6:152:U:H6	1.75	0.52
25:6:767:U:H5	58:s9:143:ILE:HD13	1.74	0.52
25:6:1285:U:O2'	25:6:1286:U:OP1	2.28	0.52
37:AI:28:LEU:HD23	37:AI:47:VAL:HG22	1.91	0.52
1:AR:1497:C:H2'	1:AR:1498:A:C8	2.45	0.52
1:AR:3043:C:OP2	24:CX:48:ARG:NH2	2.41	0.52
1:AR:3147:G:H4'	5:CE:102:LEU:O	2.09	0.52
1:AR:3157:U:H4'	1:AR:3158:G:H5'	1.91	0.52
1:AR:3344:A:H2	1:AR:3361:G:H21	1.57	0.52
3:AT:58:G:OP1	3:AT:98:U:N3	2.24	0.52
10:CJ:238:LEU:HB2	10:CJ:243:GLN:HG2	1.90	0.52
29:DB:51:LEU:HB2	29:DB:65:ARG:HB3	1.91	0.52
25:A:413:U:H2'	25:A:414:C:C6	2.44	0.52
25:A:516:G:OP2	84:A:1948:OHX:N6	2.42	0.52
25:A:919:A:H5'	63:P:18:ARG:HH12	1.75	0.52
25:A:1649:G:H2'	25:A:1650:U:C6	2.45	0.52
52:E:18:TYR:HE1	52:E:37:VAL:HG23	1.74	0.52
54:G:222:LYS:HE3	54:G:225:ARG:HH12	1.75	0.52
61:N:24:ILE:O	61:N:25:GLU:HG2	2.09	0.52
58:s9:118:LEU:HD23	58:s9:158:PHE:CZ	2.44	0.52
83:e1:121:CYS:HB2	83:e1:130:VAL:HG11	1.91	0.52
1:1:86:G:O2'	1:1:98:G:O6	2.25	0.52
1:1:272:G:H1'	38:AJ:82:ARG:HH12	1.75	0.52
1:1:2162:U:OP1	4:j:234:LYS:NZ	2.36	0.52
1:1:2523:A:OP1	27:8:31:THR:OG1	2.24	0.52
1:1:2730:G:H4'	19:y:184:PHE:CD1	2.45	0.52
1:1:3151:U:H4'	1:1:3294:A:H1'	1.90	0.52
3:4:49:G:O3'	37:AI:35:LYS:NZ	2.41	0.52
5:k:305:ILE:HG12	5:k:321:PHE:CE2	2.44	0.52
7:m:289:LYS:HD3	12:r:206:LEU:HD23	1.92	0.52
12:r:86:HIS:HB3	12:r:139:ARG:HG2	1.90	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:t:165:SER:C	14:t:167:PHE:H	2.14	0.52
21:0:79:VAL:HG21	21:0:106:LEU:HD21	1.92	0.52
25:6:754:A:N6	25:6:793:A:N7	2.45	0.52
25:6:973:A:H5'	1:AR:848:A:C2	2.45	0.52
32:AD:40:LYS:HB3	32:AD:101:LEU:HD11	1.91	0.52
1:AR:12:A:OP2	84:AT:220:OHX:N4	2.43	0.52
1:AR:2228:A:H2'	1:AR:2229:A:C8	2.45	0.52
1:AR:2630:C:C4	22:CV:4:SER:HB2	2.45	0.52
1:AR:3268:A:H5''	8:CH:46:ARG:HH22	1.74	0.52
1:AR:3304:U:O2'	5:CE:334:ARG:NH2	2.36	0.52
7:CG:234:ASP:OD1	7:CG:234:ASP:N	2.41	0.52
10:CJ:135:GLY:O	10:CJ:139:VAL:HG23	2.09	0.52
13:CM:150:ASN:C	13:CM:152:HIS:H	2.17	0.52
14:CN:64:LYS:HG3	30:DC:69:TRP:CD2	2.45	0.52
15:CO:55:ARG:HH11	21:CU:70:THR:HB	1.75	0.52
32:DE:9:SER:HB3	32:DE:12:GLN:HB3	1.92	0.52
48:sM:136:UNK:O	48:sM:138:UNK:N	2.43	0.52
68:U:34:VAL:HG23	68:U:53:TRP:CZ2	2.45	0.52
49:s0:74:VAL:HG22	49:s0:96:THR:HG23	1.92	0.52
58:s9:25:ASP:O	58:s9:29:LYS:HG3	2.10	0.52
62:c3:63:ALA:O	62:c3:67:THR:OG1	2.25	0.52
67:c8:35:ILE:HB	67:c8:38:VAL:HG22	1.90	0.52
75:d6:10:ARG:HB2	75:d6:34:LYS:HA	1.91	0.52
1:l:1393:A:N3	1:l:1419:A:O2'	2.41	0.52
5:k:284:ARG:NH1	5:k:356:LEU:HD12	2.25	0.52
6:l:30:ILE:H	19:y:25:TYR:HH	1.58	0.52
13:s:54:VAL:HG11	13:s:57:PHE:CG	2.45	0.52
15:u:60:LEU:HD13	21:0:152:LEU:HD11	1.91	0.52
17:w:28:LEU:HD21	17:w:88:VAL:HG13	1.91	0.52
25:6:139:C:H4'	25:6:140:A:O5'	2.10	0.52
25:6:584:C:OP2	84:6:1904:OHX:N3	2.43	0.52
1:AR:786:A:H4'	1:AR:787:G:H5'	1.92	0.52
1:AR:1317:A:O2'	1:AR:1318:A:H3'	2.10	0.52
1:AR:2988:C:P	17:CQ:68:ARG:NH1	2.83	0.52
12:CL:218:ALA:HB3	84:CL:301:OHX:N3	2.25	0.52
13:CM:95:ASN:O	13:CM:102:PHE:HA	2.09	0.52
22:CV:127:GLN:NE2	22:CV:127:GLN:O	2.43	0.52
25:A:190:C:O2'	25:A:191:C:H5'	2.10	0.52
25:A:861:U:O2'	71:X:56:HIS:O	2.25	0.52
51:D:116:LYS:HG2	51:D:127:ALA:HB3	1.91	0.52
55:H:52:ILE:HD13	55:H:102:VAL:HG21	1.92	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N:66:VAL:HG21	61:N:71:ILE:HD12	1.92	0.52
66:S:87:GLU:O	66:S:88:VAL:HG12	2.10	0.52
71:X:104:LEU:HA	71:X:126:LEU:H	1.74	0.52
53:s4:184:THR:C	53:s4:189:LEU:HD13	2.35	0.52
57:s8:77:ARG:HB2	57:s8:105:ASP:HB2	1.92	0.52
61:c2:60:VAL:HG22	61:c2:122:VAL:HG22	1.91	0.52
67:c8:91:ASP:CG	67:c8:92:ILE:H	2.18	0.52
68:c9:45:MET:HE3	68:c9:46:PRO:HD2	1.91	0.52
81:sR:32:LEU:HA	81:sR:45:TRP:O	2.09	0.52
1:1:33:G:O2'	1:1:51:A:N6	2.42	0.52
1:1:1313:G:O6	84:1:3629:OHX:N4	2.43	0.52
1:1:1472:U:H2'	1:1:1473:G:C8	2.45	0.52
1:1:2394:G:H5'	5:k:252:ILE:HG22	1.91	0.52
1:1:2573:G:O6	84:1:3536:OHX:N3	2.43	0.52
2:3:112:G:OP2	84:3:206:OHX:N5	2.43	0.52
5:k:41:VAL:HA	5:k:185:GLY:CA	2.31	0.52
5:k:280:HIS:HB3	5:k:324:VAL:HG13	1.90	0.52
12:r:140:THR:HG21	12:r:144:ASN:HD22	1.75	0.52
13:s:92:ARG:NH2	13:s:94:ARG:HH21	2.08	0.52
15:u:38:ILE:O	21:0:95:ARG:NH2	2.30	0.52
16:v:120:TRP:HZ2	16:v:123:GLN:HG2	1.75	0.52
19:y:158:HIS:H	19:y:186:VAL:CG1	2.23	0.52
25:6:71:A:H2'	25:6:72:A:O4'	2.10	0.52
25:6:1681:A:C8	55:s6:65:GLN:HG3	2.45	0.52
27:8:34:LEU:HD22	27:8:35:PRO:HD2	1.92	0.52
1:AR:2288:G:OP1	84:AR:3460:OHX:N4	2.43	0.52
1:AR:2914:G:OP2	84:AR:3563:OHX:N5	2.43	0.52
1:AR:3120:C:H3'	42:DO:111:ARG:HH21	1.75	0.52
13:CM:108:GLU:HA	13:CM:122:ILE:HG23	1.91	0.52
17:CQ:35:VAL:HB	17:CQ:104:VAL:HG13	1.92	0.52
21:CU:81:TYR:CE1	21:CU:90:MET:HE3	2.45	0.52
27:CZ:53:HIS:HB3	27:CZ:56:ARG:NH2	2.25	0.52
29:DB:57:HIS:HB3	29:DB:62:VAL:HG22	1.91	0.52
45:DR:84:ARG:O	45:DR:88:GLU:HG2	2.10	0.52
25:A:1018:U:H2'	25:A:1019:A:C8	2.44	0.52
25:A:1199:G:C5	78:e:40:ARG:HD3	2.45	0.52
25:A:1619:C:H2'	25:A:1620:C:H6	1.74	0.52
49:B:26:ALA:H	49:B:149:LEU:HD12	1.74	0.52
49:B:200:ASP:HA	49:B:203:PHE:CE2	2.45	0.52
50:C:35:PRO:HG3	50:C:98:THR:O	2.10	0.52
51:D:103:VAL:HG12	51:D:190:LEU:HD12	1.91	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:E:32:GLU:HG3	52:E:57:ASP:HB2	1.92	0.52
54:G:166:ARG:HD3	77:d:45:LYS:HG3	1.92	0.52
60:M:59:PRO:HD2	60:M:112:SER:HB2	1.91	0.52
66:S:57:LEU:O	66:S:61:ILE:HG13	2.10	0.52
67:T:97:ASP:OD1	67:T:97:ASP:N	2.42	0.52
49:s0:163:ASN:HB3	49:s0:169:SER:OG	2.10	0.52
53:s4:104:ASP:HB3	53:s4:106:LYS:H	1.75	0.52
72:d3:24:TRP:CZ3	72:d3:30:LYS:HG3	2.45	0.52
81:sR:149:ASP:HB2	81:sR:175:ASP:HB3	1.92	0.52
1:l:1039:U:H2'	1:l:1040:A:C8	2.46	0.51
6:l:283:THR:HG22	6:l:285:ASP:N	2.16	0.51
25:6:291:G:H2'	25:6:292:U:C6	2.45	0.51
1:AR:568:G:O6	84:AR:3440:OHX:N2	2.42	0.51
1:AR:1305:U:C2	5:CE:257:PRO:HG3	2.45	0.51
6:CF:269:SER:C	6:CF:271:LYS:H	2.18	0.51
7:CG:5:LYS:HE2	7:CG:5:LYS:HA	1.91	0.51
25:A:1797:A:N6	75:b:84:VAL:O	2.36	0.51
53:F:73:ASP:HB3	53:F:164:LEU:HD22	1.91	0.51
56:I:14:THR:H	56:I:17:GLU:HB2	1.75	0.51
58:K:78:ARG:NH2	58:K:82:ARG:HD2	2.26	0.51
62:O:20:ARG:O	62:O:65:VAL:HG13	2.09	0.51
54:s5:25:LEU:H	54:s5:25:LEU:HD22	1.75	0.51
57:s8:5:ARG:HG3	57:s8:28:GLU:O	2.09	0.51
60:c1:71:LEU:HB3	60:c1:88:ARG:NH1	2.25	0.51
60:c1:101:GLU:CD	72:d3:16:ARG:HH22	2.17	0.51
1:l:2157:G:N2	1:l:2178:A:OP2	2.35	0.51
1:l:2881:C:H2'	1:l:2882:U:C6	2.44	0.51
1:l:2896:A:H4'	42:AN:95:VAL:HG11	1.93	0.51
6:l:89:ALA:C	6:l:91:GLY:H	2.17	0.51
6:l:338:LYS:N	6:l:338:LYS:HD2	2.23	0.51
13:s:90:GLN:HB3	13:s:172:LEU:HD11	1.91	0.51
16:v:119:TYR:OH	16:v:131:GLU:OE1	2.24	0.51
18:x:27:LYS:HD3	18:x:63:PHE:HB3	1.92	0.51
25:6:1068:C:H2'	25:6:1069:A:H8	1.74	0.51
33:AE:19:ARG:HD3	33:AE:35:GLU:HG2	1.92	0.51
40:AL:54:LEU:HD21	40:AL:56:ILE:HD11	1.93	0.51
1:AR:82:C:O3'	16:CP:204:LYS:NZ	2.42	0.51
1:AR:634:C:O2'	34:DG:47:ARG:HD2	2.10	0.51
1:AR:909:G:O2'	84:AR:3580:OHX:N2	2.44	0.51
1:AR:1214:U:H2'	1:AR:1215:U:C6	2.45	0.51
84:AR:3509:OHX:N3	44:DQ:48:SER:O	2.44	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AS:9:C:OP1	22:CV:28:SER:OG	2.18	0.51
4:CD:109:GLU:CD	4:CD:109:GLU:H	2.19	0.51
6:CF:205:PRO:HB3	6:CF:247:PHE:CD2	2.45	0.51
30:DC:73:LEU:HB2	30:DC:109:TYR:CD1	2.45	0.51
35:DH:49:ILE:HG12	35:DH:100:ILE:HG13	1.91	0.51
36:DI:20:ILE:HD11	36:DI:34:HIS:CD2	2.45	0.51
37:DJ:95:PHE:O	37:DJ:99:GLN:HG2	2.10	0.51
47:p0:105:VAL:HG23	47:p0:184:GLY:N	2.25	0.51
25:A:705:U:H2'	25:A:706:A:C8	2.45	0.51
25:A:855:A:C2	25:A:857:U:H1'	2.45	0.51
49:B:84:ARG:HB3	49:B:203:PHE:O	2.10	0.51
58:K:109:LEU:CB	58:K:146:PHE:HB3	2.41	0.51
49:s0:79:ARG:NH1	49:s0:164:ASN:O	2.41	0.51
51:s2:59:HIS:NE2	51:s2:236:PRO:HB2	2.24	0.51
52:s3:170:THR:HG22	52:s3:187:LYS:HA	1.92	0.51
53:s4:77:ARG:HD2	53:s4:82:TYR:CD2	2.45	0.51
58:s9:87:SER:HB3	58:s9:90:LYS:HD2	1.92	0.51
75:d6:20:PRO:HA	75:d6:31:PRO:HA	1.91	0.51
1:1:371:G:O6	84:1:3610:OHX:N1	2.44	0.51
1:1:1339:C:H2'	1:1:1340:G:O4'	2.10	0.51
1:1:2808:A:H61	1:1:2954:U:H5'	1.76	0.51
1:1:3267:A:H2'	8:n:69:PHE:CE2	2.44	0.51
1:1:3312:U:H5''	5:k:25:ILE:HD12	1.91	0.51
17:w:96:LYS:O	17:w:100:GLU:HG3	2.09	0.51
23:5:50:LEU:HB3	23:5:54:VAL:HG23	1.91	0.51
24:l2:48:ARG:HG3	24:l2:48:ARG:NH1	2.24	0.51
25:6:255:U:H2'	25:6:256:A:H8	1.75	0.51
25:6:959:U:H5''	62:c3:15:ALA:O	2.10	0.51
31:AC:47:LEU:HA	31:AC:50:THR:HG22	1.91	0.51
33:AE:44:MET:HB2	33:AE:46:THR:HG22	1.93	0.51
1:AR:947:G:H5''	34:DG:55:ILE:HB	1.92	0.51
1:AR:2373:A:N7	1:AR:2867:C:H1'	2.26	0.51
1:AR:3009:G:N2	5:CE:15:GLY:O	2.37	0.51
20:CT:21:LYS:HE3	20:CT:55:VAL:HA	1.92	0.51
30:DC:75:LEU:HB3	30:DC:118:ILE:HG23	1.91	0.51
37:DJ:119:LYS:HE2	37:DJ:119:LYS:HA	1.92	0.51
38:DK:57:LEU:O	38:DK:61:ILE:HG13	2.10	0.51
25:A:115:G:OP1	60:M:67:ARG:NH1	2.42	0.51
25:A:1238:A:OP2	84:A:1925:OHX:N2	2.42	0.51
25:A:1796:C:H1'	75:b:7:SER:HB3	1.92	0.51
49:B:157:ASP:OD2	70:W:65:SER:OG	2.28	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
55:H:52:ILE:HG23	55:H:109:LEU:HD21	1.93	0.51
60:M:93:TYR:CE2	60:M:95:PRO:HA	2.45	0.51
68:U:65:ILE:HG23	68:U:71:VAL:HG13	1.92	0.51
69:V:33:GLN:OE1	69:V:33:GLN:N	2.40	0.51
72:Y:14:LYS:O	72:Y:18:HIS:HB2	2.11	0.51
78:e:11:PRO:HB3	78:e:13:ARG:NH2	2.26	0.51
55:s6:98:ARG:NH2	55:s6:99:GLY:O	2.44	0.51
55:s6:135:PRO:HB2	55:s6:141:ILE:HG12	1.92	0.51
63:c4:77:THR:OG1	63:c4:78:ALA:N	2.40	0.51
70:d1:74:GLN:OE1	70:d1:82:VAL:N	2.35	0.51
1:l:687:U:OP2	14:t:36:ARG:NH2	2.43	0.51
1:l:1163:A:H2'	1:l:1164:G:C8	2.45	0.51
1:l:1472:U:H2'	1:l:1473:G:H8	1.75	0.51
1:l:1472:U:H5'	20:z:4:LEU:HB2	1.92	0.51
1:l:2801:A:O2'	1:l:2802:A:H2'	2.09	0.51
1:l:3136:G:OP2	84:l:3637:OHX:N6	2.43	0.51
5:k:383:LEU:O	5:k:386:ASP:HB2	2.10	0.51
25:6:149:C:H2'	25:6:150:U:H6	1.75	0.51
25:6:761:G:O6	84:6:1939:OHX:N1	2.43	0.51
25:6:1160:A:H2'	25:6:1161:C:H6	1.76	0.51
25:6:1364:G:N2	68:c9:3:GLY:HA3	2.26	0.51
1:AR:90:C:OP1	30:DC:59:ARG:NH1	2.43	0.51
1:AR:158:G:N2	1:AR:264:G:H1'	2.26	0.51
1:AR:1752:A:OP2	84:AR:3582:OHX:N6	2.42	0.51
6:CF:327:LEU:HA	9:CI:166:ASN:ND2	2.26	0.51
7:CG:295:GLY:HA2	12:CL:218:ALA:HB2	1.92	0.51
11:CK:49:ASN:HD21	11:CK:51:GLN:HB2	1.76	0.51
15:CO:113:THR:HG23	15:CO:116:GLU:H	1.75	0.51
21:CU:132:THR:C	21:CU:134:ASP:H	2.17	0.51
29:DB:70:PRO:HG3	29:DB:115:LYS:HB2	1.92	0.51
25:A:844:A:H2'	25:A:845:G:C8	2.43	0.51
25:A:1424:A:C1'	51:D:92:ALA:HB1	2.39	0.51
51:D:225:LEU:HD22	51:D:230:TRP:CD1	2.45	0.51
57:s8:100:ALA:HB3	57:s8:169:ILE:HG13	1.92	0.51
78:d9:21:CYS:HB2	78:d9:39:CYS:HB3	1.92	0.51
1:l:2993:G:H2'	1:l:3142:A:N6	2.25	0.51
1:l:3343:G:H2'	1:l:3361:G:N2	2.25	0.51
11:q:163:GLN:O	11:q:166:ARG:HD3	2.11	0.51
17:w:3:VAL:HG13	17:w:4:GLU:HG3	1.91	0.51
17:w:84:LEU:HD13	17:w:102:LEU:HD21	1.92	0.51
36:AH:41:ARG:O	36:AH:43:LYS:NZ	2.35	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
46:i:96:ARG:HG2	25:A:1274:C:C5	2.46	0.51
46:i:156:ASN:HA	46:i:159:ALA:HB3	1.93	0.51
1:AR:72:C:C2	1:AR:74:G:H1'	2.46	0.51
1:AR:201:A:H2'	1:AR:202:G:C8	2.45	0.51
1:AR:495:G:H2'	1:AR:496:C:O4'	2.09	0.51
1:AR:2952:G:H2'	1:AR:2953:U:C6	2.46	0.51
4:CD:52:SER:HB3	4:CD:191:LEU:HD22	1.93	0.51
5:CE:166:ILE:O	5:CE:169:THR:HG22	2.10	0.51
12:CL:42:THR:HG23	12:CL:45:GLU:HB2	1.92	0.51
31:DD:23:LYS:HD2	31:DD:24:PRO:HD2	1.93	0.51
50:C:149:GLN:HE22	50:C:154:SER:HB2	1.76	0.51
61:N:87:PRO:HA	61:N:140:PHE:CE2	2.45	0.51
62:O:86:GLU:HA	62:O:89:TYR:HB3	1.92	0.51
62:O:138:ASN:OD1	62:O:138:ASN:N	2.43	0.51
63:P:29:HIS:HB3	63:P:41:ARG:HG3	1.92	0.51
72:Y:63:GLN:HA	72:Y:65:ASN:H	1.74	0.51
74:a:89:ILE:HB	74:a:101:TYR:HB3	1.92	0.51
78:e:25:SER:O	84:e:101:OHX:N4	2.43	0.51
69:d0:118:VAL:HG13	69:d0:119:ALA:H	1.76	0.51
73:d4:51:GLU:O	73:d4:53:ASP:N	2.43	0.51
1:1:561:C:OP1	15:u:77:ARG:HG3	2.10	0.51
1:1:1440:G:H2'	1:1:1441:G:H8	1.75	0.51
1:1:2259:A:OP2	84:1:3471:OHX:N2	2.44	0.51
1:1:2442:G:H2'	1:1:2443:A:H5''	1.92	0.51
1:1:2619:G:N7	84:1:3461:OHX:N3	2.58	0.51
4:j:132:ASN:HD22	4:j:151:PRO:HB3	1.75	0.51
17:w:27:LEU:HD22	17:w:101:ARG:HB2	1.93	0.51
21:0:59:VAL:HG13	22:2:141:VAL:HG11	1.93	0.51
25:6:206:A:H1'	25:6:262:U:C2	2.45	0.51
25:6:518:A:O2'	25:6:519:C:H5''	2.11	0.51
25:6:609:U:N3	72:d3:26:GLU:HG3	2.25	0.51
25:6:878:G:N7	84:6:1969:OHX:N1	2.58	0.51
25:6:894:U:O2'	63:c4:36:LYS:NZ	2.41	0.51
25:6:1158:C:OP2	84:6:1999:OHX:N1	2.44	0.51
25:6:1263:G:H2'	25:6:1264:G:O4'	2.09	0.51
25:6:1515:A:O2'	25:6:1518:C:N4	2.44	0.51
29:AA:46:ILE:HD11	29:AA:49:TYR:HA	1.92	0.51
1:AR:1313:G:N3	1:AR:1318:A:H2	2.08	0.51
1:AR:2724:U:H4'	22:CV:54:HIS:CD2	2.45	0.51
3:AT:84:C:O3'	28:DA:113:LYS:HE2	2.10	0.51
7:CG:163:LEU:HD12	7:CG:180:PHE:CZ	2.46	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:67:A:N6	25:A:83:G:O2'	2.44	0.51
25:A:1479:A:OP1	68:U:57:ARG:NH1	2.44	0.51
25:A:1650:U:H2'	25:A:1651:A:C8	2.46	0.51
62:c3:34:ILE:O	62:c3:38:VAL:HG23	2.10	0.51
64:c5:18:ARG:HB3	67:c8:95:GLY:HA2	1.92	0.51
75:d6:87:ARG:HB3	75:d6:91:ASP:HB3	1.92	0.51
1:1:85:A:O2'	84:1:3674:OHX:N6	2.43	0.51
1:1:550:A:N6	1:1:551:A:H62	2.09	0.51
1:1:900:G:H1'	1:1:1589:A:H62	1.74	0.51
1:1:1114:U:H5''	30:AB:22:ILE:HG13	1.93	0.51
1:1:1767:C:H2'	1:1:1768:U:C6	2.46	0.51
1:1:2376:G:H2'	1:1:2377:G:C8	2.46	0.51
1:1:3060:C:OP1	84:1:3577:OHX:N4	2.44	0.51
19:y:65:SER:OG	19:y:90:ASP:OD2	2.26	0.51
19:y:176:ARG:NH1	30:AB:46:ASP:OD2	2.43	0.51
25:6:1081:A:O2'	25:6:1082:C:O5'	2.24	0.51
28:9:112:ASP:HB2	28:9:115:ARG:H	1.76	0.51
37:AI:78:LYS:HG2	37:AI:81:ARG:HH11	1.75	0.51
1:AR:216:G:OP1	28:DA:16:ARG:NH1	2.44	0.51
1:AR:773:G:O6	84:AR:3439:OHX:N5	2.44	0.51
1:AR:1307:G:H1'	1:AR:1308:A:C8	2.45	0.51
1:AR:1783:U:H2'	1:AR:1784:G:C8	2.46	0.51
1:AR:1916:U:O3'	20:CT:85:ARG:NH2	2.43	0.51
1:AR:2268:U:H3'	1:AR:2269:U:C5'	2.39	0.51
1:AR:2278:C:H2'	1:AR:2279:A:H5''	1.92	0.51
12:CL:60:LEU:HD11	12:CL:135:ILE:HD13	1.93	0.51
28:DA:100:HIS:CD2	28:DA:101:PRO:HD2	2.45	0.51
25:A:423:G:N7	84:A:1985:OHX:N3	2.59	0.51
25:A:711:U:H1'	25:A:712:G:C8	2.46	0.51
25:A:740:A:H2'	25:A:741:C:H5''	1.93	0.51
25:A:1014:G:OP1	84:A:1902:OHX:N5	2.44	0.51
50:C:70:LEU:O	50:C:74:GLN:N	2.28	0.51
52:E:176:LEU:H	52:E:176:LEU:HD12	1.75	0.51
54:G:99:MET:O	54:G:103:ASN:HB2	2.10	0.51
57:J:106:ALA:HB2	57:J:165:LEU:HG	1.93	0.51
66:S:10:LYS:HG2	66:S:53:TYR:CE2	2.46	0.51
71:X:27:ILE:HD11	71:X:61:ILE:HD12	1.92	0.51
52:s3:12:VAL:HG21	78:d9:34:TYR:HB3	1.93	0.51
1:1:1110:U:H2'	1:1:1111:U:C6	2.46	0.51
1:1:2122:G:H2'	1:1:2123:G:H8	1.76	0.51
6:l:52:VAL:HG11	6:l:99:MET:HE3	1.93	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:l:237:GLN:O	6:l:246:ARG:HG3	2.11	0.51
12:r:61:SER:HB2	12:r:63:GLU:HG2	1.92	0.51
17:w:55:HIS:HA	17:w:58:LEU:HB2	1.92	0.51
25:6:879:G:O2'	62:c3:105:ASN:HB3	2.10	0.51
25:6:1413:U:O2'	84:6:1942:OHX:N6	2.44	0.51
25:6:1765:A:OP2	84:6:1982:OHX:N1	2.44	0.51
25:6:1788:G:OP2	63:c4:132:ARG:NH1	2.43	0.51
26:7:60:LYS:NZ	25:A:1680:G:OP1	2.43	0.51
1:AR:55:G:OP1	39:DL:43:LYS:NZ	2.30	0.51
1:AR:779:G:OP1	19:CS:185:LYS:NZ	2.43	0.51
1:AR:2689:A:C8	1:AR:2702:A:C6	2.99	0.51
1:AR:2712:U:HO2'	1:AR:2743:A:HO2'	1.59	0.51
1:AR:2818:U:H5'	1:AR:2818:U:C6	2.36	0.51
1:AR:3011:A:N1	1:AR:3043:C:O2'	2.38	0.51
2:AS:19:C:H2'	2:AS:20:A:C8	2.46	0.51
6:CF:125:ALA:O	6:CF:129:THR:HG23	2.11	0.51
16:CP:133:ILE:HG13	16:CP:133:ILE:O	2.10	0.51
22:CV:39:ILE:CD1	22:CV:102:ARG:HD3	2.41	0.51
33:DF:19:ARG:HD3	33:DF:35:GLU:CG	2.41	0.51
25:A:526:A:P	73:Z:93:ARG:HH21	2.34	0.51
51:D:227:PRO:HA	51:D:230:TRP:CE2	2.46	0.51
56:I:50:ASP:OD1	56:I:50:ASP:N	2.42	0.51
57:J:12:SER:HB3	57:J:18:ARG:NH1	2.25	0.51
79:f:14:VAL:O	79:f:18:THR:HG23	2.10	0.51
59:c0:4:PRO:HG2	59:c0:7:ASP:HB2	1.91	0.51
65:c6:131:GLY:HA3	65:c6:136:SER:O	2.10	0.51
1:1:72:C:H5'	14:t:63:VAL:HG22	1.93	0.51
1:1:654:C:H2'	1:1:655:C:C6	2.46	0.51
1:1:848:A:C5	1:1:849:C:H1'	2.45	0.51
1:1:2273:G:N2	1:1:2311:G:H2'	2.24	0.51
1:1:3364:C:OP1	84:1:3466:OHX:N2	2.44	0.51
22:2:104:GLU:HG3	22:2:105:PHE:N	2.26	0.51
25:6:1015:U:OP1	84:6:1910:OHX:N3	2.43	0.51
33:AE:13:THR:HG23	33:AE:72:ARG:HH11	1.75	0.51
1:AR:781:G:OP1	19:CS:151:ARG:HD2	2.10	0.51
1:AR:1169:A:H4'	9:CI:219:LYS:HD3	1.93	0.51
1:AR:3181:C:H2'	1:AR:3182:G:C8	2.46	0.51
2:AS:3:U:H2'	2:AS:4:U:H6	1.76	0.51
3:AT:137:C:OP2	84:AT:219:OHX:N4	2.44	0.51
6:CF:181:VAL:HA	6:CF:184:SER:OG	2.11	0.51
11:CK:16:VAL:HG12	11:CK:29:GLY:HA2	1.92	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:CM:133:ARG:NH1	13:CM:152:HIS:O	2.44	0.51
18:CR:174:GLY:O	18:CR:178:ALA:HB3	2.11	0.51
28:DA:106:ILE:HG21	28:DA:109:LEU:HD23	1.93	0.51
36:DI:99:LYS:O	36:DI:103:LYS:HG2	2.11	0.51
25:A:872:G:H2'	25:A:873:U:O4'	2.11	0.51
25:A:1521:G:O6	68:U:68:ARG:NH1	2.44	0.51
52:E:11:LEU:HD12	69:V:86:ILE:HG12	1.92	0.51
52:E:32:GLU:OE1	52:E:32:GLU:N	2.43	0.51
52:E:142:LEU:HD11	52:E:182:LEU:HD21	1.92	0.51
56:I:163:ASP:O	56:I:166:LEU:HB2	2.11	0.51
58:K:107:ARG:HH21	58:K:150:LEU:H	1.58	0.51
61:N:33:ARG:O	61:N:36:LEU:HB2	2.11	0.51
56:s7:56:LYS:HB2	56:s7:88:ARG:NH1	2.26	0.51
58:s9:27:GLU:OE1	58:s9:39:LYS:NZ	2.44	0.51
1:1:1330:A:OP2	35:AG:19:SER:OG	2.29	0.51
1:1:2202:C:O2'	4:j:240:ALA:O	2.20	0.51
1:1:2775:U:H2'	1:1:2776:C:C6	2.46	0.51
1:1:3157:U:H4'	1:1:3158:G:H5'	1.92	0.51
10:p:164:VAL:O	10:p:167:PRO:HD2	2.11	0.51
13:s:109:HIS:HE1	13:s:122:ILE:HA	1.76	0.51
25:6:1188:G:O2'	25:6:1430:U:OP1	2.26	0.51
25:6:1275:A:H8	25:6:1275:A:OP2	1.94	0.51
25:6:1539:G:O4'	67:c8:40:ARG:NH1	2.43	0.51
38:AJ:66:GLU:OE1	38:AJ:70:ARG:NH2	2.43	0.51
42:AN:98:LYS:HD3	42:AN:118:THR:HG21	1.91	0.51
1:AR:2294:U:O2	1:AR:2296:A:C8	2.64	0.51
1:AR:2821:C:O4'	86:AR:4239:7MB:C10	2.59	0.51
1:AR:3171:U:H3	1:AR:3279:A:H61	1.59	0.51
6:CF:300:ARG:O	19:CS:39:ARG:NH1	2.44	0.51
18:CR:88:VAL:O	18:CR:92:GLN:HG2	2.10	0.51
24:CX:74:MET:HE3	24:CX:102:ILE:HB	1.92	0.51
32:DE:40:LYS:HB3	32:DE:101:LEU:HD11	1.93	0.51
25:A:197:A:H61	57:J:138:ASN:ND2	2.09	0.51
25:A:237:C:O2'	25:A:240:U:O4	2.29	0.51
52:E:29:LEU:HB2	52:E:34:TYR:HB2	1.91	0.51
52:E:164:VAL:O	52:E:168:ILE:HG13	2.10	0.51
52:E:222:VAL:HG11	81:h:229:LYS:HA	1.93	0.51
53:F:143:ASP:OD1	53:F:143:ASP:N	2.43	0.51
67:T:86:LEU:HD12	67:T:99:HIS:HB2	1.92	0.51
80:g:108:VAL:HG12	80:g:114:VAL:HG12	1.93	0.51
50:s1:46:THR:OG1	50:s1:47:LEU:N	2.42	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:c6:95:LYS:HE3	65:c6:96:TYR:CE1	2.46	0.51
68:c9:125:SER:O	68:c9:129:GLN:N	2.31	0.51
69:d0:95:ALA:HB1	69:d0:99:ILE:HB	1.93	0.51
72:d3:19:ARG:O	72:d3:23:ARG:HB2	2.10	0.51
81:sR:193:ILE:HG22	81:sR:194:GLY:H	1.76	0.51
1:1:1054:A:H5''	1:1:2637:A:N6	2.26	0.50
1:1:1940:G:N2	1:1:3362:A:H8	2.08	0.50
1:1:2775:U:H2'	1:1:2776:C:H6	1.76	0.50
1:1:2987:A:H2'	1:1:2988:C:O4'	2.11	0.50
5:k:305:ILE:HG12	5:k:321:PHE:CZ	2.46	0.50
6:l:145:ILE:O	84:l:401:OHX:N2	2.44	0.50
7:m:132:THR:OG1	7:m:171:LEU:O	2.29	0.50
25:6:473:A:H5'	25:6:769:A:H1'	1.92	0.50
25:6:1244:A:N3	25:6:1244:A:H3'	2.25	0.50
25:6:1400:A:H4'	82:c7:60:ARG:HH22	1.74	0.50
25:6:1478:G:H5'	68:c9:47:PRO:HB3	1.92	0.50
27:8:105:VAL:HG11	27:8:126:LEU:HD22	1.93	0.50
30:AB:47:LYS:HE2	30:AB:48:TYR:CZ	2.46	0.50
44:AP:38:GLN:HA	44:AP:38:GLN:HE21	1.76	0.50
1:AR:284:A:H4'	1:AR:285:A:C2	2.46	0.50
1:AR:872:U:H2'	1:AR:873:C:C6	2.46	0.50
1:AR:1019:G:H1	1:AR:1033:U:H3	1.58	0.50
1:AR:2429:G:OP2	84:AR:3548:OHX:N5	2.45	0.50
1:AR:2652:U:C5	1:AR:2653:C:C4	2.99	0.50
84:AR:3578:OHX:N2	20:CT:14:VAL:O	2.44	0.50
6:CF:44:LYS:O	6:CF:47:ARG:HB2	2.11	0.50
10:CJ:65:LEU:HD13	10:CJ:69:LEU:HD13	1.93	0.50
12:CL:161:GLY:O	12:CL:163:GLN:NE2	2.44	0.50
13:CM:168:ASP:OD2	84:CM:201:OHX:N3	2.43	0.50
17:CQ:58:LEU:HA	17:CQ:72:HIS:CD2	2.46	0.50
20:CT:105:LEU:HD12	20:CT:135:LYS:HG3	1.93	0.50
34:DG:9:ILE:HG23	34:DG:63:THR:HB	1.93	0.50
36:DI:8:ARG:NH2	36:DI:31:ARG:HH11	2.09	0.50
25:A:513:U:H2'	25:A:514:G:C8	2.46	0.50
25:A:1449:U:H2'	25:A:1450:U:C6	2.46	0.50
64:Q:64:LYS:HA	64:Q:73:PRO:HB3	1.93	0.50
69:V:48:HIS:NE2	69:V:50:LEU:HD11	2.27	0.50
70:W:71:ARG:HB2	70:W:83:TRP:CE2	2.46	0.50
53:s4:251:GLU:O	53:s4:255:ARG:HG2	2.10	0.50
56:s7:98:ILE:HG12	56:s7:121:VAL:HG21	1.93	0.50
79:e0:53:LYS:O	79:e0:54:ARG:HB3	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:194:U:H2'	1:1:195:U:H6	1.76	0.50
1:1:358:G:N2	1:1:361:A:OP2	2.42	0.50
1:1:2232:A:OP2	84:1:3582:OHX:N3	2.44	0.50
1:1:2374:C:O5'	84:1:3408:OHX:N3	2.43	0.50
1:1:2534:G:O6	84:1:3535:OHX:N6	2.44	0.50
1:1:2853:A:O3'	12:r:64:ALA:HB2	2.11	0.50
3:4:87:G:OP2	37:AI:5:LYS:NZ	2.44	0.50
17:w:51:LYS:HE2	17:w:144:SER:OG	2.10	0.50
21:0:5:LYS:HD3	21:0:63:GLN:NE2	2.27	0.50
35:AG:26:ASN:O	35:AG:84:THR:HG22	2.11	0.50
1:AR:286:U:OP2	84:AR:3481:OHX:N2	2.44	0.50
1:AR:508:U:O4	84:AR:3715:OHX:N1	2.44	0.50
1:AR:1536:G:O6	84:AR:3423:OHX:N6	2.44	0.50
1:AR:3160:U:H2'	1:AR:3161:C:C6	2.47	0.50
84:AR:3504:OHX:N2	9:CI:217:PRO:HA	2.26	0.50
3:AT:97:A:OP1	37:DJ:63:ARG:NH2	2.40	0.50
5:CE:84:VAL:HG22	5:CE:162:VAL:HB	1.93	0.50
10:CJ:148:ALA:HA	10:CJ:201:THR:HG22	1.93	0.50
12:CL:208:ASN:HA	12:CL:211:ARG:HD2	1.92	0.50
14:CN:165:SER:O	14:CN:167:PHE:N	2.45	0.50
15:CO:26:GLY:O	15:CO:29:ALA:HB2	2.11	0.50
21:CU:93:GLU:OE1	21:CU:135:VAL:HG12	2.12	0.50
23:CW:94:ARG:HH21	23:CW:96:VAL:HG22	1.75	0.50
32:DE:16:LEU:O	32:DE:20:SER:OG	2.24	0.50
37:DJ:67:ARG:HG3	37:DJ:80:LEU:HD13	1.93	0.50
47:p0:53:MET:SD	47:p0:85:GLY:HA3	2.50	0.50
25:A:93:A:H4'	25:A:94:U:OP2	2.11	0.50
55:H:155:ASP:OD1	55:H:155:ASP:N	2.43	0.50
60:M:8:GLN:OE1	60:M:14:GLN:N	2.43	0.50
81:h:156:VAL:HA	81:h:169:ILE:HG22	1.92	0.50
53:s4:60:GLU:OE1	73:d4:20:ARG:NH1	2.41	0.50
53:s4:85:GLY:N	53:s4:88:ASP:OD2	2.44	0.50
53:s4:183:VAL:HG21	53:s4:218:PHE:HE2	1.76	0.50
1:1:83:U:H2'	1:1:84:U:O4'	2.11	0.50
1:1:202:G:O6	84:1:3482:OHX:N1	2.44	0.50
1:1:1695:U:O2'	1:1:1749:A:N1	2.40	0.50
1:1:2609:A:H2'	1:1:2610:G:H8	1.77	0.50
1:1:2726:C:O2'	1:1:2727:A:H2'	2.11	0.50
4:j:201:GLY:HA2	4:j:204:MET:SD	2.51	0.50
5:k:37:ARG:HG3	5:k:186:GLY:HA2	1.94	0.50
5:k:79:VAL:HG13	5:k:322:ILE:HB	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:284:ARG:HB3	5:k:323:MET:HB3	1.92	0.50
6:l:118:LYS:O	6:l:122:THR:HG23	2.11	0.50
6:l:327:LEU:HA	9:o:166:ASN:ND2	2.27	0.50
11:q:161:LEU:O	11:q:164:ILE:HG22	2.10	0.50
20:z:123:LEU:O	20:z:127:SER:N	2.38	0.50
25:6:1466:G:O2'	25:6:1602:C:OP1	2.26	0.50
25:6:1590:G:H2'	25:6:1591:C:H6	1.76	0.50
33:AE:46:THR:HG21	33:AE:91:SER:OG	2.11	0.50
1:AR:2442:G:N1	1:AR:2443:A:N7	2.59	0.50
84:AR:3443:OHX:N5	84:AR:3731:OHX:N6	2.59	0.50
12:CL:74:LYS:O	12:CL:78:THR:HG23	2.11	0.50
25:A:142:G:H1	25:A:173:A:H2	1.59	0.50
25:A:782:U:H4'	25:A:783:G:OP2	2.10	0.50
25:A:1601:G:OP1	68:U:86:ARG:NH2	2.44	0.50
58:K:74:ASN:HA	58:K:77:ILE:HD12	1.93	0.50
66:S:26:LEU:HD13	66:S:59:LYS:HG3	1.93	0.50
51:s2:140:ARG:HH11	70:d1:10:GLU:CD	2.19	0.50
65:c6:109:PHE:HB3	65:c6:116:LEU:HD13	1.92	0.50
72:d3:44:GLY:H	72:d3:78:LYS:NZ	2.09	0.50
1:1:1667:A:H2'	1:1:1668:G:C8	2.46	0.50
1:1:1816:A:O2'	1:1:1817:G:OP1	2.22	0.50
4:j:117:GLU:CD	4:j:121:GLY:H	2.20	0.50
25:6:29:U:H2'	25:6:30:G:C8	2.46	0.50
25:6:592:A:O2'	25:6:596:C:OP1	2.30	0.50
25:6:1534:G:N7	74:d5:77:ARG:NH2	2.57	0.50
1:AR:994:G:OP2	84:CV:201:OHX:N2	2.43	0.50
1:AR:2263:C:O2'	1:AR:2264:U:P	2.69	0.50
1:AR:2728:G:N7	22:CV:87:LYS:NZ	2.55	0.50
1:AR:2749:G:O2'	7:CG:35:ARG:HG2	2.11	0.50
5:CE:139:GLN:OE1	5:CE:142:ALA:N	2.44	0.50
5:CE:233:TRP:CD1	5:CE:265:ALA:HB1	2.46	0.50
14:CN:57:VAL:HG22	14:CN:147:ILE:HD13	1.94	0.50
15:CO:36:VAL:HG11	15:CO:55:ARG:NH2	2.26	0.50
21:CU:79:VAL:HG21	21:CU:106:LEU:HD11	1.93	0.50
34:DG:22:SER:HA	34:DG:28:VAL:HB	1.94	0.50
25:A:67:A:OP1	55:H:171:LYS:NZ	2.38	0.50
25:A:432:G:H2'	25:A:433:C:O4'	2.11	0.50
55:H:154:ARG:HD2	55:H:178:LEU:HD21	1.93	0.50
72:Y:131:SER:O	72:Y:131:SER:OG	2.29	0.50
49:s0:52:LYS:HE2	70:d1:82:VAL:HA	1.93	0.50
67:c8:30:TYR:O	67:c8:33:THR:OG1	2.30	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:c9:49:ASP:OD1	68:c9:52:GLY:N	2.37	0.50
81:sR:309:VAL:HB	81:sR:311:ARG:NH1	2.26	0.50
1:1:289:A:H2'	1:1:290:G:H8	1.76	0.50
1:1:398:A:O2'	1:1:1416:C:OP1	2.19	0.50
1:1:938:C:O2	1:1:2813:A:O2'	2.24	0.50
1:1:2157:G:O6	4:j:152:SER:N	2.45	0.50
1:1:2192:C:O2'	1:1:2312:A:N1	2.34	0.50
1:1:2359:C:H2'	1:1:2360:C:C6	2.47	0.50
1:1:3016:A:H2'	1:1:3017:A:C8	2.47	0.50
10:p:91:PHE:HZ	10:p:185:ARG:HB3	1.77	0.50
12:r:96:VAL:HG22	12:r:125:LEU:HD21	1.93	0.50
20:z:4:LEU:HD13	20:z:32:ILE:HG21	1.94	0.50
22:2:17:ARG:O	22:2:18:ASP:HB2	2.12	0.50
25:6:83:G:N7	84:6:1953:OHX:N1	2.60	0.50
25:6:871:G:H2'	25:6:872:G:C8	2.47	0.50
1:AR:614:C:H2'	1:AR:615:U:C6	2.47	0.50
1:AR:634:C:H5'	35:DH:21:ARG:O	2.12	0.50
1:AR:1027:A:C6	1:AR:1029:G:H1'	2.47	0.50
1:AR:1284:C:O2'	1:AR:1285:G:H5'	2.12	0.50
1:AR:1735:G:O6	84:AR:3469:OHX:N1	2.44	0.50
1:AR:3363:U:H2'	1:AR:3364:C:H6	1.76	0.50
7:CG:107:ARG:HH22	7:CG:120:LYS:HA	1.76	0.50
18:CR:25:SER:HB3	18:CR:28:ASN:HB2	1.93	0.50
19:CS:65:SER:HA	19:CS:93:ILE:HD13	1.92	0.50
19:CS:133:LYS:HB2	19:CS:135:GLN:NE2	2.26	0.50
27:CZ:105:VAL:HG13	27:CZ:130:TYR:CG	2.47	0.50
29:DB:46:ILE:HD11	29:DB:48:ARG:C	2.37	0.50
48:sM:37:VAL:HG12	48:sM:38:PRO:O	2.11	0.50
25:A:73:U:O4	55:H:169:TYR:OH	2.28	0.50
25:A:470:A:OP2	84:A:1954:OHX:N2	2.45	0.50
25:A:872:G:O6	84:A:2004:OHX:N3	2.44	0.50
25:A:927:C:H1'	63:P:125:SER:HB2	1.94	0.50
57:s8:22:ARG:HG3	57:s8:23:LYS:O	2.12	0.50
57:s8:22:ARG:NH1	57:s8:28:GLU:OE2	2.45	0.50
69:d0:65:ILE:HD13	78:d9:33:LYS:HD3	1.93	0.50
1:1:335:G:H5''	28:9:9:SER:HB2	1.94	0.50
1:1:855:U:H2'	1:1:856:G:O4'	2.11	0.50
1:1:1499:C:H2'	1:1:1500:G:H8	1.75	0.50
1:1:1934:G:N7	84:1:3422:OHX:N2	2.59	0.50
5:k:10:ARG:NH2	5:k:263:SER:O	2.44	0.50
11:q:75:VAL:HA	11:q:78:MET:HE2	1.94	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:l2:15:LEU:HD23	24:l2:53:SER:HB3	1.92	0.50
25:6:217:A:C8	25:6:218:A:C8	3.00	0.50
38:AJ:90:MET:HE3	38:AJ:93:ILE:HG13	1.93	0.50
1:AR:1306:G:C6	17:CQ:62:THR:HA	2.47	0.50
1:AR:1352:A:H4'	1:AR:1353:U:OP1	2.11	0.50
1:AR:1696:A:OP2	84:AR:3684:OHX:N6	2.45	0.50
1:AR:1806:A:H2'	1:AR:1807:G:O4'	2.12	0.50
1:AR:3040:A:H5''	24:CX:12:ARG:HB2	1.92	0.50
6:CF:36:HIS:O	6:CF:40:THR:HG23	2.12	0.50
9:CI:141:TYR:CE2	9:CI:145:ARG:HD2	2.47	0.50
14:CN:14:PHE:HB3	14:CN:18:TRP:CD1	2.46	0.50
20:CT:159:ALA:HA	20:CT:162:ARG:NH2	2.27	0.50
25:A:751:G:H2'	25:A:752:A:H8	1.77	0.50
25:A:806:A:H61	56:I:104:ARG:HH22	1.58	0.50
25:A:1183:A:C6	25:A:1184:A:N1	2.79	0.50
25:A:1404:C:H2'	25:A:1405:G:C8	2.47	0.50
25:A:1600:A:O2'	25:A:1602:C:N4	2.45	0.50
53:F:180:LEU:O	53:F:228:ILE:N	2.43	0.50
56:I:139:ARG:HD3	71:X:53:ILE:HA	1.94	0.50
57:J:103:GLN:HB3	57:J:164:ARG:HG2	1.94	0.50
51:s2:225:LEU:HD22	51:s2:230:TRP:CD1	2.46	0.50
61:c2:79:ALA:HA	61:c2:85:LYS:NZ	2.27	0.50
72:d3:23:ARG:HD2	72:d3:29:TYR:CE1	2.47	0.50
81:sR:25:THR:OG1	81:sR:26:SER:N	2.45	0.50
1:1:39:A:H5''	30:AB:35:ALA:HB2	1.94	0.50
1:1:213:A:H2'	1:1:214:G:O4'	2.12	0.50
1:1:1176:C:H2'	1:1:1177:G:N2	2.27	0.50
1:1:1675:G:H2'	1:1:1676:A:H8	1.77	0.50
1:1:3164:C:O2'	1:1:3165:A:H8	1.95	0.50
17:w:27:LEU:O	17:w:101:ARG:NH1	2.44	0.50
19:y:135:GLN:CD	19:y:135:GLN:H	2.20	0.50
22:2:104:GLU:OE1	22:2:130:ARG:NH1	2.45	0.50
25:6:39:A:C4	25:6:467:G:N2	2.79	0.50
25:6:477:A:H2'	25:6:478:A:H8	1.76	0.50
25:6:729:G:O2'	25:6:730:G:O5'	2.28	0.50
25:6:1357:A:H2'	25:6:1358:G:H8	1.76	0.50
25:6:1620:C:HO2'	25:6:1621:U:P	2.34	0.50
28:9:87:LYS:HG3	28:9:97:ILE:HG12	1.94	0.50
33:AE:13:THR:HG23	33:AE:72:ARG:NH1	2.27	0.50
1:AR:614:C:H2'	1:AR:615:U:H6	1.76	0.50
1:AR:1064:A:N6	1:AR:1096:U:H3	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:3255:U:H2'	1:AR:3256:G:C8	2.47	0.50
5:CE:296:THR:HG22	5:CE:298:PHE:N	2.23	0.50
19:CS:83:VAL:O	19:CS:103:ALA:HA	2.11	0.50
23:CW:49:ASN:O	23:CW:49:ASN:ND2	2.38	0.50
25:A:118:U:OP1	84:A:2012:OHX:N3	2.44	0.50
25:A:214:G:N7	84:A:1993:OHX:N5	2.59	0.50
51:D:99:LYS:HG3	51:D:117:THR:HG22	1.93	0.50
65:R:34:SER:HB3	65:R:38:LEU:HD12	1.94	0.50
49:s0:59:LEU:HD12	70:d1:79:LEU:HD11	1.93	0.50
50:s1:131:ASP:OD1	50:s1:131:ASP:N	2.32	0.50
54:s5:73:THR:HG21	65:c6:114:ARG:HE	1.77	0.50
54:s5:77:TYR:HA	54:s5:83:ARG:HG2	1.92	0.50
1:1:259:C:H2'	1:1:260:C:C6	2.47	0.50
1:1:285:A:O2'	44:AP:45:ARG:NH2	2.45	0.50
1:1:2557:A:H5'	29:AA:135:ARG:HH11	1.76	0.50
1:1:3067:C:H5''	20:z:58:HIS:HD2	1.74	0.50
3:4:10:A:H2'	3:4:11:C:C6	2.47	0.50
10:p:156:ASP:OD2	10:p:183:LYS:N	2.45	0.50
15:u:20:VAL:O	15:u:66:THR:OG1	2.20	0.50
18:x:96:GLN:O	18:x:99:ALA:HB3	2.11	0.50
20:z:60:LYS:HE2	20:z:64:ARG:HH21	1.77	0.50
25:6:73:U:H2'	25:6:74:U:C6	2.47	0.50
25:6:496:G:O6	25:6:497:G:N2	2.44	0.50
25:6:1036:A:H2'	25:6:1037:C:C6	2.47	0.50
25:6:1776:A:H2'	25:6:1777:G:C8	2.47	0.50
34:AF:111:ARG:NH2	34:AF:115:LEU:HD21	2.27	0.50
38:AJ:58:ILE:HG22	38:AJ:90:MET:HG3	1.94	0.50
1:AR:501:A:H2'	1:AR:502:U:H6	1.77	0.50
1:AR:1049:C:H2'	1:AR:1050:U:H6	1.77	0.50
1:AR:2357:A:OP1	84:AR:3512:OHX:N4	2.45	0.50
1:AR:3330:A:H4'	5:CE:366:GLY:HA3	1.94	0.50
4:CD:243:THR:OG1	4:CD:244:GLY:N	2.45	0.50
11:CK:126:VAL:HG21	11:CK:161:LEU:HA	1.93	0.50
16:CP:48:ALA:C	16:CP:53:TYR:HB3	2.36	0.50
29:DB:10:VAL:O	29:DB:83:THR:HG22	2.12	0.50
37:DJ:94:LYS:HA	37:DJ:97:ALA:HB3	1.94	0.50
38:DK:53:TYR:O	38:DK:57:LEU:HG	2.12	0.50
38:DK:91:ASN:HA	38:DK:94:ILE:HD12	1.93	0.50
25:A:66:U:H5'	55:H:172:ALA:O	2.11	0.50
25:A:131:C:OP1	84:A:1951:OHX:N4	2.45	0.50
25:A:365:G:N7	84:A:1983:OHX:N2	2.59	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:591:A:H2'	25:A:592:A:C8	2.47	0.50
25:A:1084:A:H2'	25:A:1085:G:C8	2.47	0.50
52:E:27:ARG:HD2	59:L:60:SER:HB2	1.93	0.50
53:F:87:MET:HE1	53:F:236:ILE:HD13	1.94	0.50
54:G:59:VAL:C	54:G:61:TYR:H	2.19	0.50
67:T:84:TRP:HA	67:T:89:GLN:HE22	1.77	0.50
81:h:222:LEU:HD23	81:h:234:LEU:HD13	1.94	0.50
52:s3:132:LYS:HB3	52:s3:189:MET:HG3	1.94	0.50
71:d2:79:PHE:O	71:d2:124:LYS:HA	2.11	0.50
73:d4:20:ARG:HD2	73:d4:74:LEU:HD22	1.94	0.50
1:l:290:G:H2'	1:l:291:C:C6	2.47	0.50
1:l:1204:A:H2	1:l:2834:G:N3	2.09	0.50
1:l:1204:A:N1	1:l:2834:G:O2'	2.40	0.50
1:l:2215:A:H2'	1:l:2216:G:O4'	2.11	0.50
6:l:309:ARG:NH2	6:l:312:VAL:HB	2.27	0.50
7:m:64:ILE:HD13	7:m:105:ILE:HD12	1.93	0.50
9:o:116:PHE:HB2	9:o:199:ASN:OD1	2.11	0.50
10:p:225:LYS:O	10:p:229:VAL:HG23	2.12	0.50
23:5:41:ILE:HG12	23:5:79:LEU:HD13	1.92	0.50
25:6:169:A:C5'	55:s6:176:GLN:HG2	2.42	0.50
25:6:846:G:H2'	25:6:847:A:H8	1.76	0.50
1:AR:2612:U:H2'	1:AR:2613:U:O4'	2.12	0.50
2:AS:79:A:OP2	84:AS:209:OHX:N3	2.45	0.50
6:CF:148:ILE:HA	6:CF:149:PRO:C	2.37	0.50
10:CJ:63:LYS:O	10:CJ:67:ILE:HG13	2.11	0.50
12:CL:174:THR:HG23	12:CL:176:LEU:N	2.19	0.50
14:CN:79:GLU:OE2	14:CN:103:ASN:ND2	2.44	0.50
24:CX:68:GLU:O	24:CX:72:LYS:NZ	2.38	0.50
29:DB:136:PHE:O	36:DI:76:TYR:OH	2.16	0.50
30:DC:74:ASN:CB	30:DC:115:LYS:HB2	2.42	0.50
31:DD:25:LYS:HG3	31:DD:27:TYR:CE2	2.47	0.50
25:A:1648:A:H4'	79:f:4:VAL:HG21	1.94	0.50
54:G:144:GLU:HA	54:G:161:ASP:HA	1.94	0.50
55:H:27:PHE:CE2	55:H:36:VAL:HG21	2.47	0.50
62:O:103:GLU:HA	62:O:106:ARG:NH2	2.26	0.50
68:U:108:LEU:O	68:U:112:GLY:N	2.45	0.50
71:X:83:ILE:HD13	71:X:122:SER:HB2	1.94	0.50
72:Y:69:ARG:HH11	72:Y:116:ASP:CG	2.20	0.50
49:s0:9:LEU:HD21	49:s0:14:ALA:HB2	1.94	0.50
49:s0:184:LEU:C	49:s0:186:GLY:H	2.20	0.50
81:sR:25:THR:HG21	81:sR:295:SER:HA	1.93	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:sR:319:ASN:N	81:sR:319:ASN:OD1	2.45	0.50
1:1:317:A:C2	1:1:318:A:C4	3.00	0.49
1:1:728:G:H5'	19:y:47:VAL:HG21	1.93	0.49
1:1:1313:G:O2'	1:1:1318:A:N1	2.38	0.49
2:3:28:C:O3'	13:s:135:GLY:HA2	2.11	0.49
3:4:83:C:H1'	3:4:85:G:N2	2.28	0.49
6:l:45:ASN:O	6:l:110:ASN:ND2	2.45	0.49
11:q:48:VAL:HG13	11:q:49:ASN:H	1.76	0.49
11:q:86:TYR:CG	11:q:151:VAL:HG13	2.47	0.49
14:t:126:PHE:HD2	37:AI:115:LYS:HD2	1.77	0.49
25:6:1060:U:H4'	25:6:1061:A:H5''	1.94	0.49
25:6:1484:G:N2	25:6:1606:C:O2	2.42	0.49
35:AG:90:PRO:C	35:AG:92:LYS:H	2.20	0.49
44:AP:28:TYR:HB3	44:AP:69:VAL:HB	1.94	0.49
46:i:61:ILE:HD12	46:i:62:ARG:N	2.27	0.49
1:AR:209:A:H4'	1:AR:211:A:C8	2.46	0.49
1:AR:410:U:O4	84:AR:3604:OHX:N5	2.44	0.49
1:AR:1829:G:N7	84:AR:3550:OHX:N3	2.60	0.49
5:CE:35:ASP:HA	5:CE:184:ASN:OD1	2.12	0.49
5:CE:292:ALA:HB2	5:CE:302:LYS:HA	1.93	0.49
6:CF:38:VAL:O	6:CF:42:VAL:HG23	2.12	0.49
6:CF:157:GLU:HG3	6:CF:251:THR:HG21	1.94	0.49
9:CI:99:PRO:HB3	9:CI:130:ILE:HG22	1.94	0.49
19:CS:133:LYS:N	19:CS:135:GLN:OE1	2.43	0.49
28:DA:71:SER:N	28:DA:81:GLN:O	2.43	0.49
48:sM:66:ALA:HA	64:c5:130:ARG:HH21	1.76	0.49
25:A:522:U:H5''	73:Z:37:LYS:HG3	1.93	0.49
25:A:767:U:H6	58:K:141:VAL:HA	1.76	0.49
25:A:837:G:H2'	25:A:838:G:H8	1.76	0.49
25:A:928:U:H4'	63:P:124:ASP:OD1	2.12	0.49
49:B:12:GLU:O	49:B:16:LEU:HG	2.12	0.49
50:C:137:ILE:HD12	50:C:172:LEU:HD22	1.94	0.49
51:D:152:HIS:HB2	51:D:194:GLU:HB2	1.94	0.49
53:F:95:THR:HG22	73:Z:16:PRO:HG2	1.94	0.49
55:H:84:TYR:HE1	55:H:93:LYS:HB2	1.77	0.49
64:Q:80:MET:HB2	64:Q:83:MET:HE2	1.93	0.49
65:R:16:ALA:HB2	65:R:72:GLY:HA3	1.94	0.49
67:T:15:LEU:HD23	67:T:15:LEU:H	1.76	0.49
65:c6:7:VAL:HG22	65:c6:8:GLN:H	1.76	0.49
73:d4:57:VAL:HB	73:d4:60:PHE:HE1	1.77	0.49
81:sR:52:GLN:HG2	81:sR:53:LYS:H	1.77	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1410:U:OP2	84:1:3491:OHX:N4	2.45	0.49
2:3:92:A:C5	2:3:93:C:H1'	2.47	0.49
3:4:155:A:H4'	10:p:185:ARG:HD3	1.93	0.49
4:j:5:ILE:HD11	4:j:232:GLY:HA2	1.93	0.49
6:l:138:ARG:HH21	6:l:240:PRO:HB2	1.77	0.49
7:m:258:LYS:O	7:m:259:LYS:HB3	2.12	0.49
9:o:121:LYS:HE2	9:o:125:GLU:OE2	2.12	0.49
11:q:93:VAL:HG22	42:AN:82:LEU:HD13	1.95	0.49
11:q:109:ALA:HB1	11:q:111:PHE:CE1	2.46	0.49
25:6:538:A:C4	25:6:543:C:H5	2.30	0.49
25:6:549:G:O2'	25:6:556:A:N1	2.41	0.49
25:6:1340:U:O4	65:c6:9:THR:HA	2.13	0.49
25:6:1370:U:H4'	25:6:1371:A:H4'	1.93	0.49
25:6:1500:C:H2'	25:6:1501:C:C6	2.47	0.49
1:AR:1861:G:O6	84:AR:3556:OHX:N5	2.45	0.49
1:AR:2628:A:C2	1:AR:2629:U:H1'	2.46	0.49
5:CE:188:ILE:HA	5:CE:191:LYS:HD2	1.93	0.49
7:CG:297:GLN:OE1	84:CG:302:OHX:N1	2.45	0.49
9:CI:87:VAL:HG11	9:CI:243:MET:HE1	1.94	0.49
17:CQ:3:VAL:HG22	17:CQ:4:GLU:HG3	1.93	0.49
22:CV:17:ARG:HB3	22:CV:22:HIS:CD2	2.47	0.49
35:DH:69:GLY:HA3	35:DH:85:PHE:HA	1.93	0.49
38:DK:72:VAL:O	38:DK:76:ARG:N	2.43	0.49
25:A:641:G:H1	25:A:693:U:H3	1.60	0.49
25:A:1585:U:H4'	65:R:135:ARG:HG2	1.93	0.49
55:H:48:TYR:OH	55:H:119:GLN:O	2.26	0.49
61:N:84:ASN:CG	61:N:85:LYS:H	2.20	0.49
62:c3:30:SER:O	62:c3:34:ILE:HG13	2.12	0.49
70:d1:73:ALA:HB1	70:d1:79:LEU:HG	1.93	0.49
73:d4:20:ARG:HB3	73:d4:76:TYR:CD1	2.46	0.49
73:d4:78:SER:HB3	73:d4:81:GLU:HB2	1.94	0.49
1:1:983:A:OP1	31:AC:23:LYS:HG2	2.13	0.49
1:1:2378:C:H2'	1:1:2379:U:C6	2.47	0.49
1:1:2812:C:H2'	1:1:2813:A:H8	1.77	0.49
2:3:39:C:H5'	46:i:25:ILE:HG12	1.94	0.49
4:j:39:GLY:O	4:j:91:GLY:HA3	2.12	0.49
4:j:102:LEU:HD13	4:j:166:ILE:HD11	1.94	0.49
7:m:40:HIS:CD2	7:m:42:ALA:H	2.30	0.49
7:m:155:THR:HG22	7:m:179:ARG:HH11	1.76	0.49
10:p:156:ASP:HB2	10:p:183:LYS:HE2	1.93	0.49
17:w:8:VAL:HG13	17:w:34:VAL:HG13	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:36:C:H2'	25:6:37:U:H6	1.77	0.49
25:6:443:C:OP2	73:d4:105:ARG:HB2	2.13	0.49
25:6:835:U:H2'	25:6:836:U:H6	1.77	0.49
25:6:919:A:H2'	25:6:920:U:H6	1.75	0.49
25:6:1460:A:H2	25:6:1461:C:C2	2.30	0.49
25:6:1572:G:H1'	54:s5:185:ARG:HH12	1.77	0.49
27:8:67:ILE:HD12	27:8:121:LYS:HG3	1.94	0.49
32:AD:34:LEU:HD23	32:AD:59:TYR:HB3	1.93	0.49
35:AG:35:VAL:HG13	35:AG:40:ASP:HB3	1.94	0.49
1:AR:2604:U:OP2	84:AR:3519:OHX:N4	2.45	0.49
3:AT:145:U:H2'	3:AT:146:U:C6	2.47	0.49
8:CH:54:TYR:HA	8:CH:65:ILE:HG22	1.93	0.49
11:CK:111:PHE:HD1	11:CK:127:PRO:HA	1.77	0.49
13:CM:34:SER:HA	13:CM:67:VAL:HG21	1.94	0.49
13:CM:94:ARG:C	13:CM:96:PHE:H	2.19	0.49
13:CM:115:LYS:HG2	13:CM:116:TYR:N	2.27	0.49
14:CN:91:ARG:NH2	14:CN:97:VAL:O	2.43	0.49
27:CZ:67:ILE:HD12	27:CZ:83:VAL:HG12	1.94	0.49
25:A:328:A:H2'	25:A:329:G:C8	2.48	0.49
25:A:405:C:O2'	55:H:92:ARG:O	2.20	0.49
25:A:926:A:OP1	25:A:1016:C:O2'	2.23	0.49
25:A:1119:G:O6	84:A:2026:OHX:N4	2.46	0.49
25:A:1344:A:H2'	25:A:1345:A:C8	2.47	0.49
25:A:1490:C:H4'	25:A:1491:U:OP1	2.12	0.49
64:Q:128:HIS:O	64:Q:130:ARG:HG2	2.11	0.49
65:R:109:PHE:O	65:R:113:ASP:N	2.44	0.49
72:Y:112:LYS:O	72:Y:121:ARG:HG2	2.11	0.49
53:s4:95:THR:HG23	53:s4:97:GLU:HG2	1.93	0.49
53:s4:103:TYR:CD1	53:s4:189:LEU:HD11	2.47	0.49
58:s9:109:LEU:CB	58:s9:146:PHE:HB3	2.40	0.49
64:c5:37:ALA:O	64:c5:42:ARG:NH1	2.45	0.49
72:d3:78:LYS:HG3	72:d3:79:ASN:N	2.27	0.49
1:1:743:C:N3	19:y:141:ARG:NH1	2.60	0.49
1:1:3333:G:N2	1:1:3369:G:O2'	2.45	0.49
2:3:112:G:H2'	2:3:113:C:C6	2.47	0.49
3:4:21:C:OP1	6:l:193:LYS:HD2	2.12	0.49
3:4:87:G:OP2	37:AI:7:TYR:OH	2.26	0.49
7:m:83:LEU:HB3	7:m:88:ILE:HB	1.94	0.49
25:6:525:A:H5''	73:d4:89:TYR:CD2	2.48	0.49
25:6:813:U:OP2	62:c3:76:LYS:NZ	2.38	0.49
25:6:839:U:H2'	25:6:840:U:C6	2.48	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1140:G:OP2	84:6:1927:OHX:N5	2.45	0.49
38:AJ:33:ALA:O	38:AJ:34:SER:OG	2.28	0.49
45:AQ:8:VAL:HB	45:AQ:11:THR:HG22	1.93	0.49
1:AR:1306:G:C5	17:CQ:62:THR:HA	2.47	0.49
1:AR:1464:G:O6	84:AR:3474:OHX:N3	2.45	0.49
2:AS:110:G:C6	2:AS:111:U:C4	3.01	0.49
7:CG:65:ILE:HG22	7:CG:66:SER:O	2.12	0.49
16:CP:190:THR:O	16:CP:194:GLN:HG2	2.13	0.49
19:CS:57:ILE:HD13	19:CS:147:ARG:CZ	2.43	0.49
25:A:647:G:N2	25:A:687:G:H22	2.10	0.49
25:A:978:A:H2'	25:A:979:A:O4'	2.13	0.49
25:A:1649:G:H2'	25:A:1650:U:H6	1.78	0.49
49:B:61:ALA:HA	49:B:64:ILE:HB	1.93	0.49
49:B:110:TYR:HA	49:B:115:PHE:CE1	2.48	0.49
51:D:225:LEU:HD22	51:D:230:TRP:HD1	1.78	0.49
57:J:48:THR:HG21	57:J:54:LYS:HB2	1.93	0.49
61:N:94:ALA:HB1	61:N:119:SER:H	1.78	0.49
72:Y:42:PRO:HB3	72:Y:83:VAL:HG21	1.94	0.49
61:c2:131:ASP:OD1	61:c2:133:LEU:HD12	2.12	0.49
63:c4:61:MET:O	63:c4:65:GLN:HG2	2.11	0.49
1:1:269:G:H5'	16:v:120:TRP:CE3	2.48	0.49
1:1:634:C:O2'	34:AF:47:ARG:HD2	2.12	0.49
1:1:1081:U:OP1	84:1:3504:OHX:N6	2.46	0.49
1:1:1425:U:H2'	1:1:1426:C:H6	1.78	0.49
1:1:2744:U:OP1	84:1:3614:OHX:N1	2.45	0.49
15:u:26:GLY:O	15:u:29:ALA:HB2	2.12	0.49
15:u:94:TRP:CE2	15:u:100:ALA:HB2	2.48	0.49
25:6:353:A:OP2	84:6:1906:OHX:N3	2.44	0.49
25:6:940:A:OP1	84:6:1961:OHX:N4	2.46	0.49
25:6:1341:A:OP1	81:sR:63:GLY:HA2	2.12	0.49
26:7:50:ALA:HA	26:7:55:PHE:CD2	2.47	0.49
33:AE:7:VAL:HG11	33:AE:79:ARG:NH1	2.28	0.49
38:AJ:54:GLU:OE2	38:AJ:86:LYS:NZ	2.45	0.49
46:i:84:LYS:HG2	46:i:86:ASN:H	1.77	0.49
1:AR:430:U:H2'	1:AR:431:U:O4'	2.12	0.49
1:AR:1700:G:H2'	1:AR:1701:C:C6	2.48	0.49
1:AR:2393:G:OP2	5:CE:248:LYS:HE3	2.13	0.49
1:AR:2717:U:O3'	44:DQ:13:LYS:NZ	2.36	0.49
5:CE:46:PHE:CE2	5:CE:205:VAL:HG22	2.48	0.49
6:CF:158:SER:HA	6:CF:213:ASN:HB2	1.95	0.49
36:DI:20:ILE:HD13	36:DI:34:HIS:HA	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
39:DL:18:LEU:HA	39:DL:25:ARG:HA	1.95	0.49
48:sM:43:ASP:OD2	48:sM:45:SER:OG	2.29	0.49
25:A:800:U:O4	84:A:1932:OHX:N5	2.45	0.49
25:A:1041:G:H2'	25:A:1042:G:C8	2.48	0.49
54:G:64:VAL:O	54:G:65:ARG:HB2	2.13	0.49
57:J:36:THR:HG21	57:J:173:PRO:HB2	1.94	0.49
63:P:26:THR:HG21	63:P:97:GLY:HA3	1.94	0.49
50:s1:81:PHE:O	50:s1:106:THR:HG23	2.12	0.49
60:c1:99:ARG:HB2	72:d3:12:ALA:HB2	1.94	0.49
63:c4:85:ALA:H	63:c4:119:THR:HB	1.77	0.49
65:c6:40:GLU:C	65:c6:42:GLU:H	2.21	0.49
65:c6:89:LEU:HG	65:c6:105:LEU:HD23	1.95	0.49
72:d3:50:LYS:HD2	72:d3:77:ILE:HD12	1.95	0.49
1:1:118:U:O2	1:1:121:A:H5'	2.13	0.49
1:1:1134:G:O2'	1:1:2642:A:N3	2.35	0.49
1:1:2244:A:H5''	4:j:243:THR:OG1	2.11	0.49
1:1:2514:U:OP2	1:1:2586:G:N2	2.44	0.49
1:1:2592:G:H4'	1:1:2594:C:C2	2.48	0.49
16:v:106:VAL:O	16:v:109:ARG:N	2.46	0.49
21:0:137:ARG:HD2	21:0:137:ARG:N	2.25	0.49
25:6:197:A:H2'	25:6:198:A:H8	1.77	0.49
25:6:452:A:H3'	25:6:453:U:C6	2.48	0.49
25:6:1742:U:H2'	25:6:1743:U:H6	1.78	0.49
1:AR:887:G:H2'	1:AR:888:A:C8	2.48	0.49
1:AR:2828:G:O2'	12:CL:4:ARG:NH1	2.45	0.49
1:AR:3275:U:H3'	1:AR:3276:G:H5''	1.94	0.49
7:CG:178:ASN:O	7:CG:179:ARG:HD3	2.12	0.49
19:CS:18:ALA:HA	19:CS:53:PHE:CE1	2.47	0.49
20:CT:21:LYS:HA	20:CT:53:LYS:HD2	1.95	0.49
20:CT:153:LYS:O	20:CT:157:GLU:HB2	2.12	0.49
30:DC:77:LYS:O	30:DC:79:TRP:N	2.43	0.49
48:sM:61:ILE:HG21	67:c8:120:ARG:HG3	1.94	0.49
25:A:634:G:N2	25:A:965:U:OP2	2.34	0.49
25:A:868:G:OP1	62:O:121:ARG:NH1	2.45	0.49
25:A:1247:U:OP2	84:A:2030:OHX:N6	2.46	0.49
25:A:1248:C:H2'	25:A:1249:U:H6	1.77	0.49
25:A:1316:G:HO2'	25:A:1401:A:HO2'	1.59	0.49
53:F:11:ARG:HB2	53:F:26:CYS:O	2.12	0.49
55:H:58:LYS:HG2	55:H:105:ASP:O	2.12	0.49
58:K:6:ARG:HH11	58:K:6:ARG:HB2	1.78	0.49
73:Z:44:LEU:HA	73:Z:47:VAL:HG22	1.94	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:h:126:SER:OG	81:h:127:ARG:N	2.44	0.49
57:s8:63:GLY:HA3	57:s8:78:ILE:HD11	1.94	0.49
76:d7:56:CYS:SG	76:d7:57:GLU:N	2.83	0.49
1:1:66:A:N6	1:1:76:G:H1'	2.28	0.49
1:1:1051:U:H4'	22:2:19:PHE:CD2	2.47	0.49
1:1:2700:G:OP1	22:2:16:GLN:HG2	2.13	0.49
1:1:2862:U:H2'	1:1:2863:G:O4'	2.13	0.49
1:1:3095:U:H2'	1:1:3096:C:H6	1.77	0.49
1:1:3267:A:H2'	8:n:69:PHE:CZ	2.48	0.49
2:3:31:U:H4'	7:m:218:ARG:NH2	2.27	0.49
2:3:46:A:OP1	7:m:158:ARG:HG2	2.12	0.49
5:k:261:MET:O	5:k:264:VAL:HG12	2.12	0.49
6:l:141:ARG:HB2	6:l:176:SER:HB2	1.94	0.49
6:l:208:VAL:HG12	6:l:254:ALA:HB1	1.95	0.49
6:l:300:ARG:O	19:y:39:ARG:NH1	2.46	0.49
10:p:155:ASN:OD1	10:p:181:LYS:HA	2.12	0.49
11:q:3:TYR:HA	21:0:142:GLN:OE1	2.11	0.49
15:u:43:LYS:HE3	21:0:96:ASP:OD2	2.12	0.49
22:2:12:ARG:HD3	22:2:13:TYR:CE1	2.47	0.49
25:6:1381:U:O4	25:6:1382:A:N6	2.46	0.49
25:6:1500:C:H2'	25:6:1501:C:H6	1.78	0.49
25:6:1546:G:OP1	67:c8:123:ARG:NH1	2.46	0.49
25:6:1740:A:C6	25:6:1741:U:C4	3.00	0.49
1:AR:400:G:H4'	1:AR:401:U:O5'	2.13	0.49
1:AR:507:U:H2'	1:AR:508:U:C6	2.47	0.49
1:AR:756:U:H2'	1:AR:757:C:C6	2.48	0.49
1:AR:1212:A:OP1	11:CK:1:MET:HB3	2.12	0.49
1:AR:2767:U:OP1	44:DQ:34:SER:HB3	2.13	0.49
1:AR:3357:U:H2'	1:AR:3358:U:C6	2.47	0.49
8:CH:154:LEU:HD11	15:CO:122:VAL:HG11	1.94	0.49
14:CN:69:VAL:H	14:CN:149:GLN:HE22	1.61	0.49
17:CQ:173:ALA:O	17:CQ:176:LYS:HB3	2.13	0.49
22:CV:79:MET:O	22:CV:79:MET:HG3	2.13	0.49
34:DG:111:ARG:NH2	34:DG:115:LEU:HD21	2.28	0.49
25:A:1433:G:C2	25:A:1434:U:C2	3.01	0.49
25:A:1657:U:H4'	25:A:1658:G:O5'	2.13	0.49
51:D:53:ILE:HG23	51:D:56:ILE:HD12	1.95	0.49
55:H:55:GLY:O	55:H:63:MET:HG3	2.13	0.49
61:N:60:VAL:HG22	61:N:122:VAL:HG22	1.93	0.49
63:P:81:VAL:HG11	63:P:102:LEU:HD21	1.95	0.49
63:P:84:ARG:HG3	63:P:119:THR:HA	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:R:49:TYR:O	65:R:53:LEU:HG	2.13	0.49
68:U:113:ILE:O	68:U:124:ILE:HD12	2.13	0.49
69:V:23:ARG:HD2	69:V:90:TYR:CD1	2.48	0.49
74:a:62:VAL:O	74:a:66:VAL:HG23	2.13	0.49
50:s1:30:PHE:HB3	50:s1:96:LEU:HD22	1.95	0.49
52:s3:70:THR:HG23	52:s3:86:LEU:HD13	1.95	0.49
57:s8:83:TYR:HB3	57:s8:101:ILE:HG21	1.94	0.49
60:c1:5:LEU:HD13	60:c1:5:LEU:H	1.78	0.49
73:d4:58:PHE:CE1	73:d4:72:PHE:HB3	2.48	0.49
1:1:352:A:H61	1:1:365:A:H5'	1.78	0.49
1:1:936:A:OP1	30:AB:28:HIS:ND1	2.44	0.49
1:1:1688:U:H2'	1:1:1689:U:C6	2.47	0.49
1:1:1794:G:O2'	1:1:1795:U:H5'	2.13	0.49
3:4:142:C:H4'	16:v:60:VAL:HG21	1.94	0.49
5:k:56:ILE:HD13	5:k:76:VAL:HG21	1.95	0.49
6:l:98:ARG:HD2	6:l:99:MET:O	2.12	0.49
15:u:22:LEU:HB3	15:u:64:VAL:HG13	1.95	0.49
20:z:180:LYS:HA	20:z:183:ALA:HB3	1.94	0.49
25:6:1413:U:H4'	25:6:1414:U:OP2	2.13	0.49
1:AR:535:G:O6	84:AR:3586:OHX:N2	2.45	0.49
1:AR:818:C:N3	1:AR:920:A:H5'	2.28	0.49
1:AR:1334:U:O2'	9:CI:151:ARG:NH2	2.45	0.49
1:AR:1355:A:H4'	1:AR:1356:U:O5'	2.12	0.49
1:AR:1426:C:H2'	1:AR:1427:U:H6	1.77	0.49
1:AR:1645:U:H3	1:AR:1810:A:H61	1.61	0.49
1:AR:1954:G:H2'	1:AR:1955:U:C6	2.47	0.49
1:AR:2163:C:O2'	4:CD:8:GLN:O	2.29	0.49
12:CL:90:ARG:NH2	12:CL:134:ILE:HD12	2.27	0.49
16:CP:84:PRO:HA	16:CP:87:GLN:HG3	1.94	0.49
19:CS:40:THR:HG21	19:CS:45:ASN:ND2	2.28	0.49
20:CT:115:ILE:HG23	20:CT:119:LEU:HD23	1.95	0.49
29:DB:81:LEU:HD22	29:DB:82:PRO:HD2	1.94	0.49
25:A:1022:C:OP2	84:A:1928:OHX:N6	2.46	0.49
25:A:1274:C:H4'	25:A:1275:A:O5'	2.13	0.49
25:A:1388:A:C5	25:A:1411:A:C6	3.00	0.49
55:H:25:ARG:HG3	55:H:28:PHE:CD2	2.48	0.49
72:Y:90:ASP:O	72:Y:136:TRP:NE1	2.44	0.49
50:s1:65:VAL:HG12	50:s1:87:ARG:HB2	1.95	0.49
60:c1:94:ILE:HG22	60:c1:97:TYR:H	1.77	0.49
63:c4:81:VAL:HG13	63:c4:115:ILE:HG23	1.95	0.49
65:c6:83:GLN:HG3	65:c6:116:LEU:O	2.13	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:c9:25:GLN:HG3	68:c9:27:LYS:HG2	1.95	0.49
68:c9:33:TYR:C	68:c9:35:ASP:H	2.21	0.49
81:sR:48:THR:HG22	81:sR:55:GLY:HA2	1.95	0.49
1:1:8:C:H2'	1:1:9:U:O4'	2.13	0.49
1:1:172:G:N7	84:1:3530:OHX:N5	2.60	0.49
1:1:676:G:H5''	19:y:107:THR:HB	1.95	0.49
1:1:2395:G:H5''	5:k:255:TRP:CD1	2.48	0.49
1:1:2525:G:H2'	4:j:34:TYR:CE1	2.47	0.49
1:1:2943:G:C8	5:k:2:SER:HB3	2.48	0.49
1:1:3043:C:P	24:l:48:ARG:HH22	2.34	0.49
1:1:3259:U:H6	1:1:3259:U:H5'	1.77	0.49
1:1:3384:U:H2'	1:1:3385:U:C6	2.48	0.49
3:4:104:A:C8	3:4:105:A:C8	3.01	0.49
6:l:30:ILE:N	19:y:25:TYR:OH	2.37	0.49
9:o:88:ARG:NE	9:o:103:LEU:HD13	2.28	0.49
10:p:107:GLU:HG2	10:p:111:LYS:HE2	1.95	0.49
21:0:132:THR:OG1	21:0:133:ALA:N	2.45	0.49
22:2:126:VAL:HG23	22:2:127:GLN:H	1.78	0.49
25:6:603:U:H2'	25:6:604:A:C8	2.48	0.49
25:6:699:U:H2'	25:6:700:C:C6	2.48	0.49
25:6:700:C:H2'	25:6:701:U:C6	2.48	0.49
25:6:1711:C:H2'	25:6:1712:A:H5''	1.95	0.49
41:AM:23:LEU:HD22	41:AM:24:PRO:CD	2.42	0.49
1:AR:314:U:O4	84:AR:3690:OHX:N2	2.45	0.49
1:AR:343:U:OP2	84:AR:3425:OHX:N3	2.46	0.49
1:AR:345:G:O2'	3:AT:25:G:N3	2.44	0.49
1:AR:823:C:H5'	4:CD:19:HIS:CD2	2.47	0.49
1:AR:1493:G:OP2	1:AR:1493:G:N2	2.40	0.49
1:AR:2537:U:OP1	50:s1:226:GLY:HA2	2.13	0.49
2:AS:96:U:H4'	21:CU:119:ARG:HB2	1.95	0.49
5:CE:41:VAL:CA	5:CE:185:GLY:HA3	2.36	0.49
12:CL:51:HIS:O	12:CL:166:ILE:N	2.36	0.49
22:CV:56:PHE:CZ	22:CV:78:LYS:HD3	2.48	0.49
29:DB:102:GLU:OE1	29:DB:103:GLN:N	2.33	0.49
35:DH:38:PRO:HG2	35:DH:39:GLN:NE2	2.28	0.49
25:A:1483:A:H2'	25:A:1484:G:C8	2.47	0.49
25:A:1610:G:OP1	54:G:72:HIS:NE2	2.38	0.49
25:A:1764:C:H5''	84:A:1970:OHX:N5	2.28	0.49
57:J:37:LYS:H	57:J:59:ARG:H	1.61	0.49
58:K:28:LEU:O	58:K:32:GLY:N	2.43	0.49
64:Q:14:THR:HB	64:Q:22:LEU:HB2	1.93	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
73:Z:60:PHE:CD1	73:Z:71:GLY:HA3	2.48	0.49
81:h:176:LYS:HB3	81:h:195:HIS:O	2.13	0.49
54:s5:48:PHE:O	54:s5:65:ARG:NH1	2.45	0.49
54:s5:190:ILE:O	54:s5:194:LEU:HB2	2.13	0.49
55:s6:98:ARG:HD2	55:s6:99:GLY:H	1.76	0.49
58:s9:28:LEU:HD11	79:e0:39:LEU:HB3	1.95	0.49
69:d0:53:LYS:CB	69:d0:92:ASP:HB2	2.42	0.49
73:d4:25:VAL:HB	73:d4:60:PHE:CE2	2.47	0.49
73:d4:34:ASN:ND2	73:d4:62:THR:HG21	2.28	0.49
77:d8:32:PHE:HE1	77:d8:40:ILE:HD13	1.78	0.49
1:l:679:U:H2'	1:l:680:G:C8	2.47	0.49
9:o:96:PRO:O	9:o:99:PRO:HD2	2.13	0.49
16:v:59:PHE:HZ	16:v:148:TYR:CE2	2.31	0.49
25:6:1620:C:H2'	25:6:1621:U:H6	1.78	0.49
30:AB:47:LYS:C	30:AB:49:HIS:N	2.70	0.49
32:AD:54:SER:HB3	36:AH:94:LEU:HD13	1.94	0.49
33:AE:19:ARG:HD3	33:AE:35:GLU:CG	2.42	0.49
37:AI:71:LYS:HD2	28:DA:125:LYS:HB3	1.95	0.49
1:AR:620:U:C2'	1:AR:621:A:H4'	2.37	0.49
1:AR:2534:G:N2	1:AR:2546:C:N3	2.61	0.49
1:AR:3057:U:H5'	1:AR:3086:A:H61	1.77	0.49
1:AR:3120:C:OP2	84:AR:3418:OHX:N3	2.45	0.49
2:AS:62:U:O4	2:AS:63:A:N6	2.45	0.49
5:CE:339:ARG:HG2	5:CE:340:LYS:O	2.12	0.49
13:CM:28:ASP:O	13:CM:32:ARG:N	2.45	0.49
22:CV:104:GLU:HG3	22:CV:105:PHE:N	2.28	0.49
29:DB:14:VAL:HG22	36:DI:86:LYS:HG2	1.94	0.49
29:DB:105:SER:HA	29:DB:108:GLU:CD	2.37	0.49
48:sM:74:LYS:HD3	64:c5:130:ARG:H	1.78	0.49
25:A:78:A:H1'	55:H:175:ILE:HG12	1.95	0.49
25:A:108:A:H2'	25:A:109:G:C8	2.48	0.49
25:A:827:C:H2'	25:A:828:U:C6	2.47	0.49
50:C:111:ARG:HB3	75:b:68:TYR:CD1	2.48	0.49
50:C:173:THR:O	50:C:177:GLN:NE2	2.46	0.49
53:F:182:TYR:HE1	53:F:190:GLY:HA2	1.77	0.49
54:G:116:HIS:NE2	74:a:95:HIS:HE1	2.11	0.49
64:Q:126:VAL:HG13	64:Q:127:ARG:H	1.78	0.49
66:S:46:LEU:O	66:S:50:ILE:HG13	2.13	0.49
67:T:94:ASP:OD2	67:T:98:TYR:OH	2.24	0.49
80:g:123:ASN:CG	80:g:124:PRO:HD2	2.38	0.49
82:c7:29:GLN:OE1	82:c7:32:LYS:NZ	2.29	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
78:d9:6:VAL:HG23	78:d9:7:TRP:CE3	2.48	0.49
1:1:909:G:O2'	84:1:3538:OHX:N1	2.46	0.48
1:1:1440:G:H2'	1:1:1441:G:C8	2.47	0.48
1:1:2874:G:C6	1:1:2945:G:C8	3.00	0.48
5:k:46:PHE:CE2	5:k:205:VAL:HG22	2.48	0.48
6:l:23:PRO:O	6:l:25:VAL:N	2.44	0.48
14:t:174:ARG:NH1	38:AJ:9:ILE:HG21	2.27	0.48
25:6:930:A:H2'	50:s1:114:VAL:HG11	1.95	0.48
25:6:1344:A:H2'	25:6:1345:A:C8	2.47	0.48
25:6:1477:G:H2'	25:6:1478:G:H8	1.77	0.48
27:8:86:VAL:O	27:8:120:LYS:HB3	2.12	0.48
29:AA:74:VAL:HG23	29:AA:101:PHE:CE2	2.49	0.48
35:AG:49:ILE:O	35:AG:69:GLY:N	2.37	0.48
1:AR:269:G:P	16:CP:44:ARG:HH12	2.36	0.48
1:AR:651:G:C6	1:AR:652:G:C6	3.01	0.48
1:AR:2220:A:H2'	1:AR:2221:G:O4'	2.13	0.48
1:AR:3089:C:H2'	1:AR:3090:U:O4'	2.12	0.48
8:CH:149:ILE:HG23	8:CH:155:LEU:HD12	1.94	0.48
9:CI:202:LEU:HD13	9:CI:205:PHE:HZ	1.77	0.48
10:CJ:33:ASN:O	10:CJ:39:ALA:HB3	2.12	0.48
12:CL:20:SER:H	12:CL:23:ASN:CB	2.26	0.48
12:CL:77:THR:HG22	12:CL:82:ARG:HA	1.94	0.48
20:CT:150:GLN:HA	20:CT:153:LYS:HB3	1.95	0.48
34:DG:103:LYS:O	34:DG:106:VAL:HG22	2.13	0.48
25:A:609:U:H4'	25:A:610:G:O5'	2.13	0.48
25:A:1207:C:H4'	25:A:1208:A:O5'	2.12	0.48
25:A:1580:C:H2'	25:A:1581:C:C6	2.48	0.48
55:H:23:ARG:O	55:H:26:VAL:HG23	2.13	0.48
58:K:38:ASN:HB3	58:K:41:GLU:H	1.77	0.48
79:f:47:VAL:HG22	79:f:48:THR:H	1.77	0.48
59:c0:10:LYS:NZ	59:c0:36:ASP:HB3	2.28	0.48
62:c3:56:ASP:O	76:d7:46:VAL:HA	2.13	0.48
67:c8:126:ARG:HB2	67:c8:133:VAL:HG12	1.94	0.48
70:d1:44:ARG:H	70:d1:44:ARG:HD3	1.77	0.48
78:d9:47:ALA:HA	78:d9:50:ILE:HD12	1.94	0.48
81:sR:29:GLN:HB3	81:sR:32:LEU:HB3	1.93	0.48
1:1:167:U:H2'	1:1:168:U:C6	2.49	0.48
1:1:392:G:O2'	28:9:90:VAL:HG11	2.14	0.48
1:1:497:C:H2'	1:1:498:A:O4'	2.12	0.48
1:1:499:G:H2'	1:1:500:C:C6	2.48	0.48
1:1:1054:A:H5''	1:1:2637:A:H61	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:2852:C:N3	12:r:158:LYS:NZ	2.41	0.48
1:l:3095:U:H2'	1:l:3096:C:C6	2.48	0.48
1:1:3242:G:H2'	5:k:154:TYR:CD1	2.48	0.48
2:3:19:C:H2'	2:3:20:A:H8	1.78	0.48
5:k:204:ALA:O	5:k:207:SER:OG	2.32	0.48
12:r:66:GLU:CD	12:r:69:ARG:HH21	2.21	0.48
13:s:26:SER:HB3	13:s:63:GLU:O	2.13	0.48
14:t:75:PHE:O	14:t:79:GLU:HB2	2.13	0.48
15:u:72:LEU:HD22	15:u:73:PRO:CD	2.43	0.48
25:6:190:C:O2'	25:6:191:C:O5'	2.26	0.48
25:6:1181:U:H4'	64:c5:128:HIS:H	1.77	0.48
30:AB:73:LEU:HD13	30:AB:109:TYR:CZ	2.48	0.48
45:AQ:56:THR:HG22	45:AQ:63:THR:HG23	1.95	0.48
1:AR:398:A:C5	18:CR:3:ARG:NH2	2.80	0.48
1:AR:408:A:OP1	84:AR:3604:OHX:N6	2.46	0.48
1:AR:1611:G:H2'	1:AR:1612:A:H8	1.78	0.48
2:AS:72:A:O2'	2:AS:74:C:OP1	2.28	0.48
3:AT:151:C:C6	27:CZ:24:LEU:HD11	2.48	0.48
10:CJ:244:ALA:HA	10:CJ:247:ASP:HB2	1.95	0.48
14:CN:75:PHE:O	14:CN:79:GLU:HB2	2.13	0.48
22:CV:42:ILE:HA	22:CV:96:ILE:HD12	1.95	0.48
23:CW:28:PHE:CE1	23:CW:83:TYR:HE2	2.31	0.48
36:DI:83:ASN:OD1	36:DI:83:ASN:N	2.46	0.48
47:p0:40:GLU:HB2	47:p0:104:ARG:HD2	1.94	0.48
47:p0:48:ARG:NH2	47:p0:91:GLU:HG3	2.28	0.48
25:A:830:U:O2'	25:A:831:U:H6	1.96	0.48
25:A:883:C:H2'	25:A:884:A:C8	2.46	0.48
25:A:952:A:H5'	62:O:98:VAL:HG22	1.95	0.48
25:A:1459:C:H5'	64:Q:126:VAL:HB	1.96	0.48
25:A:1682:U:O4	25:A:1720:G:N2	2.46	0.48
49:B:13:ASP:OD1	49:B:179:ARG:NH2	2.43	0.48
49:B:175:TYR:O	49:B:179:ARG:N	2.42	0.48
51:D:38:VAL:O	51:D:39:THR:OG1	2.31	0.48
51:D:50:ILE:HG23	51:D:55:GLU:CD	2.38	0.48
51:D:69:ILE:HD11	51:D:133:LYS:HB3	1.94	0.48
61:N:52:LEU:HD13	61:N:85:LYS:NZ	2.27	0.48
77:d:44:VAL:HG11	77:d:48:VAL:HG21	1.95	0.48
54:s5:59:VAL:C	54:s5:61:TYR:H	2.20	0.48
57:s8:138:ASN:OD1	57:s8:138:ASN:N	2.44	0.48
58:s9:126:ARG:O	58:s9:130:THR:HG23	2.13	0.48
59:c0:22:VAL:HG11	59:c0:33:GLU:HG3	1.94	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:d3:43:PHE:CE1	72:d3:49:ALA:HB3	2.47	0.48
77:d8:58:GLU:HB3	77:d8:61:ARG:HG3	1.94	0.48
1:1:121:A:C2	10:p:129:PRO:HB3	2.48	0.48
1:1:835:G:HO2'	1:1:857:G:H22	1.53	0.48
1:1:1724:U:H1'	1:1:1725:C:C6	2.48	0.48
1:1:1830:G:H5''	27:8:92:LYS:HE2	1.95	0.48
1:1:3006:A:C2	1:1:3141:A:C4	3.02	0.48
84:1:3507:OHX:N1	3:4:31:G:OP2	2.47	0.48
5:k:236:LYS:HG3	5:k:237:LYS:N	2.29	0.48
6:l:23:PRO:HG2	6:l:258:LEU:HD23	1.96	0.48
13:s:82:ARG:CG	13:s:112:LEU:HB2	2.43	0.48
17:w:54:TYR:CE1	17:w:58:LEU:HD22	2.48	0.48
23:5:15:PHE:HB2	23:5:65:VAL:HB	1.96	0.48
25:6:324:U:C2	25:6:325:G:C8	3.02	0.48
25:6:514:G:O2'	25:6:515:A:H5''	2.13	0.48
25:6:1451:C:H2'	25:6:1452:U:C6	2.48	0.48
30:AB:65:GLN:O	30:AB:66:ALA:HB3	2.12	0.48
1:AR:18:G:OP1	37:DJ:81:ARG:NH2	2.47	0.48
1:AR:255:A:H2'	1:AR:256:G:H8	1.78	0.48
1:AR:265:A:H5'	38:DK:34:SER:HB2	1.96	0.48
1:AR:792:G:O6	84:AR:3685:OHX:N2	2.46	0.48
1:AR:1095:U:H4'	1:AR:1096:U:H5''	1.95	0.48
1:AR:1794:G:H4'	4:CD:191:LEU:HD13	1.96	0.48
1:AR:1939:G:C6	1:AR:2110:G:O6	2.66	0.48
1:AR:2242:A:OP2	84:AR:3674:OHX:N5	2.46	0.48
1:AR:3351:U:H3'	1:AR:3352:U:H5''	1.95	0.48
7:CG:180:PHE:HB3	7:CG:195:LEU:HD13	1.94	0.48
8:CH:38:THR:HA	8:CH:90:LYS:HG3	1.94	0.48
11:CK:8:GLN:HB3	11:CK:72:LYS:HD2	1.95	0.48
13:CM:17:LEU:HD21	13:CM:19:LEU:HD21	1.95	0.48
25:A:196:G:O2'	25:A:197:A:H8	1.96	0.48
25:A:377:G:O6	84:A:1956:OHX:N5	2.47	0.48
25:A:1553:G:O6	64:Q:43:ARG:HD3	2.13	0.48
25:A:1590:G:H2'	25:A:1591:C:H6	1.77	0.48
25:A:1654:G:H2'	25:A:1745:G:N2	2.28	0.48
50:C:61:LEU:HD23	50:C:62:LYS:H	1.78	0.48
53:F:163:ASP:C	53:F:165:ALA:H	2.19	0.48
54:G:57:SER:C	54:G:59:VAL:H	2.15	0.48
54:G:146:THR:HB	54:G:157:ARG:HB3	1.95	0.48
67:T:30:TYR:HE2	67:T:40:ARG:HH11	1.60	0.48
73:Z:124:ARG:HG2	73:Z:127:LYS:HE2	1.96	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s0:89:PHE:CD2	49:s0:178:ALA:HB2	2.48	0.48
50:s1:30:PHE:CD2	50:s1:94:LYS:HA	2.47	0.48
50:s1:36:SER:H	50:s1:231:LEU:HD22	1.78	0.48
56:s7:89:HIS:CG	56:s7:165:LYS:HG2	2.48	0.48
60:c1:7:VAL:HG12	60:c1:8:GLN:HG2	1.94	0.48
1:1:148:G:OP2	16:v:4:TYR:OH	2.20	0.48
1:1:265:A:H5''	1:1:266:A:OP2	2.13	0.48
1:1:274:G:O6	84:1:3529:OHX:N2	2.46	0.48
1:1:293:C:H2'	1:1:294:U:O4'	2.13	0.48
1:1:651:G:C6	1:1:652:G:C6	3.00	0.48
1:1:884:A:OP2	39:AK:4:GLY:HA3	2.13	0.48
1:1:2355:G:H4'	18:x:139:TYR:CE1	2.48	0.48
1:1:2378:C:H2'	1:1:2379:U:H6	1.79	0.48
1:1:2406:C:H1'	1:1:2819:A:C5	2.49	0.48
1:1:2746:A:H2'	1:1:2747:A:O4'	2.13	0.48
1:1:3075:G:H5''	33:AE:62:ARG:O	2.12	0.48
7:m:23:ARG:O	7:m:23:ARG:NE	2.37	0.48
22:2:83:ARG:NH2	22:2:85:LEU:HD11	2.27	0.48
25:6:118:U:OP1	84:6:1993:OHX:N3	2.46	0.48
25:6:1108:G:OP2	84:6:2033:OHX:N2	2.46	0.48
27:8:91:ASN:O	27:8:95:ILE:HG13	2.14	0.48
28:9:18:ALA:O	28:9:22:ALA:HB2	2.12	0.48
34:AF:40:SER:O	34:AF:44:ARG:HG3	2.13	0.48
1:AR:255:A:H2'	1:AR:256:G:C8	2.48	0.48
1:AR:744:A:N3	19:CS:141:ARG:NH1	2.62	0.48
1:AR:1750:A:OP2	40:DM:42:LYS:NZ	2.42	0.48
1:AR:2536:A:H5''	50:s1:226:GLY:CA	2.42	0.48
1:AR:2623:G:H2'	1:AR:2624:G:C8	2.49	0.48
9:CI:90:LYS:HE3	9:CI:95:ILE:HD11	1.94	0.48
23:CW:17:VAL:HG12	23:CW:19:VAL:HG13	1.95	0.48
25:A:367:A:C6	25:A:368:U:C4	3.01	0.48
25:A:434:G:N2	25:A:436:A:H3'	2.28	0.48
25:A:487:G:H3'	25:A:488:G:H5''	1.94	0.48
25:A:828:U:O4	25:A:829:A:N6	2.44	0.48
25:A:1785:U:H2'	25:A:1786:G:C8	2.49	0.48
49:B:13:ASP:HA	49:B:16:LEU:HD12	1.94	0.48
50:C:88:VAL:HG11	50:C:96:LEU:HD12	1.95	0.48
51:D:41:LEU:HD12	51:D:68:ILE:HD13	1.95	0.48
71:X:76:SER:OG	71:X:77:PRO:HD3	2.13	0.48
50:s1:110:LEU:HA	50:s1:113:MET:HE2	1.95	0.48
53:s4:176:ASP:OD1	53:s4:176:ASP:N	2.46	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:s5:73:THR:HG22	54:s5:74:ALA:N	2.28	0.48
58:s9:171:ARG:NE	58:s9:174:ARG:HD3	2.28	0.48
69:d0:96:PRO:O	69:d0:100:VAL:HG23	2.12	0.48
1:1:135:C:O2	37:AI:94:LYS:N	2.36	0.48
1:1:501:A:OP2	84:1:3548:OHX:N4	2.47	0.48
1:1:528:U:H2'	1:1:529:A:C8	2.47	0.48
1:1:2376:G:C6	1:1:2377:G:O6	2.65	0.48
1:1:2419:A:H2'	1:1:2420:C:C6	2.48	0.48
1:1:2544:U:H2'	1:1:2545:C:C6	2.48	0.48
1:1:3047:U:O2'	5:k:53:MET:HE1	2.14	0.48
2:3:26:C:H2'	2:3:27:A:O4'	2.14	0.48
8:n:43:LEU:HD11	8:n:85:ILE:HG13	1.94	0.48
25:6:375:U:H2'	25:6:376:C:H6	1.79	0.48
25:6:609:U:OP2	84:6:2009:OHX:N3	2.46	0.48
25:6:640:U:O2'	56:s7:148:LYS:NZ	2.46	0.48
25:6:988:A:C2	25:6:989:U:H1'	2.48	0.48
25:6:1512:G:H2'	25:6:1513:G:C8	2.47	0.48
1:AR:1100:U:H2'	1:AR:1101:G:C8	2.49	0.48
1:AR:1581:C:H2'	1:AR:1582:C:H5'	1.96	0.48
1:AR:2764:C:O5'	1:AR:2764:C:H6	1.96	0.48
2:AS:1:G:N2	7:CG:269:SER:OG	2.41	0.48
5:CE:187:SER:O	5:CE:188:ILE:C	2.56	0.48
5:CE:252:ILE:HG12	5:CE:266:ARG:NH2	2.24	0.48
5:CE:293:ASN:HB3	5:CE:305:ILE:HG13	1.95	0.48
12:CL:12:GLN:HA	12:CL:59:GLN:OE1	2.13	0.48
12:CL:210:ILE:HG12	12:CL:217:PHE:CZ	2.48	0.48
17:CQ:15:LEU:HD21	17:CQ:125:ARG:HG3	1.95	0.48
18:CR:126:ARG:HH21	18:CR:138:LYS:HB3	1.78	0.48
18:CR:141:SER:O	18:CR:143:PRO:HD3	2.14	0.48
27:CZ:131:ASP:HB3	27:CZ:134:ASP:HB2	1.94	0.48
35:DH:35:VAL:HG13	35:DH:40:ASP:HB3	1.95	0.48
45:DR:8:VAL:HG23	45:DR:9:GLY:H	1.78	0.48
25:A:446:A:H2'	25:A:447:U:H6	1.77	0.48
25:A:739:G:O6	84:A:1974:OHX:N4	2.46	0.48
25:A:1794:A:OP1	84:A:1970:OHX:N4	2.46	0.48
51:D:148:LEU:O	70:W:4:ASP:HB2	2.14	0.48
55:H:63:MET:HA	55:H:98:ARG:O	2.13	0.48
57:J:184:LEU:HB3	57:J:189:LEU:HB2	1.96	0.48
69:V:35:GLU:O	69:V:39:SER:N	2.44	0.48
80:g:107:LYS:O	80:g:115:THR:OG1	2.29	0.48
52:s3:209:ILE:HG22	82:c7:38:ILE:O	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:s8:43:ILE:HG12	57:s8:57:ALA:HA	1.95	0.48
59:c0:30:ALA:O	59:c0:31:LYS:HB2	2.14	0.48
60:c1:67:ARG:O	60:c1:127:GLN:HB3	2.13	0.48
73:d4:12:VAL:HG13	73:d4:23:PHE:HB3	1.94	0.48
76:d7:58:SER:C	76:d7:60:SER:H	2.20	0.48
81:sR:90:ARG:HG2	81:sR:102:ARG:HG2	1.95	0.48
1:l:787:G:H2'	1:l:788:C:C6	2.49	0.48
1:l:2771:U:O2'	1:l:2772:C:O5'	2.31	0.48
3:4:113:U:H5''	41:AM:7:PHE:HB3	1.96	0.48
5:k:361:THR:HG22	5:k:371:GLN:HB3	1.96	0.48
9:o:47:ARG:NH1	9:o:183:ASP:OD2	2.46	0.48
9:o:102:VAL:HG13	9:o:126:LEU:HD22	1.96	0.48
12:r:47:PRO:HB3	12:r:171:TRP:CH2	2.48	0.48
18:x:88:VAL:O	18:x:92:GLN:HG2	2.14	0.48
24:l2:26:ALA:O	24:l2:115:THR:HG22	2.13	0.48
25:6:367:A:H2'	25:6:368:U:O4'	2.14	0.48
25:6:1699:G:N2	25:6:1702:A:O4'	2.47	0.48
30:AB:46:ASP:O	30:AB:47:LYS:HG2	2.12	0.48
1:AR:284:A:H4'	1:AR:285:A:N3	2.29	0.48
1:AR:718:G:OP1	30:DC:117:ARG:NH2	2.46	0.48
1:AR:991:G:N7	84:AR:3683:OHX:N3	2.61	0.48
1:AR:2415:C:OP1	4:CD:2:GLY:N	2.47	0.48
1:AR:3027:A:H2'	1:AR:3028:G:O4'	2.13	0.48
3:AT:41:A:H61	3:AT:103:G:C2'	2.27	0.48
3:AT:102:U:H2'	3:AT:103:G:C8	2.49	0.48
6:CF:6:VAL:N	6:CF:20:LEU:O	2.46	0.48
13:CM:37:LEU:HD23	13:CM:37:LEU:HA	1.57	0.48
23:CW:42:LYS:HB3	23:CW:45:GLY:O	2.14	0.48
23:CW:56:VAL:HG22	23:CW:65:VAL:HG22	1.95	0.48
29:DB:3:LYS:O	29:DB:5:LEU:N	2.47	0.48
32:DE:25:LEU:HD13	32:DE:87:VAL:HG11	1.96	0.48
25:A:1248:C:H2'	25:A:1249:U:C6	2.49	0.48
25:A:1369:U:O4	84:A:1973:OHX:N2	2.47	0.48
53:F:246:LEU:HD12	53:F:246:LEU:H	1.79	0.48
54:G:62:VAL:HG22	54:G:89:ILE:HG21	1.94	0.48
57:J:29:LEU:HD21	57:J:31:ARG:HG3	1.95	0.48
63:P:12:GLN:HG3	63:P:111:ARG:HG3	1.96	0.48
67:T:99:HIS:CD2	67:T:101:LEU:HD21	2.49	0.48
68:U:61:VAL:O	68:U:65:ILE:HG13	2.13	0.48
71:X:62:VAL:HG13	76:c:7:LEU:HD12	1.96	0.48
71:X:104:LEU:HD23	71:X:104:LEU:H	1.77	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
75:b:40:ALA:HB2	75:b:71:LEU:HD21	1.94	0.48
49:s0:87:LEU:HA	49:s0:87:LEU:HD13	1.64	0.48
53:s4:9:LEU:HD12	53:s4:30:ARG:HA	1.95	0.48
53:s4:60:GLU:O	53:s4:64:ILE:HG13	2.13	0.48
59:c0:44:LYS:NZ	59:c0:47:GLN:OE1	2.27	0.48
60:c1:101:GLU:OE2	72:d3:16:ARG:NH2	2.42	0.48
75:d6:45:VAL:O	75:d6:49:ALA:HB3	2.14	0.48
75:d6:88:SER:HB2	75:d6:91:ASP:HB2	1.94	0.48
1:1:722:G:O6	84:1:3554:OHX:N6	2.47	0.48
1:1:1894:U:O2'	1:1:3054:U:OP1	2.32	0.48
1:1:2303:A:OP1	43:AO:23:ARG:NH2	2.46	0.48
1:1:3242:G:C2	1:1:3245:A:C8	3.02	0.48
3:4:150:G:N7	84:4:203:OHX:N4	2.61	0.48
7:m:190:ILE:O	7:m:192:PRO:HD3	2.14	0.48
9:o:77:VAL:HG22	22:2:139:ARG:O	2.13	0.48
9:o:169:ILE:HD13	9:o:181:ILE:HA	1.95	0.48
12:r:36:LEU:HD11	12:r:69:ARG:HD2	1.96	0.48
14:t:42:ARG:O	14:t:46:ILE:HG12	2.14	0.48
24:l2:82:ALA:O	24:l2:94:TYR:HB2	2.14	0.48
1:AR:986:U:OP2	84:AR:3647:OHX:N2	2.47	0.48
1:AR:1729:A:H4'	1:AR:1730:G:OP2	2.13	0.48
1:AR:2880:U:H1'	5:CE:250:ALA:HB3	1.94	0.48
1:AR:3228:C:H4'	1:AR:3229:G:O5'	2.13	0.48
1:AR:3298:C:H2'	1:AR:3299:A:O4'	2.13	0.48
3:AT:123:G:OP2	84:AT:213:OHX:N6	2.47	0.48
6:CF:64:SER:HA	6:CF:75:PRO:HA	1.95	0.48
6:CF:286:VAL:O	6:CF:289:ILE:N	2.47	0.48
30:DC:126:LYS:HB3	30:DC:148:ILE:HG21	1.95	0.48
32:DE:30:THR:HG22	32:DE:91:SER:HB2	1.94	0.48
25:A:538:A:H8	25:A:543:C:N4	2.11	0.48
25:A:542:A:C8	25:A:543:C:H5'	2.31	0.48
25:A:629:U:OP1	62:O:127:ARG:NH2	2.47	0.48
49:B:157:ASP:OD1	70:W:60:ARG:NH2	2.47	0.48
63:P:29:HIS:HB3	63:P:41:ARG:HA	1.96	0.48
67:T:91:ASP:OD1	67:T:92:ILE:N	2.39	0.48
77:d:12:VAL:HG22	77:d:28:VAL:HG11	1.96	0.48
50:s1:143:THR:OG1	50:s1:154:SER:O	2.19	0.48
81:sR:267:PRO:HD2	81:sR:269:TYR:HE1	1.78	0.48
1:1:565:U:H2'	1:1:566:G:C8	2.47	0.48
1:1:3228:C:H4'	1:1:3229:G:O5'	2.14	0.48
84:1:3486:OHX:N1	17:w:67:THR:HG21	2.28	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:277:SER:HB3	5:k:280:HIS:NE2	2.28	0.48
5:k:306:THR:HG22	5:k:310:GLY:HA2	1.96	0.48
6:l:205:PRO:HG2	6:l:225:VAL:HG22	1.96	0.48
9:o:156:ILE:O	9:o:159:GLN:HB2	2.14	0.48
18:x:67:ILE:HG13	18:x:82:ARG:CZ	2.43	0.48
23:5:54:VAL:HG12	23:5:67:SER:HA	1.96	0.48
25:6:12:U:H1'	25:6:1300:A:N3	2.29	0.48
25:6:1481:C:O2'	25:6:1482:C:O5'	2.30	0.48
25:6:1596:C:OP1	78:d9:16:LYS:HE2	2.13	0.48
25:6:1606:C:H2'	25:6:1607:G:C8	2.48	0.48
46:i:113:ASP:OD1	52:E:116:ARG:NH2	2.46	0.48
1:AR:359:U:H4'	1:AR:817:A:N6	2.29	0.48
1:AR:1330:A:OP2	35:DH:19:SER:HB3	2.13	0.48
1:AR:1738:C:O2'	36:DI:52:GLN:HB2	2.13	0.48
1:AR:2432:A:OP2	84:AR:3624:OHX:N6	2.47	0.48
8:CH:175:LYS:O	15:CO:117:ARG:NH2	2.47	0.48
9:CI:100:ARG:NH2	19:CS:4:ASP:OD1	2.47	0.48
10:CJ:68:ARG:NE	10:CJ:237:ILE:O	2.46	0.48
11:CK:86:TYR:CG	11:CK:151:VAL:HG13	2.49	0.48
33:DF:31:ARG:O	33:DF:35:GLU:HB2	2.14	0.48
37:DJ:70:TYR:CD2	37:DJ:77:PRO:HD3	2.49	0.48
25:A:67:A:C2	25:A:69:G:H1'	2.49	0.48
25:A:580:A:N6	25:A:583:C:O2	2.47	0.48
51:D:130:ILE:O	51:D:134:LEU:HD22	2.14	0.48
56:I:43:PHE:HB2	56:I:61:PHE:O	2.14	0.48
62:O:88:LEU:O	62:O:92:ILE:HG13	2.13	0.48
64:Q:128:HIS:O	64:Q:130:ARG:NH1	2.47	0.48
66:S:35:CYS:HA	66:S:38:ILE:HG22	1.95	0.48
69:V:45:ALA:HB1	69:V:50:LEU:HD13	1.95	0.48
70:W:3:ASN:OD1	70:W:7:GLN:N	2.47	0.48
49:s0:118:PRO:HG2	49:s0:141:ILE:HD13	1.95	0.48
49:s0:198:MET:HE1	82:c7:88:VAL:HA	1.94	0.48
53:s4:252:ARG:NH2	53:s4:252:ARG:HB3	2.29	0.48
57:s8:83:TYR:O	57:s8:101:ILE:HB	2.14	0.48
65:c6:95:LYS:O	81:sR:59:ARG:NH2	2.47	0.48
1:1:914:A:C2	4:j:204:MET:HB3	2.49	0.48
1:1:1056:U:O2	84:1:3523:OHX:N4	2.46	0.48
1:1:1337:A:C6	1:1:1338:C:C4	3.02	0.48
1:1:2375:G:O2'	1:1:2377:G:OP2	2.30	0.48
1:1:3074:G:OP1	84:1:3577:OHX:N1	2.47	0.48
1:1:3255:U:H2'	1:1:3256:G:H8	1.79	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:q:20:ILE:HB	15:u:7:VAL:HG13	1.96	0.48
25:6:610:G:H2'	25:6:614:C:C5	2.49	0.48
25:6:1333:C:O4'	52:s3:162:GLN:HG3	2.12	0.48
25:6:1619:C:O2	77:d8:22:ARG:NH1	2.42	0.48
25:6:1623:C:H2'	25:6:1624:C:C6	2.49	0.48
26:7:39:LEU:HD12	26:7:39:LEU:HA	1.73	0.48
1:AR:21:G:H1	3:AT:138:A:H61	1.59	0.48
1:AR:29:C:H4'	1:AR:62:A:H4'	1.96	0.48
1:AR:551:A:H8	1:AR:551:A:OP2	1.97	0.48
1:AR:568:G:N7	84:AR:3440:OHX:N2	2.61	0.48
1:AR:591:G:H1'	8:CH:19:LYS:HG3	1.96	0.48
3:AT:95:G:H1'	39:DL:81:GLY:O	2.14	0.48
4:CD:144:ASN:ND2	4:CD:160:SER:HB2	2.29	0.48
6:CF:222:VAL:HA	6:CF:223:PRO:HD3	1.69	0.48
19:CS:177:GLY:O	19:CS:186:VAL:N	2.47	0.48
20:CT:76:SER:HA	20:CT:80:LYS:HB2	1.95	0.48
32:DE:83:LYS:HG2	32:DE:85:PHE:CZ	2.49	0.48
37:DJ:79:ASP:OD1	37:DJ:79:ASP:N	2.45	0.48
40:DM:54:LEU:HD21	40:DM:56:ILE:HD11	1.96	0.48
25:A:71:A:H2'	25:A:72:A:O4'	2.14	0.48
25:A:122:U:O2'	53:F:35:PRO:HG3	2.14	0.48
25:A:155:U:O2'	25:A:157:A:N7	2.43	0.48
25:A:458:G:OP2	73:Z:105:ARG:NH2	2.47	0.48
25:A:539:G:H8	25:A:539:G:OP2	1.96	0.48
25:A:887:A:H2'	25:A:888:U:C6	2.48	0.48
25:A:1167:G:H2'	25:A:1168:U:C6	2.49	0.48
25:A:1663:G:O6	84:A:1919:OHX:N4	2.47	0.48
49:B:182:LEU:HB3	49:B:188:LEU:HD23	1.95	0.48
51:D:156:THR:HG21	51:D:224:PHE:CD2	2.49	0.48
52:E:220:PRO:HB3	81:h:221:MET:HE1	1.95	0.48
53:F:180:LEU:HB3	53:F:228:ILE:HG13	1.95	0.48
61:N:103:LEU:HG	61:N:116:VAL:HG22	1.94	0.48
74:a:39:ALA:HB1	74:a:72:GLY:N	2.29	0.48
51:s2:230:TRP:CE2	71:d2:68:ARG:HD2	2.49	0.48
52:s3:217:ILE:O	52:s3:218:LEU:HB2	2.13	0.48
1:1:259:C:H2'	1:1:260:C:H6	1.78	0.48
1:1:283:G:O6	1:1:304:G:H1'	2.13	0.48
1:1:798:G:H2'	1:1:799:G:O4'	2.14	0.48
1:1:945:C:H2'	1:1:946:U:C6	2.49	0.48
1:1:1158:A:H8	1:1:1158:A:O5'	1.97	0.48
1:1:1613:A:H2'	1:1:1614:C:C6	2.49	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1666:G:N2	1:1:1784:G:H1'	2.29	0.48
1:1:2437:G:N2	1:1:2511:A:H1'	2.29	0.48
1:1:2442:G:N2	1:1:2505:U:O2	2.46	0.48
5:k:43:LEU:HG	5:k:181:ILE:HG21	1.96	0.48
9:o:112:ASN:O	9:o:207:LEU:HB2	2.14	0.48
12:r:193:ASP:OD2	12:r:198:LYS:HE3	2.14	0.48
24:l2:38:ALA:O	24:l2:58:VAL:HB	2.14	0.48
25:6:98:U:H2'	25:6:99:C:C6	2.48	0.48
25:6:470:A:OP2	84:6:1958:OHX:N1	2.47	0.48
25:6:809:A:N6	25:6:810:G:O6	2.47	0.48
25:6:946:U:H2'	25:6:947:U:C6	2.49	0.48
29:AA:110:ALA:O	29:AA:114:VAL:HG23	2.14	0.48
30:AB:74:ASN:CG	30:AB:115:LYS:HB2	2.39	0.48
38:AJ:57:LEU:O	38:AJ:61:ILE:HG13	2.14	0.48
1:AR:656:A:H2'	1:AR:657:A:H8	1.79	0.48
1:AR:673:U:H2'	1:AR:674:G:C8	2.49	0.48
1:AR:996:A:H2'	1:AR:997:A:O4'	2.13	0.48
1:AR:1495:U:H4'	1:AR:1514:G:H4'	1.96	0.48
1:AR:2544:U:H2'	1:AR:2545:C:H6	1.79	0.48
1:AR:2555:G:N2	29:DB:135:ARG:O	2.43	0.48
1:AR:2643:A:H5'	31:DD:6:ASN:ND2	2.28	0.48
1:AR:2676:A:N1	13:CM:22:SER:HB2	2.28	0.48
1:AR:2881:C:H2'	1:AR:2882:U:H6	1.78	0.48
14:CN:124:ILE:HD13	14:CN:124:ILE:H	1.79	0.48
25:A:346:G:H5'	60:M:79:LYS:HB3	1.95	0.48
25:A:399:A:H4'	53:F:3:ARG:HG2	1.95	0.48
50:C:128:LYS:NZ	50:C:132:ASP:HB3	2.29	0.48
51:D:35:TRP:CE2	51:D:37:PRO:HB3	2.48	0.48
58:K:30:LEU:HD22	58:K:105:LEU:HD22	1.96	0.48
59:L:7:ASP:OD2	59:L:37:THR:HG22	2.14	0.48
63:P:26:THR:HG21	63:P:97:GLY:CA	2.44	0.48
62:c3:151:ASN:O	84:c3:201:OHX:N3	2.47	0.48
82:c7:71:PHE:CZ	82:c7:74:GLN:HB2	2.49	0.48
68:c9:33:TYR:O	68:c9:35:ASP:N	2.43	0.48
69:d0:69:LYS:HE3	69:d0:80:GLU:HB2	1.96	0.48
71:d2:53:ILE:HD13	76:d7:24:LEU:HD11	1.96	0.48
81:sR:256:THR:N	81:sR:259:GLY:O	2.42	0.48
1:1:283:G:O2'	30:AB:59:ARG:NH1	2.46	0.47
1:1:584:G:O6	84:1:3542:OHX:N2	2.47	0.47
1:1:1228:C:H2'	1:1:1229:G:H8	1.78	0.47
1:1:2357:A:H2'	1:1:2358:A:C8	2.49	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2730:G:H4'	19:y:184:PHE:CG	2.49	0.47
1:1:3067:C:H3'	20:z:62:ARG:HH12	1.77	0.47
5:k:346:THR:C	5:k:348:ARG:H	2.21	0.47
6:l:179:LEU:HD22	6:l:179:LEU:HA	1.76	0.47
10:p:230:LYS:NZ	38:Aj:47:ILE:O	2.47	0.47
25:6:836:U:H2'	25:6:837:G:C8	2.48	0.47
25:6:913:G:H4'	25:6:914:G:OP2	2.13	0.47
25:6:1680:G:O6	84:6:2050:OHX:N4	2.47	0.47
25:6:1691:A:H2'	25:6:1692:G:C8	2.49	0.47
27:8:91:ASN:OD1	27:8:94:GLN:HG3	2.14	0.47
36:AH:8:ARG:HB2	36:AH:34:HIS:NE2	2.29	0.47
38:Aj:74:LYS:HD2	38:Aj:80:PHE:HD1	1.79	0.47
1:AR:25:U:O4	84:AR:3408:OHX:N5	2.46	0.47
5:CE:76:VAL:HG21	5:CE:323:MET:HE3	1.96	0.47
5:CE:328:ILE:HG12	5:CE:329:PRO:HD2	1.95	0.47
7:CG:111:GLN:HE22	7:CG:252:ALA:HA	1.78	0.47
14:CN:55:ARG:O	14:CN:115:ARG:NH2	2.46	0.47
14:CN:126:PHE:HD2	37:Dj:115:LYS:HD2	1.79	0.47
33:DF:62:ARG:HB2	33:DF:66:GLY:O	2.14	0.47
34:DG:24:ARG:NH1	34:DG:25:TYR:OH	2.47	0.47
40:DM:41:THR:HG23	40:DM:56:ILE:HB	1.95	0.47
48:sM:68:ARG:NH1	67:c8:146:ALA:O	2.47	0.47
25:A:67:A:O3'	25:A:68:A:H3'	2.14	0.47
25:A:245:U:O4	84:A:1971:OHX:N5	2.47	0.47
25:A:912:U:H4'	25:A:913:G:O5'	2.14	0.47
50:C:105:PHE:CD1	50:C:213:ARG:HA	2.49	0.47
51:D:56:ILE:HG23	51:D:61:LEU:HB2	1.95	0.47
51:D:218:ILE:O	51:D:221:THR:OG1	2.28	0.47
49:s0:139:VAL:HG13	49:s0:141:ILE:HG13	1.96	0.47
49:s0:185:ARG:O	49:s0:185:ARG:HD3	2.13	0.47
52:s3:22:ASN:O	52:s3:26:THR:OG1	2.21	0.47
52:s3:172:THR:HG22	52:s3:185:LYS:HG2	1.96	0.47
82:c7:104:ASN:HD22	82:c7:105:GLN:N	2.12	0.47
71:d2:67:GLY:O	71:d2:68:ARG:HG2	2.13	0.47
1:1:289:A:H2'	1:1:290:G:C8	2.48	0.47
1:1:423:A:C6	1:1:424:G:C6	3.02	0.47
1:1:437:G:H2'	1:1:438:A:O4'	2.14	0.47
1:1:562:C:H2'	1:1:563:U:H6	1.78	0.47
1:1:781:G:O6	84:1:3478:OHX:N3	2.46	0.47
1:1:929:A:H2'	1:1:930:U:C6	2.50	0.47
1:1:1141:C:H2'	1:1:1142:G:O4'	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1378:U:H2'	1:1:1379:G:H8	1.79	0.47
1:1:2444:C:H42	1:1:2503:G:H21	1.61	0.47
5:k:257:PRO:HG2	5:k:261:MET:CE	2.43	0.47
13:s:40:LEU:HD13	13:s:79:ILE:HD13	1.96	0.47
25:6:832:U:H2'	25:6:833:U:O4'	2.15	0.47
25:6:872:G:H2'	25:6:873:U:O4'	2.13	0.47
25:6:1257:U:O2'	25:6:1258:U:O4'	2.31	0.47
25:6:1681:A:H1'	55:s6:66:GLY:HA3	1.95	0.47
27:8:139:ILE:O	27:8:139:ILE:HG13	2.13	0.47
28:9:63:LYS:HA	28:9:63:LYS:HD3	1.53	0.47
37:AI:101:THR:HG23	37:AI:104:GLN:H	1.79	0.47
1:AR:2536:A:H5''	50:s1:226:GLY:N	2.29	0.47
7:CG:178:ASN:HA	7:CG:183:TRP:CD2	2.48	0.47
17:CQ:37:ARG:HG3	17:CQ:108:ILE:HG13	1.96	0.47
37:DJ:85:THR:HB	37:DJ:88:LEU:HB2	1.96	0.47
37:DJ:101:THR:CG2	37:DJ:104:GLN:HB2	2.45	0.47
45:DR:49:ARG:HD3	45:DR:52:ALA:HA	1.96	0.47
25:A:257:A:H1'	57:J:73:SER:HB2	1.96	0.47
25:A:288:A:H2'	25:A:289:U:C6	2.49	0.47
25:A:488:G:OP1	25:A:488:G:H4'	2.14	0.47
25:A:602:U:H2'	25:A:603:U:C6	2.50	0.47
25:A:880:C:OP2	84:A:1999:OHX:N1	2.47	0.47
53:F:142:HIS:CD2	53:F:226:PHE:HE2	2.32	0.47
54:G:166:ARG:HB2	77:d:46:GLY:HA3	1.96	0.47
71:X:117:ARG:HH12	71:X:120:HIS:CE1	2.33	0.47
73:Z:27:VAL:HG11	73:Z:35:VAL:HG11	1.96	0.47
81:h:42:LEU:HD21	81:h:82:SER:HB3	1.97	0.47
49:s0:162:CYS:HB3	49:s0:173:ILE:HG13	1.94	0.47
58:s9:62:ARG:CZ	58:s9:68:LYS:HD3	2.43	0.47
59:c0:32:HIS:CD2	59:c0:33:GLU:N	2.81	0.47
60:c1:101:GLU:OE1	60:c1:103:ARG:NH2	2.44	0.47
1:1:595:G:O6	1:1:609:G:H5''	2.14	0.47
1:1:2217:U:H2'	1:1:2218:G:H8	1.79	0.47
1:1:2350:C:O3'	18:x:68:GLY:HA3	2.13	0.47
1:1:2400:G:H5''	1:1:2401:A:OP2	2.15	0.47
1:1:2438:A:H2'	1:1:2439:A:C8	2.50	0.47
1:1:2544:U:H2'	1:1:2545:C:H6	1.78	0.47
1:1:2623:G:H2'	1:1:2624:G:H8	1.79	0.47
1:1:2652:U:C5	1:1:2653:C:C5	3.03	0.47
6:l:26:PHE:CD1	6:l:130:ALA:HB2	2.48	0.47
15:u:115:PHE:O	15:u:119:GLN:HG3	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:y:170:ARG:O	19:y:171:LYS:HG2	2.13	0.47
21:0:90:MET:HE1	21:0:114:HIS:NE2	2.28	0.47
24:l2:32:ARG:HB3	24:l2:64:LYS:O	2.14	0.47
25:6:916:U:OP1	84:6:2011:OHX:N4	2.48	0.47
25:6:961:U:H2'	25:6:962:C:H6	1.79	0.47
25:6:1400:A:H4'	82:c7:60:ARG:NH2	2.29	0.47
26:7:9:SER:HB2	26:7:51:TRP:CZ3	2.49	0.47
1:AR:160:G:N2	1:AR:262:U:O2	2.48	0.47
1:AR:552:G:H2'	1:AR:553:U:C6	2.48	0.47
1:AR:637:C:H6	1:AR:637:C:H2'	1.45	0.47
1:AR:1148:G:OP2	84:AR:3709:OHX:N2	2.47	0.47
1:AR:1520:G:O2'	27:CZ:71:THR:HG21	2.15	0.47
1:AR:3159:C:H2'	1:AR:3160:U:C6	2.49	0.47
4:CD:211:HIS:CD2	4:CD:219:ILE:HG23	2.50	0.47
7:CG:76:ALA:HB3	7:CG:109:THR:HG22	1.96	0.47
11:CK:86:TYR:CE2	11:CK:151:VAL:HG22	2.49	0.47
12:CL:24:ARG:HH11	12:CL:24:ARG:HB2	1.80	0.47
19:CS:38:ARG:HG2	19:CS:39:ARG:HG2	1.95	0.47
25:A:352:A:H8	25:A:352:A:OP2	1.97	0.47
25:A:916:U:H3	63:P:41:ARG:NH2	2.11	0.47
25:A:996:U:H3	25:A:1008:G:H1	1.61	0.47
25:A:1523:G:C8	68:U:79:LEU:HD13	2.46	0.47
25:A:1684:U:H2'	25:A:1685:G:H8	1.79	0.47
50:C:61:LEU:C	50:C:63:GLY:H	2.22	0.47
52:E:222:VAL:CG1	81:h:229:LYS:HA	2.44	0.47
54:G:72:HIS:CD2	54:G:107:LYS:HD3	2.49	0.47
56:I:129:LEU:HD21	56:I:172:VAL:HG11	1.97	0.47
58:K:30:LEU:HD21	58:K:102:GLU:HG3	1.96	0.47
69:V:109:GLU:OE1	69:V:110:PRO:HD2	2.14	0.47
81:h:16:HIS:CE1	81:h:37:SER:HB2	2.48	0.47
50:s1:99:ASN:OD1	50:s1:100:PHE:N	2.44	0.47
53:s4:197:HIS:HB3	53:s4:209:HIS:CD2	2.42	0.47
60:c1:6:THR:O	60:c1:6:THR:OG1	2.24	0.47
69:d0:21:LYS:HA	69:d0:94:GLU:HG2	1.96	0.47
70:d1:51:VAL:HG11	70:d1:78:LEU:HD21	1.95	0.47
1:l:67:A:OP1	84:l:3448:OHX:N6	2.47	0.47
1:l:2406:C:H1'	1:l:2819:A:C6	2.49	0.47
3:4:11:C:H1'	18:x:6:ALA:HB2	1.96	0.47
4:j:136:ILE:HA	4:j:148:VAL:HG12	1.96	0.47
6:l:47:ARG:HH12	6:l:109:TRP:C	2.22	0.47
10:p:160:ILE:HG22	10:p:164:VAL:HG13	1.96	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:5:87:ASN:HB2	23:5:89:LEU:HG	1.95	0.47
25:6:188:A:H2'	25:6:189:C:O4'	2.15	0.47
25:6:343:C:H2'	25:6:344:A:H8	1.78	0.47
25:6:1794:A:H1'	75:d6:79:ILE:HD12	1.96	0.47
29:AA:10:VAL:O	29:AA:83:THR:HG22	2.15	0.47
29:AA:54:THR:OG1	29:AA:55:LYS:N	2.47	0.47
37:AI:83:LYS:O	37:AI:89:ARG:NE	2.47	0.47
37:AI:85:THR:HB	37:AI:88:LEU:HB2	1.96	0.47
46:i:51:ARG:HG3	46:i:52:PRO:HD2	1.96	0.47
1:AR:531:G:N2	1:AR:562:C:C2	2.83	0.47
1:AR:1289:G:H2'	1:AR:1290:A:H8	1.79	0.47
1:AR:1497:C:H2'	1:AR:1498:A:H8	1.79	0.47
1:AR:2916:U:H1'	24:CX:44:SER:HB3	1.96	0.47
1:AR:3304:U:HO2'	5:CE:334:ARG:HH21	1.61	0.47
1:AR:3326:G:H2'	1:AR:3327:G:H8	1.79	0.47
2:AS:77:G:N2	2:AS:102:A:OP2	2.32	0.47
8:CH:47:PHE:CD1	8:CH:74:VAL:HG22	2.49	0.47
9:CI:132:PRO:HA	9:CI:229:PHE:CD1	2.49	0.47
13:CM:150:ASN:HA	13:CM:153:LYS:HE3	1.96	0.47
14:CN:57:VAL:HG22	14:CN:147:ILE:HG23	1.95	0.47
14:CN:101:ARG:HH22	14:CN:112:ASN:HD21	1.61	0.47
20:CT:97:ARG:O	20:CT:101:VAL:HG23	2.14	0.47
21:CU:151:PRO:C	21:CU:153:PRO:HD3	2.40	0.47
41:DN:42:ARG:HG2	41:DN:43:ASN:N	2.30	0.47
25:A:123:G:N2	53:F:146:THR:HG21	2.27	0.47
25:A:209:U:H5'	57:J:171:SER:HB3	1.96	0.47
25:A:1272:U:O2'	25:A:1275:A:OP2	2.29	0.47
50:C:131:ASP:OD2	50:C:180:THR:HG23	2.15	0.47
56:I:86:GLN:HG2	56:I:87:ASP:H	1.78	0.47
57:J:9:HIS:ND1	57:J:10:LYS:HB2	2.30	0.47
72:Y:18:HIS:O	72:Y:22:ASN:ND2	2.33	0.47
72:Y:60:GLU:CD	79:f:3:LYS:HB2	2.39	0.47
81:h:129:LYS:HA	81:h:151:VAL:HG23	1.97	0.47
50:s1:129:THR:HG23	50:s1:133:TYR:O	2.13	0.47
50:s1:144:ARG:HB3	50:s1:208:GLN:HB3	1.96	0.47
54:s5:222:LYS:HA	54:s5:225:ARG:HH11	1.77	0.47
64:c5:122:THR:HG22	64:c5:123:TYR:HD1	1.79	0.47
82:c7:20:TYR:CG	82:c7:38:ILE:HD12	2.49	0.47
67:c8:29:VAL:HG13	67:c8:44:ASN:HA	1.95	0.47
67:c8:62:THR:O	67:c8:65:GLU:N	2.46	0.47
67:c8:88:ARG:NH1	67:c8:112:ASP:OD2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
72:d3:63:GLN:HA	72:d3:65:ASN:H	1.79	0.47
1:1:29:C:H4'	1:1:62:A:H4'	1.97	0.47
1:1:829:U:H3	1:1:895:A:H62	1.60	0.47
1:1:841:A:H4'	20:z:126:GLU:HA	1.96	0.47
1:1:2875:U:N1	86:1:4216:7MB:BR	3.02	0.47
4:j:230:VAL:O	4:j:233:GLN:HB2	2.14	0.47
5:k:79:VAL:HG22	5:k:81:THR:HG23	1.96	0.47
5:k:221:THR:O	5:k:272:TYR:HA	2.15	0.47
7:m:278:SER:O	7:m:281:GLU:N	2.45	0.47
16:v:105:ARG:CD	16:v:108:ARG:HH12	2.26	0.47
19:y:40:THR:C	19:y:42:ALA:H	2.22	0.47
25:6:1314:U:OP2	84:6:2045:OHX:N6	2.48	0.47
25:6:1645:G:OP2	84:6:2044:OHX:N3	2.48	0.47
25:6:1718:G:H2'	25:6:1719:A:H8	1.80	0.47
37:AI:29:ALA:O	37:AI:33:VAL:HG23	2.14	0.47
1:AR:274:G:N7	84:AR:3567:OHX:N3	2.61	0.47
1:AR:532:A:C8	1:AR:555:U:C4	3.03	0.47
1:AR:865:U:C5	1:AR:866:A:N7	2.83	0.47
1:AR:879:U:O2	1:AR:2357:A:H1'	2.15	0.47
1:AR:1121:U:C4	1:AR:1122:U:C4	3.02	0.47
1:AR:1222:G:OP2	1:AR:1222:G:H8	1.98	0.47
1:AR:1252:A:OP2	84:AR:3713:OHX:N4	2.48	0.47
1:AR:1654:A:O2'	36:DI:59:PRO:HD3	2.13	0.47
1:AR:1729:A:OP1	32:DE:88:GLY:N	2.47	0.47
1:AR:2171:G:H2'	1:AR:2172:A:H8	1.78	0.47
4:CD:27:ALA:O	4:CD:128:ARG:NH2	2.47	0.47
4:CD:209:HIS:CG	4:CD:210:PRO:HD2	2.49	0.47
5:CE:243:HIS:C	5:CE:244:ARG:HG3	2.38	0.47
6:CF:281:ILE:HG13	19:CS:125:ASP:CG	2.39	0.47
17:CQ:14:HIS:O	17:CQ:41:LEU:HD12	2.14	0.47
21:CU:124:LEU:HD23	22:CV:153:PRO:HG2	1.96	0.47
38:DK:79:SER:OG	38:DK:82:ARG:HG3	2.14	0.47
39:DL:22:CYS:SG	39:DL:24:ARG:HB2	2.55	0.47
25:A:185:U:O2	25:A:201:G:N2	2.47	0.47
25:A:322:G:O2'	57:J:10:LYS:NZ	2.47	0.47
25:A:738:G:H2'	25:A:739:G:H8	1.79	0.47
25:A:1237:G:OP2	84:A:1925:OHX:N5	2.47	0.47
25:A:1370:U:O2'	25:A:1371:A:OP2	2.20	0.47
50:C:65:VAL:HA	50:C:86:LEU:O	2.15	0.47
50:C:137:ILE:HD11	50:C:172:LEU:HB3	1.96	0.47
57:J:36:THR:OG1	57:J:96:LEU:HB2	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:M:14:GLN:HB3	60:M:54:ILE:HG12	1.95	0.47
60:M:94:ILE:HD12	72:Y:12:ALA:HB1	1.97	0.47
65:R:25:GLY:H	65:R:63:ILE:HA	1.80	0.47
53:s4:130:GLN:HB3	53:s4:138:TYR:CE1	2.49	0.47
57:s8:90:LEU:HD22	57:s8:95:THR:HB	1.97	0.47
58:s9:104:PHE:O	58:s9:147:MET:HE1	2.14	0.47
1:1:980:A:H2'	1:1:981:U:C1'	2.45	0.47
1:1:1135:A:OP2	31:AC:5:LYS:NZ	2.45	0.47
1:1:1240:A:H3'	1:1:1241:U:H5'	1.95	0.47
1:1:2181:C:OP1	4:j:192:LYS:NZ	2.36	0.47
1:1:2242:A:H5'	4:j:243:THR:HG23	1.96	0.47
1:1:2318:U:O4	84:1:3578:OHX:N2	2.48	0.47
1:1:2526:C:H2'	1:1:2527:G:C8	2.49	0.47
5:k:19:ARG:HG3	5:k:273:HIS:CE1	2.49	0.47
5:k:252:ILE:HD12	5:k:252:ILE:HA	1.75	0.47
9:o:27:ALA:C	9:o:30:ARG:HB3	2.40	0.47
10:p:91:PHE:CZ	10:p:185:ARG:HB3	2.49	0.47
11:q:93:VAL:O	11:q:177:ASP:HA	2.13	0.47
11:q:167:VAL:HB	11:q:172:ILE:HG22	1.96	0.47
12:r:174:THR:HG23	12:r:176:LEU:N	2.23	0.47
16:v:110:ALA:HB1	16:v:113:LEU:HD23	1.97	0.47
25:6:263:C:H4'	25:6:292:U:H5'	1.97	0.47
25:6:542:A:OP1	25:6:542:A:H3'	2.14	0.47
25:6:1112:G:O2'	25:6:1133:A:N6	2.43	0.47
25:6:1305:U:O2	84:6:1932:OHX:N6	2.47	0.47
1:AR:592:A:H5''	8:CH:19:LYS:HA	1.96	0.47
1:AR:1064:A:H4'	1:AR:1065:A:O5'	2.14	0.47
1:AR:1488:G:H5''	1:AR:1838:G:O6	2.15	0.47
1:AR:1588:A:C2	41:DN:4:GLN:HG2	2.49	0.47
1:AR:2342:U:H5''	1:AR:3089:C:O2'	2.14	0.47
1:AR:2987:A:O2'	5:CE:259:HIS:HB3	2.13	0.47
4:CD:65:ASP:HB3	4:CD:68:LYS:O	2.15	0.47
4:CD:137:ILE:HD11	4:CD:147:ARG:HH11	1.80	0.47
23:CW:39:ASP:O	23:CW:47:VAL:HB	2.14	0.47
25:A:448:C:OP1	53:F:29:PRO:HD3	2.14	0.47
25:A:1483:A:C2	25:A:1607:G:H1'	2.50	0.47
53:F:106:LYS:HG3	53:F:108:ARG:NH1	2.30	0.47
62:O:72:MET:HE1	62:O:82:PRO:HD2	1.96	0.47
62:O:84:ILE:HG22	62:O:135:LEU:HD21	1.97	0.47
65:R:129:PHE:CE2	69:V:78:THR:HA	2.49	0.47
66:S:99:VAL:CB	66:S:118:PRO:HB2	2.45	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
52:s3:104:SER:OG	52:s3:108:LYS:NZ	2.48	0.47
55:s6:71:THR:HG22	55:s6:72:ARG:H	1.80	0.47
60:c1:36:LYS:O	60:c1:44:THR:HG21	2.14	0.47
62:c3:54:LEU:HB3	62:c3:60:VAL:CG1	2.45	0.47
73:d4:2:SER:N	73:d4:32:ARG:HD2	2.30	0.47
1:1:44:U:O3'	84:AP:502:OHX:N1	2.48	0.47
1:1:1103:A:C5	9:o:158:LYS:HE3	2.50	0.47
1:1:1710:C:OP1	29:AA:15:ARG:NH1	2.48	0.47
1:1:1937:U:OP1	84:1:3497:OHX:N6	2.48	0.47
1:1:2197:C:C2	1:1:2241:U:C4	3.03	0.47
1:1:2211:U:O4	84:1:3582:OHX:N4	2.47	0.47
1:1:3166:C:H42	1:1:3284:G:H1	1.63	0.47
1:1:3198:U:H1'	11:q:21:LYS:HB2	1.97	0.47
3:4:15:G:H8	3:4:15:G:O5'	1.97	0.47
3:4:36:G:C8	37:AI:86:ARG:HD2	2.50	0.47
4:j:32:LEU:HD21	4:j:37:ARG:HB3	1.96	0.47
6:l:25:VAL:HG22	6:l:262:TRP:HB2	1.96	0.47
7:m:56:THR:OG1	7:m:59:ASP:HB3	2.15	0.47
9:o:132:PRO:HG2	9:o:133:TYR:CE2	2.50	0.47
13:s:49:LYS:HD3	13:s:62:ASN:HB3	1.96	0.47
14:t:76:THR:HA	14:t:98:ASP:O	2.14	0.47
14:t:126:PHE:HZ	14:t:135:ALA:HB2	1.79	0.47
18:x:10:ASN:ND2	18:x:12:ALA:HB3	2.30	0.47
23:5:14:THR:HG23	23:5:66:VAL:HG13	1.96	0.47
25:6:765:G:N1	58:s9:146:PHE:HZ	2.13	0.47
25:6:804:A:N3	71:d2:105:THR:HG22	2.29	0.47
25:6:1139:A:OP2	84:6:1927:OHX:N1	2.48	0.47
25:6:1172:G:H21	68:c9:88:VAL:CG2	2.28	0.47
25:6:1191:U:H5'	65:c6:143:ARG:NH1	2.30	0.47
25:6:1406:A:OP2	54:s5:80:LYS:HE2	2.14	0.47
25:6:1588:G:OP1	84:6:1980:OHX:N2	2.47	0.47
25:6:1595:U:N3	25:6:1600:A:H2	2.10	0.47
25:6:1603:U:H2'	25:6:1604:U:C6	2.49	0.47
26:7:4:GLU:HG2	26:7:30:ARG:CD	2.45	0.47
27:8:66:PRO:HG2	37:AI:33:VAL:HG13	1.96	0.47
27:8:67:ILE:HD12	27:8:83:VAL:HG12	1.97	0.47
46:i:72:ARG:NH2	25:A:1460:A:O3'	2.47	0.47
1:AR:75:G:H5'	14:CN:59:ARG:O	2.14	0.47
1:AR:156:G:OP2	38:DK:25:LYS:HB3	2.15	0.47
1:AR:336:A:OP2	28:DA:9:SER:OG	2.21	0.47
1:AR:561:C:OP1	15:CO:77:ARG:HG3	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1659:U:O4	84:AR:3696:OHX:N4	2.47	0.47
1:AR:1831:U:P	27:CZ:92:LYS:HD3	2.55	0.47
1:AR:2112:U:H1'	1:AR:2113:A:OP2	2.15	0.47
1:AR:3139:A:OP1	5:CE:274:SER:OG	2.30	0.47
2:AS:43:U:C4	2:AS:44:C:C4	3.02	0.47
2:AS:96:U:OP1	21:CU:43:TYR:OH	2.27	0.47
3:AT:154:C:O2'	10:CJ:185:ARG:HG3	2.15	0.47
6:CF:295:ILE:HD11	19:CS:129:VAL:HA	1.96	0.47
7:CG:51:LEU:HB2	7:CG:144:VAL:CG1	2.44	0.47
8:CH:68:PRO:HB2	8:CH:71:VAL:HG23	1.97	0.47
9:CI:77:VAL:HG13	22:CV:139:ARG:HG2	1.97	0.47
9:CI:108:LEU:HD22	9:CI:114:GLY:HA2	1.97	0.47
13:CM:109:HIS:HE1	13:CM:121:GLY:O	1.97	0.47
14:CN:101:ARG:HH22	14:CN:112:ASN:ND2	2.12	0.47
15:CO:54:PRO:HD2	15:CO:56:GLN:NE2	2.29	0.47
17:CQ:185:ALA:O	17:CQ:188:SER:OG	2.29	0.47
18:CR:126:ARG:HA	18:CR:140:GLU:HG2	1.97	0.47
30:DC:74:ASN:OD1	30:DC:113:LEU:HB2	2.15	0.47
31:DD:47:LEU:HA	31:DD:50:THR:HG22	1.97	0.47
34:DG:40:SER:O	34:DG:44:ARG:HG3	2.14	0.47
25:A:25:C:OP2	25:A:26:A:H2'	2.15	0.47
25:A:66:U:C4	55:H:173:PRO:HG3	2.49	0.47
25:A:304:U:H2'	25:A:305:C:H6	1.79	0.47
25:A:328:A:H2'	25:A:329:G:H8	1.79	0.47
25:A:347:G:O6	84:A:2003:OHX:N5	2.48	0.47
25:A:416:A:H4'	25:A:417:A:OP2	2.15	0.47
25:A:450:U:H3	25:A:456:A:H61	1.63	0.47
25:A:476:U:H5''	25:A:477:A:O4'	2.15	0.47
50:C:36:SER:HB2	50:C:231:LEU:HB3	1.96	0.47
51:D:44:LEU:HD21	51:D:247:ALA:HB2	1.97	0.47
52:E:101:GLN:O	52:E:104:SER:HB3	2.14	0.47
53:F:104:ASP:HB2	53:F:108:ARG:H	1.80	0.47
55:H:28:PHE:CZ	55:H:104:PRO:HG3	2.50	0.47
56:I:133:THR:HG21	56:I:162:ILE:HD11	1.97	0.47
63:P:129:LYS:HB2	63:P:129:LYS:HE3	1.58	0.47
67:T:81:ILE:HG23	67:T:82:PRO:HD2	1.96	0.47
72:Y:92:CYS:HA	72:Y:95:PHE:CD2	2.49	0.47
81:h:274:LEU:HD13	81:h:313:TRP:CD2	2.50	0.47
49:s0:195:TRP:NE1	49:s0:197:ILE:HD13	2.30	0.47
50:s1:52:THR:OG1	50:s1:55:LYS:HB3	2.15	0.47
52:s3:94:ARG:O	52:s3:101:GLN:NE2	2.39	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
54:s5:161:ASP:O	77:d8:44:VAL:HA	2.14	0.47
56:s7:38:LEU:HD23	56:s7:41:LEU:HD12	1.97	0.47
60:c1:33:ARG:NH2	60:c1:51:GLY:O	2.48	0.47
63:c4:32:ASP:OD1	63:c4:35:GLY:N	2.46	0.47
65:c6:55:VAL:HG23	65:c6:105:LEU:HG	1.95	0.47
68:c9:52:GLY:HA2	68:c9:55:TYR:HD2	1.80	0.47
74:d5:47:TYR:OH	74:d5:51:LEU:HD21	2.14	0.47
74:d5:59:TYR:CE1	74:d5:100:ILE:HG23	2.48	0.47
81:sR:95:ALA:O	81:sR:96:THR:HG22	2.14	0.47
1:1:650:C:H2'	1:1:651:G:H8	1.80	0.47
1:1:2340:U:OP2	5:k:237:LYS:HB2	2.15	0.47
1:1:2642:A:OP2	22:2:3:LYS:NZ	2.47	0.47
1:1:2723:U:OP1	22:2:87:LYS:HD3	2.14	0.47
2:3:106:U:H2'	2:3:107:C:C6	2.50	0.47
4:j:51:ASP:HB2	4:j:58:LEU:HG	1.95	0.47
6:l:181:VAL:O	6:l:182:LEU:HB3	2.15	0.47
6:l:329:PRO:HB2	9:o:45:LEU:HD12	1.95	0.47
25:6:452:A:H3'	25:6:453:U:C5	2.50	0.47
25:6:862:A:P	62:c3:20:ARG:HH21	2.37	0.47
25:6:1217:A:H5''	59:c0:44:LYS:HG3	1.97	0.47
25:6:1642:G:N3	25:6:1781:A:O2'	2.44	0.47
28:9:70:ILE:HA	28:9:82:VAL:HA	1.97	0.47
29:AA:119:GLU:O	29:AA:123:GLN:HG2	2.15	0.47
34:AF:100:ILE:O	34:AF:105:ARG:NH1	2.40	0.47
43:AO:2:ARG:NH1	25:A:1772:C:H3'	2.29	0.47
1:AR:120:G:N2	10:CJ:126:SER:O	2.48	0.47
1:AR:242:C:O2'	1:AR:243:G:O5'	2.31	0.47
1:AR:738:A:H2'	1:AR:739:G:H8	1.80	0.47
1:AR:827:A:H5''	36:DI:14:ASN:O	2.15	0.47
1:AR:2356:A:N6	1:AR:2983:C:H5	2.11	0.47
1:AR:2660:G:H5''	1:AR:2750:U:O2'	2.14	0.47
1:AR:2898:G:O6	42:DO:125:LYS:NZ	2.48	0.47
84:AR:3443:OHX:N2	84:AR:3731:OHX:N6	2.62	0.47
3:AT:67:U:H2'	3:AT:68:G:C8	2.49	0.47
3:AT:155:A:OP2	10:CJ:181:LYS:HE3	2.14	0.47
6:CF:294:GLU:CD	6:CF:294:GLU:H	2.23	0.47
9:CI:24:GLU:CD	9:CI:25:GLN:H	2.23	0.47
9:CI:96:PRO:O	9:CI:99:PRO:HD2	2.15	0.47
12:CL:169:LYS:HZ1	22:CV:159:PHE:H	1.62	0.47
17:CQ:48:PHE:CE2	17:CQ:52:LEU:HD21	2.50	0.47
20:CT:89:LEU:HD12	20:CT:90:PRO:HD2	1.97	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DH:8:TYR:CD2	35:DH:99:ARG:HG2	2.50	0.47
36:DI:8:ARG:HH21	36:DI:31:ARG:HH11	1.62	0.47
25:A:146:U:H2'	25:A:147:A:H8	1.79	0.47
25:A:1178:G:H5'	25:A:1190:C:H42	1.80	0.47
25:A:1474:G:H2'	25:A:1475:A:C8	2.50	0.47
25:A:1794:A:H1'	75:b:79:ILE:HD12	1.96	0.47
54:G:76:ARG:HB3	54:G:79:ASN:HD21	1.78	0.47
66:S:96:SER:HA	66:S:97:ASN:HA	1.61	0.47
72:Y:34:LEU:O	72:Y:39:LYS:NZ	2.48	0.47
75:b:60:PRO:C	75:b:62:TYR:H	2.23	0.47
49:s0:175:TYR:HD1	49:s0:202:TYR:CE1	2.33	0.47
50:s1:101:HIS:HA	50:s1:217:LEU:HD22	1.95	0.47
63:c4:107:ARG:HB2	63:c4:107:ARG:NH2	2.30	0.47
67:c8:30:TYR:HE2	67:c8:40:ARG:NH1	2.11	0.47
72:d3:43:PHE:C	72:d3:45:GLY:H	2.22	0.47
1:l:77:A:H5'	14:t:100:ARG:NH1	2.30	0.47
1:l:655:C:H2'	1:l:656:A:H8	1.78	0.47
1:l:1481:A:H2'	1:l:1858:A:H1'	1.96	0.47
1:l:1603:A:H61	27:8:71:THR:HG21	1.80	0.47
1:l:2352:A:H5''	18:x:83:TRP:O	2.15	0.47
1:l:2680:A:C2	13:s:24:GLY:HA2	2.50	0.47
1:l:2875:U:C2	86:l:4216:7MB:BR	3.23	0.47
1:l:3113:A:OP1	11:q:73:SER:OG	2.32	0.47
5:k:350:ALA:C	5:k:352:GLU:H	2.23	0.47
6:l:338:LYS:O	6:l:340:GLY:N	2.48	0.47
9:o:59:GLU:HG2	9:o:63:ILE:HD11	1.96	0.47
11:q:8:GLN:HB2	11:q:55:VAL:HG23	1.96	0.47
24:l2:49:LEU:HA	24:l2:49:LEU:HD23	1.68	0.47
25:6:761:G:OP1	58:s9:54:ARG:NH1	2.47	0.47
25:6:836:U:H2'	25:6:837:G:H8	1.80	0.47
25:6:895:G:O2'	63:c4:37:GLU:HA	2.15	0.47
25:6:1512:G:N3	25:6:1518:C:O2'	2.46	0.47
25:6:1655:A:H5'	43:DP:24:SER:OG	2.14	0.47
25:6:1678:A:OP1	57:s8:59:ARG:NH2	2.41	0.47
35:AG:21:ARG:HH11	35:AG:21:ARG:HG3	1.80	0.47
1:AR:563:U:H2'	1:AR:564:G:C8	2.49	0.47
1:AR:1456:A:N7	33:DF:26:LYS:HE2	2.29	0.47
1:AR:2308:C:O2	84:AR:3737:OHX:N4	2.48	0.47
84:AR:3443:OHX:N2	84:AR:3731:OHX:N4	2.63	0.47
3:AT:2:A:OP2	84:AT:202:OHX:N1	2.48	0.47
6:CF:354:VAL:O	6:CF:358:THR:HG23	2.14	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:132:PRO:HA	9:CI:229:PHE:CG	2.50	0.47
13:CM:145:LYS:HE2	13:CM:145:LYS:HB2	1.60	0.47
33:DF:26:LYS:HD2	33:DF:26:LYS:HA	1.68	0.47
34:DG:102:ALA:O	34:DG:106:VAL:HG13	2.14	0.47
25:A:761:G:N7	84:A:1939:OHX:N1	2.63	0.47
25:A:996:U:O2	25:A:1008:G:N2	2.40	0.47
25:A:1231:U:H4'	25:A:1258:U:H6	1.78	0.47
25:A:1474:G:H2'	25:A:1475:A:H8	1.80	0.47
25:A:1553:G:N2	25:A:1555:A:H3'	2.29	0.47
53:F:180:LEU:HD23	53:F:180:LEU:HA	1.74	0.47
54:G:94:THR:HG22	54:G:114:ILE:HG13	1.96	0.47
69:V:71:PRO:O	78:e:40:ARG:NH2	2.44	0.47
71:X:24:GLN:OE1	76:c:4:VAL:HA	2.15	0.47
51:s2:66:PHE:O	51:s2:70:ASP:HB2	2.15	0.47
52:s3:115:ILE:HD12	52:s3:116:ARG:H	1.79	0.47
53:s4:171:ASP:CG	53:s4:172:PHE:H	2.23	0.47
57:s8:84:HIS:CE1	57:s8:90:LEU:HD12	2.50	0.47
58:s9:93:LEU:HA	58:s9:96:VAL:HG13	1.97	0.47
63:c4:71:CYS:HB3	63:c4:76:ILE:HB	1.97	0.47
73:d4:52:LYS:HA	73:d4:55:VAL:HG22	1.96	0.47
1:1:143:G:H4'	3:4:145:U:OP1	2.14	0.47
1:1:627:U:H4'	1:1:1399:A:O2'	2.15	0.47
1:1:1019:G:H2'	1:1:1020:G:O4'	2.15	0.47
1:1:1807:G:C6	1:1:1808:G:N1	2.83	0.47
1:1:2225:U:H2'	1:1:2226:U:C6	2.49	0.47
1:1:2714:G:H4'	1:1:2715:A:O5'	2.14	0.47
1:1:3187:A:H5''	15:u:8:LYS:HE2	1.97	0.47
1:1:3275:U:O4'	35:AG:66:VAL:HG21	2.15	0.47
1:1:3358:U:H2'	1:1:3359:A:O4'	2.15	0.47
5:k:123:TYR:CZ	5:k:124:LYS:HG3	2.50	0.47
5:k:169:THR:CG2	5:k:171:LEU:H	2.28	0.47
7:m:153:THR:HG23	7:m:160:PHE:HZ	1.80	0.47
10:p:246:MET:HA	10:p:249:ARG:HB3	1.97	0.47
12:r:210:ILE:HG23	12:r:217:PHE:CE2	2.49	0.47
25:6:592:A:H2'	25:6:593:U:O4'	2.15	0.47
28:9:56:VAL:HB	28:9:70:ILE:HD11	1.96	0.47
29:AA:46:ILE:HD11	29:AA:48:ARG:C	2.40	0.47
1:AR:847:A:H2'	1:AR:848:A:C8	2.50	0.47
1:AR:992:A:N6	1:AR:993:G:O6	2.48	0.47
1:AR:1347:U:H4'	6:CF:305:ALA:HB2	1.96	0.47
1:AR:1368:U:O2'	1:AR:1369:A:H5'	2.15	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1666:G:H2'	1:AR:1667:A:C8	2.50	0.47
1:AR:2282:U:O2	1:AR:2310:U:H4'	2.14	0.47
1:AR:2585:G:N3	1:AR:2585:G:H2'	2.30	0.47
5:CE:227:GLU:OE2	5:CE:270:ARG:NE	2.46	0.47
13:CM:35:LYS:HB2	13:CM:35:LYS:HE3	1.56	0.47
18:CR:70:THR:HG21	18:CR:81:ALA:HB3	1.96	0.47
34:DG:7:PRO:HG2	34:DG:62:LYS:HB3	1.97	0.47
34:DG:79:VAL:O	34:DG:83:GLU:HG3	2.15	0.47
36:DI:42:PRO:HB2	36:DI:51:LEU:HD21	1.97	0.47
25:A:882:U:H2'	25:A:883:C:H6	1.80	0.47
25:A:1151:A:H2'	25:A:1152:A:H8	1.80	0.47
25:A:1157:A:H2'	25:A:1160:A:N7	2.30	0.47
56:I:73:VAL:C	56:I:75:THR:H	2.21	0.47
56:I:114:ARG:O	56:I:117:THR:HG22	2.15	0.47
58:K:31:ALA:HA	58:K:36:LEU:HD12	1.97	0.47
59:L:59:PHE:CZ	59:L:62:GLN:HA	2.50	0.47
63:P:17:ALA:HB3	63:P:81:VAL:HB	1.96	0.47
71:X:31:SER:H	71:X:34:ILE:HD12	1.80	0.47
78:e:21:CYS:H	78:e:25:SER:HA	1.80	0.47
81:h:273:ASP:CG	81:h:275:ARG:HH22	2.23	0.47
55:s6:20:ASP:OD1	55:s6:22:HIS:HB2	2.15	0.47
55:s6:56:ASN:HA	55:s6:61:PHE:O	2.15	0.47
56:s7:111:LYS:HB3	56:s7:112:ARG:H	1.57	0.47
81:sR:260:ILE:HB	81:sR:274:LEU:HB2	1.96	0.47
1:1:207:U:H2'	1:1:208:C:C6	2.50	0.46
1:1:409:A:OP2	84:1:3594:OHX:N5	2.48	0.46
1:1:1566:A:H61	1:1:1571:A:H61	1.63	0.46
1:1:2122:G:H2'	1:1:2123:G:C8	2.48	0.46
1:1:2578:U:OP1	84:1:3682:OHX:N5	2.48	0.46
1:1:2771:U:O2'	1:1:2772:C:O4'	2.31	0.46
5:k:11:HIS:CE1	5:k:235:THR:HA	2.50	0.46
6:l:148:ILE:HA	6:l:149:PRO:C	2.40	0.46
12:r:96:VAL:HA	12:r:125:LEU:HD23	1.97	0.46
23:5:53:ALA:O	23:5:68:THR:HG22	2.15	0.46
25:6:71:A:N6	55:s6:169:TYR:OH	2.46	0.46
25:6:86:A:H2'	25:6:87:C:C6	2.47	0.46
25:6:334:G:O6	57:s8:5:ARG:NH2	2.48	0.46
25:6:447:U:C4	25:6:448:C:C4	3.03	0.46
25:6:821:U:H2'	25:6:822:U:O4'	2.15	0.46
25:6:1071:U:H2'	25:6:1072:C:C6	2.49	0.46
25:6:1255:G:H4'	25:6:1256:A:OP1	2.15	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1393:C:H2'	25:6:1394:G:C8	2.50	0.46
25:6:1661:U:H2'	25:6:1662:G:H8	1.79	0.46
32:AD:100:ILE:HG13	32:AD:101:LEU:N	2.30	0.46
44:AP:3:ASN:HA	44:AP:92:GLU:O	2.14	0.46
45:AQ:53:GLY:HA2	45:AQ:66:GLY:O	2.14	0.46
46:i:94:HIS:O	25:A:1274:C:N4	2.46	0.46
1:AR:339:C:OP1	1:AR:1380:G:O2'	2.32	0.46
1:AR:508:U:O4	84:AR:3524:OHX:N3	2.48	0.46
1:AR:602:A:H2'	1:AR:603:A:C8	2.49	0.46
1:AR:916:G:C6	4:CD:207:VAL:HG21	2.50	0.46
1:AR:1922:A:H2'	1:AR:1923:C:O4'	2.15	0.46
1:AR:2155:G:H2'	1:AR:2156:C:C6	2.50	0.46
1:AR:2352:A:H5''	18:CR:83:TRP:O	2.15	0.46
1:AR:3024:A:OP1	84:AR:3441:OHX:N5	2.48	0.46
4:CD:234:LYS:HD3	4:CD:238:ILE:HG21	1.97	0.46
5:CE:256:HIS:HA	5:CE:257:PRO:C	2.40	0.46
7:CG:64:ILE:HD13	7:CG:144:VAL:HG21	1.96	0.46
8:CH:2:SER:HA	34:DG:81:ASP:OD2	2.15	0.46
8:CH:55:LEU:HB2	8:CH:64:LEU:HD13	1.97	0.46
10:CJ:190:VAL:HG13	10:CJ:192:GLN:HG2	1.97	0.46
13:CM:98:ALA:HA	13:CM:156:LYS:HB2	1.97	0.46
21:CU:13:ARG:HE	21:CU:13:ARG:HB3	1.61	0.46
37:DJ:93:THR:OG1	37:DJ:96:GLU:HG2	2.15	0.46
38:DK:43:LEU:O	38:DK:47:ILE:HG13	2.14	0.46
25:A:400:A:N6	57:J:29:LEU:HD12	2.30	0.46
25:A:413:U:H2'	25:A:414:C:H6	1.80	0.46
25:A:474:A:N6	25:A:595:G:OP1	2.48	0.46
25:A:1038:U:C2	25:A:1094:G:N2	2.83	0.46
25:A:1330:G:N2	52:E:204:ASP:OD1	2.41	0.46
25:A:1615:C:H4'	25:A:1616:G:O5'	2.16	0.46
25:A:1652:C:H2'	25:A:1653:C:C6	2.51	0.46
49:B:9:LEU:HD23	49:B:54:TRP:CG	2.50	0.46
49:B:123:VAL:HG11	49:B:133:ILE:HD11	1.97	0.46
51:s2:143:TYR:HE1	51:s2:149:GLY:O	1.99	0.46
52:s3:33:GLY:HA3	52:s3:53:THR:OG1	2.15	0.46
54:s5:113:ILE:HD13	54:s5:190:ILE:HG21	1.96	0.46
56:s7:49:ILE:O	56:s7:57:ALA:N	2.39	0.46
56:s7:74:GLN:HG2	56:s7:131:PHE:HD2	1.80	0.46
82:c7:71:PHE:CE2	82:c7:74:GLN:HB2	2.50	0.46
76:d7:2:VAL:O	76:d7:3:LEU:HB2	2.15	0.46
79:e0:50:VAL:HG12	79:e0:54:ARG:HB2	1.96	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:310:U:H2'	1:1:311:C:O4'	2.14	0.46
1:1:313:A:C6	1:1:314:U:C4	3.03	0.46
1:1:514:G:N3	6:l:341:SER:OG	2.36	0.46
1:1:1677:G:OP1	23:5:97:SER:OG	2.30	0.46
1:1:1834:U:OP2	41:AM:10:LYS:HE3	2.14	0.46
1:1:3140:G:OP1	5:k:20:LYS:NZ	2.45	0.46
3:4:24:G:OP2	28:9:13:ARG:HD3	2.14	0.46
3:4:131:A:H5''	27:8:93:TYR:CE2	2.50	0.46
13:s:109:HIS:HD2	13:s:114:ILE:HG21	1.81	0.46
23:5:33:TYR:CE2	23:5:63:VAL:HG21	2.50	0.46
25:6:36:C:H2'	25:6:37:U:C6	2.50	0.46
25:6:249:U:H3	60:c1:17:PRO:HG2	1.80	0.46
29:AA:68:ILE:O	29:AA:115:LYS:HE2	2.15	0.46
31:AC:8:THR:HG23	31:AC:10:HIS:H	1.79	0.46
33:AE:55:LEU:HB2	33:AE:95:PRO:HD3	1.97	0.46
42:AN:96:CYS:HA	42:AN:121:LEU:HD23	1.97	0.46
46:i:94:HIS:HE2	25:A:1638:G:P	2.37	0.46
1:AR:31:C:H2'	1:AR:32:U:O4'	2.15	0.46
1:AR:591:G:N2	8:CH:18:LEU:HB3	2.30	0.46
1:AR:1298:C:O3'	42:DO:113:ARG:NH1	2.48	0.46
1:AR:1482:A:H4'	1:AR:1483:G:OP2	2.14	0.46
1:AR:1852:G:H1'	39:DL:9:GLY:HA3	1.97	0.46
1:AR:1915:A:H2'	1:AR:1916:U:C6	2.49	0.46
1:AR:1942:U:OP2	20:CT:74:ARG:NH1	2.39	0.46
1:AR:2263:C:O2'	1:AR:2264:U:O5'	2.33	0.46
1:AR:2384:A:N1	17:CQ:96:LYS:HE2	2.30	0.46
1:AR:2773:C:H2'	1:AR:2774:C:H6	1.80	0.46
1:AR:2971:A:H3'	1:AR:2971:A:N3	2.30	0.46
4:CD:108:PRO:HG2	45:DR:86:LEU:HD13	1.97	0.46
4:CD:133:TYR:HE2	4:CD:135:ILE:HD11	1.80	0.46
5:CE:49:TYR:HE2	5:CE:177:HIS:CE1	2.33	0.46
6:CF:317:PRO:C	6:CF:319:LYS:N	2.73	0.46
10:CJ:138:HIS:NE2	10:CJ:142:LEU:HD11	2.30	0.46
27:CZ:121:LYS:HD3	27:CZ:123:TYR:CZ	2.50	0.46
25:A:463:U:H2'	25:A:464:A:C8	2.50	0.46
25:A:1018:U:H2'	25:A:1019:A:H8	1.80	0.46
25:A:1018:U:OP1	62:O:107:LYS:NZ	2.47	0.46
25:A:1237:G:H1	25:A:1248:C:H42	1.64	0.46
50:C:89:ASP:N	50:C:89:ASP:OD1	2.48	0.46
51:D:129:ILE:O	51:D:133:LYS:HG2	2.15	0.46
54:G:144:GLU:OE1	54:G:225:ARG:NH2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
60:M:4:GLU:O	60:M:5:LEU:HD12	2.14	0.46
61:N:66:VAL:HG11	61:N:71:ILE:HD12	1.96	0.46
64:Q:127:ARG:HB3	64:Q:130:ARG:HG3	1.97	0.46
67:T:35:ILE:HB	67:T:38:VAL:HG22	1.97	0.46
49:s0:69:ASN:HB3	49:s0:71:GLU:CD	2.41	0.46
49:s0:180:GLU:HA	49:s0:183:ARG:HD3	1.96	0.46
53:s4:11:ARG:HB2	53:s4:27:TYR:C	2.40	0.46
56:s7:49:ILE:HG13	56:s7:57:ALA:HB3	1.96	0.46
1:1:194:U:H2'	1:1:195:U:C6	2.49	0.46
1:1:209:A:H4'	1:1:211:A:C8	2.50	0.46
1:1:541:U:O4	84:1:3725:OHX:N2	2.49	0.46
1:1:860:G:OP2	4:j:181:LYS:NZ	2.37	0.46
1:1:2534:G:H2'	1:1:2535:A:H8	1.79	0.46
1:1:2626:A:C4	1:1:2644:C:H5'	2.51	0.46
13:s:150:ASN:C	13:s:152:HIS:H	2.23	0.46
21:0:155:ARG:NH2	21:0:172:TYR:HA	2.31	0.46
25:6:66:U:C6	55:s6:173:PRO:HG3	2.50	0.46
25:6:358:U:O2'	25:6:360:A:H5''	2.15	0.46
25:6:567:A:H4'	79:e0:13:LYS:HB2	1.97	0.46
25:6:752:A:H3'	53:s4:187:ARG:HH12	1.81	0.46
25:6:855:A:C2	25:6:857:U:H1'	2.50	0.46
25:6:1175:U:H2'	25:6:1176:G:C8	2.49	0.46
25:6:1552:U:H2'	25:6:1553:G:O4'	2.15	0.46
32:AD:27:TYR:O	32:AD:31:VAL:HG23	2.15	0.46
34:AF:4:LEU:HD12	34:AF:5:PRO:HD2	1.96	0.46
43:AO:9:ARG:NH2	25:A:1642:G:O3'	2.48	0.46
45:AQ:33:GLN:HB3	45:AQ:69:TYR:HB3	1.97	0.46
46:i:110:TRP:HB3	52:E:150:MET:HE3	1.98	0.46
1:AR:360:G:OP1	39:DL:25:ARG:NH1	2.49	0.46
1:AR:715:A:OP2	30:DC:114:GLY:N	2.45	0.46
1:AR:2312:A:OP2	84:AR:3478:OHX:N2	2.49	0.46
1:AR:2617:U:H3'	31:DD:3:LYS:HD3	1.97	0.46
1:AR:2773:C:H2'	1:AR:2774:C:C6	2.50	0.46
10:CJ:205:ALA:HA	10:CJ:208:GLU:HB2	1.96	0.46
12:CL:87:LEU:HD23	12:CL:138:VAL:CG2	2.44	0.46
27:CZ:34:LEU:HD13	27:CZ:35:PRO:O	2.14	0.46
30:DC:125:VAL:O	30:DC:146:GLU:N	2.32	0.46
39:DL:28:HIS:CD2	39:DL:31:LYS:HE2	2.50	0.46
25:A:407:A:H5'	55:H:94:ARG:HH21	1.80	0.46
25:A:577:G:H3'	25:A:577:G:H8	1.80	0.46
25:A:941:A:N7	25:A:942:G:H1'	2.30	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1218:G:N2	25:A:1444:A:OP2	2.32	0.46
25:A:1583:A:N1	25:A:1611:A:H5''	2.30	0.46
25:A:1623:C:H2'	25:A:1624:C:C6	2.50	0.46
49:B:163:ASN:OD1	49:B:165:ARG:HB2	2.15	0.46
53:F:187:ARG:O	53:F:187:ARG:HD3	2.15	0.46
59:L:3:MET:SD	59:L:8:ARG:NH1	2.89	0.46
72:Y:43:PHE:C	72:Y:45:GLY:H	2.23	0.46
1:1:92:G:H5'	1:1:93:C:C5'	2.46	0.46
1:1:409:A:OP2	84:1:3594:OHX:N3	2.48	0.46
1:1:696:C:OP1	6:l:272:VAL:HG23	2.16	0.46
1:1:2419:A:H2'	1:1:2420:C:H6	1.80	0.46
1:1:2609:A:H2'	1:1:2610:G:C8	2.50	0.46
1:1:2850:G:O6	84:1:3613:OHX:N6	2.48	0.46
5:k:383:LEU:N	5:k:386:ASP:OD2	2.33	0.46
6:l:6:VAL:N	6:l:20:LEU:O	2.48	0.46
7:m:143:LYS:HG3	7:m:172:TYR:HD2	1.80	0.46
9:o:84:VAL:HG21	9:o:127:LEU:HD11	1.98	0.46
14:t:143:ALA:O	14:t:146:PRO:HD3	2.16	0.46
21:0:71:LYS:O	21:0:73:LYS:NZ	2.45	0.46
22:2:9:SER:O	22:2:10:ARG:HB2	2.16	0.46
24:l2:17:LEU:O	24:l2:52:ALA:N	2.38	0.46
24:l2:45:ARG:HD2	24:l2:46:LEU:H	1.79	0.46
25:6:89:G:O6	84:6:1945:OHX:N2	2.49	0.46
25:6:525:A:H2'	25:6:526:A:C8	2.49	0.46
25:6:561:G:C2	25:6:585:A:C2	3.03	0.46
25:6:624:G:H2'	25:6:625:C:C6	2.50	0.46
25:6:1699:G:O2'	25:6:1702:A:N6	2.48	0.46
37:AI:86:ARG:O	37:AI:90:ARG:HG2	2.16	0.46
38:AJ:90:MET:HE3	38:AJ:90:MET:HA	1.98	0.46
1:AR:92:G:H5'	1:AR:93:C:H5''	1.96	0.46
1:AR:126:U:OP1	16:CP:144:ARG:NH1	2.43	0.46
1:AR:217:U:O2	28:DA:103:LYS:NZ	2.31	0.46
1:AR:352:A:H61	1:AR:365:A:H5''	1.80	0.46
1:AR:985:U:H2'	1:AR:986:U:H6	1.78	0.46
1:AR:1495:U:H5	1:AR:1835:A:N1	2.14	0.46
1:AR:1944:U:H2'	1:AR:1945:A:C8	2.51	0.46
2:AS:39:C:H5'	48:sM:25:ILE:HG12	1.96	0.46
5:CE:58:ARG:NH1	5:CE:352:GLU:OE1	2.47	0.46
5:CE:221:THR:HG22	5:CE:222:LYS:O	2.15	0.46
6:CF:311:HIS:CE1	6:CF:314:LYS:HA	2.50	0.46
9:CI:214:TRP:CE2	9:CI:219:LYS:HD2	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:55:ASN:O	12:CL:131:ILE:HG12	2.16	0.46
19:CS:34:THR:HG22	19:CS:49:LEU:HD21	1.97	0.46
26:CY:47:ARG:O	26:CY:55:PHE:HD2	1.99	0.46
32:DE:26:GLY:O	32:DE:30:THR:HG23	2.16	0.46
48:sM:68:ARG:HB2	67:c8:129:TRP:O	2.15	0.46
25:A:730:G:H2'	25:A:730:G:N3	2.31	0.46
49:B:109:ASN:OD1	49:B:111:ILE:HG22	2.15	0.46
50:C:181:LEU:O	50:C:185:THR:N	2.41	0.46
56:I:99:LEU:HD12	56:I:116:ARG:HG2	1.98	0.46
49:s0:185:ARG:HG2	70:d1:45:ALA:O	2.16	0.46
53:s4:126:VAL:HG13	53:s4:158:ASP:O	2.14	0.46
61:c2:103:LEU:HD22	61:c2:103:LEU:H	1.79	0.46
1:1:114:A:H2'	1:1:115:A:O4'	2.16	0.46
1:1:1348:U:O2'	6:l:287:THR:HG22	2.15	0.46
1:1:1523:U:OP1	1:1:1607:U:N3	2.48	0.46
1:1:1615:C:H2'	1:1:1616:U:C6	2.51	0.46
1:1:2416:U:H2'	1:1:2417:U:H6	1.78	0.46
1:1:2768:U:H2'	1:1:2769:A:C8	2.51	0.46
1:1:3276:G:H1	35:AG:60:ARG:HH12	1.63	0.46
3:4:30:C:H2'	3:4:31:G:H8	1.81	0.46
5:k:169:THR:HG22	5:k:171:LEU:H	1.80	0.46
6:l:64:SER:HA	6:l:75:PRO:HA	1.97	0.46
7:m:258:LYS:HA	7:m:258:LYS:HD3	1.44	0.46
15:u:121:MET:O	15:u:125:LYS:HG2	2.16	0.46
20:z:104:ARG:HH21	20:z:108:LYS:HD2	1.81	0.46
25:6:1255:G:O2'	25:6:1256:A:O5'	2.28	0.46
25:6:1504:G:OP1	68:c9:97:SER:OG	2.25	0.46
25:6:1535:U:O2'	25:6:1536:G:O5'	2.33	0.46
25:6:1793:G:N1	75:d6:75:VAL:HB	2.31	0.46
34:AF:79:VAL:HG13	34:AF:111:ARG:HG2	1.98	0.46
38:AJ:43:LEU:O	38:AJ:47:ILE:HG13	2.16	0.46
46:i:96:ARG:HG2	25:A:1274:C:H5	1.79	0.46
1:AR:607:A:OP1	8:CH:24:ALA:N	2.41	0.46
1:AR:916:G:N7	1:AR:924:G:C5	2.83	0.46
1:AR:1740:U:H4'	1:AR:1741:A:H5'	1.97	0.46
1:AR:1913:A:N3	1:AR:2120:A:H2'	2.31	0.46
1:AR:2211:U:OP2	84:AR:3721:OHX:N1	2.49	0.46
1:AR:2544:U:H2'	1:AR:2545:C:C6	2.51	0.46
1:AR:2699:G:OP2	84:AR:3432:OHX:N1	2.48	0.46
1:AR:2756:C:O4'	22:CV:49:GLN:HG2	2.16	0.46
1:AR:3056:U:OP2	84:AR:3442:OHX:N2	2.48	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:3186:A:O2'	11:CK:42:ASP:HA	2.15	0.46
3:AT:100:U:OP2	84:AT:205:OHX:N1	2.48	0.46
5:CE:305:ILE:HG12	5:CE:321:PHE:CZ	2.51	0.46
6:CF:30:ILE:O	6:CF:32:PRO:HD3	2.15	0.46
11:CK:80:THR:HG22	11:CK:84:LYS:HD2	1.97	0.46
17:CQ:28:LEU:HD22	17:CQ:94:ARG:NH1	2.29	0.46
24:CX:87:ARG:HH12	24:CX:137:VAL:HG21	1.79	0.46
39:DL:52:LYS:HB3	39:DL:56:ARG:NH1	2.30	0.46
25:A:452:A:H3'	25:A:453:U:H6	1.78	0.46
25:A:978:A:O2'	25:A:1787:C:O2	2.31	0.46
25:A:1235:C:H5'	80:g:146:SER:HB2	1.97	0.46
25:A:1366:U:O2'	68:U:7:ARG:NH1	2.42	0.46
25:A:1535:U:O2'	25:A:1536:G:H5''	2.15	0.46
25:A:1552:U:O2'	25:A:1597:A:N3	2.45	0.46
51:D:140:ARG:HH22	51:D:228:ASN:ND2	2.09	0.46
54:G:42:LEU:HB2	54:G:46:TRP:O	2.15	0.46
65:R:92:TYR:O	65:R:96:TYR:HB2	2.14	0.46
80:g:97:LYS:O	80:g:98:VAL:HG12	2.16	0.46
54:s5:41:LYS:HE2	54:s5:41:LYS:HB3	1.62	0.46
55:s6:55:GLY:N	55:s6:63:MET:HE3	2.31	0.46
74:d5:92:ILE:HD11	74:d5:100:ILE:HG22	1.96	0.46
83:e1:121:CYS:CB	83:e1:130:VAL:HG11	2.45	0.46
1:1:7:C:H2'	1:1:8:C:C6	2.51	0.46
1:1:1100:U:H2'	1:1:1101:G:O4'	2.16	0.46
1:1:2392:C:H5''	1:1:2393:G:OP2	2.16	0.46
1:1:2532:U:H3	1:1:2547:A:H61	1.64	0.46
1:1:2754:G:O2'	1:1:2755:C:OP1	2.31	0.46
5:k:53:MET:HE2	5:k:77:THR:HG22	1.98	0.46
6:l:181:VAL:HG21	6:l:224:GLY:HA3	1.97	0.46
7:m:34:LYS:HA	22:2:27:LEU:HD11	1.97	0.46
9:o:79:ALA:HB2	22:2:138:SER:H	1.81	0.46
11:q:87:LYS:HE3	11:q:145:VAL:HG11	1.97	0.46
12:r:53:VAL:HG22	12:r:134:ILE:HG12	1.97	0.46
16:v:73:ARG:C	16:v:75:VAL:HG22	2.40	0.46
16:v:112:ASN:ND2	16:v:113:LEU:HD22	2.30	0.46
17:w:11:GLY:O	17:w:14:HIS:HB2	2.16	0.46
18:x:24:VAL:HA	18:x:86:LYS:HE2	1.97	0.46
18:x:116:HIS:O	18:x:149:VAL:N	2.46	0.46
25:6:336:G:H2'	25:6:338:C:H5	1.81	0.46
29:AA:58:GLY:O	29:AA:61:LYS:HB2	2.15	0.46
32:AD:13:LYS:HB3	32:AD:100:ILE:CG2	2.44	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:383:G:O6	84:AR:3571:OHX:N3	2.47	0.46
1:AR:610:G:C8	6:CF:312:VAL:HG21	2.51	0.46
1:AR:1911:A:H2	1:AR:2122:G:C8	2.33	0.46
1:AR:2148:U:O2'	4:CD:182:ALA:HB2	2.16	0.46
1:AR:2196:C:H2'	1:AR:2242:A:H61	1.81	0.46
1:AR:2352:A:OP1	18:CR:82:ARG:HB3	2.16	0.46
1:AR:2653:C:OP1	44:DQ:89:LYS:HB2	2.15	0.46
1:AR:2794:G:N7	84:AR:3490:OHX:N1	2.64	0.46
1:AR:3099:C:O2'	1:AR:3100:U:H5'	2.16	0.46
6:CF:292:SER:OG	6:CF:293:SER:N	2.49	0.46
7:CG:233:ALA:O	7:CG:236:LEU:HB2	2.15	0.46
8:CH:76:LEU:HD11	8:CH:141:VAL:HG21	1.97	0.46
20:CT:165:LYS:C	20:CT:167:ARG:H	2.23	0.46
24:CX:93:LEU:HA	26:CX:20:LEU:O	2.16	0.46
32:DE:34:LEU:HD12	32:DE:34:LEU:HA	1.64	0.46
44:DQ:23:HIS:CE1	44:DQ:74:CYS:HB2	2.50	0.46
25:A:568:G:H5'	72:Y:89:ASN:O	2.16	0.46
25:A:577:G:H3'	25:A:577:G:C8	2.51	0.46
25:A:1202:A:H2'	25:A:1203:A:H5''	1.98	0.46
25:A:1317:C:H2'	25:A:1318:G:O4'	2.15	0.46
25:A:1474:G:OP2	54:G:109:LYS:NZ	2.46	0.46
25:A:1610:G:H5''	54:G:107:LYS:HB2	1.96	0.46
25:A:1681:A:H1'	55:H:66:GLY:HA2	1.98	0.46
49:B:117:GLU:OE2	51:D:39:THR:HA	2.15	0.46
50:C:97:LEU:HG	50:C:232:HIS:CE1	2.50	0.46
50:C:128:LYS:HE3	50:C:132:ASP:OD1	2.15	0.46
54:G:76:ARG:NH2	65:R:120:ASP:OD1	2.49	0.46
58:K:119:ALA:HA	58:K:124:HIS:HD2	1.80	0.46
75:b:19:LYS:HE3	75:b:19:LYS:HB2	1.77	0.46
81:h:19:TRP:CD2	81:h:306:THR:HG22	2.50	0.46
62:c3:4:MET:HG2	62:c3:5:HIS:CD2	2.50	0.46
67:c8:121:ALA:O	67:c8:125:ILE:HG13	2.15	0.46
77:d8:32:PHE:CE1	77:d8:40:ILE:HD13	2.51	0.46
1:1:174:C:H2'	1:1:175:C:C6	2.50	0.46
1:1:272:G:H1'	38:AJ:82:ARG:NH1	2.29	0.46
1:1:1829:G:O6	84:1:3553:OHX:N6	2.49	0.46
1:1:2651:G:H5''	1:1:2652:U:O4'	2.16	0.46
5:k:308:MET:HB2	5:k:363:SER:HB2	1.98	0.46
6:l:112:LYS:HB2	6:l:112:LYS:HE3	1.70	0.46
9:o:83:LEU:HD21	9:o:116:PHE:HB3	1.98	0.46
9:o:160:ARG:HD2	9:o:203:TRP:NE1	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:q:92:TYR:N	11:q:92:TYR:CD1	2.83	0.46
12:r:9:TYR:CG	12:r:97:LEU:HD13	2.51	0.46
15:u:24:LYS:HG2	15:u:62:GLN:O	2.15	0.46
25:6:57:G:OP1	73:d4:112:LYS:NZ	2.28	0.46
25:6:151:G:H2'	25:6:152:U:C6	2.51	0.46
25:6:255:U:H2'	25:6:256:A:C8	2.51	0.46
25:6:654:C:H2'	25:6:655:G:C8	2.51	0.46
25:6:1783:C:H2'	25:6:1784:C:H6	1.80	0.46
29:AA:14:VAL:HG22	36:AH:86:LYS:HG2	1.97	0.46
40:AL:24:THR:HG23	40:AL:44:LYS:HB2	1.97	0.46
45:AQ:55:TRP:O	45:AQ:64:VAL:N	2.42	0.46
1:AR:242:C:HO2'	1:AR:243:G:C5'	2.29	0.46
1:AR:744:A:H2'	1:AR:745:C:O4'	2.15	0.46
1:AR:1424:C:H2'	1:AR:1425:U:O4'	2.15	0.46
1:AR:2111:G:H4'	1:AR:2112:U:OP2	2.16	0.46
1:AR:2674:A:OP2	84:AR:3656:OHX:N3	2.49	0.46
1:AR:2960:C:H2'	1:AR:2961:G:C8	2.51	0.46
1:AR:2987:A:H5''	17:CQ:68:ARG:HH12	1.81	0.46
1:AR:3155:U:H3'	1:AR:3156:U:H4'	1.98	0.46
1:AR:3189:G:H2'	1:AR:3190:C:C6	2.50	0.46
1:AR:3207:U:O2'	1:AR:3208:G:H3'	2.15	0.46
2:AS:28:C:H1'	2:AS:55:A:H61	1.80	0.46
2:AS:112:G:H2'	2:AS:113:C:C6	2.51	0.46
6:CF:186:LYS:HB2	6:CF:200:THR:HG22	1.98	0.46
7:CG:79:TYR:HB2	7:CG:81:HIS:CE1	2.51	0.46
10:CJ:178:ALA:HB2	10:CJ:218:ILE:HG23	1.97	0.46
12:CL:80:SER:CB	12:CL:144:ASN:HD21	2.28	0.46
19:CS:79:LYS:HA	19:CS:136:ASN:OD1	2.16	0.46
22:CV:82:ASN:O	31:DD:21:ILE:HA	2.14	0.46
39:DL:17:THR:HG22	39:DL:18:LEU:H	1.80	0.46
45:DR:49:ARG:HB2	45:DR:55:TRP:CZ3	2.50	0.46
25:A:89:G:C6	25:A:90:C:C4	3.04	0.46
25:A:320:U:H2'	25:A:321:C:C6	2.51	0.46
25:A:848:C:H2'	25:A:849:C:H6	1.80	0.46
25:A:876:G:H2'	25:A:943:C:O2	2.15	0.46
51:D:227:PRO:HA	51:D:230:TRP:CD2	2.51	0.46
60:M:5:LEU:C	60:M:7:VAL:N	2.73	0.46
60:M:53:TYR:HD1	60:M:55:ASP:H	1.62	0.46
66:S:43:SER:OG	66:S:46:LEU:HB2	2.16	0.46
68:U:14:PHE:CD1	68:U:63:ARG:HD3	2.51	0.46
81:h:105:GLY:O	81:h:132:LYS:HE3	2.14	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s0:65:ALA:C	49:s0:67:ILE:H	2.23	0.46
49:s0:177:LEU:O	49:s0:181:VAL:HG13	2.15	0.46
49:s0:195:TRP:CD2	49:s0:197:ILE:HB	2.49	0.46
51:s2:87:GLN:HG2	51:s2:96:THR:HB	1.97	0.46
52:s3:142:LEU:HD23	52:s3:148:LYS:HB2	1.98	0.46
55:s6:179:VAL:HA	55:s6:183:ARG:HH11	1.80	0.46
56:s7:74:GLN:HG2	56:s7:131:PHE:CD2	2.50	0.46
82:c7:50:ILE:O	82:c7:54:THR:HG23	2.16	0.46
69:d0:15:GLN:O	69:d0:16:GLN:HB2	2.16	0.46
81:sR:295:SER:HB3	81:sR:302:PHE:CE2	2.46	0.46
1:l:40:A:C2	30:AB:40:HIS:CE1	3.04	0.46
1:l:289:A:H4'	16:v:96:ARG:O	2.16	0.46
1:l:361:A:O3'	39:AK:45:ARG:NH2	2.48	0.46
1:l:598:A:OP1	9:o:41:ARG:NH1	2.49	0.46
1:l:1210:U:H2'	1:l:1211:U:C6	2.50	0.46
1:l:1854:C:OP1	84:l:3572:OHX:N3	2.49	0.46
84:l:3414:OHX:N2	16:v:91:GLU:OE1	2.49	0.46
7:m:106:ALA:O	7:m:110:LEU:HB2	2.15	0.46
25:6:40:A:O2'	84:6:1963:OHX:N1	2.49	0.46
25:6:1357:A:H2'	25:6:1358:G:C8	2.49	0.46
25:6:1629:G:H2'	25:6:1630:U:O4'	2.16	0.46
33:AE:19:ARG:HB3	33:AE:35:GLU:HG2	1.97	0.46
1:AR:620:U:H2'	1:AR:621:A:C4'	2.41	0.46
1:AR:748:U:H2'	1:AR:749:C:H6	1.81	0.46
1:AR:860:G:N7	4:CD:181:LYS:HB2	2.30	0.46
1:AR:1804:A:H2'	1:AR:1805:C:H6	1.81	0.46
1:AR:2339:C:P	24:CX:48:ARG:HG2	2.56	0.46
1:AR:2552:C:H5	32:DE:53:LYS:NZ	2.13	0.46
1:AR:3082:C:OP2	84:AR:3442:OHX:N4	2.49	0.46
5:CE:199:PHE:C	5:CE:201:LYS:H	2.22	0.46
5:CE:384:LYS:HG2	5:CE:384:LYS:O	2.16	0.46
6:CF:295:ILE:O	6:CF:299:ILE:HG12	2.15	0.46
12:CL:77:THR:HG23	12:CL:85:PHE:HZ	1.81	0.46
14:CN:3:ILE:HG12	30:DC:34:MET:HE2	1.97	0.46
24:CX:127:PRO:HA	24:CX:130:ALA:HB3	1.98	0.46
30:DC:126:LYS:HA	30:DC:146:GLU:O	2.16	0.46
34:DG:18:LYS:HD3	34:DG:30:GLU:CD	2.41	0.46
37:DJ:101:THR:HG23	37:DJ:104:GLN:H	1.81	0.46
25:A:400:A:H5''	57:J:25:ARG:HA	1.98	0.46
25:A:1317:C:OP2	84:A:1963:OHX:N3	2.49	0.46
25:A:1542:G:N2	25:A:1568:C:H1'	2.31	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:C:207:LEU:HB3	50:C:208:GLN:H	1.49	0.46
54:G:44:ASN:O	54:G:45:LYS:HG2	2.16	0.46
63:P:16:VAL:O	63:P:30:VAL:HA	2.15	0.46
67:T:14:ILE:O	67:T:14:ILE:HG13	2.15	0.46
67:T:35:ILE:HB	67:T:38:VAL:CG2	2.46	0.46
69:V:50:LEU:HD23	69:V:94:GLU:O	2.16	0.46
73:Z:94:TYR:HB2	73:Z:96:LEU:HG	1.97	0.46
74:a:85:LYS:HG3	74:a:86:GLU:N	2.30	0.46
51:s2:208:GLU:HG2	51:s2:212:LYS:HD2	1.97	0.46
53:s4:125:LYS:N	53:s4:142:HIS:HD2	2.00	0.46
69:d0:68:ARG:HG2	69:d0:79:TRP:CH2	2.51	0.46
69:d0:105:GLN:HA	69:d0:108:ILE:HD13	1.98	0.46
1:1:210:U:C2	1:1:230:U:H4'	2.51	0.46
1:1:1108:U:H2'	1:1:1109:U:C6	2.50	0.46
1:1:1210:U:H2'	1:1:1211:U:H6	1.81	0.46
1:1:1288:U:H2'	1:1:1289:G:C8	2.47	0.46
1:1:1316:C:C5	17:w:130:LYS:HA	2.51	0.46
1:1:1430:U:H2'	30:AB:9:ARG:HH22	1.81	0.46
1:1:1681:U:O2'	1:1:3069:G:O6	2.28	0.46
1:1:1767:C:H2'	1:1:1768:U:H6	1.81	0.46
1:1:2294:U:OP2	24:l2:71:LYS:HE2	2.16	0.46
1:1:2644:C:C2	12:r:116:ARG:HD3	2.51	0.46
1:1:3107:U:H2'	1:1:3108:G:C8	2.50	0.46
84:l:3618:OHX:N1	38:AJ:28:TYR:O	2.49	0.46
3:4:99:C:OP1	27:8:53:HIS:NE2	2.49	0.46
5:k:187:SER:O	5:k:188:ILE:C	2.59	0.46
16:v:10:LEU:HD23	38:AJ:44:VAL:HG13	1.98	0.46
21:0:1:MET:HE2	21:0:1:MET:HB3	1.78	0.46
24:l2:23:MET:HE3	24:l2:100:GLY:HA3	1.96	0.46
25:6:121:U:O2'	53:s4:33:ALA:O	2.28	0.46
25:6:200:A:H2'	25:6:201:G:C8	2.49	0.46
25:6:747:C:H4'	71:d2:80:ASN:HD21	1.80	0.46
25:6:1451:C:H2'	25:6:1452:U:H6	1.81	0.46
29:AA:108:GLU:O	29:AA:112:LYS:HG3	2.16	0.46
32:AD:78:GLY:HA2	32:AD:87:VAL:HG12	1.97	0.46
32:AD:104:LEU:HD12	32:AD:105:ALA:N	2.31	0.46
1:AR:77:A:N7	14:CN:73:ARG:NH1	2.64	0.46
1:AR:1014:U:H3	1:AR:1036:A:H61	1.64	0.46
1:AR:1807:G:C6	1:AR:1808:G:N1	2.84	0.46
1:AR:2260:U:H2'	1:AR:2261:G:C8	2.50	0.46
4:CD:45:VAL:HG12	4:CD:88:ILE:HD11	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:95:ILE:HD12	9:CI:133:TYR:CE1	2.51	0.46
15:CO:8:LYS:HB3	15:CO:9:ALA:H	1.63	0.46
26:CY:6:ASP:HB3	26:CY:11:ALA:H	1.81	0.46
33:DF:53:PRO:O	33:DF:57:GLN:HG3	2.16	0.46
48:sM:34:LYS:HD3	48:sM:34:LYS:HA	1.56	0.46
25:A:102:U:O4	25:A:360:A:H2'	2.16	0.46
25:A:231:U:O2'	25:A:232:U:H5''	2.16	0.46
25:A:1022:C:H4'	25:A:1124:A:N6	2.31	0.46
25:A:1459:C:OP2	67:T:138:THR:OG1	2.26	0.46
49:B:120:LEU:HD13	49:B:142:PRO:HB2	1.96	0.46
53:F:184:THR:HA	53:F:189:LEU:HD12	1.98	0.46
53:F:241:GLY:O	53:F:244:ILE:HG12	2.16	0.46
66:S:37:GLU:HG3	81:h:150:TRP:HE1	1.79	0.46
66:S:106:THR:O	66:S:109:LEU:HB3	2.16	0.46
73:Z:47:VAL:HG23	73:Z:48:TYR:CD2	2.51	0.46
55:s6:76:LEU:HD23	55:s6:76:LEU:HA	1.62	0.46
62:c3:13:SER:OG	62:c3:14:SER:N	2.49	0.46
81:sR:123:ILE:HG22	81:sR:133:VAL:HG22	1.97	0.46
1:1:15:C:P	27:8:42:ARG:HE	2.38	0.46
1:1:147:U:H5'	10:p:136:LEU:HB2	1.97	0.46
1:1:314:U:H2'	1:1:315:C:C6	2.50	0.46
1:1:1103:A:H2'	1:1:1103:A:N3	2.31	0.46
1:1:1230:G:N2	1:1:1279:C:N3	2.53	0.46
1:1:1699:A:H2'	1:1:1700:G:C8	2.50	0.46
1:1:1834:U:H3'	1:1:1835:A:H5'	1.97	0.46
1:1:2101:C:O2'	1:1:2102:U:H5''	2.16	0.46
1:1:2747:A:H2'	1:1:2748:A:C8	2.50	0.46
1:1:3354:U:OP1	1:1:3356:G:H5'	2.16	0.46
3:4:36:G:N2	3:4:37:A:N1	2.64	0.46
5:k:19:ARG:HG3	5:k:273:HIS:HE2	1.81	0.46
9:o:148:VAL:HG21	9:o:185:ILE:HG12	1.98	0.46
10:p:75:ILE:C	10:p:77:GLN:H	2.24	0.46
10:p:149:LYS:O	10:p:176:PRO:HG2	2.16	0.46
25:6:38:C:H2'	25:6:39:A:H5'	1.97	0.46
25:6:1488:G:H3'	25:6:1515:A:H61	1.81	0.46
25:6:1796:C:C6	75:d6:5:ARG:HB3	2.51	0.46
27:8:68:THR:HG21	37:AI:36:LEU:HD13	1.97	0.46
1:AR:295:A:N3	38:DK:82:ARG:NH1	2.64	0.46
1:AR:355:A:N1	6:CF:82:THR:OG1	2.37	0.46
1:AR:801:A:OP1	30:DC:27:LYS:NZ	2.44	0.46
1:AR:1093:A:N3	1:AR:1096:U:N3	2.64	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1346:G:N7	84:AR:3568:OHX:N2	2.63	0.46
1:AR:1592:G:OP1	36:DI:58:ARG:NH1	2.41	0.46
1:AR:2203:U:H4'	4:CD:241:ARG:HA	1.98	0.46
1:AR:2294:U:O2	1:AR:2296:A:H8	1.99	0.46
1:AR:2676:A:H4'	1:AR:2677:G:O5'	2.15	0.46
1:AR:2984:C:H2'	1:AR:2985:C:H6	1.81	0.46
3:AT:43:A:H62	39:DL:65:ARG:HH12	1.63	0.46
20:CT:43:LYS:HA	20:CT:46:LYS:HG2	1.98	0.46
22:CV:78:LYS:O	22:CV:85:LEU:N	2.36	0.46
36:DI:66:SER:OG	36:DI:69:HIS:ND1	2.48	0.46
37:DJ:10:ARG:NH1	37:DJ:60:GLU:OE1	2.46	0.46
37:DJ:31:LEU:O	37:DJ:35:LYS:N	2.49	0.46
47:p0:30:VAL:HG21	47:p0:53:MET:SD	2.56	0.46
25:A:358:U:O4	84:A:1938:OHX:N5	2.49	0.46
25:A:450:U:H2'	25:A:451:A:C8	2.51	0.46
25:A:459:G:O3'	84:A:2021:OHX:N2	2.49	0.46
25:A:1433:G:O2'	78:e:26:SER:HB2	2.16	0.46
25:A:1603:U:H2'	25:A:1604:U:C6	2.51	0.46
53:F:31:PRO:HB2	53:F:38:LEU:HD22	1.97	0.46
54:G:65:ARG:HA	54:G:67:PRO:HD3	1.98	0.46
64:Q:19:GLY:N	67:T:93:THR:O	2.42	0.46
64:Q:69:GLU:OE1	84:Q:201:OHX:N6	2.49	0.46
74:a:60:VAL:HG22	74:a:101:TYR:HB2	1.97	0.46
75:b:64:LEU:HD22	75:b:64:LEU:HA	1.79	0.46
80:g:83:LYS:O	80:g:84:VAL:HG12	2.16	0.46
50:s1:22:ASP:O	50:s1:25:THR:OG1	2.34	0.46
50:s1:183:GLN:OE1	50:s1:183:GLN:N	2.49	0.46
57:s8:136:SER:HB2	57:s8:139:ALA:HB3	1.98	0.46
64:c5:125:PRO:HB3	67:c8:129:TRP:CZ2	2.51	0.46
76:d7:31:TYR:CD1	76:d7:48:SER:HB3	2.51	0.46
77:d8:26:THR:O	77:d8:44:VAL:HG22	2.15	0.46
81:sR:37:SER:OG	81:sR:38:ARG:N	2.49	0.46
1:1:352:A:N6	1:1:365:A:H5''	2.31	0.45
1:1:817:A:N3	39:AK:11:ARG:HB3	2.31	0.45
1:1:2144:A:C4	1:1:2281:A:C6	3.04	0.45
1:1:2700:G:O2'	1:1:2705:A:N1	2.46	0.45
1:1:2718:U:OP2	84:1:3521:OHX:N3	2.49	0.45
84:1:3730:OHX:N1	84:AE:201:OHX:N4	2.64	0.45
4:j:183:GLY:O	4:j:186:PHE:HB3	2.16	0.45
5:k:167:ARG:HA	84:k:402:OHX:N4	2.32	0.45
11:q:109:ALA:HB1	11:q:111:PHE:CD1	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:736:C:H2'	25:6:737:A:H8	1.81	0.45
25:6:811:A:C5	56:s7:110:GLN:HG2	2.51	0.45
25:6:1350:U:H2'	25:6:1351:G:H8	1.81	0.45
25:6:1533:C:H4'	25:6:1539:G:H1	1.81	0.45
32:AD:76:GLU:O	32:AD:80:ALA:N	2.46	0.45
33:AE:42:LEU:HD12	33:AE:42:LEU:HA	1.81	0.45
1:AR:123:A:C6	1:AR:150:A:C5	3.04	0.45
1:AR:283:G:O6	1:AR:304:G:H1'	2.16	0.45
1:AR:1367:G:H5'	34:DG:45:ARG:HH21	1.81	0.45
1:AR:1638:A:N1	1:AR:1736:G:O2'	2.48	0.45
1:AR:1874:A:H5''	20:CT:18:GLY:HA3	1.98	0.45
1:AR:1940:G:OP1	20:CT:80:LYS:HE3	2.16	0.45
1:AR:2623:G:H2'	1:AR:2624:G:H8	1.82	0.45
1:AR:2765:C:O3'	44:DQ:39:GLY:HA3	2.16	0.45
1:AR:3065:G:H2'	1:AR:3066:U:O4'	2.16	0.45
3:AT:13:A:C6	3:AT:14:C:C4	3.04	0.45
3:AT:103:G:H8	3:AT:103:G:O5'	1.99	0.45
5:CE:347:SER:C	5:CE:349:LYS:H	2.24	0.45
11:CK:38:LEU:HD23	11:CK:38:LEU:HA	1.66	0.45
20:CT:130:ASN:C	20:CT:132:PHE:H	2.23	0.45
21:CU:42:TRP:NE1	21:CU:58:ILE:HD11	2.32	0.45
27:CZ:68:THR:HG21	37:DJ:36:LEU:HD13	1.98	0.45
41:DN:43:ASN:OD1	41:DN:45:ARG:HB2	2.16	0.45
47:p0:102:SER:OG	47:p0:103:ASN:N	2.49	0.45
48:sM:58:GLU:O	48:sM:62:ARG:HB2	2.15	0.45
25:A:704:C:H4'	25:A:705:U:OP1	2.15	0.45
25:A:995:A:H2'	25:A:996:U:O4'	2.16	0.45
25:A:1559:A:C6	67:T:134:ARG:HD2	2.51	0.45
51:D:111:VAL:O	51:D:136:VAL:HA	2.16	0.45
54:G:73:THR:HG23	65:R:114:ARG:HG2	1.97	0.45
55:H:58:LYS:O	55:H:59:GLN:HB2	2.16	0.45
55:H:64:LYS:O	55:H:100:ALA:HB2	2.15	0.45
56:I:33:GLU:H	56:I:33:GLU:CD	2.24	0.45
74:a:41:ILE:HG13	74:a:42:LEU:H	1.82	0.45
57:s8:44:HIS:O	57:s8:56:ARG:N	2.47	0.45
62:c3:76:LYS:HA	62:c3:81:ALA:HB2	1.98	0.45
71:d2:25:VAL:HG22	71:d2:65:LEU:HD21	1.98	0.45
1:1:361:A:H5'	39:AK:35:SER:OG	2.16	0.45
1:1:768:C:OP1	14:t:186:ARG:NH2	2.48	0.45
1:1:1033:U:H2'	1:1:1034:U:C6	2.51	0.45
1:1:1439:U:H2'	1:1:1440:G:C8	2.52	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1464:G:N7	84:1:3730:OHX:N6	2.64	0.45
1:1:2124:G:O2'	1:1:2125:A:H5'	2.16	0.45
1:1:2247:G:OP1	84:1:3603:OHX:N2	2.50	0.45
1:1:2765:C:O3'	44:AP:39:GLY:HA3	2.15	0.45
1:1:2904:U:H2'	1:1:2905:U:H6	1.81	0.45
1:1:3185:U:H5''	11:q:23:ARG:HH11	1.80	0.45
84:1:3404:OHX:N1	8:n:29:LYS:O	2.49	0.45
2:3:93:C:O2'	2:3:94:C:H5'	2.16	0.45
2:3:103:A:H2'	2:3:104:A:O4'	2.16	0.45
4:j:44:ILE:HD12	4:j:62:VAL:HG13	1.98	0.45
4:j:118:GLU:HG2	4:j:156:LYS:NZ	2.31	0.45
5:k:55:THR:O	5:k:56:ILE:HD12	2.16	0.45
13:s:62:ASN:ND2	44:AP:101:GLY:O	2.40	0.45
14:t:62:THR:O	14:t:66:ASN:HB3	2.16	0.45
18:x:171:ARG:H	18:x:171:ARG:HG3	1.60	0.45
20:z:138:LEU:O	20:z:142:ILE:HG13	2.16	0.45
25:6:445:A:H1'	25:6:525:A:OP1	2.16	0.45
25:6:788:A:OP2	53:s4:108:ARG:NH1	2.48	0.45
25:6:856:A:C4	56:s7:64:VAL:HG21	2.51	0.45
84:6:1911:OHX:N4	50:s1:157:GLN:OE1	2.49	0.45
1:AR:65:A:H5''	1:AR:111:C:N4	2.31	0.45
1:AR:677:A:H4'	1:AR:678:G:O5'	2.17	0.45
1:AR:1547:G:OP1	16:CP:108:ARG:NH2	2.46	0.45
5:CE:347:SER:O	5:CE:348:ARG:HB3	2.16	0.45
7:CG:51:LEU:HB3	7:CG:146:LEU:HA	1.98	0.45
9:CI:127:LEU:HD23	9:CI:127:LEU:HA	1.84	0.45
9:CI:144:ILE:O	9:CI:148:VAL:HG23	2.16	0.45
18:CR:23:ARG:HE	18:CR:125:GLN:HG3	1.81	0.45
27:CZ:80:ASN:O	27:CZ:125:ARG:HG2	2.16	0.45
31:DD:23:LYS:CD	31:DD:24:PRO:HD2	2.45	0.45
36:DI:82:ALA:O	36:DI:85:VAL:N	2.48	0.45
25:A:246:G:O4'	53:F:202:ASP:HB3	2.16	0.45
25:A:354:C:OP2	84:A:1905:OHX:N4	2.49	0.45
25:A:959:U:C6	62:O:61:THR:HB	2.52	0.45
25:A:1303:U:O4	84:A:1955:OHX:N6	2.49	0.45
53:F:214:LEU:HD12	53:F:214:LEU:HA	1.66	0.45
56:I:37:GLU:C	56:I:40:PRO:HD2	2.40	0.45
56:I:164:TYR:CE2	56:I:165:LYS:HG3	2.51	0.45
68:U:76:LEU:HD22	68:U:80:TYR:CE2	2.51	0.45
69:V:96:PRO:HG2	69:V:99:ILE:HG22	1.98	0.45
72:Y:68:ILE:O	72:Y:70:LYS:NZ	2.44	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:s0:49:ASN:HA	82:c7:109:LEU:HD21	1.98	0.45
51:s2:225:LEU:HG	70:d1:23:ILE:HG13	1.98	0.45
52:s3:79:TYR:HD2	52:s3:84:ILE:HD12	1.81	0.45
56:s7:75:THR:O	56:s7:79:ARG:HB2	2.16	0.45
56:s7:132:PRO:O	56:s7:133:THR:OG1	2.31	0.45
60:c1:77:SER:HB3	60:c1:85:VAL:HB	1.97	0.45
60:c1:99:ARG:HB3	72:d3:9:LEU:O	2.16	0.45
67:c8:33:THR:HA	67:c8:38:VAL:HG23	1.98	0.45
69:d0:87:HIS:HB3	69:d0:89:ARG:NH2	2.31	0.45
81:sR:22:SER:OG	81:sR:70:ASP:HA	2.16	0.45
81:sR:253:ALA:HA	81:sR:262:VAL:HA	1.99	0.45
1:1:198:A:C6	1:1:219:A:C6	3.04	0.45
1:1:208:C:C2	1:1:209:A:C8	3.05	0.45
1:1:1116:G:N2	1:1:2817:A:O4'	2.49	0.45
1:1:1658:G:H2'	1:1:1659:U:C6	2.52	0.45
1:1:1743:G:H2'	1:1:1744:G:H8	1.81	0.45
1:1:2227:C:H2'	1:1:2228:A:H8	1.81	0.45
1:1:2255:A:H5'	1:1:2261:G:H22	1.80	0.45
1:1:2986:U:H2'	1:1:2987:A:C8	2.52	0.45
1:1:3151:U:H4'	1:1:3294:A:C1'	2.47	0.45
1:1:3198:U:H3'	1:1:3199:G:H5'	1.99	0.45
3:4:121:U:H2'	3:4:122:U:C6	2.51	0.45
4:j:245:LEU:HD12	4:j:246:LEU:N	2.31	0.45
6:l:180:LYS:HZ3	6:l:202:ARG:HB3	1.81	0.45
16:v:96:ARG:HG2	16:v:96:ARG:HH11	1.82	0.45
22:2:65:TYR:CD1	22:2:66:ASN:HB2	2.51	0.45
25:6:252:U:H5''	53:s4:133:LYS:HA	1.99	0.45
25:6:293:U:OP2	84:6:1993:OHX:N2	2.50	0.45
25:6:861:U:O2'	71:d2:56:HIS:O	2.20	0.45
25:6:1148:C:O2'	25:6:1149:G:H5'	2.16	0.45
25:6:1579:U:H2'	25:6:1580:C:C6	2.51	0.45
44:AP:65:THR:OG1	44:AP:87:ARG:HD3	2.15	0.45
1:AR:309:U:OP1	38:DK:84:LYS:HE2	2.16	0.45
1:AR:2278:C:C2	1:AR:2307:G:N2	2.84	0.45
1:AR:2303:A:OP1	43:DP:23:ARG:NH2	2.49	0.45
1:AR:3317:U:H4'	1:AR:3318:G:O5'	2.16	0.45
5:CE:56:ILE:HA	5:CE:56:ILE:HD12	1.60	0.45
15:CO:38:ILE:CD1	21:CU:150:PHE:HE1	2.30	0.45
17:CQ:162:VAL:O	17:CQ:166:GLU:HG3	2.17	0.45
29:DB:17:ARG:O	29:DB:19:ALA:N	2.48	0.45
36:DI:109:THR:HA	36:DI:112:ALA:HB3	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:223:U:H2'	25:A:224:C:C6	2.52	0.45
25:A:304:U:H2'	25:A:305:C:C6	2.51	0.45
25:A:319:U:H5'	25:A:320:U:H5	1.80	0.45
25:A:1103:U:H2'	25:A:1104:U:C6	2.52	0.45
25:A:1335:U:H3	25:A:1416:G:H1	1.64	0.45
25:A:1469:A:H4'	25:A:1541:G:H4'	1.98	0.45
49:B:30:GLN:OE1	49:B:149:LEU:HD13	2.16	0.45
51:D:228:ASN:OD1	51:D:228:ASN:N	2.50	0.45
62:O:55:ARG:HA	62:O:60:VAL:O	2.17	0.45
64:Q:75:PRO:HA	64:Q:93:VAL:O	2.17	0.45
66:S:88:VAL:HG13	66:S:89:SER:N	2.31	0.45
67:T:81:ILE:HG22	67:T:86:LEU:HD21	1.98	0.45
67:T:82:PRO:HB3	67:T:84:TRP:CE2	2.51	0.45
69:V:67:THR:CG2	78:e:40:ARG:HB2	2.44	0.45
71:X:94:LEU:HA	71:X:95:PRO:HD3	1.86	0.45
74:a:94:LYS:HG2	74:a:95:HIS:HB3	1.97	0.45
75:b:84:VAL:HG22	75:b:85:ARG:O	2.16	0.45
76:c:61:THR:HG23	76:c:62:ILE:H	1.80	0.45
81:h:202:LEU:HA	81:h:212:ALA:O	2.16	0.45
52:s3:210:GLU:HA	52:s3:211:PRO:HD3	1.81	0.45
53:s4:49:ARG:HB3	53:s4:55:ALA:HB3	1.97	0.45
82:c7:104:ASN:C	82:c7:106:THR:N	2.71	0.45
68:c9:37:VAL:HG11	68:c9:100:ILE:HD11	1.99	0.45
69:d0:33:GLN:OE1	69:d0:33:GLN:N	2.49	0.45
73:d4:63:GLN:HG3	73:d4:64:PHE:N	2.31	0.45
1:1:90:C:H2'	1:1:91:G:H5'	1.97	0.45
1:1:534:U:O2	21:0:146:LYS:HA	2.15	0.45
1:1:1316:C:N4	17:w:131:PRO:HD3	2.31	0.45
1:1:1350:A:H2'	1:1:1351:U:C6	2.52	0.45
1:1:1456:A:N6	1:1:1477:A:H4'	2.31	0.45
1:1:2137:U:OP2	1:1:2142:A:N6	2.48	0.45
1:1:2533:G:N7	84:1:3535:OHX:N4	2.64	0.45
1:1:2726:C:H5	84:1:3447:OHX:N4	2.15	0.45
1:1:2812:C:O2'	1:1:2813:A:H5'	2.16	0.45
2:3:115:G:N2	7:m:72:ASP:O	2.46	0.45
3:4:143:U:H2'	3:4:144:G:O4'	2.16	0.45
5:k:283:TYR:CZ	5:k:325:LYS:HB2	2.51	0.45
6:l:23:PRO:C	6:l:25:VAL:H	2.24	0.45
14:t:182:ILE:HD12	14:t:182:ILE:H	1.81	0.45
16:v:91:GLU:O	16:v:93:LYS:HE3	2.16	0.45
19:y:162:ALA:HA	19:y:163:PRO:HD2	1.70	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:l2:87:ARG:HH22	24:l2:137:VAL:CG2	2.30	0.45
25:6:511:A:H5''	58:s9:172:VAL:HG22	1.99	0.45
25:6:1549:C:O5'	64:c5:39:ALA:HB2	2.17	0.45
25:6:1563:C:H2'	25:6:1564:U:C6	2.51	0.45
33:AE:88:PRO:C	33:AE:89:LEU:HD12	2.41	0.45
1:AR:563:U:H2'	1:AR:564:G:H8	1.80	0.45
1:AR:1621:A:H2'	1:AR:1622:U:C6	2.51	0.45
1:AR:1767:C:H2'	1:AR:1768:U:C6	2.52	0.45
1:AR:1812:G:O6	29:DB:64:LYS:HD2	2.16	0.45
1:AR:2152:A:H2'	1:AR:2153:U:C6	2.51	0.45
1:AR:2724:U:H3	1:AR:2732:G:H1	1.65	0.45
1:AR:3022:G:O2'	1:AR:3031:G:O6	2.27	0.45
1:AR:3047:U:O2'	1:AR:3048:A:H5'	2.16	0.45
3:AT:110:C:O2'	3:AT:112:U:OP2	2.33	0.45
5:CE:148:LEU:HD12	5:CE:148:LEU:HA	1.78	0.45
14:CN:158:ALA:O	30:DC:124:ILE:HD11	2.16	0.45
20:CT:100:ARG:HG2	20:CT:100:ARG:HH11	1.82	0.45
21:CU:131:LYS:O	21:CU:134:ASP:HB2	2.15	0.45
32:DE:13:LYS:HD2	32:DE:99:ASP:OD1	2.17	0.45
32:DE:24:THR:CG2	32:DE:91:SER:HB3	2.46	0.45
37:DJ:83:LYS:O	37:DJ:89:ARG:NE	2.49	0.45
44:DQ:8:ARG:HH22	44:DQ:83:LEU:HD12	1.81	0.45
25:A:26:A:O2'	25:A:27:U:O5'	2.31	0.45
25:A:340:U:H2'	25:A:341:A:C8	2.52	0.45
25:A:848:C:H2'	25:A:849:C:C6	2.52	0.45
25:A:922:G:H2'	25:A:923:A:C8	2.51	0.45
52:E:168:ILE:HG22	52:E:189:MET:HB2	1.99	0.45
53:F:37:LYS:HB2	53:F:40:GLU:HG2	1.98	0.45
74:a:87:GLY:C	74:a:89:ILE:H	2.24	0.45
49:s0:9:LEU:HD13	49:s0:10:THR:O	2.17	0.45
53:s4:195:ILE:HD12	53:s4:208:VAL:HG11	1.99	0.45
54:s5:37:GLN:CD	65:c6:53:LEU:HD22	2.42	0.45
56:s7:96:ARG:CZ	56:s7:124:LYS:HB3	2.46	0.45
58:s9:134:ILE:HD13	58:s9:141:VAL:O	2.17	0.45
59:c0:23:ALA:HB1	59:c0:64:TYR:HB2	1.99	0.45
64:c5:18:ARG:HH21	64:c5:38:PRO:HG3	1.82	0.45
1:1:754:G:H2'	1:1:755:A:H8	1.82	0.45
1:1:846:A:H2'	1:1:847:A:O4'	2.17	0.45
1:1:879:U:H4'	18:x:132:ALA:HB3	1.98	0.45
1:1:1069:C:H2'	1:1:1070:U:H6	1.81	0.45
1:1:1456:A:N7	33:AE:26:LYS:HE2	2.32	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:r:76:MET:HE2	12:r:148:VAL:HA	1.99	0.45
13:s:141:ARG:O	13:s:145:LYS:HE2	2.16	0.45
15:u:24:LYS:HG3	15:u:25:LYS:H	1.82	0.45
18:x:125:GLN:HB2	18:x:141:SER:CB	2.46	0.45
19:y:79:LYS:HG2	19:y:136:ASN:OD1	2.16	0.45
25:6:348:U:O4	84:6:2021:OHX:N4	2.49	0.45
25:6:517:U:H2'	25:6:518:A:O4'	2.16	0.45
25:6:876:G:H1'	25:6:944:A:O4'	2.17	0.45
25:6:1304:G:H5'	25:6:1322:A:OP2	2.17	0.45
25:6:1518:C:OP2	84:6:2000:OHX:N1	2.50	0.45
27:8:105:VAL:HA	27:8:130:TYR:CE2	2.52	0.45
37:AI:85:THR:HG22	37:AI:88:LEU:N	2.16	0.45
1:AR:269:G:H5'	16:CP:120:TRP:CE3	2.51	0.45
1:AR:290:G:H1'	16:CP:93:LYS:HD2	1.98	0.45
1:AR:563:U:OP1	21:CU:71:LYS:NZ	2.47	0.45
1:AR:574:U:H2'	1:AR:575:G:H8	1.81	0.45
1:AR:1064:A:H5''	1:AR:1066:G:O4'	2.17	0.45
1:AR:1792:C:H2'	1:AR:1795:U:C5	2.52	0.45
1:AR:2858:U:O2'	1:AR:2887:A:N6	2.50	0.45
1:AR:3258:U:OP2	84:AR:3499:OHX:N4	2.50	0.45
84:AR:3443:OHX:N1	84:AR:3731:OHX:N3	2.63	0.45
6:CF:82:THR:HG23	6:CF:84:ARG:N	2.27	0.45
9:CI:140:SER:O	9:CI:144:ILE:HG13	2.17	0.45
15:CO:31:LYS:NZ	15:CO:51:ALA:O	2.42	0.45
16:CP:38:ARG:CZ	16:CP:60:VAL:HG13	2.46	0.45
22:CV:34:TYR:CE2	22:CV:96:ILE:HG23	2.51	0.45
24:CX:75:PRO:HB2	24:CX:103:ALA:O	2.16	0.45
32:DE:44:ILE:HD13	32:DE:53:LYS:HG3	1.99	0.45
34:DG:41:VAL:HG12	34:DG:46:PHE:CD2	2.52	0.45
35:DH:31:LYS:HD2	35:DH:31:LYS:HA	1.74	0.45
38:DK:9:ILE:HA	38:DK:13:LYS:HD3	1.98	0.45
25:A:401:A:H4'	53:F:3:ARG:HD3	1.99	0.45
25:A:480:G:N2	25:A:509:G:H1'	2.29	0.45
25:A:851:U:H2'	25:A:852:C:C6	2.51	0.45
25:A:1237:G:H2'	25:A:1238:A:C8	2.51	0.45
49:B:62:ARG:HH21	70:W:39:VAL:HG22	1.81	0.45
53:F:126:VAL:HG22	53:F:158:ASP:O	2.17	0.45
56:I:141:ARG:NH2	71:X:49:GLU:OE2	2.49	0.45
58:K:81:VAL:O	58:K:150:LEU:HD22	2.16	0.45
59:L:36:ASP:O	59:L:37:THR:HG23	2.17	0.45
64:Q:37:ALA:HB1	64:Q:38:PRO:HD2	1.98	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
68:U:15:ILE:HD13	68:U:60:SER:HA	1.97	0.45
68:U:66:TYR:HA	68:U:124:ILE:HG21	1.99	0.45
75:b:40:ALA:O	75:b:68:TYR:HA	2.17	0.45
51:s2:106:ASP:CG	51:s2:108:ASN:H	2.25	0.45
57:s8:138:ASN:HA	57:s8:141:ARG:HD3	1.98	0.45
75:d6:10:ARG:NH1	75:d6:36:ILE:HG13	2.30	0.45
78:d9:6:VAL:O	78:d9:7:TRP:CG	2.70	0.45
1:1:824:C:H2'	1:1:825:U:C6	2.52	0.45
1:1:1378:U:H2'	1:1:1379:G:C8	2.52	0.45
1:1:2660:G:O3'	1:1:2749:G:N2	2.50	0.45
3:4:30:C:H2'	3:4:31:G:C8	2.52	0.45
5:k:113:GLU:OE2	5:k:167:ARG:HG2	2.17	0.45
6:l:290:ILE:HG23	19:y:35:PHE:CE2	2.51	0.45
7:m:209:GLU:HG2	7:m:233:ALA:CB	2.46	0.45
9:o:92:ILE:CD1	19:y:4:ASP:HB2	2.46	0.45
9:o:148:VAL:HG12	9:o:181:ILE:HD11	1.99	0.45
11:q:86:TYR:CD1	11:q:151:VAL:HG13	2.52	0.45
11:q:90:MET:HG2	11:q:181:VAL:HA	1.99	0.45
12:r:68:ALA:HB2	12:r:158:LYS:HB2	1.98	0.45
16:v:204:LYS:HE2	16:v:204:LYS:HB3	1.72	0.45
19:y:83:VAL:O	19:y:103:ALA:HA	2.17	0.45
25:6:1078:C:H2'	25:6:1079:U:H6	1.81	0.45
25:6:1235:C:OP2	25:6:1245:G:H8	2.00	0.45
34:AF:20:HIS:O	34:AF:21:HIS:HB2	2.16	0.45
36:AH:99:LYS:O	36:AH:103:LYS:HG2	2.15	0.45
1:AR:1410:U:O4	84:AR:3661:OHX:N6	2.50	0.45
1:AR:1933:A:OP2	84:AR:3416:OHX:N6	2.50	0.45
1:AR:2317:A:H2'	1:AR:2318:U:O4'	2.17	0.45
1:AR:2369:G:OP2	84:AR:3410:OHX:N5	2.49	0.45
1:AR:2651:G:H4'	1:AR:2652:U:OP2	2.17	0.45
1:AR:2834:G:N7	84:AR:3429:OHX:N2	2.65	0.45
4:CD:147:ARG:NH1	4:CD:155:LYS:HD3	2.32	0.45
12:CL:68:ALA:HA	12:CL:158:LYS:HG3	1.99	0.45
16:CP:15:GLN:CG	38:DK:52:PRO:HD2	2.46	0.45
24:CX:45:ARG:HD2	24:CX:46:LEU:N	2.31	0.45
37:DJ:36:LEU:H	37:DJ:36:LEU:HG	1.55	0.45
25:A:20:G:H5'	25:A:571:G:C8	2.52	0.45
25:A:903:U:H5''	63:P:135:ARG:NH2	2.32	0.45
25:A:1163:A:N6	25:A:1164:G:C6	2.85	0.45
25:A:1759:C:H2'	25:A:1760:G:O4'	2.16	0.45
53:F:158:ASP:OD1	53:F:175:PHE:N	2.50	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:I:58:LEU:HG	56:I:88:ARG:HD2	1.97	0.45
62:O:3:ARG:HG2	62:O:6:SER:OG	2.16	0.45
66:S:24:LEU:HA	66:S:24:LEU:HD23	1.65	0.45
69:V:68:ARG:NH2	69:V:77:LYS:HA	2.31	0.45
49:s0:172:LEU:HD22	49:s0:176:LEU:HG	1.98	0.45
52:s3:90:ARG:HH21	52:s3:91:VAL:HG12	1.82	0.45
53:s4:160:VAL:HG12	53:s4:162:ILE:HG13	1.98	0.45
58:s9:146:PHE:O	58:s9:147:MET:HB2	2.17	0.45
63:c4:103:ARG:NH2	75:d6:52:ASP:OD2	2.50	0.45
64:c5:65:LEU:O	84:c5:201:OHX:N2	2.50	0.45
68:c9:40:SER:HB2	68:c9:96:ALA:HA	1.97	0.45
71:d2:25:VAL:HG23	71:d2:63:VAL:HB	1.99	0.45
71:d2:105:THR:OG1	71:d2:110:ILE:HG12	2.17	0.45
73:d4:15:ASN:ND2	73:d4:22:GLN:OE1	2.50	0.45
73:d4:49:LYS:HD3	73:d4:49:LYS:N	2.28	0.45
73:d4:60:PHE:HA	73:d4:70:VAL:O	2.17	0.45
83:e1:113:LYS:HE3	83:e1:113:LYS:HB3	1.80	0.45
1:1:16:A:H2'	1:1:17:G:O4'	2.17	0.45
1:1:654:C:H2'	1:1:655:C:H6	1.80	0.45
1:1:792:G:O6	84:1:3687:OHX:N4	2.50	0.45
1:1:1307:G:OP1	17:w:59:ARG:NH1	2.50	0.45
1:1:1460:A:H2'	1:1:1461:A:C8	2.52	0.45
1:1:2762:A:N6	1:1:2800:G:H2'	2.32	0.45
6:l:82:THR:HG23	6:l:84:ARG:HB3	1.99	0.45
10:p:84:ARG:H	10:p:84:ARG:NE	2.14	0.45
12:r:36:LEU:HD21	12:r:69:ARG:HH11	1.82	0.45
15:u:23:ILE:HD11	15:u:46:ILE:HD12	1.98	0.45
20:z:172:ARG:HD3	25:A:852:C:P	2.57	0.45
23:5:85:LYS:HA	23:5:85:LYS:HD2	1.71	0.45
25:6:1042:G:N2	25:6:1077:C:O2	2.50	0.45
25:6:1282:U:OP1	84:6:1994:OHX:N4	2.50	0.45
25:6:1515:A:O2'	25:6:1517:U:OP2	2.33	0.45
25:6:1692:G:H2'	25:6:1693:A:H8	1.81	0.45
30:AB:47:LYS:HE2	30:AB:48:TYR:CE1	2.52	0.45
32:AD:9:SER:OG	32:AD:10:ILE:N	2.49	0.45
32:AD:13:LYS:HD3	32:AD:100:ILE:HG22	1.97	0.45
33:AE:29:ALA:HA	33:AE:67:VAL:HG21	1.98	0.45
39:AK:39:TYR:CD1	39:AK:40:PRO:HA	2.51	0.45
46:i:61:ILE:HD11	67:T:120:ARG:HD2	1.99	0.45
1:AR:73:C:OP1	38:DK:15:LYS:N	2.50	0.45
1:AR:632:G:OP1	17:CQ:93:ALA:HB3	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:1580:A:H3'	1:AR:2522:G:C8	2.51	0.45
1:AR:1674:G:N7	84:AR:3470:OHX:N1	2.64	0.45
1:AR:1686:U:OP1	23:CW:42:LYS:NZ	2.48	0.45
1:AR:3060:C:O2	1:AR:3332:U:O2'	2.30	0.45
1:AR:3218:A:H4'	1:AR:3219:G:O5'	2.17	0.45
2:AS:36:C:H2'	2:AS:37:G:C8	2.52	0.45
5:CE:84:VAL:CG2	5:CE:162:VAL:HB	2.46	0.45
6:CF:10:SER:OG	6:CF:14:GLU:HB2	2.16	0.45
6:CF:229:ASN:OD1	6:CF:230:VAL:N	2.50	0.45
10:CJ:52:TRP:NE1	10:CJ:60:ARG:HH12	2.14	0.45
12:CL:100:ASN:HB2	12:CL:118:ALA:O	2.17	0.45
18:CR:96:GLN:O	18:CR:99:ALA:HB3	2.17	0.45
23:CW:33:TYR:CE2	23:CW:63:VAL:HG21	2.51	0.45
30:DC:28:HIS:CD2	30:DC:32:ARG:HG2	2.52	0.45
32:DE:43:ILE:HB	32:DE:90:VAL:HB	1.98	0.45
25:A:385:A:H5''	57:J:22:ARG:HB3	1.99	0.45
25:A:704:C:H3'	25:A:704:C:OP2	2.17	0.45
25:A:1114:G:O2'	25:A:1130:G:O6	2.30	0.45
25:A:1169:G:O2'	25:A:1576:A:N6	2.48	0.45
25:A:1400:A:H4'	66:S:60:ARG:HH22	1.80	0.45
51:D:143:TYR:CZ	51:D:151:PRO:HG3	2.51	0.45
54:G:30:PRO:HB2	54:G:33:VAL:HG23	1.98	0.45
61:N:29:LYS:HE2	61:N:100:TRP:NE1	2.32	0.45
61:N:33:ARG:HA	61:N:36:LEU:HD12	1.99	0.45
68:U:57:ARG:HH11	68:U:57:ARG:HB2	1.81	0.45
72:Y:19:ARG:O	72:Y:23:ARG:HG2	2.17	0.45
50:s1:197:ILE:HG22	50:s1:210:ILE:HD13	1.98	0.45
54:s5:217:LEU:HD23	54:s5:217:LEU:HA	1.86	0.45
56:s7:155:ASP:OD1	56:s7:156:SER:N	2.45	0.45
58:s9:54:ARG:HE	58:s9:54:ARG:HB3	1.66	0.45
65:c6:53:LEU:H	65:c6:53:LEU:HG	1.53	0.45
72:d3:90:ASP:OD1	79:e0:12:GLY:HA2	2.16	0.45
74:d5:75:LEU:O	74:d5:79:ALA:N	2.50	0.45
1:1:277:G:OP1	84:1:3414:OHX:N5	2.50	0.45
1:1:305:U:C5	1:1:2776:C:H1'	2.52	0.45
1:1:364:G:O3'	6:l:84:ARG:HG2	2.17	0.45
1:1:503:C:H4'	8:n:26:ARG:HH12	1.82	0.45
1:1:546:C:H5'	1:1:547:G:O4'	2.16	0.45
1:1:689:U:O4	6:l:209:TYR:HE2	1.99	0.45
1:1:706:A:H4'	1:1:781:G:O2'	2.15	0.45
1:1:1193:A:O2'	1:1:1194:G:H5'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1381:A:C2	1:1:1426:C:C2	3.05	0.45
1:1:1937:U:C4	1:1:1938:U:O4	2.69	0.45
1:1:2286:U:H6	1:1:2286:U:OP1	1.99	0.45
1:1:3085:G:OP1	26:7:34:SER:OG	2.30	0.45
2:3:92:A:C4	2:3:93:C:H1'	2.52	0.45
2:3:118:A:H5''	7:m:253:PHE:CZ	2.52	0.45
6:l:31:ARG:O	6:l:35:VAL:HG23	2.17	0.45
9:o:96:PRO:O	9:o:100:ARG:HB2	2.16	0.45
12:r:171:TRP:CE3	12:r:178:ARG:HD2	2.52	0.45
25:6:845:G:H2'	25:6:846:G:C8	2.45	0.45
25:6:1514:U:H1'	52:s3:6:SER:CA	2.47	0.45
25:6:1590:G:H2'	25:6:1591:C:C6	2.52	0.45
46:i:61:ILE:HD12	46:i:62:ARG:H	1.82	0.45
1:AR:90:C:O2'	1:AR:282:G:OP1	2.28	0.45
1:AR:297:G:O6	16:CP:12:ARG:NH1	2.49	0.45
1:AR:356:C:H42	1:AR:363:G:H1	1.65	0.45
1:AR:361:A:H5'	39:DL:35:SER:OG	2.17	0.45
1:AR:501:A:O3'	8:CH:28:GLN:HB2	2.17	0.45
1:AR:851:C:O5'	1:AR:851:C:H6	1.99	0.45
1:AR:1062:A:OP2	84:AR:3720:OHX:N3	2.49	0.45
1:AR:1121:U:OP2	84:AR:3645:OHX:N2	2.50	0.45
1:AR:1308:A:OP2	1:AR:2368:A:H4'	2.17	0.45
1:AR:1339:C:OP1	34:DG:61:LYS:HG3	2.17	0.45
1:AR:1410:U:O2'	34:DG:95:GLU:OE1	2.22	0.45
1:AR:1415:U:O4	84:AR:3646:OHX:N1	2.50	0.45
1:AR:1525:G:N7	84:AR:3550:OHX:N3	2.65	0.45
1:AR:2842:U:OP1	1:AR:2844:C:N4	2.50	0.45
2:AS:76:A:OP2	84:AS:201:OHX:N3	2.50	0.45
3:AT:141:C:H2'	3:AT:142:C:C6	2.51	0.45
7:CG:39:GLN:OE1	7:CG:40:HIS:N	2.50	0.45
11:CK:33:THR:C	11:CK:34:LEU:HD23	2.42	0.45
14:CN:47:ALA:HB1	14:CN:48:PRO:HD2	1.97	0.45
14:CN:178:LYS:HD3	14:CN:179:PHE:CE1	2.51	0.45
19:CS:153:PHE:O	19:CS:161:LYS:HE2	2.17	0.45
20:CT:78:TYR:HA	20:CT:81:ARG:HD2	1.97	0.45
21:CU:77:VAL:HG21	21:CU:94:ILE:HD12	1.99	0.45
26:CY:46:PRO:HB2	26:CY:54:LEU:HD23	1.99	0.45
36:DI:74:ARG:HG2	36:DI:75:ALA:H	1.81	0.45
37:DJ:85:THR:HG22	37:DJ:87:ALA:N	2.31	0.45
47:p0:92:PRO:HG2	47:p0:95:GLU:OE1	2.16	0.45
25:A:180:A:H2'	25:A:181:A:O4'	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:306:U:H2'	25:A:307:G:C8	2.51	0.45
25:A:397:A:H4'	57:J:50:GLY:HA2	1.99	0.45
25:A:1119:G:O6	84:A:2026:OHX:N1	2.50	0.45
50:C:180:THR:HB	50:C:182:ALA:H	1.82	0.45
55:H:78:THR:O	55:H:81:VAL:HG12	2.17	0.45
59:L:16:PHE:HD1	59:L:76:LEU:HD23	1.81	0.45
61:N:74:LEU:HD21	80:g:106:TYR:HD2	1.82	0.45
67:T:87:ASN:OD1	67:T:88:ARG:N	2.49	0.45
70:W:60:ARG:HA	70:W:65:SER:HB2	1.98	0.45
49:s0:59:LEU:O	49:s0:63:ILE:HG13	2.17	0.45
51:s2:128:GLY:O	51:s2:132:ALA:N	2.49	0.45
61:c2:29:LYS:HE2	61:c2:100:TRP:NE1	2.31	0.45
65:c6:46:PHE:HA	65:c6:49:TYR:HB2	1.98	0.45
67:c8:116:LEU:HA	67:c8:119:ILE:HG22	1.98	0.45
72:d3:44:GLY:H	72:d3:78:LYS:HZ2	1.63	0.45
72:d3:76:LEU:O	72:d3:80:GLY:HA2	2.16	0.45
73:d4:20:ARG:HD3	73:d4:76:TYR:CE1	2.51	0.45
81:sR:193:ILE:HG22	81:sR:194:GLY:N	2.32	0.45
1:1:929:A:H2'	1:1:930:U:H6	1.82	0.45
1:1:1215:U:H2'	1:1:1216:C:O4'	2.17	0.45
1:1:1530:U:H5''	1:1:1531:C:OP2	2.17	0.45
1:1:2284:C:H2'	1:1:2285:C:O4'	2.17	0.45
1:1:3276:G:O6	35:AG:60:ARG:NH1	2.50	0.45
1:1:3376:A:OP2	84:1:3444:OHX:N2	2.50	0.45
5:k:33:PRO:HG2	5:k:340:LYS:HB2	1.98	0.45
5:k:105:VAL:HG11	5:k:148:LEU:HD13	1.99	0.45
5:k:320:ASP:OD1	5:k:320:ASP:N	2.44	0.45
6:l:351:PRO:HB3	9:o:70:LYS:HB3	1.98	0.45
7:m:40:HIS:CD2	7:m:42:ALA:HB3	2.52	0.45
7:m:110:LEU:HD12	7:m:110:LEU:HA	1.79	0.45
14:t:120:GLN:O	14:t:123:ILE:HG13	2.17	0.45
25:6:159:U:O4	73:d4:116:LYS:HD3	2.16	0.45
25:6:400:A:H4'	25:6:401:A:H5'	1.99	0.45
25:6:454:U:H5''	25:6:455:C:H5	1.82	0.45
25:6:654:C:H2'	25:6:655:G:H8	1.82	0.45
25:6:1031:U:H4'	25:6:1032:G:OP2	2.16	0.45
39:AK:21:ARG:HD2	39:AK:37:CYS:SG	2.56	0.45
1:AR:519:A:O5'	9:CI:70:LYS:NZ	2.50	0.45
1:AR:990:U:H4'	22:CV:100:LYS:HB3	1.99	0.45
1:AR:1249:G:H2'	1:AR:1250:G:C8	2.50	0.45
1:AR:1816:A:O2'	1:AR:1817:G:OP1	2.31	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2350:C:H4'	1:AR:3308:C:O2'	2.17	0.45
1:AR:2528:G:H1	1:AR:2582:C:H42	1.63	0.45
1:AR:2532:U:H5'	1:AR:2533:G:OP2	2.16	0.45
1:AR:2536:A:H5''	50:s1:226:GLY:H	1.81	0.45
3:AT:84:C:H1'	28:DA:113:LYS:HG3	1.99	0.45
3:AT:113:U:H5''	41:DN:7:PHE:HB3	1.99	0.45
5:CE:332:ARG:NH1	5:CE:333:LYS:HD2	2.31	0.45
15:CO:128:ARG:HD3	15:CO:132:LYS:HD2	1.99	0.45
17:CQ:38:ALA:O	17:CQ:41:LEU:HB2	2.15	0.45
18:CR:26:PHE:CE2	18:CR:121:GLN:HG2	2.52	0.45
22:CV:124:VAL:HG12	22:CV:125:ALA:H	1.82	0.45
32:DE:30:THR:HG22	32:DE:91:SER:CB	2.47	0.45
36:DI:9:ARG:NH2	36:DI:34:HIS:HB2	2.32	0.45
25:A:86:A:H2'	25:A:87:C:H6	1.82	0.45
25:A:380:U:C4	58:K:5:PRO:HB3	2.52	0.45
25:A:393:C:H4'	25:A:1673:G:O2'	2.17	0.45
25:A:1489:U:P	52:E:9:ARG:HH21	2.40	0.45
25:A:1613:U:H2'	25:A:1614:A:H5''	1.99	0.45
58:K:161:THR:HG22	58:K:162:SER:H	1.82	0.45
67:T:89:GLN:C	67:T:91:ASP:H	2.23	0.45
72:Y:86:PHE:O	72:Y:124:VAL:HG23	2.17	0.45
52:s3:211:PRO:HG3	82:c7:20:TYR:CZ	2.52	0.45
54:s5:128:ASN:OD1	54:s5:130:ILE:HG12	2.16	0.45
54:s5:149:VAL:HG12	54:s5:156:ARG:O	2.17	0.45
56:s7:105:THR:OG1	56:s7:106:SER:N	2.48	0.45
58:s9:114:TYR:HA	58:s9:119:ALA:HB3	1.99	0.45
58:s9:176:ASN:HA	58:s9:179:ARG:HG2	1.99	0.45
64:c5:127:ARG:N	64:c5:127:ARG:HD2	2.32	0.45
82:c7:29:GLN:HG2	81:sR:67:ILE:HD11	1.99	0.45
77:d8:33:LEU:HB3	77:d8:34:GLU:H	1.55	0.45
81:sR:267:PRO:HD2	81:sR:269:TYR:CE1	2.52	0.45
1:1:27:C:H1'	1:1:328:U:H1'	1.99	0.45
1:1:790:U:OP1	84:1:3454:OHX:N5	2.50	0.45
1:1:1307:G:C2	1:1:1308:A:C2	3.05	0.45
1:1:1460:A:H2'	1:1:1461:A:H8	1.83	0.45
1:1:2971:A:H3'	1:1:2971:A:N3	2.32	0.45
1:1:3113:A:OP2	84:1:3565:OHX:N5	2.49	0.45
4:j:27:ALA:HB3	4:j:128:ARG:HH22	1.80	0.45
5:k:296:THR:H	5:k:299:ASP:HB3	1.82	0.45
5:k:306:THR:HA	5:k:307:PRO:HD3	1.83	0.45
8:n:154:LEU:HA	8:n:154:LEU:HD23	1.75	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:o:179:LEU:H	9:o:179:LEU:HD22	1.82	0.45
12:r:201:SER:OG	12:r:203:LYS:HD2	2.16	0.45
13:s:9:MET:HE3	13:s:9:MET:HB2	1.69	0.45
14:t:108:ILE:O	14:t:111:ALA:HB3	2.17	0.45
14:t:126:PHE:CD2	37:AI:115:LYS:HD2	2.52	0.45
15:u:135:LEU:HD11	17:w:178:VAL:HG22	1.99	0.45
18:x:127:ARG:HB3	18:x:139:TYR:O	2.16	0.45
19:y:68:ALA:O	19:y:72:LYS:HG3	2.17	0.45
20:z:8:LYS:HD2	20:z:22:VAL:HG23	1.99	0.45
20:z:104:ARG:HE	20:z:108:LYS:NZ	2.15	0.45
23:5:79:LEU:O	23:5:82:LYS:HB3	2.16	0.45
25:6:153:G:O2'	55:s6:108:VAL:HG11	2.16	0.45
25:6:1078:C:H2'	25:6:1079:U:C6	2.52	0.45
28:9:55:GLU:HB2	28:9:108:LYS:HB2	1.99	0.45
31:AC:5:LYS:HE3	31:AC:7:HIS:O	2.17	0.45
1:AR:977:C:OP1	19:CS:141:ARG:NH2	2.49	0.45
1:AR:1366:A:O3'	34:DG:45:ARG:NH2	2.47	0.45
1:AR:1405:U:H1'	34:DG:54:LYS:O	2.16	0.45
1:AR:3024:A:H5''	11:CK:96:HIS:CD2	2.52	0.45
5:CE:114:VAL:HG22	5:CE:163:HIS:CE1	2.51	0.45
5:CE:162:VAL:HG21	5:CE:181:ILE:HD12	1.99	0.45
6:CF:330:TYR:CZ	9:CI:49:ALA:HA	2.52	0.45
10:CJ:161:GLU:OE1	16:CP:26:ARG:NH1	2.38	0.45
11:CK:33:THR:O	11:CK:34:LEU:HD23	2.17	0.45
12:CL:20:SER:H	12:CL:23:ASN:HB2	1.81	0.45
22:CV:17:ARG:HD2	22:CV:17:ARG:HA	1.76	0.45
22:CV:128:LEU:H	22:CV:128:LEU:HD12	1.80	0.45
29:DB:36:HIS:N	29:DB:37:PRO:HD3	2.32	0.45
44:DQ:2:VAL:HG23	44:DQ:91:PHE:HD1	1.81	0.45
25:A:397:A:O3'	57:J:50:GLY:HA2	2.17	0.45
25:A:553:G:N2	25:A:571:G:O6	2.50	0.45
49:B:188:LEU:HD12	49:B:189:VAL:H	1.81	0.45
50:C:172:LEU:O	50:C:176:VAL:HG23	2.17	0.45
55:H:12:SER:HB2	55:H:124:LEU:HD12	1.99	0.45
55:H:124:LEU:HD12	55:H:124:LEU:HA	1.84	0.45
56:I:96:ARG:HH22	56:I:128:ASP:CG	2.25	0.45
56:I:154:LEU:HD11	56:I:183:PHE:CD1	2.52	0.45
63:P:89:THR:O	63:P:128:LYS:HE2	2.17	0.45
66:S:41:ILE:HG23	66:S:46:LEU:HD13	1.99	0.45
67:T:30:TYR:HE2	67:T:40:ARG:NH1	2.15	0.45
80:g:123:ASN:OD1	80:g:124:PRO:HD2	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:g:139:LEU:HB2	80:g:150:VAL:O	2.17	0.45
59:c0:50:THR:HG22	59:c0:55:VAL:HG22	1.98	0.45
61:c2:58:LEU:HD23	61:c2:58:LEU:H	1.81	0.45
65:c6:50:GLU:OE1	65:c6:112:TYR:OH	2.23	0.45
75:d6:12:LYS:HE2	75:d6:16:GLY:CA	2.47	0.45
81:sR:18:GLY:H	81:sR:308:ASN:CG	2.25	0.45
81:sR:73:LEU:HD22	81:sR:77:GLY:HA2	1.99	0.45
81:sR:123:ILE:HD13	81:sR:169:ILE:HG21	1.99	0.45
1:1:386:A:C5	1:1:387:A:H1'	2.52	0.44
1:1:1740:U:H1'	1:1:1741:A:H2	1.82	0.44
1:1:1798:A:H2'	1:1:1799:A:C8	2.51	0.44
1:1:3134:A:OP1	84:1:3438:OHX:N4	2.50	0.44
6:l:320:ASN:OD1	6:l:323:VAL:HG12	2.17	0.44
7:m:104:LEU:HD11	7:m:108:ARG:NH2	2.33	0.44
9:o:123:THR:HA	9:o:126:LEU:HD12	1.99	0.44
12:r:76:MET:HE2	12:r:148:VAL:HG13	1.97	0.44
13:s:96:PHE:HA	13:s:101:ASN:O	2.16	0.44
27:8:109:LYS:HB2	27:8:109:LYS:HE3	1.46	0.44
29:AA:136:PHE:HB2	36:AH:88:ARG:O	2.17	0.44
33:AE:51:LEU:HD23	33:AE:93:VAL:HB	1.99	0.44
39:AK:52:LYS:HA	39:AK:55:ARG:HD2	1.98	0.44
1:AR:92:G:OP2	1:AR:93:C:H5''	2.17	0.44
1:AR:811:U:H2'	1:AR:812:G:O4'	2.18	0.44
1:AR:1046:A:H2'	1:AR:1049:C:C5	2.52	0.44
1:AR:1141:C:H2'	1:AR:1142:G:O4'	2.17	0.44
1:AR:1155:C:O2'	1:AR:1197:A:N1	2.38	0.44
1:AR:1238:C:H2'	1:AR:1239:C:H6	1.79	0.44
1:AR:1363:A:H2'	1:AR:1364:C:C6	2.52	0.44
1:AR:1366:A:C2	1:AR:1367:G:C4	3.05	0.44
1:AR:2771:U:O2'	1:AR:2772:C:O5'	2.35	0.44
1:AR:2904:U:H2'	1:AR:2905:U:C6	2.52	0.44
1:AR:3377:G:OP2	84:AR:3708:OHX:N5	2.50	0.44
5:CE:212:ASN:CG	5:CE:353:GLU:HA	2.43	0.44
7:CG:113:LEU:HD12	7:CG:113:LEU:HA	1.67	0.44
9:CI:83:LEU:HD22	9:CI:84:VAL:N	2.32	0.44
15:CO:20:VAL:HG22	15:CO:68:LEU:HB2	2.00	0.44
15:CO:46:ILE:HD13	15:CO:58:ILE:HG21	1.99	0.44
26:CY:47:ARG:NH1	26:CY:58:HIS:HB2	2.32	0.44
30:DC:74:ASN:HB2	30:DC:76:ASP:HB2	2.00	0.44
37:DJ:93:THR:O	37:DJ:97:ALA:N	2.49	0.44
25:A:249:U:H3'	25:A:250:C:H5'	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:333:A:P	57:J:48:THR:HB	2.57	0.44
25:A:348:U:O4	84:A:2005:OHX:N5	2.51	0.44
25:A:600:U:OP2	72:Y:108:GLY:HA2	2.17	0.44
25:A:601:A:OP1	72:Y:110:LYS:HD3	2.16	0.44
25:A:727:U:O2'	25:A:728:U:H5''	2.17	0.44
25:A:794:U:O2'	25:A:795:U:O2	2.25	0.44
25:A:837:G:H2'	25:A:838:G:C8	2.52	0.44
25:A:1146:G:C6	25:A:1147:A:C6	3.05	0.44
53:F:15:PRO:HG2	53:F:18:TRP:CZ2	2.53	0.44
54:G:156:ARG:HB2	54:G:156:ARG:NH1	2.31	0.44
64:Q:90:ILE:HD11	64:Q:112:LEU:HD21	1.99	0.44
74:a:38:HIS:CG	74:a:39:ALA:N	2.85	0.44
81:h:300:THR:HG23	81:h:314:GLN:HG3	1.98	0.44
49:s0:9:LEU:HD11	49:s0:14:ALA:HB2	1.98	0.44
49:s0:41:ARG:NH1	49:s0:45:VAL:HG21	2.32	0.44
51:s2:164:SER:O	51:s2:202:GLY:HA3	2.17	0.44
57:s8:82:VAL:HG12	57:s8:101:ILE:O	2.17	0.44
71:d2:94:LEU:HD11	71:d2:102:VAL:HG23	1.99	0.44
72:d3:24:TRP:HZ3	72:d3:30:LYS:HG3	1.82	0.44
73:d4:26:ASP:OD2	73:d4:68:LYS:HE3	2.16	0.44
1:1:594:U:H2'	1:1:609:G:O6	2.17	0.44
1:1:748:U:H2'	1:1:749:C:C6	2.52	0.44
1:1:1047:A:C6	1:1:1048:A:C6	3.05	0.44
1:1:1132:C:H2'	1:1:1133:A:C8	2.52	0.44
1:1:1614:C:H2'	1:1:1615:C:H6	1.82	0.44
1:1:1841:A:O2'	1:1:1842:A:H5''	2.16	0.44
1:1:2263:C:OP1	84:1:3524:OHX:N5	2.50	0.44
1:1:2582:C:OP1	84:1:3682:OHX:N3	2.50	0.44
1:1:2818:U:H5'	1:1:2818:U:C6	2.45	0.44
1:1:2941:A:C8	5:k:255:TRP:CD2	3.05	0.44
84:1:3730:OHX:N6	84:AE:201:OHX:N5	2.65	0.44
3:4:137:C:OP2	84:4:209:OHX:N5	2.50	0.44
6:l:74:ILE:HG22	6:l:75:PRO:HD2	1.99	0.44
9:o:160:ARG:HD2	9:o:203:TRP:CD1	2.52	0.44
21:0:34:GLU:O	21:0:38:LYS:HG3	2.18	0.44
25:6:352:A:H8	25:6:352:A:OP2	1.99	0.44
25:6:600:U:OP2	72:d3:108:GLY:HA2	2.18	0.44
25:6:760:A:H2'	25:6:761:G:O4'	2.18	0.44
25:6:783:G:H2'	25:6:784:C:H6	1.82	0.44
25:6:1389:C:OP2	82:c7:45:ARG:HG3	2.17	0.44
40:AL:65:LEU:HD23	40:AL:68:SER:HB2	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:634:C:O3'	34:DG:47:ARG:NH1	2.51	0.44
1:AR:658:G:OP1	84:AT:211:OHX:N5	2.50	0.44
1:AR:874:U:H5''	1:AR:2950:G:OP1	2.17	0.44
1:AR:1075:A:C5	31:DD:45:HIS:ND1	2.85	0.44
1:AR:1542:G:N7	84:AR:3595:OHX:N3	2.64	0.44
1:AR:1888:U:OP1	5:CE:247:ARG:HD3	2.17	0.44
1:AR:2704:A:O2'	1:AR:2705:A:O5'	2.33	0.44
1:AR:2754:G:O2'	1:AR:2755:C:OP1	2.31	0.44
1:AR:2953:U:H2'	1:AR:2954:U:H2'	1.99	0.44
1:AR:3342:A:C6	1:AR:3343:G:C5	3.05	0.44
2:AS:27:A:H2'	2:AS:28:C:C6	2.53	0.44
3:AT:103:G:H4'	39:DL:21:ARG:HG3	1.99	0.44
6:CF:309:ARG:NH2	6:CF:312:VAL:HB	2.32	0.44
10:CJ:186:LEU:O	10:CJ:189:LEU:HG	2.18	0.44
15:CO:32:LEU:HD11	15:CO:94:TRP:CD1	2.51	0.44
18:CR:67:ILE:HG13	18:CR:82:ARG:CZ	2.46	0.44
26:CY:52:THR:O	26:CY:56:ARG:HG3	2.18	0.44
36:DI:56:THR:HA	36:DI:62:TYR:OH	2.16	0.44
25:A:206:A:H1'	25:A:262:U:C2	2.52	0.44
25:A:693:U:C5'	25:A:694:U:H5'	2.46	0.44
25:A:1387:G:OP1	66:S:33:ARG:NH1	2.50	0.44
25:A:1402:G:H2'	25:A:1403:C:O4'	2.17	0.44
25:A:1542:G:H5''	68:U:88:VAL:N	2.32	0.44
25:A:1584:G:H5'	65:R:123:ARG:H	1.83	0.44
52:E:192:PRO:O	52:E:195:SER:HB2	2.17	0.44
53:F:121:TYR:CD2	53:F:161:LYS:HE3	2.52	0.44
55:H:137:ARG:HG2	55:H:138:ALA:H	1.82	0.44
56:I:142:TYR:O	71:X:49:GLU:HB2	2.17	0.44
58:K:150:LEU:HB3	58:K:151:ASP:H	1.57	0.44
66:S:85:VAL:HG12	66:S:86:PRO:CA	2.46	0.44
67:T:41:ARG:NH1	68:U:38:LYS:HG3	2.32	0.44
81:h:112:SER:HB2	81:h:153:GLN:HA	1.99	0.44
50:s1:229:MET:HA	50:s1:232:HIS:HB2	1.99	0.44
54:s5:58:LEU:HD12	54:s5:138:THR:HG22	1.98	0.44
64:c5:25:LEU:HA	64:c5:28:MET:HE2	1.98	0.44
68:c9:113:ILE:HA	68:c9:128:GLY:HA3	2.00	0.44
70:d1:53:TYR:HD2	70:d1:69:LEU:HD22	1.82	0.44
1:1:316:U:O2'	38:AJ:30:LYS:HD2	2.17	0.44
1:1:370:U:C4	1:1:371:G:C6	3.06	0.44
1:1:700:C:OP1	14:t:65:TYR:OH	2.24	0.44
1:1:2314:U:O2'	1:1:2315:G:OP1	2.35	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2370:G:OP1	84:1:3493:OHX:N4	2.51	0.44
1:1:2874:G:O3'	86:1:4216:7MB:C	2.66	0.44
1:1:2987:A:O2'	5:k:259:HIS:HB3	2.16	0.44
5:k:56:ILE:HG13	5:k:359:ILE:HG12	2.00	0.44
6:l:311:HIS:NE2	6:l:314:LYS:HA	2.32	0.44
7:m:131:LEU:HD22	7:m:131:LEU:N	2.33	0.44
7:m:153:THR:HG23	7:m:160:PHE:CZ	2.52	0.44
11:q:104:VAL:HG22	11:q:113:GLU:HB2	1.99	0.44
11:q:120:ASP:OD2	11:q:124:ARG:NH2	2.50	0.44
16:v:104:GLU:O	16:v:108:ARG:HG3	2.16	0.44
23:5:98:THR:HG22	23:5:99:LYS:HG3	2.00	0.44
25:6:139:C:C2	25:6:176:C:C2	3.04	0.44
25:6:300:A:H2'	25:6:301:A:C8	2.53	0.44
25:6:628:G:N1	25:6:970:A:OP2	2.49	0.44
25:6:674:C:H2'	25:6:675:U:C6	2.51	0.44
25:6:973:A:H5'	1:AR:848:A:H2	1.83	0.44
84:6:1915:OHX:N5	84:6:2005:OHX:N3	2.66	0.44
29:AA:121:ARG:HG3	29:AA:126:LYS:HB2	1.99	0.44
33:AE:20:LEU:HA	33:AE:20:LEU:HD23	1.79	0.44
36:AH:11:ASN:HA	36:AH:12:PRO:HD3	1.80	0.44
38:AJ:25:LYS:HB2	38:AJ:28:TYR:HD1	1.81	0.44
42:AN:97:ARG:NH1	42:AN:122:ARG:HB3	2.31	0.44
1:AR:107:A:OP1	14:CN:39:ARG:HD3	2.17	0.44
1:AR:353:G:N7	39:DL:55:ARG:HD3	2.32	0.44
1:AR:742:G:N7	84:AR:3505:OHX:N4	2.66	0.44
1:AR:860:G:C5	4:CD:181:LYS:HB2	2.52	0.44
1:AR:1375:G:N3	1:AR:1407:A:H2	2.14	0.44
1:AR:1821:U:N3	36:DI:67:LYS:HD3	2.32	0.44
1:AR:1833:G:O2'	41:DN:4:GLN:HA	2.18	0.44
1:AR:3060:C:H1'	1:AR:3332:U:H1'	1.98	0.44
1:AR:3105:U:C4	1:AR:3129:A:C8	3.06	0.44
3:AT:141:C:H1'	16:CP:112:ASN:OD1	2.17	0.44
5:CE:68:HIS:CD2	5:CE:69:LYS:HE2	2.52	0.44
7:CG:204:VAL:O	7:CG:208:MET:HG3	2.18	0.44
10:CJ:97:TYR:HB3	10:CJ:131:ALA:HA	2.00	0.44
16:CP:36:ILE:HG12	16:CP:64:VAL:HG23	1.98	0.44
17:CQ:14:HIS:HD2	17:CQ:123:ALA:HB3	1.81	0.44
17:CQ:128:ARG:HD2	17:CQ:128:ARG:HA	1.60	0.44
26:CY:57:LYS:HB2	26:CY:57:LYS:HE3	1.70	0.44
28:DA:63:LYS:HA	28:DA:63:LYS:HD3	1.64	0.44
25:A:407:A:H2'	25:A:408:C:C6	2.53	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:542:A:H5''	25:A:544:A:C8	2.52	0.44
25:A:624:G:OP2	84:A:2035:OHX:N6	2.51	0.44
25:A:735:C:O2'	25:A:736:C:H5''	2.16	0.44
50:C:133:TYR:CE1	50:C:220:GLN:HB3	2.52	0.44
51:D:157:LYS:HD3	51:D:168:ARG:NH2	2.32	0.44
63:P:82:LYS:HD3	63:P:118:VAL:HG11	2.00	0.44
66:S:15:ALA:HA	66:S:18:GLU:HB2	1.99	0.44
75:b:41:ILE:HG22	75:b:68:TYR:HD2	1.82	0.44
49:s0:126:PRO:HA	49:s0:133:ILE:HD11	1.99	0.44
51:s2:141:ARG:H	51:s2:141:ARG:HG2	1.57	0.44
56:s7:48:GLU:HG2	56:s7:56:LYS:HD3	2.00	0.44
56:s7:67:LEU:HG	56:s7:94:ALA:HB2	2.00	0.44
60:c1:78:THR:HA	60:c1:84:ILE:HG22	1.99	0.44
60:c1:84:ILE:HG13	60:c1:109:VAL:HG13	1.99	0.44
70:d1:25:LYS:HB3	70:d1:25:LYS:HE2	1.77	0.44
79:e0:39:LEU:O	79:e0:43:ARG:HB2	2.18	0.44
1:l:304:G:H5'	1:l:304:G:N3	2.33	0.44
1:l:562:C:H2'	1:l:563:U:C6	2.52	0.44
1:l:1918:C:OP2	84:l:3552:OHX:N1	2.51	0.44
1:l:2280:A:H5''	1:l:2281:A:OP2	2.17	0.44
1:l:3351:U:O2'	1:l:3352:U:OP1	2.31	0.44
6:l:62:ALA:HB3	6:l:90:PHE:CE2	2.49	0.44
6:l:191:LYS:C	6:l:193:LYS:H	2.26	0.44
7:m:178:ASN:OD1	7:m:178:ASN:N	2.46	0.44
7:m:204:VAL:O	7:m:208:MET:HG3	2.17	0.44
13:s:23:VAL:HG12	13:s:25:GLU:H	1.83	0.44
17:w:73:PHE:CG	17:w:78:ARG:HG2	2.52	0.44
18:x:51:VAL:HA	18:x:56:ARG:O	2.18	0.44
18:x:65:SER:HA	18:x:80:LYS:NZ	2.33	0.44
25:6:66:U:O2	55:s6:160:ARG:NH2	2.44	0.44
25:6:649:U:H2'	25:6:650:U:C5	2.53	0.44
25:6:783:G:H2'	25:6:784:C:C6	2.52	0.44
25:6:1636:C:C2	25:6:1638:G:C5	3.05	0.44
32:AD:13:LYS:NZ	32:AD:103:THR:HG21	2.33	0.44
40:AL:14:LEU:O	40:AL:17:ARG:HB2	2.17	0.44
1:AR:1289:G:H2'	1:AR:1290:A:C8	2.51	0.44
1:AR:1831:U:OP2	27:CZ:92:LYS:HD3	2.17	0.44
1:AR:2796:G:C8	44:DQ:62:ALA:HB3	2.52	0.44
1:AR:2951:G:O3'	84:AR:3591:OHX:N2	2.51	0.44
1:AR:3255:U:H2'	1:AR:3256:G:H8	1.83	0.44
2:AS:36:C:H4'	7:CG:155:THR:HG23	1.98	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:5:ILE:HG21	4:CD:210:PRO:HD3	1.99	0.44
4:CD:180:LEU:HD23	4:CD:180:LEU:HA	1.73	0.44
6:CF:323:VAL:HG23	6:CF:326:ARG:NH2	2.32	0.44
9:CI:151:ARG:HD2	9:CI:244:ASN:OD1	2.17	0.44
10:CJ:144:GLU:O	10:CJ:173:MET:HE3	2.18	0.44
12:CL:41:ALA:O	12:CL:139:ARG:NH2	2.29	0.44
14:CN:46:ILE:O	14:CN:47:ALA:HB3	2.17	0.44
18:CR:21:TYR:H	18:CR:145:HIS:CE1	2.35	0.44
19:CS:28:LEU:HD23	19:CS:28:LEU:HA	1.77	0.44
20:CT:96:ILE:O	20:CT:100:ARG:HG3	2.18	0.44
35:DH:73:ARG:HG3	35:DH:82:ARG:HD2	1.98	0.44
36:DI:91:ARG:HG3	36:DI:95:ILE:HD13	1.99	0.44
44:DQ:93:LEU:HD23	44:DQ:93:LEU:H	1.83	0.44
25:A:332:U:P	57:J:56:ARG:HH22	2.41	0.44
25:A:538:A:C8	25:A:543:C:N4	2.86	0.44
25:A:650:U:O4	25:A:684:A:N6	2.49	0.44
25:A:773:C:OP1	53:F:22:LYS:N	2.50	0.44
25:A:965:U:H1'	62:O:128:TYR:CD2	2.53	0.44
25:A:1067:C:H5''	50:C:150:VAL:H	1.83	0.44
25:A:1142:A:H2'	25:A:1143:A:O4'	2.17	0.44
25:A:1622:G:H2'	25:A:1623:C:C6	2.53	0.44
25:A:1660:A:H2'	25:A:1661:U:C6	2.52	0.44
25:A:1682:U:O2'	25:A:1683:C:H5'	2.16	0.44
49:B:56:LYS:NZ	49:B:159:ALA:O	2.29	0.44
50:C:157:GLN:C	50:C:159:SER:H	2.25	0.44
56:I:15:GLU:O	56:I:19:GLN:HG2	2.17	0.44
57:J:193:LEU:HD23	57:J:193:LEU:HA	1.79	0.44
69:V:18:GLN:OE1	69:V:18:GLN:N	2.49	0.44
62:c3:74:ILE:O	62:c3:78:ASN:ND2	2.49	0.44
65:c6:45:ARG:O	65:c6:48:VAL:HG12	2.18	0.44
70:d1:9:VAL:O	70:d1:10:GLU:HB3	2.17	0.44
75:d6:12:LYS:NZ	75:d6:12:LYS:HB3	2.32	0.44
1:1:138:U:H2'	1:1:139:G:H8	1.82	0.44
1:1:424:G:O2'	34:AF:23:ASP:OD2	2.27	0.44
1:1:1730:G:O6	32:AD:29:SER:OG	2.35	0.44
1:1:1811:G:H2'	1:1:1812:G:O4'	2.16	0.44
1:1:2107:A:H1'	57:J:92:ARG:NH1	2.33	0.44
1:1:2707:C:H2'	1:1:2708:C:H6	1.81	0.44
1:1:3046:A:H2	5:k:327:CYS:HG	1.64	0.44
3:4:151:C:O2'	3:4:153:U:OP2	2.24	0.44
5:k:220:VAL:O	5:k:334:ARG:NH1	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:m:64:ILE:HG13	7:m:144:VAL:HG21	1.99	0.44
7:m:115:LEU:O	7:m:118:THR:O	2.35	0.44
8:n:42:LEU:O	8:n:49:GLY:N	2.39	0.44
12:r:80:SER:HB3	12:r:147:VAL:HG11	2.00	0.44
12:r:165:ILE:H	12:r:165:ILE:CD1	2.27	0.44
13:s:95:ASN:OD1	13:s:95:ASN:N	2.49	0.44
14:t:168:ARG:NH1	14:t:172:LEU:HD11	2.32	0.44
25:6:197:A:H61	57:s8:138:ASN:HD22	1.65	0.44
25:6:218:A:H2'	25:6:219:A:H5''	1.99	0.44
25:6:867:G:N7	84:6:1913:OHX:N4	2.65	0.44
25:6:1273:G:O5'	25:6:1274:C:H3'	2.17	0.44
45:AQ:5:THR:HB	45:AQ:8:VAL:HG22	2.00	0.44
1:AR:103:G:H5'	14:CN:65:TYR:CD2	2.53	0.44
1:AR:266:A:H2'	38:DK:30:LYS:HE2	1.99	0.44
1:AR:873:C:H2'	1:AR:875:G:O4'	2.17	0.44
1:AR:1383:G:O6	84:AR:3437:OHX:N2	2.51	0.44
1:AR:1546:A:N7	16:CP:71:ARG:NH1	2.65	0.44
1:AR:2148:U:H2'	1:AR:2149:A:C5	2.53	0.44
1:AR:2537:U:H1'	1:AR:2538:U:O4'	2.18	0.44
1:AR:3215:A:H5''	35:DH:2:ALA:HB2	2.00	0.44
3:AT:142:C:H2'	3:AT:143:U:C6	2.52	0.44
5:CE:187:SER:HB3	5:CE:190:GLU:OE1	2.17	0.44
5:CE:194:TRP:CE2	5:CE:198:HIS:CE1	3.06	0.44
5:CE:209:PHE:HB3	5:CE:282:ILE:CD1	2.47	0.44
11:CK:74:LEU:HA	11:CK:74:LEU:HD23	1.75	0.44
22:CV:96:ILE:HD12	22:CV:96:ILE:HA	1.80	0.44
38:DK:76:ARG:HA	38:DK:76:ARG:HE	1.83	0.44
38:DK:81:THR:HA	38:DK:84:LYS:HE3	1.99	0.44
25:A:158:U:O2'	25:A:159:U:H3'	2.18	0.44
25:A:533:U:H4'	73:Z:33:ALA:HB2	1.99	0.44
25:A:1517:U:OP2	25:A:1518:C:N4	2.39	0.44
25:A:1555:A:OP2	64:Q:47:ARG:NH2	2.50	0.44
25:A:1795:U:H4'	75:b:84:VAL:HG23	1.99	0.44
49:B:4:PRO:HG2	49:B:7:PHE:CD2	2.49	0.44
49:B:74:VAL:HG23	49:B:118:PRO:HB3	1.99	0.44
50:C:143:THR:HA	50:C:207:LEU:HA	2.00	0.44
53:F:180:LEU:HB2	53:F:229:GLY:C	2.42	0.44
58:K:38:ASN:CB	58:K:41:GLU:HG3	2.46	0.44
63:P:12:GLN:HB3	63:P:77:THR:OG1	2.18	0.44
72:Y:86:PHE:CE2	72:Y:88:PRO:HA	2.52	0.44
75:b:22:ARG:HD2	75:b:29:SER:HA	2.00	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
80:g:100:LEU:C	80:g:102:VAL:H	2.25	0.44
81:h:33:LEU:HB3	81:h:45:TRP:HB2	1.99	0.44
53:s4:100:ARG:NH2	53:s4:122:LYS:HA	2.33	0.44
54:s5:184:PHE:CE2	54:s5:185:ARG:HG3	2.52	0.44
55:s6:57:ASP:OD1	55:s6:61:PHE:N	2.45	0.44
61:c2:40:GLY:O	61:c2:124:LYS:N	2.42	0.44
61:c2:53:THR:O	61:c2:53:THR:OG1	2.31	0.44
64:c5:94:VAL:HG12	64:c5:96:ILE:HG12	1.99	0.44
73:d4:18:LEU:HD23	73:d4:18:LEU:HA	1.79	0.44
73:d4:52:LYS:H	73:d4:52:LYS:HG3	1.51	0.44
1:l:167:U:H2'	1:l:168:U:H6	1.81	0.44
1:l:3132:C:H2'	1:l:3133:C:C6	2.53	0.44
1:l:3369:G:HO2'	1:l:3370:A:H8	1.65	0.44
84:l:3568:OHX:N1	28:DA:44:GLY:O	2.50	0.44
6:l:3:ARG:HA	6:l:4:PRO:HD3	1.74	0.44
6:l:9:HIS:O	6:l:153:SER:N	2.50	0.44
11:q:164:ILE:HD12	11:q:164:ILE:HA	1.73	0.44
13:s:145:LYS:HE3	13:s:145:LYS:HB2	1.75	0.44
15:u:8:LYS:HB3	15:u:9:ALA:H	1.66	0.44
15:u:22:LEU:HD13	15:u:32:LEU:HD23	2.00	0.44
16:v:39:ALA:HB3	16:v:61:ILE:HG22	2.00	0.44
25:6:319:U:H1'	25:6:323:A:C4	2.53	0.44
25:6:848:C:H2'	25:6:849:C:C6	2.52	0.44
25:6:853:G:H2'	25:6:854:U:C6	2.53	0.44
25:6:1108:G:N1	72:d3:22:ASN:OD1	2.43	0.44
30:AB:56:VAL:HG23	30:AB:57:GLY:H	1.83	0.44
40:AL:69:LEU:HD13	40:AL:69:LEU:HA	1.84	0.44
1:AR:32:U:H2'	1:AR:33:G:O4'	2.18	0.44
1:AR:372:A:H2'	1:AR:373:A:C8	2.53	0.44
1:AR:632:G:H2'	1:AR:633:C:O4'	2.18	0.44
1:AR:662:U:OP1	30:DC:8:THR:HG21	2.18	0.44
1:AR:718:G:C2	1:AR:721:G:H1'	2.52	0.44
1:AR:817:A:N3	39:DL:11:ARG:HB3	2.33	0.44
1:AR:2263:C:H1'	1:AR:2264:U:H5'	1.98	0.44
1:AR:3376:A:H5'	1:AR:3377:G:H5''	2.00	0.44
10:CJ:29:SER:O	10:CJ:31:PRO:HD3	2.17	0.44
17:CQ:121:PRO:O	17:CQ:124:LEU:HB2	2.17	0.44
23:CW:29:ASP:OD2	23:CW:31:ALA:HB3	2.17	0.44
28:DA:36:SER:HB2	28:DA:37:LYS:HE2	2.00	0.44
25:A:832:U:H2'	25:A:833:U:O4'	2.18	0.44
25:A:992:A:C2	25:A:1012:U:N3	2.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1460:A:C4	64:Q:128:HIS:CD2	3.05	0.44
57:J:81:VAL:HG22	57:J:102:VAL:HG12	2.00	0.44
58:K:142:ASN:O	58:K:144:PRO:HD3	2.18	0.44
70:W:4:ASP:HB3	70:W:5:LYS:HD3	2.00	0.44
71:X:82:LYS:C	71:X:84:GLY:H	2.18	0.44
52:s3:164:VAL:O	52:s3:168:ILE:HG13	2.18	0.44
53:s4:174:LYS:HD2	53:s4:174:LYS:HA	1.86	0.44
55:s6:49:VAL:HB	55:s6:115:LYS:CG	2.47	0.44
57:s8:61:GLU:HG3	57:s8:62:THR:HG23	2.00	0.44
60:c1:75:VAL:CG1	60:c1:119:VAL:HA	2.48	0.44
63:c4:56:SER:HA	63:c4:57:PRO:HD3	1.86	0.44
65:c6:32:ASN:ND2	65:c6:69:VAL:HG23	2.32	0.44
65:c6:107:LYS:HA	65:c6:110:THR:HG22	2.00	0.44
69:d0:53:LYS:HB3	69:d0:92:ASP:HB2	2.00	0.44
70:d1:40:ASP:HB3	70:d1:46:ILE:HD11	1.98	0.44
73:d4:37:LYS:HA	73:d4:40:LEU:HD12	2.00	0.44
1:l:290:G:H5''	16:v:98:LEU:CD2	2.46	0.44
1:l:609:G:C8	6:l:310:THR:HG22	2.53	0.44
1:l:705:A:C4	1:l:715:A:C6	3.06	0.44
1:l:1064:A:H5''	1:l:1066:G:O4'	2.18	0.44
1:l:1676:A:P	23:5:73:GLY:H	2.41	0.44
1:l:2101:C:H4'	1:l:2102:U:OP1	2.17	0.44
1:l:2253:G:C2	1:l:2264:U:C2	3.05	0.44
6:l:158:SER:HA	6:l:213:ASN:HB2	2.00	0.44
10:p:36:ILE:O	10:p:38:GLN:N	2.51	0.44
10:p:247:ASP:O	10:p:251:LYS:HB2	2.17	0.44
12:r:86:HIS:HB3	12:r:139:ARG:CG	2.48	0.44
15:u:53:VAL:HA	15:u:54:PRO:HD3	1.78	0.44
19:y:157:PRO:HD3	30:AB:47:LYS:HB3	2.00	0.44
19:y:170:ARG:HH11	30:AB:57:GLY:H	1.65	0.44
21:0:46:GLN:HG2	21:0:51:VAL:O	2.17	0.44
23:5:34:ALA:O	23:5:38:ILE:HG13	2.18	0.44
25:6:396:G:N2	25:6:399:A:OP2	2.51	0.44
25:6:758:U:H5''	58:s9:7:THR:HG21	1.98	0.44
25:6:1022:C:H4'	25:6:1124:A:N6	2.33	0.44
25:6:1097:U:H4'	25:6:1098:U:O5'	2.17	0.44
28:9:56:VAL:HG11	28:9:104:LEU:HD13	1.98	0.44
30:AB:6:THR:OG1	30:AB:8:THR:HG23	2.18	0.44
30:AB:28:HIS:CE1	30:AB:32:ARG:NE	2.86	0.44
1:AR:96:G:O5'	14:CN:15:ARG:NH2	2.50	0.44
1:AR:1139:G:O3'	9:CI:94:LYS:HA	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2157:G:N1	1:AR:2178:A:OP2	2.38	0.44
84:AR:3443:OHX:N1	84:AR:3731:OHX:N4	2.65	0.44
6:CF:20:LEU:HA	6:CF:21:PRO:HD3	1.74	0.44
19:CS:98:LYS:HE3	19:CS:118:GLY:O	2.18	0.44
28:DA:71:SER:CB	28:DA:83:ASP:HB2	2.43	0.44
29:DB:81:LEU:HD22	29:DB:81:LEU:HA	1.66	0.44
25:A:263:C:H4'	25:A:292:U:H5'	1.98	0.44
25:A:826:U:H2'	25:A:827:C:C6	2.53	0.44
25:A:1324:G:N7	84:A:1961:OHX:N1	2.66	0.44
25:A:1486:G:H1'	25:A:1592:A:O2'	2.18	0.44
25:A:1643:U:H2'	25:A:1644:C:O4'	2.18	0.44
49:B:63:ILE:HG23	70:W:35:ASN:O	2.17	0.44
51:D:91:ARG:HE	51:D:91:ARG:HB3	1.67	0.44
54:G:213:LYS:O	54:G:217:LEU:HG	2.18	0.44
59:L:1:MET:HG2	59:L:2:LEU:N	2.32	0.44
60:M:81:HIS:O	60:M:83:THR:HG22	2.18	0.44
66:S:14:LYS:HZ3	66:S:18:GLU:CD	2.24	0.44
67:T:99:HIS:HD2	67:T:101:LEU:HD21	1.83	0.44
72:Y:142:LYS:HA	72:Y:143:PRO:HD3	1.83	0.44
74:a:60:VAL:HA	74:a:64:VAL:HG11	1.99	0.44
75:b:28:LYS:HG2	75:b:29:SER:O	2.18	0.44
80:g:89:LYS:HB3	80:g:90:LYS:H	1.63	0.44
49:s0:200:ASP:OD2	82:c7:89:SER:HB3	2.18	0.44
50:s1:70:LEU:HB3	50:s1:79:HIS:HB2	2.00	0.44
50:s1:88:VAL:HA	50:s1:98:THR:HG22	1.99	0.44
54:s5:149:VAL:CG1	54:s5:156:ARG:HG3	2.48	0.44
58:s9:78:ARG:HG3	58:s9:79:ARG:N	2.33	0.44
60:c1:74:THR:HB	60:c1:122:ILE:HD13	1.98	0.44
65:c6:113:ASP:OD2	65:c6:115:THR:O	2.35	0.44
67:c8:140:THR:O	67:c8:143:ARG:HD3	2.17	0.44
71:d2:103:ILE:HD13	71:d2:126:LEU:HB2	2.00	0.44
75:d6:30:ILE:HD13	75:d6:74:CYS:HA	1.99	0.44
76:d7:7:LEU:O	76:d7:10:PRO:HD3	2.18	0.44
1:1:1230:G:H1	1:1:1279:C:N4	2.11	0.44
1:1:1342:C:O2'	1:1:1343:A:H5'	2.18	0.44
1:1:1479:U:O2'	1:1:1484:U:H2'	2.18	0.44
1:1:1927:G:OP1	45:AQ:8:VAL:HG13	2.18	0.44
1:1:2357:A:OP1	84:1:3515:OHX:N2	2.51	0.44
1:1:2415:C:H5''	4:j:207:VAL:HG13	2.00	0.44
1:1:2698:G:O2'	22:2:12:ARG:HG3	2.17	0.44
3:4:124:G:H3'	3:4:125:U:C5'	2.47	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:173:GLN:O	5:k:175:LYS:N	2.51	0.44
10:p:106:LYS:C	10:p:106:LYS:HE2	2.43	0.44
14:t:46:ILE:HG22	14:t:46:ILE:O	2.17	0.44
17:w:152:VAL:O	17:w:156:LEU:HG	2.16	0.44
18:x:60:PHE:CE1	18:x:82:ARG:HB2	2.53	0.44
20:z:104:ARG:HB3	20:z:104:ARG:HH11	1.83	0.44
21:0:132:THR:C	21:0:134:ASP:H	2.25	0.44
21:0:167:ARG:HA	21:0:168:PRO:HD2	1.67	0.44
25:6:78:A:H1'	55:s6:175:ILE:HG12	1.99	0.44
25:6:703:G:H1	25:6:735:C:H42	1.64	0.44
25:6:1614:A:O2'	25:6:1615:C:H5'	2.18	0.44
27:8:142:ILE:HD13	27:8:142:ILE:HA	1.85	0.44
32:AD:17:VAL:HG21	32:AD:100:ILE:HD13	1.98	0.44
34:AF:64:LYS:O	34:AF:65:PHE:HB2	2.17	0.44
40:AL:27:ILE:HB	40:AL:78:LEU:HD11	1.99	0.44
1:AR:112:U:O2'	1:AR:113:C:OP2	2.25	0.44
1:AR:160:G:N2	1:AR:262:U:C2	2.86	0.44
1:AR:1048:A:H2'	12:CL:22:TYR:CZ	2.53	0.44
1:AR:1054:A:H5''	1:AR:2637:A:N6	2.32	0.44
1:AR:1138:U:H2'	1:AR:1139:G:C8	2.51	0.44
1:AR:1794:G:O2'	1:AR:1795:U:H5'	2.18	0.44
1:AR:1801:U:H2'	1:AR:1802:C:C6	2.53	0.44
1:AR:1908:A:H8	1:AR:1908:A:O5'	2.00	0.44
1:AR:2946:A:H5''	1:AR:2947:G:H5'	2.00	0.44
5:CE:77:THR:CG2	5:CE:327:CYS:HA	2.47	0.44
7:CG:211:LEU:HD23	7:CG:211:LEU:HA	1.87	0.44
8:CH:129:GLU:HB2	8:CH:130:ILE:H	1.55	0.44
9:CI:88:ARG:NH1	9:CI:91:GLY:O	2.50	0.44
11:CK:29:GLY:HA3	11:CK:82:VAL:HG13	1.98	0.44
12:CL:176:LEU:HD12	12:CL:181:TYR:HD1	1.83	0.44
15:CO:24:LYS:HE3	15:CO:61:GLY:O	2.18	0.44
17:CQ:12:LYS:HG3	17:CQ:40:GLU:HB3	1.99	0.44
18:CR:32:THR:HG22	18:CR:84:PRO:HG2	1.99	0.44
19:CS:124:LEU:HA	19:CS:124:LEU:HD23	1.73	0.44
34:DG:82:LEU:HD11	34:DG:112:ALA:HB2	2.00	0.44
25:A:248:U:O2'	25:A:249:U:H2'	2.18	0.44
25:A:473:A:H5'	25:A:769:A:H1'	2.00	0.44
25:A:602:U:H2'	25:A:603:U:H6	1.83	0.44
25:A:1188:G:O2'	25:A:1430:U:OP1	2.30	0.44
25:A:1233:G:O2'	80:g:145:HIS:HB2	2.17	0.44
25:A:1267:G:H21	25:A:1448:G:H5'	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1285:U:OP1	84:A:1992:OHX:N4	2.51	0.44
53:F:71:LYS:HG3	53:F:91:THR:HB	1.98	0.44
60:M:109:VAL:HG23	60:M:137:PHE:C	2.42	0.44
61:N:97:LEU:HA	61:N:100:TRP:CE3	2.53	0.44
66:S:88:VAL:HG13	66:S:89:SER:H	1.83	0.44
67:T:86:LEU:HD12	67:T:99:HIS:CG	2.53	0.44
72:Y:24:TRP:CE3	72:Y:30:LYS:HD2	2.52	0.44
73:Z:50:ALA:O	73:Z:51:GLU:HG2	2.18	0.44
74:a:38:HIS:CD2	74:a:39:ALA:H	2.36	0.44
77:d:19:THR:OG1	77:d:27:GLN:HG3	2.18	0.44
81:h:224:ASN:HB2	81:h:231:MET:HE3	1.99	0.44
49:s0:63:ILE:HD12	49:s0:158:VAL:HG11	1.99	0.44
49:s0:108:THR:HA	51:s2:64:LYS:HE3	2.00	0.44
58:s9:182:GLU:H	58:s9:182:GLU:HG3	1.58	0.44
63:c4:50:ALA:O	63:c4:52:ARG:N	2.49	0.44
1:l:3283:U:H2'	1:l:3284:G:C8	2.53	0.44
5:k:144:ILE:O	5:k:148:LEU:HB2	2.18	0.44
6:l:138:ARG:NH2	6:l:240:PRO:HB2	2.33	0.44
10:p:36:ILE:O	10:p:38:GLN:HG2	2.18	0.44
13:s:29:ARG:HA	13:s:32:ARG:NH2	2.33	0.44
22:2:14:MET:HB3	22:2:14:MET:HE2	1.76	0.44
25:6:84:A:H2'	25:6:85:A:O4'	2.18	0.44
25:6:205:U:O4	84:6:1985:OHX:N6	2.51	0.44
25:6:404:G:H2'	25:6:405:C:C6	2.52	0.44
25:6:542:A:H3'	25:6:542:A:P	2.56	0.44
25:6:967:A:C5	25:6:968:U:C4	3.06	0.44
25:6:1773:C:OP1	43:DP:3:ALA:HB3	2.18	0.44
25:6:1782:A:OP1	43:DP:9:ARG:NH1	2.51	0.44
46:i:89:ARG:HD2	46:i:89:ARG:HA	1.66	0.44
1:AR:117:U:C4	10:CJ:142:LEU:HD23	2.53	0.44
1:AR:670:C:OP1	19:CS:147:ARG:NH2	2.44	0.44
1:AR:987:U:C2	1:AR:1098:A:C2	3.06	0.44
1:AR:1302:A:N7	1:AR:2857:C:O2'	2.50	0.44
1:AR:1374:G:O6	30:DC:10:LYS:HE2	2.17	0.44
1:AR:1613:A:H2'	1:AR:1614:C:H6	1.82	0.44
1:AR:1825:G:OP1	40:DM:49:SER:OG	2.36	0.44
1:AR:2689:A:C8	1:AR:2702:A:N6	2.86	0.44
1:AR:2734:A:O2'	1:AR:2735:U:H5'	2.18	0.44
1:AR:2903:A:H2'	1:AR:2904:U:O4'	2.17	0.44
1:AR:3301:U:O4	84:AR:3427:OHX:N3	2.51	0.44
4:CD:58:LEU:HD22	4:CD:76:PHE:O	2.17	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:CJ:143:ILE:HG23	10:CJ:175:VAL:HG21	1.99	0.44
11:CK:101:VAL:O	84:CK:201:OHX:N6	2.51	0.44
14:CN:165:SER:O	14:CN:165:SER:OG	2.35	0.44
17:CQ:116:LYS:HG2	17:CQ:117:ARG:N	2.33	0.44
21:CU:42:TRP:O	21:CU:46:GLN:HG3	2.17	0.44
22:CV:27:LEU:HD22	22:CV:27:LEU:HA	1.82	0.44
33:DF:16:LEU:HD12	33:DF:16:LEU:HA	1.58	0.44
40:DM:20:VAL:HG11	40:DM:45:VAL:HG12	2.00	0.44
25:A:97:C:H2'	25:A:98:U:C6	2.53	0.44
25:A:427:C:C4	25:A:428:A:N7	2.86	0.44
25:A:480:G:N1	25:A:509:G:N3	2.66	0.44
25:A:736:C:C4	25:A:737:A:N7	2.86	0.44
25:A:1294:G:N7	84:A:1955:OHX:N4	2.65	0.44
25:A:1413:U:H4'	25:A:1414:U:OP2	2.18	0.44
54:G:26:ALA:HB2	65:R:26:LYS:HG3	2.00	0.44
57:J:63:GLY:HA3	57:J:179:CYS:O	2.18	0.44
62:O:102:LEU:HD23	62:O:102:LEU:HA	1.82	0.44
77:d:30:VAL:HG22	77:d:40:ILE:O	2.18	0.44
50:s1:149:GLN:HE21	50:s1:151:LYS:HG3	1.83	0.44
52:s3:196:ARG:HB3	52:s3:197:THR:H	1.62	0.44
54:s5:44:ASN:O	54:s5:45:LYS:HG2	2.18	0.44
62:c3:55:ARG:HA	62:c3:60:VAL:O	2.18	0.44
64:c5:24:LYS:O	64:c5:28:MET:HG3	2.18	0.44
65:c6:52:LEU:HD23	65:c6:60:PHE:CE2	2.53	0.44
68:c9:14:PHE:HZ	68:c9:132:LEU:HD22	1.82	0.44
70:d1:14:PRO:HB2	70:d1:23:ILE:HG23	1.99	0.44
83:e1:103:LEU:HD23	83:e1:105:TYR:CD1	2.51	0.44
1:1:397:A:H5''	1:1:398:A:H5'	2.00	0.43
1:1:551:A:O2'	1:1:552:G:H8	2.01	0.43
1:1:914:A:N3	4:j:204:MET:HB3	2.33	0.43
1:1:1043:C:O3'	12:r:90:ARG:NH1	2.51	0.43
1:1:1388:U:O4	6:l:186:LYS:HD2	2.18	0.43
1:1:1591:G:OP1	36:AH:16:ARG:NH1	2.51	0.43
1:1:2443:A:N6	1:1:2503:G:C2	2.86	0.43
3:4:19:C:H2'	3:4:20:U:O4'	2.18	0.43
3:4:67:U:H2'	3:4:68:G:H8	1.83	0.43
3:4:141:C:H4'	16:v:110:ALA:HB2	1.99	0.43
4:j:112:ILE:HG23	4:j:133:TYR:CD2	2.52	0.43
6:l:209:TYR:O	6:l:230:VAL:HG22	2.18	0.43
6:l:269:SER:C	6:l:271:LYS:H	2.25	0.43
8:n:159:LEU:HA	8:n:159:LEU:HD23	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:s:34:SER:HB2	13:s:67:VAL:HG11	1.99	0.43
16:v:199:LEU:HB3	16:v:203:ARG:NE	2.33	0.43
17:w:32:LYS:O	17:w:33:ILE:HD12	2.17	0.43
25:6:942:G:C6	25:6:943:C:C4	3.06	0.43
25:6:1153:G:OP1	75:d6:85:ARG:NH1	2.52	0.43
25:6:1418:G:N7	84:6:1902:OHX:N4	2.66	0.43
25:6:1516:A:H5''	69:d0:58:LEU:HD22	1.99	0.43
35:AG:7:LEU:HD23	35:AG:7:LEU:HA	1.77	0.43
39:AK:88:ALA:O	84:AK:102:OHX:N4	2.51	0.43
42:AN:94:SER:OG	42:AN:104:PRO:O	2.36	0.43
1:AR:20:A:C6	1:AR:21:G:C6	3.06	0.43
1:AR:581:U:O4	84:AR:3526:OHX:N6	2.51	0.43
1:AR:748:U:H2'	1:AR:749:C:C6	2.53	0.43
1:AR:1070:U:H2'	1:AR:1071:U:O4'	2.18	0.43
1:AR:1174:G:H1'	1:AR:1181:U:N3	2.33	0.43
1:AR:1495:U:H2'	1:AR:1496:C:H5'	2.00	0.43
1:AR:2103:U:H2'	1:AR:2104:A:C8	2.52	0.43
1:AR:2355:G:H4'	18:CR:139:TYR:CD1	2.53	0.43
1:AR:2373:A:O2'	1:AR:2374:C:OP1	2.29	0.43
1:AR:3049:A:H5'	1:AR:3049:A:H8	1.83	0.43
1:AR:3372:A:C5	1:AR:3373:U:C5	3.06	0.43
7:CG:114:GLY:C	7:CG:116:ASP:H	2.25	0.43
9:CI:80:GLN:HG3	22:CV:136:ARG:HB2	2.00	0.43
9:CI:89:ILE:HG23	9:CI:219:LYS:HE3	1.99	0.43
11:CK:48:VAL:HG13	11:CK:52:LEU:HB3	1.99	0.43
12:CL:4:ARG:HG2	12:CL:5:PRO:HD2	2.00	0.43
14:CN:91:ARG:CZ	14:CN:97:VAL:HB	2.48	0.43
27:CZ:58:ASP:O	27:CZ:62:VAL:HG23	2.18	0.43
27:CZ:105:VAL:HG11	27:CZ:126:LEU:HD22	2.00	0.43
28:DA:63:LYS:HE3	28:DA:97:ILE:HD12	1.99	0.43
31:DD:23:LYS:HD2	31:DD:23:LYS:HA	1.65	0.43
34:DG:77:ALA:HB3	34:DG:81:ASP:OD2	2.18	0.43
36:DI:25:THR:HG23	36:DI:29:ILE:O	2.18	0.43
25:A:269:G:C6	25:A:287:G:N1	2.86	0.43
25:A:1565:C:OP1	67:T:41:ARG:HG3	2.19	0.43
51:D:80:VAL:HA	51:D:102:VAL:HG22	1.99	0.43
51:D:148:LEU:HB3	51:D:149:GLY:H	1.70	0.43
52:E:28:GLU:OE2	59:L:56:LYS:NZ	2.42	0.43
55:H:55:GLY:CA	55:H:63:MET:HE3	2.48	0.43
56:I:41:LEU:HD13	56:I:70:PHE:CD1	2.53	0.43
56:I:73:VAL:O	56:I:75:THR:N	2.41	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
57:J:65:PHE:O	57:J:109:PHE:HZ	2.01	0.43
68:U:61:VAL:HG21	68:U:104:VAL:HG11	2.00	0.43
81:h:83:ALA:HA	81:h:89:LEU:HD23	2.00	0.43
51:s2:40:LYS:HG3	51:s2:247:ALA:HB1	1.99	0.43
54:s5:128:ASN:O	54:s5:132:VAL:HG23	2.18	0.43
71:d2:20:THR:OG1	71:d2:22:LYS:HD3	2.18	0.43
74:d5:60:VAL:HG13	74:d5:101:TYR:HB2	1.99	0.43
1:1:372:A:H8	1:1:372:A:O5'	2.00	0.43
1:1:608:A:H5''	1:1:609:G:OP2	2.18	0.43
1:1:796:U:H2'	1:1:797:U:C6	2.53	0.43
1:1:1027:A:H2'	1:1:1029:G:H5''	1.99	0.43
1:1:1404:G:C6	1:1:1408:G:C6	3.05	0.43
1:1:1439:U:H2'	1:1:1440:G:H8	1.83	0.43
1:1:1743:G:O6	84:1:3632:OHX:N2	2.51	0.43
1:1:3185:U:H5''	11:q:23:ARG:NH1	2.33	0.43
4:j:180:LEU:HD23	4:j:180:LEU:HA	1.57	0.43
4:j:181:LYS:HG3	4:j:184:ARG:HG2	1.99	0.43
8:n:98:VAL:HA	8:n:101:PHE:CD2	2.53	0.43
12:r:3:ARG:NH2	12:r:63:GLU:HG3	2.33	0.43
16:v:84:PRO:HA	16:v:87:GLN:HG3	2.00	0.43
20:z:108:LYS:HE2	20:z:108:LYS:HB3	1.81	0.43
21:0:1:MET:HE1	21:0:32:SER:N	2.33	0.43
24:l2:10:LYS:HE2	24:l2:10:LYS:HB3	1.79	0.43
24:l2:20:GLY:HA2	24:l2:35:TYR:CE1	2.53	0.43
25:6:1292:G:C5	25:6:1293:U:C4	3.06	0.43
30:AB:132:LYS:O	30:AB:136:GLU:HG3	2.17	0.43
34:AF:21:HIS:CE1	34:AF:24:ARG:HD2	2.53	0.43
35:AG:11:GLY:O	35:AG:98:VAL:N	2.50	0.43
36:AH:103:LYS:HA	36:AH:103:LYS:HD3	1.72	0.43
37:AI:68:GLN:HG3	28:DA:126:LEU:O	2.18	0.43
1:AR:83:U:H2'	1:AR:84:U:O4'	2.18	0.43
1:AR:437:G:P	1:AR:437:G:H8	2.40	0.43
1:AR:1751:G:N7	40:DM:44:LYS:NZ	2.66	0.43
1:AR:1852:G:N7	84:AR:3542:OHX:N6	2.66	0.43
1:AR:2986:U:H2'	1:AR:2987:A:H8	1.84	0.43
1:AR:3229:G:H1'	15:CO:133:LYS:HG2	1.99	0.43
1:AR:3356:G:H2'	1:AR:3357:U:C6	2.52	0.43
4:CD:66:PRO:HB2	4:CD:67:TYR:CE1	2.53	0.43
4:CD:132:ASN:ND2	4:CD:151:PRO:HB3	2.33	0.43
5:CE:361:THR:HG23	5:CE:371:GLN:O	2.18	0.43
6:CF:22:LEU:HA	6:CF:23:PRO:HD3	1.78	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:324:LEU:O	6:CF:324:LEU:HD12	2.18	0.43
6:CF:361:HIS:O	21:CU:26:ARG:NH2	2.47	0.43
8:CH:50:LYS:HE3	8:CH:72:ASN:HB2	2.00	0.43
21:CU:137:ARG:HG2	21:CU:139:TYR:OH	2.18	0.43
22:CV:11:THR:HG22	22:CV:14:MET:HE2	2.00	0.43
30:DC:75:LEU:HB3	30:DC:118:ILE:CG2	2.48	0.43
35:DH:103:TYR:HA	35:DH:104:PRO:C	2.44	0.43
40:DM:12:LEU:O	40:DM:15:THR:OG1	2.30	0.43
25:A:213:A:OP2	84:M:201:OHX:N1	2.50	0.43
25:A:986:G:H2'	25:A:987:G:O4'	2.17	0.43
25:A:1330:G:H2'	25:A:1331:A:O4'	2.18	0.43
25:A:1340:U:H4'	25:A:1341:A:H5''	2.00	0.43
25:A:1437:U:H5'	52:E:176:LEU:HD23	2.00	0.43
25:A:1475:A:H61	25:A:1532:U:H3	1.66	0.43
25:A:1476:C:H5''	68:U:44:GLU:CD	2.43	0.43
51:D:40:LYS:HG2	51:D:43:ARG:HH12	1.82	0.43
51:D:137:ILE:HD11	70:W:27:ASP:OD2	2.18	0.43
53:F:45:ILE:HA	53:F:61:VAL:HG11	2.00	0.43
53:F:106:LYS:O	53:F:187:ARG:NH2	2.50	0.43
59:L:77:ARG:HA	59:L:82:LEU:HD11	1.99	0.43
60:M:7:VAL:C	60:M:9:SER:H	2.25	0.43
65:R:86:ALA:O	65:R:90:VAL:HG13	2.19	0.43
75:b:11:ASN:O	75:b:33:ASP:HB2	2.17	0.43
50:s1:77:GLU:O	50:s1:80:SER:OG	2.35	0.43
54:s5:43:PHE:HB3	54:s5:46:TRP:CD1	2.53	0.43
56:s7:126:LEU:HD13	56:s7:173:TYR:CD2	2.53	0.43
56:s7:130:VAL:HG11	56:s7:154:LEU:HD21	1.98	0.43
59:c0:44:LYS:HD3	59:c0:44:LYS:HA	1.64	0.43
60:c1:46:LYS:O	60:c1:50:GLU:HG2	2.19	0.43
63:c4:84:ARG:HA	63:c4:119:THR:HG22	2.00	0.43
69:d0:53:LYS:HA	69:d0:53:LYS:HD3	1.62	0.43
72:d3:57:LEU:HD13	79:e0:4:VAL:HG22	1.99	0.43
73:d4:60:PHE:CD2	73:d4:71:GLY:HA3	2.53	0.43
1:1:204:A:C6	1:1:205:C:C4	3.06	0.43
1:1:601:U:H2'	1:1:602:A:O4'	2.18	0.43
1:1:1135:A:C2	1:1:1136:A:C8	3.05	0.43
1:1:1350:A:H2'	1:1:1351:U:H6	1.83	0.43
1:1:1495:U:H5	1:1:1835:A:N1	2.15	0.43
1:1:1845:G:O2'	39:AK:5:THR:HG22	2.18	0.43
1:1:2689:A:C8	1:1:2702:A:C6	3.06	0.43
1:1:3041:U:H2'	1:1:3042:U:C6	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3312:U:H2'	1:1:3313:U:H5''	2.00	0.43
4:j:132:ASN:ND2	4:j:151:PRO:HB3	2.33	0.43
5:k:284:ARG:NH2	5:k:295:ALA:O	2.51	0.43
8:n:89:THR:HG21	15:u:115:PHE:HB2	2.01	0.43
9:o:132:PRO:HA	9:o:229:PHE:CD1	2.53	0.43
11:q:4:ILE:HD11	21:0:150:PHE:CD1	2.54	0.43
14:t:105:ASN:ND2	38:Aj:17:VAL:HG21	2.33	0.43
15:u:85:TRP:CD1	15:u:90:VAL:HG13	2.53	0.43
23:5:25:ASN:N	23:5:25:ASN:OD1	2.52	0.43
25:6:138:A:H61	25:6:266:A:H61	1.64	0.43
25:6:560:U:H2'	25:6:561:G:H8	1.83	0.43
25:6:627:C:H2'	25:6:628:G:O4'	2.19	0.43
25:6:826:U:H2'	25:6:827:C:C6	2.54	0.43
25:6:1371:A:H5'	25:6:1372:U:OP2	2.18	0.43
25:6:1642:G:H4'	43:DP:9:ARG:HH22	1.83	0.43
32:AD:27:TYR:OH	32:AD:55:GLU:OE1	2.34	0.43
38:Aj:15:LYS:O	38:Aj:17:VAL:HG12	2.18	0.43
1:AR:313:A:C6	1:AR:314:U:C4	3.06	0.43
1:AR:574:U:H2'	1:AR:575:G:C8	2.54	0.43
1:AR:722:G:N7	84:AR:3515:OHX:N3	2.66	0.43
1:AR:1018:G:C5'	48:sM:46:LYS:HA	2.47	0.43
1:AR:1404:G:N2	1:AR:1407:A:OP2	2.42	0.43
1:AR:1661:G:N7	84:AR:3420:OHX:N1	2.67	0.43
1:AR:1714:A:C5	1:AR:1728:G:C6	3.06	0.43
1:AR:1927:G:OP1	45:DR:8:VAL:HG22	2.18	0.43
1:AR:2202:C:H2'	1:AR:2203:U:O4'	2.18	0.43
1:AR:2689:A:H2'	1:AR:2689:A:N3	2.33	0.43
2:AS:49:G:N7	7:CG:58:LYS:HG3	2.32	0.43
6:CF:3:ARG:O	6:CF:5:GLN:HG2	2.19	0.43
6:CF:140:HIS:CG	6:CF:247:PHE:HB2	2.53	0.43
6:CF:181:VAL:C	6:CF:183:LYS:H	2.24	0.43
9:CI:77:VAL:HG13	22:CV:139:ARG:O	2.18	0.43
9:CI:127:LEU:HD13	9:CI:136:TYR:CE2	2.53	0.43
10:CJ:160:ILE:O	10:CJ:164:VAL:HG13	2.18	0.43
20:CT:95:TRP:CZ2	20:CT:99:LEU:HG	2.54	0.43
25:A:138:A:C6	25:A:142:G:H1'	2.53	0.43
25:A:1151:A:H2'	25:A:1152:A:C8	2.54	0.43
50:C:30:PHE:CZ	50:C:94:LYS:HA	2.54	0.43
50:C:122:GLU:O	50:C:165:ARG:HD3	2.18	0.43
55:H:14:LYS:HD3	55:H:16:PHE:CZ	2.53	0.43
56:I:35:LYS:C	56:I:37:GLU:H	2.27	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
61:N:63:VAL:HG11	61:N:94:ALA:HA	2.00	0.43
69:V:28:SER:HB2	69:V:112:VAL:HA	1.98	0.43
76:c:54:VAL:O	76:c:63:LEU:HB2	2.17	0.43
50:s1:124:ASN:HB3	50:s1:138:PHE:CD2	2.53	0.43
51:s2:157:LYS:HG2	51:s2:170:ILE:HG23	1.99	0.43
52:s3:127:MET:HE1	52:s3:133:GLY:HA2	1.99	0.43
57:s8:113:PHE:O	57:s8:117:TYR:HB2	2.19	0.43
64:c5:18:ARG:NH2	64:c5:38:PRO:HG3	2.33	0.43
67:c8:4:VAL:HG21	74:d5:82:HIS:CE1	2.53	0.43
68:c9:53:TRP:CH2	68:c9:100:ILE:HD12	2.49	0.43
71:d2:8:ALA:CB	71:d2:74:VAL:HG11	2.48	0.43
71:d2:34:ILE:O	71:d2:38:LEU:HG	2.17	0.43
72:d3:92:CYS:O	72:d3:95:PHE:HB2	2.18	0.43
75:d6:28:LYS:HG2	75:d6:29:SER:O	2.19	0.43
83:e1:121:CYS:HB2	83:e1:132:LEU:HD21	2.00	0.43
1:1:419:G:N7	84:1:3410:OHX:N3	2.66	0.43
1:1:1140:G:H2'	1:1:1141:C:C6	2.53	0.43
1:1:1729:A:H5'	32:AD:52:ARG:HH12	1.84	0.43
1:1:2693:C:OP1	46:i:34:LYS:HD2	2.19	0.43
1:1:2767:U:O2'	44:AP:30:ALA:O	2.27	0.43
1:1:3087:A:H2'	1:1:3088:G:O4'	2.17	0.43
3:4:41:A:H61	3:4:103:G:C2'	2.31	0.43
4:j:245:LEU:HG	4:j:247:ARG:HD3	2.00	0.43
6:l:338:LYS:C	6:l:340:GLY:N	2.77	0.43
7:m:39:GLN:OE1	7:m:40:HIS:N	2.46	0.43
9:o:118:LYS:HG3	9:o:191:VAL:HG11	2.00	0.43
13:s:82:ARG:HG3	13:s:112:LEU:HB2	2.00	0.43
15:u:46:ILE:HD13	15:u:58:ILE:HG21	2.00	0.43
15:u:60:LEU:HD23	15:u:60:LEU:HA	1.90	0.43
15:u:99:TRP:O	15:u:103:ILE:HG13	2.18	0.43
16:v:197:LEU:HG	16:v:199:LEU:HD21	2.00	0.43
22:2:57:TYR:CD1	22:2:89:LEU:HD21	2.53	0.43
25:6:249:U:H5	60:c1:34:TRP:CE2	2.36	0.43
25:6:1036:A:H1'	71:d2:9:ASP:OD1	2.18	0.43
25:6:1185:U:H1'	25:6:1456:C:H5'	2.00	0.43
25:6:1270:G:C2	25:6:1271:G:C8	3.06	0.43
1:AR:62:A:H2'	1:AR:63:A:C8	2.53	0.43
1:AR:95:A:H5''	30:DC:34:MET:HB2	1.99	0.43
1:AR:370:U:H4'	1:AR:404:G:H5'	1.99	0.43
1:AR:398:A:H1'	1:AR:1416:C:OP1	2.18	0.43
1:AR:701:G:H2'	1:AR:702:C:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2799:A:O5'	1:AR:2799:A:H8	2.01	0.43
1:AR:2821:C:C5	1:AR:2822:U:C5	3.07	0.43
1:AR:3390:G:C2	1:AR:3391:A:C8	3.07	0.43
2:AS:49:G:C6	7:CG:58:LYS:HG3	2.52	0.43
3:AT:67:U:H2'	3:AT:68:G:H8	1.83	0.43
4:CD:45:VAL:HG12	4:CD:88:ILE:CD1	2.48	0.43
5:CE:66:LYS:CE	24:CX:120:LYS:HZ3	2.31	0.43
5:CE:81:THR:HB	5:CE:205:VAL:HG21	2.00	0.43
5:CE:162:VAL:O	5:CE:178:LEU:HD12	2.19	0.43
5:CE:346:THR:O	5:CE:348:ARG:N	2.52	0.43
11:CK:31:ARG:HG2	11:CK:149:ASN:CG	2.43	0.43
15:CO:113:THR:HG22	15:CO:116:GLU:OE1	2.19	0.43
16:CP:119:TYR:CE1	16:CP:131:GLU:HB2	2.53	0.43
17:CQ:46:GLU:HB3	17:CQ:134:LYS:HG2	2.00	0.43
18:CR:64:ASN:O	18:CR:67:ILE:HB	2.18	0.43
20:CT:77:GLY:O	20:CT:81:ARG:HD2	2.18	0.43
24:CX:87:ARG:HH22	24:CX:137:VAL:CG2	2.22	0.43
32:DE:41:LEU:HD22	32:DE:42:ILE:N	2.33	0.43
33:DF:20:LEU:HD22	33:DF:31:ARG:HB3	2.01	0.43
34:DG:76:VAL:HG21	34:DG:94:ALA:HB1	2.00	0.43
35:DH:38:PRO:HD3	35:DH:77:ASN:O	2.18	0.43
40:DM:3:ARG:O	40:DM:52:TYR:HA	2.18	0.43
47:p0:198:PRO:C	47:p0:200:SER:H	2.27	0.43
25:A:129:U:O2	84:A:1912:OHX:N1	2.51	0.43
25:A:138:A:H62	25:A:266:A:H61	1.65	0.43
25:A:635:A:N6	25:A:964:U:C4	2.86	0.43
25:A:1756:A:H8	25:A:1756:A:OP2	2.02	0.43
50:C:27:LYS:NZ	50:C:48:VAL:O	2.33	0.43
52:E:113:LEU:HA	52:E:113:LEU:HD23	1.74	0.43
55:H:25:ARG:HA	55:H:28:PHE:CD2	2.54	0.43
58:K:13:SER:HB2	58:K:47:PHE:HD1	1.83	0.43
60:M:57:LYS:HB2	60:M:110:HIS:CE1	2.53	0.43
62:O:92:ILE:O	62:O:96:VAL:HG23	2.18	0.43
64:Q:15:HIS:H	64:Q:22:LEU:HD23	1.83	0.43
67:T:2:SER:HB2	67:T:3:LEU:HD13	2.00	0.43
67:T:29:VAL:HG22	67:T:54:LEU:HD12	2.01	0.43
69:V:87:HIS:HB3	69:V:89:ARG:NH1	2.33	0.43
49:s0:150:ASP:CG	49:s0:165:ARG:HH22	2.25	0.43
55:s6:78:THR:HG22	55:s6:79:LYS:H	1.84	0.43
63:c4:116:GLU:HG2	63:c4:117:ASP:N	2.34	0.43
64:c5:105:VAL:HG12	64:c5:106:GLU:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
81:sR:305:TYR:CD1	81:sR:311:ARG:HD2	2.53	0.43
1:1:608:A:N6	8:n:22:ARG:HD3	2.34	0.43
1:1:634:C:H4'	34:AF:47:ARG:NH1	2.34	0.43
1:1:1286:A:N3	1:1:1287:A:H1'	2.34	0.43
1:1:1308:A:N1	1:1:2381:G:O2'	2.42	0.43
1:1:1558:A:O2'	27:8:34:LEU:HD23	2.18	0.43
1:1:1577:G:H2'	1:1:1578:C:O4'	2.18	0.43
1:1:1686:U:OP1	23:5:42:LYS:NZ	2.38	0.43
1:1:3115:C:OP1	11:q:62:ARG:NH2	2.52	0.43
5:k:299:ASP:O	5:k:300:ARG:HB2	2.18	0.43
6:l:276:LEU:HA	6:l:277:PRO:HD3	1.89	0.43
11:q:16:VAL:HG12	11:q:29:GLY:HA3	2.01	0.43
25:6:473:A:H4'	25:6:768:C:O2	2.18	0.43
25:6:757:A:H4'	53:s4:22:LYS:HD3	2.00	0.43
25:6:823:G:H2'	25:6:824:G:O4'	2.18	0.43
25:6:901:G:N2	63:c4:54:GLU:OE1	2.50	0.43
25:6:1174:C:H2'	25:6:1175:U:O4'	2.18	0.43
25:6:1585:U:H2'	25:6:1586:A:H8	1.84	0.43
25:6:1590:G:OP1	68:c9:91:TYR:HB2	2.19	0.43
35:AG:51:TYR:HD2	35:AG:67:MET:HE3	1.82	0.43
37:AI:62:GLN:O	37:AI:66:VAL:HG23	2.19	0.43
44:AP:21:THR:HG21	44:AP:76:LYS:HG3	1.99	0.43
46:i:61:ILE:HG23	67:T:125:ILE:HG12	2.00	0.43
46:i:130:GLU:O	46:i:134:ASP:HB2	2.18	0.43
1:AR:86:G:O2'	14:CN:11:LYS:HD3	2.18	0.43
1:AR:148:G:OP2	16:CP:4:TYR:OH	2.25	0.43
1:AR:594:U:H2'	1:AR:609:G:O6	2.17	0.43
1:AR:829:U:H3	1:AR:895:A:H62	1.66	0.43
1:AR:1049:C:H2'	1:AR:1050:U:C6	2.54	0.43
1:AR:1495:U:H5	1:AR:1835:A:C2	2.37	0.43
1:AR:2595:A:H3'	1:AR:2596:U:H6	1.83	0.43
1:AR:2726:C:O2'	1:AR:2727:A:H2'	2.18	0.43
1:AR:2976:A:OP1	84:AR:3652:OHX:N3	2.52	0.43
1:AR:3267:A:H2'	8:CH:69:PHE:CE1	2.53	0.43
1:AR:3326:G:H2'	1:AR:3327:G:C8	2.53	0.43
2:AS:39:C:N3	13:CM:70:THR:HG23	2.33	0.43
14:CN:69:VAL:HG12	14:CN:149:GLN:CD	2.42	0.43
18:CR:171:ARG:HB2	18:CR:171:ARG:NH1	2.33	0.43
18:CR:172:GLN:HA	18:CR:175:ARG:HB2	2.00	0.43
23:CW:10:LYS:HD2	23:CW:10:LYS:N	2.34	0.43
29:DB:102:GLU:CD	29:DB:103:GLN:H	2.22	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
30:DC:74:ASN:HB3	30:DC:115:LYS:H	1.83	0.43
25:A:149:C:O2'	55:H:132:ARG:NH1	2.50	0.43
25:A:941:A:C5	25:A:942:G:H1'	2.53	0.43
49:B:167:LYS:HG2	49:B:168:HIS:CD2	2.54	0.43
66:S:88:VAL:HG22	66:S:89:SER:H	1.84	0.43
75:b:75:VAL:O	75:b:76:SER:C	2.60	0.43
80:g:91:ILE:HG12	80:g:92:LYS:N	2.29	0.43
81:h:177:MET:HG2	81:h:193:ILE:HG23	2.01	0.43
81:h:192:PHE:HD2	81:h:223:TRP:CE3	2.36	0.43
49:s0:28:ASN:HB2	49:s0:150:ASP:HB3	1.99	0.43
50:s1:126:THR:HG22	50:s1:136:ARG:HE	1.84	0.43
51:s2:43:ARG:HE	51:s2:249:ALA:HB2	1.83	0.43
52:s3:222:VAL:HG11	81:sR:229:LYS:HA	2.01	0.43
57:s8:104:ILE:O	57:s8:164:ARG:HA	2.19	0.43
57:s8:199:LYS:HA	57:s8:199:LYS:HD2	1.82	0.43
58:s9:102:GLU:O	58:s9:106:GLU:N	2.44	0.43
60:c1:80:MET:HE3	60:c1:80:MET:HB2	1.78	0.43
60:c1:102:LYS:O	72:d3:13:ARG:NH1	2.52	0.43
73:d4:54:ALA:HB2	73:d4:79:VAL:HG22	1.99	0.43
81:sR:134:TRP:CZ3	81:sR:140:CYS:HB2	2.53	0.43
1:1:261:U:H2'	1:1:262:U:C6	2.54	0.43
1:1:816:A:H1'	1:1:819:U:O4	2.19	0.43
1:1:1128:U:C2	1:1:2828:G:O4'	2.72	0.43
1:1:2257:C:H2'	1:1:2258:U:O4'	2.18	0.43
1:1:2357:A:H2'	1:1:2358:A:H8	1.83	0.43
1:1:2427:U:H2'	1:1:2428:U:C6	2.54	0.43
1:1:2443:A:N6	1:1:2504:U:C4	2.86	0.43
1:1:2630:C:H1'	1:1:2758:A:N3	2.34	0.43
1:1:2989:U:H2'	1:1:2990:G:O4'	2.19	0.43
1:1:3042:U:H5''	24:l2:48:ARG:HH21	1.82	0.43
3:4:14:C:C4	3:4:15:G:C6	3.06	0.43
3:4:127:U:C2'	3:4:128:U:H5'	2.48	0.43
5:k:292:ALA:HB1	5:k:295:ALA:HB3	2.00	0.43
6:l:343:LYS:HB3	6:l:343:LYS:HE2	1.78	0.43
8:n:146:ILE:HD13	8:n:146:ILE:HA	1.77	0.43
9:o:89:ILE:HD12	9:o:214:TRP:CZ3	2.54	0.43
17:w:32:LYS:C	17:w:33:ILE:HD12	2.43	0.43
18:x:39:TRP:O	18:x:114:VAL:HG12	2.19	0.43
21:0:30:PHE:CE2	21:0:103:VAL:HG21	2.53	0.43
22:2:18:ASP:HB3	22:2:21:LYS:HB2	2.00	0.43
25:6:63:G:H4'	25:6:170:U:C5	2.54	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:82:U:H2'	25:6:83:G:O4'	2.18	0.43
25:6:151:G:N2	25:6:163:G:N2	2.66	0.43
25:6:1554:U:H3'	25:6:1555:A:H8	1.83	0.43
28:9:82:VAL:HG12	28:9:84:LYS:H	1.83	0.43
28:9:126:LEU:CD1	28:9:127:GLU:H	2.30	0.43
37:AI:108:GLN:O	37:AI:112:PRO:HG3	2.18	0.43
38:AJ:33:ALA:HB1	38:AJ:38:LYS:HZ2	1.82	0.43
1:AR:61:A:H2'	1:AR:62:A:O4'	2.19	0.43
1:AR:289:A:H5'	16:CP:95:GLN:O	2.17	0.43
1:AR:541:U:O4	84:AR:3516:OHX:N4	2.52	0.43
1:AR:686:G:C2	1:AR:695:C:C2	3.06	0.43
1:AR:1070:U:C4	1:AR:1071:U:C4	3.06	0.43
1:AR:1157:G:H2'	1:AR:1158:A:O4'	2.19	0.43
1:AR:1229:G:O2'	47:p0:32:ASN:HA	2.19	0.43
1:AR:1566:A:N6	1:AR:1567:U:O2	2.52	0.43
1:AR:2522:G:H2'	1:AR:2522:G:N3	2.33	0.43
1:AR:2608:G:H2'	1:AR:2609:A:C8	2.53	0.43
1:AR:2988:C:H2'	1:AR:2989:U:C6	2.54	0.43
1:AR:3276:G:C6	18:CR:172:GLN:HB2	2.53	0.43
2:AS:94:C:H2'	2:AS:95:A:C8	2.54	0.43
5:CE:155:ALA:O	5:CE:188:ILE:HG21	2.18	0.43
5:CE:173:GLN:O	5:CE:174:LYS:HB2	2.18	0.43
6:CF:181:VAL:O	6:CF:182:LEU:HB2	2.18	0.43
6:CF:204:GLY:O	6:CF:246:ARG:NH1	2.52	0.43
8:CH:154:LEU:HA	8:CH:154:LEU:HD23	1.79	0.43
12:CL:182:LEU:HD23	12:CL:182:LEU:HA	1.75	0.43
13:CM:54:VAL:HG12	13:CM:56:THR:HG23	1.99	0.43
13:CM:96:PHE:HB3	13:CM:156:LYS:HG3	1.99	0.43
16:CP:35:VAL:O	16:CP:64:VAL:HA	2.18	0.43
20:CT:60:LYS:HE2	20:CT:60:LYS:HB2	1.78	0.43
23:CW:54:VAL:HG12	23:CW:67:SER:HB2	2.00	0.43
36:DI:19:LYS:HZ2	36:DI:38:LEU:HD23	1.83	0.43
37:DJ:17:LEU:HA	37:DJ:20:GLN:HB2	2.00	0.43
41:DN:4:GLN:HE21	41:DN:4:GLN:HB2	1.60	0.43
47:p0:51:VAL:HB	47:p0:87:VAL:HG22	2.00	0.43
25:A:175:G:H22	25:A:266:A:P	2.41	0.43
25:A:470:A:OP2	84:A:1954:OHX:N6	2.52	0.43
25:A:1175:U:H3	25:A:1464:G:H1	1.65	0.43
25:A:1695:G:N2	25:A:1706:C:H41	2.16	0.43
49:B:142:PRO:HG3	70:W:32:VAL:HG13	2.00	0.43
50:C:48:VAL:HG11	50:C:61:LEU:HD21	2.01	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
50:C:178:GLY:O	50:C:183:GLN:HB3	2.18	0.43
56:I:111:LYS:HD2	56:I:111:LYS:HA	1.76	0.43
50:s1:171:ILE:O	50:s1:175:GLU:HB2	2.17	0.43
50:s1:223:PHE:HB3	50:s1:224:ASP:H	1.61	0.43
56:s7:51:VAL:HG22	56:s7:55:LYS:O	2.18	0.43
70:d1:60:ARG:HA	70:d1:65:SER:HB2	2.00	0.43
77:d8:27:GLN:OE1	77:d8:64:ARG:HD2	2.19	0.43
81:sR:309:VAL:HB	81:sR:311:ARG:HH12	1.82	0.43
1:1:92:G:H5'	1:1:93:C:H5''	2.01	0.43
1:1:242:C:HO2'	1:1:243:G:H8	1.66	0.43
1:1:424:G:H8	1:1:424:G:O5'	2.02	0.43
1:1:847:A:OP1	62:O:140:LYS:HD3	2.18	0.43
1:1:943:U:H3'	30:AB:13:GLY:HA2	2.01	0.43
1:1:964:G:C2	1:1:965:A:C4	3.06	0.43
1:1:2550:U:C6	10:p:37:GLY:HA3	2.53	0.43
1:1:2603:G:N7	84:1:3402:OHX:N6	2.67	0.43
1:1:2621:G:C6	1:1:2622:C:C4	3.07	0.43
1:1:2700:G:OP1	22:2:17:ARG:HB2	2.18	0.43
2:3:79:A:OP2	84:3:203:OHX:N6	2.52	0.43
6:l:16:THR:HG22	6:l:18:ASN:N	2.27	0.43
9:o:163:LEU:O	9:o:165:ASP:N	2.49	0.43
10:p:36:ILE:C	10:p:38:GLN:H	2.26	0.43
11:q:45:PHE:HB3	15:u:7:VAL:HG11	1.99	0.43
13:s:80:LEU:HD22	13:s:84:LEU:HG	2.01	0.43
13:s:109:HIS:CE1	13:s:122:ILE:HA	2.53	0.43
18:x:59:PRO:HG3	18:x:76:PHE:CD1	2.54	0.43
19:y:180:ARG:HD2	19:y:185:LYS:HB2	2.00	0.43
24:l2:120:LYS:HB3	24:l2:137:VAL:HG21	2.00	0.43
25:6:140:A:H5''	25:6:140:A:N3	2.32	0.43
25:6:1091:A:H4'	25:6:1092:A:O5'	2.19	0.43
25:6:1772:C:OP1	43:DP:2:ARG:HD3	2.18	0.43
29:AA:9:LYS:HD2	29:AA:83:THR:O	2.19	0.43
30:AB:96:LYS:C	30:AB:98:THR:H	2.26	0.43
37:AI:71:LYS:HZ1	28:DA:126:LEU:HG	1.84	0.43
38:AJ:34:SER:OG	38:AJ:37:THR:OG1	2.35	0.43
1:AR:230:U:H2'	1:AR:231:G:O4'	2.19	0.43
1:AR:888:A:H2'	1:AR:889:U:O4'	2.19	0.43
1:AR:1145:G:H5'	34:DG:46:PHE:CE1	2.53	0.43
1:AR:1752:A:OP2	84:AR:3582:OHX:N3	2.52	0.43
1:AR:2259:A:OP2	84:AR:3449:OHX:N1	2.51	0.43
1:AR:2393:G:P	5:CE:248:LYS:HE3	2.59	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2406:C:H2'	1:AR:2407:C:C6	2.53	0.43
1:AR:2656:A:HO2'	1:AR:2657:A:H3'	1.84	0.43
1:AR:2952:G:H2'	1:AR:2953:U:H6	1.81	0.43
1:AR:3052:G:H2'	1:AR:3053:G:H8	1.84	0.43
1:AR:3242:G:C2	1:AR:3245:A:C8	3.07	0.43
1:AR:3374:U:H2'	1:AR:3378:C:N4	2.33	0.43
2:AS:79:A:H2'	2:AS:80:G:O4'	2.18	0.43
4:CD:144:ASN:HD22	4:CD:160:SER:HB2	1.82	0.43
4:CD:227:ARG:O	4:CD:227:ARG:HD3	2.18	0.43
7:CG:293:LEU:O	84:CG:302:OHX:N6	2.52	0.43
9:CI:92:ILE:HD12	9:CI:92:ILE:HA	1.62	0.43
11:CK:20:ILE:HB	15:CO:7:VAL:HG13	2.00	0.43
13:CM:173:ASP:HB3	13:CM:174:LYS:H	1.55	0.43
20:CT:153:LYS:O	20:CT:157:GLU:N	2.52	0.43
36:DI:13:TYR:O	36:DI:18:ASN:ND2	2.46	0.43
44:DQ:35:LEU:HB3	44:DQ:40:LYS:HG2	2.00	0.43
25:A:734:A:H5''	25:A:735:C:OP1	2.18	0.43
25:A:1262:U:H2'	25:A:1263:G:C8	2.53	0.43
25:A:1278:G:H2'	25:A:1279:C:O4'	2.19	0.43
25:A:1404:C:H2'	25:A:1405:G:H8	1.83	0.43
25:A:1433:G:H2'	25:A:1434:U:C6	2.53	0.43
53:F:24:SER:O	53:F:24:SER:OG	2.36	0.43
53:F:60:GLU:O	53:F:64:ILE:HG13	2.19	0.43
58:K:13:SER:OG	58:K:14:THR:N	2.52	0.43
51:s2:157:LYS:NZ	71:d2:92:ASN:O	2.52	0.43
52:s3:27:ARG:HD2	59:c0:60:SER:HB2	2.00	0.43
54:s5:43:PHE:HB3	54:s5:46:TRP:HD1	1.84	0.43
54:s5:62:VAL:HG13	54:s5:89:ILE:HG12	2.00	0.43
60:c1:99:ARG:HD3	72:d3:8:GLY:O	2.19	0.43
64:c5:85:ILE:HD12	64:c5:111:MET:HB3	2.01	0.43
82:c7:20:TYR:CD2	82:c7:38:ILE:HD12	2.53	0.43
67:c8:109:LEU:O	67:c8:113:LEU:HG	2.19	0.43
72:d3:69:ARG:NH1	72:d3:116:ASP:OD2	2.52	0.43
73:d4:25:VAL:HB	73:d4:60:PHE:HE2	1.84	0.43
1:1:716:A:N6	30:AB:117:ARG:HG3	2.34	0.43
1:1:1071:U:O2'	1:1:1072:G:OP2	2.34	0.43
1:1:1478:C:H2'	1:1:1479:U:H6	1.83	0.43
1:1:1821:U:C2	36:AH:67:LYS:HB2	2.54	0.43
1:1:1877:U:OP2	84:1:3465:OHX:N2	2.52	0.43
1:1:2144:A:H1'	1:1:2281:A:N6	2.34	0.43
1:1:2767:U:H2'	1:1:2768:U:C6	2.53	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:4:122:U:H2'	3:4:123:G:H8	1.84	0.43
6:l:302:ALA:HB2	19:y:39:ARG:HH22	1.83	0.43
7:m:58:LYS:HA	7:m:93:THR:HB	1.99	0.43
12:r:16:PRO:O	12:r:18:PRO:HD3	2.18	0.43
12:r:211:ARG:O	12:r:214:PRO:HG3	2.19	0.43
14:t:25:HIS:CD2	14:t:25:HIS:N	2.87	0.43
14:t:75:PHE:HA	14:t:101:ARG:HH12	1.82	0.43
16:v:146:ALA:HA	16:v:149:ASN:ND2	2.34	0.43
25:6:333:A:C6	25:6:334:G:C6	3.07	0.43
25:6:525:A:H5''	73:d4:89:TYR:CE2	2.54	0.43
25:6:624:G:H2'	25:6:625:C:H6	1.83	0.43
25:6:794:U:H4'	25:6:795:U:OP2	2.18	0.43
25:6:1034:C:O2'	71:d2:2:THR:N	2.43	0.43
36:AH:20:ILE:HA	36:AH:20:ILE:HD13	1.74	0.43
1:AR:322:U:H5''	1:AR:323:A:OP1	2.19	0.43
1:AR:528:U:H2'	1:AR:529:A:H8	1.84	0.43
1:AR:994:G:O6	84:AR:3657:OHX:N1	2.51	0.43
1:AR:1190:A:C5	1:AR:1193:A:H1'	2.53	0.43
1:AR:1213:G:OP1	21:CU:139:TYR:OH	2.14	0.43
1:AR:1935:G:N7	84:AR:3416:OHX:N1	2.66	0.43
1:AR:2298:U:O4	1:AR:2923:U:H5	2.01	0.43
1:AR:2822:U:C4	1:AR:2823:G:C5	3.07	0.43
1:AR:2986:U:H2'	1:AR:2987:A:C8	2.54	0.43
5:CE:105:VAL:HG21	5:CE:148:LEU:HD13	2.01	0.43
8:CH:52:VAL:CG1	8:CH:65:ILE:HG13	2.49	0.43
13:CM:54:VAL:O	13:CM:55:ARG:HB3	2.19	0.43
14:CN:35:ARG:O	14:CN:39:ARG:HG3	2.18	0.43
19:CS:67:ILE:HG23	19:CS:81:VAL:HG11	1.99	0.43
24:CX:127:PRO:O	24:CX:130:ALA:HB3	2.18	0.43
36:DI:19:LYS:NZ	36:DI:38:LEU:HD23	2.34	0.43
25:A:28:A:H2'	25:A:29:U:C6	2.54	0.43
25:A:545:A:H4'	25:A:546:U:OP1	2.18	0.43
25:A:1332:C:O2'	52:E:162:GLN:HB3	2.19	0.43
25:A:1340:U:N3	25:A:1378:U:H4'	2.34	0.43
49:B:195:TRP:NE1	49:B:197:ILE:HD13	2.34	0.43
55:H:63:MET:HE1	55:H:106:LEU:HD13	2.01	0.43
56:I:30:SER:HB2	56:I:34:LEU:HB2	2.00	0.43
57:J:70:GLU:HG3	57:J:112:TRP:CH2	2.54	0.43
59:L:46:LEU:O	59:L:50:THR:HG23	2.19	0.43
64:Q:63:ALA:HB1	64:Q:74:ALA:HB3	2.01	0.43
70:W:38:LYS:O	70:W:46:ILE:N	2.49	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
71:X:81:VAL:HG13	71:X:85:ASP:HB2	2.01	0.43
71:X:104:LEU:HD23	71:X:111:MET:O	2.18	0.43
72:Y:96:VAL:HG12	72:Y:127:VAL:HG11	2.01	0.43
73:Z:41:ARG:O	73:Z:45:ALA:HB2	2.19	0.43
77:d:64:ARG:HD2	77:d:64:ARG:HA	1.77	0.43
81:h:83:ALA:HB1	81:h:110:VAL:HG12	2.00	0.43
81:h:232:TYR:CE2	81:h:234:LEU:HD11	2.53	0.43
81:h:255:ALA:HB1	81:h:289:ALA:O	2.19	0.43
51:s2:53:ILE:HG13	51:s2:72:LEU:HG	2.01	0.43
57:s8:82:VAL:CG1	57:s8:101:ILE:HG22	2.48	0.43
74:d5:70:LYS:HA	74:d5:70:LYS:HD3	1.70	0.43
1:1:916:G:C6	4:j:207:VAL:HG21	2.54	0.43
1:1:1190:A:H8	1:1:1297:C:O3'	2.01	0.43
1:1:1721:U:O4	20:z:128:LYS:NZ	2.37	0.43
1:1:2442:G:N1	1:1:2443:A:N7	2.67	0.43
1:1:2623:G:H2'	1:1:2624:G:C8	2.54	0.43
1:1:2694:A:C6	1:1:2695:A:C6	3.07	0.43
2:3:113:C:H2'	2:3:114:U:O4'	2.18	0.43
5:k:21:ARG:HG2	5:k:269:GLN:HG2	2.00	0.43
5:k:116:ARG:HG2	5:k:175:LYS:HB2	2.01	0.43
5:k:140:ASP:HB2	5:k:141:GLY:H	1.72	0.43
5:k:171:LEU:O	84:k:402:OHX:N6	2.51	0.43
5:k:339:ARG:HG2	5:k:340:LYS:O	2.19	0.43
6:l:333:VAL:O	6:l:337:GLU:N	2.47	0.43
7:m:18:THR:HA	7:m:19:PRO:HD3	1.91	0.43
8:n:55:LEU:HD23	8:n:55:LEU:HA	1.84	0.43
9:o:137:GLY:HA3	9:o:236:ILE:HB	1.99	0.43
9:o:229:PHE:CD1	9:o:229:PHE:C	2.97	0.43
12:r:121:LYS:HB3	12:r:121:LYS:HE2	1.75	0.43
18:x:112:LEU:HD12	18:x:112:LEU:HA	1.81	0.43
21:0:30:PHE:CZ	21:0:103:VAL:HG21	2.54	0.43
24:l:86:ARG:HD2	24:l:92:PHE:CZ	2.53	0.43
25:6:1699:G:HO2'	25:6:1702:A:N6	2.16	0.43
30:AB:111:LYS:HA	30:AB:129:PHE:O	2.18	0.43
44:AP:85:LEU:HD12	44:AP:85:LEU:HA	1.85	0.43
1:AR:40:A:N7	30:DC:29:PRO:O	2.51	0.43
1:AR:383:G:N2	1:AR:385:A:H3'	2.33	0.43
1:AR:718:G:O6	1:AR:751:A:H1'	2.18	0.43
1:AR:896:A:H5'	4:CD:183:GLY:HA2	2.01	0.43
1:AR:1295:G:OP1	21:CU:84:ARG:HG3	2.18	0.43
1:AR:1656:A:OP2	36:DI:37:LYS:HE3	2.19	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:2352:A:H2'	1:AR:2353:G:C8	2.53	0.43
1:AR:2794:G:O2'	1:AR:2795:U:OP2	2.24	0.43
1:AR:2964:G:N7	84:AR:3483:OHX:N2	2.67	0.43
1:AR:3273:A:O2'	1:AR:3274:A:H5'	2.18	0.43
1:AR:3306:U:H2'	1:AR:3307:A:H5''	2.00	0.43
5:CE:11:HIS:CE1	5:CE:235:THR:HA	2.54	0.43
6:CF:361:HIS:CG	6:CF:362:ASP:N	2.87	0.43
11:CK:93:VAL:O	11:CK:177:ASP:HA	2.19	0.43
12:CL:38:LYS:HG2	12:CL:41:ALA:HB2	2.01	0.43
14:CN:46:ILE:CG2	14:CN:49:ARG:HB2	2.48	0.43
15:CO:16:GLU:HB3	21:CU:149:LYS:HB3	2.01	0.43
17:CQ:128:ARG:HH11	17:CQ:128:ARG:CB	2.32	0.43
20:CT:92:GLN:O	20:CT:96:ILE:HG13	2.19	0.43
24:CX:80:ARG:NH1	24:CX:116:GLY:HA3	2.34	0.43
36:DI:84:CYS:O	36:DI:88:ARG:HG2	2.19	0.43
37:DJ:100:VAL:HG12	37:DJ:101:THR:O	2.19	0.43
25:A:525:A:C5	25:A:526:A:C5	3.07	0.43
25:A:870:C:O2	25:A:957:G:N2	2.47	0.43
25:A:1237:G:H2'	25:A:1238:A:H8	1.84	0.43
25:A:1533:C:H4'	25:A:1539:G:H1	1.80	0.43
50:C:181:LEU:HD13	50:C:181:LEU:H	1.84	0.43
52:E:58:VAL:O	52:E:65:ARG:HB3	2.18	0.43
54:G:146:THR:HG23	54:G:221:ALA:HA	2.00	0.43
57:J:107:THR:OG1	57:J:108:PRO:HD3	2.18	0.43
58:K:61:THR:HG22	71:X:97:ARG:HH12	1.83	0.43
60:M:125:VAL:HG12	60:M:139:VAL:HA	2.00	0.43
64:Q:44:ARG:HD2	64:Q:44:ARG:O	2.19	0.43
71:X:8:ALA:HA	71:X:74:VAL:HG11	2.01	0.43
74:a:42:LEU:H	74:a:42:LEU:HG	1.54	0.43
74:a:46:LYS:HA	74:a:49:ARG:HB2	2.01	0.43
75:b:23:CYS:O	75:b:27:SER:HA	2.19	0.43
76:c:63:LEU:HD23	76:c:63:LEU:HA	1.85	0.43
49:s0:189:VAL:HG22	49:s0:190:ASP:H	1.83	0.43
50:s1:67:GLU:OE1	50:s1:83:LYS:NZ	2.38	0.43
53:s4:105:VAL:HG22	53:s4:243:GLY:HA2	2.01	0.43
57:s8:151:LYS:HE3	57:s8:151:LYS:HA	2.00	0.43
57:s8:153:GLU:H	57:s8:153:GLU:HG3	1.67	0.43
58:s9:97:LEU:HD23	58:s9:97:LEU:HA	1.82	0.43
60:c1:124:THR:HB	60:c1:141:LYS:HB3	2.01	0.43
62:c3:54:LEU:HB3	62:c3:60:VAL:HG13	2.00	0.43
62:c3:132:VAL:HG23	62:c3:134:VAL:HG13	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
65:c6:82:ARG:NH1	65:c6:114:ARG:O	2.52	0.43
72:d3:125:VAL:HG12	72:d3:126:LYS:HG3	2.01	0.43
73:d4:45:ALA:CB	73:d4:50:ALA:HB3	2.49	0.43
74:d5:46:LYS:HD3	74:d5:70:LYS:HB2	2.00	0.43
81:sR:207:ASP:OD2	81:sR:209:THR:OG1	2.31	0.43
81:sR:314:GLN:HG3	81:sR:315:VAL:H	1.84	0.43
1:1:371:G:H4'	1:1:396:A:N1	2.34	0.43
1:1:734:C:H2'	1:1:735:A:O4'	2.19	0.43
1:1:969:C:H5''	31:AC:19:ASN:HD22	1.84	0.43
1:1:1055:A:N3	2:3:81:U:O2'	2.48	0.43
1:1:1427:U:H2'	1:1:1428:A:C8	2.54	0.43
1:1:1562:C:H2'	1:1:1563:C:C6	2.54	0.43
1:1:2256:A:N7	25:A:1757:G:H4'	2.34	0.43
1:1:2347:U:H2'	1:1:2348:A:O4'	2.19	0.43
1:1:3024:A:H4'	11:q:97:PHE:CE1	2.53	0.43
4:j:113:VAL:HG12	4:j:166:ILE:HA	2.01	0.43
4:j:133:TYR:CB	4:j:168:VAL:HG12	2.47	0.43
8:n:56:LYS:HD2	8:n:98:VAL:HG13	2.00	0.43
11:q:48:VAL:HG11	11:q:52:LEU:HD12	2.01	0.43
11:q:61:GLY:O	11:q:65:VAL:HG23	2.19	0.43
12:r:12:GLN:HA	12:r:59:GLN:NE2	2.33	0.43
12:r:210:ILE:HG23	12:r:217:PHE:CD2	2.54	0.43
17:w:62:THR:H	17:w:69:GLY:HA3	1.83	0.43
17:w:64:PHE:CE2	17:w:68:ARG:HD3	2.54	0.43
19:y:34:THR:HG22	19:y:49:LEU:HD11	2.01	0.43
22:2:17:ARG:HA	22:2:17:ARG:HD2	1.80	0.43
25:6:959:U:OP2	76:d7:20:LYS:NZ	2.50	0.43
25:6:1568:C:OP1	67:c8:36:LYS:NZ	2.52	0.43
33:AE:31:ARG:HB3	33:AE:31:ARG:HH11	1.84	0.43
1:AR:151:A:P	16:CP:147:ARG:HH12	2.42	0.43
1:AR:244:G:C5	1:AR:245:U:C4	3.07	0.43
1:AR:256:G:H4'	37:DJ:111:PHE:HZ	1.82	0.43
1:AR:962:A:O2'	1:AR:963:G:H5'	2.19	0.43
1:AR:1008:U:H4'	12:CL:34:TYR:HD2	1.84	0.43
1:AR:1334:U:H5''	9:CI:206:LYS:HB3	2.00	0.43
1:AR:2279:A:H2'	1:AR:2288:G:O6	2.19	0.43
1:AR:2396:G:OP1	1:AR:2397:A:H4'	2.19	0.43
1:AR:3189:G:H2'	1:AR:3190:C:H6	1.83	0.43
1:AR:3219:G:H4'	1:AR:3220:G:H5'	2.01	0.43
1:AR:3290:G:N7	84:AR:3603:OHX:N5	2.66	0.43
4:CD:206:PRO:HG3	4:CD:213:GLY:HA3	2.00	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:CG:259:LYS:O	7:CG:260:PHE:HD1	2.02	0.43
7:CG:279:LYS:HE3	7:CG:282:ARG:NH1	2.33	0.43
10:CJ:169:LEU:HA	10:CJ:169:LEU:HD23	1.79	0.43
12:CL:3:ARG:CZ	12:CL:63:GLU:HG3	2.48	0.43
18:CR:30:ARG:HA	18:CR:119:VAL:HG11	2.00	0.43
19:CS:36:LEU:HD23	19:CS:36:LEU:HA	1.80	0.43
21:CU:17:GLU:O	21:CU:20:PRO:HD3	2.18	0.43
21:CU:24:LEU:HG	22:CV:146:ASN:ND2	2.34	0.43
21:CU:26:ARG:O	22:CV:150:THR:HA	2.18	0.43
21:CU:42:TRP:NE1	21:CU:53:LYS:HG3	2.33	0.43
29:DB:76:ASN:OD1	29:DB:77:TYR:N	2.52	0.43
47:p0:79:PHE:CD1	47:p0:189:GLN:HG3	2.54	0.43
25:A:275:C:H2'	25:A:276:C:C5	2.54	0.43
25:A:344:A:C6	25:A:345:U:C4	3.06	0.43
25:A:393:C:OP2	57:J:2:GLY:N	2.51	0.43
25:A:1196:A:H4'	25:A:1197:C:O5'	2.18	0.43
25:A:1672:G:H2'	25:A:1673:G:C8	2.53	0.43
51:D:225:LEU:HG	70:W:23:ILE:HG13	2.01	0.43
56:I:43:PHE:CE2	56:I:46:ILE:HG12	2.53	0.43
56:I:51:VAL:HG22	56:I:55:LYS:O	2.18	0.43
58:K:55:ALA:O	58:K:59:LEU:HG	2.19	0.43
67:T:30:TYR:O	67:T:33:THR:OG1	2.30	0.43
67:T:91:ASP:CG	67:T:92:ILE:H	2.26	0.43
67:T:136:GLN:H	67:T:136:GLN:HG2	1.39	0.43
80:g:98:VAL:HG22	80:g:99:LYS:H	1.84	0.43
80:g:98:VAL:HG13	80:g:99:LYS:N	2.34	0.43
81:h:40:LYS:HG2	81:h:66:HIS:O	2.19	0.43
50:s1:207:LEU:HA	50:s1:207:LEU:HD23	1.73	0.43
51:s2:152:HIS:H	51:s2:152:HIS:HD2	1.62	0.43
54:s5:126:ASP:HB3	54:s5:127:GLN:H	1.58	0.43
63:c4:61:MET:HE2	63:c4:61:MET:HB3	1.75	0.43
67:c8:140:THR:O	67:c8:143:ARG:NH1	2.52	0.43
71:d2:55:ASP:C	71:d2:57:ARG:H	2.27	0.43
73:d4:23:PHE:CE1	73:d4:75:VAL:HG23	2.54	0.43
73:d4:122:GLY:HA2	73:d4:125:LEU:HB3	2.01	0.43
83:e1:108:VAL:HG12	83:e1:114:VAL:HG22	2.01	0.43
81:sR:6:VAL:O	81:sR:316:MET:N	2.44	0.43
1:1:118:U:C5	1:1:119:U:C4	3.06	0.42
1:1:391:A:C5	1:1:392:G:C8	3.07	0.42
1:1:674:G:P	19:y:105:ARG:HH12	2.40	0.42
1:1:968:G:H2'	1:1:969:C:C6	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1355:A:H4'	1:1:1356:U:O5'	2.19	0.42
1:1:1909:A:H2'	1:1:1910:A:C8	2.54	0.42
1:1:1941:C:OP2	20:z:74:ARG:HG2	2.19	0.42
1:1:2203:U:O2	1:1:2240:G:C2	2.71	0.42
1:1:2292:U:C4	1:1:2293:C:N4	2.87	0.42
1:1:2357:A:O2'	1:1:2358:A:H5'	2.19	0.42
1:1:2550:U:C5	4:j:40:TYR:CZ	3.07	0.42
1:1:2700:G:O2'	22:2:47:SER:HA	2.19	0.42
1:1:3139:A:N6	1:1:3140:G:C2	2.87	0.42
3:4:93:U:H2'	3:4:94:C:C6	2.54	0.42
7:m:8:LYS:HG2	7:m:12:TYR:CD2	2.54	0.42
14:t:28:GLN:HB3	16:v:201:ARG:HD3	2.00	0.42
14:t:64:LYS:HG2	30:AB:69:TRP:CG	2.53	0.42
17:w:124:LEU:HD13	17:w:124:LEU:HA	1.89	0.42
19:y:133:LYS:N	19:y:135:GLN:OE1	2.51	0.42
21:0:82:ASP:OD1	21:0:87:THR:HB	2.18	0.42
22:2:124:VAL:HB	22:2:125:ALA:H	1.65	0.42
25:6:328:A:H2'	25:6:329:G:C8	2.54	0.42
25:6:454:U:C2	53:s4:66:MET:HG3	2.54	0.42
25:6:894:U:H2'	25:6:895:G:C8	2.54	0.42
25:6:1150:G:O6	84:6:1970:OHX:N5	2.51	0.42
25:6:1553:G:N2	25:6:1555:A:H3'	2.34	0.42
27:8:58:ASP:OD2	37:AI:25:LYS:NZ	2.51	0.42
1:AR:594:U:O2'	1:AR:595:G:H5'	2.19	0.42
1:AR:914:A:C2	4:CD:204:MET:HB3	2.54	0.42
1:AR:939:U:H2'	1:AR:940:G:C8	2.52	0.42
1:AR:1103:A:N6	1:AR:1363:A:H1'	2.33	0.42
1:AR:1591:G:H1'	1:AR:1799:A:N1	2.33	0.42
1:AR:1867:A:H2'	1:AR:1868:G:H8	1.82	0.42
1:AR:2254:U:O4	84:AR:3623:OHX:N6	2.52	0.42
1:AR:2656:A:O2'	84:AR:3409:OHX:N1	2.52	0.42
1:AR:2768:U:H2'	1:AR:2769:A:C8	2.54	0.42
1:AR:2984:C:H2'	1:AR:2985:C:C6	2.54	0.42
1:AR:3164:C:H1'	1:AR:3165:A:H5'	2.01	0.42
1:AR:3181:C:H2'	1:AR:3182:G:O4'	2.19	0.42
1:AR:3393:U:H2'	1:AR:3394:U:C6	2.50	0.42
3:AT:135:G:OP2	27:CZ:56:ARG:NH2	2.48	0.42
9:CI:174:GLY:HA2	9:CI:177:GLY:O	2.19	0.42
12:CL:4:ARG:HB2	12:CL:123:HIS:NE2	2.34	0.42
12:CL:46:PHE:CD2	12:CL:139:ARG:HG3	2.54	0.42
12:CL:129:VAL:HA	12:CL:133:GLN:OE1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:CN:61:PRO:O	14:CN:62:THR:OG1	2.35	0.42
14:CN:98:ASP:OD1	14:CN:100:ARG:HG2	2.18	0.42
15:CO:99:TRP:O	15:CO:103:ILE:HG13	2.19	0.42
40:DM:41:THR:HG21	40:DM:62:ALA:CB	2.49	0.42
45:DR:35:ALA:HB3	45:DR:37:TYR:CE1	2.53	0.42
25:A:150:U:P	73:Z:123:LYS:HZ3	2.41	0.42
25:A:1002:G:C6	25:A:1003:A:N7	2.87	0.42
25:A:1046:G:O2'	25:A:1047:G:H5'	2.19	0.42
25:A:1232:U:H4'	59:L:2:LEU:HD21	2.01	0.42
52:E:134:CYS:N	52:E:157:LEU:HD11	2.34	0.42
52:E:142:LEU:C	52:E:144:ALA:H	2.27	0.42
61:N:63:VAL:HG11	61:N:94:ALA:HB2	2.01	0.42
66:S:20:TYR:N	66:S:20:TYR:CD1	2.87	0.42
72:Y:33:LEU:HD23	72:Y:33:LEU:HA	1.87	0.42
51:s2:188:LEU:HD13	51:s2:196:VAL:HG11	2.00	0.42
65:c6:38:LEU:HD11	68:c9:9:VAL:C	2.44	0.42
68:c9:123:ARG:HG2	68:c9:124:ILE:N	2.34	0.42
1:1:212:G:H2'	6:l:221:ASN:ND2	2.34	0.42
1:1:279:U:O2'	1:1:280:U:H5'	2.19	0.42
1:1:282:G:C8	1:1:282:G:H3'	2.54	0.42
1:1:346:C:C4	1:1:348:A:C8	3.07	0.42
1:1:516:A:O3'	9:o:60:ARG:NH2	2.53	0.42
1:1:1566:A:N6	1:1:1567:U:O2	2.52	0.42
1:1:2186:U:OP2	4:j:200:ARG:HD2	2.19	0.42
1:1:2363:A:C6	1:1:2364:G:C6	3.06	0.42
1:1:2997:G:H1'	1:1:3396:U:H5'	2.01	0.42
3:4:85:G:H4'	3:4:86:U:OP1	2.19	0.42
6:l:337:GLU:HB3	6:l:339:LEU:HD21	2.01	0.42
18:x:169:THR:HG23	35:AG:60:ARG:HH11	1.84	0.42
19:y:122:ILE:HD11	19:y:130:ARG:NH2	2.34	0.42
19:y:166:LEU:HD23	19:y:166:LEU:HA	1.75	0.42
20:z:139:VAL:O	20:z:143:ILE:HG13	2.18	0.42
25:6:560:U:H2'	25:6:561:G:C8	2.54	0.42
25:6:593:U:OP2	58:s9:39:LYS:HB2	2.19	0.42
25:6:1013:A:H2'	25:6:1014:G:O4'	2.19	0.42
25:6:1174:C:H42	25:6:1465:C:N4	2.17	0.42
25:6:1575:G:C2	25:6:1576:A:C4	3.07	0.42
29:AA:24:VAL:HG11	29:AA:87:LEU:HB3	2.01	0.42
44:AP:73:GLU:OE2	44:AP:80:ARG:NH2	2.52	0.42
1:AR:589:A:H1'	1:AR:1337:A:H5''	2.00	0.42
1:AR:668:G:OP1	84:AR:3640:OHX:N1	2.53	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:864:G:O6	1:AR:893:C:H3'	2.19	0.42
1:AR:880:G:C8	1:AR:882:A:C8	3.07	0.42
1:AR:916:G:H5'	1:AR:917:A:OP1	2.19	0.42
1:AR:1331:U:H4'	1:AR:1332:A:OP2	2.19	0.42
1:AR:1481:A:H2'	1:AR:1858:A:H1'	2.01	0.42
1:AR:1821:U:C2	36:DI:67:LYS:HB2	2.55	0.42
1:AR:1932:A:H5'	1:AR:1933:A:OP2	2.19	0.42
1:AR:2667:A:OP1	48:sM:31:SER:OG	2.37	0.42
1:AR:2914:G:H5'	5:CE:9:PRO:HG3	2.02	0.42
1:AR:2931:C:H2'	1:AR:2932:U:O4'	2.19	0.42
1:AR:2950:G:C5	1:AR:2979:U:C4	3.07	0.42
1:AR:3178:A:C2	17:CQ:115:LYS:HG2	2.54	0.42
1:AR:3319:U:O2'	1:AR:3320:A:OP1	2.33	0.42
3:AT:59:A:O2'	27:CZ:61:LYS:NZ	2.33	0.42
6:CF:107:ARG:HD2	6:CF:109:TRP:CH2	2.54	0.42
8:CH:30:LEU:HD21	8:CH:57:HIS:CD2	2.54	0.42
11:CK:180:TYR:HB2	42:DO:85:LEU:HD22	2.01	0.42
15:CO:72:LEU:HD23	15:CO:84:LYS:HG3	2.01	0.42
25:A:178:U:O4	55:H:191:ARG:HG2	2.18	0.42
25:A:919:A:H2'	25:A:920:U:C6	2.54	0.42
25:A:938:G:N7	84:A:1965:OHX:N6	2.67	0.42
84:A:1909:OHX:N6	84:A:2024:OHX:N5	2.67	0.42
50:C:62:LYS:O	50:C:88:VAL:HB	2.19	0.42
53:F:7:LYS:HD2	53:F:7:LYS:HA	1.77	0.42
54:G:58:LEU:HD13	54:G:138:THR:HG22	2.00	0.42
56:I:173:TYR:CE2	56:I:179:LYS:HB2	2.53	0.42
65:R:40:GLU:HA	65:R:41:PRO:C	2.44	0.42
69:V:105:GLN:HG3	69:V:106:ILE:N	2.34	0.42
81:h:23:LEU:HD12	81:h:292:LEU:HA	2.01	0.42
54:s5:43:PHE:O	54:s5:44:ASN:C	2.63	0.42
61:c2:89:ILE:HG23	61:c2:90:LYS:O	2.19	0.42
62:c3:30:SER:OG	62:c3:31:GLU:N	2.50	0.42
65:c6:97:VAL:HG12	65:c6:98:ASP:CG	2.45	0.42
71:d2:94:LEU:HA	71:d2:95:PRO:HD3	1.91	0.42
73:d4:34:ASN:HD21	73:d4:62:THR:HG21	1.84	0.42
1:1:279:U:H2'	1:1:280:U:C6	2.55	0.42
1:1:286:U:H2'	1:1:287:G:C8	2.53	0.42
1:1:373:A:H62	1:1:396:A:N6	2.17	0.42
1:1:551:A:O2'	1:1:552:G:O5'	2.34	0.42
1:1:1389:G:H5''	34:AF:101:SER:HB3	2.01	0.42
1:1:1560:G:O6	27:8:36:LYS:NZ	2.51	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1650:G:N1	1:1:1805:C:N3	2.59	0.42
1:1:1719:G:H4'	1:1:1732:U:H4'	2.00	0.42
1:1:2240:G:N2	4:j:241:ARG:O	2.45	0.42
1:1:2703:A:N3	13:s:142:LYS:HE2	2.34	0.42
1:1:2704:A:OP2	84:1:3405:OHX:N1	2.52	0.42
1:1:2777:G:C4	30:AB:60:TYR:CZ	3.07	0.42
1:1:3003:G:P	5:k:26:ARG:HH22	2.43	0.42
1:1:3121:U:C1'	1:1:3122:A:H5''	2.48	0.42
1:1:3155:U:H3'	1:1:3156:U:H4'	2.02	0.42
1:1:3370:A:O5'	5:k:384:LYS:HB2	2.19	0.42
2:3:4:U:H2'	2:3:5:G:H8	1.81	0.42
6:l:26:PHE:HA	6:l:127:ALA:HA	2.02	0.42
6:l:40:THR:O	6:l:44:LYS:NZ	2.51	0.42
6:l:330:TYR:O	6:l:333:VAL:HG13	2.18	0.42
7:m:182:GLY:O	7:m:190:ILE:HD12	2.19	0.42
10:p:157:VAL:HG21	10:p:163:VAL:HG11	2.02	0.42
11:q:86:TYR:CE2	11:q:151:VAL:HG22	2.54	0.42
12:r:185:ARG:O	12:r:188:GLY:N	2.47	0.42
14:t:54:LEU:HD23	14:t:54:LEU:HA	1.81	0.42
15:u:113:THR:HB	15:u:116:GLU:H	1.84	0.42
19:y:64:VAL:HG22	19:y:96:PHE:CE1	2.54	0.42
19:y:113:LYS:HE3	19:y:113:LYS:HB2	1.64	0.42
21:0:148:LEU:HD12	21:0:149:LYS:N	2.34	0.42
25:6:55:A:H1'	25:6:426:G:N2	2.33	0.42
25:6:336:G:N2	57:s8:7:SER:OG	2.46	0.42
25:6:632:U:OP1	60:c1:102:LYS:HE2	2.19	0.42
25:6:686:C:H2'	25:6:687:G:C8	2.55	0.42
25:6:901:G:C6	25:6:902:G:C6	3.07	0.42
25:6:1030:A:C5	25:6:1792:G:C6	3.07	0.42
25:6:1079:U:H2'	25:6:1080:U:C6	2.54	0.42
27:8:67:ILE:HD13	27:8:115:ARG:HH21	1.84	0.42
28:9:87:LYS:O	28:9:94:SER:OG	2.24	0.42
36:AH:95:ILE:O	36:AH:99:LYS:HB2	2.20	0.42
1:AR:1235:U:C4'	1:AR:1236:G:H5'	2.45	0.42
1:AR:2179:C:O2'	4:CD:174:ARG:NH2	2.52	0.42
1:AR:2687:G:OP1	7:CG:8:LYS:HE3	2.19	0.42
1:AR:3112:G:O2'	11:CK:70:THR:HB	2.19	0.42
1:AR:3236:U:H1'	1:AR:3252:G:N2	2.34	0.42
1:AR:3257:C:H2'	1:AR:3258:U:O4'	2.20	0.42
5:CE:233:TRP:CG	5:CE:265:ALA:HB1	2.53	0.42
5:CE:292:ALA:HA	5:CE:303:LYS:O	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:328:ILE:HG23	5:CE:329:PRO:O	2.20	0.42
7:CG:122:VAL:CG2	7:CG:125:VAL:H	2.33	0.42
7:CG:184:ASP:CG	7:CG:187:THR:HG22	2.44	0.42
10:CJ:91:PHE:CZ	10:CJ:185:ARG:HB3	2.54	0.42
10:CJ:134:TYR:CD2	10:CJ:190:VAL:HG21	2.54	0.42
10:CJ:173:MET:HE2	38:DK:39:PHE:CE2	2.55	0.42
12:CL:19:LYS:HA	12:CL:23:ASN:HD22	1.84	0.42
17:CQ:186:ALA:O	17:CQ:187:GLU:HB3	2.18	0.42
21:CU:67:ALA:C	21:CU:69:PRO:HD3	2.45	0.42
27:CZ:109:LYS:HB2	27:CZ:109:LYS:HE3	1.74	0.42
28:DA:103:LYS:HA	28:DA:103:LYS:HD3	1.73	0.42
30:DC:22:ILE:O	30:DC:24:LYS:HE2	2.20	0.42
30:DC:133:LEU:CD1	30:DC:137:LYS:HE3	2.50	0.42
44:DQ:47:GLN:NE2	44:DQ:53:GLN:HA	2.35	0.42
25:A:381:C:H1'	25:A:756:A:C2	2.55	0.42
25:A:629:U:OP2	25:A:969:C:N4	2.52	0.42
25:A:806:A:N6	56:I:104:ARG:HH22	2.18	0.42
25:A:886:U:H2'	25:A:887:A:O4'	2.19	0.42
25:A:900:A:OP1	63:P:43:THR:OG1	2.38	0.42
25:A:1294:G:C2	25:A:1322:A:C5	3.07	0.42
25:A:1370:U:O4	84:A:1998:OHX:N5	2.52	0.42
25:A:1629:G:H2'	25:A:1630:U:C6	2.54	0.42
55:H:98:ARG:HD3	55:H:99:GLY:N	2.34	0.42
57:J:76:THR:HB	57:J:105:ASP:CB	2.49	0.42
58:K:60:LEU:HD22	58:K:93:LEU:HD11	2.01	0.42
63:P:29:HIS:ND1	63:P:29:HIS:O	2.53	0.42
65:R:113:ASP:OD1	65:R:116:LEU:HB2	2.19	0.42
66:S:106:THR:O	66:S:110:VAL:HG23	2.19	0.42
81:h:240:VAL:HA	81:h:255:ALA:O	2.20	0.42
49:s0:120:LEU:HD21	49:s0:144:ILE:HD11	2.02	0.42
51:s2:140:ARG:NH1	51:s2:229:LEU:HD11	2.34	0.42
52:s3:11:LEU:HD23	52:s3:11:LEU:HA	1.79	0.42
61:c2:30:VAL:HB	61:c2:132:GLU:CD	2.44	0.42
67:c8:23:ASP:OD2	67:c8:25:ASN:ND2	2.53	0.42
69:d0:36:ASN:OD1	69:d0:37:VAL:N	2.52	0.42
71:d2:18:GLU:OE2	71:d2:65:LEU:HB3	2.19	0.42
77:d8:32:PHE:HB3	77:d8:35:ASP:O	2.19	0.42
81:sR:126:SER:HB3	81:sR:128:ASP:OD1	2.19	0.42
1:1:627:U:H2'	1:1:628:A:C8	2.54	0.42
1:1:1015:U:O2	1:1:1017:C:O2'	2.32	0.42
1:1:1018:G:H8	1:1:1018:G:OP2	2.01	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1090:G:H2'	1:1:1091:A:H8	1.85	0.42
1:1:1107:C:H2'	1:1:1108:U:H6	1.84	0.42
1:1:1620:U:H2'	1:1:1621:A:C8	2.55	0.42
1:1:2557:A:C2	10:p:38:GLN:HA	2.55	0.42
1:1:2664:C:H2'	1:1:2665:U:C6	2.54	0.42
1:1:2947:G:C2	5:k:250:ALA:HB1	2.54	0.42
5:k:218:ILE:HG12	5:k:276:THR:HG23	2.01	0.42
7:m:92:LEU:H	7:m:92:LEU:HD12	1.84	0.42
8:n:129:GLU:HB2	8:n:130:ILE:H	1.46	0.42
9:o:123:THR:O	9:o:126:LEU:HB2	2.19	0.42
11:q:138:THR:O	11:q:139:ASN:ND2	2.52	0.42
14:t:157:ARG:NH2	30:AB:101:VAL:HG21	2.35	0.42
17:w:51:LYS:HE2	17:w:144:SER:CB	2.50	0.42
19:y:65:SER:HA	19:y:93:ILE:HD13	2.00	0.42
19:y:131:ALA:HB1	19:y:135:GLN:HG2	2.00	0.42
25:6:957:G:C5	25:6:958:U:C4	3.07	0.42
25:6:1003:A:H1'	25:6:1005:A:N7	2.34	0.42
25:6:1118:G:H2'	25:6:1119:G:O4'	2.20	0.42
25:6:1273:G:H4'	25:6:1274:C:H5''	2.00	0.42
25:6:1347:U:O2	25:6:1516:A:H5'	2.20	0.42
25:6:1446:A:O2'	25:6:1448:G:N7	2.47	0.42
25:6:1460:A:H4'	48:sM:72:ARG:HD2	2.01	0.42
25:6:1508:U:H2'	25:6:1509:C:H6	1.84	0.42
25:6:1690:G:H1	25:6:1711:C:N4	2.14	0.42
25:6:1734:U:H2'	25:6:1735:U:H6	1.83	0.42
29:AA:57:HIS:HB3	29:AA:62:VAL:HG22	2.02	0.42
30:AB:77:LYS:O	30:AB:79:TRP:N	2.53	0.42
35:AG:73:ARG:HG3	35:AG:82:ARG:HB2	2.02	0.42
1:AR:95:A:H5''	30:DC:34:MET:CB	2.50	0.42
1:AR:303:G:C2	1:AR:2778:G:N7	2.87	0.42
1:AR:517:G:O6	84:AR:3575:OHX:N4	2.53	0.42
1:AR:1081:U:OP1	84:AR:3500:OHX:N5	2.52	0.42
1:AR:2510:U:O2'	1:AR:2511:A:H8	2.01	0.42
1:AR:2895:G:O2'	42:DO:100:TYR:O	2.31	0.42
1:AR:2947:G:N2	1:AR:2948:C:C2	2.87	0.42
1:AR:3063:C:H2'	1:AR:3064:U:C6	2.54	0.42
1:AR:3110:C:H2'	1:AR:3111:U:O4'	2.20	0.42
1:AR:3112:G:O2'	1:AR:3122:A:N6	2.51	0.42
1:AR:3375:A:O2'	1:AR:3378:C:OP2	2.37	0.42
2:AS:70:U:H2'	2:AS:71:G:H8	1.83	0.42
2:AS:120:C:H2'	7:CG:265:TYR:CE1	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:CI:229:PHE:CD1	9:CI:229:PHE:C	2.97	0.42
10:CJ:72:PRO:HG2	10:CJ:75:ILE:HD12	2.01	0.42
11:CK:173:ARG:HD2	42:DO:124:LYS:HE3	2.01	0.42
17:CQ:42:ASN:OD1	17:CQ:125:ARG:HD3	2.19	0.42
39:DL:60:GLY:HA2	39:DL:64:MET:HG3	2.01	0.42
25:A:325:G:H4'	60:M:83:THR:HG21	2.01	0.42
25:A:757:A:H4'	53:F:22:LYS:HD2	2.00	0.42
25:A:867:G:N7	84:A:1910:OHX:N2	2.67	0.42
25:A:1279:C:OP2	52:E:185:LYS:NZ	2.46	0.42
25:A:1282:U:H5''	84:A:1992:OHX:N2	2.34	0.42
25:A:1329:A:N1	66:S:7:LYS:NZ	2.68	0.42
25:A:1781:A:H2'	25:A:1782:A:O4'	2.19	0.42
50:C:149:GLN:NE2	50:C:154:SER:HB2	2.35	0.42
51:D:218:ILE:H	51:D:218:ILE:HG13	1.69	0.42
53:F:199:GLU:OE1	53:F:207:LEU:HD12	2.19	0.42
54:G:43:PHE:O	54:G:44:ASN:C	2.62	0.42
54:G:63:GLN:CB	54:G:88:PRO:HA	2.49	0.42
58:K:117:GLY:C	58:K:119:ALA:H	2.27	0.42
59:L:59:PHE:CE2	59:L:62:GLN:HG2	2.54	0.42
68:U:118:PRO:C	68:U:120:GLY:H	2.26	0.42
71:X:53:ILE:HG12	71:X:60:LYS:HB2	2.00	0.42
74:a:40:VAL:O	74:a:75:LEU:HD11	2.19	0.42
49:s0:38:PHE:CG	82:c7:109:LEU:HD13	2.54	0.42
60:c1:128:CYS:O	60:c1:129:ARG:HB3	2.19	0.42
82:c7:47:ARG:HD2	82:c7:48:ASN:OD1	2.19	0.42
67:c8:11:PHE:CD2	74:d5:41:ILE:HD13	2.54	0.42
69:d0:70:THR:HG22	69:d0:71:PRO:O	2.19	0.42
1:1:83:U:OP1	84:1:3717:OHX:N5	2.53	0.42
1:1:687:U:H2'	1:1:688:G:C8	2.55	0.42
1:1:940:G:H2'	1:1:941:G:C8	2.55	0.42
1:1:1011:A:H1'	12:r:193:ASP:OD1	2.19	0.42
1:1:1447:G:H3'	18:x:67:ILE:CD1	2.47	0.42
1:1:1636:U:H5''	29:AA:73:LYS:NZ	2.34	0.42
1:1:1662:G:N2	1:1:1788:C:O2	2.53	0.42
1:1:1668:G:C6	1:1:1669:C:C4	3.07	0.42
1:1:1816:A:HO2'	1:1:1817:G:P	2.40	0.42
1:1:2190:U:C4	1:1:2191:U:C4	3.07	0.42
1:1:2356:A:H5'	18:x:138:LYS:HE3	2.01	0.42
1:1:2696:A:H2'	1:1:2697:A:C8	2.55	0.42
1:1:3183:A:H2	1:1:3188:G:H4'	1.84	0.42
1:1:3233:C:H2'	1:1:3234:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:3326:G:H2'	1:1:3327:G:C8	2.53	0.42
2:3:43:U:OP1	13:s:137:ARG:NE	2.50	0.42
3:4:67:U:H2'	3:4:68:G:C8	2.54	0.42
5:k:148:LEU:HD12	5:k:148:LEU:HA	1.81	0.42
5:k:224:HIS:HB2	5:k:270:ARG:HB3	2.02	0.42
7:m:286:VAL:HG13	12:r:206:LEU:HD22	2.01	0.42
11:q:87:LYS:HE3	11:q:145:VAL:CG1	2.50	0.42
17:w:54:TYR:OH	17:w:73:PHE:O	2.30	0.42
20:z:172:ARG:O	20:z:176:ARG:HG2	2.19	0.42
25:6:17:C:H2'	25:6:18:C:C6	2.54	0.42
25:6:823:G:C5	25:6:850:A:C2	3.08	0.42
25:6:884:A:H5''	50:s1:136:ARG:NE	2.34	0.42
25:6:1159:C:O2	84:6:1994:OHX:N3	2.52	0.42
25:6:1185:U:C2	25:6:1458:G:C8	3.07	0.42
25:6:1696:G:N2	25:6:1704:U:H3	2.18	0.42
30:AB:116:GLY:HA2	30:AB:137:LYS:CE	2.45	0.42
37:AI:6:ALA:HB1	37:AI:10:ARG:NH2	2.34	0.42
37:AI:88:LEU:HD23	37:AI:88:LEU:HA	1.85	0.42
46:i:63:ASP:OD2	64:Q:127:ARG:NH2	2.43	0.42
1:AR:188:U:H1'	1:AR:208:C:H1'	2.00	0.42
1:AR:252:U:O4	10:CJ:120:LYS:HA	2.20	0.42
1:AR:412:G:C6	1:AR:413:U:C4	3.07	0.42
1:AR:802:C:O2'	1:AR:803:C:H5'	2.20	0.42
1:AR:849:C:H2'	1:AR:850:U:C6	2.54	0.42
1:AR:892:U:OP2	84:AR:3417:OHX:N6	2.52	0.42
1:AR:1120:A:C2	1:AR:1139:G:C2	3.07	0.42
1:AR:2714:G:N2	1:AR:2751:G:C5	2.88	0.42
1:AR:2830:G:H1'	1:AR:2861:U:C2	2.55	0.42
1:AR:3107:U:H2'	1:AR:3108:G:C8	2.54	0.42
1:AR:3217:C:C5	1:AR:3220:G:H1'	2.54	0.42
4:CD:137:ILE:HG12	4:CD:147:ARG:HB3	2.01	0.42
5:CE:188:ILE:H	5:CE:188:ILE:HG13	1.60	0.42
6:CF:138:ARG:HE	6:CF:240:PRO:HD2	1.85	0.42
7:CG:86:TYR:CE1	7:CG:247:ILE:HA	2.54	0.42
10:CJ:214:LEU:HD12	10:CJ:214:LEU:HA	1.83	0.42
13:CM:166:LYS:HD3	13:CM:167:TYR:CD2	2.55	0.42
18:CR:119:VAL:HA	18:CR:145:HIS:O	2.19	0.42
21:CU:77:VAL:HG11	21:CU:106:LEU:HD22	2.02	0.42
24:CX:118:VAL:HG21	24:CX:133:SER:HB3	2.02	0.42
30:DC:126:LYS:HB3	30:DC:148:ILE:HD13	2.01	0.42
35:DH:13:HIS:CD2	35:DH:28:SER:HG	2.32	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:DH:75:HIS:HB2	35:DH:82:ARG:HG3	2.01	0.42
44:DQ:57:VAL:O	44:DQ:59:HIS:ND1	2.53	0.42
45:DR:8:VAL:HB	45:DR:11:THR:HG22	2.01	0.42
47:p0:79:PHE:CG	47:p0:189:GLN:HG3	2.53	0.42
25:A:105:A:H4'	57:J:8:ARG:NH1	2.35	0.42
25:A:106:U:H2'	25:A:107:C:O4'	2.20	0.42
25:A:370:A:H2'	25:A:371:G:O4'	2.19	0.42
25:A:491:C:N4	25:A:496:G:H1	2.03	0.42
25:A:585:A:N6	25:A:586:G:O6	2.52	0.42
25:A:694:U:H5	56:I:96:ARG:O	2.03	0.42
25:A:761:G:O6	84:A:1939:OHX:N1	2.53	0.42
49:B:53:THR:OG1	49:B:161:PRO:HG2	2.19	0.42
49:B:60:ALA:O	49:B:64:ILE:N	2.44	0.42
49:B:71:GLU:HA	49:B:94:GLY:O	2.19	0.42
52:E:138:VAL:O	52:E:149:ALA:HA	2.19	0.42
53:F:240:LYS:H	53:F:240:LYS:CD	2.30	0.42
54:G:53:VAL:HB	54:G:59:VAL:HG22	2.02	0.42
55:H:88:ARG:HB3	55:H:91:GLU:HB2	2.00	0.42
57:J:149:SER:C	57:J:151:LYS:H	2.27	0.42
60:M:109:VAL:HA	60:M:135:VAL:HG13	2.01	0.42
62:O:112:LYS:O	62:O:116:ILE:HG13	2.19	0.42
68:U:66:TYR:HD2	68:U:67:MET:HE3	1.84	0.42
78:e:20:GLN:OE1	78:e:25:SER:HB2	2.18	0.42
49:s0:160:ILE:HA	49:s0:161:PRO:HD3	1.93	0.42
65:c6:47:LYS:HA	65:c6:47:LYS:HD2	1.69	0.42
1:1:65:A:H3'	1:1:111:C:N4	2.34	0.42
1:1:616:G:H2'	1:1:617:G:C8	2.55	0.42
1:1:864:G:O6	1:1:893:C:H3'	2.19	0.42
1:1:1105:A:C2	1:1:1106:G:C4	3.08	0.42
1:1:1145:G:OP1	34:AF:44:ARG:NH1	2.45	0.42
1:1:1426:C:H4'	6:l:40:THR:HB	2.02	0.42
1:1:1699:A:H2'	1:1:1700:G:H8	1.84	0.42
1:1:1863:G:N1	1:1:1866:C:OP2	2.49	0.42
1:1:2220:A:N6	1:1:2221:G:C6	2.87	0.42
1:1:2640:A:OP1	22:2:55:LYS:NZ	2.48	0.42
1:1:2860:U:C6	1:1:2938:G:H4'	2.55	0.42
1:1:2875:U:C6	86:1:4216:7MB:BR	3.28	0.42
1:1:2982:A:C2	1:1:2984:C:N4	2.88	0.42
1:1:3306:U:H2'	1:1:3307:A:H5''	2.01	0.42
3:4:9:A:H2'	3:4:10:A:C8	2.54	0.42
3:4:49:G:H8	3:4:49:G:OP1	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:k:169:THR:HG21	5:k:171:LEU:HD12	2.00	0.42
5:k:188:ILE:H	5:k:188:ILE:HG13	1.57	0.42
7:m:52:VAL:HA	7:m:147:ASP:HB3	2.02	0.42
7:m:97:ALA:O	7:m:101:THR:OG1	2.37	0.42
7:m:107:ARG:HD3	7:m:248:ARG:HA	2.02	0.42
8:n:165:LEU:HD12	35:AG:8:TYR:O	2.19	0.42
11:q:20:ILE:HD12	11:q:45:PHE:CD2	2.54	0.42
11:q:38:LEU:HA	11:q:38:LEU:HD23	1.76	0.42
11:q:87:LYS:HE2	11:q:89:LYS:HE2	2.01	0.42
14:t:80:VAL:HG12	14:t:85:LEU:O	2.19	0.42
15:u:19:ARG:NH2	15:u:69:THR:HG23	2.34	0.42
19:y:124:LEU:HD23	19:y:124:LEU:HA	1.76	0.42
20:z:41:ILE:O	20:z:45:VAL:HG23	2.20	0.42
25:6:986:G:H2'	25:6:987:G:O4'	2.19	0.42
25:6:1204:A:H1'	25:6:1554:U:O4	2.19	0.42
25:6:1316:G:O2'	25:6:1401:A:O2'	2.34	0.42
25:6:1330:G:H2'	25:6:1331:A:O4'	2.19	0.42
27:8:113:LEU:HD12	27:8:114:VAL:C	2.45	0.42
39:AK:25:ARG:HG3	41:AM:51:ILE:HG22	2.02	0.42
1:AR:318:A:OP1	84:AR:3455:OHX:N5	2.52	0.42
1:AR:727:G:O6	1:AR:742:G:O2'	2.30	0.42
1:AR:739:G:O6	84:AR:3466:OHX:N6	2.53	0.42
1:AR:1103:A:H1'	1:AR:1104:G:OP1	2.19	0.42
1:AR:1718:G:OP2	20:CT:121:HIS:HD2	2.02	0.42
1:AR:2122:G:C6	1:AR:2332:A:C2	3.08	0.42
1:AR:2933:A:C2	1:AR:3014:U:H4'	2.54	0.42
1:AR:3269:U:H5'	1:AR:3269:U:O2	2.20	0.42
1:AR:3366:G:H2'	1:AR:3367:C:C6	2.55	0.42
84:AR:3524:OHX:N3	84:AR:3715:OHX:N1	2.68	0.42
3:AT:16:G:N7	84:AT:203:OHX:N4	2.67	0.42
3:AT:134:G:H5''	27:CZ:56:ARG:HH21	1.85	0.42
4:CD:147:ARG:CZ	4:CD:155:LYS:HD3	2.50	0.42
7:CG:18:THR:HA	7:CG:19:PRO:HD3	1.82	0.42
9:CI:202:LEU:HD23	9:CI:202:LEU:HA	1.73	0.42
11:CK:157:ASN:HA	11:CK:160:ASP:HB2	2.02	0.42
16:CP:60:VAL:O	16:CP:61:ILE:HD13	2.20	0.42
20:CT:92:GLN:HG2	20:CT:96:ILE:HD11	2.02	0.42
29:DB:110:ALA:O	29:DB:114:VAL:HG23	2.19	0.42
36:DI:74:ARG:HG2	36:DI:75:ALA:N	2.35	0.42
47:p0:75:LYS:O	47:p0:78:PRO:HD2	2.19	0.42
25:A:181:A:H2'	25:A:182:A:C8	2.55	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:438:A:H1'	25:A:466:U:O2	2.20	0.42
25:A:918:U:H2'	25:A:919:A:H8	1.85	0.42
25:A:1202:A:H1'	25:A:1207:C:H42	1.85	0.42
49:B:41:ARG:HB2	49:B:47:VAL:HG23	2.00	0.42
49:B:112:THR:OG1	49:B:113:ARG:N	2.53	0.42
52:E:72:LEU:HD22	59:L:65:TYR:HB3	2.02	0.42
55:H:58:LYS:C	55:H:60:GLY:H	2.28	0.42
57:J:138:ASN:N	57:J:138:ASN:OD1	2.52	0.42
58:K:13:SER:O	58:K:43:TYR:HB3	2.19	0.42
69:V:51:VAL:HG13	69:V:94:GLU:HB2	2.01	0.42
73:Z:8:ARG:HB2	73:Z:26:ASP:HB3	2.01	0.42
81:h:93:ASP:HB2	81:h:100:TYR:HE2	1.84	0.42
51:s2:231:ALA:O	70:d1:16:LYS:NZ	2.50	0.42
52:s3:191:ASP:HA	52:s3:192:PRO:HD2	1.84	0.42
57:s8:81:VAL:N	57:s8:94:ASN:OD1	2.45	0.42
69:d0:63:LEU:HD22	78:d9:34:TYR:CZ	2.55	0.42
72:d3:79:ASN:CG	72:d3:81:LYS:HG3	2.45	0.42
77:d8:49:ARG:HG2	77:d8:52:ASP:OD2	2.19	0.42
1:1:714:G:C2	30:AB:113:LEU:HD11	2.54	0.42
1:1:1658:G:O6	84:1:3702:OHX:N4	2.52	0.42
1:1:2193:U:O4	1:1:2243:A:N6	2.52	0.42
1:1:2424:A:N1	4:j:230:VAL:HG21	2.35	0.42
1:1:2439:A:H2'	1:1:2440:G:H8	1.85	0.42
1:1:3082:C:H2'	1:1:3083:G:H8	1.83	0.42
2:3:19:C:H2'	2:3:20:A:C8	2.55	0.42
3:4:23:U:C4'	28:9:17:LYS:HG2	2.50	0.42
4:j:10:LYS:HA	4:j:16:PHE:CD2	2.54	0.42
5:k:120:LYS:HD3	5:k:120:LYS:HA	1.63	0.42
6:l:179:LEU:HD13	6:l:183:LYS:HG3	2.02	0.42
9:o:88:ARG:CZ	9:o:103:LEU:HD13	2.50	0.42
13:s:40:LEU:HD23	13:s:114:ILE:HG12	2.01	0.42
18:x:24:VAL:HG21	18:x:90:PHE:CG	2.54	0.42
21:0:27:MET:HG2	22:2:151:LEU:O	2.20	0.42
25:6:44:U:OP2	25:6:437:A:N6	2.53	0.42
25:6:59:C:C4	25:6:452:A:C6	3.07	0.42
25:6:675:U:O2'	25:6:676:G:H5'	2.20	0.42
25:6:882:U:H2'	25:6:883:C:H6	1.84	0.42
25:6:1660:A:C6	25:6:1661:U:C4	3.08	0.42
25:6:1676:U:H5''	57:s8:58:LEU:HD21	2.01	0.42
25:6:1756:A:O5'	25:6:1756:A:H8	2.03	0.42
33:AE:29:ALA:HB3	33:AE:30:PRO:HD3	2.02	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:728:G:H5''	19:CS:43:PRO:HB2	2.02	0.42
1:AR:784:A:C6	19:CS:93:ILE:HG22	2.55	0.42
1:AR:794:U:H2'	1:AR:795:G:C8	2.55	0.42
1:AR:1132:C:H2'	1:AR:1133:A:C8	2.55	0.42
1:AR:1162:U:H4'	34:DG:57:TYR:CE1	2.55	0.42
1:AR:1781:C:H2'	1:AR:1782:U:C6	2.54	0.42
1:AR:2181:C:H2'	1:AR:2182:A:O4'	2.19	0.42
1:AR:2807:U:O3'	1:AR:2808:A:H3'	2.20	0.42
1:AR:3285:C:H2'	1:AR:3286:G:O4'	2.19	0.42
3:AT:56:G:C2	3:AT:57:C:C2	3.08	0.42
5:CE:257:PRO:HG2	5:CE:261:MET:HE3	2.02	0.42
12:CL:48:LEU:HD22	12:CL:49:CYS:H	1.84	0.42
24:CX:34:LEU:HD23	24:CX:34:LEU:HA	1.79	0.42
24:CX:109:MET:HE2	24:CX:109:MET:HB3	1.64	0.42
31:DD:18:ARG:HD2	31:DD:18:ARG:HA	1.84	0.42
25:A:52:U:H2'	25:A:53:G:C8	2.55	0.42
25:A:1031:U:H4'	25:A:1032:G:OP2	2.19	0.42
25:A:1191:U:H6	25:A:1191:U:O5'	2.03	0.42
25:A:1488:G:O2'	25:A:1494:C:O2	2.31	0.42
25:A:1614:A:C6	25:A:1615:C:C4	3.08	0.42
25:A:1669:U:O4	84:A:1933:OHX:N2	2.53	0.42
49:B:55:GLU:HG2	70:W:79:LEU:HD23	2.01	0.42
50:C:65:VAL:O	63:P:34:SER:HA	2.20	0.42
51:D:49:LYS:HD3	51:D:49:LYS:HA	1.78	0.42
52:E:21:LEU:HA	52:E:21:LEU:HD23	1.79	0.42
52:E:102:ALA:HA	52:E:186:VAL:HG21	2.01	0.42
54:G:82:PHE:CD1	54:G:165:LEU:HD22	2.55	0.42
66:S:19:ARG:HG3	66:S:20:TYR:CE1	2.55	0.42
67:T:123:ARG:HG3	67:T:133:VAL:CG2	2.49	0.42
69:V:26:LEU:O	69:V:89:ARG:N	2.38	0.42
72:Y:13:ARG:O	72:Y:16:ARG:HG3	2.19	0.42
78:e:31:ILE:HG22	78:e:36:LEU:HD11	2.01	0.42
81:h:6:VAL:HG22	81:h:7:LEU:H	1.85	0.42
49:s0:122:ILE:HG23	49:s0:144:ILE:HB	2.02	0.42
52:s3:4:LEU:HD23	52:s3:4:LEU:HA	1.92	0.42
52:s3:60:GLY:HA3	52:s3:65:ARG:HB3	2.02	0.42
53:s4:170:THR:O	53:s4:170:THR:OG1	2.37	0.42
54:s5:93:LEU:HD23	54:s5:93:LEU:HA	1.88	0.42
55:s6:109:LEU:HD23	55:s6:109:LEU:HA	1.86	0.42
58:s9:35:GLY:O	58:s9:110:GLN:NE2	2.52	0.42
58:s9:181:ALA:O	58:s9:185:GLY:HA3	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
62:c3:9:LYS:HD3	62:c3:9:LYS:HA	1.74	0.42
63:c4:50:ALA:C	63:c4:52:ARG:N	2.76	0.42
65:c6:43:ILE:HD13	65:c6:43:ILE:H	1.84	0.42
65:c6:128:LYS:O	65:c6:137:ARG:NH2	2.53	0.42
82:c7:108:ASP:HA	82:c7:111:LYS:HB2	2.01	0.42
69:d0:24:ILE:HG12	69:d0:116:VAL:HG12	2.02	0.42
81:sR:282:SER:N	81:sR:285:ALA:HB3	2.35	0.42
1:1:677:A:C8	1:1:786:A:C6	3.08	0.42
1:1:1734:G:N7	84:1:3453:OHX:N5	2.68	0.42
1:1:2298:U:O4	1:1:2923:U:H5	2.03	0.42
1:1:2761:G:C4	1:1:2795:U:C5	3.08	0.42
1:1:2948:C:H2'	1:1:2949:U:O4'	2.20	0.42
1:1:3051:U:C2	1:1:3052:G:C8	3.08	0.42
1:1:3082:C:OP2	84:1:3474:OHX:N2	2.53	0.42
1:1:3113:A:H2'	1:1:3114:A:O4'	2.19	0.42
2:3:71:G:H2'	2:3:72:A:C8	2.54	0.42
5:k:10:ARG:CZ	5:k:14:LEU:HD21	2.50	0.42
5:k:283:TYR:CE2	5:k:325:LYS:HB2	2.54	0.42
6:l:304:GLN:C	6:l:306:THR:H	2.28	0.42
14:t:13:HIS:N	14:t:13:HIS:ND1	2.67	0.42
14:t:36:ARG:HG2	14:t:39:ARG:NH2	2.35	0.42
15:u:8:LYS:HB3	15:u:8:LYS:HE3	1.79	0.42
16:v:15:GLN:HB3	38:AJ:51:SER:CB	2.50	0.42
17:w:139:GLY:O	17:w:143:THR:HB	2.19	0.42
18:x:52:LEU:HD12	18:x:52:LEU:HA	1.90	0.42
21:0:90:MET:HE1	21:0:114:HIS:CD2	2.55	0.42
25:6:138:A:N6	25:6:266:A:N6	2.66	0.42
1:AR:869:G:H1'	1:AR:891:G:N2	2.34	0.42
1:AR:1579:C:N4	1:AR:1580:A:H62	2.18	0.42
1:AR:2186:U:H2'	1:AR:2187:G:O4'	2.20	0.42
1:AR:2304:C:C5	1:AR:2305:G:C6	3.07	0.42
1:AR:2344:U:H2'	1:AR:2345:A:C8	2.54	0.42
1:AR:2357:A:H2'	1:AR:2358:A:C8	2.55	0.42
1:AR:2375:G:O2'	1:AR:2377:G:OP2	2.22	0.42
1:AR:2523:A:O2'	1:AR:2587:U:H1'	2.19	0.42
1:AR:2568:C:O2'	1:AR:2569:A:O4'	2.32	0.42
1:AR:2725:U:H3'	1:AR:2726:C:O2	2.19	0.42
1:AR:3003:G:P	5:CE:26:ARG:HH22	2.43	0.42
1:AR:3046:A:H2'	1:AR:3047:U:O4'	2.19	0.42
4:CD:179:LEU:HD12	4:CD:179:LEU:HA	1.82	0.42
5:CE:252:ILE:CG1	5:CE:266:ARG:HH21	2.23	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:CF:185:LYS:HA	6:CF:200:THR:O	2.19	0.42
7:CG:110:LEU:HD12	7:CG:110:LEU:HA	1.68	0.42
8:CH:42:LEU:HD23	8:CH:84:VAL:HG22	2.02	0.42
9:CI:180:SER:H	9:CI:183:ASP:HB2	1.85	0.42
10:CJ:136:LEU:HA	10:CJ:197:VAL:HG21	2.01	0.42
17:CQ:27:LEU:H	17:CQ:27:LEU:HG	1.56	0.42
17:CQ:50:ASN:HA	17:CQ:53:LYS:HB2	2.00	0.42
22:CV:97:LYS:HB2	22:CV:97:LYS:HE3	1.48	0.42
31:DD:16:ALA:HB1	31:DD:21:ILE:HD11	2.02	0.42
33:DF:19:ARG:HD3	33:DF:35:GLU:HG3	2.01	0.42
38:DK:57:LEU:HD23	38:DK:57:LEU:HA	1.76	0.42
48:sM:61:ILE:CG2	67:c8:120:ARG:HG3	2.50	0.42
25:A:1298:U:O3'	51:D:212:LYS:NZ	2.51	0.42
25:A:1606:C:H2'	25:A:1607:G:C8	2.54	0.42
50:C:30:PHE:CD1	50:C:96:LEU:HD22	2.55	0.42
50:C:69:CYS:SG	63:P:114:ARG:HD3	2.59	0.42
59:L:71:GLU:H	59:L:71:GLU:HG2	1.66	0.42
60:M:7:VAL:CG1	60:M:8:GLN:H	2.26	0.42
62:O:91:LEU:HD23	62:O:91:LEU:HA	1.79	0.42
63:P:112:ILE:O	75:b:57:SER:HB3	2.20	0.42
66:S:16:LEU:HD23	66:S:16:LEU:HA	1.82	0.42
66:S:84:TYR:C	66:S:85:VAL:HG23	2.45	0.42
72:Y:27:ASN:O	72:Y:31:LYS:HG2	2.19	0.42
74:a:74:SER:HA	74:a:77:ARG:NH2	2.34	0.42
75:b:4:LYS:HD3	75:b:5:ARG:HH21	1.85	0.42
81:h:108:SER:HB2	81:h:128:ASP:HB3	2.01	0.42
49:s0:138:TYR:O	70:d1:29:HIS:HB3	2.19	0.42
49:s0:163:ASN:C	49:s0:165:ARG:H	2.28	0.42
52:s3:46:THR:N	52:s3:83:THR:O	2.53	0.42
53:s4:10:LYS:NZ	58:s9:2:PRO:HB3	2.34	0.42
54:s5:146:THR:OG1	54:s5:157:ARG:HB3	2.20	0.42
55:s6:50:PHE:HB3	55:s6:111:LEU:HB3	2.01	0.42
56:s7:41:LEU:HB3	56:s7:70:PHE:CZ	2.55	0.42
62:c3:85:PRO:HG2	62:c3:129:TYR:CD2	2.55	0.42
64:c5:74:ALA:HA	64:c5:75:PRO:HD3	1.91	0.42
77:d8:11:LYS:N	77:d8:31:GLU:O	2.51	0.42
81:sR:95:ALA:C	81:sR:97:GLY:H	2.28	0.42
1:1:3:U:C2	3:4:157:U:C2	3.07	0.42
1:1:196:G:N2	1:1:198:A:H3'	2.34	0.42
1:1:392:G:N7	84:1:3567:OHX:N2	2.68	0.42
1:1:533:A:H4'	1:1:534:U:OP1	2.19	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:709:A:H1'	1:1:2787:G:O2'	2.19	0.42
1:1:953:G:C8	1:1:1117:G:C8	3.07	0.42
1:1:1487:G:H1	1:1:1855:U:H3	1.68	0.42
1:1:1639:C:O2'	1:1:1640:G:H5'	2.19	0.42
1:1:1941:C:H2'	1:1:1942:U:C6	2.55	0.42
1:1:3098:G:H4'	5:k:278:ILE:HD11	2.02	0.42
1:1:3133:C:H2'	1:1:3134:A:O4'	2.19	0.42
4:j:45:VAL:HA	4:j:61:VAL:HA	2.02	0.42
5:k:208:VAL:HG12	5:k:340:LYS:HE2	2.02	0.42
5:k:221:THR:HG22	5:k:222:LYS:O	2.19	0.42
9:o:144:ILE:O	9:o:148:VAL:HG23	2.19	0.42
10:p:200:LEU:HD23	10:p:200:LEU:HA	1.91	0.42
14:t:89:TYR:CZ	14:t:93:ILE:HD11	2.55	0.42
17:w:54:TYR:HE1	17:w:58:LEU:HD22	1.85	0.42
21:0:12:ARG:HB3	21:0:24:LEU:HD23	2.01	0.42
21:0:155:ARG:HD3	21:0:172:TYR:CD1	2.55	0.42
25:6:526:A:N6	25:6:527:A:C5	2.88	0.42
25:6:833:U:O4	84:6:1956:OHX:N2	2.52	0.42
25:6:891:A:H2'	25:6:892:A:C8	2.54	0.42
25:6:1369:U:OP2	68:c9:69:LYS:NZ	2.41	0.42
25:6:1582:U:H5''	65:c6:135:ARG:HH11	1.84	0.42
84:6:1981:OHX:N4	60:c1:18:HIS:O	2.53	0.42
39:AK:74:PHE:HA	39:AK:78:PHE:CE1	2.55	0.42
42:AN:103:LEU:HD23	42:AN:103:LEU:HA	1.75	0.42
1:AR:951:A:OP2	1:AR:1367:G:N2	2.47	0.42
1:AR:1020:G:C6	1:AR:1033:U:C2	3.07	0.42
1:AR:1193:A:H2'	1:AR:1194:G:O4'	2.19	0.42
1:AR:1878:G:H5'	84:AR:3457:OHX:N5	2.35	0.42
1:AR:2941:A:O5'	1:AR:2943:G:H4'	2.19	0.42
1:AR:3203:U:H2'	1:AR:3204:C:H6	1.84	0.42
4:CD:49:VAL:HG22	4:CD:50:HIS:N	2.35	0.42
10:CJ:170:CYS:HB3	10:CJ:175:VAL:O	2.19	0.42
11:CK:31:ARG:HG2	11:CK:149:ASN:ND2	2.35	0.42
15:CO:123:LEU:HD23	15:CO:123:LEU:HA	1.78	0.42
16:CP:113:LEU:HD12	16:CP:134:LEU:HB3	2.01	0.42
19:CS:155:MET:HE2	19:CS:163:PRO:HB3	2.01	0.42
20:CT:106:LEU:HB3	20:CT:120:TYR:CE1	2.55	0.42
26:CY:4:GLU:HG2	26:CY:30:ARG:CD	2.48	0.42
42:DO:113:ARG:O	42:DO:113:ARG:HG3	2.15	0.42
25:A:1039:A:O2'	25:A:1040:G:OP2	2.34	0.42
25:A:1683:C:O2'	25:A:1684:U:O5'	2.36	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
49:B:111:ILE:HD12	49:B:111:ILE:HA	1.88	0.42
51:D:213:ALA:O	51:D:217:ALA:N	2.48	0.42
54:G:73:THR:HG23	65:R:114:ARG:CG	2.50	0.42
54:G:161:ASP:O	77:d:44:VAL:HA	2.20	0.42
55:H:85:ARG:HA	55:H:86:PRO:HD3	1.86	0.42
56:I:23:ALA:O	56:I:27:LEU:HG	2.20	0.42
57:J:106:ALA:CB	57:J:165:LEU:HG	2.49	0.42
57:J:157:GLU:O	57:J:160:PHE:HB2	2.20	0.42
60:M:21:ASN:O	60:M:21:ASN:ND2	2.50	0.42
60:M:22:ASN:HA	60:M:23:PRO:HD3	1.81	0.42
69:V:82:TYR:HB3	78:e:52:PHE:HB3	2.00	0.42
73:Z:29:HIS:CE1	73:Z:34:ASN:H	2.38	0.42
78:e:10:HIS:CG	78:e:11:PRO:HD2	2.55	0.42
78:e:33:LYS:O	78:e:36:LEU:HG	2.19	0.42
50:s1:119:THR:O	50:s1:142:PHE:HA	2.20	0.42
51:s2:90:THR:HG22	51:s2:93:GLY:C	2.45	0.42
52:s3:57:ASP:OD1	52:s3:57:ASP:N	2.52	0.42
52:s3:162:GLN:N	52:s3:163:PRO:HD2	2.35	0.42
53:s4:6:LYS:HE2	53:s4:6:LYS:HB2	1.71	0.42
56:s7:35:LYS:HE3	56:s7:35:LYS:HB3	1.84	0.42
59:c0:49:LEU:HB3	59:c0:55:VAL:CG1	2.50	0.42
61:c2:97:LEU:HD11	61:c2:121:VAL:HG22	2.02	0.42
67:c8:89:GLN:C	67:c8:91:ASP:H	2.26	0.42
68:c9:61:VAL:O	68:c9:65:ILE:HG13	2.20	0.42
69:d0:23:ARG:HD3	69:d0:92:ASP:OD1	2.19	0.42
71:d2:5:SER:O	71:d2:6:VAL:HB	2.20	0.42
76:d7:35:VAL:HG13	76:d7:78:SER:O	2.19	0.42
77:d8:14:LYS:HB2	77:d8:14:LYS:HE3	1.80	0.42
81:sR:62:LYS:O	81:sR:92:TRP:HH2	2.03	0.42
81:sR:84:SER:OG	81:sR:85:TRP:N	2.53	0.42
1:1:532:A:O2'	1:1:533:A:H5'	2.19	0.42
1:1:915:A:C5	1:1:917:A:H1'	2.54	0.42
1:1:1228:C:H2'	1:1:1229:G:C8	2.55	0.42
1:1:1294:A:O2'	1:1:1295:G:H5''	2.20	0.42
1:1:1536:G:N2	1:1:1586:G:H1'	2.35	0.42
1:1:2153:U:OP1	4:j:246:LEU:HB2	2.20	0.42
1:1:2254:U:H2'	1:1:2261:G:N2	2.35	0.42
1:1:2284:C:O2	84:1:3661:OHX:N2	2.53	0.42
1:1:2713:U:H3'	44:AP:9:LYS:O	2.20	0.42
1:1:2730:G:H2'	1:1:2731:U:O4'	2.19	0.42
1:1:2809:C:N3	1:1:2810:C:H1'	2.34	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2902:A:H2'	1:1:2903:A:O4'	2.19	0.42
1:1:2941:A:OP2	5:k:256:HIS:CD2	2.73	0.42
1:1:3046:A:H2'	1:1:3047:U:O4'	2.19	0.42
1:1:3073:A:H2'	1:1:3074:G:O4'	2.20	0.42
1:1:3145:C:H2'	1:1:3146:G:H8	1.84	0.42
1:1:3173:G:O6	35:AG:92:LYS:HG2	2.19	0.42
1:1:3255:U:H2'	1:1:3256:G:C8	2.54	0.42
1:1:3308:C:C4	1:1:3309:G:C5	3.08	0.42
2:3:97:A:H2'	2:3:98:C:C6	2.55	0.42
6:l:212:ASP:OD1	6:l:216:VAL:HG22	2.20	0.42
6:l:361:HIS:CG	6:l:362:ASP:H	2.38	0.42
7:m:105:ILE:O	7:m:109:THR:HG23	2.19	0.42
11:q:2:LYS:HB3	11:q:59:ASN:OD1	2.19	0.42
12:r:54:SER:HB2	12:r:135:ILE:HD11	2.00	0.42
12:r:125:LEU:HD23	12:r:125:LEU:HA	1.82	0.42
14:t:116:LEU:HD23	14:t:116:LEU:HA	1.90	0.42
15:u:93:LYS:HE3	15:u:93:LYS:HB2	1.94	0.42
21:0:1:MET:HE3	21:0:32:SER:HB3	2.01	0.42
22:2:131:GLN:HA	22:2:132:PRO:HD3	1.83	0.42
25:6:473:A:N6	25:6:474:A:C6	2.88	0.42
25:6:761:G:O2'	58:s9:72:GLU:OE2	2.30	0.42
25:6:1755:A:C2	25:6:1756:A:C8	3.08	0.42
25:6:1787:C:N4	25:6:1788:G:O6	2.52	0.42
43:AO:9:ARG:NH2	25:A:1642:G:H4'	2.35	0.42
1:AR:59:G:H4'	1:AR:60:A:H4'	2.02	0.42
1:AR:73:C:O2	14:CN:59:ARG:HD3	2.19	0.42
1:AR:378:A:H3'	1:AR:379:C:H6	1.85	0.42
1:AR:579:G:C2	1:AR:580:C:C2	3.08	0.42
1:AR:628:A:H2'	1:AR:629:U:O4'	2.20	0.42
1:AR:723:U:O4	84:AR:3515:OHX:N5	2.53	0.42
1:AR:1088:U:H2'	1:AR:1089:G:H8	1.85	0.42
1:AR:1386:A:C8	6:CF:183:LYS:HB3	2.55	0.42
1:AR:2248:C:O2'	1:AR:2272:G:H1'	2.19	0.42
1:AR:2713:U:H3'	44:DQ:9:LYS:O	2.20	0.42
1:AR:3191:G:H2'	1:AR:3192:U:C6	2.55	0.42
1:AR:3350:C:O2'	1:AR:3351:U:OP1	2.34	0.42
6:CF:30:ILE:O	19:CS:25:TYR:HE1	2.02	0.42
6:CF:203:ARG:HH21	6:CF:240:PRO:HB3	1.85	0.42
9:CI:84:VAL:HG21	9:CI:127:LEU:HD11	2.01	0.42
10:CJ:247:ASP:O	10:CJ:251:LYS:HB2	2.19	0.42
11:CK:41:ILE:HG22	11:CK:42:ASP:N	2.35	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:CL:149:VAL:O	12:CL:153:ARG:HB2	2.19	0.42
17:CQ:56:ASP:O	17:CQ:59:ARG:HG2	2.20	0.42
22:CV:9:SER:OG	22:CV:10:ARG:HG3	2.20	0.42
23:CW:92:TRP:O	23:CW:107:PHE:O	2.38	0.42
25:A:386:G:C6	25:A:387:A:N6	2.87	0.42
25:A:788:A:H3'	53:F:108:ARG:NH2	2.34	0.42
25:A:1175:U:H2'	25:A:1176:G:H8	1.83	0.42
49:B:125:ASP:HA	49:B:126:PRO:HD2	1.92	0.42
49:B:168:HIS:HB3	49:B:203:PHE:CE1	2.55	0.42
50:C:128:LYS:HA	50:C:133:TYR:O	2.20	0.42
51:D:57:PHE:CZ	51:D:138:PRO:HD3	2.55	0.42
58:K:13:SER:HB2	58:K:47:PHE:CD1	2.55	0.42
60:M:57:LYS:HD3	60:M:131:ILE:HG23	2.01	0.42
62:O:115:LEU:HD23	62:O:115:LEU:HA	1.91	0.42
65:R:25:GLY:HA3	65:R:64:ASP:CG	2.45	0.42
68:U:105:LEU:HD13	68:U:122:ARG:HD3	2.02	0.42
72:Y:43:PHE:CE1	72:Y:49:ALA:HB3	2.55	0.42
78:e:7:TRP:CD1	78:e:7:TRP:O	2.73	0.42
81:h:16:HIS:NE2	81:h:43:ILE:HG12	2.35	0.42
81:h:40:LYS:HA	81:h:68:VAL:HG23	2.01	0.42
81:h:198:ASN:O	81:h:215:GLY:HA3	2.19	0.42
50:s1:27:LYS:H	50:s1:27:LYS:HG2	1.67	0.42
52:s3:22:ASN:OD1	52:s3:34:TYR:OH	2.31	0.42
55:s6:38:GLY:HA3	55:s6:50:PHE:HE2	1.85	0.42
56:s7:77:LEU:HD22	56:s7:81:LEU:HD11	2.02	0.42
57:s8:171:SER:OG	57:s8:178:ARG:O	2.33	0.42
82:c7:53:TYR:CE1	82:c7:56:HIS:HD2	2.38	0.42
71:d2:23:ARG:NH1	71:d2:66:ASN:HA	2.35	0.42
71:d2:27:ILE:HB	71:d2:61:ILE:HB	2.02	0.42
71:d2:126:LEU:HD23	71:d2:126:LEU:HA	1.73	0.42
73:d4:90:ARG:O	73:d4:93:ARG:HB2	2.19	0.42
79:e0:53:LYS:HD3	79:e0:55:ARG:NE	2.33	0.42
81:sR:135:THR:HG23	81:sR:139:GLN:O	2.20	0.42
1:1:94:G:H2'	1:1:95:A:H8	1.83	0.41
1:1:1069:C:H2'	1:1:1070:U:C6	2.54	0.41
1:1:1497:C:H2'	1:1:1498:A:C8	2.55	0.41
1:1:1823:A:H2'	1:1:1824:U:C6	2.54	0.41
1:1:1857:C:C4	1:1:1858:A:C6	3.07	0.41
1:1:2331:C:H2'	1:1:2332:A:C8	2.55	0.41
1:1:2380:U:C2	1:1:2381:G:C8	3.07	0.41
1:1:2585:G:O6	10:p:47:SER:OG	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2648:G:HO2'	1:1:2696:A:HO2'	1.68	0.41
1:1:2802:A:C8	44:AP:56:PRO:HA	2.55	0.41
1:1:3060:C:H2'	1:1:3061:G:C8	2.55	0.41
1:1:3160:U:H5''	1:1:3396:U:H2'	2.01	0.41
1:1:3298:C:N4	1:1:3299:A:C6	2.88	0.41
5:k:115:LYS:HA	5:k:118:PHE:HD2	1.83	0.41
6:l:136:LEU:HD22	6:l:136:LEU:HA	1.86	0.41
6:l:156:LEU:HD23	6:l:159:ILE:HD12	2.01	0.41
8:n:158:TYR:OH	15:u:114:ASP:OD2	2.30	0.41
9:o:176:TYR:CZ	9:o:197:GLN:HG2	2.55	0.41
11:q:146:LEU:HB2	11:q:154:VAL:HG13	2.01	0.41
12:r:100:ASN:OD1	84:r:301:OHX:N4	2.53	0.41
14:t:60:ALA:HB3	14:t:65:TYR:O	2.20	0.41
15:u:15:VAL:HG13	21:0:150:PHE:O	2.20	0.41
16:v:153:ASP:CG	16:v:154:PRO:HD2	2.45	0.41
21:0:89:ASN:HD21	22:2:156:TYR:HB3	1.84	0.41
25:6:149:C:H2'	25:6:150:U:C6	2.53	0.41
25:6:683:C:H3'	25:6:684:A:H5''	2.01	0.41
25:6:838:G:O6	84:6:1956:OHX:N5	2.53	0.41
25:6:1208:A:N1	25:6:1455:G:N2	2.60	0.41
43:AO:6:ARG:HH22	25:A:1113:A:H5''	1.85	0.41
46:i:88:ARG:HG2	46:i:91:THR:CG2	2.50	0.41
1:AR:268:A:O4'	1:AR:270:U:H1'	2.20	0.41
1:AR:329:U:H4'	1:AR:330:G:OP2	2.19	0.41
1:AR:929:A:H2'	1:AR:930:U:H6	1.84	0.41
1:AR:1369:A:H4'	30:DC:21:ARG:HG3	2.02	0.41
1:AR:1504:A:C5	1:AR:1505:C:C5	3.08	0.41
1:AR:1914:G:O2'	20:CT:82:LYS:O	2.34	0.41
1:AR:2186:U:OP2	4:CD:200:ARG:HD2	2.19	0.41
1:AR:2585:G:O6	10:CJ:47:SER:OG	2.38	0.41
1:AR:2616:C:H42	1:AR:2624:G:H1	1.68	0.41
1:AR:3363:U:H2'	1:AR:3364:C:C6	2.54	0.41
1:AR:3380:U:H2'	1:AR:3381:U:C6	2.55	0.41
84:AR:3607:OHX:N1	5:CE:30:LYS:O	2.53	0.41
4:CD:136:ILE:H	4:CD:136:ILE:HD12	1.85	0.41
5:CE:21:ARG:HG2	5:CE:269:GLN:HG2	2.01	0.41
5:CE:63:PRO:HA	5:CE:68:HIS:CD2	2.55	0.41
7:CG:16:PHE:O	22:CV:20:ARG:HD2	2.19	0.41
9:CI:147:LEU:HD23	9:CI:147:LEU:HA	1.56	0.41
14:CN:91:ARG:NH2	14:CN:97:VAL:HB	2.35	0.41
18:CR:67:ILE:HG13	18:CR:82:ARG:NE	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:CS:8:LYS:HE3	19:CS:8:LYS:HB2	1.70	0.41
20:CT:130:ASN:O	20:CT:132:PHE:N	2.51	0.41
21:CU:10:ILE:HG12	21:CU:26:ARG:HB2	2.01	0.41
26:CY:45:ASN:OD1	26:CY:47:ARG:HB2	2.20	0.41
28:DA:37:LYS:H	28:DA:37:LYS:CD	2.33	0.41
32:DE:24:THR:HG22	32:DE:91:SER:HB3	2.01	0.41
34:DG:82:LEU:HD22	34:DG:117:ILE:HD13	2.02	0.41
47:p0:12:PHE:CE1	47:p0:62:ALA:HB2	2.55	0.41
25:A:46:A:N3	25:A:48:G:H1'	2.35	0.41
25:A:541:A:O2'	25:A:542:A:H4'	2.20	0.41
25:A:679:U:H2'	25:A:680:U:C6	2.54	0.41
25:A:871:G:O2'	76:c:66:PRO:HB2	2.20	0.41
25:A:1204:A:N3	78:e:10:HIS:NE2	2.64	0.41
25:A:1410:A:H2'	25:A:1411:A:O4'	2.20	0.41
25:A:1609:U:H2'	25:A:1610:G:O4'	2.20	0.41
50:C:214:LYS:HB2	50:C:214:LYS:HE3	1.83	0.41
52:E:10:LYS:HB2	52:E:10:LYS:HE3	1.88	0.41
52:E:104:SER:O	52:E:107:PHE:N	2.53	0.41
54:G:128:ASN:HB2	54:G:131:GLN:HB3	2.02	0.41
62:O:89:TYR:CZ	62:O:150:VAL:HG13	2.55	0.41
74:a:54:VAL:N	74:a:55:PRO:HD2	2.35	0.41
75:b:5:ARG:HD2	75:b:8:ASN:O	2.20	0.41
50:s1:33:LYS:HE2	50:s1:41:ARG:NH1	2.30	0.41
51:s2:139:ILE:CD1	51:s2:191:ALA:HB1	2.51	0.41
53:s4:142:HIS:CD2	53:s4:226:PHE:HE2	2.38	0.41
58:s9:142:ASN:OD1	58:s9:142:ASN:N	2.52	0.41
59:c0:12:HIS:NE2	59:c0:49:LEU:HD21	2.34	0.41
59:c0:29:GLN:HB3	59:c0:39:ASN:CB	2.48	0.41
59:c0:61:TRP:O	59:c0:63:TYR:HD1	2.03	0.41
61:c2:61:VAL:HG13	61:c2:121:VAL:HG23	2.02	0.41
81:sR:13:LEU:O	81:sR:309:VAL:HG13	2.20	0.41
1:1:72:C:C2	1:1:74:G:H1'	2.55	0.41
1:1:126:U:H2'	1:1:127:G:O4'	2.20	0.41
1:1:952:A:N3	1:1:1114:U:O2'	2.44	0.41
1:1:999:G:C6	1:1:1000:C:N4	2.88	0.41
1:1:1213:G:O2'	21:0:90:MET:HG2	2.20	0.41
1:1:1471:U:H2'	1:1:1472:U:C6	2.55	0.41
1:1:1561:G:O6	1:1:1579:C:N4	2.53	0.41
1:1:2097:U:H2'	1:1:2098:C:C6	2.55	0.41
1:1:2421:U:H2'	1:1:2422:C:O4'	2.20	0.41
1:1:2952:G:H2'	1:1:2953:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2986:U:H2'	1:1:2987:A:H8	1.84	0.41
1:1:3230:G:H2'	1:1:3231:U:O4'	2.20	0.41
3:4:18:U:OP1	84:4:206:OHX:N1	2.53	0.41
6:l:22:LEU:HA	6:l:23:PRO:HD3	1.88	0.41
7:m:160:PHE:CD2	7:m:179:ARG:HB3	2.55	0.41
9:o:105:LEU:HA	9:o:105:LEU:HD23	1.74	0.41
13:s:173:ASP:HB3	13:s:174:LYS:H	1.65	0.41
20:z:181:ARG:O	20:z:185:LEU:HG	2.20	0.41
22:2:39:ILE:HD12	22:2:102:ARG:HD3	2.02	0.41
25:6:116:U:H1'	25:6:334:G:N3	2.36	0.41
25:6:206:A:H1'	25:6:262:U:O2	2.19	0.41
25:6:223:U:H2'	25:6:224:C:C6	2.55	0.41
25:6:454:U:N1	53:s4:66:MET:HG3	2.35	0.41
25:6:489:C:O2'	25:6:490:C:O5'	2.39	0.41
25:6:768:C:H1'	58:s9:143:ILE:HG21	2.02	0.41
25:6:1531:G:N2	68:c9:48:GLN:OE1	2.44	0.41
25:6:1653:C:C2	25:6:1748:G:C2	3.08	0.41
25:6:1738:U:H2'	25:6:1739:C:C6	2.55	0.41
27:8:108:LEU:HD12	27:8:125:ARG:HD2	2.02	0.41
38:AJ:34:SER:HG	38:AJ:37:THR:HG1	1.66	0.41
42:AN:85:LEU:O	42:AN:88:LYS:HB3	2.20	0.41
1:AR:43:A:N1	1:AR:2420:C:O2'	2.52	0.41
1:AR:160:G:H1	1:AR:261:U:H3	1.67	0.41
1:AR:501:A:H4'	8:CH:28:GLN:HE21	1.84	0.41
1:AR:595:G:N1	1:AR:609:G:H5''	2.35	0.41
1:AR:945:C:H2'	1:AR:946:U:O4'	2.20	0.41
1:AR:1667:A:H2'	1:AR:1668:G:C8	2.55	0.41
1:AR:1770:G:H5'	1:AR:1771:C:OP2	2.20	0.41
1:AR:2131:A:N6	45:DR:18:TYR:HA	2.35	0.41
1:AR:2215:A:H2'	1:AR:2216:G:O4'	2.19	0.41
1:AR:2405:C:O2	1:AR:2819:A:N1	2.53	0.41
1:AR:2611:U:H2'	1:AR:2612:U:C6	2.55	0.41
1:AR:2631:U:P	22:CV:6:GLY:HA3	2.60	0.41
1:AR:2697:A:H2'	1:AR:2698:G:C8	2.55	0.41
1:AR:2698:G:O2'	22:CV:12:ARG:HG3	2.20	0.41
1:AR:2943:G:H2'	1:AR:2944:U:O4'	2.20	0.41
1:AR:3095:U:H2'	1:AR:3096:C:C6	2.54	0.41
1:AR:3268:A:H3'	1:AR:3269:U:H3'	2.01	0.41
84:AR:3671:OHX:N2	5:CE:367:LYS:HE2	2.35	0.41
2:AS:49:G:H4'	2:AS:50:U:O5'	2.20	0.41
5:CE:17:LEU:HD11	5:CE:233:TRP:HH2	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:CE:58:ARG:HH12	5:CE:352:GLU:CD	2.28	0.41
5:CE:92:TYR:O	5:CE:155:ALA:HA	2.20	0.41
6:CF:23:PRO:HD2	6:CF:26:PHE:CD2	2.55	0.41
7:CG:109:THR:O	7:CG:113:LEU:HB2	2.21	0.41
29:DB:80:LEU:HD23	29:DB:80:LEU:HA	1.69	0.41
34:DG:32:TRP:CZ2	34:DG:53:PRO:HD2	2.56	0.41
44:DQ:47:GLN:HE22	44:DQ:54:THR:H	1.67	0.41
25:A:751:G:H2'	25:A:752:A:C8	2.55	0.41
25:A:897:C:N4	25:A:914:G:C8	2.88	0.41
25:A:976:G:O6	84:A:1928:OHX:N3	2.54	0.41
25:A:1073:G:H2'	25:A:1074:G:H5''	2.02	0.41
25:A:1366:U:O2'	68:U:7:ARG:HD2	2.20	0.41
25:A:1489:U:O5'	52:E:9:ARG:NH2	2.53	0.41
25:A:1600:A:HO2'	25:A:1602:C:N4	2.18	0.41
25:A:1795:U:O2	75:b:10:ARG:HD2	2.19	0.41
84:A:1909:OHX:N4	84:A:2024:OHX:N1	2.68	0.41
49:B:185:ARG:H	70:W:44:ARG:HA	1.85	0.41
53:F:22:LYS:HB2	53:F:23:LEU:HD22	2.02	0.41
53:F:160:VAL:HG13	53:F:169:ILE:HG23	2.02	0.41
57:J:89:GLU:O	57:J:93:THR:OG1	2.34	0.41
63:P:50:ALA:C	63:P:52:ARG:H	2.29	0.41
74:a:61:SER:N	74:a:64:VAL:HB	2.32	0.41
49:s0:69:ASN:HB3	49:s0:71:GLU:OE1	2.19	0.41
49:s0:139:VAL:O	49:s0:139:VAL:HG22	2.19	0.41
52:s3:106:LYS:O	52:s3:110:LEU:HG	2.20	0.41
53:s4:95:THR:O	53:s4:95:THR:OG1	2.36	0.41
54:s5:63:GLN:HG3	54:s5:86:GLN:O	2.19	0.41
58:s9:105:LEU:HD12	58:s9:105:LEU:HA	1.83	0.41
65:c6:25:GLY:HA3	65:c6:64:ASP:CG	2.45	0.41
77:d8:44:VAL:HG11	77:d8:48:VAL:HG11	2.01	0.41
81:sR:161:LYS:C	81:sR:163:ASP:N	2.78	0.41
81:sR:161:LYS:HE3	81:sR:161:LYS:HB3	1.62	0.41
1:1:269:G:O6	84:1:3617:OHX:N5	2.53	0.41
1:1:281:G:C6	1:1:282:G:C6	3.08	0.41
1:1:412:G:C6	1:1:413:U:C4	3.08	0.41
1:1:595:G:C6	1:1:609:G:H5''	2.55	0.41
1:1:602:A:H2'	1:1:603:A:C8	2.55	0.41
1:1:642:U:OP1	30:AB:22:ILE:HG23	2.21	0.41
1:1:655:C:H5''	34:AF:26:HIS:HB2	2.01	0.41
1:1:867:G:C6	1:1:868:C:C4	3.08	0.41
1:1:907:G:OP1	1:1:909:G:O2'	2.38	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:928:C:H2'	1:1:929:A:C8	2.55	0.41
1:1:1372:C:OP2	30:AB:7:LYS:HE2	2.20	0.41
1:1:1394:A:H4'	1:1:1420:C:H4'	2.02	0.41
1:1:1569:U:H5''	1:1:1570:U:H6	1.85	0.41
1:1:1915:A:H5'	20:z:82:LYS:O	2.20	0.41
1:1:2249:G:H2'	1:1:2250:G:O4'	2.19	0.41
1:1:2353:G:C5	1:1:2354:C:C5	3.08	0.41
1:1:2585:G:H2'	1:1:2585:G:N3	2.36	0.41
1:1:2623:G:C4	1:1:2624:G:C8	3.07	0.41
1:1:2659:G:C2	1:1:2712:U:O2	2.73	0.41
1:1:2707:C:H2'	1:1:2708:C:C6	2.55	0.41
1:1:3049:A:C2	5:k:75:ALA:HB2	2.55	0.41
2:3:26:C:C5'	7:m:56:THR:HB	2.50	0.41
3:4:124:G:H1	3:4:129:C:N4	2.12	0.41
5:k:72:VAL:HG12	24:l2:88:ARG:HB3	2.02	0.41
5:k:187:SER:O	5:k:189:SER:N	2.52	0.41
6:l:258:LEU:HD12	6:l:258:LEU:HA	1.86	0.41
7:m:200:PHE:O	7:m:240:TYR:HD2	2.03	0.41
10:p:71:VAL:HB	16:v:21:PHE:CE2	2.54	0.41
20:z:85:ARG:HA	20:z:88:ARG:HD3	2.03	0.41
21:0:45:LEU:HD22	21:0:45:LEU:HA	1.77	0.41
22:2:147:VAL:HA	22:2:148:PRO:HD3	1.89	0.41
24:l2:40:LYS:HG3	24:l2:57:MET:HG2	2.02	0.41
25:6:37:U:O2'	25:6:770:A:N1	2.40	0.41
25:6:290:G:O6	84:6:2028:OHX:N5	2.53	0.41
25:6:609:U:H5	72:d3:22:ASN:O	2.03	0.41
25:6:686:C:H4'	71:d2:118:ARG:HD2	2.02	0.41
25:6:770:A:O2'	58:s9:8:TYR:HB2	2.19	0.41
25:6:1259:U:H2'	25:6:1260:U:C6	2.55	0.41
25:6:1558:U:O2'	25:6:1559:A:OP1	2.36	0.41
25:6:1584:G:O2'	25:6:1610:G:O6	2.34	0.41
26:7:4:GLU:O	26:7:13:ILE:N	2.40	0.41
40:AL:64:LYS:N	40:AL:64:LYS:HD2	2.35	0.41
1:AR:550:A:N1	1:AR:551:A:N6	2.68	0.41
1:AR:1601:U:O2	1:AR:1603:A:H8	2.04	0.41
1:AR:1902:G:C6	1:AR:1903:U:C2	3.08	0.41
1:AR:2164:A:H5'	4:CD:8:GLN:O	2.21	0.41
1:AR:2263:C:H6	1:AR:2263:C:H2'	1.44	0.41
1:AR:2392:C:O2'	5:CE:266:ARG:NH2	2.34	0.41
1:AR:2407:C:H1'	1:AR:2818:U:C2	2.55	0.41
1:AR:3047:U:O2'	5:CE:53:MET:HE1	2.19	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:3170:A:C6	1:AR:3171:U:C4	3.09	0.41
1:AR:3358:U:H2'	1:AR:3359:A:O4'	2.20	0.41
2:AS:48:U:O2	2:AS:50:U:C4	2.73	0.41
4:CD:52:SER:HB3	4:CD:191:LEU:CD2	2.50	0.41
13:CM:95:ASN:HB3	13:CM:103:GLY:O	2.19	0.41
14:CN:70:ARG:HD2	14:CN:71:ALA:O	2.19	0.41
14:CN:166:ALA:O	14:CN:169:THR:N	2.54	0.41
19:CS:120:GLU:OE2	19:CS:122:ILE:HD11	2.20	0.41
22:CV:90:ASN:O	22:CV:91:LEU:HD23	2.20	0.41
31:DD:58:LYS:HA	31:DD:58:LYS:HD2	1.86	0.41
35:DH:13:HIS:NE2	35:DH:28:SER:OG	2.36	0.41
25:A:812:A:N6	25:A:858:G:H2'	2.36	0.41
25:A:862:A:H3'	62:O:16:ILE:HD12	2.01	0.41
25:A:917:U:OP2	84:A:2025:OHX:N3	2.53	0.41
25:A:1140:G:N7	84:A:1943:OHX:N1	2.68	0.41
25:A:1380:U:H2'	25:A:1381:U:O4'	2.19	0.41
25:A:1542:G:H22	25:A:1568:C:H1'	1.86	0.41
25:A:1559:A:H3'	25:A:1559:A:N3	2.35	0.41
25:A:1590:G:OP1	68:U:91:TYR:HB2	2.20	0.41
25:A:1695:G:H21	25:A:1706:C:H41	1.68	0.41
57:J:152:ILE:HB	57:J:153:GLU:H	1.54	0.41
61:N:63:VAL:HG11	61:N:94:ALA:CA	2.50	0.41
61:N:136:ILE:HA	61:N:139:HIS:HB3	2.03	0.41
63:P:24:ASN:O	63:P:25:ASP:HB2	2.20	0.41
65:R:99:GLU:HB2	81:h:58:VAL:O	2.20	0.41
66:S:24:LEU:HB3	66:S:58:MET:HE3	2.01	0.41
66:S:32:LYS:HG3	66:S:47:ARG:HD3	2.02	0.41
69:V:106:ILE:O	69:V:107:THR:OG1	2.30	0.41
71:X:29:PRO:HB2	71:X:58:SER:CB	2.50	0.41
72:Y:91:GLY:C	72:Y:93:LEU:H	2.27	0.41
72:Y:93:LEU:HD12	72:Y:96:VAL:HG21	2.02	0.41
50:s1:193:ILE:H	50:s1:193:ILE:HG12	1.47	0.41
62:c3:91:LEU:HD23	62:c3:91:LEU:HA	1.93	0.41
63:c4:11:SER:OG	63:c4:12:GLN:N	2.37	0.41
75:d6:87:ARG:NH2	75:d6:91:ASP:O	2.31	0.41
76:d7:49:HIS:HA	76:d7:71:ALA:H	1.84	0.41
1:1:239:G:O2'	1:1:240:U:OP1	2.31	0.41
1:1:1078:U:O4	84:1:3504:OHX:N2	2.54	0.41
1:1:1478:C:H2'	1:1:1479:U:C6	2.55	0.41
1:1:1569:U:H5''	1:1:1570:U:C6	2.55	0.41
1:1:1636:U:H4'	29:AA:74:VAL:O	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:1686:U:C2	1:1:3069:G:N2	2.88	0.41
1:1:1809:A:H2'	1:1:1810:A:O4'	2.20	0.41
1:1:3328:G:C2	1:1:3379:C:C2	3.08	0.41
3:4:103:G:OP2	3:4:105:A:O2'	2.31	0.41
5:k:292:ALA:HA	5:k:303:LYS:H	1.85	0.41
6:l:136:LEU:HD23	6:l:142:VAL:HG22	2.01	0.41
7:m:269:SER:O	7:m:272:TYR:N	2.51	0.41
9:o:161:VAL:HA	9:o:162:PRO:HD2	1.87	0.41
10:p:172:LYS:HE3	38:AJ:39:PHE:CE1	2.55	0.41
11:q:106:LYS:O	11:q:109:ALA:HB2	2.20	0.41
14:t:32:LYS:O	14:t:36:ARG:HG3	2.20	0.41
14:t:172:LEU:HD23	14:t:172:LEU:HA	1.88	0.41
22:2:27:LEU:HD22	22:2:27:LEU:HA	1.83	0.41
22:2:57:TYR:CG	22:2:89:LEU:HD21	2.55	0.41
23:5:39:ASP:O	23:5:47:VAL:HB	2.20	0.41
24:l:79:VAL:HG13	24:l:100:GLY:HA2	2.03	0.41
24:l:120:LYS:H	24:l:137:VAL:CG2	2.32	0.41
25:6:95:G:OP1	53:s4:6:LYS:HD3	2.21	0.41
25:6:416:A:H4'	25:6:417:A:OP2	2.21	0.41
25:6:822:U:C2'	25:6:823:G:H5''	2.46	0.41
25:6:1063:U:H2'	25:6:1064:G:H8	1.84	0.41
25:6:1097:U:O3'	51:s2:159:THR:HG21	2.21	0.41
25:6:1213:G:H1	25:6:1450:U:H3	1.66	0.41
25:6:1258:U:C5	25:6:1259:U:C4	3.07	0.41
29:AA:23:VAL:HB	29:AA:43:VAL:HB	2.01	0.41
29:AA:76:ASN:OD1	29:AA:77:TYR:N	2.52	0.41
40:AL:56:ILE:HG22	40:AL:58:ASP:H	1.85	0.41
1:AR:147:U:C4	10:CJ:157:VAL:HA	2.55	0.41
1:AR:260:C:H2'	1:AR:261:U:C6	2.55	0.41
1:AR:286:U:H2'	1:AR:287:G:C8	2.55	0.41
1:AR:687:U:OP2	14:CN:36:ARG:NH2	2.53	0.41
1:AR:993:G:N3	1:AR:2637:A:H2'	2.35	0.41
1:AR:1047:A:C6	1:AR:1048:A:C6	3.08	0.41
1:AR:1089:G:N7	84:AR:3689:OHX:N3	2.69	0.41
1:AR:1433:A:N3	34:DG:27:ARG:NH1	2.68	0.41
1:AR:1636:U:H5''	29:DB:73:LYS:NZ	2.35	0.41
1:AR:2172:A:H4'	4:CD:17:THR:HG22	2.02	0.41
1:AR:2656:A:O2'	1:AR:2657:A:H3'	2.20	0.41
1:AR:3045:G:H2'	1:AR:3046:A:O4'	2.21	0.41
1:AR:3206:C:O2	21:CU:155:ARG:NH1	2.53	0.41
3:AT:102:U:O4	84:AT:205:OHX:N2	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:CD:202:VAL:HG13	4:CD:217:GLN:HG2	2.02	0.41
5:CE:257:PRO:HG2	5:CE:261:MET:CE	2.50	0.41
6:CF:184:SER:HB2	6:CF:202:ARG:HG2	2.01	0.41
7:CG:107:ARG:O	7:CG:111:GLN:HB2	2.19	0.41
18:CR:52:LEU:HD12	18:CR:52:LEU:HA	1.75	0.41
27:CZ:57:LEU:HA	27:CZ:57:LEU:HD12	1.77	0.41
29:DB:102:GLU:H	29:DB:107:ARG:HH21	1.67	0.41
30:DC:82:ILE:HA	30:DC:83:PRO:HD3	1.95	0.41
43:DP:16:LYS:O	43:DP:20:VAL:HG23	2.21	0.41
47:p0:93:LEU:HD12	47:p0:94:THR:H	1.86	0.41
25:A:14:C:H2'	25:A:15:U:C6	2.56	0.41
25:A:280:U:HO2'	25:A:281:G:P	2.39	0.41
25:A:389:G:C6	25:A:390:G:C5	3.09	0.41
25:A:497:G:O2'	25:A:498:G:N7	2.54	0.41
25:A:777:C:H5	73:Z:10:ARG:HH12	1.67	0.41
25:A:823:G:O2'	25:A:824:G:O5'	2.39	0.41
25:A:1014:G:H2'	25:A:1015:U:O4'	2.19	0.41
50:C:157:GLN:HB2	50:C:160:HIS:CD2	2.56	0.41
52:E:218:LEU:HD23	52:E:218:LEU:HA	1.94	0.41
56:I:32:PRO:C	56:I:34:LEU:N	2.77	0.41
65:R:35:PRO:HG2	65:R:38:LEU:HG	2.01	0.41
67:T:81:ILE:HA	67:T:82:PRO:HD3	1.85	0.41
81:h:41:THR:HG22	81:h:62:LYS:HG2	2.02	0.41
52:s3:64:ARG:HG2	52:s3:65:ARG:N	2.35	0.41
53:s4:238:LEU:HA	53:s4:239:PRO:HD3	1.94	0.41
57:s8:180:ASP:OD1	57:s8:180:ASP:N	2.53	0.41
63:c4:136:ARG:H	63:c4:136:ARG:HG2	1.66	0.41
67:c8:28:ILE:H	67:c8:28:ILE:HG13	1.57	0.41
67:c8:87:ASN:HD21	67:c8:100:THR:CG2	2.32	0.41
69:d0:63:LEU:HB3	78:d9:34:TYR:CE2	2.55	0.41
75:d6:81:ALA:HB3	75:d6:83:ILE:HG12	2.02	0.41
79:e0:56:MET:HB2	79:e0:56:MET:HE2	1.77	0.41
83:e1:118:ARG:HB3	83:e1:119:ARG:H	1.57	0.41
81:sR:21:THR:O	81:sR:291:SER:HB3	2.20	0.41
1:1:207:U:H2'	1:1:208:C:H6	1.86	0.41
1:1:359:U:H4'	1:1:817:A:N6	2.35	0.41
1:1:656:A:H2'	1:1:657:A:C8	2.56	0.41
1:1:1095:U:H4'	1:1:1096:U:H5''	2.01	0.41
1:1:1313:G:H2'	1:1:1314:C:C6	2.54	0.41
1:1:1754:G:O6	84:1:3585:OHX:N4	2.53	0.41
1:1:2173:U:H2'	1:1:2174:G:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:l:3066:U:O4	84:l:3668:OHX:N6	2.53	0.41
2:3:106:U:H2'	2:3:107:C:H6	1.85	0.41
3:4:124:G:N2	3:4:129:C:N3	2.55	0.41
5:k:334:ARG:O	5:k:336:VAL:HG23	2.20	0.41
7:m:267:ALA:O	7:m:271:LYS:HG3	2.20	0.41
9:o:83:LEU:HD11	9:o:116:PHE:CD1	2.55	0.41
10:p:75:ILE:HG22	10:p:76:ALA:N	2.35	0.41
14:t:144:THR:HG21	37:AI:118:ILE:HG21	2.02	0.41
19:y:89:ASP:OD1	19:y:90:ASP:N	2.53	0.41
19:y:152:HIS:CD2	19:y:152:HIS:H	2.39	0.41
20:z:6:THR:O	20:z:10:LEU:HB2	2.21	0.41
25:6:214:G:N7	84:6:2008:OHX:N4	2.69	0.41
25:6:366:A:OP1	25:6:758:U:O2'	2.29	0.41
25:6:381:C:OP1	53:s4:10:LYS:HD3	2.21	0.41
25:6:879:G:C2	25:6:950:C:C2	3.08	0.41
25:6:922:G:H4'	4:CD:109:GLU:HG3	2.02	0.41
30:AB:8:THR:HG23	30:AB:8:THR:H	1.63	0.41
1:AR:198:A:C6	1:AR:219:A:C6	3.09	0.41
1:AR:300:G:N7	84:AR:3690:OHX:N1	2.69	0.41
1:AR:595:G:H1	1:AR:609:G:H5''	1.86	0.41
1:AR:616:G:H2'	1:AR:617:G:C8	2.55	0.41
1:AR:2202:C:H5''	4:CD:226:SER:N	2.36	0.41
1:AR:2244:A:OP1	4:CD:243:THR:OG1	2.38	0.41
1:AR:2802:A:C8	44:DQ:56:PRO:HA	2.55	0.41
10:CJ:71:VAL:HA	10:CJ:72:PRO:HD2	1.69	0.41
10:CJ:122:LYS:C	10:CJ:124:ASP:H	2.27	0.41
11:CK:12:VAL:HA	11:CK:13:PRO:HD2	1.90	0.41
11:CK:36:LYS:HE3	11:CK:74:LEU:HD22	2.01	0.41
20:CT:17:VAL:HG12	20:CT:21:LYS:HB2	2.01	0.41
24:CX:74:MET:HE3	24:CX:102:ILE:HD13	2.01	0.41
31:DD:14:ARG:NH1	31:DD:18:ARG:HD3	2.35	0.41
33:DF:29:ALA:HB3	33:DF:30:PRO:HD3	2.02	0.41
37:DJ:30:GLU:O	37:DJ:34:GLN:HG3	2.20	0.41
40:DM:41:THR:HG21	40:DM:62:ALA:HB1	2.02	0.41
42:DO:79:GLU:HA	42:DO:80:PRO:HD3	1.77	0.41
45:DR:34:HIS:CD2	45:DR:34:HIS:N	2.89	0.41
47:p0:69:ASP:OD1	47:p0:69:ASP:N	2.40	0.41
25:A:150:U:OP1	73:Z:123:LYS:NZ	2.36	0.41
25:A:320:U:H3'	25:A:321:C:C5'	2.49	0.41
25:A:331:A:H5'	57:J:33:PRO:HA	2.02	0.41
25:A:954:G:H2'	25:A:955:A:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1504:G:OP1	68:U:97:SER:HB2	2.20	0.41
25:A:1590:G:H2'	25:A:1591:C:C6	2.55	0.41
49:B:67:ILE:HA	49:B:68:PRO:HD3	1.83	0.41
50:C:149:GLN:HE21	50:C:151:LYS:HG2	1.85	0.41
50:C:196:GLU:HA	50:C:199:ASN:OD1	2.20	0.41
51:D:104:VAL:HG22	51:D:132:ALA:HB1	2.03	0.41
52:E:84:ILE:HD13	52:E:85:VAL:H	1.86	0.41
53:F:126:VAL:HA	53:F:141:THR:HA	2.02	0.41
54:G:94:THR:O	54:G:97:LEU:HB2	2.20	0.41
56:I:177:THR:OG1	56:I:178:GLY:N	2.54	0.41
58:K:112:GLN:HG3	58:K:148:VAL:HB	2.03	0.41
67:T:6:GLN:O	74:a:42:LEU:HD13	2.21	0.41
74:a:85:LYS:HG3	74:a:86:GLU:H	1.85	0.41
81:h:38:ARG:HG2	81:h:67:ILE:CG2	2.49	0.41
53:s4:136:VAL:HG11	53:s4:148:ARG:NH2	2.36	0.41
82:c7:106:THR:O	82:c7:109:LEU:HB3	2.21	0.41
1:1:88:A:N1	1:1:281:G:H1'	2.34	0.41
1:1:160:G:N2	1:1:262:U:H1'	2.36	0.41
1:1:812:G:O6	84:1:3522:OHX:N1	2.54	0.41
1:1:1246:G:H8	1:1:1246:G:OP1	2.03	0.41
1:1:1564:U:H2'	1:1:1565:G:C8	2.55	0.41
1:1:1596:C:O2'	1:1:1696:A:N3	2.50	0.41
1:1:1750:A:H4'	1:1:1751:G:H5'	2.01	0.41
1:1:2321:A:H2'	1:1:2322:C:O4'	2.21	0.41
1:1:2358:A:H2'	1:1:2359:C:O4'	2.21	0.41
1:1:3072:C:H2'	1:1:3073:A:O4'	2.20	0.41
1:1:3159:C:H2'	1:1:3160:U:C6	2.55	0.41
1:1:3308:C:O2	18:x:69:ARG:HB2	2.20	0.41
3:4:45:C:H2'	3:4:46:G:O4'	2.20	0.41
6:l:89:ALA:C	6:l:91:GLY:N	2.78	0.41
7:m:208:MET:HG2	7:m:223:PHE:CE1	2.56	0.41
10:p:82:LEU:HD12	10:p:82:LEU:HA	1.92	0.41
10:p:249:ARG:O	10:p:253:SER:HB2	2.20	0.41
16:v:135:VAL:HG13	16:v:142:ILE:HG12	2.02	0.41
18:x:13:LYS:HD2	18:x:152:GLU:OE1	2.21	0.41
25:6:49:C:H2'	25:6:50:C:O4'	2.20	0.41
25:6:219:A:OP1	25:6:219:A:H4'	2.20	0.41
25:6:222:A:H62	25:6:833:U:H3	1.68	0.41
25:6:309:C:H2'	25:6:310:C:C6	2.55	0.41
25:6:407:A:H2'	25:6:408:C:H6	1.84	0.41
25:6:616:G:C2	25:6:622:A:N7	2.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:869:A:H2'	25:6:870:C:O4'	2.21	0.41
25:6:1049:U:OP1	76:d7:69:GLY:HA3	2.20	0.41
25:6:1200:G:H4'	25:6:1201:G:C5'	2.50	0.41
25:6:1240:U:O4	84:6:1952:OHX:N5	2.53	0.41
25:6:1742:U:OP1	72:d3:39:LYS:HE2	2.21	0.41
29:AA:4:PHE:HE1	29:AA:82:PRO:HG3	1.86	0.41
36:AH:57:LEU:HG	36:AH:62:TYR:HE1	1.85	0.41
41:AM:23:LEU:HD22	41:AM:23:LEU:HA	1.91	0.41
1:AR:1364:C:O2'	1:AR:1365:G:H5'	2.20	0.41
1:AR:1382:G:OP2	6:CF:188:ARG:NH1	2.52	0.41
1:AR:1429:G:C6	6:CF:99:MET:HE1	2.56	0.41
1:AR:1691:U:H2'	1:AR:1692:U:C6	2.55	0.41
1:AR:1881:A:N1	1:AR:2352:A:C6	2.88	0.41
1:AR:3232:G:H1	1:AR:3255:U:H3	1.69	0.41
1:AR:3305:A:O2'	1:AR:3306:U:H5'	2.21	0.41
1:AR:3375:A:H5''	1:AR:3378:C:H5	1.85	0.41
7:CG:146:LEU:HG	7:CG:163:LEU:HD23	2.02	0.41
8:CH:40:LEU:HB3	8:CH:84:VAL:HG13	2.02	0.41
9:CI:106:LEU:HD23	9:CI:106:LEU:HA	1.72	0.41
10:CJ:153:ILE:HG21	10:CJ:163:VAL:HG13	2.02	0.41
20:CT:130:ASN:HB3	20:CT:131:ALA:H	1.67	0.41
20:CT:165:LYS:HB2	20:CT:165:LYS:HE3	1.91	0.41
21:CU:14:LEU:HA	21:CU:14:LEU:HD23	1.69	0.41
22:CV:17:ARG:HB3	22:CV:22:HIS:NE2	2.36	0.41
22:CV:111:ALA:O	22:CV:115:LYS:HG3	2.21	0.41
39:DL:48:ASN:HA	39:DL:54:LYS:HE2	2.02	0.41
25:A:592:A:OP1	58:K:39:LYS:HG2	2.21	0.41
25:A:701:U:H3	25:A:737:A:N6	2.13	0.41
25:A:838:G:N7	84:A:1915:OHX:N6	2.68	0.41
25:A:952:A:O2'	62:O:114:ARG:HG3	2.20	0.41
25:A:1325:A:C2	25:A:1326:A:C5	3.08	0.41
25:A:1337:A:H5'	25:A:1338:C:OP2	2.21	0.41
25:A:1514:U:C5	52:E:4:LEU:HD12	2.56	0.41
25:A:1777:G:H2'	25:A:1778:G:H8	1.86	0.41
53:F:253:ASP:O	53:F:257:ALA:N	2.53	0.41
54:G:98:MET:HB2	54:G:105:GLY:O	2.21	0.41
55:H:210:GLN:O	55:H:213:ALA:N	2.53	0.41
56:I:77:LEU:HD22	56:I:81:LEU:HD11	2.02	0.41
62:O:34:ILE:O	62:O:38:VAL:HG23	2.20	0.41
64:Q:96:ILE:HD13	64:Q:116:LEU:HB3	2.03	0.41
66:S:19:ARG:H	66:S:19:ARG:HG2	1.70	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
69:V:23:ARG:HD3	69:V:92:ASP:OD2	2.20	0.41
74:a:55:PRO:O	74:a:56:THR:OG1	2.31	0.41
75:b:79:ILE:CA	75:b:84:VAL:HG11	2.43	0.41
51:s2:237:VAL:O	51:s2:238:SER:HB3	2.21	0.41
52:s3:64:ARG:C	52:s3:66:ILE:H	2.29	0.41
54:s5:30:PRO:O	54:s5:33:VAL:HB	2.20	0.41
55:s6:49:VAL:HB	55:s6:115:LYS:HG3	2.02	0.41
62:c3:25:TRP:CD1	76:d7:82:LYS:HG2	2.55	0.41
82:c7:66:VAL:O	82:c7:69:ILE:HG13	2.21	0.41
67:c8:14:ILE:HG23	67:c8:14:ILE:O	2.21	0.41
67:c8:86:LEU:HG	67:c8:99:HIS:HB2	2.02	0.41
70:d1:38:LYS:HB2	70:d1:38:LYS:HE3	1.75	0.41
72:d3:87:VAL:HG22	72:d3:124:VAL:HG21	2.03	0.41
73:d4:8:ARG:NH1	73:d4:28:LEU:HD11	2.36	0.41
73:d4:29:HIS:O	73:d4:31:ASN:N	2.53	0.41
79:e0:39:LEU:HD12	79:e0:39:LEU:HA	1.88	0.41
81:sR:132:LYS:NZ	81:sR:143:THR:OG1	2.53	0.41
81:sR:143:THR:HG22	81:sR:145:LEU:HD23	2.02	0.41
1:1:677:A:H4'	1:1:678:G:O5'	2.20	0.41
1:1:1008:U:C4	1:1:1043:C:C4	3.08	0.41
1:1:1934:G:O6	84:1:3422:OHX:N2	2.54	0.41
1:1:2365:C:H5''	1:1:2986:U:H4'	2.03	0.41
1:1:2717:U:O2'	44:AP:13:LYS:HD3	2.21	0.41
4:j:97:ASN:HB2	4:j:100:ASN:ND2	2.36	0.41
6:l:5:GLN:HA	6:l:20:LEU:O	2.21	0.41
8:n:51:ARG:HD2	8:n:158:TYR:O	2.21	0.41
9:o:26:VAL:HG23	9:o:27:ALA:H	1.86	0.41
10:p:106:LYS:HE2	10:p:107:GLU:N	2.35	0.41
10:p:134:TYR:CD2	10:p:190:VAL:HG21	2.55	0.41
14:t:70:ARG:HG2	14:t:71:ALA:N	2.35	0.41
14:t:79:GLU:HG2	14:t:109:PHE:CD1	2.56	0.41
17:w:23:VAL:HG11	17:w:84:LEU:HD11	2.02	0.41
17:w:148:LYS:HB2	17:w:149:TYR:CE1	2.56	0.41
18:x:23:ARG:HE	18:x:125:GLN:HG3	1.85	0.41
19:y:54:LEU:HA	19:y:54:LEU:HD23	1.75	0.41
19:y:106:PHE:HB3	19:y:111:ARG:HB3	2.01	0.41
20:z:10:LEU:HD12	20:z:10:LEU:HA	1.91	0.41
20:z:171:ASP:OD1	20:z:171:ASP:N	2.54	0.41
25:6:492:A:O2'	25:6:496:G:N2	2.54	0.41
25:6:1291:G:N1	25:6:1305:U:O4	2.47	0.41
25:6:1365:C:H2'	25:6:1366:U:O4'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:1394:G:H2'	25:6:1395:G:H8	1.85	0.41
25:6:1619:C:H1'	77:d8:22:ARG:HH11	1.85	0.41
30:AB:82:ILE:HD11	30:AB:102:ILE:HD11	2.02	0.41
33:AE:55:LEU:O	33:AE:59:ILE:HG13	2.20	0.41
1:AR:274:G:O6	84:AR:3567:OHX:N5	2.53	0.41
1:AR:734:C:H2'	1:AR:735:A:O4'	2.20	0.41
1:AR:848:A:C5	1:AR:849:C:H1'	2.56	0.41
1:AR:912:G:H1'	1:AR:917:A:C2	2.56	0.41
1:AR:1103:A:H2'	1:AR:1103:A:N3	2.35	0.41
1:AR:1262:G:H5''	1:AR:1263:A:OP2	2.20	0.41
1:AR:1856:C:H2'	1:AR:1857:C:C6	2.56	0.41
1:AR:3003:G:HO2'	5:CE:92:TYR:HH	1.63	0.41
2:AS:100:C:P	21:CU:52:LYS:HZ2	2.44	0.41
4:CD:45:VAL:HA	4:CD:61:VAL:HA	2.03	0.41
5:CE:46:PHE:CE2	5:CE:81:THR:HG22	2.56	0.41
5:CE:51:ALA:HB3	5:CE:78:VAL:O	2.21	0.41
5:CE:56:ILE:HD11	5:CE:359:ILE:HG12	2.03	0.41
5:CE:255:TRP:CD1	5:CE:256:HIS:HD1	2.39	0.41
6:CF:286:VAL:C	6:CF:288:ARG:N	2.79	0.41
8:CH:44:ALA:C	8:CH:48:ARG:HB3	2.45	0.41
13:CM:40:LEU:HD23	13:CM:114:ILE:HD11	2.03	0.41
18:CR:28:ASN:O	18:CR:32:THR:HG23	2.20	0.41
19:CS:122:ILE:HG23	19:CS:126:GLN:HB2	2.02	0.41
21:CU:80:ARG:HB2	21:CU:124:LEU:HD11	2.02	0.41
21:CU:87:THR:C	21:CU:88:HIS:CG	2.97	0.41
27:CZ:76:VAL:HA	27:CZ:81:ILE:O	2.21	0.41
37:DJ:90:ARG:H	37:DJ:90:ARG:HG2	1.71	0.41
39:DL:21:ARG:HD2	39:DL:37:CYS:SG	2.60	0.41
44:DQ:78:LYS:O	44:DQ:78:LYS:HG2	2.20	0.41
47:p0:7:LYS:HD3	47:p0:10:GLU:OE1	2.20	0.41
25:A:17:C:H2'	25:A:18:C:C6	2.56	0.41
25:A:212:U:C2	25:A:254:A:C2	3.08	0.41
25:A:450:U:H2'	25:A:451:A:H8	1.85	0.41
25:A:548:G:H2'	25:A:549:G:O4'	2.20	0.41
25:A:819:G:O6	25:A:853:G:N1	2.54	0.41
25:A:921:U:H2'	25:A:922:G:C8	2.56	0.41
25:A:1341:A:N3	25:A:1341:A:H2'	2.36	0.41
25:A:1460:A:C8	64:Q:128:HIS:HB3	2.56	0.41
25:A:1530:C:C2	25:A:1531:G:C8	3.08	0.41
49:B:109:ASN:O	49:B:112:THR:HG22	2.20	0.41
54:G:222:LYS:HG3	54:G:225:ARG:CZ	2.50	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
56:I:43:PHE:HE2	56:I:46:ILE:HG12	1.85	0.41
56:I:173:TYR:HE2	56:I:179:LYS:HB2	1.84	0.41
58:K:109:LEU:HA	58:K:148:VAL:HG23	2.02	0.41
61:N:131:ASP:OD1	61:N:132:GLU:N	2.54	0.41
68:U:125:SER:O	68:U:129:GLN:HG3	2.21	0.41
77:d:61:ARG:HG2	77:d:62:GLU:N	2.36	0.41
49:s0:110:TYR:HA	49:s0:115:PHE:CG	2.56	0.41
51:s2:161:LYS:HA	51:s2:165:VAL:O	2.21	0.41
53:s4:207:LEU:HD23	53:s4:221:ARG:HA	2.03	0.41
54:s5:225:ARG:NH2	77:d8:58:GLU:HB2	2.36	0.41
55:s6:2:LYS:HB3	55:s6:108:VAL:HG12	2.02	0.41
60:c1:101:GLU:HB2	72:d3:13:ARG:HB2	2.02	0.41
67:c8:112:ASP:O	67:c8:115:ARG:HB3	2.20	0.41
69:d0:34:LEU:HD21	69:d0:89:ARG:HG3	2.02	0.41
70:d1:33:GLN:HG3	70:d1:53:TYR:O	2.20	0.41
70:d1:41:GLU:H	70:d1:41:GLU:HG2	1.72	0.41
71:d2:5:SER:C	71:d2:7:LEU:H	2.29	0.41
1:1:13:A:OP1	84:1:3656:OHX:N3	2.54	0.41
1:1:953:G:OP1	31:AC:15:LYS:NZ	2.40	0.41
1:1:1025:A:C2	64:Q:75:PRO:HG2	2.56	0.41
1:1:1127:G:N2	1:1:1129:A:H3'	2.35	0.41
1:1:1908:A:H2'	1:1:1909:A:O4'	2.21	0.41
1:1:2257:C:H2'	1:1:2258:U:C6	2.55	0.41
1:1:2585:G:C2	3:4:151:C:H5	2.39	0.41
1:1:2633:U:H2'	1:1:2634:U:O4'	2.21	0.41
1:1:2890:A:N1	1:1:2913:C:N3	2.67	0.41
1:1:3209:A:OP2	21:0:161:LYS:HD2	2.21	0.41
1:1:3317:U:H4'	1:1:3318:G:O5'	2.21	0.41
2:3:49:G:N3	2:3:50:U:H5	2.18	0.41
5:k:92:TYR:CE1	5:k:159:ARG:HD2	2.56	0.41
5:k:227:GLU:HG2	5:k:270:ARG:HD3	2.02	0.41
6:l:300:ARG:HB2	6:l:301:PRO:HD2	2.02	0.41
9:o:210:PRO:N	9:o:243:MET:HG2	2.36	0.41
11:q:53:ILE:HD13	15:u:7:VAL:HG21	2.03	0.41
11:q:94:TYR:CE2	11:q:98:PRO:HA	2.56	0.41
13:s:90:GLN:CD	13:s:172:LEU:HD21	2.46	0.41
14:t:46:ILE:O	14:t:47:ALA:HB3	2.20	0.41
16:v:188:ARG:O	16:v:191:TRP:HB3	2.20	0.41
20:z:173:ARG:O	20:z:177:VAL:HG23	2.20	0.41
21:0:14:LEU:HD23	21:0:14:LEU:HA	1.82	0.41
23:5:89:LEU:O	23:5:93:ILE:HG13	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:6:95:G:C6	25:6:96:G:C4	3.09	0.41
25:6:116:U:H2'	25:6:117:U:C6	2.56	0.41
25:6:809:A:C6	25:6:810:G:C6	3.08	0.41
25:6:830:U:C2'	25:6:831:U:H5'	2.50	0.41
25:6:1660:A:H2'	25:6:1661:U:C6	2.56	0.41
25:6:1757:G:C4	25:6:1758:U:C5	3.08	0.41
25:6:1796:C:H6	75:d6:7:SER:HB3	1.86	0.41
27:8:132:ALA:O	27:8:135:ILE:HG22	2.21	0.41
31:AC:38:LYS:HA	31:AC:41:ARG:NH1	2.36	0.41
33:AE:53:PRO:O	33:AE:57:GLN:HG3	2.20	0.41
44:AP:10:THR:O	44:AP:20:HIS:HA	2.21	0.41
45:AQ:49:ARG:NE	45:AQ:51:ALA:O	2.54	0.41
46:i:96:ARG:H	25:A:1274:C:H5	1.69	0.41
1:AR:423:A:C6	1:AR:424:G:C6	3.09	0.41
1:AR:559:A:H2'	1:AR:560:G:O4'	2.20	0.41
1:AR:590:G:C2	1:AR:610:G:H2'	2.56	0.41
1:AR:644:G:H2'	1:AR:2372:A:N7	2.36	0.41
1:AR:1109:U:H2'	1:AR:1110:U:O4'	2.21	0.41
1:AR:1661:G:H2'	1:AR:1662:G:C8	2.56	0.41
1:AR:1677:G:OP2	23:CW:103:TYR:OH	2.22	0.41
1:AR:2537:U:H5''	50:s1:229:MET:HB2	2.02	0.41
1:AR:3054:U:C2'	1:AR:3055:U:H5'	2.51	0.41
3:AT:27:U:H6	3:AT:27:U:O5'	2.04	0.41
4:CD:45:VAL:HG21	4:CD:48:ILE:HG22	2.02	0.41
5:CE:160:VAL:HB	5:CE:183:LEU:HD21	2.03	0.41
5:CE:287:LYS:HE3	5:CE:287:LYS:HB3	1.95	0.41
6:CF:140:HIS:HA	6:CF:177:ASP:OD1	2.21	0.41
9:CI:43:ILE:O	9:CI:47:ARG:HG3	2.20	0.41
12:CL:66:GLU:OE1	12:CL:69:ARG:NH2	2.54	0.41
12:CL:169:LYS:HD3	22:CV:159:PHE:HA	2.03	0.41
14:CN:126:PHE:HA	14:CN:127:PRO:HD3	1.82	0.41
15:CO:39:ILE:HG13	15:CO:44:VAL:HA	2.02	0.41
22:CV:65:TYR:HB3	22:CV:75:ILE:HG23	2.03	0.41
24:CX:27:ASP:OD1	24:CX:29:SER:OG	2.35	0.41
32:DE:9:SER:O	32:DE:13:LYS:HG2	2.20	0.41
34:DG:19:ARG:HB2	34:DG:31:ASN:O	2.21	0.41
47:p0:188:VAL:O	47:p0:189:GLN:HG2	2.21	0.41
25:A:95:G:H3'	25:A:96:G:H8	1.86	0.41
25:A:693:U:H5''	25:A:694:U:H5'	2.03	0.41
25:A:955:A:H4'	25:A:1073:G:O2'	2.20	0.41
25:A:1013:A:H2'	25:A:1014:G:O4'	2.21	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1135:U:O4	72:Y:112:LYS:NZ	2.53	0.41
25:A:1252:C:H2'	25:A:1253:U:O4'	2.21	0.41
25:A:1521:G:O2'	25:A:1523:G:OP2	2.29	0.41
49:B:50:VAL:HG22	66:S:109:LEU:HD21	2.01	0.41
51:D:40:LYS:HA	51:D:43:ARG:NH1	2.36	0.41
52:E:114:ALA:HB3	52:E:117:ARG:HB2	2.02	0.41
54:G:93:LEU:HD22	54:G:93:LEU:HA	1.85	0.41
54:G:167:ARG:HH22	77:d:55:VAL:HG23	1.86	0.41
59:L:76:LEU:HD13	59:L:76:LEU:H	1.85	0.41
61:N:131:ASP:HB2	61:N:132:GLU:OE1	2.21	0.41
67:T:90:ASN:O	67:T:95:GLY:HA2	2.19	0.41
69:V:70:THR:HA	69:V:71:PRO:HD3	1.94	0.41
69:V:72:ASN:HD22	69:V:74:GLU:H	1.69	0.41
78:e:24:CYS:O	78:e:25:SER:OG	2.30	0.41
50:s1:70:LEU:HA	50:s1:70:LEU:HD23	1.75	0.41
51:s2:183:ALA:HB1	51:s2:211:LEU:HD21	2.01	0.41
58:s9:49:LEU:HD13	58:s9:101:VAL:HG13	2.01	0.41
61:c2:71:ILE:HD13	61:c2:72:ILE:HG12	2.03	0.41
73:d4:91:LEU:O	73:d4:96:LEU:N	2.54	0.41
75:d6:9:GLY:O	75:d6:10:ARG:HD2	2.20	0.41
1:1:345:G:P	1:1:1429:G:H22	2.44	0.41
1:1:518:G:O6	84:1:3646:OHX:N6	2.54	0.41
1:1:727:G:OP2	1:1:742:G:N2	2.54	0.41
1:1:915:A:H2'	1:1:915:A:N3	2.36	0.41
1:1:964:G:O2'	30:AB:41:HIS:NE2	2.45	0.41
1:1:978:G:H1'	1:1:1104:G:N2	2.36	0.41
1:1:1109:U:H2'	1:1:1110:U:O4'	2.21	0.41
1:1:1131:G:C2	1:1:2373:A:C4	3.08	0.41
1:1:1234:G:H1	1:1:1254:C:H42	1.67	0.41
1:1:1464:G:O6	84:AE:201:OHX:N3	2.53	0.41
1:1:1592:G:OP2	36:AH:37:LYS:NZ	2.38	0.41
1:1:1667:A:H2'	1:1:1668:G:H8	1.85	0.41
1:1:1729:A:C6	32:AD:49:PRO:HD3	2.55	0.41
1:1:1911:A:H2	1:1:2122:G:C8	2.39	0.41
1:1:1936:A:C2	1:1:1937:U:C2	3.08	0.41
1:1:2093:A:H2'	1:1:2094:C:O4'	2.21	0.41
1:1:2111:G:H1'	26:7:44:LYS:HD2	2.03	0.41
1:1:2124:G:C2	1:1:2330:C:C2	3.09	0.41
1:1:2185:G:H5'	4:j:219:ILE:HD11	2.02	0.41
1:1:2299:A:C5	1:1:2300:G:C8	3.09	0.41
1:1:2350:C:H4'	1:1:3308:C:O2'	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2396:G:H5''	1:1:2397:A:H4'	2.03	0.41
1:1:2905:U:H2'	1:1:2906:C:H6	1.86	0.41
1:1:3282:U:H2'	1:1:3283:U:C6	2.55	0.41
1:1:3335:A:H2'	1:1:3336:A:C8	2.56	0.41
2:3:76:A:C8	2:3:78:U:C2	3.09	0.41
4:j:27:ALA:O	4:j:28:LYS:HG3	2.21	0.41
5:k:4:ARG:HD3	5:k:7:GLU:HA	2.02	0.41
5:k:68:HIS:CD2	5:k:69:LYS:HG2	2.56	0.41
5:k:139:GLN:H	5:k:139:GLN:HG3	1.68	0.41
5:k:235:THR:OG1	5:k:236:LYS:N	2.54	0.41
6:l:316:ASN:HA	6:l:317:PRO:HD3	1.95	0.41
7:m:38:THR:HG22	22:2:30:TYR:CB	2.49	0.41
13:s:14:ILE:HG23	13:s:129:VAL:HG13	2.03	0.41
13:s:21:ILE:HG13	13:s:37:LEU:HD11	2.03	0.41
15:u:55:ARG:HH11	21:0:70:THR:HB	1.86	0.41
16:v:66:VAL:CG2	16:v:98:LEU:HD12	2.51	0.41
19:y:157:PRO:HA	19:y:186:VAL:HG12	2.02	0.41
20:z:44:LEU:HD13	20:z:44:LEU:HA	1.81	0.41
20:z:123:LEU:O	20:z:127:SER:OG	2.28	0.41
22:2:18:ASP:O	22:2:21:LYS:HB2	2.21	0.41
23:5:30:PRO:HA	23:5:33:TYR:HB3	2.03	0.41
25:6:5:U:OP2	51:s:204:THR:OG1	2.33	0.41
25:6:20:G:H5'	25:6:571:G:C8	2.56	0.41
25:6:332:U:P	57:s:8:56:ARG:HH22	2.43	0.41
25:6:351:C:OP1	25:6:630:A:O2'	2.27	0.41
25:6:421:A:O2'	25:6:422:G:H5'	2.21	0.41
25:6:542:A:H1'	25:6:543:C:OP1	2.21	0.41
25:6:763:G:H2'	25:6:764:U:C6	2.56	0.41
25:6:1146:G:H1'	51:s:2:89:GLN:HG2	2.02	0.41
25:6:1182:U:H2'	25:6:1184:A:OP2	2.20	0.41
25:6:1206:U:H2'	25:6:1207:C:C5	2.56	0.41
25:6:1535:U:O2'	25:6:1536:G:N3	2.47	0.41
25:6:1796:C:C2	75:d:6:5:ARG:HG2	2.56	0.41
29:AA:64:LYS:HB2	29:AA:64:LYS:HE2	1.93	0.41
29:AA:87:LEU:HD12	29:AA:88:ASP:N	2.36	0.41
30:AB:101:VAL:HG22	30:AB:124:ILE:HB	2.02	0.41
30:AB:114:GLY:O	30:AB:116:GLY:N	2.54	0.41
32:AD:15:ALA:O	32:AD:19:LYS:HG2	2.20	0.41
33:AE:31:ARG:HB3	33:AE:31:ARG:NH1	2.36	0.41
37:AI:18:ALA:O	37:AI:22:VAL:HG23	2.21	0.41
42:AN:104:PRO:HA	42:AN:105:PRO:HD3	1.81	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AR:139:G:H2'	1:AR:140:C:C6	2.56	0.41
1:AR:216:G:H4'	28:DA:19:TYR:CE1	2.56	0.41
1:AR:359:U:H2'	1:AR:360:G:O4'	2.21	0.41
1:AR:436:A:H3'	1:AR:437:G:C8	2.56	0.41
1:AR:514:G:N2	1:AR:515:C:H1'	2.35	0.41
1:AR:685:G:P	14:CN:35:ARG:NH1	2.94	0.41
1:AR:712:G:H2'	1:AR:713:U:C6	2.55	0.41
1:AR:784:A:H62	19:CS:72:LYS:NZ	2.19	0.41
1:AR:794:U:H2'	1:AR:795:G:H8	1.86	0.41
1:AR:824:C:H2'	1:AR:825:U:H6	1.82	0.41
1:AR:883:A:C5	1:AR:921:A:C6	3.08	0.41
1:AR:1348:U:H5	19:CS:31:LYS:HD2	1.86	0.41
1:AR:1639:C:O2'	1:AR:1640:G:H5'	2.21	0.41
1:AR:2212:C:O2'	1:AR:2233:A:N6	2.47	0.41
1:AR:2268:U:C3'	1:AR:2269:U:H5''	2.49	0.41
1:AR:2427:U:H2'	1:AR:2428:U:C6	2.56	0.41
1:AR:2535:A:H2'	1:AR:2536:A:H5'	2.03	0.41
1:AR:2537:U:P	50:s1:226:GLY:HA2	2.61	0.41
1:AR:2821:C:H2'	1:AR:2822:U:H5'	2.03	0.41
1:AR:3181:C:H2'	1:AR:3182:G:H8	1.85	0.41
1:AR:3198:U:H4'	1:AR:3199:G:OP2	2.21	0.41
1:AR:3305:A:H2'	1:AR:3306:U:O4'	2.21	0.41
2:AS:9:C:OP1	22:CV:26:HIS:HB2	2.21	0.41
2:AS:58:C:H2'	2:AS:59:U:H6	1.86	0.41
3:AT:19:C:H2'	3:AT:20:U:O4'	2.21	0.41
4:CD:224:THR:HA	4:CD:237:LEU:O	2.21	0.41
5:CE:224:HIS:HB2	5:CE:270:ARG:HG2	2.02	0.41
6:CF:157:GLU:HG2	6:CF:209:TYR:HB2	2.03	0.41
6:CF:316:ASN:HA	6:CF:317:PRO:HD3	1.90	0.41
8:CH:155:LEU:HD22	8:CH:155:LEU:HA	1.85	0.41
9:CI:111:ILE:O	9:CI:112:ASN:HB2	2.21	0.41
9:CI:173:LEU:HA	9:CI:173:LEU:HD12	1.82	0.41
10:CJ:78:PHE:C	10:CJ:80:TYR:N	2.78	0.41
11:CK:176:LEU:HD13	42:DO:83:LYS:HG3	2.02	0.41
12:CL:9:TYR:O	12:CL:59:GLN:NE2	2.54	0.41
14:CN:13:HIS:ND1	14:CN:13:HIS:N	2.67	0.41
16:CP:175:ASN:HB2	16:CP:180:PHE:CZ	2.56	0.41
19:CS:24:VAL:HA	19:CS:27:LYS:HD2	2.01	0.41
21:CU:10:ILE:O	21:CU:59:VAL:N	2.52	0.41
21:CU:107:TYR:CE2	21:CU:123:ILE:HD11	2.56	0.41
22:CV:139:ARG:NH2	22:CV:139:ARG:HB3	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
24:CX:28:ASN:OD1	24:CX:28:ASN:N	2.48	0.41
28:DA:59:VAL:HG12	28:DA:103:LYS:O	2.21	0.41
31:DD:22:LYS:H	31:DD:22:LYS:HD2	1.85	0.41
31:DD:43:HIS:O	31:DD:47:LEU:HG	2.21	0.41
35:DH:18:ARG:HA	35:DH:23:ASN:HA	2.03	0.41
37:DJ:74:LYS:HE3	37:DJ:75:TYR:CZ	2.55	0.41
37:DJ:102:GLU:O	37:DJ:106:LYS:HG3	2.21	0.41
43:DP:23:ARG:NH2	43:DP:23:ARG:HB3	2.36	0.41
44:DQ:12:CYS:HB2	44:DQ:23:HIS:NE2	2.36	0.41
25:A:21:U:H2'	25:A:22:A:C8	2.55	0.41
25:A:86:A:H2'	25:A:87:C:C6	2.56	0.41
25:A:350:U:O2	25:A:352:A:C6	2.74	0.41
25:A:423:G:H4'	25:A:424:C:OP1	2.20	0.41
25:A:477:A:H2'	25:A:478:A:H8	1.86	0.41
25:A:482:U:H2'	25:A:483:A:H8	1.86	0.41
25:A:627:C:C2	25:A:973:A:C2	3.09	0.41
25:A:685:A:H2'	25:A:686:C:C6	2.56	0.41
25:A:755:A:H2'	25:A:756:A:O4'	2.20	0.41
25:A:1017:U:H2'	25:A:1018:U:C6	2.56	0.41
25:A:1250:U:O2'	25:A:1251:U:OP1	2.35	0.41
25:A:1320:U:O2	25:A:1322:A:H5'	2.21	0.41
25:A:1344:A:H4'	25:A:1345:A:OP1	2.21	0.41
25:A:1346:A:H8	25:A:1370:U:O2	2.04	0.41
25:A:1483:A:C6	25:A:1484:G:C6	3.09	0.41
25:A:1541:G:C5	25:A:1542:G:C6	3.09	0.41
25:A:1579:U:O2'	65:R:139:GLN:HA	2.20	0.41
25:A:1637:C:OP2	84:A:1990:OHX:N5	2.54	0.41
25:A:1653:C:OP2	84:A:1964:OHX:N4	2.54	0.41
25:A:1796:C:OP2	75:b:5:ARG:NH1	2.45	0.41
51:D:61:LEU:HA	51:D:62:PRO:HD2	1.90	0.41
52:E:23:GLU:CD	59:L:61:TRP:HE1	2.28	0.41
52:E:101:GLN:HG3	52:E:126:VAL:CG2	2.51	0.41
52:E:105:MET:HA	52:E:108:LYS:HD3	2.02	0.41
53:F:159:THR:HB	53:F:227:VAL:HG23	2.02	0.41
57:J:48:THR:HG23	57:J:52:ASN:O	2.21	0.41
58:K:65:LYS:HA	58:K:70:LEU:HD21	2.03	0.41
58:K:174:ARG:HH21	58:K:177:ALA:CB	2.33	0.41
60:M:108:PRO:HG3	60:M:134:THR:HB	2.02	0.41
61:N:76:GLU:HG3	61:N:88:LEU:HD11	2.03	0.41
62:O:62:GLN:HG3	62:O:65:VAL:HG23	2.03	0.41
63:P:31:THR:OG1	63:P:32:ASP:N	2.52	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
67:T:38:VAL:HG13	67:T:101:LEU:HD22	2.02	0.41
70:W:64:GLU:OE1	76:c:3:LEU:HB2	2.21	0.41
72:Y:79:ASN:OD1	72:Y:81:LYS:HG3	2.20	0.41
73:Z:27:VAL:O	73:Z:68:LYS:HA	2.20	0.41
74:a:56:THR:HA	74:a:103:ARG:NH1	2.36	0.41
76:c:29:ARG:HD3	76:c:29:ARG:HA	1.84	0.41
80:g:111:GLU:HA	80:g:112:GLY:HA2	1.87	0.41
49:s0:56:LYS:HE2	49:s0:159:ALA:O	2.20	0.41
50:s1:175:GLU:HG3	50:s1:187:LYS:HD3	2.03	0.41
52:s3:73:VAL:HG13	52:s3:77:PHE:HD2	1.86	0.41
53:s4:54:TYR:CD1	73:d4:17:LEU:HD12	2.56	0.41
54:s5:25:LEU:HD21	54:s5:29:ILE:HD12	2.03	0.41
54:s5:162:VAL:HG22	54:s5:167:ARG:HG2	2.03	0.41
55:s6:178:LEU:O	55:s6:180:THR:HG23	2.20	0.41
58:s9:150:LEU:HD12	58:s9:150:LEU:HA	1.78	0.41
60:c1:38:ALA:HB2	60:c1:60:PHE:CE2	2.56	0.41
62:c3:130:ARG:HD3	62:c3:137:PRO:O	2.21	0.41
62:c3:134:VAL:O	62:c3:135:LEU:HD23	2.20	0.41
64:c5:69:GLU:HG2	64:c5:70:ASN:H	1.85	0.41
65:c6:54:LEU:HD13	65:c6:54:LEU:HA	1.93	0.41
65:c6:66:ARG:HH21	65:c6:68:ARG:CD	2.32	0.41
82:c7:46:LEU:HD22	82:c7:50:ILE:HD11	2.03	0.41
67:c8:84:TRP:HA	67:c8:89:GLN:NE2	2.36	0.41
67:c8:119:ILE:HD12	67:c8:119:ILE:HA	1.89	0.41
68:c9:40:SER:CB	68:c9:96:ALA:HA	2.51	0.41
68:c9:65:ILE:HB	68:c9:124:ILE:HD13	2.03	0.41
77:d8:33:LEU:HD21	77:d8:53:ILE:HD13	2.03	0.41
81:sR:158:PRO:O	81:sR:208:GLY:HA3	2.20	0.41
1:1:440:A:H8	1:1:440:A:OP2	2.03	0.41
1:1:999:G:O2'	1:1:1000:C:H5'	2.20	0.41
1:1:1139:G:OP1	9:o:97:PRO:HG3	2.20	0.41
1:1:2233:A:H2'	1:1:2234:G:O4'	2.21	0.41
1:1:2284:C:N4	1:1:2308:C:OP2	2.52	0.41
1:1:2360:C:H5''	1:1:2361:A:P	2.61	0.41
4:j:185:ALA:O	4:j:188:LYS:HB3	2.20	0.41
5:k:292:ALA:HA	5:k:303:LYS:O	2.21	0.41
6:l:135:VAL:HA	6:l:245:GLY:O	2.21	0.41
6:l:255:PHE:O	6:l:258:LEU:HB2	2.21	0.41
7:m:95:TRP:CH2	7:m:161:GLY:HA2	2.56	0.41
7:m:144:VAL:O	7:m:173:VAL:HG13	2.21	0.41
8:n:75:PRO:HA	8:n:138:GLN:NE2	2.36	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:s:23:VAL:O	13:s:65:ILE:HG23	2.20	0.41
14:t:163:GLY:HA2	30:AB:139:ARG:NH1	2.31	0.41
15:u:45:LEU:HD12	15:u:56:GLN:O	2.21	0.41
16:v:119:TYR:CE1	16:v:131:GLU:HB2	2.56	0.41
19:y:178:ARG:HA	19:y:178:ARG:HD3	1.49	0.41
22:2:31:LEU:HA	22:2:31:LEU:HD23	1.85	0.41
25:6:546:U:H2'	25:6:547:U:H6	1.86	0.41
25:6:1208:A:H5''	25:6:1209:C:OP2	2.21	0.41
25:6:1312:A:N7	82:c7:2:GLY:N	2.69	0.41
25:6:1754:A:H4'	25:6:1755:A:O5'	2.20	0.41
27:8:67:ILE:CD1	27:8:121:LYS:HG3	2.51	0.41
1:AR:149:U:H5'	16:CP:55:ALA:HB3	2.01	0.41
1:AR:160:G:H2'	1:AR:161:G:O4'	2.21	0.41
1:AR:646:A:C2	1:AR:2375:G:C2	3.09	0.41
1:AR:771:A:H2'	1:AR:772:U:O4'	2.21	0.41
1:AR:1157:G:C2	1:AR:1158:A:H1'	2.56	0.41
1:AR:1387:G:H1'	1:AR:1421:G:N2	2.36	0.41
1:AR:2192:C:O2'	1:AR:2312:A:N1	2.48	0.41
1:AR:2202:C:O2'	4:CD:240:ALA:O	2.24	0.41
1:AR:2869:U:H5''	1:AR:2870:C:OP2	2.20	0.41
1:AR:2947:G:OP2	1:AR:2947:G:H4'	2.20	0.41
2:AS:13:A:OP1	2:AS:111:U:O2'	2.30	0.41
4:CD:49:VAL:N	4:CD:58:LEU:O	2.44	0.41
4:CD:68:LYS:HG2	4:CD:69:TYR:N	2.35	0.41
4:CD:113:VAL:HG12	4:CD:166:ILE:HA	2.02	0.41
9:CI:79:ALA:HB2	22:CV:138:SER:N	2.35	0.41
11:CK:49:ASN:ND2	11:CK:51:GLN:OE1	2.54	0.41
12:CL:210:ILE:HG23	12:CL:217:PHE:CD2	2.56	0.41
14:CN:75:PHE:H	14:CN:97:VAL:HA	1.85	0.41
15:CO:23:ILE:HG21	15:CO:28:SER:HB2	2.03	0.41
17:CQ:39:GLU:H	17:CQ:39:GLU:CD	2.29	0.41
18:CR:51:VAL:HG22	18:CR:56:ARG:O	2.21	0.41
20:CT:32:ILE:HD11	20:CT:49:THR:HG22	2.03	0.41
29:DB:83:THR:HG23	29:DB:85:TYR:N	2.35	0.41
36:DI:8:ARG:HH21	36:DI:31:ARG:CG	2.31	0.41
38:DK:86:LYS:NZ	38:DK:89:GLU:OE2	2.40	0.41
39:DL:21:ARG:NH2	39:DL:41:ALA:O	2.54	0.41
47:p0:48:ARG:HH21	47:p0:91:GLU:HG3	1.85	0.41
25:A:320:U:C2	25:A:321:C:H6	2.39	0.41
25:A:799:A:H4'	53:F:201:HIS:NE2	2.36	0.41
25:A:1147:A:H2'	25:A:1148:C:C6	2.56	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1500:C:OP2	68:U:102:ARG:HD3	2.20	0.41
25:A:1601:G:P	68:U:86:ARG:HH22	2.44	0.41
25:A:1797:A:C5	75:b:87:ARG:NH1	2.89	0.41
49:B:49:ASN:CG	49:B:52:LYS:HG3	2.46	0.41
50:C:213:ARG:HB3	50:C:214:LYS:H	1.63	0.41
50:C:222:LYS:HD3	50:C:222:LYS:HA	1.89	0.41
54:G:150:GLY:C	54:G:152:GLY:H	2.29	0.41
55:H:185:GLN:HA	55:H:188:ARG:NH1	2.36	0.41
58:K:96:VAL:HA	58:K:99:LEU:HD22	2.03	0.41
60:M:134:THR:O	60:M:136:ARG:HD2	2.21	0.41
62:O:16:ILE:HA	62:O:17:PRO:HD3	1.92	0.41
63:P:28:VAL:O	63:P:41:ARG:O	2.38	0.41
71:X:29:PRO:HB2	71:X:58:SER:HB2	2.03	0.41
75:b:20:PRO:HA	75:b:31:PRO:HA	2.02	0.41
81:h:70:ASP:HB2	81:h:111:MET:O	2.21	0.41
81:h:286:GLU:HA	81:h:287:PRO:HD3	1.87	0.41
50:s1:137:ILE:HD13	50:s1:172:LEU:HD22	2.03	0.41
60:c1:67:ARG:HH12	60:c1:127:GLN:HG2	1.86	0.41
62:c3:132:VAL:O	62:c3:133:ALA:HB3	2.21	0.41
63:c4:113:GLY:HA3	75:d6:59:TYR:HE2	1.86	0.41
67:c8:73:MET:HE3	67:c8:73:MET:HB2	1.77	0.41
68:c9:117:SER:HB3	68:c9:123:ARG:HB3	2.03	0.41
69:d0:42:VAL:HG21	69:d0:55:PRO:HD3	2.03	0.41
71:d2:95:PRO:HD3	71:d2:130:TYR:CD2	2.56	0.41
74:d5:92:ILE:HG13	74:d5:93:SER:H	1.85	0.41
77:d8:57:MET:HE3	77:d8:57:MET:HB3	1.89	0.41
79:e0:14:VAL:HA	79:e0:17:GLN:HG2	2.03	0.41
1:1:28:C:C2	1:1:57:A:C6	3.09	0.40
1:1:88:A:H2'	1:1:89:A:O4'	2.20	0.40
1:1:607:A:OP1	8:n:24:ALA:N	2.54	0.40
1:1:785:G:O4'	19:y:92:ARG:NH1	2.54	0.40
1:1:1547:G:OP1	16:v:105:ARG:HD3	2.21	0.40
1:1:1589:A:OP1	36:AH:11:ASN:HB2	2.21	0.40
1:1:2143:A:O2'	1:1:2144:A:H2'	2.21	0.40
1:1:2223:A:N6	1:1:2783:U:O2'	2.41	0.40
1:1:2624:G:C6	1:1:2625:C:N4	2.89	0.40
1:1:2665:U:H4'	1:1:2666:C:OP1	2.21	0.40
1:1:2911:A:H4'	1:1:2912:G:C8	2.55	0.40
1:1:2914:G:OP2	84:1:3587:OHX:N2	2.53	0.40
84:1:3410:OHX:N1	3:4:2:A:OP2	2.54	0.40
3:4:5:U:H2'	3:4:6:U:O4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:j:204:MET:H	4:j:204:MET:HG2	1.71	0.40
5:k:35:ASP:OD2	5:k:37:ARG:HD2	2.21	0.40
5:k:238:LEU:HD12	5:k:238:LEU:HA	1.93	0.40
6:l:169:LEU:O	6:l:172:VAL:HG12	2.21	0.40
10:p:140:VAL:HG22	10:p:166:LEU:HD21	2.03	0.40
13:s:75:LYS:O	13:s:79:ILE:HG13	2.21	0.40
14:t:18:TRP:C	14:t:20:GLU:N	2.78	0.40
16:v:140:LYS:O	16:v:144:ARG:HG3	2.21	0.40
18:x:112:LEU:HA	18:x:151:THR:O	2.21	0.40
20:z:105:LEU:HD12	20:z:135:LYS:HG3	2.03	0.40
25:6:246:G:C2	25:6:247:A:C4	3.09	0.40
25:6:301:A:H4'	57:s8:27:PHE:CD1	2.57	0.40
25:6:1166:A:H2'	25:6:1167:G:O4'	2.21	0.40
25:6:1354:G:C5	25:6:1355:C:C4	3.10	0.40
25:6:1460:A:C4	48:sM:76:VAL:HG22	2.56	0.40
25:6:1516:A:C8	69:d0:58:LEU:HD23	2.56	0.40
25:6:1538:U:C4	25:6:1540:G:C8	3.09	0.40
25:6:1604:U:C4	25:6:1605:G:N7	2.89	0.40
28:9:36:SER:O	28:9:40:ARG:N	2.52	0.40
32:AD:36:GLN:OE1	32:AD:38:LYS:HE2	2.21	0.40
33:AE:12:TYR:CE2	33:AE:43:HIS:CD2	3.09	0.40
36:AH:22:VAL:HG12	36:AH:30:LEU:HD22	2.03	0.40
39:AK:17:THR:HG22	39:AK:18:LEU:N	2.34	0.40
46:i:70:ASN:O	46:i:74:LYS:HD3	2.21	0.40
1:AR:276:U:H2'	1:AR:277:G:C8	2.56	0.40
1:AR:380:U:H2'	1:AR:381:U:O4'	2.21	0.40
1:AR:642:U:OP1	30:DC:22:ILE:HG23	2.21	0.40
1:AR:731:U:H2'	1:AR:732:C:H6	1.85	0.40
1:AR:781:G:O6	84:AR:3493:OHX:N6	2.54	0.40
1:AR:1100:U:H2'	1:AR:1101:G:H8	1.85	0.40
1:AR:1155:C:H2'	1:AR:1156:C:C6	2.56	0.40
1:AR:1204:A:H2'	1:AR:1205:A:H5'	2.03	0.40
1:AR:1412:G:C5	1:AR:1413:G:N7	2.89	0.40
1:AR:1678:G:C2	1:AR:1679:A:C4	3.09	0.40
1:AR:2668:U:H2'	1:AR:2669:G:C8	2.56	0.40
5:CE:252:ILE:HD12	5:CE:252:ILE:HA	1.81	0.40
5:CE:361:THR:HG22	5:CE:371:GLN:OE1	2.21	0.40
10:CJ:149:LYS:O	10:CJ:176:PRO:HG2	2.21	0.40
10:CJ:150:LEU:HD22	10:CJ:151:VAL:H	1.86	0.40
16:CP:36:ILE:HD13	16:CP:106:VAL:HG12	2.03	0.40
16:CP:92:LEU:N	16:CP:92:LEU:HD12	2.36	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
16:CP:143:ARG:HH21	37:DJ:92:LEU:HA	1.86	0.40
18:CR:52:LEU:HD21	18:CR:89:LYS:HG2	2.03	0.40
20:CT:176:ARG:HD3	20:CT:176:ARG:HA	1.95	0.40
23:CW:12:ALA:HA	23:CW:68:THR:HA	2.02	0.40
23:CW:94:ARG:HE	23:CW:94:ARG:HB3	1.53	0.40
24:CX:24:ASN:O	24:CX:99:ALA:HA	2.20	0.40
30:DC:77:LYS:HB2	30:DC:78:LEU:H	1.69	0.40
45:DR:51:ALA:O	45:DR:54:ILE:HB	2.20	0.40
48:sM:45:SER:O	48:sM:46:LYS:HB2	2.21	0.40
25:A:616:G:C2	25:A:622:A:C8	3.10	0.40
25:A:1640:C:H2'	25:A:1641:C:C6	2.56	0.40
49:B:7:PHE:HD1	49:B:7:PHE:HA	1.72	0.40
49:B:34:GLU:HA	49:B:35:PRO:HD2	1.85	0.40
49:B:177:LEU:O	49:B:181:VAL:HG13	2.20	0.40
50:C:140:ILE:O	50:C:210:ILE:HA	2.21	0.40
54:G:89:ILE:H	54:G:89:ILE:HG13	1.55	0.40
61:N:90:LYS:HA	61:N:90:LYS:HD3	1.81	0.40
66:S:6:THR:OG1	66:S:7:LYS:N	2.54	0.40
69:V:63:LEU:HB3	78:e:34:TYR:CE2	2.56	0.40
71:X:117:ARG:HD2	71:X:117:ARG:HA	1.89	0.40
80:g:98:VAL:HG11	80:g:100:LEU:HD22	2.02	0.40
49:s0:56:LYS:NZ	49:s0:158:VAL:HA	2.36	0.40
49:s0:184:LEU:O	49:s0:186:GLY:N	2.54	0.40
49:s0:189:VAL:HG13	49:s0:190:ASP:N	2.36	0.40
51:s2:246:GLU:H	51:s2:246:GLU:HG2	1.61	0.40
53:s4:15:PRO:HA	53:s4:39:ARG:NH1	2.35	0.40
53:s4:118:GLU:HA	53:s4:121:TYR:CE1	2.57	0.40
54:s5:63:GLN:OE1	54:s5:65:ARG:N	2.55	0.40
63:c4:31:THR:OG1	63:c4:32:ASP:N	2.54	0.40
64:c5:36:LEU:HD13	64:c5:36:LEU:H	1.86	0.40
64:c5:87:PRO:HA	64:c5:90:ILE:HG13	2.02	0.40
65:c6:47:LYS:NZ	65:c6:114:ARG:HD3	2.36	0.40
65:c6:117:LEU:H	65:c6:117:LEU:HD23	1.85	0.40
68:c9:35:ASP:OD1	68:c9:36:ILE:HG23	2.21	0.40
70:d1:69:LEU:HD23	70:d1:69:LEU:HA	1.86	0.40
1:1:372:A:H2'	1:1:373:A:O4'	2.22	0.40
1:1:520:U:H3	6:l:347:THR:HG23	1.86	0.40
1:1:835:G:HO2'	1:1:836:A:P	2.44	0.40
1:1:1431:G:OP2	30:AB:12:ARG:NH1	2.55	0.40
1:1:1925:U:O2	45:AQ:19:GLY:HA2	2.20	0.40
1:1:1932:A:H5'	1:1:1933:A:OP2	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:1:2203:U:H2'	1:1:2204:C:C6	2.55	0.40
1:1:2278:C:O2'	1:1:2279:A:H5''	2.22	0.40
1:1:2674:A:H2'	1:1:2675:C:C6	2.56	0.40
1:1:2794:G:HO2'	1:1:2795:U:P	2.40	0.40
1:1:2889:C:C4	1:1:2936:A:C8	3.10	0.40
1:1:2941:A:N7	5:k:255:TRP:CE2	2.89	0.40
1:1:3000:A:H2'	1:1:3001:C:C6	2.57	0.40
1:1:3166:C:H2'	1:1:3167:A:O4'	2.22	0.40
2:3:36:C:O2'	2:3:37:G:H5'	2.21	0.40
3:4:102:U:H2'	3:4:103:G:C8	2.56	0.40
5:k:214:MET:HB3	5:k:214:MET:HE3	1.77	0.40
5:k:287:LYS:HB3	5:k:289:ASP:OD1	2.21	0.40
6:l:82:THR:HG23	6:l:84:ARG:H	1.86	0.40
6:l:291:ASN:O	6:l:296:GLN:HG2	2.21	0.40
8:n:158:TYR:CE1	15:u:115:PHE:HA	2.57	0.40
12:r:77:THR:O	12:r:81:GLY:N	2.46	0.40
14:t:56:PRO:HG3	14:t:74:GLY:O	2.21	0.40
15:u:24:LYS:HE2	15:u:25:LYS:HE2	2.03	0.40
16:v:13:LYS:C	16:v:16:SER:HG	2.23	0.40
18:x:105:LYS:HB3	18:x:107:LEU:HD13	2.03	0.40
24:l:109:MET:HE3	24:l:109:MET:HB3	1.65	0.40
25:6:1004:U:O4	84:AR:3456:OHX:N2	2.55	0.40
25:6:1139:A:H2'	25:6:1140:G:O4'	2.21	0.40
25:6:1185:U:O2	25:6:1185:U:H2'	2.20	0.40
25:6:1525:A:C6	25:6:1526:A:C6	3.09	0.40
25:6:1529:C:H2'	25:6:1530:C:C6	2.56	0.40
29:AA:53:VAL:HA	29:AA:57:HIS:CD2	2.52	0.40
1:AR:26:A:C5	1:AR:27:C:C5	3.10	0.40
1:AR:378:A:H3'	1:AR:379:C:C6	2.56	0.40
1:AR:409:A:N1	1:AR:1441:G:O2'	2.49	0.40
1:AR:929:A:H2'	1:AR:930:U:C6	2.56	0.40
1:AR:1593:A:N3	1:AR:1615:C:O2'	2.54	0.40
1:AR:1647:A:C2	1:AR:1809:A:H1'	2.56	0.40
1:AR:1741:A:C2	1:AR:1742:U:C4	3.09	0.40
1:AR:2201:G:H2'	1:AR:2202:C:H6	1.86	0.40
1:AR:2252:A:HO2'	1:AR:2253:G:P	2.45	0.40
1:AR:2287:C:C2	1:AR:2298:U:O4'	2.74	0.40
1:AR:2677:G:H2'	1:AR:2679:A:H2	1.86	0.40
1:AR:2691:A:H2'	1:AR:2692:A:C8	2.56	0.40
1:AR:3225:C:H2'	1:AR:3226:A:O4'	2.21	0.40
1:AR:3304:U:O3'	5:CE:334:ARG:NH2	2.53	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:AS:90:U:H2'	2:AS:91:G:O4'	2.21	0.40
3:AT:31:G:OP2	84:AT:206:OHX:N2	2.54	0.40
3:AT:113:U:O4	27:CZ:88:MET:HE3	2.22	0.40
5:CE:293:ASN:HD22	5:CE:305:ILE:HD11	1.86	0.40
6:CF:49:ALA:HA	6:CF:109:TRP:CZ2	2.56	0.40
7:CG:20:PHE:HD1	7:CG:20:PHE:HA	1.77	0.40
8:CH:30:LEU:HD22	8:CH:34:LEU:HD12	2.03	0.40
12:CL:74:LYS:HE3	12:CL:74:LYS:HB2	1.77	0.40
16:CP:8:GLU:O	16:CP:12:ARG:HG3	2.22	0.40
16:CP:23:GLN:HA	16:CP:122:ASN:HD21	1.86	0.40
18:CR:50:GLN:OE1	18:CR:56:ARG:NH2	2.54	0.40
21:CU:67:ALA:O	21:CU:69:PRO:HD3	2.21	0.40
29:DB:17:ARG:C	29:DB:19:ALA:N	2.79	0.40
35:DH:49:ILE:HA	35:DH:99:ARG:O	2.21	0.40
36:DI:10:ARG:HD2	41:DN:4:GLN:NE2	2.37	0.40
36:DI:30:LEU:HD23	36:DI:30:LEU:HA	1.84	0.40
48:sM:121:UNK:HA	51:s2:121:VAL:HG11	2.04	0.40
25:A:14:C:H2'	25:A:15:U:H6	1.85	0.40
25:A:79:C:H1'	55:H:174:LYS:HG3	2.02	0.40
25:A:109:G:O2'	25:A:796:A:N1	2.48	0.40
25:A:505:A:N3	25:A:505:A:H2'	2.37	0.40
25:A:523:G:H5''	73:Z:59:GLY:O	2.21	0.40
25:A:874:C:OP1	84:A:1911:OHX:N2	2.54	0.40
25:A:918:U:H2'	25:A:919:A:C8	2.56	0.40
25:A:959:U:H5'	62:O:15:ALA:O	2.21	0.40
25:A:964:U:H4'	25:A:965:U:O5'	2.21	0.40
25:A:1570:A:H2'	25:A:1571:C:O4'	2.21	0.40
25:A:1623:C:H2'	25:A:1624:C:H6	1.86	0.40
49:B:133:ILE:HD12	49:B:133:ILE:H	1.86	0.40
49:B:198:MET:SD	66:S:85:VAL:HG11	2.61	0.40
50:C:91:VAL:HG23	50:C:96:LEU:HB3	2.03	0.40
50:C:205:PHE:CG	50:C:206:PRO:HD2	2.56	0.40
55:H:139:ASN:O	55:H:143:LYS:N	2.49	0.40
62:O:47:PRO:HG3	62:O:75:LEU:HD22	2.03	0.40
67:T:53:ASP:HB3	67:T:56:LYS:HG3	2.03	0.40
79:f:46:ASN:O	79:f:47:VAL:HG12	2.21	0.40
81:h:29:GLN:HA	81:h:30:PRO:HD2	1.87	0.40
81:h:218:GLY:HA3	81:h:237:GLN:O	2.21	0.40
81:h:232:TYR:N	81:h:232:TYR:CD1	2.89	0.40
51:s2:212:LYS:O	51:s2:216:VAL:HG23	2.22	0.40
53:s4:87:MET:HE3	53:s4:226:PHE:CE1	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:s4:151:ASP:HA	53:s4:152:PRO:HD3	1.93	0.40
53:s4:248:ILE:HG13	53:s4:249:ALA:N	2.37	0.40
56:s7:140:VAL:HB	71:d2:52:TYR:HB3	2.03	0.40
67:c8:94:ASP:OD1	67:c8:95:GLY:N	2.54	0.40
70:d1:17:CYS:CB	70:d1:56:SER:HB3	2.50	0.40
71:d2:29:PRO:HB3	71:d2:58:SER:HB3	2.03	0.40
72:d3:92:CYS:HB3	72:d3:132:LEU:HD22	2.02	0.40
72:d3:126:LYS:HA	72:d3:131:SER:HA	2.03	0.40
74:d5:47:TYR:CE1	74:d5:51:LEU:HD11	2.57	0.40
1:1:68:C:P	1:1:301:G:H21	2.44	0.40
1:1:521:A:N3	21:0:65:ASN:ND2	2.70	0.40
1:1:621:A:H8	1:1:623:U:O4	2.02	0.40
1:1:1591:G:O2'	1:1:1799:A:N6	2.51	0.40
1:1:2424:A:H2'	1:1:2425:G:O4'	2.21	0.40
1:1:2505:U:H2'	1:1:2506:U:C6	2.56	0.40
1:1:2672:G:O2'	13:s:95:ASN:O	2.25	0.40
1:1:2933:A:C2	1:1:3014:U:H4'	2.56	0.40
1:1:2997:G:C1'	1:1:3396:U:H5'	2.50	0.40
1:1:3322:A:H2'	1:1:3323:A:C8	2.57	0.40
84:1:3406:OHX:N1	39:AK:44:THR:O	2.54	0.40
84:1:3618:OHX:N5	38:AJ:28:TYR:O	2.55	0.40
2:3:17:A:OP1	7:m:2:ALA:N	2.54	0.40
5:k:347:SER:O	5:k:349:LYS:N	2.54	0.40
6:l:49:ALA:HA	6:l:109:TRP:CZ2	2.57	0.40
6:l:179:LEU:HD13	6:l:183:LYS:CG	2.52	0.40
9:o:111:ILE:H	9:o:111:ILE:HG22	1.61	0.40
10:p:109:LEU:O	10:p:112:GLU:N	2.55	0.40
16:v:5:LYS:HE2	38:AJ:37:THR:HG22	2.03	0.40
19:y:66:ARG:CZ	19:y:143:PRO:HD3	2.51	0.40
24:l2:15:LEU:HB3	24:l2:51:ALA:HB1	2.02	0.40
24:l2:53:SER:HA	24:l2:81:GLN:HE21	1.84	0.40
25:6:475:A:H2'	25:6:476:U:O4'	2.21	0.40
25:6:523:G:OP1	73:d4:58:PHE:O	2.39	0.40
25:6:752:A:H3'	53:s4:187:ARG:NH1	2.35	0.40
25:6:1610:G:H5''	54:s5:107:LYS:HB2	2.03	0.40
25:6:1620:C:H2'	25:6:1621:U:C6	2.55	0.40
27:8:60:TYR:OH	37:AI:26:LYS:HG3	2.21	0.40
29:AA:38:PHE:CE1	29:AA:40:HIS:HB3	2.57	0.40
30:AB:85:ASP:OD1	30:AB:86:LYS:N	2.54	0.40
38:AJ:21:THR:O	38:AJ:21:THR:OG1	2.39	0.40
38:AJ:40:VAL:O	38:AJ:44:VAL:HG23	2.22	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
45:AQ:53:GLY:O	45:AQ:65:ALA:HA	2.21	0.40
1:AR:293:C:H2'	1:AR:294:U:O4'	2.21	0.40
1:AR:731:U:H2'	1:AR:732:C:C6	2.56	0.40
1:AR:822:G:C6	1:AR:823:C:C4	3.09	0.40
1:AR:1083:G:C6	1:AR:1084:A:C6	3.09	0.40
1:AR:1521:G:C2	1:AR:1522:U:H5	2.40	0.40
1:AR:2144:A:H1'	1:AR:2281:A:N6	2.37	0.40
1:AR:2714:G:H4'	1:AR:2715:A:H5''	2.04	0.40
1:AR:3242:G:N2	1:AR:3245:A:H5''	2.37	0.40
3:AT:52:A:O4'	41:DN:21:ARG:HD2	2.21	0.40
6:CF:269:SER:O	6:CF:269:SER:OG	2.37	0.40
9:CI:219:LYS:O	9:CI:228:SER:HB2	2.21	0.40
14:CN:171:ARG:HE	14:CN:171:ARG:HB3	1.58	0.40
16:CP:114:ARG:HD3	16:CP:114:ARG:HA	1.92	0.40
17:CQ:89:SER:O	17:CQ:95:GLY:HA3	2.21	0.40
19:CS:155:MET:HA	19:CS:161:LYS:HB2	2.04	0.40
20:CT:154:ALA:O	20:CT:158:GLU:N	2.50	0.40
27:CZ:63:ILE:HA	27:CZ:86:VAL:HG13	2.04	0.40
28:DA:39:LEU:HD22	28:DA:43:TYR:CE2	2.57	0.40
28:DA:48:LEU:HD23	28:DA:48:LEU:HA	1.89	0.40
30:DC:4:ARG:HG2	30:DC:5:PHE:CD1	2.56	0.40
38:DK:93:ILE:O	38:DK:97:SER:HB3	2.22	0.40
39:DL:16:HIS:HD2	39:DL:28:HIS:HA	1.87	0.40
39:DL:19:CYS:HA	39:DL:27:PHE:HB2	2.01	0.40
42:DO:103:LEU:HA	42:DO:103:LEU:HD23	1.83	0.40
43:DP:1:MET:HE2	43:DP:5:TRP:HB2	2.03	0.40
47:p0:42:ARG:HA	47:p0:42:ARG:HD2	1.93	0.40
48:sM:52:PRO:O	48:sM:54:PRO:HD3	2.21	0.40
25:A:249:U:H5	60:M:34:TRP:CZ2	2.40	0.40
25:A:260:U:H6	25:A:260:U:H2'	1.75	0.40
25:A:704:C:O2	25:A:705:U:H1'	2.21	0.40
25:A:728:U:O2	25:A:728:U:H2'	2.20	0.40
25:A:736:C:N4	25:A:737:A:N7	2.70	0.40
51:D:174:ARG:HA	51:D:195:ASP:CG	2.47	0.40
55:H:102:VAL:HA	55:H:106:LEU:HD11	2.02	0.40
59:L:28:ASN:OD1	59:L:28:ASN:N	2.54	0.40
59:L:68:LEU:HD12	59:L:69:THR:H	1.86	0.40
69:V:50:LEU:CD2	69:V:95:ALA:HB2	2.51	0.40
79:f:55:ARG:HB3	79:f:58:PRO:HG3	2.02	0.40
80:g:90:LYS:HB3	80:g:90:LYS:HE3	1.89	0.40
50:s1:205:PHE:CG	50:s1:206:PRO:HD2	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
51:s2:139:ILE:HD12	51:s2:191:ALA:HB1	2.03	0.40
51:s2:186:LYS:HD2	51:s2:186:LYS:HA	1.93	0.40
53:s4:117:GLU:C	53:s4:119:ALA:N	2.79	0.40
53:s4:173:ILE:HD13	53:s4:229:GLY:HA2	2.03	0.40
53:s4:189:LEU:HD12	53:s4:190:GLY:N	2.36	0.40
54:s5:140:THR:HG22	54:s5:211:ILE:HD13	2.04	0.40
56:s7:173:TYR:CE1	56:s7:181:ILE:HD11	2.56	0.40
61:c2:67:THR:C	61:c2:69:ALA:H	2.29	0.40
72:d3:63:GLN:OE1	72:d3:64:PRO:HA	2.22	0.40
74:d5:61:SER:H	74:d5:64:VAL:HB	1.85	0.40
83:e1:118:ARG:O	83:e1:119:ARG:HG2	2.20	0.40
1:1:835:G:HO2'	1:1:857:G:N2	2.13	0.40
1:1:1066:G:C6	1:1:1067:U:C4	3.10	0.40
1:1:1072:G:C4	1:1:1087:G:C2	3.09	0.40
1:1:1308:A:H8	1:1:1308:A:OP2	2.03	0.40
1:1:1494:U:P	41:AM:42:ARG:HH22	2.45	0.40
1:1:1536:G:N7	84:1:3413:OHX:N3	2.70	0.40
1:1:1637:A:OP2	29:AA:73:LYS:NZ	2.52	0.40
1:1:1933:A:H2'	1:1:1934:G:H5'	2.03	0.40
1:1:2180:G:H2'	1:1:2181:C:C6	2.57	0.40
1:1:2207:A:H2'	1:1:2208:A:C8	2.57	0.40
1:1:2219:A:H2'	1:1:2220:A:C8	2.56	0.40
1:1:2297:U:C2	1:1:2299:A:C6	3.10	0.40
1:1:2373:A:N7	1:1:2867:C:H1'	2.36	0.40
1:1:2945:G:H8	1:1:2950:G:O6	2.05	0.40
1:1:3385:U:C2	1:1:3386:G:C8	3.08	0.40
3:4:118:C:H2'	3:4:119:C:C6	2.56	0.40
6:l:74:ILE:O	6:l:76:ARG:HG2	2.21	0.40
10:p:56:VAL:O	10:p:60:ARG:HG3	2.22	0.40
11:q:8:GLN:HB2	11:q:55:VAL:CG2	2.51	0.40
13:s:40:LEU:HA	13:s:40:LEU:HD22	1.84	0.40
14:t:138:VAL:HB	37:AI:118:ILE:HB	2.04	0.40
16:v:92:LEU:HD13	16:v:92:LEU:HA	1.89	0.40
22:2:15:PHE:CE1	22:2:44:ALA:HB3	2.56	0.40
25:6:156:A:H2'	25:6:157:A:O4'	2.21	0.40
25:6:465:G:C5	25:6:466:U:C5	3.09	0.40
25:6:542:A:C8	25:6:543:C:H2'	2.56	0.40
25:6:898:A:N1	25:6:911:U:O2'	2.42	0.40
25:6:1037:C:H2'	25:6:1038:U:H6	1.86	0.40
25:6:1294:G:C2	25:6:1295:G:C8	3.10	0.40
25:6:1765:A:OP2	84:6:1982:OHX:N4	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
35:AG:23:ASN:O	35:AG:25:PRO:HD3	2.22	0.40
37:AI:96:GLU:H	37:AI:96:GLU:HG2	1.65	0.40
1:AR:28:C:C2	1:AR:57:A:C6	3.09	0.40
1:AR:643:U:O4	1:AR:644:G:C6	2.74	0.40
1:AR:730:C:C2	1:AR:740:G:C2	3.10	0.40
1:AR:950:G:C2	1:AR:1370:G:C6	3.09	0.40
1:AR:1054:A:H5''	1:AR:2637:A:H61	1.87	0.40
1:AR:1386:A:OP1	34:DG:80:LYS:HD3	2.21	0.40
1:AR:1700:G:C6	1:AR:1701:C:C4	3.09	0.40
1:AR:2124:G:C2	1:AR:2330:C:C2	3.10	0.40
1:AR:2260:U:H2'	1:AR:2261:G:O4'	2.22	0.40
1:AR:2288:G:H5''	1:AR:2289:U:OP2	2.22	0.40
1:AR:2677:G:H2'	1:AR:2679:A:C2	2.56	0.40
1:AR:2862:U:H2'	1:AR:2863:G:O4'	2.21	0.40
1:AR:2992:U:H1'	18:CR:69:ARG:NH2	2.36	0.40
1:AR:3160:U:C2	1:AR:3291:G:N2	2.89	0.40
5:CE:152:LYS:HG3	5:CE:192:VAL:HG11	2.04	0.40
8:CH:28:GLN:OE1	8:CH:57:HIS:NE2	2.54	0.40
11:CK:85:GLY:O	11:CK:186:PHE:HA	2.22	0.40
11:CK:124:ARG:HB3	11:CK:164:ILE:HD12	2.03	0.40
11:CK:159:ALA:HA	11:CK:162:GLN:HB3	2.03	0.40
14:CN:36:ARG:O	14:CN:39:ARG:N	2.54	0.40
17:CQ:8:VAL:O	17:CQ:118:VAL:HG13	2.22	0.40
17:CQ:47:PHE:CD1	17:CQ:47:PHE:C	2.99	0.40
19:CS:87:VAL:O	19:CS:107:THR:HG23	2.21	0.40
19:CS:170:ARG:O	19:CS:171:LYS:HB2	2.20	0.40
22:CV:139:ARG:HB3	22:CV:139:ARG:HH21	1.86	0.40
29:DB:109:GLU:O	29:DB:113:VAL:HG23	2.20	0.40
30:DC:77:LYS:C	30:DC:79:TRP:N	2.79	0.40
33:DF:17:HIS:HB2	33:DF:69:TYR:HB3	2.04	0.40
35:DH:90:PRO:C	35:DH:92:LYS:N	2.78	0.40
38:DK:74:LYS:HD2	38:DK:80:PHE:CD1	2.50	0.40
39:DL:14:LYS:HZ1	41:DN:51:ILE:HG13	1.86	0.40
40:DM:20:VAL:HG12	40:DM:73:LEU:HD11	2.02	0.40
45:DR:29:LEU:HA	45:DR:29:LEU:HD23	1.74	0.40
25:A:126:A:OP2	55:H:197:ASN:ND2	2.54	0.40
25:A:478:A:O4'	58:K:127:VAL:HG21	2.21	0.40
25:A:524:U:H1'	25:A:527:A:N7	2.36	0.40
25:A:811:A:N7	56:I:111:LYS:HB2	2.37	0.40
25:A:850:A:C2	25:A:851:U:C2	3.10	0.40
25:A:890:C:H2'	25:A:891:A:H8	1.87	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:1101:G:H5''	71:X:76:SER:HB3	2.03	0.40
25:A:1219:A:O2'	59:L:48:SER:HA	2.22	0.40
25:A:1335:U:H2'	25:A:1336:A:H8	1.85	0.40
25:A:1385:G:N7	84:A:2010:OHX:N3	2.69	0.40
25:A:1451:C:H2'	25:A:1452:U:H6	1.87	0.40
25:A:1459:C:N4	67:T:139:LYS:HE3	2.33	0.40
51:D:140:ARG:HD3	51:D:222:TYR:CE1	2.56	0.40
55:H:148:SER:O	55:H:148:SER:OG	2.34	0.40
58:K:82:ARG:O	58:K:150:LEU:HB2	2.22	0.40
61:N:68:GLU:C	61:N:70:ASN:H	2.30	0.40
61:N:73:LYS:HD2	80:g:108:VAL:HG21	2.04	0.40
62:O:130:ARG:HG3	62:O:137:PRO:HA	2.04	0.40
66:S:21:TYR:N	66:S:22:PRO:HD2	2.37	0.40
68:U:18:TYR:O	68:U:22:LEU:HD22	2.21	0.40
70:W:15:ARG:HH12	70:W:33:GLN:HB2	1.85	0.40
73:Z:112:LYS:HE2	73:Z:112:LYS:HB3	1.90	0.40
52:s3:220:PRO:HB3	81:sR:221:MET:HE1	2.02	0.40
56:s7:77:LEU:O	56:s7:81:LEU:N	2.43	0.40
57:s8:66:SER:O	57:s8:183:ILE:HG23	2.21	0.40
64:c5:85:ILE:CD1	64:c5:111:MET:HB3	2.52	0.40
82:c7:95:ARG:N	82:c7:96:SER:HA	2.35	0.40
67:c8:113:LEU:O	67:c8:116:LEU:HD23	2.22	0.40
71:d2:26:LEU:HD22	71:d2:62:VAL:HG22	2.04	0.40
74:d5:42:LEU:HD23	74:d5:42:LEU:HA	1.86	0.40
74:d5:58:ARG:HA	74:d5:103:ARG:HB2	2.03	0.40
1:1:156:G:O2'	1:1:157:A:H4'	2.20	0.40
1:1:383:G:O6	84:1:3631:OHX:N3	2.55	0.40
1:1:568:G:H2'	1:1:569:A:O4'	2.21	0.40
1:1:661:G:OP1	30:AB:12:ARG:NH2	2.55	0.40
1:1:860:G:N7	4:j:181:LYS:HB2	2.36	0.40
1:1:1129:A:C6	1:1:1130:A:C6	3.10	0.40
1:1:1227:C:H5'	1:1:1228:C:OP2	2.21	0.40
1:1:1517:G:H2'	1:1:1518:U:H6	1.87	0.40
1:1:2147:A:O3'	4:j:197:PRO:HB2	2.22	0.40
1:1:2338:C:O2'	24:l:249:LEU:HB2	2.22	0.40
1:1:2712:U:H2'	1:1:2713:U:C6	2.56	0.40
4:j:20:THR:HA	4:j:23:ARG:CD	2.39	0.40
4:j:204:MET:HG3	4:j:209:HIS:HB2	2.04	0.40
6:l:194:TYR:CD1	6:l:194:TYR:N	2.90	0.40
6:l:311:HIS:HE1	6:l:314:LYS:HB2	1.87	0.40
7:m:86:TYR:CG	7:m:247:ILE:HG13	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:o:127:LEU:HD23	9:o:127:LEU:HA	1.90	0.40
9:o:228:SER:HA	9:o:232:ARG:HH21	1.86	0.40
12:r:216:TYR:CG	12:r:217:PHE:N	2.89	0.40
13:s:148:VAL:CG1	13:s:152:HIS:HB3	2.51	0.40
17:w:147:TRP:CZ2	17:w:149:TYR:O	2.74	0.40
25:6:375:U:H2'	25:6:376:C:C6	2.57	0.40
25:6:524:U:H2'	25:6:526:A:OP2	2.22	0.40
25:6:763:G:C5	25:6:764:U:C4	3.09	0.40
25:6:1113:A:H4'	25:6:1114:G:OP1	2.22	0.40
25:6:1228:G:N3	25:6:1228:G:H2'	2.36	0.40
25:6:1269:U:C2	25:6:1432:U:O4'	2.75	0.40
25:6:1548:G:H5'	67:c8:89:GLN:O	2.21	0.40
29:AA:5:LEU:HD23	29:AA:5:LEU:HA	1.69	0.40
29:AA:25:ILE:HG23	29:AA:41:ALA:HB1	2.04	0.40
33:AE:98:VAL:HG21	33:AE:104:LEU:HD11	2.04	0.40
34:AF:25:TYR:HB2	34:AF:28:VAL:HG23	2.03	0.40
1:AR:5:G:C2	3:AT:155:A:C2	3.09	0.40
1:AR:1049:C:C2	1:AR:1050:U:C5	3.08	0.40
1:AR:1130:A:N7	1:AR:1132:C:C2	2.90	0.40
1:AR:1131:G:C4	1:AR:2373:A:C2	3.10	0.40
1:AR:1226:G:H2'	1:AR:1227:C:C6	2.57	0.40
1:AR:1298:C:OP2	84:AR:3517:OHX:N2	2.55	0.40
1:AR:1480:G:O2'	1:AR:1871:U:O4	2.34	0.40
1:AR:1591:G:O2'	1:AR:1799:A:N1	2.49	0.40
1:AR:1789:G:O6	84:AR:3696:OHX:N1	2.54	0.40
1:AR:2105:G:H2'	1:AR:2106:A:H8	1.85	0.40
1:AR:2251:G:O6	84:AR:3448:OHX:N6	2.54	0.40
1:AR:2630:C:C5	22:CV:4:SER:HB2	2.57	0.40
1:AR:2640:A:C5	1:AR:2641:U:C5	3.10	0.40
1:AR:2662:G:H2'	1:AR:2663:G:O4'	2.21	0.40
1:AR:2718:U:H2'	1:AR:2719:U:C6	2.56	0.40
5:CE:293:ASN:CB	5:CE:305:ILE:HG13	2.51	0.40
6:CF:26:PHE:CD1	6:CF:130:ALA:HB2	2.56	0.40
11:CK:7:GLU:CD	11:CK:54:LYS:HD2	2.46	0.40
12:CL:191:LYS:O	12:CL:197:VAL:HG22	2.22	0.40
13:CM:9:MET:O	13:CM:9:MET:HG3	2.20	0.40
29:DB:46:ILE:HD11	29:DB:48:ARG:O	2.22	0.40
29:DB:48:ARG:HB3	29:DB:69:LYS:HB3	2.03	0.40
32:DE:15:ALA:O	32:DE:18:ILE:HG22	2.21	0.40
32:DE:19:LYS:H	32:DE:19:LYS:HG2	1.76	0.40
35:DH:85:PHE:CD2	35:DH:89:LEU:HD21	2.57	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
25:A:312:A:C2	25:A:314:C:H2'	2.57	0.40
25:A:526:A:H2'	25:A:527:A:O4'	2.22	0.40
25:A:565:C:O2	84:A:1917:OHX:N5	2.54	0.40
25:A:744:U:N3	25:A:808:U:O2	2.55	0.40
25:A:1171:A:H2'	25:A:1172:G:C8	2.57	0.40
25:A:1251:U:H4'	80:g:133:ALA:HB1	2.03	0.40
25:A:1546:G:H21	67:T:87:ASN:HB2	1.87	0.40
25:A:1636:C:C2	25:A:1638:G:C5	3.10	0.40
49:B:154:GLU:O	49:B:155:PHE:HB2	2.21	0.40
53:F:31:PRO:HG2	53:F:38:LEU:HD13	2.02	0.40
56:I:152:VAL:O	56:I:183:PHE:HA	2.22	0.40
58:K:4:ALA:HA	58:K:5:PRO:HD3	1.90	0.40
59:L:16:PHE:CD1	59:L:76:LEU:HD23	2.56	0.40
61:N:105:LYS:H	61:N:113:ARG:CB	2.35	0.40
67:T:5:VAL:HG23	74:a:42:LEU:HD23	2.02	0.40
69:V:66:SER:HA	69:V:80:GLU:O	2.21	0.40
69:V:99:ILE:O	69:V:103:ILE:N	2.48	0.40
71:X:20:THR:OG1	71:X:22:LYS:HD3	2.21	0.40
81:h:80:ALA:HB3	81:h:92:TRP:HB2	2.03	0.40
81:h:86:ASP:O	81:h:87:LYS:HB2	2.21	0.40
50:s1:32:ILE:HD11	50:s1:46:THR:HB	2.02	0.40
52:s3:168:ILE:HD13	52:s3:187:LYS:HE2	2.04	0.40
53:s4:11:ARG:NH1	53:s4:20:LEU:HB3	2.36	0.40
56:s7:117:THR:HG22	56:s7:120:ALA:CB	2.52	0.40
57:s8:105:ASP:OD1	57:s8:107:THR:OG1	2.34	0.40
58:s9:99:LEU:HD12	58:s9:99:LEU:HA	1.97	0.40
64:c5:34:VAL:HG11	64:c5:45:PHE:CG	2.57	0.40
73:d4:35:VAL:HG13	73:d4:36:SER:N	2.37	0.40
73:d4:57:VAL:HB	73:d4:60:PHE:CE1	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	CD	250/252 (99%)	238 (95%)	12 (5%)	0	100	100
4	j	250/252 (99%)	232 (93%)	18 (7%)	0	100	100
5	CE	384/386 (100%)	355 (92%)	27 (7%)	2 (0%)	24	57
5	k	384/386 (100%)	351 (91%)	31 (8%)	2 (0%)	24	57
6	CF	359/361 (99%)	331 (92%)	28 (8%)	0	100	100
6	l	359/361 (99%)	326 (91%)	32 (9%)	1 (0%)	36	67
7	CG	294/296 (99%)	272 (92%)	22 (8%)	0	100	100
7	m	294/296 (99%)	271 (92%)	23 (8%)	0	100	100
8	CH	152/175 (87%)	144 (95%)	6 (4%)	2 (1%)	9	39
8	n	152/175 (87%)	145 (95%)	6 (4%)	1 (1%)	18	51
9	CI	220/222 (99%)	202 (92%)	15 (7%)	3 (1%)	9	38
9	o	220/222 (99%)	204 (93%)	13 (6%)	3 (1%)	9	38
10	CJ	231/233 (99%)	207 (90%)	21 (9%)	3 (1%)	9	39
10	p	231/233 (99%)	209 (90%)	18 (8%)	4 (2%)	7	35
11	CK	189/191 (99%)	178 (94%)	11 (6%)	0	100	100
11	q	189/191 (99%)	176 (93%)	12 (6%)	1 (0%)	24	57
12	CL	207/220 (94%)	195 (94%)	10 (5%)	2 (1%)	12	44
12	r	207/220 (94%)	199 (96%)	8 (4%)	0	100	100
13	CM	167/169 (99%)	146 (87%)	18 (11%)	3 (2%)	6	34
13	s	167/169 (99%)	149 (89%)	15 (9%)	3 (2%)	6	34
14	CN	191/193 (99%)	172 (90%)	18 (9%)	1 (0%)	24	57
14	t	191/193 (99%)	173 (91%)	15 (8%)	3 (2%)	7	36
15	CO	134/136 (98%)	125 (93%)	7 (5%)	2 (2%)	8	37
15	u	134/136 (98%)	122 (91%)	10 (8%)	2 (2%)	8	37
16	CP	201/203 (99%)	189 (94%)	12 (6%)	0	100	100
16	v	201/203 (99%)	189 (94%)	12 (6%)	0	100	100
17	CQ	195/197 (99%)	189 (97%)	4 (2%)	2 (1%)	12	44
17	w	195/197 (99%)	188 (96%)	4 (2%)	3 (2%)	8	37
18	CR	181/183 (99%)	166 (92%)	14 (8%)	1 (1%)	21	54
18	x	181/183 (99%)	170 (94%)	10 (6%)	1 (1%)	21	54
19	CS	183/185 (99%)	171 (93%)	11 (6%)	1 (0%)	24	57
19	y	183/185 (99%)	173 (94%)	9 (5%)	1 (0%)	24	57

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	CT	186/188 (99%)	172 (92%)	13 (7%)	1 (0%)	24	57
20	z	186/188 (99%)	178 (96%)	7 (4%)	1 (0%)	24	57
21	0	170/172 (99%)	154 (91%)	15 (9%)	1 (1%)	21	54
21	CU	170/172 (99%)	158 (93%)	12 (7%)	0	100	100
22	2	157/159 (99%)	144 (92%)	12 (8%)	1 (1%)	21	54
22	CV	157/159 (99%)	147 (94%)	9 (6%)	1 (1%)	21	54
23	5	98/100 (98%)	88 (90%)	9 (9%)	1 (1%)	12	44
23	CW	98/100 (98%)	89 (91%)	8 (8%)	1 (1%)	12	44
24	CX	134/136 (98%)	132 (98%)	2 (2%)	0	100	100
24	l2	134/136 (98%)	131 (98%)	3 (2%)	0	100	100
26	7	96/98 (98%)	85 (88%)	10 (10%)	1 (1%)	12	44
26	CY	96/98 (98%)	83 (86%)	11 (12%)	2 (2%)	5	31
27	8	119/121 (98%)	111 (93%)	8 (7%)	0	100	100
27	CZ	119/121 (98%)	111 (93%)	6 (5%)	2 (2%)	7	35
28	9	124/126 (98%)	120 (97%)	4 (3%)	0	100	100
28	DA	124/126 (98%)	120 (97%)	4 (3%)	0	100	100
29	AA	133/135 (98%)	123 (92%)	10 (8%)	0	100	100
29	DB	133/135 (98%)	121 (91%)	10 (8%)	2 (2%)	8	37
30	AB	146/148 (99%)	127 (87%)	17 (12%)	2 (1%)	9	38
30	DC	146/148 (99%)	130 (89%)	14 (10%)	2 (1%)	9	38
31	AC	56/58 (97%)	51 (91%)	4 (7%)	1 (2%)	6	34
31	DD	56/58 (97%)	51 (91%)	4 (7%)	1 (2%)	6	34
32	AD	95/97 (98%)	92 (97%)	3 (3%)	0	100	100
32	DE	95/97 (98%)	93 (98%)	2 (2%)	0	100	100
33	AE	107/109 (98%)	101 (94%)	5 (5%)	1 (1%)	14	47
33	DF	107/109 (98%)	103 (96%)	3 (3%)	1 (1%)	14	47
34	AF	125/127 (98%)	122 (98%)	3 (2%)	0	100	100
34	DG	125/127 (98%)	119 (95%)	6 (5%)	0	100	100
35	AG	104/106 (98%)	98 (94%)	4 (4%)	2 (2%)	6	33
35	DH	104/106 (98%)	97 (93%)	6 (6%)	1 (1%)	12	44
36	AH	110/112 (98%)	104 (94%)	4 (4%)	2 (2%)	6	34

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	DI	110/112 (98%)	104 (94%)	6 (6%)	0	100	100
37	AI	117/119 (98%)	111 (95%)	6 (5%)	0	100	100
37	DJ	117/119 (98%)	111 (95%)	6 (5%)	0	100	100
38	AJ	97/99 (98%)	83 (86%)	13 (13%)	1 (1%)	12	44
38	DK	97/99 (98%)	86 (89%)	10 (10%)	1 (1%)	12	44
39	AK	85/87 (98%)	77 (91%)	8 (9%)	0	100	100
39	DL	85/87 (98%)	78 (92%)	7 (8%)	0	100	100
40	AL	75/77 (97%)	74 (99%)	1 (1%)	0	100	100
40	DM	75/77 (97%)	68 (91%)	6 (8%)	1 (1%)	9	39
41	AM	48/50 (96%)	46 (96%)	2 (4%)	0	100	100
41	DN	48/50 (96%)	46 (96%)	2 (4%)	0	100	100
42	AN	50/52 (96%)	45 (90%)	5 (10%)	0	100	100
42	DO	50/52 (96%)	46 (92%)	4 (8%)	0	100	100
43	AO	23/25 (92%)	22 (96%)	1 (4%)	0	100	100
43	DP	23/25 (92%)	23 (100%)	0	0	100	100
44	AP	103/105 (98%)	91 (88%)	12 (12%)	0	100	100
44	DQ	103/105 (98%)	90 (87%)	12 (12%)	1 (1%)	12	44
45	AQ	89/91 (98%)	77 (86%)	12 (14%)	0	100	100
45	DR	89/91 (98%)	83 (93%)	6 (7%)	0	100	100
46	i	155/168 (92%)	129 (83%)	23 (15%)	3 (2%)	6	33
47	p0	139/220 (63%)	130 (94%)	8 (6%)	1 (1%)	18	51
48	sM	61/104 (59%)	47 (77%)	13 (21%)	1 (2%)	7	36
49	B	204/206 (99%)	175 (86%)	26 (13%)	3 (2%)	8	37
49	s0	204/206 (99%)	184 (90%)	17 (8%)	3 (2%)	8	37
50	C	212/216 (98%)	175 (82%)	35 (16%)	2 (1%)	14	47
50	s1	214/216 (99%)	196 (92%)	18 (8%)	0	100	100
51	D	215/217 (99%)	196 (91%)	18 (8%)	1 (0%)	24	57
51	s2	215/217 (99%)	199 (93%)	13 (6%)	3 (1%)	9	38
52	E	221/223 (99%)	198 (90%)	21 (10%)	2 (1%)	14	47
52	s3	221/223 (99%)	198 (90%)	21 (10%)	2 (1%)	14	47
53	F	258/260 (99%)	236 (92%)	20 (8%)	2 (1%)	16	49

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
53	s4	258/260 (99%)	233 (90%)	24 (9%)	1 (0%)	30	62
54	G	204/206 (99%)	179 (88%)	22 (11%)	3 (2%)	8	37
54	s5	204/206 (99%)	183 (90%)	21 (10%)	0	100	100
55	H	224/226 (99%)	207 (92%)	13 (6%)	4 (2%)	6	34
55	s6	216/226 (96%)	200 (93%)	14 (6%)	2 (1%)	14	47
56	I	182/186 (98%)	160 (88%)	17 (9%)	5 (3%)	4	27
56	s7	184/186 (99%)	162 (88%)	19 (10%)	3 (2%)	7	36
57	J	184/199 (92%)	160 (87%)	23 (12%)	1 (0%)	24	57
57	s8	184/199 (92%)	167 (91%)	15 (8%)	2 (1%)	11	43
58	K	183/185 (99%)	162 (88%)	19 (10%)	2 (1%)	11	43
58	s9	183/185 (99%)	172 (94%)	11 (6%)	0	100	100
59	L	94/105 (90%)	78 (83%)	14 (15%)	2 (2%)	5	31
59	c0	92/105 (88%)	63 (68%)	20 (22%)	9 (10%)	0	6
60	M	153/155 (99%)	138 (90%)	12 (8%)	3 (2%)	6	32
60	c1	144/155 (93%)	133 (92%)	10 (7%)	1 (1%)	18	51
61	N	122/124 (98%)	86 (70%)	30 (25%)	6 (5%)	1	16
61	c2	122/124 (98%)	91 (75%)	28 (23%)	3 (2%)	4	28
62	O	148/150 (99%)	134 (90%)	13 (9%)	1 (1%)	18	51
62	c3	148/150 (99%)	132 (89%)	15 (10%)	1 (1%)	18	51
63	P	125/128 (98%)	111 (89%)	13 (10%)	1 (1%)	16	49
63	c4	126/128 (98%)	114 (90%)	12 (10%)	0	100	100
64	Q	122/141 (86%)	107 (88%)	13 (11%)	2 (2%)	7	36
64	c5	133/141 (94%)	107 (80%)	24 (18%)	2 (2%)	8	37
65	R	139/142 (98%)	122 (88%)	14 (10%)	3 (2%)	5	30
65	c6	140/142 (99%)	132 (94%)	8 (6%)	0	100	100
66	S	116/125 (93%)	99 (85%)	13 (11%)	4 (3%)	3	23
67	T	143/145 (99%)	127 (89%)	13 (9%)	3 (2%)	5	31
67	c8	143/145 (99%)	121 (85%)	18 (13%)	4 (3%)	4	26
68	U	141/143 (99%)	129 (92%)	12 (8%)	0	100	100
68	c9	141/143 (99%)	129 (92%)	11 (8%)	1 (1%)	18	51
69	V	105/110 (96%)	93 (89%)	12 (11%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
69	d0	108/110 (98%)	92 (85%)	14 (13%)	2 (2%)	6	33
70	W	85/87 (98%)	76 (89%)	8 (9%)	1 (1%)	10	41
70	d1	85/87 (98%)	78 (92%)	7 (8%)	0	100	100
71	X	127/129 (98%)	120 (94%)	6 (5%)	1 (1%)	16	49
71	d2	127/129 (98%)	117 (92%)	9 (7%)	1 (1%)	16	49
72	Y	142/144 (99%)	119 (84%)	21 (15%)	2 (1%)	9	38
72	d3	142/144 (99%)	131 (92%)	11 (8%)	0	100	100
73	Z	132/134 (98%)	121 (92%)	9 (7%)	2 (2%)	8	37
73	d4	132/134 (98%)	119 (90%)	10 (8%)	3 (2%)	5	30
74	a	68/70 (97%)	56 (82%)	10 (15%)	2 (3%)	3	26
74	d5	67/70 (96%)	59 (88%)	8 (12%)	0	100	100
75	b	95/97 (98%)	68 (72%)	24 (25%)	3 (3%)	3	24
75	d6	95/97 (98%)	76 (80%)	19 (20%)	0	100	100
76	c	79/81 (98%)	71 (90%)	7 (9%)	1 (1%)	9	39
76	d7	79/81 (98%)	75 (95%)	3 (4%)	1 (1%)	9	39
77	d	61/63 (97%)	50 (82%)	11 (18%)	0	100	100
77	d8	61/63 (97%)	50 (82%)	11 (18%)	0	100	100
78	d9	51/53 (96%)	46 (90%)	4 (8%)	1 (2%)	6	32
78	e	51/53 (96%)	45 (88%)	6 (12%)	0	100	100
79	e0	60/62 (97%)	50 (83%)	8 (13%)	2 (3%)	3	23
79	f	58/62 (94%)	50 (86%)	7 (12%)	1 (2%)	7	35
80	g	69/71 (97%)	44 (64%)	19 (28%)	6 (9%)	0	7
81	h	316/318 (99%)	292 (92%)	23 (7%)	1 (0%)	36	67
81	sR	316/318 (99%)	292 (92%)	24 (8%)	0	100	100
82	c7	113/121 (93%)	102 (90%)	8 (7%)	3 (3%)	4	27
83	e1	49/51 (96%)	40 (82%)	9 (18%)	0	100	100
All	All	22260/22868 (97%)	20206 (91%)	1851 (8%)	203 (1%)	14	47

All (203) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
8	n	98	VAL
10	p	36	ILE

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Mol	Chain	Res	Type
11	q	50	ASN
30	AB	48	TYR
46	i	167	PRO
8	CH	98	VAL
15	CO	8	LYS
17	CQ	111	PRO
58	K	134	ILE
59	L	88	PRO
61	N	126	TRP
66	S	85	VAL
66	S	86	PRO
71	X	83	ILE
73	Z	5	VAL
74	a	88	ILE
79	f	47	VAL
51	s2	164	SER
56	s7	67	LEU
59	c0	88	PRO
59	c0	97	PRO
62	c3	66	ILE
68	c9	34	VAL
71	d2	6	VAL
76	d7	59	CYS
17	w	111	PRO
18	x	156	ALA
19	y	99	THR
20	z	130	ASN
12	CL	25	ALA
22	CV	124	VAL
26	CY	82	ILE
29	DB	4	PHE
29	DB	18	TYR
40	DM	19	ASP
44	DQ	78	LYS
50	C	62	LYS
56	I	111	LYS
60	M	7	VAL
60	M	8	GLN
66	S	88	VAL
66	S	124	VAL
75	b	75	VAL
76	c	62	ILE

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Mol	Chain	Res	Type
80	g	98	VAL
49	s0	189	VAL
52	s3	222	VAL
56	s7	63	PRO
59	c0	82	LEU
61	c2	91	VAL
82	c7	105	GLN
73	d4	52	LYS
9	o	25	GLN
10	p	37	GLY
15	u	8	LYS
17	w	110	PRO
22	2	124	VAL
13	CM	173	ASP
17	CQ	110	PRO
18	CR	156	ALA
26	CY	96	LEU
49	B	4	PRO
52	E	222	VAL
54	G	58	LEU
54	G	64	VAL
55	H	149	LYS
55	H	151	ASP
56	I	74	GLN
58	K	93	LEU
60	M	6	THR
65	R	39	VAL
65	R	113	ASP
73	Z	35	VAL
80	g	101	ALA
55	s6	70	PRO
82	c7	99	VAL
5	k	174	LYS
9	o	164	SER
10	p	123	GLN
13	s	8	PRO
14	t	47	ALA
26	7	96	LEU
35	AG	91	ALA
35	AG	104	PRO
36	AH	46	ASP
9	CI	24	GLU

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Mol	Chain	Res	Type
9	CI	163	LEU
30	DC	48	TYR
35	DH	91	ALA
49	B	203	PHE
51	D	147	ASN
52	E	217	ILE
57	J	152	ILE
61	N	106	ILE
64	Q	126	VAL
67	T	91	ASP
70	W	82	VAL
80	g	102	VAL
52	s3	217	ILE
60	c1	7	VAL
61	c2	106	ILE
64	c5	128	HIS
82	c7	104	ASN
6	l	90	PHE
13	s	114	ILE
14	t	18	TRP
14	t	166	ALA
30	AB	47	LYS
5	CE	187	SER
8	CH	97	ASN
13	CM	8	PRO
14	CN	47	ALA
20	CT	131	ALA
30	DC	78	LEU
55	H	70	PRO
59	L	60	SER
61	N	109	GLU
64	Q	125	PRO
67	T	144	ARG
56	s7	64	VAL
59	c0	2	LEU
67	c8	8	GLN
67	c8	9	GLY
13	s	165	GLN
9	CI	25	GLN
10	CJ	36	ILE
10	CJ	123	GLN
10	CJ	157	VAL

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Mol	Chain	Res	Type
12	CL	24	ARG
19	CS	99	THR
27	CZ	48	SER
53	F	144	GLY
53	F	195	ILE
56	I	5	GLN
61	N	128	ALA
72	Y	3	LYS
72	Y	30	LYS
80	g	88	PRO
59	c0	32	HIS
59	c0	83	PRO
69	d0	118	VAL
73	d4	30	PRO
73	d4	35	VAL
79	e0	47	VAL
9	o	26	VAL
10	p	157	VAL
38	AJ	3	VAL
13	CM	114	ILE
80	g	84	VAL
59	c0	35	ILE
59	c0	96	ASN
69	d0	51	VAL
78	d9	6	VAL
36	AH	12	PRO
46	i	166	VAL
15	CO	6	ILE
47	p0	33	VAL
49	B	158	VAL
55	H	69	LEU
56	I	32	PRO
61	N	91	VAL
63	P	42	VAL
80	g	87	THR
49	s0	158	VAL
57	s8	78	ILE
57	s8	101	ILE
79	e0	60	PRO
15	u	6	ILE
33	AE	7	VAL
23	CW	11	ILE

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Mol	Chain	Res	Type
27	CZ	62	VAL
33	DF	7	VAL
50	C	210	ILE
54	G	51	VAL
56	I	98	ILE
61	N	66	VAL
62	O	22	ALA
75	b	84	VAL
51	s2	163	GLY
59	c0	92	ILE
61	c2	115	VAL
5	k	317	ILE
17	w	16	VAL
21	0	167	ARG
23	5	11	ILE
46	i	12	VAL
5	CE	317	ILE
31	DD	21	ILE
65	R	97	VAL
67	T	14	ILE
74	a	71	ILE
75	b	86	VAL
81	h	6	VAL
49	s0	10	THR
53	s4	90	ILE
55	s6	69	LEU
64	c5	126	VAL
67	c8	14	ILE
31	AC	21	ILE
38	DK	3	VAL
48	sM	43	ASP
51	s2	121	VAL
67	c8	5	VAL

5.3.2 Protein sidechains ⓘ

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
4	CD	193/194 (100%)	165 (86%)	28 (14%)	3	17
4	j	193/194 (100%)	170 (88%)	23 (12%)	5	23
5	CE	319/322 (99%)	263 (82%)	56 (18%)	2	11
5	k	319/322 (99%)	256 (80%)	63 (20%)	1	8
6	CF	288/288 (100%)	252 (88%)	36 (12%)	4	22
6	l	288/288 (100%)	249 (86%)	39 (14%)	4	20
7	CG	244/244 (100%)	206 (84%)	38 (16%)	2	15
7	m	244/244 (100%)	215 (88%)	29 (12%)	5	23
8	CH	134/152 (88%)	117 (87%)	17 (13%)	4	21
8	n	134/152 (88%)	118 (88%)	16 (12%)	5	23
9	CI	186/186 (100%)	164 (88%)	22 (12%)	5	23
9	o	186/186 (100%)	166 (89%)	20 (11%)	6	26
10	CJ	187/191 (98%)	170 (91%)	17 (9%)	9	32
10	p	187/191 (98%)	169 (90%)	18 (10%)	8	30
11	CK	171/171 (100%)	137 (80%)	34 (20%)	1	7
11	q	171/171 (100%)	143 (84%)	28 (16%)	2	14
12	CL	177/186 (95%)	154 (87%)	23 (13%)	4	21
12	r	177/186 (95%)	150 (85%)	27 (15%)	3	16
13	CM	147/147 (100%)	121 (82%)	26 (18%)	2	10
13	s	147/147 (100%)	128 (87%)	19 (13%)	4	21
14	CN	154/154 (100%)	131 (85%)	23 (15%)	3	17
14	t	154/154 (100%)	133 (86%)	21 (14%)	3	19
15	CO	107/107 (100%)	87 (81%)	20 (19%)	1	9
15	u	107/107 (100%)	92 (86%)	15 (14%)	3	19
16	CP	175/175 (100%)	154 (88%)	21 (12%)	5	23
16	v	175/175 (100%)	151 (86%)	24 (14%)	3	19
17	CQ	160/160 (100%)	129 (81%)	31 (19%)	1	8
17	w	160/160 (100%)	135 (84%)	25 (16%)	2	15
18	CR	140/145 (97%)	112 (80%)	28 (20%)	1	7
18	x	140/145 (97%)	112 (80%)	28 (20%)	1	7
19	CS	150/150 (100%)	135 (90%)	15 (10%)	7	28
19	y	150/150 (100%)	130 (87%)	20 (13%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
20	CT	153/153 (100%)	130 (85%)	23 (15%)	3	17
20	z	153/153 (100%)	131 (86%)	22 (14%)	3	18
21	0	156/156 (100%)	138 (88%)	18 (12%)	5	24
21	CU	156/156 (100%)	130 (83%)	26 (17%)	2	13
22	2	136/136 (100%)	114 (84%)	22 (16%)	2	14
22	CV	136/136 (100%)	106 (78%)	30 (22%)	1	5
23	5	87/87 (100%)	76 (87%)	11 (13%)	4	21
23	CW	87/87 (100%)	79 (91%)	8 (9%)	8	32
24	CX	104/104 (100%)	91 (88%)	13 (12%)	4	22
24	l2	104/104 (100%)	91 (88%)	13 (12%)	4	22
26	7	57/86 (66%)	52 (91%)	5 (9%)	9	32
26	CY	57/86 (66%)	53 (93%)	4 (7%)	14	39
27	8	104/105 (99%)	82 (79%)	22 (21%)	1	6
27	CZ	104/105 (99%)	88 (85%)	16 (15%)	2	16
28	9	109/109 (100%)	97 (89%)	12 (11%)	6	26
28	DA	109/109 (100%)	96 (88%)	13 (12%)	5	23
29	AA	115/115 (100%)	104 (90%)	11 (10%)	8	30
29	DB	115/115 (100%)	102 (89%)	13 (11%)	5	25
30	AB	118/118 (100%)	107 (91%)	11 (9%)	8	31
30	DC	118/118 (100%)	106 (90%)	12 (10%)	7	28
31	AC	46/46 (100%)	40 (87%)	6 (13%)	4	21
31	DD	46/46 (100%)	40 (87%)	6 (13%)	4	21
32	AD	81/81 (100%)	71 (88%)	10 (12%)	4	22
32	DE	81/81 (100%)	75 (93%)	6 (7%)	13	37
33	AE	92/96 (96%)	80 (87%)	12 (13%)	4	21
33	DF	92/96 (96%)	73 (79%)	19 (21%)	1	6
34	AF	109/109 (100%)	92 (84%)	17 (16%)	2	15
34	DG	109/109 (100%)	94 (86%)	15 (14%)	3	19
35	AG	90/90 (100%)	81 (90%)	9 (10%)	7	28
35	DH	90/90 (100%)	81 (90%)	9 (10%)	7	28
36	AH	95/95 (100%)	79 (83%)	16 (17%)	2	13

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
36	DI	95/95 (100%)	78 (82%)	17 (18%)	2	10
37	AI	104/104 (100%)	90 (86%)	14 (14%)	4	20
37	DJ	104/104 (100%)	86 (83%)	18 (17%)	2	11
38	AJ	81/81 (100%)	68 (84%)	13 (16%)	2	14
38	DK	81/81 (100%)	66 (82%)	15 (18%)	1	9
39	AK	70/70 (100%)	61 (87%)	9 (13%)	4	21
39	DL	70/70 (100%)	60 (86%)	10 (14%)	3	18
40	AL	68/68 (100%)	57 (84%)	11 (16%)	2	14
40	DM	68/68 (100%)	59 (87%)	9 (13%)	4	20
41	AM	45/45 (100%)	39 (87%)	6 (13%)	4	20
41	DN	45/45 (100%)	42 (93%)	3 (7%)	15	41
42	AN	47/47 (100%)	40 (85%)	7 (15%)	3	17
42	DO	47/47 (100%)	43 (92%)	4 (8%)	10	34
43	AO	23/23 (100%)	17 (74%)	6 (26%)	0	3
43	DP	23/23 (100%)	19 (83%)	4 (17%)	2	11
44	AP	90/90 (100%)	75 (83%)	15 (17%)	2	13
44	DQ	90/90 (100%)	77 (86%)	13 (14%)	3	18
45	AQ	71/71 (100%)	60 (84%)	11 (16%)	2	15
45	DR	71/71 (100%)	60 (84%)	11 (16%)	2	15
46	i	97/137 (71%)	82 (84%)	15 (16%)	2	15
47	p0	105/186 (56%)	91 (87%)	14 (13%)	4	20
48	sM	54/54 (100%)	47 (87%)	7 (13%)	4	21
49	B	164/173 (95%)	149 (91%)	15 (9%)	9	32
49	s0	165/173 (95%)	145 (88%)	20 (12%)	5	22
50	C	191/192 (100%)	168 (88%)	23 (12%)	5	23
50	s1	192/192 (100%)	165 (86%)	27 (14%)	3	18
51	D	176/176 (100%)	149 (85%)	27 (15%)	3	16
51	s2	176/176 (100%)	140 (80%)	36 (20%)	1	7
52	E	182/182 (100%)	158 (87%)	24 (13%)	4	20
52	s3	182/182 (100%)	167 (92%)	15 (8%)	10	34
53	F	221/221 (100%)	192 (87%)	29 (13%)	4	20

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
53	s4	221/221 (100%)	186 (84%)	35 (16%)	2	15
54	G	173/173 (100%)	156 (90%)	17 (10%)	7	30
54	s5	173/173 (100%)	152 (88%)	21 (12%)	5	22
55	H	188/193 (97%)	171 (91%)	17 (9%)	9	32
55	s6	187/193 (97%)	160 (86%)	27 (14%)	3	18
56	I	165/166 (99%)	142 (86%)	23 (14%)	3	19
56	s7	165/166 (99%)	152 (92%)	13 (8%)	11	36
57	J	150/160 (94%)	130 (87%)	20 (13%)	4	20
57	s8	150/160 (94%)	130 (87%)	20 (13%)	4	20
58	K	158/158 (100%)	135 (85%)	23 (15%)	3	17
58	s9	158/158 (100%)	136 (86%)	22 (14%)	3	19
59	L	77/98 (79%)	68 (88%)	9 (12%)	5	24
59	c0	73/98 (74%)	66 (90%)	7 (10%)	8	30
60	M	129/136 (95%)	115 (89%)	14 (11%)	6	26
60	c1	129/136 (95%)	111 (86%)	18 (14%)	3	19
61	N	88/100 (88%)	74 (84%)	14 (16%)	2	14
61	c2	88/100 (88%)	70 (80%)	18 (20%)	1	7
62	O	127/127 (100%)	114 (90%)	13 (10%)	7	28
62	c3	127/127 (100%)	111 (87%)	16 (13%)	4	21
63	P	81/97 (84%)	62 (76%)	19 (24%)	1	4
63	c4	97/97 (100%)	84 (87%)	13 (13%)	4	20
64	Q	101/117 (86%)	90 (89%)	11 (11%)	6	26
64	c5	103/117 (88%)	91 (88%)	12 (12%)	5	24
65	R	117/118 (99%)	100 (86%)	17 (14%)	3	17
65	c6	118/118 (100%)	104 (88%)	14 (12%)	5	23
66	S	94/113 (83%)	85 (90%)	9 (10%)	8	30
67	T	128/128 (100%)	115 (90%)	13 (10%)	7	28
67	c8	128/128 (100%)	120 (94%)	8 (6%)	16	42
68	U	115/115 (100%)	95 (83%)	20 (17%)	2	11
68	c9	115/115 (100%)	106 (92%)	9 (8%)	11	36
69	V	100/103 (97%)	82 (82%)	18 (18%)	2	10

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
69	d0	103/103 (100%)	92 (89%)	11 (11%)	6	27
70	W	74/74 (100%)	63 (85%)	11 (15%)	3	17
70	d1	74/74 (100%)	65 (88%)	9 (12%)	5	22
71	X	110/110 (100%)	92 (84%)	18 (16%)	2	14
71	d2	110/110 (100%)	100 (91%)	10 (9%)	9	32
72	Y	119/119 (100%)	100 (84%)	19 (16%)	2	14
72	d3	119/119 (100%)	105 (88%)	14 (12%)	5	23
73	Z	112/112 (100%)	103 (92%)	9 (8%)	11	35
73	d4	112/112 (100%)	104 (93%)	8 (7%)	13	38
74	a	61/61 (100%)	50 (82%)	11 (18%)	2	10
74	d5	61/61 (100%)	55 (90%)	6 (10%)	7	30
75	b	83/83 (100%)	68 (82%)	15 (18%)	2	10
75	d6	83/83 (100%)	73 (88%)	10 (12%)	5	23
76	c	70/70 (100%)	65 (93%)	5 (7%)	13	38
76	d7	70/70 (100%)	63 (90%)	7 (10%)	7	28
77	d	56/56 (100%)	50 (89%)	6 (11%)	6	27
77	d8	56/56 (100%)	48 (86%)	8 (14%)	3	18
78	d9	47/47 (100%)	41 (87%)	6 (13%)	4	21
78	e	47/47 (100%)	43 (92%)	4 (8%)	10	34
79	e0	53/53 (100%)	41 (77%)	12 (23%)	1	5
79	f	51/53 (96%)	46 (90%)	5 (10%)	7	30
80	g	62/62 (100%)	57 (92%)	5 (8%)	11	35
81	h	259/261 (99%)	236 (91%)	23 (9%)	9	32
81	sR	260/261 (100%)	240 (92%)	20 (8%)	12	37
82	c7	92/110 (84%)	80 (87%)	12 (13%)	4	21
83	e1	43/43 (100%)	33 (77%)	10 (23%)	1	5
All	All	18681/19177 (97%)	16169 (87%)	2512 (13%)	4	20

All (2512) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	j	32	LEU
4	j	44	ILE

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Mol	Chain	Res	Type
4	j	45	VAL
4	j	62	VAL
4	j	72	ARG
4	j	74	GLU
4	j	88	ILE
4	j	96	LEU
4	j	98	VAL
4	j	101	VAL
4	j	116	VAL
4	j	118	GLU
4	j	134	VAL
4	j	139	HIS
4	j	142	ASP
4	j	157	VAL
4	j	165	VAL
4	j	179	LEU
4	j	204	MET
4	j	207	VAL
4	j	225	ILE
4	j	227	ARG
4	j	230	VAL
5	k	3	HIS
5	k	7	GLU
5	k	17	LEU
5	k	19	ARG
5	k	25	ILE
5	k	37	ARG
5	k	38	SER
5	k	55	THR
5	k	56	ILE
5	k	72	VAL
5	k	73	VAL
5	k	79	VAL
5	k	84	VAL
5	k	85	VAL
5	k	86	VAL
5	k	87	VAL
5	k	93	VAL
5	k	95	THR
5	k	100	ARG
5	k	103	THR
5	k	104	THR

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Mol	Chain	Res	Type
5	k	110	LEU
5	k	114	VAL
5	k	123	TYR
5	k	139	GLN
5	k	140	ASP
5	k	148	LEU
5	k	156	SER
5	k	157	VAL
5	k	166	ILE
5	k	169	THR
5	k	178	LEU
5	k	182	GLN
5	k	183	LEU
5	k	188	ILE
5	k	192	VAL
5	k	196	ARG
5	k	200	GLU
5	k	201	LYS
5	k	205	VAL
5	k	208	VAL
5	k	211	GLN
5	k	212	ASN
5	k	229	VAL
5	k	236	LYS
5	k	238	LEU
5	k	241	LYS
5	k	249	VAL
5	k	252	ILE
5	k	274	SER
5	k	284	ARG
5	k	291	GLU
5	k	296	THR
5	k	305	ILE
5	k	306	THR
5	k	308	MET
5	k	317	ILE
5	k	320	ASP
5	k	324	VAL
5	k	328	ILE
5	k	338	LEU
5	k	372	THR
5	k	385	LYS

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Mol	Chain	Res	Type
6	l	12	THR
6	l	40	THR
6	l	47	ARG
6	l	60	THR
6	l	63	GLU
6	l	74	ILE
6	l	92	ASN
6	l	93	MET
6	l	105	THR
6	l	133	SER
6	l	136	LEU
6	l	141	ARG
6	l	150	LEU
6	l	153	SER
6	l	156	LEU
6	l	176	SER
6	l	179	LEU
6	l	193	LYS
6	l	220	ARG
6	l	222	VAL
6	l	230	VAL
6	l	246	ARG
6	l	258	LEU
6	l	270	SER
6	l	278	SER
6	l	289	ILE
6	l	295	ILE
6	l	307	GLN
6	l	310	THR
6	l	312	VAL
6	l	313	LEU
6	l	319	LYS
6	l	327	LEU
6	l	332	LYS
6	l	333	VAL
6	l	338	LYS
6	l	347	THR
6	l	349	THR
6	l	356	THR
7	m	5	LYS
7	m	23	ARG
7	m	34	LYS

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Mol	Chain	Res	Type
7	m	41	LYS
7	m	58	LYS
7	m	80	SER
7	m	101	THR
7	m	105	ILE
7	m	110	LEU
7	m	112	LYS
7	m	113	LEU
7	m	115	LEU
7	m	125	VAL
7	m	131	LEU
7	m	132	THR
7	m	137	ASP
7	m	140	ARG
7	m	146	LEU
7	m	148	ILE
7	m	151	GLN
7	m	155	THR
7	m	163	LEU
7	m	213	ASP
7	m	222	LEU
7	m	234	ASP
7	m	257	GLU
7	m	258	LYS
7	m	259	LYS
7	m	279	LYS
8	n	5	LYS
8	n	13	GLU
8	n	15	VAL
8	n	35	VAL
8	n	52	VAL
8	n	64	LEU
8	n	65	ILE
8	n	84	VAL
8	n	88	SER
8	n	89	THR
8	n	93	VAL
8	n	98	VAL
8	n	129	GLU
8	n	134	ARG
8	n	146	ILE
8	n	155	LEU

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Mol	Chain	Res	Type
9	o	24	GLU
9	o	26	VAL
9	o	80	GLN
9	o	82	LYS
9	o	88	ARG
9	o	92	ILE
9	o	93	ASN
9	o	109	THR
9	o	111	ILE
9	o	121	LYS
9	o	123	THR
9	o	124	LEU
9	o	129	LEU
9	o	134	VAL
9	o	168	ILE
9	o	179	LEU
9	o	180	SER
9	o	183	ASP
9	o	184	LEU
9	o	239	LEU
10	p	27	THR
10	p	50	VAL
10	p	63	LYS
10	p	65	LEU
10	p	71	VAL
10	p	74	THR
10	p	79	GLN
10	p	81	THR
10	p	84	ARG
10	p	95	ASN
10	p	101	THR
10	p	136	LEU
10	p	150	LEU
10	p	156	ASP
10	p	157	VAL
10	p	169	LEU
10	p	190	VAL
10	p	194	THR
11	q	6	THR
11	q	16	VAL
11	q	18	VAL
11	q	19	SER

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Mol	Chain	Res	Type
11	q	20	ILE
11	q	24	ILE
11	q	33	THR
11	q	41	ILE
11	q	48	VAL
11	q	52	LEU
11	q	68	LEU
11	q	69	ARG
11	q	70	THR
11	q	92	TYR
11	q	121	LYS
11	q	132	VAL
11	q	135	GLU
11	q	138	THR
11	q	146	LEU
11	q	147	SER
11	q	151	VAL
11	q	157	ASN
11	q	161	LEU
11	q	162	GLN
11	q	164	ILE
11	q	172	ILE
11	q	173	ARG
11	q	189	GLU
12	r	3	ARG
12	r	7	ARG
12	r	21	ARG
12	r	24	ARG
12	r	26	VAL
12	r	30	LYS
12	r	32	ARG
12	r	35	ASP
12	r	48	LEU
12	r	52	LEU
12	r	57	LEU
12	r	62	SER
12	r	63	GLU
12	r	87	LEU
12	r	91	VAL
12	r	128	ARG
12	r	129	VAL
12	r	133	GLN

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Mol	Chain	Res	Type
12	r	138	VAL
12	r	139	ARG
12	r	163	GLN
12	r	165	ILE
12	r	174	THR
12	r	177	ASP
12	r	190	VAL
12	r	203	LYS
12	r	205	SER
13	s	10	ARG
13	s	13	LYS
13	s	25	GLU
13	s	40	LEU
13	s	44	THR
13	s	46	VAL
13	s	79	ILE
13	s	80	LEU
13	s	94	ARG
13	s	95	ASN
13	s	106	ILE
13	s	107	ASP
13	s	112	LEU
13	s	115	LYS
13	s	130	VAL
13	s	138	VAL
13	s	142	LYS
13	s	151	SER
13	s	154	THR
14	t	11	LYS
14	t	13	HIS
14	t	22	VAL
14	t	23	LYS
14	t	24	VAL
14	t	25	HIS
14	t	54	LEU
14	t	55	ARG
14	t	58	VAL
14	t	59	ARG
14	t	64	LYS
14	t	69	VAL
14	t	70	ARG
14	t	114	GLN

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Mol	Chain	Res	Type
14	t	117	LYS
14	t	123	ILE
14	t	124	ILE
14	t	125	VAL
14	t	131	LYS
14	t	164	GLU
14	t	168	ARG
15	u	5	SER
15	u	8	LYS
15	u	10	SER
15	u	15	VAL
15	u	20	VAL
15	u	38	ILE
15	u	53	VAL
15	u	58	ILE
15	u	63	VAL
15	u	72	LEU
15	u	90	VAL
15	u	91	CYS
15	u	108	ARG
15	u	133	LYS
15	u	135	LEU
16	v	15	GLN
16	v	18	VAL
16	v	19	LEU
16	v	22	LEU
16	v	68	ARG
16	v	70	ASN
16	v	80	THR
16	v	83	LYS
16	v	85	THR
16	v	92	LEU
16	v	98	LEU
16	v	101	THR
16	v	117	ASN
16	v	132	VAL
16	v	133	ILE
16	v	151	ILE
16	v	153	ASP
16	v	165	THR
16	v	182	ASN
16	v	183	THR

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Mol	Chain	Res	Type
16	v	187	ARG
16	v	188	ARG
16	v	201	ARG
16	v	204	LYS
17	w	8	VAL
17	w	33	ILE
17	w	41	LEU
17	w	44	SER
17	w	58	LEU
17	w	78	ARG
17	w	82	LYS
17	w	84	LEU
17	w	85	ARG
17	w	92	THR
17	w	94	ARG
17	w	103	LYS
17	w	106	GLU
17	w	108	ILE
17	w	110	PRO
17	w	115	LYS
17	w	117	ARG
17	w	119	VAL
17	w	124	LEU
17	w	126	VAL
17	w	128	ARG
17	w	129	LEU
17	w	137	THR
17	w	143	THR
17	w	184	THR
18	x	7	THR
18	x	8	SER
18	x	24	VAL
18	x	29	THR
18	x	36	ILE
18	x	41	LEU
18	x	42	THR
18	x	51	VAL
18	x	52	LEU
18	x	53	ASP
18	x	56	ARG
18	x	67	ILE
18	x	69	ARG

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Mol	Chain	Res	Type
18	x	91	VAL
18	x	112	LEU
18	x	118	GLN
18	x	119	VAL
18	x	120	ASN
18	x	127	ARG
18	x	129	THR
18	x	142	SER
18	x	144	SER
18	x	150	VAL
18	x	157	VAL
18	x	168	LEU
18	x	171	ARG
18	x	180	LYS
18	x	181	ARG
19	y	6	THR
19	y	22	ASP
19	y	27	LYS
19	y	32	LEU
19	y	41	ASP
19	y	49	LEU
19	y	57	ILE
19	y	69	ARG
19	y	74	GLU
19	y	81	VAL
19	y	122	ILE
19	y	129	VAL
19	y	135	GLN
19	y	138	LEU
19	y	147	ARG
19	y	150	VAL
19	y	152	HIS
19	y	161	LYS
19	y	178	ARG
19	y	181	SER
20	z	10	LEU
20	z	15	VAL
20	z	17	VAL
20	z	21	LYS
20	z	29	THR
20	z	41	ILE
20	z	42	ARG

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Mol	Chain	Res	Type
20	z	44	LEU
20	z	46	LYS
20	z	74	ARG
20	z	81	ARG
20	z	86	GLU
20	z	99	LEU
20	z	103	ARG
20	z	104	ARG
20	z	130	ASN
20	z	134	HIS
20	z	138	LEU
20	z	144	GLN
20	z	175	GLN
20	z	180	LYS
20	z	182	ASP
21	0	16	THR
21	0	19	VAL
21	0	45	LEU
21	0	50	LYS
21	0	51	VAL
21	0	58	ILE
21	0	61	ILE
21	0	71	LYS
21	0	80	ARG
21	0	87	THR
21	0	97	VAL
21	0	106	LEU
21	0	132	THR
21	0	137	ARG
21	0	138	GLN
21	0	155	ARG
21	0	157	GLN
21	0	167	ARG
22	2	16	GLN
22	2	18	ASP
22	2	25	VAL
22	2	27	LEU
22	2	52	MET
22	2	63	VAL
22	2	68	THR
22	2	75	ILE
22	2	78	LYS

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Mol	Chain	Res	Type
22	2	79	MET
22	2	80	VAL
22	2	83	ARG
22	2	96	ILE
22	2	98	HIS
22	2	104	GLU
22	2	126	VAL
22	2	128	LEU
22	2	131	GLN
22	2	139	ARG
22	2	141	VAL
22	2	149	GLN
22	2	158	THR
23	5	10	LYS
23	5	14	THR
23	5	35	LYS
23	5	39	ASP
23	5	43	VAL
23	5	52	ASN
23	5	66	VAL
23	5	85	LYS
23	5	93	ILE
23	5	100	THR
23	5	105	LEU
24	12	14	SER
24	12	22	ILE
24	12	46	LEU
24	12	54	LEU
24	12	58	VAL
24	12	70	ARG
24	12	73	VAL
24	12	78	VAL
24	12	89	ASP
24	12	95	PHE
24	12	102	ILE
24	12	104	ASN
24	12	120	LYS
26	7	4	GLU
26	7	5	ILE
26	7	19	THR
26	7	26	SER
26	7	43	ARG

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Mol	Chain	Res	Type
27	8	26	VAL
27	8	27	ARG
27	8	38	LEU
27	8	49	LYS
27	8	57	LEU
27	8	63	ILE
27	8	75	LYS
27	8	86	VAL
27	8	100	LYS
27	8	105	VAL
27	8	108	LEU
27	8	109	LYS
27	8	113	LEU
27	8	115	ARG
27	8	117	ASN
27	8	125	ARG
27	8	126	LEU
27	8	133	LEU
27	8	135	ILE
27	8	137	ASN
27	8	139	ILE
27	8	142	ILE
28	9	3	LYS
28	9	5	SER
28	9	17	LYS
28	9	37	LYS
28	9	42	GLN
28	9	56	VAL
28	9	57	LEU
28	9	64	LYS
28	9	88	GLU
28	9	113	LYS
28	9	115	ARG
28	9	126	LEU
29	AA	14	VAL
29	AA	24	VAL
29	AA	46	ILE
29	AA	74	VAL
29	AA	75	VAL
29	AA	81	LEU
29	AA	83	THR
29	AA	90	GLU

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Mol	Chain	Res	Type
29	AA	102	GLU
29	AA	107	ARG
29	AA	134	LEU
30	AB	4	ARG
30	AB	10	LYS
30	AB	22	ILE
30	AB	42	ARG
30	AB	43	ILE
30	AB	56	VAL
30	AB	78	LEU
30	AB	93	SER
30	AB	98	THR
30	AB	115	LYS
30	AB	137	LYS
31	AC	8	THR
31	AC	14	ARG
31	AC	25	LYS
31	AC	28	LYS
31	AC	31	SER
31	AC	59	LYS
32	AD	16	LEU
32	AD	32	LYS
32	AD	43	ILE
32	AD	48	THR
32	AD	54	SER
32	AD	61	MET
32	AD	76	GLU
32	AD	99	ASP
32	AD	101	LEU
32	AD	103	THR
33	AE	6	ASP
33	AE	8	VAL
33	AE	16	LEU
33	AE	24	SER
33	AE	55	LEU
33	AE	64	VAL
33	AE	68	GLU
33	AE	79	ARG
33	AE	86	LYS
33	AE	96	VAL
33	AE	106	THR
33	AE	110	GLU

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Mol	Chain	Res	Type
34	AF	19	ARG
34	AF	27	ARG
34	AF	33	ARG
34	AF	35	GLN
34	AF	51	SER
34	AF	54	LYS
34	AF	61	LYS
34	AF	67	SER
34	AF	73	THR
34	AF	75	LEU
34	AF	78	ASN
34	AF	82	LEU
34	AF	88	HIS
34	AF	106	VAL
34	AF	109	LEU
34	AF	125	ARG
34	AF	128	LEU
35	AG	20	LYS
35	AG	22	VAL
35	AG	28	SER
35	AG	37	THR
35	AG	48	ARG
35	AG	59	VAL
35	AG	80	VAL
35	AG	81	VAL
35	AG	98	VAL
36	AH	5	VAL
36	AH	15	THR
36	AH	16	ARG
36	AH	20	ILE
36	AH	22	VAL
36	AH	24	LYS
36	AH	29	ILE
36	AH	51	LEU
36	AH	57	LEU
36	AH	58	ARG
36	AH	65	VAL
36	AH	71	THR
36	AH	74	ARG
36	AH	83	ASN
36	AH	86	LYS
36	AH	100	ILE

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Mol	Chain	Res	Type
37	AI	20	GLN
37	AI	21	LEU
37	AI	27	GLU
37	AI	28	LEU
37	AI	31	LEU
37	AI	47	VAL
37	AI	71	LYS
37	AI	85	THR
37	AI	89	ARG
37	AI	90	ARG
37	AI	93	THR
37	AI	96	GLU
37	AI	102	GLU
37	AI	119	LYS
38	AJ	11	LEU
38	AJ	13	LYS
38	AJ	17	VAL
38	AJ	25	LYS
38	AJ	26	ILE
38	AJ	43	LEU
38	AJ	45	ARG
38	AJ	57	LEU
38	AJ	62	ARG
38	AJ	68	ARG
38	AJ	84	LYS
38	AJ	88	GLU
38	AJ	90	MET
39	AK	12	HIS
39	AK	24	ARG
39	AK	25	ARG
39	AK	36	SER
39	AK	44	THR
39	AK	55	ARG
39	AK	59	THR
39	AK	67	LEU
39	AK	69	HIS
40	AL	8	ILE
40	AL	24	THR
40	AL	31	LEU
40	AL	50	SER
40	AL	53	THR
40	AL	64	LYS

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Mol	Chain	Res	Type
40	AL	65	LEU
40	AL	67	GLN
40	AL	69	LEU
40	AL	72	THR
40	AL	77	ARG
41	AM	4	GLN
41	AM	5	LYS
41	AM	23	LEU
41	AM	34	THR
41	AM	45	ARG
41	AM	51	ILE
42	AN	78	ILE
42	AN	83	LYS
42	AN	85	LEU
42	AN	92	ASP
42	AN	113	ARG
42	AN	114	LYS
42	AN	127	LEU
43	AO	2	ARG
43	AO	4	LYS
43	AO	9	ARG
43	AO	10	THR
43	AO	11	ARG
43	AO	13	LEU
44	AP	3	ASN
44	AP	8	ARG
44	AP	21	THR
44	AP	35	LEU
44	AP	45	ARG
44	AP	48	SER
44	AP	60	LYS
44	AP	61	LYS
44	AP	64	THR
44	AP	78	LYS
44	AP	83	LEU
44	AP	84	THR
44	AP	85	LEU
44	AP	93	LEU
44	AP	102	GLN
45	AQ	7	LYS
45	AQ	11	THR
45	AQ	16	VAL

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Mol	Chain	Res	Type
45	AQ	25	GLN
45	AQ	31	ILE
45	AQ	56	THR
45	AQ	73	THR
45	AQ	78	THR
45	AQ	82	THR
45	AQ	84	ARG
45	AQ	91	GLU
46	i	33	LYS
46	i	34	LYS
46	i	46	LYS
46	i	61	ILE
46	i	64	LYS
46	i	68	ARG
46	i	84	LYS
46	i	91	THR
46	i	102	THR
46	i	106	VAL
46	i	116	GLU
46	i	117	LEU
46	i	126	ASP
46	i	130	GLU
46	i	131	ILE
4	CD	44	ILE
4	CD	45	VAL
4	CD	48	ILE
4	CD	62	VAL
4	CD	70	ARG
4	CD	74	GLU
4	CD	77	ILE
4	CD	82	VAL
4	CD	96	LEU
4	CD	98	VAL
4	CD	101	VAL
4	CD	104	LEU
4	CD	109	GLU
4	CD	113	VAL
4	CD	137	ILE
4	CD	157	VAL
4	CD	165	VAL
4	CD	180	LEU
4	CD	190	ARG

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Mol	Chain	Res	Type
4	CD	191	LEU
4	CD	199	THR
4	CD	204	MET
4	CD	207	VAL
4	CD	227	ARG
4	CD	243	THR
4	CD	246	LEU
4	CD	250	GLN
4	CD	252	THR
5	CE	4	ARG
5	CE	7	GLU
5	CE	25	ILE
5	CE	37	ARG
5	CE	44	THR
5	CE	47	LEU
5	CE	56	ILE
5	CE	73	VAL
5	CE	77	THR
5	CE	79	VAL
5	CE	81	THR
5	CE	85	VAL
5	CE	95	THR
5	CE	103	THR
5	CE	104	THR
5	CE	110	LEU
5	CE	112	ASP
5	CE	114	VAL
5	CE	139	GLN
5	CE	146	ARG
5	CE	160	VAL
5	CE	166	ILE
5	CE	169	THR
5	CE	183	LEU
5	CE	184	ASN
5	CE	188	ILE
5	CE	192	VAL
5	CE	200	GLU
5	CE	205	VAL
5	CE	211	GLN
5	CE	222	LYS
5	CE	230	THR
5	CE	232	ARG

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Mol	Chain	Res	Type
5	CE	235	THR
5	CE	238	LEU
5	CE	244	ARG
5	CE	249	VAL
5	CE	252	ILE
5	CE	274	SER
5	CE	284	ARG
5	CE	301	THR
5	CE	303	LYS
5	CE	305	ILE
5	CE	312	VAL
5	CE	317	ILE
5	CE	319	ASN
5	CE	324	VAL
5	CE	325	LYS
5	CE	328	ILE
5	CE	335	ILE
5	CE	346	THR
5	CE	348	ARG
5	CE	349	LYS
5	CE	354	VAL
5	CE	359	ILE
5	CE	380	MET
6	CF	12	THR
6	CF	22	LEU
6	CF	25	VAL
6	CF	47	ARG
6	CF	55	LYS
6	CF	63	GLU
6	CF	74	ILE
6	CF	93	MET
6	CF	103	THR
6	CF	133	SER
6	CF	136	LEU
6	CF	148	ILE
6	CF	151	VAL
6	CF	154	THR
6	CF	161	LYS
6	CF	179	LEU
6	CF	181	VAL
6	CF	187	LEU
6	CF	193	LYS

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Mol	Chain	Res	Type
6	CF	200	THR
6	CF	203	ARG
6	CF	206	LEU
6	CF	208	VAL
6	CF	222	VAL
6	CF	230	VAL
6	CF	246	ARG
6	CF	258	LEU
6	CF	278	SER
6	CF	292	SER
6	CF	312	VAL
6	CF	313	LEU
6	CF	316	ASN
6	CF	324	LEU
6	CF	327	LEU
6	CF	333	VAL
6	CF	346	LYS
7	CG	5	LYS
7	CG	13	SER
7	CG	22	ARG
7	CG	23	ARG
7	CG	35	ARG
7	CG	41	LYS
7	CG	69	ILE
7	CG	75	LEU
7	CG	85	ARG
7	CG	93	THR
7	CG	105	ILE
7	CG	110	LEU
7	CG	113	LEU
7	CG	118	THR
7	CG	122	VAL
7	CG	126	GLU
7	CG	131	LEU
7	CG	140	ARG
7	CG	146	LEU
7	CG	148	ILE
7	CG	151	GLN
7	CG	154	THR
7	CG	155	THR
7	CG	164	LYS
7	CG	177	GLU

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Mol	Chain	Res	Type
7	CG	179	ARG
7	CG	188	GLU
7	CG	190	ILE
7	CG	194	LEU
7	CG	220	SER
7	CG	232	ASP
7	CG	241	THR
7	CG	257	GLU
7	CG	258	LYS
7	CG	261	THR
7	CG	263	GLU
7	CG	279	LYS
7	CG	293	LEU
8	CH	12	SER
8	CH	15	VAL
8	CH	21	THR
8	CH	26	ARG
8	CH	28	GLN
8	CH	31	ARG
8	CH	46	ARG
8	CH	52	VAL
8	CH	64	LEU
8	CH	65	ILE
8	CH	78	ARG
8	CH	89	THR
8	CH	91	VAL
8	CH	129	GLU
8	CH	134	ARG
8	CH	152	THR
8	CH	155	LEU
9	CI	24	GLU
9	CI	26	VAL
9	CI	60	ARG
9	CI	77	VAL
9	CI	83	LEU
9	CI	88	ARG
9	CI	89	ILE
9	CI	92	ILE
9	CI	111	ILE
9	CI	121	LYS
9	CI	129	LEU
9	CI	147	LEU

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Mol	Chain	Res	Type
9	CI	158	LYS
9	CI	168	ILE
9	CI	173	LEU
9	CI	175	LYS
9	CI	179	LEU
9	CI	184	LEU
9	CI	191	VAL
9	CI	196	LYS
9	CI	225	GLN
9	CI	239	LEU
10	CJ	27	THR
10	CJ	50	VAL
10	CJ	65	LEU
10	CJ	71	VAL
10	CJ	74	THR
10	CJ	79	GLN
10	CJ	81	THR
10	CJ	93	LEU
10	CJ	136	LEU
10	CJ	156	ASP
10	CJ	169	LEU
10	CJ	172	LYS
10	CJ	180	VAL
10	CJ	194	THR
10	CJ	197	VAL
10	CJ	219	ASP
10	CJ	248	LYS
11	CK	5	GLN
11	CK	6	THR
11	CK	17	THR
11	CK	18	VAL
11	CK	19	SER
11	CK	22	SER
11	CK	33	THR
11	CK	34	LEU
11	CK	39	LYS
11	CK	41	ILE
11	CK	48	VAL
11	CK	52	LEU
11	CK	55	VAL
11	CK	68	LEU
11	CK	69	ARG

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Mol	Chain	Res	Type
11	CK	70	THR
11	CK	80	THR
11	CK	82	VAL
11	CK	92	TYR
11	CK	103	ILE
11	CK	107	ASP
11	CK	113	GLU
11	CK	122	LYS
11	CK	129	ARG
11	CK	137	SER
11	CK	151	VAL
11	CK	157	ASN
11	CK	161	LEU
11	CK	162	GLN
11	CK	164	ILE
11	CK	166	ARG
11	CK	170	LYS
11	CK	172	ILE
11	CK	173	ARG
12	CL	3	ARG
12	CL	21	ARG
12	CL	26	VAL
12	CL	28	ASP
12	CL	32	ARG
12	CL	40	LYS
12	CL	42	THR
12	CL	48	LEU
12	CL	52	LEU
12	CL	57	LEU
12	CL	63	GLU
12	CL	77	THR
12	CL	87	LEU
12	CL	90	ARG
12	CL	91	VAL
12	CL	100	ASN
12	CL	156	ARG
12	CL	165	ILE
12	CL	168	SER
12	CL	177	ASP
12	CL	196	PHE
12	CL	197	VAL
12	CL	215	GLU

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Mol	Chain	Res	Type
13	CM	10	ARG
13	CM	12	LEU
13	CM	13	LYS
13	CM	20	ASN
13	CM	22	SER
13	CM	28	ASP
13	CM	30	LEU
13	CM	40	LEU
13	CM	46	VAL
13	CM	51	ARG
13	CM	56	THR
13	CM	71	VAL
13	CM	80	LEU
13	CM	95	ASN
13	CM	106	ILE
13	CM	107	ASP
13	CM	112	LEU
13	CM	115	LYS
13	CM	130	VAL
13	CM	137	ARG
13	CM	142	LYS
13	CM	145	LYS
13	CM	148	VAL
13	CM	161	SER
13	CM	165	GLN
13	CM	166	LYS
14	CN	4	SER
14	CN	11	LYS
14	CN	13	HIS
14	CN	23	LYS
14	CN	24	VAL
14	CN	52	ASP
14	CN	53	LEU
14	CN	54	LEU
14	CN	58	VAL
14	CN	59	ARG
14	CN	63	VAL
14	CN	67	ARG
14	CN	117	LYS
14	CN	124	ILE
14	CN	131	LYS
14	CN	134	GLU

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Mol	Chain	Res	Type
14	CN	138	VAL
14	CN	140	SER
14	CN	153	ASP
14	CN	154	VAL
14	CN	164	GLU
14	CN	168	ARG
14	CN	169	THR
15	CO	4	ASP
15	CO	10	SER
15	CO	15	VAL
15	CO	16	GLU
15	CO	20	VAL
15	CO	23	ILE
15	CO	24	LYS
15	CO	38	ILE
15	CO	41	GLN
15	CO	45	LEU
15	CO	53	VAL
15	CO	60	LEU
15	CO	63	VAL
15	CO	66	THR
15	CO	90	VAL
15	CO	91	CYS
15	CO	92	GLU
15	CO	108	ARG
15	CO	128	ARG
15	CO	135	LEU
16	CP	10	LEU
16	CP	18	VAL
16	CP	22	LEU
16	CP	24	ARG
16	CP	43	THR
16	CP	64	VAL
16	CP	68	ARG
16	CP	80	THR
16	CP	83	LYS
16	CP	105	ARG
16	CP	106	VAL
16	CP	133	ILE
16	CP	138	GLN
16	CP	151	ILE
16	CP	153	ASP

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Mol	Chain	Res	Type
16	CP	155	VAL
16	CP	167	THR
16	CP	170	LYS
16	CP	171	SER
16	CP	183	THR
16	CP	188	ARG
17	CQ	3	VAL
17	CQ	22	VAL
17	CQ	25	LYS
17	CQ	33	ILE
17	CQ	34	VAL
17	CQ	41	LEU
17	CQ	67	THR
17	CQ	78	ARG
17	CQ	79	ILE
17	CQ	84	LEU
17	CQ	85	ARG
17	CQ	92	THR
17	CQ	102	LEU
17	CQ	106	GLU
17	CQ	110	PRO
17	CQ	115	LYS
17	CQ	117	ARG
17	CQ	118	VAL
17	CQ	124	LEU
17	CQ	126	VAL
17	CQ	128	ARG
17	CQ	134	LYS
17	CQ	138	LEU
17	CQ	140	LYS
17	CQ	142	SER
17	CQ	143	THR
17	CQ	160	ARG
17	CQ	180	SER
17	CQ	184	THR
17	CQ	190	VAL
17	CQ	192	LYS
18	CR	8	SER
18	CR	9	THR
18	CR	22	LEU
18	CR	23	ARG
18	CR	24	VAL

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Mol	Chain	Res	Type
18	CR	32	THR
18	CR	37	ASN
18	CR	41	LEU
18	CR	42	THR
18	CR	49	GLU
18	CR	51	VAL
18	CR	52	LEU
18	CR	55	GLN
18	CR	89	LYS
18	CR	94	LEU
18	CR	96	GLN
18	CR	111	LYS
18	CR	112	LEU
18	CR	114	VAL
18	CR	120	ASN
18	CR	142	SER
18	CR	144	SER
18	CR	150	VAL
18	CR	165	VAL
18	CR	166	VAL
18	CR	168	LEU
18	CR	175	ARG
18	CR	180	LYS
19	CS	11	LYS
19	CS	17	THR
19	CS	26	LEU
19	CS	32	LEU
19	CS	41	ASP
19	CS	55	SER
19	CS	67	ILE
19	CS	69	ARG
19	CS	81	VAL
19	CS	113	LYS
19	CS	127	LEU
19	CS	135	GLN
19	CS	138	LEU
19	CS	168	THR
19	CS	186	VAL
20	CT	10	LEU
20	CT	14	VAL
20	CT	41	ILE
20	CT	44	LEU

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Mol	Chain	Res	Type
20	CT	49	THR
20	CT	52	LYS
20	CT	57	VAL
20	CT	60	LYS
20	CT	61	SER
20	CT	74	ARG
20	CT	98	ARG
20	CT	99	LEU
20	CT	104	ARG
20	CT	108	LYS
20	CT	110	ARG
20	CT	138	LEU
20	CT	144	GLN
20	CT	148	ASP
20	CT	152	GLU
20	CT	153	LYS
20	CT	158	GLU
20	CT	166	ASN
20	CT	180	LYS
21	CU	1	MET
21	CU	16	THR
21	CU	45	LEU
21	CU	50	LYS
21	CU	51	VAL
21	CU	55	SER
21	CU	58	ILE
21	CU	61	ILE
21	CU	71	LYS
21	CU	79	VAL
21	CU	80	ARG
21	CU	87	THR
21	CU	88	HIS
21	CU	89	ASN
21	CU	96	ASP
21	CU	97	VAL
21	CU	100	VAL
21	CU	105	THR
21	CU	135	VAL
21	CU	136	LYS
21	CU	145	THR
21	CU	149	LYS
21	CU	155	ARG

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Mol	Chain	Res	Type
21	CU	156	VAL
21	CU	157	GLN
21	CU	162	THR
22	CV	3	LYS
22	CV	12	ARG
22	CV	17	ARG
22	CV	25	VAL
22	CV	27	LEU
22	CV	32	LYS
22	CV	36	VAL
22	CV	39	ILE
22	CV	63	VAL
22	CV	68	THR
22	CV	75	ILE
22	CV	78	LYS
22	CV	79	MET
22	CV	80	VAL
22	CV	83	ARG
22	CV	88	ARG
22	CV	96	ILE
22	CV	102	ARG
22	CV	103	GLN
22	CV	104	GLU
22	CV	106	LEU
22	CV	124	VAL
22	CV	126	VAL
22	CV	127	GLN
22	CV	128	LEU
22	CV	131	GLN
22	CV	139	ARG
22	CV	143	THR
22	CV	154	VAL
22	CV	160	ILE
23	CW	14	THR
23	CW	37	LEU
23	CW	43	VAL
23	CW	49	ASN
23	CW	72	SER
23	CW	88	GLN
23	CW	94	ARG
23	CW	100	THR
24	CX	13	ILE

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Mol	Chain	Res	Type
24	CX	22	ILE
24	CX	48	ARG
24	CX	58	VAL
24	CX	61	THR
24	CX	62	VAL
24	CX	74	MET
24	CX	81	GLN
24	CX	86	ARG
24	CX	88	ARG
24	CX	91	VAL
24	CX	102	ILE
24	CX	133	SER
26	CY	1	MET
26	CY	4	GLU
26	CY	17	ARG
26	CY	26	SER
27	CZ	26	VAL
27	CZ	27	ARG
27	CZ	37	THR
27	CZ	38	LEU
27	CZ	45	LYS
27	CZ	57	LEU
27	CZ	63	ILE
27	CZ	69	SER
27	CZ	71	THR
27	CZ	102	LEU
27	CZ	115	ARG
27	CZ	124	VAL
27	CZ	125	ARG
27	CZ	135	ILE
27	CZ	137	ASN
27	CZ	142	ILE
28	DA	4	GLN
28	DA	17	LYS
28	DA	28	ARG
28	DA	37	LYS
28	DA	45	ILE
28	DA	50	ILE
28	DA	56	VAL
28	DA	57	LEU
28	DA	67	GLU
28	DA	70	ILE

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Mol	Chain	Res	Type
28	DA	76	LEU
28	DA	115	ARG
28	DA	125	LYS
29	DB	14	VAL
29	DB	24	VAL
29	DB	26	VAL
29	DB	36	HIS
29	DB	46	ILE
29	DB	62	VAL
29	DB	81	LEU
29	DB	83	THR
29	DB	97	SER
29	DB	102	GLU
29	DB	103	GLN
29	DB	132	SER
29	DB	134	LEU
30	DC	8	THR
30	DC	10	LYS
30	DC	22	ILE
30	DC	42	ARG
30	DC	46	ASP
30	DC	56	VAL
30	DC	78	LEU
30	DC	85	ASP
30	DC	91	LEU
30	DC	115	LYS
30	DC	133	LEU
30	DC	148	ILE
31	DD	5	LYS
31	DD	21	ILE
31	DD	22	LYS
31	DD	23	LYS
31	DD	28	LYS
31	DD	59	LYS
32	DE	10	ILE
32	DE	12	GLN
32	DE	34	LEU
32	DE	41	LEU
32	DE	76	GLU
32	DE	103	THR
33	DF	8	VAL
33	DF	13	THR

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Mol	Chain	Res	Type
33	DF	16	LEU
33	DF	18	LYS
33	DF	24	SER
33	DF	46	THR
33	DF	47	ASP
33	DF	55	LEU
33	DF	64	VAL
33	DF	67	VAL
33	DF	68	GLU
33	DF	76	SER
33	DF	79	ARG
33	DF	86	LYS
33	DF	94	GLU
33	DF	96	VAL
33	DF	104	LEU
33	DF	106	THR
33	DF	107	VAL
34	DG	4	LEU
34	DG	8	LYS
34	DG	10	VAL
34	DG	19	ARG
34	DG	21	HIS
34	DG	33	ARG
34	DG	45	ARG
34	DG	67	SER
34	DG	73	THR
34	DG	75	LEU
34	DG	82	LEU
34	DG	86	THR
34	DG	88	HIS
34	DG	106	VAL
34	DG	125	ARG
35	DH	4	SER
35	DH	28	SER
35	DH	49	ILE
35	DH	59	VAL
35	DH	80	VAL
35	DH	81	VAL
35	DH	92	LYS
35	DH	98	VAL
35	DH	107	ILE
36	DI	5	VAL

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Mol	Chain	Res	Type
36	DI	6	THR
36	DI	15	THR
36	DI	20	ILE
36	DI	29	ILE
36	DI	57	LEU
36	DI	58	ARG
36	DI	60	ARG
36	DI	64	THR
36	DI	65	VAL
36	DI	71	THR
36	DI	72	VAL
36	DI	83	ASN
36	DI	86	LYS
36	DI	95	ILE
36	DI	102	LYS
36	DI	103	LYS
37	DJ	11	THR
37	DJ	13	SER
37	DJ	20	GLN
37	DJ	21	LEU
37	DJ	28	LEU
37	DJ	36	LEU
37	DJ	45	LYS
37	DJ	47	VAL
37	DJ	49	LYS
37	DJ	62	GLN
37	DJ	68	GLN
37	DJ	69	LEU
37	DJ	71	LYS
37	DJ	73	LYS
37	DJ	85	THR
37	DJ	89	ARG
37	DJ	90	ARG
37	DJ	119	LYS
38	DK	11	LEU
38	DK	12	ASN
38	DK	13	LYS
38	DK	17	VAL
38	DK	20	MET
38	DK	21	THR
38	DK	26	ILE
38	DK	30	LYS

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Mol	Chain	Res	Type
38	DK	35	ASN
38	DK	36	ARG
38	DK	43	LEU
38	DK	45	ARG
38	DK	58	ILE
38	DK	68	ARG
38	DK	79	SER
39	DL	12	HIS
39	DL	17	THR
39	DL	21	ARG
39	DL	25	ARG
39	DL	33	THR
39	DL	36	SER
39	DL	55	ARG
39	DL	64	MET
39	DL	67	LEU
39	DL	80	THR
40	DM	8	ILE
40	DM	24	THR
40	DM	32	ASN
40	DM	41	THR
40	DM	45	VAL
40	DM	49	SER
40	DM	53	THR
40	DM	65	LEU
40	DM	69	LEU
41	DN	4	GLN
41	DN	21	ARG
41	DN	51	ILE
42	DO	77	ILE
42	DO	92	ASP
42	DO	113	ARG
42	DO	127	LEU
43	DP	2	ARG
43	DP	4	LYS
43	DP	9	ARG
43	DP	24	SER
44	DQ	7	THR
44	DQ	16	THR
44	DQ	26	THR
44	DQ	35	LEU
44	DQ	60	LYS

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Mol	Chain	Res	Type
44	DQ	64	THR
44	DQ	69	VAL
44	DQ	71	ARG
44	DQ	83	LEU
44	DQ	84	THR
44	DQ	99	GLN
44	DQ	100	LYS
44	DQ	104	LEU
45	DR	11	THR
45	DR	16	VAL
45	DR	25	GLN
45	DR	34	HIS
45	DR	40	SER
45	DR	46	THR
45	DR	54	ILE
45	DR	56	THR
45	DR	62	LYS
45	DR	70	THR
45	DR	91	GLU
47	p0	4	ILE
47	p0	5	ARG
47	p0	17	GLU
47	p0	30	VAL
47	p0	51	VAL
47	p0	52	LEU
47	p0	67	LEU
47	p0	69	ASP
47	p0	74	GLU
47	p0	76	LEU
47	p0	80	VAL
47	p0	93	LEU
47	p0	104	ARG
47	p0	192	ASP
48	sM	30	THR
48	sM	43	ASP
48	sM	49	LYS
48	sM	61	ILE
48	sM	68	ARG
48	sM	77	THR
48	sM	78	ASP
49	B	7	PHE
49	B	50	VAL

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Mol	Chain	Res	Type
49	B	59	LEU
49	B	64	ILE
49	B	87	LEU
49	B	88	LYS
49	B	96	THR
49	B	111	ILE
49	B	119	ARG
49	B	170	ILE
49	B	172	LEU
49	B	177	LEU
49	B	188	LEU
49	B	196	SER
49	B	198	MET
50	C	21	VAL
50	C	25	THR
50	C	29	TRP
50	C	30	PHE
50	C	46	THR
50	C	61	LEU
50	C	68	VAL
50	C	70	LEU
50	C	74	GLN
50	C	77	GLU
50	C	78	ASP
50	C	81	PHE
50	C	97	LEU
50	C	105	PHE
50	C	174	LYS
50	C	176	VAL
50	C	180	THR
50	C	181	LEU
50	C	184	LEU
50	C	202	LYS
50	C	215	VAL
50	C	218	LEU
50	C	220	GLN
51	D	53	ILE
51	D	54	GLU
51	D	58	LEU
51	D	69	ILE
51	D	72	LEU
51	D	76	LEU

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Mol	Chain	Res	Type
51	D	77	GLN
51	D	89	GLN
51	D	90	THR
51	D	95	ARG
51	D	97	ARG
51	D	113	LEU
51	D	117	THR
51	D	134	LEU
51	D	137	ILE
51	D	141	ARG
51	D	148	LEU
51	D	153	SER
51	D	208	GLU
51	D	221	THR
51	D	222	TYR
51	D	225	LEU
51	D	226	THR
51	D	229	LEU
51	D	235	LEU
51	D	237	VAL
51	D	242	ILE
52	E	4	LEU
52	E	5	ILE
52	E	7	LYS
52	E	21	LEU
52	E	23	GLU
52	E	41	VAL
52	E	66	ILE
52	E	67	ASN
52	E	84	ILE
52	E	93	ASP
52	E	103	GLU
52	E	105	MET
52	E	117	ARG
52	E	151	LYS
52	E	158	ILE
52	E	172	THR
52	E	175	VAL
52	E	176	LEU
52	E	178	ARG
52	E	181	VAL
52	E	182	LEU

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Mol	Chain	Res	Type
52	E	202	LEU
52	E	212	LYS
52	E	215	GLU
53	F	6	LYS
53	F	7	LYS
53	F	9	LEU
53	F	38	LEU
53	F	40	GLU
53	F	54	TYR
53	F	65	LEU
53	F	70	VAL
53	F	77	ARG
53	F	105	VAL
53	F	129	VAL
53	F	131	LEU
53	F	133	LYS
53	F	142	HIS
53	F	146	THR
53	F	156	VAL
53	F	160	VAL
53	F	180	LEU
53	F	181	VAL
53	F	187	ARG
53	F	197	HIS
53	F	206	ASP
53	F	215	ASP
53	F	221	ARG
53	F	227	VAL
53	F	240	LYS
53	F	242	LYS
53	F	246	LEU
53	F	248	ILE
54	G	23	VAL
54	G	25	LEU
54	G	38	THR
54	G	43	PHE
54	G	45	LYS
54	G	79	ASN
54	G	89	ILE
54	G	93	LEU
54	G	94	THR
54	G	109	LYS

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Mol	Chain	Res	Type
54	G	149	VAL
54	G	156	ARG
54	G	162	VAL
54	G	194	LEU
54	G	196	GLU
54	G	216	GLU
54	G	219	ARG
55	H	5	ILE
55	H	6	SER
55	H	25	ARG
55	H	71	THR
55	H	76	LEU
55	H	125	THR
55	H	126	ASP
55	H	128	THR
55	H	129	VAL
55	H	132	ARG
55	H	133	LEU
55	H	155	ASP
55	H	170	THR
55	H	193	LEU
55	H	211	LEU
55	H	212	LEU
55	H	223	LYS
56	I	9	LEU
56	I	26	GLU
56	I	28	GLU
56	I	30	SER
56	I	38	LEU
56	I	49	ILE
56	I	50	ASP
56	I	51	VAL
56	I	64	VAL
56	I	67	LEU
56	I	87	ASP
56	I	99	LEU
56	I	114	ARG
56	I	116	ARG
56	I	119	THR
56	I	126	LEU
56	I	133	THR
56	I	136	VAL

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Mol	Chain	Res	Type
56	I	147	ASN
56	I	166	LEU
56	I	181	ILE
56	I	182	VAL
56	I	185	ILE
57	J	7	SER
57	J	29	LEU
57	J	36	THR
57	J	45	SER
57	J	46	VAL
57	J	48	THR
57	J	58	LEU
57	J	60	ILE
57	J	70	GLU
57	J	72	ILE
57	J	78	ILE
57	J	121	LEU
57	J	137	LYS
57	J	138	ASN
57	J	140	GLU
57	J	149	SER
57	J	151	LYS
57	J	152	ILE
57	J	164	ARG
57	J	196	LEU
58	K	3	ARG
58	K	6	ARG
58	K	7	THR
58	K	28	LEU
58	K	40	LYS
58	K	49	LEU
58	K	60	LEU
58	K	78	ARG
58	K	89	ASP
58	K	92	LYS
58	K	93	LEU
58	K	96	VAL
58	K	97	LEU
58	K	99	LEU
58	K	101	VAL
58	K	113	VAL
58	K	126	ARG

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Mol	Chain	Res	Type
58	K	134	ILE
58	K	138	LYS
58	K	157	ASP
58	K	161	THR
58	K	171	ARG
58	K	172	VAL
59	L	20	VAL
59	L	28	ASN
59	L	31	LYS
59	L	37	THR
59	L	55	VAL
59	L	67	THR
59	L	76	LEU
59	L	81	ASN
59	L	82	LEU
60	M	5	LEU
60	M	21	ASN
60	M	37	ASN
60	M	40	LEU
60	M	43	LYS
60	M	44	THR
60	M	54	ILE
60	M	67	ARG
60	M	75	VAL
60	M	76	VAL
60	M	83	THR
60	M	102	LYS
60	M	105	LYS
60	M	109	VAL
61	N	28	LEU
61	N	37	VAL
61	N	43	ARG
61	N	46	ARG
61	N	50	LYS
61	N	61	VAL
61	N	62	LEU
61	N	66	VAL
61	N	71	ILE
61	N	74	LEU
61	N	85	LYS
61	N	103	LEU
61	N	125	ASN

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Mol	Chain	Res	Type
61	N	132	GLU
62	O	3	ARG
62	O	11	ILE
62	O	27	LYS
62	O	62	GLN
62	O	64	ARG
62	O	83	GLU
62	O	88	LEU
62	O	102	LEU
62	O	105	ASN
62	O	115	LEU
62	O	125	LEU
62	O	138	ASN
62	O	149	LEU
63	P	13	VAL
63	P	16	VAL
63	P	26	THR
63	P	29	HIS
63	P	31	THR
63	P	39	ILE
63	P	43	THR
63	P	49	LYS
63	P	79	VAL
63	P	81	VAL
63	P	92	LYS
63	P	93	THR
63	P	102	LEU
63	P	114	ARG
63	P	119	THR
63	P	127	ARG
63	P	132	ARG
63	P	136	ARG
63	P	137	LEU
64	Q	11	VAL
64	Q	22	LEU
64	Q	29	SER
64	Q	35	LYS
64	Q	44	ARG
64	Q	52	LYS
64	Q	84	ILE
64	Q	88	GLU
64	Q	92	SER

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Mol	Chain	Res	Type
64	Q	110	GLU
64	Q	126	VAL
65	R	14	LYS
65	R	19	VAL
65	R	28	LEU
65	R	57	LEU
65	R	65	ILE
65	R	66	ARG
65	R	69	VAL
65	R	106	LYS
65	R	114	ARG
65	R	116	LEU
65	R	117	LEU
65	R	118	ILE
65	R	121	SER
65	R	123	ARG
65	R	128	LYS
65	R	137	ARG
65	R	141	SER
66	S	38	ILE
66	S	46	LEU
66	S	54	THR
66	S	62	GLN
66	S	69	ILE
66	S	72	LYS
66	S	85	VAL
66	S	105	GLN
66	S	115	LEU
67	T	3	LEU
67	T	5	VAL
67	T	8	GLN
67	T	13	HIS
67	T	14	ILE
67	T	25	ASN
67	T	28	ILE
67	T	71	GLN
67	T	81	ILE
67	T	93	THR
67	T	97	ASP
67	T	136	GLN
67	T	138	THR
68	U	6	VAL

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Mol	Chain	Res	Type
68	U	22	LEU
68	U	27	LYS
68	U	28	LEU
68	U	35	ASP
68	U	36	ILE
68	U	57	ARG
68	U	64	HIS
68	U	67	MET
68	U	70	GLN
68	U	71	VAL
68	U	94	ILE
68	U	103	LYS
68	U	111	ILE
68	U	117	SER
68	U	124	ILE
68	U	131	ASP
68	U	132	LEU
68	U	139	THR
68	U	144	GLU
69	V	20	ILE
69	V	21	LYS
69	V	22	ILE
69	V	27	THR
69	V	31	VAL
69	V	41	ILE
69	V	48	HIS
69	V	51	VAL
69	V	56	VAL
69	V	57	ARG
69	V	60	THR
69	V	61	LYS
69	V	74	GLU
69	V	81	THR
69	V	89	ARG
69	V	103	ILE
69	V	108	ILE
69	V	117	VAL
70	W	1	MET
70	W	5	LYS
70	W	8	LEU
70	W	10	GLU
70	W	18	SER

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Mol	Chain	Res	Type
70	W	25	LYS
70	W	32	VAL
70	W	41	GLU
70	W	68	SER
70	W	69	LEU
70	W	78	LEU
71	X	7	LEU
71	X	23	ARG
71	X	24	GLN
71	X	25	VAL
71	X	26	LEU
71	X	53	ILE
71	X	56	HIS
71	X	65	LEU
71	X	74	VAL
71	X	83	ILE
71	X	86	ILE
71	X	93	LEU
71	X	98	GLN
71	X	103	ILE
71	X	119	LYS
71	X	121	VAL
71	X	125	ILE
71	X	126	LEU
72	Y	7	ARG
72	Y	9	LEU
72	Y	16	ARG
72	Y	59	ILE
72	Y	72	VAL
72	Y	79	ASN
72	Y	100	ASP
72	Y	103	LEU
72	Y	107	PHE
72	Y	110	LYS
72	Y	114	LYS
72	Y	117	ILE
72	Y	127	VAL
72	Y	131	SER
72	Y	132	LEU
72	Y	138	GLU
72	Y	140	LYS
72	Y	142	LYS

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Mol	Chain	Res	Type
72	Y	144	ARG
73	Z	57	VAL
73	Z	62	THR
73	Z	99	LYS
73	Z	100	VAL
73	Z	102	LYS
73	Z	104	SER
73	Z	123	LYS
73	Z	124	ARG
73	Z	128	LYS
74	a	40	VAL
74	a	42	LEU
74	a	49	ARG
74	a	58	ARG
74	a	60	VAL
74	a	63	SER
74	a	69	LEU
74	a	78	ILE
74	a	92	ILE
74	a	95	HIS
74	a	98	GLN
75	b	7	SER
75	b	11	ASN
75	b	12	LYS
75	b	30	ILE
75	b	41	ILE
75	b	44	ILE
75	b	61	GLU
75	b	64	LEU
75	b	66	LYS
75	b	68	TYR
75	b	74	CYS
75	b	76	SER
75	b	79	ILE
75	b	82	ARG
75	b	91	ASP
76	c	4	VAL
76	c	20	LYS
76	c	33	LEU
76	c	61	THR
76	c	77	THR
77	d	15	VAL

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Mol	Chain	Res	Type
77	d	19	THR
77	d	28	VAL
77	d	35	ASP
77	d	49	ARG
77	d	58	GLU
78	e	8	PHE
78	e	21	CYS
78	e	30	LEU
78	e	32	ARG
79	f	3	LYS
79	f	14	VAL
79	f	20	LYS
79	f	21	VAL
79	f	50	VAL
80	g	91	ILE
80	g	95	HIS
80	g	97	LYS
80	g	130	VAL
80	g	147	VAL
81	h	10	ARG
81	h	16	HIS
81	h	50	ASP
81	h	66	HIS
81	h	76	ASP
81	h	106	HIS
81	h	108	SER
81	h	117	LYS
81	h	123	ILE
81	h	136	ILE
81	h	141	LEU
81	h	145	LEU
81	h	193	ILE
81	h	232	TYR
81	h	238	ASP
81	h	265	LEU
81	h	268	GLN
81	h	300	THR
81	h	308	ASN
81	h	314	GLN
81	h	316	MET
81	h	317	THR
81	h	319	ASN

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Mol	Chain	Res	Type
49	s0	9	LEU
49	s0	12	GLU
49	s0	24	LEU
49	s0	29	VAL
49	s0	30	GLN
49	s0	41	ARG
49	s0	45	VAL
49	s0	50	VAL
49	s0	59	LEU
49	s0	87	LEU
49	s0	93	THR
49	s0	131	GLN
49	s0	154	GLU
49	s0	157	ASP
49	s0	172	LEU
49	s0	184	LEU
49	s0	185	ARG
49	s0	188	LEU
49	s0	191	ARG
49	s0	198	MET
50	s1	21	VAL
50	s1	30	PHE
50	s1	38	PHE
50	s1	42	ASN
50	s1	51	SER
50	s1	54	LEU
50	s1	79	HIS
50	s1	81	PHE
50	s1	96	LEU
50	s1	105	PHE
50	s1	110	LEU
50	s1	122	GLU
50	s1	126	THR
50	s1	131	ASP
50	s1	152	ARG
50	s1	153	HIS
50	s1	173	THR
50	s1	180	THR
50	s1	181	LEU
50	s1	193	ILE
50	s1	203	ASP
50	s1	212	VAL

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Mol	Chain	Res	Type
50	s1	223	PHE
50	s1	225	VAL
50	s1	228	LEU
50	s1	231	LEU
50	s1	234	GLU
51	s2	53	ILE
51	s2	55	GLU
51	s2	56	ILE
51	s2	58	LEU
51	s2	80	VAL
51	s2	82	ASN
51	s2	83	ILE
51	s2	86	VAL
51	s2	91	ARG
51	s2	94	GLN
51	s2	95	ARG
51	s2	102	VAL
51	s2	106	ASP
51	s2	111	VAL
51	s2	113	LEU
51	s2	117	THR
51	s2	130	ILE
51	s2	139	ILE
51	s2	141	ARG
51	s2	148	LEU
51	s2	150	GLN
51	s2	159	THR
51	s2	164	SER
51	s2	166	THR
51	s2	170	ILE
51	s2	185	LYS
51	s2	194	GLU
51	s2	205	ARG
51	s2	207	LEU
51	s2	218	ILE
51	s2	222	TYR
51	s2	225	LEU
51	s2	233	GLN
51	s2	237	VAL
51	s2	238	SER
51	s2	246	GLU
52	s3	21	LEU

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Mol	Chain	Res	Type
52	s3	37	VAL
52	s3	41	VAL
52	s3	66	ILE
52	s3	84	ILE
52	s3	115	ILE
52	s3	120	TYR
52	s3	142	LEU
52	s3	158	ILE
52	s3	162	GLN
52	s3	168	ILE
52	s3	169	ASP
52	s3	176	LEU
52	s3	181	VAL
52	s3	223	LYS
53	s4	6	LYS
53	s4	12	LEU
53	s4	21	ASP
53	s4	23	LEU
53	s4	30	ARG
53	s4	32	SER
53	s4	37	LYS
53	s4	38	LEU
53	s4	42	LEU
53	s4	45	ILE
53	s4	48	LEU
53	s4	49	ARG
53	s4	51	ARG
53	s4	52	LEU
53	s4	67	GLN
53	s4	68	ARG
53	s4	102	VAL
53	s4	104	ASP
53	s4	111	VAL
53	s4	116	ASP
53	s4	126	VAL
53	s4	129	VAL
53	s4	131	LEU
53	s4	147	ILE
53	s4	148	ARG
53	s4	163	ASP
53	s4	164	LEU
53	s4	170	THR

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Mol	Chain	Res	Type
53	s4	176	ASP
53	s4	180	LEU
53	s4	181	VAL
53	s4	191	ARG
53	s4	216	ASN
53	s4	227	VAL
53	s4	244	ILE
54	s5	23	VAL
54	s5	25	LEU
54	s5	29	ILE
54	s5	38	THR
54	s5	41	LYS
54	s5	45	LYS
54	s5	59	VAL
54	s5	63	GLN
54	s5	66	GLN
54	s5	68	ILE
54	s5	76	ARG
54	s5	89	ILE
54	s5	93	LEU
54	s5	119	ASP
54	s5	125	THR
54	s5	126	ASP
54	s5	146	THR
54	s5	162	VAL
54	s5	194	LEU
54	s5	203	LYS
54	s5	216	GLU
55	s6	44	GLU
55	s6	67	VAL
55	s6	68	LEU
55	s6	71	THR
55	s6	76	LEU
55	s6	78	THR
55	s6	93	LYS
55	s6	97	VAL
55	s6	98	ARG
55	s6	108	VAL
55	s6	109	LEU
55	s6	112	VAL
55	s6	115	LYS
55	s6	120	GLU

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Mol	Chain	Res	Type
55	s6	121	LEU
55	s6	126	ASP
55	s6	128	THR
55	s6	129	VAL
55	s6	143	LYS
55	s6	151	ASP
55	s6	153	VAL
55	s6	177	ARG
55	s6	179	VAL
55	s6	193	LEU
55	s6	212	LEU
55	s6	215	ARG
55	s6	216	LEU
56	s7	9	LEU
56	s7	30	SER
56	s7	33	GLU
56	s7	67	LEU
56	s7	95	GLU
56	s7	114	ARG
56	s7	116	ARG
56	s7	117	THR
56	s7	123	ASP
56	s7	143	LEU
56	s7	144	VAL
56	s7	159	VAL
56	s7	185	ILE
57	s8	10	LYS
57	s8	29	LEU
57	s8	36	THR
57	s8	48	THR
57	s8	52	ASN
57	s8	56	ARG
57	s8	60	ILE
57	s8	66	SER
57	s8	72	ILE
57	s8	74	LYS
57	s8	120	THR
57	s8	138	ASN
57	s8	151	LYS
57	s8	153	GLU
57	s8	155	SER
57	s8	168	CYS

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Mol	Chain	Res	Type
57	s8	179	CYS
57	s8	180	ASP
57	s8	183	ILE
57	s8	184	LEU
58	s9	5	PRO
58	s9	16	LYS
58	s9	25	ASP
58	s9	28	LEU
58	s9	39	LYS
58	s9	54	ARG
58	s9	81	VAL
58	s9	89	ASP
58	s9	93	LEU
58	s9	96	VAL
58	s9	101	VAL
58	s9	105	LEU
58	s9	109	LEU
58	s9	126	ARG
58	s9	130	THR
58	s9	132	ARG
58	s9	134	ILE
58	s9	156	ILE
58	s9	161	THR
58	s9	168	ARG
58	s9	172	VAL
58	s9	182	GLU
59	c0	15	LEU
59	c0	20	VAL
59	c0	26	ASP
59	c0	55	VAL
59	c0	57	THR
59	c0	68	LEU
59	c0	71	GLU
60	c1	6	THR
60	c1	10	GLU
60	c1	26	LYS
60	c1	32	LYS
60	c1	40	LEU
60	c1	44	THR
60	c1	56	LYS
60	c1	60	PHE
60	c1	70	ILE

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Mol	Chain	Res	Type
60	c1	71	LEU
60	c1	74	THR
60	c1	76	VAL
60	c1	80	MET
60	c1	83	THR
60	c1	94	ILE
60	c1	109	VAL
60	c1	122	ILE
60	c1	129	ARG
61	c2	26	ASP
61	c2	28	LEU
61	c2	30	VAL
61	c2	45	LEU
61	c2	52	LEU
61	c2	54	ARG
61	c2	58	LEU
61	c2	59	LEU
61	c2	61	VAL
61	c2	71	ILE
61	c2	81	ASP
61	c2	83	GLU
61	c2	89	ILE
61	c2	91	VAL
61	c2	103	LEU
61	c2	132	GLU
61	c2	137	MET
61	c2	140	PHE
62	c3	3	ARG
62	c3	16	ILE
62	c3	30	SER
62	c3	39	LYS
62	c3	60	VAL
62	c3	64	ARG
62	c3	66	ILE
62	c3	70	LYS
62	c3	76	LYS
62	c3	80	LEU
62	c3	87	ASP
62	c3	93	LYS
62	c3	102	LEU
62	c3	125	LEU
62	c3	138	ASN

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Mol	Chain	Res	Type
62	c3	143	SER
63	c4	13	VAL
63	c4	26	THR
63	c4	31	THR
63	c4	70	LYS
63	c4	79	VAL
63	c4	90	ARG
63	c4	102	LEU
63	c4	107	ARG
63	c4	114	ARG
63	c4	118	VAL
63	c4	119	THR
63	c4	124	ASP
63	c4	136	ARG
64	c5	10	ARG
64	c5	11	VAL
64	c5	12	PHE
64	c5	20	VAL
64	c5	27	GLU
64	c5	36	LEU
64	c5	52	LYS
64	c5	65	LEU
64	c5	69	GLU
64	c5	110	GLU
64	c5	111	MET
64	c5	127	ARG
65	c6	17	THR
65	c6	23	LYS
65	c6	26	LYS
65	c6	28	LEU
65	c6	43	ILE
65	c6	53	LEU
65	c6	54	LEU
65	c6	57	LEU
65	c6	63	ILE
65	c6	68	ARG
65	c6	69	VAL
65	c6	114	ARG
65	c6	128	LYS
65	c6	137	ARG
82	c7	7	LYS
82	c7	25	THR

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Mol	Chain	Res	Type
82	c7	29	GLN
82	c7	34	LEU
82	c7	46	LEU
82	c7	55	THR
82	c7	69	ILE
82	c7	72	LYS
82	c7	82	ASP
82	c7	85	VAL
82	c7	105	GLN
82	c7	113	LEU
67	c8	3	LEU
67	c8	5	VAL
67	c8	12	GLN
67	c8	15	LEU
67	c8	25	ASN
67	c8	28	ILE
67	c8	94	ASP
67	c8	138	THR
68	c9	6	VAL
68	c9	28	LEU
68	c9	29	GLU
68	c9	68	ARG
68	c9	110	LYS
68	c9	111	ILE
68	c9	124	ILE
68	c9	140	LEU
68	c9	141	GLU
69	d0	18	GLN
69	d0	23	ARG
69	d0	27	THR
69	d0	60	THR
69	d0	67	THR
69	d0	70	THR
69	d0	99	ILE
69	d0	103	ILE
69	d0	107	THR
69	d0	108	ILE
69	d0	118	VAL
70	d1	5	LYS
70	d1	9	VAL
70	d1	11	LEU
70	d1	25	LYS

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Mol	Chain	Res	Type
70	d1	31	SER
70	d1	32	VAL
70	d1	41	GLU
70	d1	78	LEU
70	d1	81	ASN
71	d2	12	ASN
71	d2	23	ARG
71	d2	25	VAL
71	d2	26	LEU
71	d2	41	MET
71	d2	93	LEU
71	d2	103	ILE
71	d2	105	THR
71	d2	107	SER
71	d2	125	ILE
72	d3	5	LYS
72	d3	23	ARG
72	d3	40	SER
72	d3	73	ARG
72	d3	84	THR
72	d3	96	VAL
72	d3	98	GLU
72	d3	100	ASP
72	d3	103	LEU
72	d3	107	PHE
72	d3	112	LYS
72	d3	121	ARG
72	d3	127	VAL
72	d3	133	LEU
73	d4	9	THR
73	d4	24	VAL
73	d4	26	ASP
73	d4	49	LYS
73	d4	52	LYS
73	d4	62	THR
73	d4	88	THR
73	d4	105	ARG
74	d5	46	LYS
74	d5	48	ASP
74	d5	51	LEU
74	d5	57	TYR
74	d5	60	VAL

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Mol	Chain	Res	Type
74	d5	97	LYS
75	d6	8	ASN
75	d6	12	LYS
75	d6	18	VAL
75	d6	25	ASN
75	d6	29	SER
75	d6	55	GLU
75	d6	61	GLU
75	d6	79	ILE
75	d6	85	ARG
75	d6	90	GLU
76	d7	3	LEU
76	d7	4	VAL
76	d7	34	ASP
76	d7	43	ILE
76	d7	49	HIS
76	d7	67	THR
76	d7	77	THR
77	d8	15	VAL
77	d8	22	ARG
77	d8	32	PHE
77	d8	33	LEU
77	d8	36	THR
77	d8	39	THR
77	d8	40	ILE
77	d8	66	LEU
78	d9	6	VAL
78	d9	10	HIS
78	d9	30	LEU
78	d9	32	ARG
78	d9	36	LEU
78	d9	54	LYS
79	e0	4	VAL
79	e0	13	LYS
79	e0	22	GLU
79	e0	26	LYS
79	e0	29	LYS
79	e0	31	LYS
79	e0	38	LEU
79	e0	39	LEU
79	e0	46	ASN
79	e0	48	THR

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Mol	Chain	Res	Type
79	e0	49	LEU
79	e0	54	ARG
83	e1	103	LEU
83	e1	113	LYS
83	e1	119	ARG
83	e1	120	GLU
83	e1	130	VAL
83	e1	135	HIS
83	e1	137	ASP
83	e1	147	VAL
83	e1	148	TYR
83	e1	150	VAL
81	sR	8	VAL
81	sR	16	HIS
81	sR	21	THR
81	sR	25	THR
81	sR	58	VAL
81	sR	64	HIS
81	sR	66	HIS
81	sR	76	ASP
81	sR	96	THR
81	sR	106	HIS
81	sR	113	VAL
81	sR	145	LEU
81	sR	149	ASP
81	sR	159	ASN
81	sR	188	ILE
81	sR	228	LYS
81	sR	238	ASP
81	sR	286	GLU
81	sR	317	THR
81	sR	319	ASN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (178) such sidechains are listed below:

Mol	Chain	Res	Type
4	j	216	HIS
5	k	121	ASN
5	k	139	GLN
6	l	48	GLN
6	l	110	ASN
6	l	114	ASN

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Mol	Chain	Res	Type
6	l	116	ASN
6	l	140	HIS
6	l	291	ASN
6	l	296	GLN
7	m	40	HIS
8	n	61	ASN
10	p	28	HIS
10	p	45	ASN
10	p	77	GLN
10	p	145	ASN
11	q	50	ASN
11	q	162	GLN
12	r	51	HIS
12	r	55	ASN
13	s	7	ASN
13	s	109	HIS
14	t	114	GLN
14	t	160	GLN
15	u	56	GLN
16	v	86	ASN
16	v	87	GLN
16	v	112	ASN
16	v	117	ASN
17	w	193	GLN
18	x	10	ASN
18	x	97	ASN
18	x	133	HIS
19	y	126	GLN
21	0	65	ASN
21	0	68	HIS
22	2	45	ASN
23	5	87	ASN
24	l2	81	GLN
24	l2	98	ASN
29	AA	106	GLN
30	AB	39	HIS
31	AC	7	HIS
34	AF	104	ASN
35	AG	26	ASN
35	AG	88	ASN
37	AI	104	GLN
39	AK	69	HIS

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Mol	Chain	Res	Type
40	AL	32	ASN
41	AM	11	GLN
44	AP	47	GLN
44	AP	102	GLN
45	AQ	25	GLN
5	CE	11	HIS
5	CE	121	ASN
5	CE	211	GLN
5	CE	377	HIS
6	CF	18	ASN
6	CF	43	ASN
6	CF	116	ASN
6	CF	311	HIS
6	CF	316	ASN
7	CG	40	HIS
7	CG	111	GLN
9	CI	93	ASN
9	CI	172	ASN
10	CJ	192	GLN
10	CJ	240	ASN
12	CL	92	HIS
12	CL	163	GLN
13	CM	165	GLN
14	CN	6	ASN
14	CN	17	HIS
15	CO	56	GLN
15	CO	59	ASN
16	CP	23	GLN
16	CP	194	GLN
17	CQ	90	HIS
17	CQ	193	GLN
18	CR	96	GLN
18	CR	179	GLN
19	CS	45	ASN
20	CT	92	GLN
20	CT	144	GLN
20	CT	166	ASN
21	CU	3	HIS
21	CU	114	HIS
22	CV	98	HIS
22	CV	146	ASN
23	CW	87	ASN

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Mol	Chain	Res	Type
23	CW	88	GLN
26	CY	59	HIS
27	CZ	137	ASN
28	DA	81	GLN
28	DA	110	HIS
29	DB	36	HIS
29	DB	57	HIS
29	DB	103	GLN
29	DB	122	HIS
31	DD	6	ASN
32	DE	47	ASN
33	DF	21	HIS
34	DG	21	HIS
34	DG	35	GLN
34	DG	49	ASN
34	DG	78	ASN
35	DH	87	ASN
36	DI	98	GLN
38	DK	12	ASN
41	DN	4	GLN
41	DN	33	ASN
45	DR	32	GLN
45	DR	33	GLN
45	DR	34	HIS
51	D	89	GLN
51	D	150	GLN
53	F	197	HIS
53	F	259	GLN
54	G	200	ASN
55	H	65	GLN
56	I	29	ASN
57	J	116	HIS
59	L	81	ASN
61	N	142	GLN
64	Q	103	ASN
66	S	31	ASN
66	S	105	GLN
67	T	71	GLN
67	T	75	ASN
67	T	104	ASN
68	U	101	ASN
68	U	129	GLN

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Mol	Chain	Res	Type
69	V	17	GLN
69	V	40	ASN
70	W	21	ASN
72	Y	89	ASN
73	Z	63	GLN
74	a	95	HIS
75	b	69	ASN
78	e	53	ASN
80	g	145	HIS
81	h	52	GLN
81	h	153	GLN
49	s0	69	ASN
50	s1	79	HIS
51	s2	94	GLN
53	s4	67	GLN
53	s4	142	HIS
53	s4	188	ASN
54	s5	66	GLN
54	s5	100	ASN
55	s6	197	ASN
57	s8	103	GLN
59	c0	32	HIS
59	c0	58	GLN
62	c3	5	HIS
62	c3	62	GLN
64	c5	103	ASN
65	c6	103	ASN
82	c7	104	ASN
82	c7	105	GLN
67	c8	75	ASN
67	c8	137	HIS
68	c9	70	GLN
69	d0	49	ASN
70	d1	21	ASN
71	d2	15	ASN
71	d2	113	HIS
72	d3	27	ASN
72	d3	28	ASN
73	d4	63	GLN
74	d5	44	GLN
75	d6	69	ASN
75	d6	80	HIS

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Mol	Chain	Res	Type
76	d7	42	ASN
78	d9	53	ASN
81	sR	69	GLN
81	sR	182	ASN

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3145/3396 (92%)	564 (17%)	51 (1%)
1	AR	3145/3396 (92%)	583 (18%)	51 (1%)
2	3	120/121 (99%)	16 (13%)	0
2	AS	120/121 (99%)	15 (12%)	2 (1%)
25	6	1780/1800 (98%)	383 (21%)	30 (1%)
25	A	1778/1800 (98%)	409 (23%)	47 (2%)
3	4	157/158 (99%)	32 (20%)	2 (1%)
3	AT	157/158 (99%)	28 (17%)	3 (1%)
All	All	10402/10950 (94%)	2030 (19%)	186 (1%)

All (2030) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1	26	A
1	1	40	A
1	1	49	A
1	1	57	A
1	1	59	G
1	1	60	A
1	1	65	A
1	1	66	A
1	1	73	C
1	1	83	U
1	1	85	A
1	1	93	C
1	1	99	A
1	1	103	G
1	1	109	A
1	1	110	G
1	1	111	C
1	1	116	A
1	1	121	A
1	1	122	A

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Mol	Chain	Res	Type
1	1	133	U
1	1	135	C
1	1	136	G
1	1	156	G
1	1	157	A
1	1	166	C
1	1	170	G
1	1	187	A
1	1	190	U
1	1	191	U
1	1	192	C
1	1	200	C
1	1	206	G
1	1	210	U
1	1	213	A
1	1	218	G
1	1	219	A
1	1	237	G
1	1	240	U
1	1	241	G
1	1	243	G
1	1	249	U
1	1	250	U
1	1	251	G
1	1	252	U
1	1	253	A
1	1	266	A
1	1	269	G
1	1	282	G
1	1	283	G
1	1	286	U
1	1	295	A
1	1	298	U
1	1	311	C
1	1	315	C
1	1	323	A
1	1	329	U
1	1	338	A
1	1	339	C
1	1	349	A
1	1	350	C
1	1	373	A

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Mol	Chain	Res	Type
1	1	374	A
1	1	376	G
1	1	393	U
1	1	398	A
1	1	399	A
1	1	401	U
1	1	402	A
1	1	403	C
1	1	404	G
1	1	412	G
1	1	421	G
1	1	422	A
1	1	438	A
1	1	440	A
1	1	495	G
1	1	498	A
1	1	520	U
1	1	521	A
1	1	523	A
1	1	531	G
1	1	535	G
1	1	536	U
1	1	546	C
1	1	547	G
1	1	548	G
1	1	552	G
1	1	555	U
1	1	557	A
1	1	559	A
1	1	578	A
1	1	579	G
1	1	589	A
1	1	590	G
1	1	592	A
1	1	604	G
1	1	609	G
1	1	611	A
1	1	620	U
1	1	621	A
1	1	636	C
1	1	649	A
1	1	660	A

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Mol	Chain	Res	Type
1	1	677	A
1	1	681	U
1	1	684	G
1	1	691	A
1	1	705	A
1	1	709	A
1	1	712	G
1	1	715	A
1	1	716	A
1	1	727	G
1	1	764	U
1	1	766	U
1	1	767	U
1	1	776	U
1	1	777	U
1	1	781	G
1	1	785	G
1	1	806	A
1	1	817	A
1	1	830	A
1	1	849	C
1	1	861	C
1	1	874	U
1	1	879	U
1	1	890	C
1	1	896	A
1	1	907	G
1	1	908	G
1	1	909	G
1	1	914	A
1	1	916	G
1	1	917	A
1	1	921	A
1	1	923	C
1	1	924	G
1	1	937	G
1	1	943	U
1	1	944	C
1	1	959	C
1	1	960	U
1	1	974	G
1	1	979	U

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Mol	Chain	Res	Type
1	1	980	A
1	1	981	U
1	1	982	C
1	1	993	G
1	1	994	G
1	1	1001	G
1	1	1002	A
1	1	1006	A
1	1	1010	G
1	1	1017	C
1	1	1018	G
1	1	1020	G
1	1	1024	G
1	1	1025	A
1	1	1029	G
1	1	1036	A
1	1	1037	C
1	1	1041	U
1	1	1047	A
1	1	1049	C
1	1	1064	A
1	1	1065	A
1	1	1072	G
1	1	1081	U
1	1	1087	G
1	1	1093	A
1	1	1094	U
1	1	1095	U
1	1	1097	G
1	1	1098	A
1	1	1103	A
1	1	1104	G
1	1	1117	G
1	1	1131	G
1	1	1153	A
1	1	1159	A
1	1	1160	C
1	1	1180	A
1	1	1181	U
1	1	1186	G
1	1	1191	U
1	1	1192	C

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Mol	Chain	Res	Type
1	1	1201	C
1	1	1205	A
1	1	1209	G
1	1	1216	C
1	1	1217	A
1	1	1222	G
1	1	1227	C
1	1	1232	C
1	1	1235	U
1	1	1236	G
1	1	1237	G
1	1	1241	U
1	1	1243	G
1	1	1245	A
1	1	1246	G
1	1	1248	C
1	1	1249	G
1	1	1258	U
1	1	1262	G
1	1	1263	A
1	1	1264	G
1	1	1269	U
1	1	1270	A
1	1	1271	A
1	1	1274	A
1	1	1278	A
1	1	1279	C
1	1	1285	G
1	1	1286	A
1	1	1287	A
1	1	1308	A
1	1	1309	U
1	1	1313	G
1	1	1318	A
1	1	1330	A
1	1	1348	U
1	1	1349	G
1	1	1351	U
1	1	1352	A
1	1	1353	U
1	1	1355	A
1	1	1356	U

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Mol	Chain	Res	Type
1	1	1357	G
1	1	1386	A
1	1	1391	C
1	1	1392	G
1	1	1399	A
1	1	1400	G
1	1	1417	G
1	1	1418	A
1	1	1419	A
1	1	1421	G
1	1	1431	G
1	1	1433	A
1	1	1434	G
1	1	1437	C
1	1	1446	A
1	1	1481	A
1	1	1482	A
1	1	1493	G
1	1	1508	C
1	1	1527	C
1	1	1528	G
1	1	1555	U
1	1	1556	C
1	1	1560	G
1	1	1561	G
1	1	1562	C
1	1	1563	C
1	1	1567	U
1	1	1568	U
1	1	1569	U
1	1	1570	U
1	1	1576	G
1	1	1580	A
1	1	1583	A
1	1	1587	A
1	1	1589	A
1	1	1593	A
1	1	1605	A
1	1	1607	U
1	1	1620	U
1	1	1629	U
1	1	1639	C

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Mol	Chain	Res	Type
1	1	1643	A
1	1	1657	C
1	1	1658	G
1	1	1683	A
1	1	1716	U
1	1	1717	U
1	1	1724	U
1	1	1725	C
1	1	1736	G
1	1	1741	A
1	1	1742	U
1	1	1746	U
1	1	1750	A
1	1	1751	G
1	1	1760	A
1	1	1762	C
1	1	1765	U
1	1	1766	G
1	1	1769	G
1	1	1770	G
1	1	1780	G
1	1	1795	U
1	1	1797	A
1	1	1814	A
1	1	1815	U
1	1	1816	A
1	1	1817	G
1	1	1819	U
1	1	1820	U
1	1	1821	U
1	1	1835	A
1	1	1839	A
1	1	1841	A
1	1	1842	A
1	1	1846	C
1	1	1849	C
1	1	1850	A
1	1	1858	A
1	1	1866	C
1	1	1879	A
1	1	1880	U
1	1	1886	A

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Mol	Chain	Res	Type
1	1	1901	A
1	1	1906	G
1	1	1927	G
1	1	1951	C
1	1	1952	G
1	1	1953	G
1	1	1954	G
1	1	2094	C
1	1	2101	C
1	1	2102	U
1	1	2111	G
1	1	2113	A
1	1	2114	C
1	1	2121	G
1	1	2122	G
1	1	2131	A
1	1	2139	A
1	1	2140	U
1	1	2144	A
1	1	2149	A
1	1	2158	A
1	1	2169	G
1	1	2187	G
1	1	2188	A
1	1	2205	U
1	1	2208	A
1	1	2210	G
1	1	2223	A
1	1	2228	A
1	1	2244	A
1	1	2246	G
1	1	2249	G
1	1	2250	G
1	1	2255	A
1	1	2256	A
1	1	2272	G
1	1	2273	G
1	1	2281	A
1	1	2282	U
1	1	2288	G
1	1	2307	G
1	1	2310	U

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Mol	Chain	Res	Type
1	1	2313	A
1	1	2314	U
1	1	2315	G
1	1	2334	U
1	1	2336	U
1	1	2345	A
1	1	2365	C
1	1	2372	A
1	1	2373	A
1	1	2374	C
1	1	2375	G
1	1	2383	C
1	1	2385	G
1	1	2388	U
1	1	2393	G
1	1	2397	A
1	1	2402	A
1	1	2403	G
1	1	2404	A
1	1	2411	U
1	1	2418	G
1	1	2419	A
1	1	2422	C
1	1	2435	G
1	1	2444	C
1	1	2445	A
1	1	2502	A
1	1	2503	G
1	1	2514	U
1	1	2515	A
1	1	2522	G
1	1	2523	A
1	1	2526	C
1	1	2532	U
1	1	2533	G
1	1	2537	U
1	1	2538	U
1	1	2539	C
1	1	2540	A
1	1	2541	U
1	1	2542	U
1	1	2543	U

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Mol	Chain	Res	Type
1	1	2544	U
1	1	2547	A
1	1	2548	C
1	1	2549	G
1	1	2552	C
1	1	2555	G
1	1	2560	C
1	1	2561	A
1	1	2568	C
1	1	2569	A
1	1	2570	U
1	1	2571	U
1	1	2572	C
1	1	2573	G
1	1	2581	U
1	1	2585	G
1	1	2593	A
1	1	2594	C
1	1	2606	G
1	1	2607	G
1	1	2609	A
1	1	2614	G
1	1	2615	G
1	1	2638	C
1	1	2652	U
1	1	2656	A
1	1	2657	A
1	1	2658	G
1	1	2674	A
1	1	2677	G
1	1	2689	A
1	1	2690	G
1	1	2691	A
1	1	2694	A
1	1	2696	A
1	1	2714	G
1	1	2719	U
1	1	2728	G
1	1	2729	U
1	1	2737	C
1	1	2752	U
1	1	2753	G

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Mol	Chain	Res	Type
1	1	2772	C
1	1	2777	G
1	1	2778	G
1	1	2780	A
1	1	2787	G
1	1	2796	G
1	1	2800	G
1	1	2801	A
1	1	2802	A
1	1	2803	A
1	1	2810	C
1	1	2814	G
1	1	2817	A
1	1	2818	U
1	1	2819	A
1	1	2842	U
1	1	2843	U
1	1	2845	A
1	1	2853	A
1	1	2860	U
1	1	2867	C
1	1	2871	G
1	1	2872	A
1	1	2876	C
1	1	2887	A
1	1	2889	C
1	1	2899	C
1	1	2923	U
1	1	2935	U
1	1	2936	A
1	1	2942	C
1	1	2945	G
1	1	2947	G
1	1	2954	U
1	1	2955	U
1	1	2971	A
1	1	2979	U
1	1	2983	C
1	1	2990	G
1	1	2996	U
1	1	2997	G
1	1	3012	A

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Mol	Chain	Res	Type
1	1	3028	G
1	1	3030	G
1	1	3059	G
1	1	3074	G
1	1	3078	U
1	1	3079	U
1	1	3080	G
1	1	3086	A
1	1	3092	C
1	1	3104	U
1	1	3113	A
1	1	3119	U
1	1	3122	A
1	1	3128	G
1	1	3130	A
1	1	3131	U
1	1	3142	A
1	1	3143	C
1	1	3151	U
1	1	3153	U
1	1	3154	C
1	1	3155	U
1	1	3156	U
1	1	3157	U
1	1	3164	C
1	1	3165	A
1	1	3168	A
1	1	3170	A
1	1	3171	U
1	1	3173	G
1	1	3174	A
1	1	3176	G
1	1	3180	A
1	1	3181	C
1	1	3187	A
1	1	3196	U
1	1	3198	U
1	1	3207	U
1	1	3210	A
1	1	3217	C
1	1	3218	A
1	1	3219	G

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Mol	Chain	Res	Type
1	1	3229	G
1	1	3243	A
1	1	3245	A
1	1	3247	G
1	1	3259	U
1	1	3262	U
1	1	3269	U
1	1	3270	U
1	1	3272	C
1	1	3273	A
1	1	3276	G
1	1	3277	U
1	1	3281	U
1	1	3286	G
1	1	3287	U
1	1	3288	G
1	1	3289	G
1	1	3294	A
1	1	3304	U
1	1	3313	U
1	1	3316	A
1	1	3318	G
1	1	3319	U
1	1	3320	A
1	1	3341	U
1	1	3345	G
1	1	3347	A
1	1	3351	U
1	1	3352	U
1	1	3353	G
1	1	3354	U
1	1	3355	U
1	1	3369	G
1	1	3370	A
1	1	3375	A
1	1	3378	C
1	1	3383	G
1	1	3389	U
1	1	3390	G
1	1	3396	U
2	3	7	G
2	3	13	A

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Mol	Chain	Res	Type
2	3	22	A
2	3	23	A
2	3	41	G
2	3	42	A
2	3	54	U
2	3	55	A
2	3	65	G
2	3	74	C
2	3	76	A
2	3	78	U
2	3	91	G
2	3	102	A
2	3	112	G
2	3	121	U
3	4	2	A
3	4	16	G
3	4	34	U
3	4	35	C
3	4	48	A
3	4	53	A
3	4	59	A
3	4	62	C
3	4	63	G
3	4	80	A
3	4	81	U
3	4	82	U
3	4	83	C
3	4	84	C
3	4	85	G
3	4	86	U
3	4	87	G
3	4	90	U
3	4	95	G
3	4	102	U
3	4	104	A
3	4	106	C
3	4	111	A
3	4	113	U
3	4	125	U
3	4	126	A
3	4	128	U
3	4	138	A

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Mol	Chain	Res	Type
3	4	148	G
3	4	152	G
3	4	155	A
3	4	158	U
25	6	2	A
25	6	4	C
25	6	17	C
25	6	25	C
25	6	26	A
25	6	27	U
25	6	34	G
25	6	45	U
25	6	47	A
25	6	50	C
25	6	57	G
25	6	60	U
25	6	61	A
25	6	63	G
25	6	68	A
25	6	73	U
25	6	75	U
25	6	76	A
25	6	77	U
25	6	78	A
25	6	104	A
25	6	114	C
25	6	126	A
25	6	132	U
25	6	137	U
25	6	138	A
25	6	140	A
25	6	141	U
25	6	144	U
25	6	145	A
25	6	146	U
25	6	153	G
25	6	159	U
25	6	166	C
25	6	178	U
25	6	188	A
25	6	191	C
25	6	192	U

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Mol	Chain	Res	Type
25	6	193	U
25	6	195	G
25	6	196	G
25	6	197	A
25	6	200	A
25	6	215	A
25	6	216	U
25	6	218	A
25	6	219	A
25	6	220	A
25	6	227	U
25	6	228	G
25	6	230	C
25	6	232	U
25	6	233	C
25	6	240	U
25	6	241	U
25	6	250	C
25	6	260	U
25	6	261	U
25	6	265	A
25	6	271	A
25	6	272	U
25	6	273	G
25	6	278	U
25	6	280	U
25	6	299	A
25	6	302	U
25	6	308	C
25	6	314	C
25	6	316	A
25	6	319	U
25	6	320	U
25	6	321	C
25	6	322	G
25	6	337	G
25	6	338	C
25	6	352	A
25	6	359	A
25	6	360	A
25	6	361	C
25	6	393	C

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Mol	Chain	Res	Type
25	6	400	A
25	6	401	A
25	6	402	C
25	6	404	G
25	6	416	A
25	6	418	G
25	6	419	G
25	6	423	G
25	6	424	C
25	6	425	A
25	6	426	G
25	6	428	A
25	6	434	G
25	6	437	A
25	6	439	U
25	6	444	C
25	6	445	A
25	6	448	C
25	6	454	U
25	6	468	A
25	6	469	C
25	6	475	A
25	6	486	G
25	6	487	G
25	6	488	G
25	6	489	C
25	6	490	C
25	6	492	A
25	6	493	U
25	6	496	G
25	6	497	G
25	6	500	C
25	6	501	U
25	6	504	U
25	6	505	A
25	6	506	A
25	6	507	U
25	6	510	G
25	6	511	A
25	6	513	U
25	6	516	G
25	6	519	C

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Mol	Chain	Res	Type
25	6	527	A
25	6	535	A
25	6	538	A
25	6	539	G
25	6	540	G
25	6	541	A
25	6	542	A
25	6	543	C
25	6	548	G
25	6	554	C
25	6	556	A
25	6	557	G
25	6	558	U
25	6	559	C
25	6	565	C
25	6	570	A
25	6	574	G
25	6	578	U
25	6	580	A
25	6	582	U
25	6	594	A
25	6	595	G
25	6	597	G
25	6	606	A
25	6	610	G
25	6	611	U
25	6	619	A
25	6	620	A
25	6	621	A
25	6	622	A
25	6	623	A
25	6	624	G
25	6	640	U
25	6	650	U
25	6	652	G
25	6	653	C
25	6	658	C
25	6	676	G
25	6	679	U
25	6	680	U
25	6	681	U
25	6	682	C

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Mol	Chain	Res	Type
25	6	683	C
25	6	684	A
25	6	685	A
25	6	691	C
25	6	696	C
25	6	710	U
25	6	711	U
25	6	718	U
25	6	719	U
25	6	720	G
25	6	721	U
25	6	722	G
25	6	723	G
25	6	730	G
25	6	742	U
25	6	743	U
25	6	745	U
25	6	754	A
25	6	755	A
25	6	756	A
25	6	765	G
25	6	766	U
25	6	771	A
25	6	774	A
25	6	775	G
25	6	780	A
25	6	781	U
25	6	782	U
25	6	783	G
25	6	787	G
25	6	789	A
25	6	793	A
25	6	794	U
25	6	811	A
25	6	812	A
25	6	814	A
25	6	815	G
25	6	821	U
25	6	823	G
25	6	825	U
25	6	826	U
25	6	829	A

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Mol	Chain	Res	Type
25	6	830	U
25	6	831	U
25	6	832	U
25	6	834	G
25	6	835	U
25	6	856	A
25	6	862	A
25	6	863	A
25	6	864	U
25	6	873	U
25	6	886	U
25	6	898	A
25	6	906	A
25	6	912	U
25	6	913	G
25	6	914	G
25	6	933	A
25	6	935	U
25	6	942	G
25	6	945	U
25	6	959	U
25	6	960	U
25	6	966	A
25	6	969	C
25	6	971	A
25	6	992	A
25	6	993	A
25	6	1003	A
25	6	1004	U
25	6	1005	A
25	6	1021	C
25	6	1026	A
25	6	1028	C
25	6	1029	U
25	6	1039	A
25	6	1040	G
25	6	1052	U
25	6	1053	G
25	6	1057	U
25	6	1058	U
25	6	1059	U
25	6	1060	U

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Mol	Chain	Res	Type
25	6	1061	A
25	6	1072	C
25	6	1073	G
25	6	1075	C
25	6	1082	C
25	6	1092	A
25	6	1096	C
25	6	1097	U
25	6	1098	U
25	6	1100	G
25	6	1101	G
25	6	1138	A
25	6	1140	G
25	6	1155	G
25	6	1158	C
25	6	1159	C
25	6	1160	A
25	6	1167	G
25	6	1185	U
25	6	1186	U
25	6	1194	A
25	6	1196	A
25	6	1199	G
25	6	1200	G
25	6	1202	A
25	6	1217	A
25	6	1218	G
25	6	1220	C
25	6	1228	G
25	6	1229	G
25	6	1230	A
25	6	1231	U
25	6	1241	G
25	6	1243	G
25	6	1245	G
25	6	1246	C
25	6	1255	G
25	6	1256	A
25	6	1257	U
25	6	1258	U
25	6	1275	A
25	6	1286	U

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Mol	Chain	Res	Type
25	6	1291	G
25	6	1306	C
25	6	1314	U
25	6	1315	U
25	6	1316	G
25	6	1321	A
25	6	1341	A
25	6	1344	A
25	6	1345	A
25	6	1346	A
25	6	1354	G
25	6	1361	U
25	6	1363	U
25	6	1364	G
25	6	1367	G
25	6	1371	A
25	6	1372	U
25	6	1383	G
25	6	1388	A
25	6	1390	U
25	6	1398	U
25	6	1400	A
25	6	1402	G
25	6	1413	U
25	6	1414	U
25	6	1415	U
25	6	1427	A
25	6	1428	G
25	6	1429	G
25	6	1445	G
25	6	1446	A
25	6	1448	G
25	6	1458	G
25	6	1459	C
25	6	1461	C
25	6	1471	A
25	6	1482	C
25	6	1490	C
25	6	1491	U
25	6	1492	A
25	6	1493	A
25	6	1506	G

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Mol	Chain	Res	Type
25	6	1514	U
25	6	1516	A
25	6	1521	G
25	6	1523	G
25	6	1524	A
25	6	1535	U
25	6	1536	G
25	6	1537	C
25	6	1538	U
25	6	1540	G
25	6	1554	U
25	6	1557	U
25	6	1559	A
25	6	1569	A
25	6	1573	A
25	6	1574	G
25	6	1575	G
25	6	1584	G
25	6	1601	G
25	6	1603	U
25	6	1616	G
25	6	1621	U
25	6	1634	C
25	6	1657	U
25	6	1658	G
25	6	1696	G
25	6	1698	G
25	6	1699	G
25	6	1700	C
25	6	1701	A
25	6	1702	A
25	6	1703	C
25	6	1712	A
25	6	1713	G
25	6	1717	G
25	6	1731	A
25	6	1742	U
25	6	1760	G
25	6	1762	A
25	6	1766	A
25	6	1767	G
25	6	1769	U

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Mol	Chain	Res	Type
25	6	1780	G
25	6	1782	A
25	6	1783	C
25	6	1792	G
25	6	1793	G
25	6	1794	A
25	6	1796	C
25	6	1799	U
25	6	1800	A
1	AR	26	A
1	AR	40	A
1	AR	43	A
1	AR	49	A
1	AR	57	A
1	AR	59	G
1	AR	60	A
1	AR	65	A
1	AR	66	A
1	AR	76	G
1	AR	92	G
1	AR	93	C
1	AR	99	A
1	AR	109	A
1	AR	110	G
1	AR	116	A
1	AR	120	G
1	AR	121	A
1	AR	122	A
1	AR	133	U
1	AR	135	C
1	AR	136	G
1	AR	156	G
1	AR	157	A
1	AR	165	A
1	AR	166	C
1	AR	172	G
1	AR	173	G
1	AR	182	U
1	AR	187	A
1	AR	190	U
1	AR	191	U
1	AR	192	C

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Mol	Chain	Res	Type
1	AR	200	C
1	AR	210	U
1	AR	211	A
1	AR	213	A
1	AR	218	G
1	AR	219	A
1	AR	224	C
1	AR	231	G
1	AR	234	G
1	AR	240	U
1	AR	241	G
1	AR	243	G
1	AR	245	U
1	AR	249	U
1	AR	250	U
1	AR	251	G
1	AR	252	U
1	AR	253	A
1	AR	269	G
1	AR	286	U
1	AR	295	A
1	AR	298	U
1	AR	315	C
1	AR	316	U
1	AR	323	A
1	AR	329	U
1	AR	339	C
1	AR	349	A
1	AR	350	C
1	AR	351	A
1	AR	370	U
1	AR	376	G
1	AR	390	G
1	AR	398	A
1	AR	399	A
1	AR	401	U
1	AR	402	A
1	AR	403	C
1	AR	404	G
1	AR	421	G
1	AR	422	A
1	AR	436	A

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Mol	Chain	Res	Type
1	AR	439	C
1	AR	440	A
1	AR	495	G
1	AR	503	C
1	AR	516	A
1	AR	520	U
1	AR	521	A
1	AR	523	A
1	AR	535	G
1	AR	543	C
1	AR	544	C
1	AR	546	C
1	AR	549	U
1	AR	551	A
1	AR	552	G
1	AR	555	U
1	AR	557	A
1	AR	559	A
1	AR	578	A
1	AR	579	G
1	AR	588	G
1	AR	589	A
1	AR	592	A
1	AR	600	G
1	AR	604	G
1	AR	609	G
1	AR	611	A
1	AR	612	U
1	AR	620	U
1	AR	621	A
1	AR	623	U
1	AR	637	C
1	AR	638	C
1	AR	649	A
1	AR	660	A
1	AR	677	A
1	AR	681	U
1	AR	683	U
1	AR	691	A
1	AR	705	A
1	AR	712	G
1	AR	715	A

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Mol	Chain	Res	Type
1	AR	716	A
1	AR	726	G
1	AR	727	G
1	AR	764	U
1	AR	766	U
1	AR	767	U
1	AR	776	U
1	AR	777	U
1	AR	780	A
1	AR	781	G
1	AR	785	G
1	AR	799	G
1	AR	800	G
1	AR	806	A
1	AR	816	A
1	AR	817	A
1	AR	830	A
1	AR	849	C
1	AR	861	C
1	AR	869	G
1	AR	874	U
1	AR	879	U
1	AR	890	C
1	AR	894	G
1	AR	896	A
1	AR	907	G
1	AR	908	G
1	AR	910	G
1	AR	914	A
1	AR	916	G
1	AR	917	A
1	AR	921	A
1	AR	923	C
1	AR	937	G
1	AR	944	C
1	AR	959	C
1	AR	960	U
1	AR	964	G
1	AR	974	G
1	AR	979	U
1	AR	980	A
1	AR	981	U

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Mol	Chain	Res	Type
1	AR	982	C
1	AR	993	G
1	AR	994	G
1	AR	1000	C
1	AR	1002	A
1	AR	1006	A
1	AR	1010	G
1	AR	1015	U
1	AR	1017	C
1	AR	1018	G
1	AR	1020	G
1	AR	1021	G
1	AR	1024	G
1	AR	1029	G
1	AR	1036	A
1	AR	1047	A
1	AR	1049	C
1	AR	1064	A
1	AR	1065	A
1	AR	1072	G
1	AR	1081	U
1	AR	1082	U
1	AR	1093	A
1	AR	1094	U
1	AR	1095	U
1	AR	1096	U
1	AR	1097	G
1	AR	1098	A
1	AR	1103	A
1	AR	1104	G
1	AR	1117	G
1	AR	1131	G
1	AR	1134	G
1	AR	1153	A
1	AR	1159	A
1	AR	1160	C
1	AR	1180	A
1	AR	1181	U
1	AR	1191	U
1	AR	1192	C
1	AR	1201	C
1	AR	1202	A

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Mol	Chain	Res	Type
1	AR	1209	G
1	AR	1217	A
1	AR	1222	G
1	AR	1235	U
1	AR	1236	G
1	AR	1237	G
1	AR	1239	C
1	AR	1241	U
1	AR	1242	G
1	AR	1245	A
1	AR	1246	G
1	AR	1258	U
1	AR	1262	G
1	AR	1263	A
1	AR	1264	G
1	AR	1266	G
1	AR	1285	G
1	AR	1292	C
1	AR	1294	A
1	AR	1307	G
1	AR	1308	A
1	AR	1309	U
1	AR	1313	G
1	AR	1330	A
1	AR	1332	A
1	AR	1348	U
1	AR	1349	G
1	AR	1351	U
1	AR	1352	A
1	AR	1353	U
1	AR	1355	A
1	AR	1356	U
1	AR	1357	G
1	AR	1385	C
1	AR	1386	A
1	AR	1391	C
1	AR	1392	G
1	AR	1399	A
1	AR	1400	G
1	AR	1419	A
1	AR	1428	A
1	AR	1431	G

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Mol	Chain	Res	Type
1	AR	1432	C
1	AR	1434	G
1	AR	1437	C
1	AR	1438	U
1	AR	1446	A
1	AR	1450	G
1	AR	1455	U
1	AR	1468	A
1	AR	1481	A
1	AR	1482	A
1	AR	1488	G
1	AR	1490	A
1	AR	1496	C
1	AR	1508	C
1	AR	1527	C
1	AR	1533	U
1	AR	1536	G
1	AR	1549	U
1	AR	1555	U
1	AR	1556	C
1	AR	1560	G
1	AR	1562	C
1	AR	1563	C
1	AR	1567	U
1	AR	1568	U
1	AR	1569	U
1	AR	1570	U
1	AR	1572	U
1	AR	1576	G
1	AR	1579	C
1	AR	1580	A
1	AR	1581	C
1	AR	1582	C
1	AR	1583	A
1	AR	1584	U
1	AR	1587	A
1	AR	1589	A
1	AR	1607	U
1	AR	1620	U
1	AR	1629	U
1	AR	1639	C
1	AR	1643	A

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Mol	Chain	Res	Type
1	AR	1645	U
1	AR	1657	C
1	AR	1683	A
1	AR	1717	U
1	AR	1724	U
1	AR	1725	C
1	AR	1736	G
1	AR	1741	A
1	AR	1750	A
1	AR	1751	G
1	AR	1762	C
1	AR	1765	U
1	AR	1766	G
1	AR	1769	G
1	AR	1770	G
1	AR	1780	G
1	AR	1793	C
1	AR	1795	U
1	AR	1797	A
1	AR	1810	A
1	AR	1812	G
1	AR	1814	A
1	AR	1815	U
1	AR	1816	A
1	AR	1817	G
1	AR	1819	U
1	AR	1820	U
1	AR	1821	U
1	AR	1835	A
1	AR	1839	A
1	AR	1841	A
1	AR	1842	A
1	AR	1846	C
1	AR	1849	C
1	AR	1850	A
1	AR	1878	G
1	AR	1880	U
1	AR	1886	A
1	AR	1895	A
1	AR	1906	G
1	AR	1952	G
1	AR	1953	G

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Mol	Chain	Res	Type
1	AR	1954	G
1	AR	2094	C
1	AR	2101	C
1	AR	2102	U
1	AR	2112	U
1	AR	2113	A
1	AR	2114	C
1	AR	2121	G
1	AR	2122	G
1	AR	2126	A
1	AR	2131	A
1	AR	2144	A
1	AR	2149	A
1	AR	2155	G
1	AR	2158	A
1	AR	2169	G
1	AR	2174	G
1	AR	2187	G
1	AR	2188	A
1	AR	2205	U
1	AR	2210	G
1	AR	2223	A
1	AR	2225	U
1	AR	2228	A
1	AR	2244	A
1	AR	2252	A
1	AR	2253	G
1	AR	2254	U
1	AR	2255	A
1	AR	2256	A
1	AR	2261	G
1	AR	2264	U
1	AR	2269	U
1	AR	2270	A
1	AR	2273	G
1	AR	2279	A
1	AR	2281	A
1	AR	2282	U
1	AR	2283	G
1	AR	2288	G
1	AR	2298	U
1	AR	2307	G

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Mol	Chain	Res	Type
1	AR	2310	U
1	AR	2313	A
1	AR	2314	U
1	AR	2315	G
1	AR	2334	U
1	AR	2336	U
1	AR	2372	A
1	AR	2373	A
1	AR	2374	C
1	AR	2375	G
1	AR	2385	G
1	AR	2393	G
1	AR	2394	G
1	AR	2397	A
1	AR	2401	A
1	AR	2402	A
1	AR	2403	G
1	AR	2404	A
1	AR	2411	U
1	AR	2418	G
1	AR	2419	A
1	AR	2443	A
1	AR	2444	C
1	AR	2445	A
1	AR	2502	A
1	AR	2503	G
1	AR	2504	U
1	AR	2508	U
1	AR	2511	A
1	AR	2514	U
1	AR	2515	A
1	AR	2522	G
1	AR	2523	A
1	AR	2530	G
1	AR	2531	C
1	AR	2532	U
1	AR	2533	G
1	AR	2536	A
1	AR	2537	U
1	AR	2538	U
1	AR	2539	C
1	AR	2540	A

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Mol	Chain	Res	Type
1	AR	2541	U
1	AR	2542	U
1	AR	2543	U
1	AR	2547	A
1	AR	2549	G
1	AR	2552	C
1	AR	2554	A
1	AR	2555	G
1	AR	2561	A
1	AR	2569	A
1	AR	2570	U
1	AR	2571	U
1	AR	2572	C
1	AR	2573	G
1	AR	2581	U
1	AR	2585	G
1	AR	2589	G
1	AR	2593	A
1	AR	2594	C
1	AR	2606	G
1	AR	2607	G
1	AR	2614	G
1	AR	2619	G
1	AR	2638	C
1	AR	2652	U
1	AR	2656	A
1	AR	2657	A
1	AR	2674	A
1	AR	2677	G
1	AR	2689	A
1	AR	2691	A
1	AR	2694	A
1	AR	2696	A
1	AR	2705	A
1	AR	2714	G
1	AR	2727	A
1	AR	2728	G
1	AR	2729	U
1	AR	2740	A
1	AR	2752	U
1	AR	2753	G
1	AR	2762	A

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Mol	Chain	Res	Type
1	AR	2771	U
1	AR	2772	C
1	AR	2777	G
1	AR	2778	G
1	AR	2791	G
1	AR	2796	G
1	AR	2800	G
1	AR	2801	A
1	AR	2810	C
1	AR	2814	G
1	AR	2816	G
1	AR	2817	A
1	AR	2818	U
1	AR	2819	A
1	AR	2829	U
1	AR	2842	U
1	AR	2843	U
1	AR	2845	A
1	AR	2859	U
1	AR	2860	U
1	AR	2867	C
1	AR	2871	G
1	AR	2872	A
1	AR	2873	U
1	AR	2880	U
1	AR	2887	A
1	AR	2896	A
1	AR	2899	C
1	AR	2923	U
1	AR	2929	C
1	AR	2935	U
1	AR	2936	A
1	AR	2945	G
1	AR	2947	G
1	AR	2951	G
1	AR	2954	U
1	AR	2957	G
1	AR	2971	A
1	AR	2983	C
1	AR	2990	G
1	AR	2996	U
1	AR	2997	G

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Mol	Chain	Res	Type
1	AR	3012	A
1	AR	3049	A
1	AR	3055	U
1	AR	3056	U
1	AR	3059	G
1	AR	3078	U
1	AR	3079	U
1	AR	3081	C
1	AR	3086	A
1	AR	3092	C
1	AR	3100	U
1	AR	3104	U
1	AR	3122	A
1	AR	3130	A
1	AR	3131	U
1	AR	3142	A
1	AR	3143	C
1	AR	3151	U
1	AR	3153	U
1	AR	3154	C
1	AR	3155	U
1	AR	3156	U
1	AR	3157	U
1	AR	3165	A
1	AR	3167	A
1	AR	3168	A
1	AR	3170	A
1	AR	3173	G
1	AR	3174	A
1	AR	3176	G
1	AR	3179	U
1	AR	3181	C
1	AR	3187	A
1	AR	3195	U
1	AR	3197	G
1	AR	3198	U
1	AR	3199	G
1	AR	3207	U
1	AR	3210	A
1	AR	3217	C
1	AR	3218	A
1	AR	3219	G

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Mol	Chain	Res	Type
1	AR	3223	A
1	AR	3224	G
1	AR	3228	C
1	AR	3229	G
1	AR	3235	C
1	AR	3245	A
1	AR	3246	G
1	AR	3247	G
1	AR	3253	G
1	AR	3259	U
1	AR	3269	U
1	AR	3270	U
1	AR	3276	G
1	AR	3277	U
1	AR	3281	U
1	AR	3286	G
1	AR	3289	G
1	AR	3294	A
1	AR	3295	A
1	AR	3304	U
1	AR	3313	U
1	AR	3316	A
1	AR	3317	U
1	AR	3318	G
1	AR	3319	U
1	AR	3320	A
1	AR	3330	A
1	AR	3333	G
1	AR	3341	U
1	AR	3345	G
1	AR	3347	A
1	AR	3350	C
1	AR	3351	U
1	AR	3352	U
1	AR	3353	G
1	AR	3354	U
1	AR	3355	U
1	AR	3356	G
1	AR	3359	A
1	AR	3369	G
1	AR	3375	A
1	AR	3376	A

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Mol	Chain	Res	Type
1	AR	3378	C
1	AR	3389	U
1	AR	3390	G
1	AR	3396	U
2	AS	18	C
2	AS	22	A
2	AS	26	C
2	AS	33	U
2	AS	41	G
2	AS	53	U
2	AS	54	U
2	AS	60	G
2	AS	65	G
2	AS	73	C
2	AS	74	C
2	AS	99	G
2	AS	102	A
2	AS	112	G
2	AS	121	U
3	AT	2	A
3	AT	21	C
3	AT	34	U
3	AT	35	C
3	AT	48	A
3	AT	59	A
3	AT	62	C
3	AT	63	G
3	AT	80	A
3	AT	81	U
3	AT	82	U
3	AT	83	C
3	AT	85	G
3	AT	86	U
3	AT	87	G
3	AT	90	U
3	AT	95	G
3	AT	97	A
3	AT	99	C
3	AT	104	A
3	AT	106	C
3	AT	111	A
3	AT	113	U

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Mol	Chain	Res	Type
3	AT	125	U
3	AT	126	A
3	AT	151	C
3	AT	152	G
3	AT	155	A
25	A	2	A
25	A	4	C
25	A	25	C
25	A	26	A
25	A	27	U
25	A	34	G
25	A	45	U
25	A	46	A
25	A	47	A
25	A	57	G
25	A	60	U
25	A	67	A
25	A	68	A
25	A	69	G
25	A	72	A
25	A	73	U
25	A	74	U
25	A	75	U
25	A	95	G
25	A	104	A
25	A	111	U
25	A	114	C
25	A	116	U
25	A	130	C
25	A	131	C
25	A	132	U
25	A	133	U
25	A	134	U
25	A	135	A
25	A	136	C
25	A	137	U
25	A	140	A
25	A	141	U
25	A	144	U
25	A	145	A
25	A	146	U
25	A	153	G

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Mol	Chain	Res	Type
25	A	158	U
25	A	159	U
25	A	176	C
25	A	178	U
25	A	185	U
25	A	186	C
25	A	187	G
25	A	188	A
25	A	190	C
25	A	191	C
25	A	192	U
25	A	193	U
25	A	194	U
25	A	195	G
25	A	196	G
25	A	197	A
25	A	200	A
25	A	215	A
25	A	218	A
25	A	219	A
25	A	220	A
25	A	226	A
25	A	228	G
25	A	229	U
25	A	233	C
25	A	234	G
25	A	235	G
25	A	238	U
25	A	239	C
25	A	240	U
25	A	241	U
25	A	242	U
25	A	250	C
25	A	260	U
25	A	261	U
25	A	262	U
25	A	265	A
25	A	271	A
25	A	272	U
25	A	277	U
25	A	278	U
25	A	279	G

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Mol	Chain	Res	Type
25	A	280	U
25	A	281	G
25	A	288	A
25	A	290	G
25	A	299	A
25	A	302	U
25	A	308	C
25	A	309	C
25	A	314	C
25	A	316	A
25	A	319	U
25	A	321	C
25	A	333	A
25	A	337	G
25	A	338	C
25	A	352	A
25	A	359	A
25	A	360	A
25	A	361	C
25	A	378	A
25	A	390	G
25	A	400	A
25	A	401	A
25	A	402	C
25	A	404	G
25	A	416	A
25	A	418	G
25	A	424	C
25	A	425	A
25	A	426	G
25	A	434	G
25	A	437	A
25	A	439	U
25	A	440	U
25	A	444	C
25	A	448	C
25	A	468	A
25	A	469	C
25	A	477	A
25	A	484	C
25	A	485	A
25	A	488	G

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Mol	Chain	Res	Type
25	A	493	U
25	A	494	U
25	A	495	C
25	A	496	G
25	A	497	G
25	A	498	G
25	A	499	U
25	A	500	C
25	A	502	U
25	A	504	U
25	A	505	A
25	A	506	A
25	A	507	U
25	A	510	G
25	A	511	A
25	A	512	A
25	A	513	U
25	A	514	G
25	A	515	A
25	A	527	A
25	A	532	U
25	A	536	C
25	A	537	G
25	A	538	A
25	A	539	G
25	A	540	G
25	A	541	A
25	A	542	A
25	A	543	C
25	A	544	A
25	A	555	A
25	A	556	A
25	A	557	G
25	A	558	U
25	A	565	C
25	A	579	A
25	A	580	A
25	A	594	A
25	A	595	G
25	A	596	C
25	A	611	U
25	A	619	A

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Mol	Chain	Res	Type
25	A	620	A
25	A	621	A
25	A	622	A
25	A	623	A
25	A	624	G
25	A	639	U
25	A	650	U
25	A	653	C
25	A	654	C
25	A	656	G
25	A	658	C
25	A	677	G
25	A	680	U
25	A	684	A
25	A	685	A
25	A	686	C
25	A	694	U
25	A	696	C
25	A	697	C
25	A	700	C
25	A	702	G
25	A	703	G
25	A	704	C
25	A	705	U
25	A	707	A
25	A	708	C
25	A	709	C
25	A	710	U
25	A	711	U
25	A	712	G
25	A	714	G
25	A	717	C
25	A	718	U
25	A	719	U
25	A	720	G
25	A	721	U
25	A	722	G
25	A	723	G
25	A	725	U
25	A	727	U
25	A	730	G
25	A	731	C

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Mol	Chain	Res	Type
25	A	732	G
25	A	733	A
25	A	734	A
25	A	735	C
25	A	736	C
25	A	737	A
25	A	738	G
25	A	742	U
25	A	743	U
25	A	754	A
25	A	755	A
25	A	756	A
25	A	765	G
25	A	766	U
25	A	774	A
25	A	775	G
25	A	778	G
25	A	781	U
25	A	782	U
25	A	783	G
25	A	784	C
25	A	787	G
25	A	789	A
25	A	794	U
25	A	812	A
25	A	815	G
25	A	816	G
25	A	818	C
25	A	819	G
25	A	820	U
25	A	821	U
25	A	824	G
25	A	830	U
25	A	831	U
25	A	833	U
25	A	856	A
25	A	860	U
25	A	863	A
25	A	864	U
25	A	886	U
25	A	898	A
25	A	912	U

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Mol	Chain	Res	Type
25	A	913	G
25	A	914	G
25	A	915	A
25	A	916	U
25	A	933	A
25	A	935	U
25	A	942	G
25	A	951	A
25	A	960	U
25	A	966	A
25	A	988	A
25	A	992	A
25	A	993	A
25	A	1003	A
25	A	1004	U
25	A	1005	A
25	A	1025	A
25	A	1026	A
25	A	1028	C
25	A	1039	A
25	A	1040	G
25	A	1052	U
25	A	1053	G
25	A	1058	U
25	A	1060	U
25	A	1061	A
25	A	1074	G
25	A	1079	U
25	A	1082	C
25	A	1086	A
25	A	1091	A
25	A	1092	A
25	A	1093	A
25	A	1096	C
25	A	1097	U
25	A	1100	G
25	A	1101	G
25	A	1109	G
25	A	1138	A
25	A	1139	A
25	A	1146	G
25	A	1151	A

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Mol	Chain	Res	Type
25	A	1157	A
25	A	1158	C
25	A	1160	A
25	A	1167	G
25	A	1185	U
25	A	1191	U
25	A	1194	A
25	A	1196	A
25	A	1197	C
25	A	1199	G
25	A	1200	G
25	A	1202	A
25	A	1207	C
25	A	1208	A
25	A	1217	A
25	A	1218	G
25	A	1227	A
25	A	1229	G
25	A	1243	G
25	A	1244	A
25	A	1245	G
25	A	1251	U
25	A	1252	C
25	A	1275	A
25	A	1286	U
25	A	1314	U
25	A	1315	U
25	A	1316	G
25	A	1321	A
25	A	1339	C
25	A	1340	U
25	A	1341	A
25	A	1344	A
25	A	1345	A
25	A	1357	A
25	A	1362	U
25	A	1363	U
25	A	1364	G
25	A	1370	U
25	A	1371	A
25	A	1383	G
25	A	1390	U

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Mol	Chain	Res	Type
25	A	1398	U
25	A	1399	C
25	A	1400	A
25	A	1412	G
25	A	1413	U
25	A	1414	U
25	A	1415	U
25	A	1418	G
25	A	1427	A
25	A	1428	G
25	A	1431	C
25	A	1446	A
25	A	1459	C
25	A	1461	C
25	A	1471	A
25	A	1473	U
25	A	1474	G
25	A	1475	A
25	A	1482	C
25	A	1486	G
25	A	1489	U
25	A	1490	C
25	A	1491	U
25	A	1492	A
25	A	1493	A
25	A	1506	G
25	A	1516	A
25	A	1517	U
25	A	1521	G
25	A	1523	G
25	A	1524	A
25	A	1535	U
25	A	1536	G
25	A	1537	C
25	A	1538	U
25	A	1542	G
25	A	1557	U
25	A	1559	A
25	A	1569	A
25	A	1572	G
25	A	1574	G
25	A	1584	G

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Mol	Chain	Res	Type
25	A	1601	G
25	A	1614	A
25	A	1616	G
25	A	1619	C
25	A	1626	U
25	A	1631	A
25	A	1634	C
25	A	1635	A
25	A	1657	U
25	A	1658	G
25	A	1683	C
25	A	1684	U
25	A	1698	G
25	A	1699	G
25	A	1700	C
25	A	1701	A
25	A	1702	A
25	A	1703	C
25	A	1711	C
25	A	1712	A
25	A	1713	G
25	A	1715	G
25	A	1731	A
25	A	1732	A
25	A	1760	G
25	A	1762	A
25	A	1766	A
25	A	1769	U
25	A	1780	G
25	A	1782	A
25	A	1783	C
25	A	1792	G
25	A	1793	G
25	A	1794	A
25	A	1795	U
25	A	1796	C

All (186) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1	43	A
1	1	65	A

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Mol	Chain	Res	Type
1	1	210	U
1	1	239	G
1	1	282	G
1	1	547	G
1	1	588	G
1	1	763	G
1	1	873	C
1	1	916	G
1	1	979	U
1	1	981	U
1	1	993	G
1	1	1064	A
1	1	1094	U
1	1	1097	G
1	1	1103	A
1	1	1273	A
1	1	1307	G
1	1	1329	U
1	1	1352	A
1	1	1355	A
1	1	1554	U
1	1	1562	C
1	1	1568	U
1	1	1716	U
1	1	1816	A
1	1	1820	U
1	1	2101	C
1	1	2112	U
1	1	2209	U
1	1	2227	C
1	1	2249	G
1	1	2372	A
1	1	2418	G
1	1	2525	G
1	1	2537	U
1	1	2541	U
1	1	2593	A
1	1	2801	A
1	1	2818	U
1	1	3078	U
1	1	3121	U
1	1	3218	A

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Mol	Chain	Res	Type
1	1	3228	C
1	1	3269	U
1	1	3275	U
1	1	3319	U
1	1	3350	C
1	1	3351	U
1	1	3353	G
3	4	85	G
3	4	125	U
25	6	25	C
25	6	114	C
25	6	139	C
25	6	158	U
25	6	187	G
25	6	217	A
25	6	272	U
25	6	400	A
25	6	417	A
25	6	512	A
25	6	542	A
25	6	558	U
25	6	755	A
25	6	829	A
25	6	834	G
25	6	913	G
25	6	1051	G
25	6	1058	U
25	6	1081	A
25	6	1097	U
25	6	1244	A
25	6	1255	G
25	6	1344	A
25	6	1481	C
25	6	1489	U
25	6	1535	U
25	6	1568	C
25	6	1573	A
25	6	1620	C
25	6	1657	U
1	AR	210	U
1	AR	588	G
1	AR	637	C

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Mol	Chain	Res	Type
1	AR	715	A
1	AR	873	C
1	AR	916	G
1	AR	979	U
1	AR	981	U
1	AR	993	G
1	AR	1064	A
1	AR	1097	G
1	AR	1103	A
1	AR	1190	A
1	AR	1238	C
1	AR	1241	U
1	AR	1284	C
1	AR	1307	G
1	AR	1329	U
1	AR	1331	U
1	AR	1352	A
1	AR	1355	A
1	AR	1481	A
1	AR	1514	G
1	AR	1554	U
1	AR	1562	C
1	AR	1792	C
1	AR	1815	U
1	AR	1816	A
1	AR	1820	U
1	AR	1846	C
1	AR	2101	C
1	AR	2112	U
1	AR	2209	U
1	AR	2252	A
1	AR	2255	A
1	AR	2260	U
1	AR	2269	U
1	AR	2418	G
1	AR	2537	U
1	AR	2541	U
1	AR	2801	A
1	AR	2818	U
1	AR	3078	U
1	AR	3121	U
1	AR	3218	A

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Mol	Chain	Res	Type
1	AR	3228	C
1	AR	3269	U
1	AR	3276	G
1	AR	3319	U
1	AR	3350	C
1	AR	3375	A
2	AS	52	G
2	AS	111	U
3	AT	82	U
3	AT	85	G
3	AT	125	U
25	A	25	C
25	A	45	U
25	A	68	A
25	A	73	U
25	A	130	C
25	A	131	C
25	A	139	C
25	A	158	U
25	A	187	G
25	A	218	A
25	A	240	U
25	A	278	U
25	A	280	U
25	A	417	A
25	A	497	G
25	A	499	U
25	A	501	U
25	A	503	G
25	A	512	A
25	A	555	A
25	A	685	A
25	A	704	C
25	A	720	G
25	A	721	U
25	A	755	A
25	A	782	U
25	A	811	A
25	A	829	A
25	A	913	G
25	A	1051	G
25	A	1081	A

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Mol	Chain	Res	Type
25	A	1157	A
25	A	1196	A
25	A	1207	C
25	A	1226	A
25	A	1244	A
25	A	1250	U
25	A	1339	C
25	A	1344	A
25	A	1370	U
25	A	1481	C
25	A	1568	C
25	A	1573	A
25	A	1615	C
25	A	1657	U
25	A	1698	G
25	A	1761	U

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 2494 ligands modelled in this entry, 1422 are monoatomic - leaving 1072 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	$\# Z > 2$
84	OHX	DL	102	-	0,6,6	-	-	-		
84	OHX	AR	3702	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3435	-	0,6,6	-	-	-		
84	OHX	1	3455	-	0,6,6	-	-	-		
84	OHX	6	2024	-	0,6,6	-	-	-		
84	OHX	AR	3650	-	0,6,6	-	-	-		
84	OHX	AS	205	-	0,6,6	-	-	-		
84	OHX	A	1952	-	0,6,6	-	-	-		
84	OHX	A	1969	-	0,6,6	-	-	-		
84	OHX	AR	3545	-	0,6,6	-	-	-		
84	OHX	1	3422	-	0,6,6	-	-	-		
84	OHX	AR	3534	-	0,6,6	-	-	-		
84	OHX	6	2007	-	0,6,6	-	-	-		
84	OHX	1	3679	-	0,6,6	-	-	-		
84	OHX	1	3555	-	0,6,6	-	-	-		
84	OHX	1	3458	-	0,6,6	-	-	-		
84	OHX	1	3618	-	0,6,6	-	-	-		
84	OHX	6	2032	-	0,6,6	-	-	-		
84	OHX	AR	3487	-	0,6,6	-	-	-		
84	OHX	AR	3522	-	0,6,6	-	-	-		
84	OHX	6	1965	-	0,6,6	-	-	-		
84	OHX	AR	3544	-	0,6,6	-	-	-		
84	OHX	AS	206	-	0,6,6	-	-	-		
84	OHX	1	3547	-	0,6,6	-	-	-		
84	OHX	1	3428	-	0,6,6	-	-	-		
84	OHX	1	401	-	0,6,6	-	-	-		
84	OHX	6	1968	-	0,6,6	-	-	-		
84	OHX	AR	3406	-	0,6,6	-	-	-		
84	OHX	AR	3456	-	0,6,6	-	-	-		
84	OHX	AR	3641	-	0,6,6	-	-	-		
84	OHX	AR	3659	-	0,6,6	-	-	-		
84	OHX	6	2034	-	0,6,6	-	-	-		
84	OHX	AT	220	-	0,6,6	-	-	-		
84	OHX	AR	3454	-	0,6,6	-	-	-		
84	OHX	A	2014	-	0,6,6	-	-	-		
84	OHX	1	3475	-	0,6,6	-	-	-		
84	OHX	A	2030	-	0,6,6	-	-	-		
84	OHX	1	3570	-	0,6,6	-	-	-		
84	OHX	A	2008	-	0,6,6	-	-	-		
84	OHX	1	3731	-	0,6,6	-	-	-		
84	OHX	AR	3617	-	0,6,6	-	-	-		
84	OHX	AR	3424	-	0,6,6	-	-	-		
84	OHX	A	1950	-	0,6,6	-	-	-		
84	OHX	DL	101	-	0,6,6	-	-	-		
84	OHX	1	3626	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3661	-	0,6,6	-	-	-		
84	OHX	1	3631	-	0,6,6	-	-	-		
84	OHX	1	3688	-	0,6,6	-	-	-		
84	OHX	1	3706	-	0,6,6	-	-	-		
84	OHX	AR	3508	-	0,6,6	-	-	-		
84	OHX	AR	3515	-	0,6,6	-	-	-		
84	OHX	1	3417	-	0,6,6	-	-	-		
84	OHX	1	3659	-	0,6,6	-	-	-		
84	OHX	6	1919	-	0,6,6	-	-	-		
84	OHX	6	2026	-	0,6,6	-	-	-		
84	OHX	AR	3401	-	0,6,6	-	-	-		
84	OHX	AR	3575	-	0,6,6	-	-	-		
84	OHX	A	1986	-	0,6,6	-	-	-		
84	OHX	AR	3568	-	0,6,6	-	-	-		
84	OHX	AT	204	-	0,6,6	-	-	-		
84	OHX	1	3465	-	0,6,6	-	-	-		
84	OHX	1	3634	-	0,6,6	-	-	-		
84	OHX	AR	3643	-	0,6,6	-	-	-		
84	OHX	AR	3517	-	0,6,6	-	-	-		
84	OHX	1	3670	-	0,6,6	-	-	-		
84	OHX	AR	3738	-	0,6,6	-	-	-		
84	OHX	AR	3529	-	0,6,6	-	-	-		
84	OHX	1	3729	-	0,6,6	-	-	-		
84	OHX	AR	3586	-	0,6,6	-	-	-		
84	OHX	A	2040	-	0,6,6	-	-	-		
84	OHX	6	1959	-	0,6,6	-	-	-		
84	OHX	1	3527	-	0,6,6	-	-	-		
84	OHX	1	3516	-	0,6,6	-	-	-		
84	OHX	1	3540	-	0,6,6	-	-	-		
84	OHX	1	3620	-	0,6,6	-	-	-		
84	OHX	AR	3491	-	0,6,6	-	-	-		
84	OHX	AR	3635	-	0,6,6	-	-	-		
84	OHX	A	2032	-	0,6,6	-	-	-		
84	OHX	AR	3612	-	0,6,6	-	-	-		
84	OHX	CL	302	-	0,6,6	-	-	-		
84	OHX	6	1912	-	0,6,6	-	-	-		
84	OHX	6	1937	-	0,6,6	-	-	-		
84	OHX	6	1972	-	0,6,6	-	-	-		
84	OHX	1	3551	-	0,6,6	-	-	-		
84	OHX	AR	3601	-	0,6,6	-	-	-		
84	OHX	A	2021	-	0,6,6	-	-	-		
84	OHX	1	3528	-	0,6,6	-	-	-		
84	OHX	AR	3689	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	A	1919	-	0,6,6	-	-	-		
84	OHX	6	1905	-	0,6,6	-	-	-		
84	OHX	k	401	-	0,6,6	-	-	-		
84	OHX	6	2005	-	0,6,6	-	-	-		
84	OHX	A	2035	-	0,6,6	-	-	-		
84	OHX	AR	3664	-	0,6,6	-	-	-		
84	OHX	6	2002	-	0,6,6	-	-	-		
84	OHX	1	3657	-	0,6,6	-	-	-		
84	OHX	6	1955	-	0,6,6	-	-	-		
84	OHX	6	1958	-	0,6,6	-	-	-		
84	OHX	1	3449	-	0,6,6	-	-	-		
84	OHX	A	2018	-	0,6,6	-	-	-		
84	OHX	A	1970	-	0,6,6	-	-	-		
84	OHX	A	1971	-	0,6,6	-	-	-		
84	OHX	CO	201	-	0,6,6	-	-	-		
84	OHX	A	1929	-	0,6,6	-	-	-		
84	OHX	AR	3505	-	0,6,6	-	-	-		
84	OHX	1	3593	-	0,6,6	-	-	-		
84	OHX	AR	3503	-	0,6,6	-	-	-		
84	OHX	AR	3599	-	0,6,6	-	-	-		
84	OHX	1	3606	-	0,6,6	-	-	-		
84	OHX	1	3645	-	0,6,6	-	-	-		
84	OHX	1	3635	-	0,6,6	-	-	-		
84	OHX	A	2009	-	0,6,6	-	-	-		
84	OHX	AR	3651	-	0,6,6	-	-	-		
84	OHX	A	2002	-	0,6,6	-	-	-		
84	OHX	1	3492	-	0,6,6	-	-	-		
84	OHX	AR	3520	-	0,6,6	-	-	-		
84	OHX	6	1918	-	0,6,6	-	-	-		
84	OHX	AR	3518	-	0,6,6	-	-	-		
84	OHX	6	1913	-	0,6,6	-	-	-		
84	OHX	6	1952	-	0,6,6	-	-	-		
84	OHX	AR	3475	-	0,6,6	-	-	-		
84	OHX	AR	3592	-	0,6,6	-	-	-		
84	OHX	AR	3567	-	0,6,6	-	-	-		
84	OHX	4	204	-	0,6,6	-	-	-		
84	OHX	x	202	-	0,6,6	-	-	-		
84	OHX	1	3407	-	0,6,6	-	-	-		
84	OHX	AR	3469	-	0,6,6	-	-	-		
84	OHX	1	3487	-	0,6,6	-	-	-		
84	OHX	A	1994	-	0,6,6	-	-	-		
84	OHX	AR	3691	-	0,6,6	-	-	-		
84	OHX	1	3537	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	3	207	-	0,6,6	-	-	-		
84	OHX	CG	301	-	0,6,6	-	-	-		
84	OHX	1	3406	-	0,6,6	-	-	-		
84	OHX	AT	218	-	0,6,6	-	-	-		
84	OHX	A	1960	-	0,6,6	-	-	-		
84	OHX	AR	3642	-	0,6,6	-	-	-		
84	OHX	4	210	-	0,6,6	-	-	-		
84	OHX	1	3510	-	0,6,6	-	-	-		
84	OHX	AR	3447	-	0,6,6	-	-	-		
84	OHX	CK	201	-	0,6,6	-	-	-		
84	OHX	6	1924	-	0,6,6	-	-	-		
84	OHX	6	1923	-	0,6,6	-	-	-		
84	OHX	AR	3657	-	0,6,6	-	-	-		
84	OHX	1	3617	-	0,6,6	-	-	-		
84	OHX	AR	3605	-	0,6,6	-	-	-		
84	OHX	1	3489	-	0,6,6	-	-	-		
84	OHX	AT	217	-	0,6,6	-	-	-		
84	OHX	6	1970	-	0,6,6	-	-	-		
84	OHX	6	2044	-	0,6,6	-	-	-		
84	OHX	A	2011	-	0,6,6	-	-	-		
84	OHX	1	3401	-	0,6,6	-	-	-		
84	OHX	AR	3587	-	0,6,6	-	-	-		
84	OHX	CG	303	-	0,6,6	-	-	-		
84	OHX	1	3597	-	0,6,6	-	-	-		
84	OHX	1	3517	-	0,6,6	-	-	-		
84	OHX	1	3713	-	0,6,6	-	-	-		
84	OHX	6	1997	-	0,6,6	-	-	-		
84	OHX	AR	3620	-	0,6,6	-	-	-		
84	OHX	1	3543	-	0,6,6	-	-	-		
84	OHX	AT	212	-	0,6,6	-	-	-		
84	OHX	A	1909	-	0,6,6	-	-	-		
84	OHX	A	1967	-	0,6,6	-	-	-		
84	OHX	AR	3490	-	0,6,6	-	-	-		
84	OHX	AR	3701	-	0,6,6	-	-	-		
84	OHX	1	3578	-	0,6,6	-	-	-		
84	OHX	1	3611	-	0,6,6	-	-	-		
84	OHX	AR	3486	-	0,6,6	-	-	-		
84	OHX	AR	3551	-	0,6,6	-	-	-		
84	OHX	1	3410	-	0,6,6	-	-	-		
84	OHX	M	201	-	0,6,6	-	-	-		
84	OHX	AR	3637	-	0,6,6	-	-	-		
84	OHX	1	3535	-	0,6,6	-	-	-		
84	OHX	1	3587	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3704	-	0,6,6	-	-	-		
84	OHX	A	2023	-	0,6,6	-	-	-		
84	OHX	AR	3675	-	0,6,6	-	-	-		
84	OHX	AR	3715	-	0,6,6	-	-	-		
84	OHX	6	1963	-	0,6,6	-	-	-		
84	OHX	1	3411	-	0,6,6	-	-	-		
84	OHX	A	2027	-	0,6,6	-	-	-		
84	OHX	AR	3604	-	0,6,6	-	-	-		
84	OHX	AR	3495	-	0,6,6	-	-	-		
84	OHX	6	1993	-	0,6,6	-	-	-		
84	OHX	AR	3553	-	0,6,6	-	-	-		
84	OHX	AR	3693	-	0,6,6	-	-	-		
84	OHX	1	3711	-	0,6,6	-	-	-		
84	OHX	1	3452	-	0,6,6	-	-	-		
84	OHX	6	1977	-	0,6,6	-	-	-		
84	OHX	A	1916	-	0,6,6	-	-	-		
84	OHX	1	3408	-	0,6,6	-	-	-		
84	OHX	1	3501	-	0,6,6	-	-	-		
84	OHX	3	208	-	0,6,6	-	-	-		
84	OHX	AR	3532	-	0,6,6	-	-	-		
84	OHX	A	1937	-	0,6,6	-	-	-		
84	OHX	1	3601	-	0,6,6	-	-	-		
84	OHX	A	1927	-	0,6,6	-	-	-		
84	OHX	AR	3677	-	0,6,6	-	-	-		
84	OHX	6	2041	-	0,6,6	-	-	-		
84	OHX	AR	3607	-	0,6,6	-	-	-		
84	OHX	AR	3471	-	0,6,6	-	-	-		
84	OHX	1	3718	-	0,6,6	-	-	-		
84	OHX	AR	3441	-	0,6,6	-	-	-		
84	OHX	6	2016	-	0,6,6	-	-	-		
84	OHX	A	1918	-	0,6,6	-	-	-		
84	OHX	6	2028	-	0,6,6	-	-	-		
84	OHX	6	2000	-	0,6,6	-	-	-		
84	OHX	AR	3493	-	0,6,6	-	-	-		
84	OHX	AR	3533	-	0,6,6	-	-	-		
84	OHX	1	3651	-	0,6,6	-	-	-		
84	OHX	AT	215	-	0,6,6	-	-	-		
84	OHX	A	1972	-	0,6,6	-	-	-		
84	OHX	1	3512	-	0,6,6	-	-	-		
84	OHX	DD	102	-	0,6,6	-	-	-		
84	OHX	6	1976	-	0,6,6	-	-	-		
84	OHX	1	3539	-	0,6,6	-	-	-		
84	OHX	1	3667	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3496	-	0,6,6	-	-	-		
84	OHX	A	2037	-	0,6,6	-	-	-		
84	OHX	AR	3432	-	0,6,6	-	-	-		
84	OHX	A	1907	-	0,6,6	-	-	-		
84	OHX	1	3462	-	0,6,6	-	-	-		
84	OHX	AR	3685	-	0,6,6	-	-	-		
84	OHX	1	3723	-	0,6,6	-	-	-		
84	OHX	e	101	-	0,6,6	-	-	-		
84	OHX	AR	3713	-	0,6,6	-	-	-		
84	OHX	AR	3681	-	0,6,6	-	-	-		
84	OHX	AR	3541	-	0,6,6	-	-	-		
84	OHX	AR	3442	-	0,6,6	-	-	-		
84	OHX	AR	3410	-	0,6,6	-	-	-		
84	OHX	6	2052	-	0,6,6	-	-	-		
84	OHX	AR	3548	-	0,6,6	-	-	-		
84	OHX	AR	3610	-	0,6,6	-	-	-		
84	OHX	AR	3678	-	0,6,6	-	-	-		
84	OHX	A	2029	-	0,6,6	-	-	-		
84	OHX	6	1907	-	0,6,6	-	-	-		
84	OHX	AR	3418	-	0,6,6	-	-	-		
84	OHX	AR	3555	-	0,6,6	-	-	-		
84	OHX	AR	3700	-	0,6,6	-	-	-		
84	OHX	1	3557	-	0,6,6	-	-	-		
84	OHX	AR	3670	-	0,6,6	-	-	-		
84	OHX	A	2042	-	0,6,6	-	-	-		
84	OHX	4	207	-	0,6,6	-	-	-		
84	OHX	AR	3481	-	0,6,6	-	-	-		
84	OHX	1	3473	-	0,6,6	-	-	-		
84	OHX	AR	3513	-	0,6,6	-	-	-		
84	OHX	A	1961	-	0,6,6	-	-	-		
84	OHX	AS	210	-	0,6,6	-	-	-		
84	OHX	A	1939	-	0,6,6	-	-	-		
84	OHX	AR	3429	-	0,6,6	-	-	-		
84	OHX	1	3443	-	0,6,6	-	-	-		
84	OHX	1	3678	-	0,6,6	-	-	-		
84	OHX	1	3579	-	0,6,6	-	-	-		
84	OHX	6	1979	-	0,6,6	-	-	-		
84	OHX	6	2057	-	0,6,6	-	-	-		
84	OHX	c3	201	-	0,6,6	-	-	-		
84	OHX	AR	3708	-	0,6,6	-	-	-		
84	OHX	4	211	-	0,6,6	-	-	-		
84	OHX	1	3700	-	0,6,6	-	-	-		
84	OHX	AR	3559	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3656	-	0,6,6	-	-	-		
84	OHX	1	3569	-	0,6,6	-	-	-		
84	OHX	1	3402	-	0,6,6	-	-	-		
84	OHX	1	3495	-	0,6,6	-	-	-		
84	OHX	1	3439	-	0,6,6	-	-	-		
84	OHX	1	3553	-	0,6,6	-	-	-		
84	OHX	1	3701	-	0,6,6	-	-	-		
84	OHX	1	3426	-	0,6,6	-	-	-		
84	OHX	A	1955	-	0,6,6	-	-	-		
84	OHX	1	3519	-	0,6,6	-	-	-		
84	OHX	AR	3733	-	0,6,6	-	-	-		
84	OHX	AR	3683	-	0,6,6	-	-	-		
84	OHX	A	1912	-	0,6,6	-	-	-		
84	OHX	1	3404	-	0,6,6	-	-	-		
84	OHX	6	1930	-	0,6,6	-	-	-		
84	OHX	AR	3506	-	0,6,6	-	-	-		
84	OHX	1	3675	-	0,6,6	-	-	-		
84	OHX	AR	3590	-	0,6,6	-	-	-		
84	OHX	AS	208	-	0,6,6	-	-	-		
84	OHX	1	3677	-	0,6,6	-	-	-		
84	OHX	1	3660	-	0,6,6	-	-	-		
84	OHX	A	1944	-	0,6,6	-	-	-		
84	OHX	6	1921	-	0,6,6	-	-	-		
84	OHX	AR	3627	-	0,6,6	-	-	-		
84	OHX	AR	3667	-	0,6,6	-	-	-		
84	OHX	6	1928	-	0,6,6	-	-	-		
84	OHX	6	1949	-	0,6,6	-	-	-		
84	OHX	AR	3542	-	0,6,6	-	-	-		
84	OHX	3	203	-	0,6,6	-	-	-		
84	OHX	1	3712	-	0,6,6	-	-	-		
84	OHX	6	1926	-	0,6,6	-	-	-		
84	OHX	6	1934	-	0,6,6	-	-	-		
84	OHX	6	1941	-	0,6,6	-	-	-		
84	OHX	AR	3547	-	0,6,6	-	-	-		
84	OHX	1	3600	-	0,6,6	-	-	-		
84	OHX	A	1913	-	0,6,6	-	-	-		
84	OHX	AT	207	-	0,6,6	-	-	-		
84	OHX	A	1925	-	0,6,6	-	-	-		
84	OHX	1	3642	-	0,6,6	-	-	-		
84	OHX	6	2048	-	0,6,6	-	-	-		
84	OHX	1	3654	-	0,6,6	-	-	-		
84	OHX	AR	3473	-	0,6,6	-	-	-		
84	OHX	1	3496	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	1	3687	-	0,6,6	-	-	-		
84	OHX	6	2021	-	0,6,6	-	-	-		
84	OHX	AR	3603	-	0,6,6	-	-	-		
84	OHX	AR	3571	-	0,6,6	-	-	-		
84	OHX	3	202	-	0,6,6	-	-	-		
84	OHX	AR	3494	-	0,6,6	-	-	-		
84	OHX	6	1999	-	0,6,6	-	-	-		
84	OHX	1	3445	-	0,6,6	-	-	-		
84	OHX	4	206	-	0,6,6	-	-	-		
84	OHX	6	2013	-	0,6,6	-	-	-		
84	OHX	6	2019	-	0,6,6	-	-	-		
84	OHX	6	1909	-	0,6,6	-	-	-		
84	OHX	AR	3561	-	0,6,6	-	-	-		
84	OHX	1	3414	-	0,6,6	-	-	-		
84	OHX	AR	3609	-	0,6,6	-	-	-		
84	OHX	1	3653	-	0,6,6	-	-	-		
84	OHX	6	1946	-	0,6,6	-	-	-		
84	OHX	6	2018	-	0,6,6	-	-	-		
84	OHX	6	2054	-	0,6,6	-	-	-		
84	OHX	1	3610	-	0,6,6	-	-	-		
84	OHX	A	1943	-	0,6,6	-	-	-		
84	OHX	4	203	-	0,6,6	-	-	-		
84	OHX	6	1974	-	0,6,6	-	-	-		
84	OHX	AT	208	-	0,6,6	-	-	-		
84	OHX	1	3488	-	0,6,6	-	-	-		
84	OHX	1	3721	-	0,6,6	-	-	-		
84	OHX	1	3409	-	0,6,6	-	-	-		
84	OHX	1	3572	-	0,6,6	-	-	-		
84	OHX	AR	3611	-	0,6,6	-	-	-		
84	OHX	1	3454	-	0,6,6	-	-	-		
84	OHX	1	3566	-	0,6,6	-	-	-		
84	OHX	AR	3676	-	0,6,6	-	-	-		
84	OHX	1	3429	-	0,6,6	-	-	-		
84	OHX	AR	3438	-	0,6,6	-	-	-		
84	OHX	1	3532	-	0,6,6	-	-	-		
84	OHX	A	1984	-	0,6,6	-	-	-		
84	OHX	AR	3549	-	0,6,6	-	-	-		
84	OHX	AR	3638	-	0,6,6	-	-	-		
84	OHX	AR	3476	-	0,6,6	-	-	-		
84	OHX	AR	3562	-	0,6,6	-	-	-		
84	OHX	1	3534	-	0,6,6	-	-	-		
84	OHX	6	1901	-	0,6,6	-	-	-		
84	OHX	AT	205	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3420	-	0,6,6	-	-	-		
84	OHX	1	3514	-	0,6,6	-	-	-		
84	OHX	A	1965	-	0,6,6	-	-	-		
84	OHX	6	1954	-	0,6,6	-	-	-		
84	OHX	AR	3581	-	0,6,6	-	-	-		
84	OHX	1	3683	-	0,6,6	-	-	-		
84	OHX	AR	3573	-	0,6,6	-	-	-		
84	OHX	A	1936	-	0,6,6	-	-	-		
84	OHX	1	3638	-	0,6,6	-	-	-		
84	OHX	AR	3600	-	0,6,6	-	-	-		
84	OHX	AR	3616	-	0,6,6	-	-	-		
84	OHX	1	3663	-	0,6,6	-	-	-		
84	OHX	AR	3720	-	0,6,6	-	-	-		
84	OHX	CM	201	-	0,6,6	-	-	-		
84	OHX	AR	3582	-	0,6,6	-	-	-		
84	OHX	A	1981	-	0,6,6	-	-	-		
84	OHX	AR	3613	-	0,6,6	-	-	-		
84	OHX	6	2049	-	0,6,6	-	-	-		
84	OHX	AR	3628	-	0,6,6	-	-	-		
84	OHX	1	3692	-	0,6,6	-	-	-		
84	OHX	1	3661	-	0,6,6	-	-	-		
84	OHX	6	1902	-	0,6,6	-	-	-		
84	OHX	1	3556	-	0,6,6	-	-	-		
84	OHX	A	1978	-	0,6,6	-	-	-		
84	OHX	AR	3563	-	0,6,6	-	-	-		
84	OHX	1	3427	-	0,6,6	-	-	-		
84	OHX	AR	3734	-	0,6,6	-	-	-		
84	OHX	1	3705	-	0,6,6	-	-	-		
84	OHX	1	3531	-	0,6,6	-	-	-		
84	OHX	A	2015	-	0,6,6	-	-	-		
84	OHX	1	3530	-	0,6,6	-	-	-		
84	OHX	AR	3709	-	0,6,6	-	-	-		
84	OHX	AR	3624	-	0,6,6	-	-	-		
84	OHX	AR	3445	-	0,6,6	-	-	-		
84	OHX	6	2023	-	0,6,6	-	-	-		
84	OHX	1	3655	-	0,6,6	-	-	-		
84	OHX	1	3668	-	0,6,6	-	-	-		
84	OHX	AR	3510	-	0,6,6	-	-	-		
84	OHX	1	3479	-	0,6,6	-	-	-		
84	OHX	AC	101	-	0,6,6	-	-	-		
84	OHX	A	1979	-	0,6,6	-	-	-		
84	OHX	1	3576	-	0,6,6	-	-	-		
84	OHX	AR	3723	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	1	3571	-	0,6,6	-	-	-		
84	OHX	AR	3632	-	0,6,6	-	-	-		
84	OHX	A	2038	-	0,6,6	-	-	-		
84	OHX	1	3469	-	0,6,6	-	-	-		
84	OHX	1	3494	-	0,6,6	-	-	-		
84	OHX	AR	3431	-	0,6,6	-	-	-		
84	OHX	1	3726	-	0,6,6	-	-	-		
84	OHX	1	3558	-	0,6,6	-	-	-		
84	OHX	A	1954	-	0,6,6	-	-	-		
84	OHX	A	1962	-	0,6,6	-	-	-		
84	OHX	1	3451	-	0,6,6	-	-	-		
84	OHX	1	3609	-	0,6,6	-	-	-		
84	OHX	1	3584	-	0,6,6	-	-	-		
84	OHX	AR	3478	-	0,6,6	-	-	-		
84	OHX	AR	3669	-	0,6,6	-	-	-		
84	OHX	AR	3614	-	0,6,6	-	-	-		
84	OHX	AR	3598	-	0,6,6	-	-	-		
84	OHX	AT	210	-	0,6,6	-	-	-		
84	OHX	AR	3483	-	0,6,6	-	-	-		
84	OHX	6	1973	-	0,6,6	-	-	-		
84	OHX	AR	3426	-	0,6,6	-	-	-		
84	OHX	1	3691	-	0,6,6	-	-	-		
84	OHX	AR	3519	-	0,6,6	-	-	-		
84	OHX	1	3505	-	0,6,6	-	-	-		
84	OHX	1	3599	-	0,6,6	-	-	-		
84	OHX	1	3482	-	0,6,6	-	-	-		
84	OHX	6	1904	-	0,6,6	-	-	-		
84	OHX	6	1956	-	0,6,6	-	-	-		
84	OHX	6	2051	-	0,6,6	-	-	-		
84	OHX	AR	3497	-	0,6,6	-	-	-		
84	OHX	AR	3591	-	0,6,6	-	-	-		
84	OHX	AR	3452	-	0,6,6	-	-	-		
84	OHX	A	1951	-	0,6,6	-	-	-		
84	OHX	A	2017	-	0,6,6	-	-	-		
84	OHX	6	2014	-	0,6,6	-	-	-		
84	OHX	AR	3615	-	0,6,6	-	-	-		
84	OHX	A	1934	-	0,6,6	-	-	-		
84	OHX	1	3676	-	0,6,6	-	-	-		
84	OHX	A	2006	-	0,6,6	-	-	-		
84	OHX	6	1985	-	0,6,6	-	-	-		
84	OHX	DI	201	-	0,6,6	-	-	-		
84	OHX	AR	3402	-	0,6,6	-	-	-		
84	OHX	A	1957	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	A	2041	-	0,6,6	-	-	-		
84	OHX	1	3484	-	0,6,6	-	-	-		
84	OHX	AR	3595	-	0,6,6	-	-	-		
84	OHX	1	3549	-	0,6,6	-	-	-		
84	OHX	6	2056	-	0,6,6	-	-	-		
84	OHX	A	1902	-	0,6,6	-	-	-		
84	OHX	AR	3710	-	0,6,6	-	-	-		
84	OHX	AR	3477	-	0,6,6	-	-	-		
84	OHX	A	1910	-	0,6,6	-	-	-		
84	OHX	AR	3466	-	0,6,6	-	-	-		
84	OHX	1	3515	-	0,6,6	-	-	-		
84	OHX	1	3420	-	0,6,6	-	-	-		
84	OHX	AT	203	-	0,6,6	-	-	-		
84	OHX	AR	3474	-	0,6,6	-	-	-		
84	OHX	AR	3589	-	0,6,6	-	-	-		
84	OHX	AR	3434	-	0,6,6	-	-	-		
84	OHX	AR	3721	-	0,6,6	-	-	-		
84	OHX	1	3450	-	0,6,6	-	-	-		
84	OHX	AR	3660	-	0,6,6	-	-	-		
84	OHX	A	1911	-	0,6,6	-	-	-		
84	OHX	1	3694	-	0,6,6	-	-	-		
84	OHX	6	2029	-	0,6,6	-	-	-		
84	OHX	6	1989	-	0,6,6	-	-	-		
84	OHX	1	3503	-	0,6,6	-	-	-		
84	OHX	AR	3739	-	0,6,6	-	-	-		
84	OHX	1	3504	-	0,6,6	-	-	-		
84	OHX	1	3628	-	0,6,6	-	-	-		
84	OHX	6	2001	-	0,6,6	-	-	-		
84	OHX	AR	3479	-	0,6,6	-	-	-		
84	OHX	1	3563	-	0,6,6	-	-	-		
84	OHX	1	3690	-	0,6,6	-	-	-		
84	OHX	A	1997	-	0,6,6	-	-	-		
84	OHX	AR	3417	-	0,6,6	-	-	-		
84	OHX	A	2022	-	0,6,6	-	-	-		
84	OHX	A	1932	-	0,6,6	-	-	-		
84	OHX	A	1982	-	0,6,6	-	-	-		
84	OHX	1	3582	-	0,6,6	-	-	-		
84	OHX	A	1938	-	0,6,6	-	-	-		
84	OHX	1	3459	-	0,6,6	-	-	-		
84	OHX	A	2012	-	0,6,6	-	-	-		
84	OHX	AR	3703	-	0,6,6	-	-	-		
84	OHX	1	3639	-	0,6,6	-	-	-		
84	OHX	A	1985	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	A	1988	-	0,6,6	-	-	-		
84	OHX	AR	3716	-	0,6,6	-	-	-		
84	OHX	z	201	-	0,6,6	-	-	-		
84	OHX	AR	3409	-	0,6,6	-	-	-		
84	OHX	AR	3682	-	0,6,6	-	-	-		
84	OHX	AR	3467	-	0,6,6	-	-	-		
84	OHX	1	3431	-	0,6,6	-	-	-		
84	OHX	1	3596	-	0,6,6	-	-	-		
84	OHX	r	301	-	0,6,6	-	-	-		
84	OHX	AR	3465	-	0,6,6	-	-	-		
84	OHX	AR	3543	-	0,6,6	-	-	-		
84	OHX	3	206	-	0,6,6	-	-	-		
84	OHX	A	2005	-	0,6,6	-	-	-		
84	OHX	AR	3446	-	0,6,6	-	-	-		
84	OHX	AR	3552	-	0,6,6	-	-	-		
84	OHX	AR	3482	-	0,6,6	-	-	-		
84	OHX	AR	3509	-	0,6,6	-	-	-		
84	OHX	AR	3602	-	0,6,6	-	-	-		
84	OHX	AR	3644	-	0,6,6	-	-	-		
84	OHX	A	2016	-	0,6,6	-	-	-		
84	OHX	AS	204	-	0,6,6	-	-	-		
84	OHX	A	2039	-	0,6,6	-	-	-		
84	OHX	AR	3648	-	0,6,6	-	-	-		
84	OHX	1	3614	-	0,6,6	-	-	-		
84	OHX	1	3491	-	0,6,6	-	-	-		
84	OHX	1	3598	-	0,6,6	-	-	-		
84	OHX	6	1994	-	0,6,6	-	-	-		
84	OHX	1	3483	-	0,6,6	-	-	-		
84	OHX	1	3575	-	0,6,6	-	-	-		
84	OHX	AR	3499	-	0,6,6	-	-	-		
84	OHX	1	3568	-	0,6,6	-	-	-		
84	OHX	1	3509	-	0,6,6	-	-	-		
84	OHX	6	1984	-	0,6,6	-	-	-		
84	OHX	AR	3718	-	0,6,6	-	-	-		
84	OHX	6	1982	-	0,6,6	-	-	-		
84	OHX	AR	3455	-	0,6,6	-	-	-		
84	OHX	6	1908	-	0,6,6	-	-	-		
84	OHX	AK	102	-	0,6,6	-	-	-		
84	OHX	1	3615	-	0,6,6	-	-	-		
84	OHX	A	1930	-	0,6,6	-	-	-		
84	OHX	1	3673	-	0,6,6	-	-	-		
84	OHX	y	201	-	0,6,6	-	-	-		
84	OHX	6	2045	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	1	3493	-	0,6,6	-	-	-		
84	OHX	1	3590	-	0,6,6	-	-	-		
84	OHX	1	3511	-	0,6,6	-	-	-		
84	OHX	AR	3492	-	0,6,6	-	-	-		
84	OHX	A	1935	-	0,6,6	-	-	-		
84	OHX	A	1948	-	0,6,6	-	-	-		
84	OHX	d9	101	-	0,6,6	-	-	-		
84	OHX	AR	3680	-	0,6,6	-	-	-		
84	OHX	AR	3525	-	0,6,6	-	-	-		
84	OHX	AR	3649	-	0,6,6	-	-	-		
84	OHX	c8	201	-	0,6,6	-	-	-		
84	OHX	1	3466	-	0,6,6	-	-	-		
84	OHX	1	3619	-	0,6,6	-	-	-		
84	OHX	AR	3722	-	0,6,6	-	-	-		
84	OHX	1	3434	-	0,6,6	-	-	-		
84	OHX	k	402	-	0,6,6	-	-	-		
84	OHX	AR	3697	-	0,6,6	-	-	-		
84	OHX	A	1995	-	0,6,6	-	-	-		
84	OHX	AR	3658	-	0,6,6	-	-	-		
84	OHX	AR	3566	-	0,6,6	-	-	-		
84	OHX	1	3525	-	0,6,6	-	-	-		
84	OHX	6	2004	-	0,6,6	-	-	-		
84	OHX	1	3486	-	0,6,6	-	-	-		
84	OHX	1	3508	-	0,6,6	-	-	-		
84	OHX	1	3650	-	0,6,6	-	-	-		
84	OHX	6	2011	-	0,6,6	-	-	-		
84	OHX	AR	3459	-	0,6,6	-	-	-		
84	OHX	1	3559	-	0,6,6	-	-	-		
84	OHX	4	201	-	0,6,6	-	-	-		
84	OHX	1	3637	-	0,6,6	-	-	-		
84	OHX	6	1948	-	0,6,6	-	-	-		
84	OHX	AR	3498	-	0,6,6	-	-	-		
84	OHX	AR	3558	-	0,6,6	-	-	-		
84	OHX	AR	3699	-	0,6,6	-	-	-		
84	OHX	1	3442	-	0,6,6	-	-	-		
84	OHX	CF	401	-	0,6,6	-	-	-		
84	OHX	6	1920	-	0,6,6	-	-	-		
84	OHX	1	3684	-	0,6,6	-	-	-		
84	OHX	A	1964	-	0,6,6	-	-	-		
84	OHX	A	1966	-	0,6,6	-	-	-		
84	OHX	A	1922	-	0,6,6	-	-	-		
84	OHX	6	2038	-	0,6,6	-	-	-		
84	OHX	1	3463	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3666	-	0,6,6	-	-	-		
84	OHX	4	205	-	0,6,6	-	-	-		
84	OHX	1	3586	-	0,6,6	-	-	-		
84	OHX	1	3522	-	0,6,6	-	-	-		
84	OHX	1	3460	-	0,6,6	-	-	-		
84	OHX	6	1962	-	0,6,6	-	-	-		
84	OHX	AR	3737	-	0,6,6	-	-	-		
84	OHX	6	2043	-	0,6,6	-	-	-		
84	OHX	1	3467	-	0,6,6	-	-	-		
84	OHX	AR	3437	-	0,6,6	-	-	-		
84	OHX	1	3521	-	0,6,6	-	-	-		
84	OHX	4	212	-	0,6,6	-	-	-		
84	OHX	AR	3535	-	0,6,6	-	-	-		
84	OHX	AR	3636	-	0,6,6	-	-	-		
84	OHX	AR	3717	-	0,6,6	-	-	-		
84	OHX	1	3714	-	0,6,6	-	-	-		
84	OHX	1	3471	-	0,6,6	-	-	-		
84	OHX	1	3703	-	0,6,6	-	-	-		
84	OHX	AR	3411	-	0,6,6	-	-	-		
84	OHX	1	3447	-	0,6,6	-	-	-		
84	OHX	AR	3608	-	0,6,6	-	-	-		
84	OHX	AR	3735	-	0,6,6	-	-	-		
84	OHX	1	3446	-	0,6,6	-	-	-		
84	OHX	1	3552	-	0,6,6	-	-	-		
84	OHX	6	1980	-	0,6,6	-	-	-		
84	OHX	1	3602	-	0,6,6	-	-	-		
84	OHX	1	3506	-	0,6,6	-	-	-		
84	OHX	AR	3403	-	0,6,6	-	-	-		
84	OHX	1	3629	-	0,6,6	-	-	-		
84	OHX	1	3648	-	0,6,6	-	-	-		
84	OHX	AR	3463	-	0,6,6	-	-	-		
84	OHX	AR	3606	-	0,6,6	-	-	-		
84	OHX	6	1933	-	0,6,6	-	-	-		
84	OHX	6	1987	-	0,6,6	-	-	-		
84	OHX	1	3603	-	0,6,6	-	-	-		
84	OHX	1	3481	-	0,6,6	-	-	-		
84	OHX	AR	3569	-	0,6,6	-	-	-		
84	OHX	A	2028	-	0,6,6	-	-	-		
84	OHX	1	3627	-	0,6,6	-	-	-		
84	OHX	A	2001	-	0,6,6	-	-	-		
84	OHX	6	2040	-	0,6,6	-	-	-		
84	OHX	AR	3580	-	0,6,6	-	-	-		
84	OHX	AR	3665	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	A	2034	-	0,6,6	-	-	-		
84	OHX	AK	103	-	0,6,6	-	-	-		
84	OHX	AR	3416	-	0,6,6	-	-	-		
84	OHX	1	3636	-	0,6,6	-	-	-		
84	OHX	1	3715	-	0,6,6	-	-	-		
84	OHX	AR	3448	-	0,6,6	-	-	-		
84	OHX	CV	201	-	0,6,6	-	-	-		
84	OHX	A	1924	-	0,6,6	-	-	-		
84	OHX	1	3490	-	0,6,6	-	-	-		
84	OHX	6	1992	-	0,6,6	-	-	-		
84	OHX	6	1917	-	0,6,6	-	-	-		
84	OHX	A	1905	-	0,6,6	-	-	-		
84	OHX	A	1973	-	0,6,6	-	-	-		
84	OHX	1	3546	-	0,6,6	-	-	-		
84	OHX	1	3604	-	0,6,6	-	-	-		
84	OHX	1	3696	-	0,6,6	-	-	-		
84	OHX	1	3441	-	0,6,6	-	-	-		
84	OHX	AR	3698	-	0,6,6	-	-	-		
84	OHX	CP	501	-	0,6,6	-	-	-		
84	OHX	6	2003	-	0,6,6	-	-	-		
84	OHX	1	3649	-	0,6,6	-	-	-		
84	OHX	6	1906	-	0,6,6	-	-	-		
84	OHX	A	1921	-	0,6,6	-	-	-		
84	OHX	1	3722	-	0,6,6	-	-	-		
84	OHX	A	1999	-	0,6,6	-	-	-		
84	OHX	6	2031	-	0,6,6	-	-	-		
84	OHX	AR	3521	-	0,6,6	-	-	-		
84	OHX	CE	402	-	0,6,6	-	-	-		
84	OHX	AR	3623	-	0,6,6	-	-	-		
84	OHX	6	2030	-	0,6,6	-	-	-		
84	OHX	6	1929	-	0,6,6	-	-	-		
84	OHX	A	1974	-	0,6,6	-	-	-		
84	OHX	1	3444	-	0,6,6	-	-	-		
84	OHX	AR	3583	-	0,6,6	-	-	-		
84	OHX	AR	3618	-	0,6,6	-	-	-		
84	OHX	AR	3516	-	0,6,6	-	-	-		
84	OHX	1	3405	-	0,6,6	-	-	-		
84	OHX	1	3656	-	0,6,6	-	-	-		
84	OHX	DG	201	-	0,6,6	-	-	-		
84	OHX	A	1993	-	0,6,6	-	-	-		
84	OHX	1	3607	-	0,6,6	-	-	-		
84	OHX	1	3565	-	0,6,6	-	-	-		
84	OHX	AR	3647	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3705	-	0,6,6	-	-	-		
84	OHX	AR	3639	-	0,6,6	-	-	-		
84	OHX	6	2042	-	0,6,6	-	-	-		
84	OHX	h	401	-	0,6,6	-	-	-		
84	OHX	6	1940	-	0,6,6	-	-	-		
84	OHX	AR	3619	-	0,6,6	-	-	-		
84	OHX	AR	3502	-	0,6,6	-	-	-		
84	OHX	1	3573	-	0,6,6	-	-	-		
84	OHX	AR	3500	-	0,6,6	-	-	-		
84	OHX	AR	3588	-	0,6,6	-	-	-		
84	OHX	A	1987	-	0,6,6	-	-	-		
84	OHX	AR	3443	-	0,6,6	-	-	-		
84	OHX	1	3577	-	0,6,6	-	-	-		
84	OHX	AR	3671	-	0,6,6	-	-	-		
84	OHX	AT	206	-	0,6,6	-	-	-		
84	OHX	6	1960	-	0,6,6	-	-	-		
84	OHX	AR	3695	-	0,6,6	-	-	-		
84	OHX	AR	3640	-	0,6,6	-	-	-		
84	OHX	1	3591	-	0,6,6	-	-	-		
84	OHX	AR	3673	-	0,6,6	-	-	-		
84	OHX	T	201	-	0,6,6	-	-	-		
84	OHX	DH	201	-	0,6,6	-	-	-		
84	OHX	AR	3423	-	0,6,6	-	-	-		
84	OHX	1	3681	-	0,6,6	-	-	-		
84	OHX	1	3702	-	0,6,6	-	-	-		
84	OHX	AR	3570	-	0,6,6	-	-	-		
84	OHX	1	3624	-	0,6,6	-	-	-		
84	OHX	v	301	-	0,6,6	-	-	-		
84	OHX	1	3403	-	0,6,6	-	-	-		
84	OHX	A	1996	-	0,6,6	-	-	-		
84	OHX	6	1998	-	0,6,6	-	-	-		
84	OHX	A	2024	-	0,6,6	-	-	-		
84	OHX	1	3710	-	0,6,6	-	-	-		
84	OHX	A	2003	-	0,6,6	-	-	-		
84	OHX	1	3544	-	0,6,6	-	-	-		
84	OHX	AR	3436	-	0,6,6	-	-	-		
84	OHX	6	2022	-	0,6,6	-	-	-		
84	OHX	AR	3631	-	0,6,6	-	-	-		
84	OHX	AR	3546	-	0,6,6	-	-	-		
84	OHX	1	3513	-	0,6,6	-	-	-		
84	OHX	6	1938	-	0,6,6	-	-	-		
84	OHX	AR	3527	-	0,6,6	-	-	-		
84	OHX	AR	3696	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	1	3415	-	0,6,6	-	-	-		
84	OHX	A	1915	-	0,6,6	-	-	-		
84	OHX	1	3456	-	0,6,6	-	-	-		
84	OHX	1	3632	-	0,6,6	-	-	-		
84	OHX	Q	201	-	0,6,6	-	-	-		
84	OHX	A	1917	-	0,6,6	-	-	-		
84	OHX	A	1901	-	0,6,6	-	-	-		
84	OHX	AR	3622	-	0,6,6	-	-	-		
84	OHX	1	3658	-	0,6,6	-	-	-		
84	OHX	1	3437	-	0,6,6	-	-	-		
84	OHX	1	3507	-	0,6,6	-	-	-		
84	OHX	AR	3528	-	0,6,6	-	-	-		
84	OHX	1	3697	-	0,6,6	-	-	-		
84	OHX	6	1995	-	0,6,6	-	-	-		
84	OHX	AR	3565	-	0,6,6	-	-	-		
84	OHX	AR	3593	-	0,6,6	-	-	-		
84	OHX	A	1923	-	0,6,6	-	-	-		
84	OHX	AR	3412	-	0,6,6	-	-	-		
84	OHX	1	3698	-	0,6,6	-	-	-		
84	OHX	AR	3421	-	0,6,6	-	-	-		
84	OHX	AR	3679	-	0,6,6	-	-	-		
84	OHX	AR	3504	-	0,6,6	-	-	-		
84	OHX	A	2013	-	0,6,6	-	-	-		
84	OHX	1	3622	-	0,6,6	-	-	-		
84	OHX	AR	3577	-	0,6,6	-	-	-		
84	OHX	1	3562	-	0,6,6	-	-	-		
84	OHX	AR	3449	-	0,6,6	-	-	-		
84	OHX	1	3605	-	0,6,6	-	-	-		
84	OHX	AR	3433	-	0,6,6	-	-	-		
84	OHX	1	3623	-	0,6,6	-	-	-		
84	OHX	AR	3407	-	0,6,6	-	-	-		
84	OHX	A	1956	-	0,6,6	-	-	-		
84	OHX	6	2046	-	0,6,6	-	-	-		
84	OHX	AE	201	-	0,6,6	-	-	-		
84	OHX	AR	3728	-	0,6,6	-	-	-		
84	OHX	6	2010	-	0,6,6	-	-	-		
84	OHX	1	3595	-	0,6,6	-	-	-		
84	OHX	J	301	-	0,6,6	-	-	-		
84	OHX	1	3621	-	0,6,6	-	-	-		
84	OHX	1	3685	-	0,6,6	-	-	-		
84	OHX	1	3730	-	0,6,6	-	-	-		
84	OHX	6	1975	-	0,6,6	-	-	-		
84	OHX	1	3561	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	6	2053	-	0,6,6	-	-	-		
84	OHX	A	1947	-	0,6,6	-	-	-		
84	OHX	A	1998	-	0,6,6	-	-	-		
84	OHX	AR	3458	-	0,6,6	-	-	-		
84	OHX	AR	3550	-	0,6,6	-	-	-		
84	OHX	A	1903	-	0,6,6	-	-	-		
84	OHX	1	3499	-	0,6,6	-	-	-		
84	OHX	s8	301	-	0,6,6	-	-	-		
84	OHX	1	3616	-	0,6,6	-	-	-		
84	OHX	1	3695	-	0,6,6	-	-	-		
84	OHX	1	3640	-	0,6,6	-	-	-		
84	OHX	6	1964	-	0,6,6	-	-	-		
84	OHX	AR	3413	-	0,6,6	-	-	-		
84	OHX	6	2020	-	0,6,6	-	-	-		
84	OHX	AR	3430	-	0,6,6	-	-	-		
84	OHX	6	1922	-	0,6,6	-	-	-		
84	OHX	6	2035	-	0,6,6	-	-	-		
84	OHX	AR	3501	-	0,6,6	-	-	-		
84	OHX	AR	3686	-	0,6,6	-	-	-		
84	OHX	AR	3707	-	0,6,6	-	-	-		
84	OHX	AR	3419	-	0,6,6	-	-	-		
84	OHX	1	3470	-	0,6,6	-	-	-		
84	OHX	1	3477	-	0,6,6	-	-	-		
84	OHX	A	1977	-	0,6,6	-	-	-		
84	OHX	A	1941	-	0,6,6	-	-	-		
84	OHX	AR	3625	-	0,6,6	-	-	-		
84	OHX	AR	3652	-	0,6,6	-	-	-		
84	OHX	AR	3727	-	0,6,6	-	-	-		
84	OHX	6	2055	-	0,6,6	-	-	-		
84	OHX	AT	209	-	0,6,6	-	-	-		
84	OHX	6	1916	-	0,6,6	-	-	-		
84	OHX	1	3425	-	0,6,6	-	-	-		
84	OHX	1	3592	-	0,6,6	-	-	-		
84	OHX	sR	401	-	0,6,6	-	-	-		
84	OHX	6	1927	-	0,6,6	-	-	-		
84	OHX	6	1966	-	0,6,6	-	-	-		
84	OHX	A	1992	-	0,6,6	-	-	-		
84	OHX	6	2047	-	0,6,6	-	-	-		
84	OHX	1	3533	-	0,6,6	-	-	-		
84	OHX	AR	3507	-	0,6,6	-	-	-		
84	OHX	1	3478	-	0,6,6	-	-	-		
84	OHX	AR	3596	-	0,6,6	-	-	-		
84	OHX	A	2033	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3453	-	0,6,6	-	-	-		
84	OHX	AT	219	-	0,6,6	-	-	-		
84	OHX	A	1976	-	0,6,6	-	-	-		
84	OHX	A	1945	-	0,6,6	-	-	-		
84	OHX	6	1932	-	0,6,6	-	-	-		
84	OHX	6	1939	-	0,6,6	-	-	-		
84	OHX	AR	3461	-	0,6,6	-	-	-		
84	OHX	AR	3468	-	0,6,6	-	-	-		
84	OHX	AR	3472	-	0,6,6	-	-	-		
84	OHX	1	3438	-	0,6,6	-	-	-		
84	OHX	AR	3530	-	0,6,6	-	-	-		
84	OHX	AR	3594	-	0,6,6	-	-	-		
84	OHX	AR	3630	-	0,6,6	-	-	-		
84	OHX	AR	3736	-	0,6,6	-	-	-		
84	OHX	1	3613	-	0,6,6	-	-	-		
84	OHX	AR	3574	-	0,6,6	-	-	-		
84	OHX	1	3625	-	0,6,6	-	-	-		
84	OHX	AR	3578	-	0,6,6	-	-	-		
84	OHX	AR	3706	-	0,6,6	-	-	-		
84	OHX	3	204	-	0,6,6	-	-	-		
84	OHX	AR	3524	-	0,6,6	-	-	-		
84	OHX	AR	3694	-	0,6,6	-	-	-		
84	OHX	A	1920	-	0,6,6	-	-	-		
84	OHX	AR	3422	-	0,6,6	-	-	-		
84	OHX	1	3474	-	0,6,6	-	-	-		
84	OHX	AR	3537	-	0,6,6	-	-	-		
84	OHX	AS	207	-	0,6,6	-	-	-		
84	OHX	AR	3439	-	0,6,6	-	-	-		
84	OHX	AR	3690	-	0,6,6	-	-	-		
84	OHX	A	2031	-	0,6,6	-	-	-		
84	OHX	6	1957	-	0,6,6	-	-	-		
84	OHX	AR	3538	-	0,6,6	-	-	-		
84	OHX	A	2000	-	0,6,6	-	-	-		
84	OHX	H	301	-	0,6,6	-	-	-		
84	OHX	AT	211	-	0,6,6	-	-	-		
84	OHX	6	1931	-	0,6,6	-	-	-		
84	OHX	A	1990	-	0,6,6	-	-	-		
84	OHX	1	3560	-	0,6,6	-	-	-		
84	OHX	AR	3554	-	0,6,6	-	-	-		
84	OHX	1	3674	-	0,6,6	-	-	-		
84	OHX	6	2050	-	0,6,6	-	-	-		
84	OHX	6	1953	-	0,6,6	-	-	-		
84	OHX	AR	3714	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3634	-	0,6,6	-	-	-		
84	OHX	1	3585	-	0,6,6	-	-	-		
84	OHX	1	3423	-	0,6,6	-	-	-		
84	OHX	AR	3646	-	0,6,6	-	-	-		
84	OHX	A	1991	-	0,6,6	-	-	-		
84	OHX	CE	403	-	0,6,6	-	-	-		
84	OHX	1	3709	-	0,6,6	-	-	-		
84	OHX	AS	202	-	0,6,6	-	-	-		
84	OHX	1	3720	-	0,6,6	-	-	-		
84	OHX	AR	3536	-	0,6,6	-	-	-		
84	OHX	AR	3692	-	0,6,6	-	-	-		
84	OHX	1	3413	-	0,6,6	-	-	-		
84	OHX	1	3686	-	0,6,6	-	-	-		
84	OHX	1	3707	-	0,6,6	-	-	-		
84	OHX	6	1969	-	0,6,6	-	-	-		
84	OHX	AR	3621	-	0,6,6	-	-	-		
84	OHX	AR	3719	-	0,6,6	-	-	-		
84	OHX	AR	3732	-	0,6,6	-	-	-		
84	OHX	AR	3672	-	0,6,6	-	-	-		
84	OHX	A	1940	-	0,6,6	-	-	-		
84	OHX	A	1949	-	0,6,6	-	-	-		
84	OHX	A	1968	-	0,6,6	-	-	-		
84	OHX	2	201	-	0,6,6	-	-	-		
84	OHX	AR	3662	-	0,6,6	-	-	-		
84	OHX	A	2036	-	0,6,6	-	-	-		
84	OHX	A	1908	-	0,6,6	-	-	-		
84	OHX	AR	3645	-	0,6,6	-	-	-		
84	OHX	AR	3511	-	0,6,6	-	-	-		
84	OHX	AR	3450	-	0,6,6	-	-	-		
84	OHX	6	1914	-	0,6,6	-	-	-		
84	OHX	AR	3556	-	0,6,6	-	-	-		
84	OHX	1	3464	-	0,6,6	-	-	-		
84	OHX	1	3542	-	0,6,6	-	-	-		
84	OHX	1	3672	-	0,6,6	-	-	-		
84	OHX	CZ	201	-	0,6,6	-	-	-		
84	OHX	1	3424	-	0,6,6	-	-	-		
84	OHX	1	3541	-	0,6,6	-	-	-		
84	OHX	A	1983	-	0,6,6	-	-	-		
84	OHX	AR	3560	-	0,6,6	-	-	-		
84	OHX	A	1906	-	0,6,6	-	-	-		
84	OHX	1	3662	-	0,6,6	-	-	-		
84	OHX	1	3724	-	0,6,6	-	-	-		
84	OHX	6	1942	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	A	1904	-	0,6,6	-	-	-		
84	OHX	AR	3404	-	0,6,6	-	-	-		
84	OHX	1	3476	-	0,6,6	-	-	-		
84	OHX	AR	3688	-	0,6,6	-	-	-		
84	OHX	AR	3405	-	0,6,6	-	-	-		
84	OHX	AR	3512	-	0,6,6	-	-	-		
84	OHX	1	3497	-	0,6,6	-	-	-		
84	OHX	AR	3485	-	0,6,6	-	-	-		
84	OHX	1	3472	-	0,6,6	-	-	-		
84	OHX	A	1959	-	0,6,6	-	-	-		
84	OHX	1	3630	-	0,6,6	-	-	-		
84	OHX	1	3574	-	0,6,6	-	-	-		
84	OHX	1	3524	-	0,6,6	-	-	-		
84	OHX	1	3523	-	0,6,6	-	-	-		
84	OHX	1	3728	-	0,6,6	-	-	-		
84	OHX	1	3538	-	0,6,6	-	-	-		
84	OHX	1	3480	-	0,6,6	-	-	-		
84	OHX	A	1980	-	0,6,6	-	-	-		
84	OHX	AT	214	-	0,6,6	-	-	-		
84	OHX	1	3669	-	0,6,6	-	-	-		
84	OHX	1	3708	-	0,6,6	-	-	-		
84	OHX	1	3589	-	0,6,6	-	-	-		
84	OHX	AR	3415	-	0,6,6	-	-	-		
84	OHX	AR	3585	-	0,6,6	-	-	-		
84	OHX	6	1903	-	0,6,6	-	-	-		
84	OHX	6	1943	-	0,6,6	-	-	-		
84	OHX	1	3440	-	0,6,6	-	-	-		
84	OHX	6	2015	-	0,6,6	-	-	-		
84	OHX	6	1915	-	0,6,6	-	-	-		
84	OHX	1	3435	-	0,6,6	-	-	-		
84	OHX	AR	3557	-	0,6,6	-	-	-		
84	OHX	AR	3427	-	0,6,6	-	-	-		
84	OHX	1	3545	-	0,6,6	-	-	-		
84	OHX	AR	3597	-	0,6,6	-	-	-		
84	OHX	A	2025	-	0,6,6	-	-	-		
84	OHX	1	3689	-	0,6,6	-	-	-		
84	OHX	6	1971	-	0,6,6	-	-	-		
84	OHX	1	3526	-	0,6,6	-	-	-		
84	OHX	AR	3712	-	0,6,6	-	-	-		
84	OHX	1	3633	-	0,6,6	-	-	-		
84	OHX	1	3646	-	0,6,6	-	-	-		
84	OHX	6	1986	-	0,6,6	-	-	-		
84	OHX	AR	3579	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	1	3520	-	0,6,6	-	-	-		
84	OHX	AR	3655	-	0,6,6	-	-	-		
84	OHX	AG	201	-	0,6,6	-	-	-		
84	OHX	1	3725	-	0,6,6	-	-	-		
84	OHX	1	3719	-	0,6,6	-	-	-		
84	OHX	1	3567	-	0,6,6	-	-	-		
84	OHX	AR	3464	-	0,6,6	-	-	-		
84	OHX	6	1996	-	0,6,6	-	-	-		
84	OHX	CG	302	-	0,6,6	-	-	-		
84	OHX	1	3433	-	0,6,6	-	-	-		
84	OHX	AR	3687	-	0,6,6	-	-	-		
84	OHX	AR	3653	-	0,6,6	-	-	-		
84	OHX	1	3716	-	0,6,6	-	-	-		
84	OHX	AS	209	-	0,6,6	-	-	-		
84	OHX	1	3682	-	0,6,6	-	-	-		
84	OHX	6	1910	-	0,6,6	-	-	-		
84	OHX	1	3644	-	0,6,6	-	-	-		
84	OHX	1	3453	-	0,6,6	-	-	-		
84	OHX	1	3583	-	0,6,6	-	-	-		
84	OHX	AR	3425	-	0,6,6	-	-	-		
84	OHX	A	1958	-	0,6,6	-	-	-		
84	OHX	CF	402	-	0,6,6	-	-	-		
84	OHX	1	3536	-	0,6,6	-	-	-		
84	OHX	3	201	-	0,6,6	-	-	-		
84	OHX	AR	3488	-	0,6,6	-	-	-		
84	OHX	6	1936	-	0,6,6	-	-	-		
84	OHX	6	1945	-	0,6,6	-	-	-		
84	OHX	4	202	-	0,6,6	-	-	-		
84	OHX	AR	3451	-	0,6,6	-	-	-		
84	OHX	AT	213	-	0,6,6	-	-	-		
84	OHX	1	3412	-	0,6,6	-	-	-		
84	OHX	A	2020	-	0,6,6	-	-	-		
84	OHX	1	3680	-	0,6,6	-	-	-		
84	OHX	1	3704	-	0,6,6	-	-	-		
84	OHX	AR	3539	-	0,6,6	-	-	-		
84	OHX	AR	3462	-	0,6,6	-	-	-		
86	7MB	AR	4239	-	20,23,23	0.90	1 (5%)	18,38,38	0.79	1 (5%)
84	OHX	AR	3489	-	0,6,6	-	-	-		
84	OHX	1	3548	-	0,6,6	-	-	-		
84	OHX	AS	203	-	0,6,6	-	-	-		
84	OHX	6	1978	-	0,6,6	-	-	-		
84	OHX	6	1947	-	0,6,6	-	-	-		
84	OHX	AR	3480	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3523	-	0,6,6	-	-	-		
84	OHX	6	1983	-	0,6,6	-	-	-		
84	OHX	AR	3440	-	0,6,6	-	-	-		
84	OHX	AR	3684	-	0,6,6	-	-	-		
84	OHX	A	1989	-	0,6,6	-	-	-		
84	OHX	1	3432	-	0,6,6	-	-	-		
84	OHX	1	3485	-	0,6,6	-	-	-		
84	OHX	AR	3726	-	0,6,6	-	-	-		
84	OHX	AR	3572	-	0,6,6	-	-	-		
84	OHX	1	3581	-	0,6,6	-	-	-		
84	OHX	A	1928	-	0,6,6	-	-	-		
84	OHX	1	3652	-	0,6,6	-	-	-		
84	OHX	A	1963	-	0,6,6	-	-	-		
84	OHX	A	1926	-	0,6,6	-	-	-		
84	OHX	A	2010	-	0,6,6	-	-	-		
84	OHX	1	3699	-	0,6,6	-	-	-		
84	OHX	1	3457	-	0,6,6	-	-	-		
84	OHX	1	3448	-	0,6,6	-	-	-		
84	OHX	1	3436	-	0,6,6	-	-	-		
84	OHX	AR	3663	-	0,6,6	-	-	-		
84	OHX	4	208	-	0,6,6	-	-	-		
84	OHX	1	3529	-	0,6,6	-	-	-		
84	OHX	AR	3526	-	0,6,6	-	-	-		
84	OHX	6	1961	-	0,6,6	-	-	-		
84	OHX	A	1975	-	0,6,6	-	-	-		
84	OHX	1	3554	-	0,6,6	-	-	-		
84	OHX	6	2027	-	0,6,6	-	-	-		
84	OHX	AR	3730	-	0,6,6	-	-	-		
84	OHX	A	1942	-	0,6,6	-	-	-		
84	OHX	AR	3668	-	0,6,6	-	-	-		
84	OHX	AR	3711	-	0,6,6	-	-	-		
84	OHX	A	2019	-	0,6,6	-	-	-		
84	OHX	1	3612	-	0,6,6	-	-	-		
84	OHX	A	1931	-	0,6,6	-	-	-		
84	OHX	A	1933	-	0,6,6	-	-	-		
84	OHX	1	3498	-	0,6,6	-	-	-		
84	OHX	6	1991	-	0,6,6	-	-	-		
84	OHX	AT	216	-	0,6,6	-	-	-		
84	OHX	c5	201	-	0,6,6	-	-	-		
84	OHX	AR	3633	-	0,6,6	-	-	-		
84	OHX	AR	3408	-	0,6,6	-	-	-		
84	OHX	A	1914	-	0,6,6	-	-	-		
84	OHX	AR	3674	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	6	2033	-	0,6,6	-	-	-		
84	OHX	6	2012	-	0,6,6	-	-	-		
84	OHX	AS	201	-	0,6,6	-	-	-		
84	OHX	1	3717	-	0,6,6	-	-	-		
84	OHX	1	3518	-	0,6,6	-	-	-		
84	OHX	6	2025	-	0,6,6	-	-	-		
84	OHX	1	3666	-	0,6,6	-	-	-		
84	OHX	6	2017	-	0,6,6	-	-	-		
84	OHX	6	1988	-	0,6,6	-	-	-		
84	OHX	AR	3470	-	0,6,6	-	-	-		
84	OHX	AR	3564	-	0,6,6	-	-	-		
84	OHX	O	201	-	0,6,6	-	-	-		
84	OHX	4	209	-	0,6,6	-	-	-		
86	7MB	1	4216	-	20,23,23	1.61	3 (15%)	18,38,38	1.18	1 (5%)
84	OHX	AR	3629	-	0,6,6	-	-	-		
84	OHX	6	2006	-	0,6,6	-	-	-		
84	OHX	AR	3724	-	0,6,6	-	-	-		
84	OHX	6	1967	-	0,6,6	-	-	-		
84	OHX	A	2026	-	0,6,6	-	-	-		
84	OHX	AT	202	-	0,6,6	-	-	-		
84	OHX	1	3421	-	0,6,6	-	-	-		
84	OHX	6	1935	-	0,6,6	-	-	-		
84	OHX	6	1944	-	0,6,6	-	-	-		
84	OHX	1	3564	-	0,6,6	-	-	-		
84	OHX	1	3588	-	0,6,6	-	-	-		
84	OHX	AR	3626	-	0,6,6	-	-	-		
84	OHX	AR	3731	-	0,6,6	-	-	-		
84	OHX	A	1953	-	0,6,6	-	-	-		
84	OHX	6	2039	-	0,6,6	-	-	-		
84	OHX	1	3580	-	0,6,6	-	-	-		
84	OHX	1	3641	-	0,6,6	-	-	-		
84	OHX	6	1951	-	0,6,6	-	-	-		
84	OHX	6	1925	-	0,6,6	-	-	-		
84	OHX	6	2037	-	0,6,6	-	-	-		
84	OHX	1	3461	-	0,6,6	-	-	-		
84	OHX	3	205	-	0,6,6	-	-	-		
84	OHX	1	3468	-	0,6,6	-	-	-		
84	OHX	AP	502	-	0,6,6	-	-	-		
84	OHX	1	3608	-	0,6,6	-	-	-		
84	OHX	6	1990	-	0,6,6	-	-	-		
84	OHX	AR	3576	-	0,6,6	-	-	-		
84	OHX	1	3727	-	0,6,6	-	-	-		
84	OHX	6	1911	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
84	OHX	AR	3654	-	0,6,6	-	-	-		
84	OHX	AR	3729	-	0,6,6	-	-	-		
84	OHX	1	3430	-	0,6,6	-	-	-		
84	OHX	6	2008	-	0,6,6	-	-	-		
84	OHX	AR	3540	-	0,6,6	-	-	-		
84	OHX	6	1950	-	0,6,6	-	-	-		
84	OHX	6	2009	-	0,6,6	-	-	-		
84	OHX	AR	3584	-	0,6,6	-	-	-		
84	OHX	AR	3457	-	0,6,6	-	-	-		
84	OHX	1	3665	-	0,6,6	-	-	-		
84	OHX	AR	3444	-	0,6,6	-	-	-		
84	OHX	1	3643	-	0,6,6	-	-	-		
84	OHX	AR	3460	-	0,6,6	-	-	-		
84	OHX	1	3416	-	0,6,6	-	-	-		
84	OHX	AR	3531	-	0,6,6	-	-	-		
84	OHX	A	2004	-	0,6,6	-	-	-		
84	OHX	A	1946	-	0,6,6	-	-	-		
84	OHX	1	3693	-	0,6,6	-	-	-		
84	OHX	1	3550	-	0,6,6	-	-	-		
84	OHX	AR	3414	-	0,6,6	-	-	-		
84	OHX	AR	3514	-	0,6,6	-	-	-		
84	OHX	AR	3428	-	0,6,6	-	-	-		
84	OHX	1	3419	-	0,6,6	-	-	-		
84	OHX	6	2036	-	0,6,6	-	-	-		
84	OHX	1	3418	-	0,6,6	-	-	-		
84	OHX	1	3647	-	0,6,6	-	-	-		
84	OHX	AR	3484	-	0,6,6	-	-	-		
84	OHX	x	201	-	0,6,6	-	-	-		
84	OHX	CX	201	-	0,6,6	-	-	-		
84	OHX	1	3502	-	0,6,6	-	-	-		
84	OHX	1	3500	-	0,6,6	-	-	-		
84	OHX	CL	301	-	0,6,6	-	-	-		
84	OHX	1	3664	-	0,6,6	-	-	-		
84	OHX	AR	3725	-	0,6,6	-	-	-		
84	OHX	1	3594	-	0,6,6	-	-	-		
84	OHX	A	2007	-	0,6,6	-	-	-		
84	OHX	6	1981	-	0,6,6	-	-	-		
84	OHX	1	3671	-	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	7MB	AR	4239	-	-	-	0/4/4/4
86	7MB	1	4216	-	-	-	0/4/4/4

All (4) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
86	1	4216	7MB	C8-C7	-4.55	1.37	1.47
86	1	4216	7MB	C9-C8	-2.98	1.35	1.42
86	1	4216	7MB	O-C1	-2.30	1.19	1.23
86	AR	4239	7MB	C8-C7	-2.17	1.42	1.47

All (2) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
86	1	4216	7MB	C6-C2-N1	-2.99	108.36	113.28
86	AR	4239	7MB	C-N-C1	2.63	126.13	122.22

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

551 monomers are involved in 797 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	DL	102	OHX	1	0
84	AR	3435	OHX	1	0
84	AR	3650	OHX	2	0
84	AR	3545	OHX	1	0
84	1	3422	OHX	2	0
84	AR	3534	OHX	1	0
84	6	2007	OHX	1	0
84	1	3618	OHX	3	0
84	AR	3522	OHX	1	0
84	6	1965	OHX	1	0
84	1	3547	OHX	1	0
84	1	3428	OHX	2	0
84	1	401	OHX	2	0
84	6	1968	OHX	1	0
84	AR	3456	OHX	3	0
84	AR	3641	OHX	1	0
84	AT	220	OHX	1	0
84	AR	3454	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	A	2030	OHX	3	0
84	A	2008	OHX	2	0
84	DL	101	OHX	1	0
84	AR	3661	OHX	2	0
84	1	3631	OHX	1	0
84	1	3688	OHX	1	0
84	AR	3508	OHX	1	0
84	AR	3515	OHX	2	0
84	AR	3401	OHX	1	0
84	AR	3575	OHX	1	0
84	A	1986	OHX	1	0
84	AR	3568	OHX	3	0
84	1	3465	OHX	1	0
84	1	3634	OHX	1	0
84	AR	3643	OHX	3	0
84	AR	3517	OHX	1	0
84	AR	3586	OHX	1	0
84	1	3527	OHX	1	0
84	1	3516	OHX	1	0
84	1	3540	OHX	2	0
84	AR	3635	OHX	1	0
84	6	1912	OHX	1	0
84	AR	3601	OHX	2	0
84	A	2021	OHX	2	0
84	AR	3689	OHX	2	0
84	A	1919	OHX	1	0
84	k	401	OHX	1	0
84	6	2005	OHX	2	0
84	A	2035	OHX	2	0
84	1	3657	OHX	1	0
84	6	1955	OHX	1	0
84	6	1958	OHX	1	0
84	A	1970	OHX	3	0
84	A	1971	OHX	1	0
84	AR	3505	OHX	1	0
84	A	2009	OHX	2	0
84	6	1918	OHX	1	0
84	AR	3518	OHX	2	0
84	6	1913	OHX	1	0
84	6	1952	OHX	2	0
84	AR	3592	OHX	1	0
84	AR	3567	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	4	204	OHX	1	0
84	x	202	OHX	1	0
84	AR	3469	OHX	3	0
84	AR	3691	OHX	1	0
84	1	3537	OHX	1	0
84	1	3406	OHX	5	0
84	AT	218	OHX	1	0
84	CK	201	OHX	1	0
84	6	1924	OHX	1	0
84	AR	3657	OHX	1	0
84	1	3617	OHX	1	0
84	6	1970	OHX	1	0
84	6	2044	OHX	1	0
84	1	3401	OHX	1	0
84	1	3597	OHX	1	0
84	1	3713	OHX	1	0
84	6	1997	OHX	1	0
84	AR	3620	OHX	1	0
84	AT	212	OHX	1	0
84	A	1909	OHX	3	0
84	AR	3490	OHX	2	0
84	AR	3701	OHX	2	0
84	1	3578	OHX	1	0
84	1	3410	OHX	2	0
84	M	201	OHX	2	0
84	1	3535	OHX	2	0
84	1	3587	OHX	1	0
84	A	2023	OHX	1	0
84	AR	3715	OHX	2	0
84	6	1963	OHX	1	0
84	A	2027	OHX	1	0
84	AR	3604	OHX	4	0
84	6	1993	OHX	2	0
84	6	1977	OHX	1	0
84	A	1916	OHX	1	0
84	1	3408	OHX	2	0
84	AR	3532	OHX	1	0
84	A	1937	OHX	1	0
84	AR	3607	OHX	1	0
84	AR	3441	OHX	1	0
84	A	1918	OHX	1	0
84	6	2028	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	6	2000	OHX	2	0
84	AR	3493	OHX	1	0
84	6	1976	OHX	2	0
84	1	3539	OHX	1	0
84	1	3667	OHX	1	0
84	A	2037	OHX	1	0
84	AR	3432	OHX	2	0
84	A	1907	OHX	1	0
84	AR	3685	OHX	1	0
84	e	101	OHX	2	0
84	AR	3713	OHX	1	0
84	AR	3442	OHX	2	0
84	AR	3410	OHX	2	0
84	AR	3548	OHX	2	0
84	AR	3678	OHX	1	0
84	A	2029	OHX	1	0
84	AR	3418	OHX	2	0
84	AR	3700	OHX	2	0
84	AR	3481	OHX	1	0
84	A	1961	OHX	1	0
84	A	1939	OHX	3	0
84	AR	3429	OHX	1	0
84	1	3579	OHX	1	0
84	6	1979	OHX	1	0
84	c3	201	OHX	2	0
84	AR	3708	OHX	1	0
84	4	211	OHX	1	0
84	AR	3656	OHX	1	0
84	1	3402	OHX	1	0
84	1	3495	OHX	1	0
84	1	3553	OHX	1	0
84	A	1955	OHX	2	0
84	AR	3683	OHX	3	0
84	A	1912	OHX	2	0
84	1	3404	OHX	1	0
84	6	1930	OHX	1	0
84	1	3677	OHX	1	0
84	A	1944	OHX	3	0
84	6	1921	OHX	1	0
84	AR	3542	OHX	2	0
84	3	203	OHX	1	0
84	1	3712	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	6	1926	OHX	1	0
84	6	1934	OHX	1	0
84	A	1913	OHX	1	0
84	A	1925	OHX	3	0
84	1	3654	OHX	2	0
84	AR	3473	OHX	1	0
84	1	3496	OHX	6	0
84	1	3687	OHX	1	0
84	6	2021	OHX	1	0
84	AR	3603	OHX	2	0
84	AR	3571	OHX	1	0
84	3	202	OHX	1	0
84	6	1999	OHX	2	0
84	4	206	OHX	1	0
84	6	2013	OHX	1	0
84	1	3414	OHX	2	0
84	6	2018	OHX	1	0
84	1	3610	OHX	1	0
84	A	1943	OHX	2	0
84	4	203	OHX	1	0
84	AT	208	OHX	1	0
84	1	3409	OHX	1	0
84	1	3572	OHX	3	0
84	AR	3611	OHX	1	0
84	1	3454	OHX	1	0
84	A	1984	OHX	1	0
84	AR	3549	OHX	1	0
84	AR	3476	OHX	1	0
84	1	3534	OHX	2	0
84	6	1901	OHX	1	0
84	AT	205	OHX	2	0
84	AR	3420	OHX	1	0
84	1	3514	OHX	2	0
84	A	1965	OHX	1	0
84	AR	3573	OHX	1	0
84	1	3663	OHX	1	0
84	AR	3720	OHX	1	0
84	CM	201	OHX	1	0
84	AR	3582	OHX	2	0
84	A	1981	OHX	1	0
84	AR	3613	OHX	1	0
84	AR	3628	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	1	3661	OHX	1	0
84	6	1902	OHX	1	0
84	1	3556	OHX	1	0
84	AR	3563	OHX	1	0
84	1	3427	OHX	1	0
84	1	3530	OHX	1	0
84	AR	3709	OHX	1	0
84	AR	3624	OHX	1	0
84	1	3668	OHX	2	0
84	AC	101	OHX	1	0
84	AR	3723	OHX	1	0
84	A	2038	OHX	2	0
84	1	3494	OHX	1	0
84	1	3558	OHX	2	0
84	A	1954	OHX	4	0
84	A	1962	OHX	1	0
84	AR	3478	OHX	2	0
84	AR	3614	OHX	1	0
84	AR	3598	OHX	1	0
84	AT	210	OHX	1	0
84	AR	3483	OHX	1	0
84	6	1973	OHX	3	0
84	1	3691	OHX	1	0
84	AR	3519	OHX	1	0
84	1	3505	OHX	1	0
84	1	3482	OHX	2	0
84	6	1904	OHX	1	0
84	6	1956	OHX	3	0
84	AR	3591	OHX	1	0
84	A	1951	OHX	1	0
84	AR	3615	OHX	1	0
84	1	3676	OHX	2	0
84	6	1985	OHX	1	0
84	DI	201	OHX	1	0
84	A	2041	OHX	1	0
84	AR	3595	OHX	2	0
84	A	1902	OHX	1	0
84	A	1910	OHX	2	0
84	AR	3466	OHX	1	0
84	1	3515	OHX	1	0
84	1	3420	OHX	2	0
84	AT	203	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	AR	3474	OHX	1	0
84	AR	3589	OHX	1	0
84	AR	3721	OHX	2	0
84	1	3450	OHX	2	0
84	A	1911	OHX	1	0
84	1	3503	OHX	1	0
84	AR	3739	OHX	2	0
84	1	3504	OHX	2	0
84	1	3628	OHX	1	0
84	1	3563	OHX	1	0
84	1	3690	OHX	1	0
84	A	1997	OHX	1	0
84	AR	3417	OHX	2	0
84	A	2022	OHX	1	0
84	A	1932	OHX	2	0
84	1	3582	OHX	3	0
84	A	1938	OHX	2	0
84	1	3459	OHX	1	0
84	A	2012	OHX	1	0
84	1	3639	OHX	1	0
84	A	1985	OHX	1	0
84	A	1988	OHX	3	0
84	AR	3409	OHX	1	0
84	AR	3682	OHX	1	0
84	1	3596	OHX	1	0
84	r	301	OHX	1	0
84	3	206	OHX	2	0
84	A	2005	OHX	1	0
84	AR	3552	OHX	1	0
84	AR	3509	OHX	2	0
84	AS	204	OHX	1	0
84	1	3614	OHX	1	0
84	1	3491	OHX	1	0
84	1	3598	OHX	1	0
84	6	1994	OHX	3	0
84	AR	3499	OHX	1	0
84	1	3568	OHX	1	0
84	6	1982	OHX	3	0
84	AR	3455	OHX	1	0
84	6	1908	OHX	1	0
84	AK	102	OHX	2	0
84	6	2045	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	1	3493	OHX	1	0
84	1	3511	OHX	1	0
84	AR	3492	OHX	1	0
84	A	1948	OHX	1	0
84	AR	3649	OHX	1	0
84	1	3466	OHX	1	0
84	1	3619	OHX	1	0
84	k	402	OHX	2	0
84	AR	3697	OHX	3	0
84	AR	3658	OHX	1	0
84	1	3486	OHX	1	0
84	1	3650	OHX	1	0
84	6	2011	OHX	1	0
84	AR	3459	OHX	1	0
84	1	3637	OHX	1	0
84	1	3442	OHX	1	0
84	CF	401	OHX	1	0
84	1	3684	OHX	1	0
84	A	1964	OHX	3	0
84	A	1922	OHX	1	0
84	6	2038	OHX	1	0
84	1	3463	OHX	1	0
84	1	3586	OHX	2	0
84	1	3522	OHX	1	0
84	AR	3737	OHX	1	0
84	6	2043	OHX	3	0
84	AR	3437	OHX	2	0
84	1	3521	OHX	1	0
84	4	212	OHX	1	0
84	1	3714	OHX	1	0
84	1	3471	OHX	4	0
84	1	3447	OHX	2	0
84	AR	3608	OHX	1	0
84	AR	3735	OHX	1	0
84	1	3446	OHX	1	0
84	1	3552	OHX	1	0
84	6	1980	OHX	1	0
84	1	3506	OHX	1	0
84	AR	3403	OHX	1	0
84	1	3629	OHX	1	0
84	AR	3606	OHX	3	0
84	1	3603	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	6	2040	OHX	1	0
84	AR	3580	OHX	2	0
84	A	2034	OHX	1	0
84	AR	3416	OHX	2	0
84	AR	3448	OHX	1	0
84	CV	201	OHX	1	0
84	6	1992	OHX	1	0
84	A	1905	OHX	1	0
84	A	1973	OHX	2	0
84	1	3546	OHX	1	0
84	1	3604	OHX	1	0
84	1	3696	OHX	1	0
84	1	3441	OHX	1	0
84	6	1906	OHX	1	0
84	1	3722	OHX	1	0
84	A	1999	OHX	1	0
84	AR	3521	OHX	1	0
84	CE	402	OHX	2	0
84	AR	3623	OHX	1	0
84	6	2030	OHX	1	0
84	A	1974	OHX	2	0
84	1	3444	OHX	1	0
84	AR	3516	OHX	1	0
84	1	3405	OHX	2	0
84	1	3656	OHX	1	0
84	A	1993	OHX	1	0
84	1	3565	OHX	1	0
84	AR	3647	OHX	1	0
84	AR	3619	OHX	2	0
84	AR	3500	OHX	2	0
84	A	1987	OHX	1	0
84	AR	3443	OHX	7	0
84	1	3577	OHX	2	0
84	AR	3671	OHX	2	0
84	AT	206	OHX	1	0
84	AR	3640	OHX	1	0
84	T	201	OHX	1	0
84	AR	3423	OHX	1	0
84	1	3681	OHX	1	0
84	1	3702	OHX	4	0
84	AR	3570	OHX	1	0
84	1	3624	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	v	301	OHX	1	0
84	1	3403	OHX	1	0
84	A	2024	OHX	2	0
84	A	2003	OHX	1	0
84	1	3544	OHX	1	0
84	AR	3631	OHX	1	0
84	1	3513	OHX	1	0
84	AR	3527	OHX	2	0
84	AR	3696	OHX	3	0
84	1	3415	OHX	2	0
84	A	1915	OHX	2	0
84	1	3632	OHX	1	0
84	Q	201	OHX	2	0
84	A	1917	OHX	1	0
84	A	1901	OHX	1	0
84	1	3437	OHX	2	0
84	1	3507	OHX	1	0
84	6	1995	OHX	1	0
84	A	1923	OHX	1	0
84	1	3698	OHX	2	0
84	AR	3421	OHX	1	0
84	AR	3504	OHX	3	0
84	AR	3449	OHX	1	0
84	1	3605	OHX	1	0
84	AR	3407	OHX	1	0
84	A	1956	OHX	1	0
84	AE	201	OHX	4	0
84	AR	3728	OHX	1	0
84	1	3595	OHX	1	0
84	1	3730	OHX	3	0
84	A	1947	OHX	1	0
84	A	1998	OHX	2	0
84	AR	3550	OHX	2	0
84	1	3616	OHX	1	0
84	AR	3413	OHX	1	0
84	6	1922	OHX	1	0
84	6	2035	OHX	1	0
84	AR	3707	OHX	1	0
84	AR	3652	OHX	1	0
84	AR	3727	OHX	1	0
84	6	2055	OHX	1	0
84	6	1927	OHX	3	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	A	1992	OHX	3	0
84	6	2047	OHX	1	0
84	AR	3507	OHX	2	0
84	1	3478	OHX	2	0
84	AR	3596	OHX	1	0
84	AR	3453	OHX	1	0
84	AT	219	OHX	1	0
84	6	1932	OHX	1	0
84	6	1939	OHX	1	0
84	AR	3461	OHX	1	0
84	AR	3468	OHX	1	0
84	AR	3472	OHX	1	0
84	1	3438	OHX	2	0
84	AR	3530	OHX	1	0
84	AR	3594	OHX	1	0
84	AR	3630	OHX	2	0
84	AR	3736	OHX	1	0
84	1	3613	OHX	1	0
84	AR	3574	OHX	1	0
84	AR	3578	OHX	1	0
84	AR	3706	OHX	1	0
84	AR	3524	OHX	3	0
84	A	1920	OHX	1	0
84	1	3474	OHX	1	0
84	AR	3439	OHX	1	0
84	AR	3690	OHX	2	0
84	6	1957	OHX	1	0
84	AR	3538	OHX	1	0
84	A	2000	OHX	1	0
84	AT	211	OHX	2	0
84	A	1990	OHX	1	0
84	1	3674	OHX	1	0
84	6	2050	OHX	3	0
84	6	1953	OHX	2	0
84	1	3585	OHX	1	0
84	AR	3646	OHX	1	0
84	1	3709	OHX	1	0
84	AS	202	OHX	2	0
84	1	3720	OHX	1	0
84	AR	3536	OHX	2	0
84	1	3413	OHX	2	0
84	6	1969	OHX	1	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	A	1968	OHX	1	0
84	AR	3645	OHX	1	0
84	AR	3511	OHX	2	0
84	6	1914	OHX	1	0
84	AR	3556	OHX	1	0
84	1	3542	OHX	2	0
84	1	3672	OHX	2	0
84	1	3541	OHX	1	0
84	A	1983	OHX	1	0
84	AR	3560	OHX	1	0
84	1	3662	OHX	1	0
84	1	3724	OHX	1	0
84	6	1942	OHX	2	0
84	A	1904	OHX	1	0
84	AR	3512	OHX	2	0
84	1	3497	OHX	1	0
84	AR	3485	OHX	1	0
84	1	3472	OHX	1	0
84	A	1959	OHX	1	0
84	1	3524	OHX	1	0
84	1	3523	OHX	1	0
84	1	3538	OHX	2	0
84	AT	214	OHX	2	0
84	1	3669	OHX	1	0
84	1	3440	OHX	1	0
84	6	1915	OHX	3	0
84	AR	3427	OHX	1	0
84	A	2025	OHX	1	0
84	1	3689	OHX	2	0
84	AR	3712	OHX	1	0
84	1	3646	OHX	1	0
84	6	1986	OHX	3	0
84	1	3725	OHX	3	0
84	1	3567	OHX	1	0
84	CG	302	OHX	4	0
84	1	3433	OHX	2	0
84	AS	209	OHX	2	0
84	1	3682	OHX	2	0
84	6	1910	OHX	2	0
84	1	3644	OHX	1	0
84	1	3453	OHX	1	0
84	AR	3425	OHX	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	1	3536	OHX	1	0
84	3	201	OHX	1	0
84	6	1945	OHX	3	0
84	4	202	OHX	1	0
84	AT	213	OHX	1	0
84	AR	3462	OHX	1	0
86	AR	4239	7MB	3	0
84	1	3548	OHX	1	0
84	AS	203	OHX	1	0
84	6	1978	OHX	1	0
84	AR	3480	OHX	1	0
84	AR	3440	OHX	2	0
84	AR	3684	OHX	1	0
84	1	3485	OHX	1	0
84	A	1928	OHX	2	0
84	A	1963	OHX	1	0
84	A	2010	OHX	1	0
84	1	3448	OHX	2	0
84	1	3529	OHX	1	0
84	AR	3526	OHX	2	0
84	6	1961	OHX	1	0
84	1	3554	OHX	1	0
84	A	2019	OHX	1	0
84	1	3612	OHX	1	0
84	A	1931	OHX	1	0
84	A	1933	OHX	1	0
84	6	1991	OHX	1	0
84	c5	201	OHX	3	0
84	AR	3408	OHX	2	0
84	A	1914	OHX	2	0
84	AR	3674	OHX	1	0
84	6	2033	OHX	1	0
84	6	2012	OHX	1	0
84	AS	201	OHX	1	0
84	1	3717	OHX	1	0
84	1	3666	OHX	2	0
84	6	2017	OHX	1	0
84	AR	3470	OHX	1	0
84	O	201	OHX	1	0
84	4	209	OHX	1	0
86	1	4216	7MB	4	0
84	6	2006	OHX	1	0

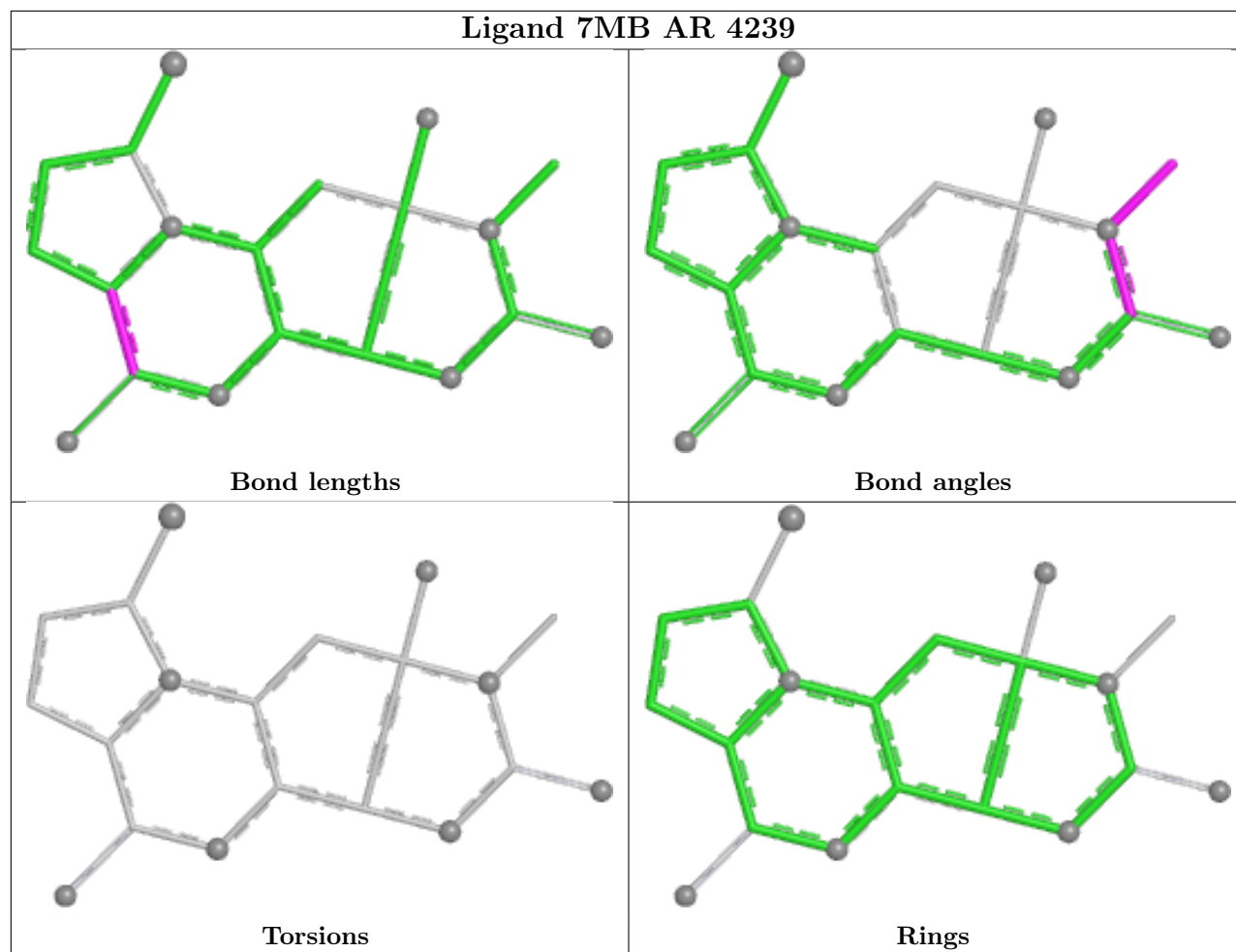
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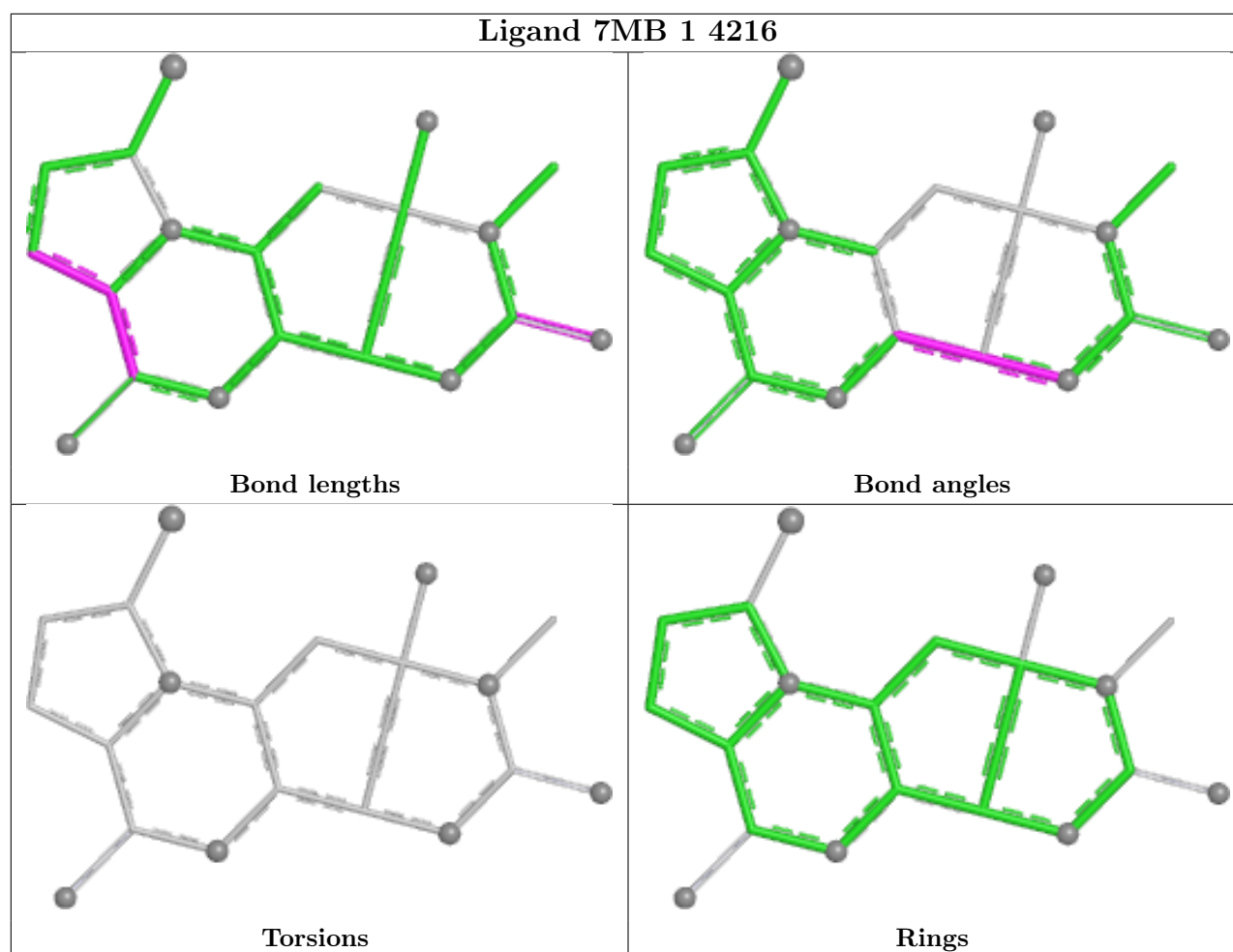
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Mol	Chain	Res	Type	Clashes	Symm-Clashes
84	A	2026	OHX	2	0
84	AT	202	OHX	1	0
84	1	3588	OHX	1	0
84	AR	3731	OHX	6	0
84	6	2039	OHX	1	0
84	1	3641	OHX	1	0
84	6	2037	OHX	2	0
84	1	3461	OHX	1	0
84	AP	502	OHX	3	0
84	6	1911	OHX	2	0
84	1	3430	OHX	2	0
84	6	2008	OHX	2	0
84	6	2009	OHX	1	0
84	AR	3457	OHX	2	0
84	1	3665	OHX	2	0
84	AR	3444	OHX	1	0
84	AR	3460	OHX	1	0
84	1	3416	OHX	2	0
84	AR	3531	OHX	1	0
84	A	2004	OHX	1	0
84	AR	3514	OHX	1	0
84	1	3419	OHX	2	0
84	AR	3484	OHX	2	0
84	x	201	OHX	2	0
84	1	3502	OHX	3	0
84	1	3500	OHX	1	0
84	CL	301	OHX	2	0
84	1	3594	OHX	4	0
84	6	1981	OHX	1	0

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

Ligand 7MB AR 4239





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
48	sM	2
25	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	sM	85:SER	C	119:UNK	N	44.36
1	sM	139:UNK	C	155:UNK	N	36.85
1	A	1716:C	O3'	1717:G	P	4.45

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	1	3149/3396 (92%)	-0.15	31 (0%) 79 56	22, 53, 169, 269	0
1	AR	3149/3396 (92%)	-0.14	46 (1%) 72 47	22, 51, 152, 280	0
2	3	121/121 (100%)	-0.27	1 (0%) 82 60	33, 69, 92, 108	0
2	AS	121/121 (100%)	-0.34	1 (0%) 82 60	28, 56, 73, 112	0
3	4	158/158 (100%)	-0.14	1 (0%) 85 65	34, 58, 115, 203	0
3	AT	158/158 (100%)	-0.15	2 (1%) 75 50	35, 62, 125, 189	0
4	CD	252/252 (100%)	0.03	2 (0%) 82 60	30, 51, 83, 119	0
4	j	252/252 (100%)	0.06	2 (0%) 82 60	29, 54, 76, 118	0
5	CE	386/386 (100%)	-0.23	1 (0%) 90 76	21, 40, 65, 139	0
5	k	386/386 (100%)	-0.19	0 100 100	28, 54, 77, 122	0
6	CF	361/361 (100%)	-0.16	0 100 100	30, 50, 79, 110	0
6	l	361/361 (100%)	-0.14	0 100 100	28, 49, 82, 101	0
7	CG	296/296 (100%)	-0.16	1 (0%) 90 76	36, 58, 99, 128	0
7	m	296/296 (100%)	-0.06	0 100 100	46, 78, 115, 168	0
8	CH	156/175 (89%)	-0.19	0 100 100	35, 49, 88, 129	0
8	n	156/175 (89%)	-0.28	0 100 100	35, 46, 79, 132	0
9	CI	222/222 (100%)	-0.33	1 (0%) 87 68	25, 37, 91, 176	0
9	o	222/222 (100%)	-0.34	1 (0%) 87 68	28, 40, 80, 161	0
10	CJ	233/233 (100%)	0.20	2 (0%) 81 58	64, 87, 146, 191	0
10	p	233/233 (100%)	0.19	1 (0%) 88 72	54, 82, 138, 160	0
11	CK	191/191 (100%)	-0.19	0 100 100	33, 46, 77, 143	0
11	q	191/191 (100%)	-0.06	1 (0%) 87 68	46, 62, 84, 149	0
12	CL	211/220 (95%)	0.04	6 (2%) 55 32	32, 57, 100, 169	0
12	r	211/220 (95%)	-0.11	5 (2%) 59 35	35, 53, 108, 127	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	CM	169/169 (100%)	-0.15	0 100 100	45, 61, 83, 105	0
13	s	169/169 (100%)	0.12	1 (0%) 85 65	61, 80, 102, 115	0
14	CN	193/193 (100%)	-0.09	0 100 100	33, 67, 131, 148	0
14	t	193/193 (100%)	-0.09	1 (0%) 87 68	30, 60, 113, 144	0
15	CO	136/136 (100%)	-0.26	3 (2%) 62 37	30, 44, 72, 97	0
15	u	136/136 (100%)	-0.19	1 (0%) 84 63	42, 52, 77, 105	0
16	CP	203/203 (100%)	-0.12	0 100 100	37, 55, 71, 75	0
16	v	203/203 (100%)	-0.08	0 100 100	30, 51, 64, 74	0
17	CQ	197/197 (100%)	-0.27	1 (0%) 87 68	22, 33, 79, 88	0
17	w	197/197 (100%)	-0.19	0 100 100	27, 41, 75, 85	0
18	CR	183/183 (100%)	0.11	19 (10%) 11 8	25, 40, 181, 234	0
18	x	183/183 (100%)	-0.03	8 (4%) 39 21	33, 42, 124, 165	0
19	CS	185/185 (100%)	-0.13	0 100 100	36, 50, 65, 84	0
19	y	185/185 (100%)	-0.03	2 (1%) 78 54	36, 48, 84, 123	0
20	CT	188/188 (100%)	0.14	2 (1%) 78 54	42, 61, 148, 170	0
20	z	188/188 (100%)	0.17	5 (2%) 56 33	53, 73, 158, 171	0
21	0	172/172 (100%)	-0.16	1 (0%) 85 65	37, 46, 72, 91	0
21	CU	172/172 (100%)	-0.33	1 (0%) 85 65	28, 38, 66, 86	0
22	2	159/159 (100%)	-0.09	0 100 100	31, 48, 111, 126	0
22	CV	159/159 (100%)	-0.24	0 100 100	25, 42, 94, 108	0
23	5	100/100 (100%)	0.36	2 (2%) 65 39	86, 108, 135, 159	0
23	CW	100/100 (100%)	0.23	0 100 100	70, 94, 120, 162	0
24	CX	136/136 (100%)	-0.14	1 (0%) 84 63	21, 37, 66, 96	0
24	l2	136/136 (100%)	-0.08	1 (0%) 84 63	37, 51, 78, 114	0
25	6	1783/1800 (99%)	0.11	37 (2%) 63 38	34, 76, 201, 266	0
25	A	1781/1800 (98%)	0.26	53 (2%) 52 30	49, 93, 235, 311	0
26	7	98/98 (100%)	0.84	20 (20%) 3 3	52, 69, 199, 216	0
26	CY	98/98 (100%)	0.53	13 (13%) 7 6	35, 52, 188, 226	0
27	8	121/121 (100%)	0.02	0 100 100	48, 67, 91, 130	0
27	CZ	121/121 (100%)	0.04	0 100 100	48, 67, 91, 132	0
28	9	126/126 (100%)	-0.27	0 100 100	42, 58, 80, 111	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	DA	126/126 (100%)	-0.04	2 (1%) 70 45	43, 61, 87, 103	0
29	AA	135/135 (100%)	-0.11	0 100 100	76, 100, 124, 133	0
29	DB	135/135 (100%)	-0.02	0 100 100	77, 99, 124, 136	0
30	AB	148/148 (100%)	-0.11	0 100 100	25, 48, 89, 106	0
30	DC	148/148 (100%)	-0.18	0 100 100	26, 52, 87, 95	0
31	AC	58/58 (100%)	0.13	1 (1%) 69 43	31, 55, 111, 132	0
31	DD	58/58 (100%)	-0.01	0 100 100	30, 56, 92, 112	0
32	AD	97/97 (100%)	-0.00	0 100 100	77, 92, 122, 140	0
32	DE	97/97 (100%)	0.14	1 (1%) 79 56	66, 82, 112, 135	0
33	AE	109/109 (100%)	0.08	0 100 100	46, 67, 123, 146	0
33	DF	109/109 (100%)	-0.04	1 (0%) 81 58	35, 52, 119, 142	0
34	AF	127/127 (100%)	-0.19	1 (0%) 82 60	24, 40, 59, 133	0
34	DG	127/127 (100%)	-0.25	0 100 100	24, 46, 66, 132	0
35	AG	106/106 (100%)	-0.35	0 100 100	28, 37, 62, 89	0
35	DH	106/106 (100%)	-0.27	0 100 100	27, 36, 82, 124	0
36	AH	112/112 (100%)	0.27	1 (0%) 81 58	53, 73, 130, 149	0
36	DI	112/112 (100%)	0.10	1 (0%) 81 58	48, 70, 134, 155	0
37	AI	119/119 (100%)	0.04	1 (0%) 82 60	45, 68, 85, 92	0
37	DJ	119/119 (100%)	0.08	3 (2%) 58 35	51, 75, 94, 113	0
38	AJ	99/99 (100%)	0.03	0 100 100	50, 69, 116, 148	0
38	DK	99/99 (100%)	0.01	1 (1%) 79 56	59, 74, 118, 154	0
39	AK	87/87 (100%)	0.13	2 (2%) 61 37	34, 44, 77, 128	0
39	DL	87/87 (100%)	0.04	1 (1%) 78 54	33, 47, 88, 167	0
40	AL	77/77 (100%)	0.12	0 100 100	78, 94, 120, 130	0
40	DM	77/77 (100%)	0.13	0 100 100	75, 94, 120, 129	0
41	AM	50/50 (100%)	0.08	0 100 100	44, 53, 64, 76	0
41	DN	50/50 (100%)	0.07	0 100 100	48, 56, 69, 89	0
42	AN	52/52 (100%)	-0.31	0 100 100	43, 53, 80, 108	0
42	DO	52/52 (100%)	-0.32	1 (1%) 66 41	32, 39, 54, 81	0
43	AO	25/25 (100%)	0.11	0 100 100	54, 61, 69, 75	0
43	DP	25/25 (100%)	-0.07	0 100 100	42, 50, 62, 68	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	AP	105/105 (100%)	-0.02	1 (0%) 79 56	36, 58, 96, 156	0
44	DQ	105/105 (100%)	-0.01	0 100 100	42, 59, 96, 138	0
45	AQ	91/91 (100%)	0.16	1 (1%) 78 54	38, 62, 91, 121	0
45	DR	91/91 (100%)	0.05	0 100 100	32, 55, 78, 88	0
46	i	159/168 (94%)	0.59	13 (8%) 17 11	56, 101, 165, 178	0
47	p0	143/220 (65%)	0.54	2 (1%) 73 48	100, 113, 177, 185	0
48	sM	63/104 (60%)	0.55	4 (6%) 26 15	54, 106, 129, 136	0
49	B	206/206 (100%)	0.32	5 (2%) 59 35	92, 115, 139, 176	0
49	s0	206/206 (100%)	-0.01	2 (0%) 79 56	72, 95, 124, 136	0
50	C	214/216 (99%)	0.53	5 (2%) 61 37	101, 141, 172, 181	0
50	s1	216/216 (100%)	-0.03	0 100 100	68, 87, 117, 144	0
51	D	217/217 (100%)	0.37	2 (0%) 81 58	69, 91, 118, 142	0
51	s2	217/217 (100%)	0.22	6 (2%) 55 32	55, 75, 97, 121	0
52	E	223/223 (100%)	0.33	3 (1%) 75 50	78, 95, 131, 155	0
52	s3	223/223 (100%)	0.50	9 (4%) 42 23	74, 111, 145, 158	0
53	F	260/260 (100%)	0.24	1 (0%) 88 72	73, 95, 113, 153	0
53	s4	260/260 (100%)	-0.05	0 100 100	51, 79, 100, 150	0
54	G	206/206 (100%)	0.56	9 (4%) 39 21	98, 121, 152, 179	0
54	s5	206/206 (100%)	0.40	5 (2%) 59 35	71, 92, 124, 157	0
55	H	226/226 (100%)	0.50	7 (3%) 51 29	66, 105, 142, 160	0
55	s6	218/226 (96%)	0.21	2 (0%) 81 58	51, 83, 123, 148	0
56	I	184/186 (98%)	0.47	4 (2%) 62 37	85, 126, 160, 187	0
56	s7	186/186 (100%)	0.07	1 (0%) 87 68	69, 105, 156, 173	0
57	J	188/199 (94%)	0.19	1 (0%) 87 68	58, 77, 128, 150	0
57	s8	188/199 (94%)	0.07	0 100 100	43, 68, 121, 138	0
58	K	185/185 (100%)	0.42	4 (2%) 62 37	87, 107, 149, 185	0
58	s9	185/185 (100%)	0.13	1 (0%) 87 68	63, 80, 128, 169	0
59	L	96/105 (91%)	0.32	0 100 100	80, 111, 141, 172	0
59	c0	96/105 (91%)	0.68	4 (4%) 40 22	104, 137, 155, 185	0
60	M	155/155 (100%)	0.48	9 (5%) 29 17	60, 76, 162, 194	0
60	c1	146/155 (94%)	0.23	7 (4%) 35 19	42, 64, 118, 151	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
61	N	124/124 (100%)	0.56	0 100 100	140, 159, 203, 214	0
61	c2	124/124 (100%)	0.60	1 (0%) 82 60	159, 186, 216, 234	0
62	O	150/150 (100%)	0.19	0 100 100	60, 90, 112, 129	0
62	c3	150/150 (100%)	0.18	2 (1%) 75 50	53, 76, 100, 121	0
63	P	127/128 (99%)	0.63	5 (3%) 43 23	65, 128, 158, 165	0
63	c4	128/128 (100%)	0.18	1 (0%) 82 60	55, 84, 100, 130	0
64	Q	124/141 (87%)	0.25	2 (1%) 70 45	80, 103, 150, 165	0
64	c5	135/141 (95%)	0.54	7 (5%) 33 19	75, 102, 144, 168	0
65	R	141/142 (99%)	0.65	6 (4%) 40 21	83, 110, 129, 132	0
65	c6	142/142 (100%)	0.43	3 (2%) 63 38	62, 88, 109, 141	0
66	S	120/125 (96%)	0.34	3 (2%) 58 35	77, 111, 159, 170	0
67	T	145/145 (100%)	0.19	1 (0%) 84 63	71, 111, 145, 160	0
67	c8	145/145 (100%)	0.01	2 (1%) 73 48	71, 88, 121, 137	0
68	U	143/143 (100%)	0.41	3 (2%) 63 38	89, 112, 136, 148	0
68	c9	143/143 (100%)	-0.00	0 100 100	66, 85, 109, 139	0
69	V	107/110 (97%)	0.78	7 (6%) 25 15	75, 110, 157, 169	0
69	d0	110/110 (100%)	0.52	1 (0%) 81 58	70, 113, 170, 190	0
70	W	87/87 (100%)	0.36	2 (2%) 61 37	91, 105, 126, 148	0
70	d1	87/87 (100%)	-0.10	0 100 100	68, 83, 119, 146	0
71	X	129/129 (100%)	0.24	0 100 100	68, 84, 96, 102	0
71	d2	129/129 (100%)	-0.04	0 100 100	50, 64, 77, 88	0
72	Y	144/144 (100%)	0.25	1 (0%) 84 63	57, 67, 88, 124	0
72	d3	144/144 (100%)	0.01	1 (0%) 84 63	40, 49, 73, 108	0
73	Z	134/134 (100%)	0.35	2 (1%) 72 47	82, 111, 137, 155	0
73	d4	134/134 (100%)	0.17	2 (1%) 72 47	59, 89, 117, 159	0
74	a	70/70 (100%)	0.36	0 100 100	117, 134, 148, 160	0
74	d5	69/70 (98%)	0.14	0 100 100	84, 111, 136, 147	0
75	b	97/97 (100%)	0.59	4 (4%) 41 22	69, 95, 165, 171	0
75	d6	97/97 (100%)	0.27	2 (2%) 63 38	54, 68, 110, 126	0
76	c	81/81 (100%)	0.45	1 (1%) 76 52	84, 107, 161, 171	0
76	d7	81/81 (100%)	0.10	0 100 100	67, 88, 144, 169	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å ²)	Q<0.9
77	d	63/63 (100%)	0.72	4 (6%)	26	15	103, 124, 146, 159	0
77	d8	63/63 (100%)	0.55	2 (3%)	50	29	82, 104, 132, 141	0
78	d9	53/53 (100%)	0.33	0	100	100	73, 84, 133, 153	0
78	e	53/53 (100%)	0.20	0	100	100	72, 82, 116, 137	0
79	e0	62/62 (100%)	0.30	2 (3%)	50	29	58, 81, 140, 161	0
79	f	60/62 (96%)	0.42	1 (1%)	69	43	65, 98, 158, 164	0
80	g	71/71 (100%)	0.84	5 (7%)	22	14	96, 149, 167, 187	0
81	h	318/318 (100%)	0.09	2 (0%)	85	65	100, 124, 161, 200	0
81	sR	318/318 (100%)	0.28	2 (0%)	85	65	92, 119, 148, 191	0
82	c7	117/121 (96%)	0.16	1 (0%)	81	58	72, 93, 130, 139	0
83	e1	51/51 (100%)	0.94	5 (9%)	13	9	143, 176, 188, 200	0
All	All	33004/33818 (97%)	0.06	485 (1%)	72	47	21, 72, 152, 311	0

All (485) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
26	7	88	ASP	8.1
18	CR	177	ALA	6.2
26	7	86	SER	6.0
1	AR	1103	A	5.4
17	CQ	182	ASN	5.3
25	A	1708	U	5.3
25	A	1709	C	5.1
18	CR	176	ILE	5.0
25	A	1694	A	5.0
26	CY	66	GLU	4.9
26	CY	96	LEU	4.8
25	A	913	G	4.8
25	A	1693	A	4.7
25	A	1699	G	4.7
60	M	3	THR	4.6
12	CL	221	ALA	4.5
18	CR	165	VAL	4.5
60	M	146	ALA	4.5
26	7	89	LEU	4.4
1	AR	3275	U	4.3
25	A	1703	C	4.3
25	A	1702	A	4.3

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Mol	Chain	Res	Type	RSRZ
26	CY	81	PRO	4.2
12	r	112	GLN	4.2
26	7	92	GLU	4.2
12	CL	219	ALA	4.1
65	R	115	THR	4.1
25	6	1700	C	4.1
54	s5	37	GLN	4.1
60	c1	147	GLY	4.1
81	sR	136	ILE	4.1
1	1	1569	U	4.0
26	7	76	VAL	4.0
54	G	41	LYS	4.0
60	c1	3	THR	4.0
54	G	37	GLN	4.0
1	AR	2505	U	3.9
12	CL	220	GLN	3.9
54	G	152	GLY	3.9
18	CR	167	ARG	3.9
52	s3	151	LYS	3.9
28	DA	126	LEU	3.9
25	A	1695	G	3.9
25	6	794	U	3.8
1	1	1103	A	3.8
18	CR	161	ALA	3.7
18	CR	178	ALA	3.7
2	AS	73	C	3.7
26	7	95	SER	3.7
60	c1	146	ALA	3.7
83	e1	124	PRO	3.7
26	7	85	ALA	3.6
21	0	1	MET	3.6
26	7	90	ILE	3.6
1	AR	2506	U	3.6
26	7	93	ARG	3.6
39	AK	88	ALA	3.6
18	CR	182	ILE	3.5
25	A	1686	C	3.5
18	CR	159	LYS	3.5
64	c5	133	ALA	3.5
31	AC	25	LYS	3.5
46	i	88	ARG	3.5
25	6	1285	U	3.5

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Mol	Chain	Res	Type	RSRZ
25	A	261	U	3.5
60	M	147	GLY	3.5
25	6	1708	U	3.4
55	H	66	GLY	3.4
37	DJ	120	ALA	3.4
1	AR	2504	U	3.4
52	s3	144	ALA	3.4
1	AR	2093	A	3.4
46	i	87	THR	3.3
18	x	161	ALA	3.3
1	AR	437	G	3.3
1	AR	3278	C	3.3
25	6	678	A	3.3
39	DL	88	ALA	3.3
79	e0	62	VAL	3.3
1	AR	1581	C	3.3
52	s3	115	ILE	3.3
51	D	144	TRP	3.3
51	s2	92	ALA	3.3
25	A	820	U	3.3
60	M	145	ALA	3.3
26	CY	98	PRO	3.3
52	s3	143	ARG	3.3
25	A	238	U	3.2
26	7	87	LEU	3.2
47	p0	192	ASP	3.2
25	A	1711	C	3.2
25	6	1707	A	3.2
63	P	15	GLY	3.2
1	AR	3276	G	3.2
25	A	1698	G	3.2
18	CR	160	ALA	3.2
46	i	19	VAL	3.2
79	f	2	ALA	3.2
60	M	150	ASN	3.1
25	A	1692	G	3.1
54	G	36	ALA	3.1
4	j	253	GLN	3.1
15	u	9	ALA	3.1
25	A	320	U	3.1
26	7	84	GLY	3.1
1	1	1574	C	3.1

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Mol	Chain	Res	Type	RSRZ
75	b	98	PRO	3.1
51	s2	91	ARG	3.1
63	P	102	LEU	3.1
1	1	1556	C	3.1
3	4	158	U	3.0
64	c5	136	SER	3.0
1	1	1581	C	3.0
1	1	2539	C	3.0
1	AR	1582	C	3.0
62	c3	16	ILE	3.0
64	c5	11	VAL	3.0
77	d	44	VAL	3.0
1	1	1568	U	3.0
1	1	1570	U	3.0
1	AR	1572	U	3.0
18	CR	179	GLN	3.0
26	CY	95	SER	3.0
18	x	184	ALA	3.0
60	c1	144	ALA	3.0
60	c1	145	ALA	3.0
18	x	165	VAL	3.0
65	R	114	ARG	3.0
18	CR	170	SER	2.9
52	s3	178	ARG	2.9
1	1	1349	G	2.9
80	g	124	PRO	2.9
25	6	718	U	2.9
79	e0	49	LEU	2.9
49	s0	207	PRO	2.9
1	AR	1573	G	2.9
25	6	1695	G	2.9
54	s5	154	ALA	2.9
39	AK	86	ALA	2.9
81	sR	121	MET	2.9
1	AR	1356	U	2.9
1	AR	3157	U	2.9
28	DA	127	GLU	2.9
55	H	80	ASN	2.9
1	AR	621	A	2.8
5	CE	140	ASP	2.8
18	CR	157	VAL	2.8
26	7	77	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
80	g	103	LEU	2.8
25	6	1371	A	2.8
25	6	1800	A	2.8
18	CR	166	VAL	2.8
82	c7	97	ASN	2.8
1	AR	3277	U	2.8
19	y	156	GLY	2.8
54	G	71	ALA	2.8
25	A	1700	C	2.8
26	7	81	PRO	2.8
52	s3	41	VAL	2.8
18	CR	174	GLY	2.8
18	x	162	GLU	2.8
25	A	1696	G	2.8
18	CR	168	LEU	2.8
69	V	108	ILE	2.8
25	6	1701	A	2.8
60	M	2	SER	2.8
4	CD	252	THR	2.8
12	CL	187	ALA	2.8
72	Y	3	LYS	2.8
25	A	1710	U	2.8
26	CY	65	GLU	2.7
25	A	234	G	2.7
25	A	1704	U	2.7
20	z	72	GLU	2.7
26	7	83	THR	2.7
52	s3	176	LEU	2.7
57	J	8	ARG	2.7
1	1	2169	G	2.7
54	G	151	GLY	2.7
1	AR	1569	U	2.7
25	6	75	U	2.7
25	6	679	U	2.7
65	R	66	ARG	2.7
48	sM	82	THR	2.7
1	1	1025	A	2.7
52	s3	152	PHE	2.7
18	CR	158	ALA	2.7
51	s2	90	THR	2.7
50	C	100	PHE	2.7
15	CO	10	SER	2.7

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Mol	Chain	Res	Type	RSRZ
49	B	207	PRO	2.6
64	c5	4	ALA	2.6
25	6	1694	A	2.6
25	A	1701	A	2.6
64	c5	135	THR	2.6
25	6	1710	U	2.6
55	H	157	VAL	2.6
54	G	56	ALA	2.6
1	AR	2507	C	2.6
56	I	38	LEU	2.6
46	i	18	VAL	2.6
68	U	6	VAL	2.6
25	A	579	A	2.6
56	I	98	ILE	2.6
1	1	2205	U	2.6
25	A	719	U	2.6
12	r	218	ALA	2.6
46	i	11	ASP	2.6
25	A	1697	G	2.6
55	s6	167	LYS	2.6
45	AQ	92	ALA	2.6
33	DF	112	ASP	2.6
3	AT	82	U	2.6
25	6	1491	U	2.6
26	CY	94	ARG	2.6
42	DO	77	ILE	2.6
75	b	83	ILE	2.6
1	1	979	U	2.6
25	6	719	U	2.6
54	s5	153	GLY	2.6
48	sM	83	LYS	2.5
60	M	152	GLN	2.5
25	6	1709	C	2.5
26	7	63	ILE	2.5
80	g	146	SER	2.5
1	1	3079	U	2.5
1	AR	1351	U	2.5
55	H	163	THR	2.5
23	5	89	LEU	2.5
64	Q	11	VAL	2.5
25	A	658	C	2.5
25	A	736	C	2.5

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Mol	Chain	Res	Type	RSRZ
1	AR	979	U	2.5
25	6	579	A	2.5
59	c0	65	TYR	2.5
69	V	19	ILE	2.5
44	AP	104	LEU	2.5
26	CY	86	SER	2.5
1	AR	544	C	2.5
1	AR	1560	G	2.5
25	6	1150	G	2.5
1	AR	3355	U	2.5
25	A	1657	U	2.5
25	A	1707	A	2.5
7	CG	4	GLN	2.5
50	C	156	ALA	2.5
65	R	20	ALA	2.5
46	i	89	ARG	2.5
46	i	85	SER	2.5
12	CL	186	GLU	2.4
36	AH	2	ALA	2.4
51	s2	93	GLY	2.4
25	6	1228	G	2.4
55	H	67	VAL	2.4
18	x	163	LYS	2.4
60	M	151	LYS	2.4
26	CY	92	GLU	2.4
54	s5	28	PRO	2.4
54	G	54	LYS	2.4
60	M	156	PHE	2.4
81	h	79	TYR	2.4
34	AF	128	LEU	2.4
1	1	1095	U	2.4
1	AR	240	U	2.4
25	6	1426	C	2.4
66	S	126	ALA	2.4
1	1	440	A	2.4
25	6	651	G	2.4
26	7	75	THR	2.4
48	sM	85	SER	2.4
32	DE	104	LEU	2.4
77	d8	65	ARG	2.4
26	7	98	PRO	2.4
4	CD	251	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
48	sM	84	LYS	2.4
67	T	22	VAL	2.4
1	AR	1570	U	2.4
25	6	227	U	2.4
1	AR	2546	C	2.4
2	3	73	C	2.4
1	AR	440	A	2.4
19	y	74	GLU	2.4
62	c3	83	GLU	2.4
75	b	85	ARG	2.4
12	r	220	GLN	2.4
18	CR	184	ALA	2.4
1	AR	3286	G	2.4
25	A	676	G	2.4
51	s2	121	VAL	2.4
59	c0	22	VAL	2.4
80	g	150	VAL	2.4
12	CL	218	ALA	2.4
18	x	158	ALA	2.4
66	S	123	ASN	2.3
58	K	29	LYS	2.3
15	CO	9	ALA	2.3
67	c8	3	LEU	2.3
68	U	21	PHE	2.3
75	b	64	LEU	2.3
1	AR	620	U	2.3
1	AR	1554	U	2.3
1	AR	1568	U	2.3
1	1	1571	A	2.3
1	AR	1571	A	2.3
46	i	173	GLU	2.3
65	R	143	ARG	2.3
73	d4	123	LYS	2.3
55	s6	169	TYR	2.3
83	e1	152	ALA	2.3
49	B	107	PHE	2.3
56	s7	8	ILE	2.3
1	AR	1555	U	2.3
52	s3	148	LYS	2.3
55	H	219	ARG	2.3
67	c8	17	LEU	2.3
69	V	93	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
70	W	69	LEU	2.3
73	Z	125	LEU	2.3
59	c0	13	GLN	2.3
10	p	156	ASP	2.3
66	S	97	ASN	2.3
81	h	102	ARG	2.3
1	AR	494	G	2.3
1	1	1356	U	2.3
25	A	1362	U	2.3
55	H	158	ILE	2.3
37	AI	120	ALA	2.3
1	AR	1562	C	2.3
25	6	1148	C	2.3
25	6	1619	C	2.3
64	Q	48	GLY	2.3
69	d0	118	VAL	2.3
75	d6	98	PRO	2.3
46	i	16	ASP	2.3
69	V	48	HIS	2.2
26	7	82	ILE	2.2
1	1	1555	U	2.2
1	1	2522	G	2.2
25	6	320	U	2.2
25	A	228	G	2.2
25	A	718	U	2.2
4	j	252	THR	2.2
26	CY	83	THR	2.2
50	C	180	THR	2.2
25	6	506	A	2.2
20	z	189	ALA	2.2
1	1	1192	C	2.2
61	c2	123	VAL	2.2
63	P	16	VAL	2.2
77	d	9	LEU	2.2
64	c5	134	THR	2.2
46	i	134	ASP	2.2
1	1	3156	U	2.2
25	6	132	U	2.2
25	A	194	U	2.2
10	CJ	123	GLN	2.2
1	1	1952	G	2.2
25	A	914	G	2.2

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Mol	Chain	Res	Type	RSRZ
49	B	29	VAL	2.2
58	s9	148	VAL	2.2
83	e1	150	VAL	2.2
25	6	1193	A	2.2
69	V	103	ILE	2.2
69	V	107	THR	2.2
25	A	1705	C	2.2
65	R	21	HIS	2.2
63	P	40	ALA	2.2
11	q	191	LEU	2.2
20	z	184	LEU	2.2
54	G	150	GLY	2.2
25	A	912	U	2.2
12	r	221	ALA	2.2
37	DJ	2	ALA	2.2
49	B	206	ASP	2.2
1	1	1878	G	2.2
20	CT	150	GLN	2.2
25	6	228	G	2.2
52	E	179	GLN	2.2
49	B	110	TYR	2.2
69	V	118	VAL	2.2
25	6	1711	C	2.2
51	D	145	GLY	2.2
76	c	38	PRO	2.2
14	t	135	ALA	2.1
20	CT	161	ALA	2.1
1	1	3355	U	2.1
24	CX	32	ARG	2.1
25	A	715	U	2.1
25	A	1370	U	2.1
25	A	1682	U	2.1
25	A	1687	U	2.1
23	5	11	ILE	2.1
58	K	85	VAL	2.1
73	Z	100	VAL	2.1
75	d6	90	GLU	2.1
25	A	197	A	2.1
20	z	54	ALA	2.1
36	DI	16	ARG	2.1
25	A	239	C	2.1
25	A	696	C	2.1

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Mol	Chain	Res	Type	RSRZ
50	C	63	GLY	2.1
50	C	178	GLY	2.1
26	7	64	THR	2.1
52	E	44	THR	2.1
1	1	2996	U	2.1
25	A	1059	U	2.1
26	7	96	LEU	2.1
26	CY	93	ARG	2.1
59	c0	45	ALA	2.1
65	c6	3	ALA	2.1
46	i	84	LYS	2.1
56	I	73	VAL	2.1
1	AR	1350	A	2.1
1	AR	2535	A	2.1
25	6	673	A	2.1
18	CR	162	GLU	2.1
21	CU	1	MET	2.1
54	s5	38	THR	2.1
1	AR	439	C	2.1
25	A	697	C	2.1
63	P	41	ARG	2.1
9	o	23	ALA	2.1
20	z	2	ALA	2.1
63	c4	50	ALA	2.1
26	CY	82	ILE	2.1
1	AR	3156	U	2.1
24	l2	137	VAL	2.1
68	U	2	PRO	2.1
60	c1	4	GLU	2.1
18	CR	175	ARG	2.1
1	1	784	A	2.1
18	x	160	ALA	2.1
47	p0	4	ILE	2.1
77	d8	63	ALA	2.1
77	d	59	SER	2.1
26	CY	79	GLN	2.1
73	d4	18	LEU	2.1
1	1	3154	C	2.1
13	s	11	ASP	2.1
25	6	677	G	2.1
25	A	1718	G	2.1
1	1	2954	U	2.1

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Mol	Chain	Res	Type	RSRZ
25	6	194	U	2.1
25	6	681	U	2.1
56	I	74	GLN	2.1
1	AR	1580	A	2.0
3	AT	79	A	2.0
58	K	2	PRO	2.0
18	x	182	ILE	2.0
70	W	10	GLU	2.0
9	CI	23	ALA	2.0
38	DK	96	ALA	2.0
77	d	21	SER	2.0
1	AR	2539	C	2.0
25	6	658	C	2.0
25	A	233	C	2.0
65	c6	57	LEU	2.0
46	i	86	ASN	2.0
1	AR	1354	G	2.0
1	AR	1577	G	2.0
25	A	845	G	2.0
1	1	3351	U	2.0
25	A	232	U	2.0
25	A	821	U	2.0
72	d3	2	GLY	2.0
37	DJ	83	LYS	2.0
60	c1	116	ARG	2.0
65	c6	115	THR	2.0
83	e1	125	THR	2.0
51	s2	120	GLU	2.0
10	CJ	256	ALA	2.0
80	g	108	VAL	2.0
15	CO	8	LYS	2.0
52	E	148	LYS	2.0
64	c5	8	LYS	2.0
1	1	439	C	2.0
1	AR	1578	C	2.0
25	A	848	C	2.0
53	F	123	LEU	2.0
58	K	106	GLU	2.0
1	AR	1094	U	2.0
12	r	219	ALA	2.0
46	i	176	ALA	2.0
49	s0	206	ASP	2.0

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Mol	Chain	Res	Type	RSRZ
83	e1	122	SER	2.0

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

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

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	MG	A	2110	1/1	0.00	0.24	108,108,108,108	0
85	MG	A	2104	1/1	0.16	0.19	131,131,131,131	0
85	MG	AR	4152	1/1	0.41	0.13	152,152,152,152	0
85	MG	A	2139	1/1	0.51	0.25	86,86,86,86	0
85	MG	AR	4059	1/1	0.54	0.19	67,67,67,67	0
85	MG	6	2097	1/1	0.55	0.24	79,79,79,79	0
85	MG	1	3751	1/1	0.56	0.24	50,50,50,50	0
85	MG	AH	201	1/1	0.59	0.38	60,60,60,60	0
85	MG	A	2147	1/1	0.59	0.17	106,106,106,106	0
85	MG	AR	3812	1/1	0.60	0.19	46,46,46,46	0
85	MG	AR	3773	1/1	0.61	0.23	113,113,113,113	0
84	OHX	6	2029	7/7	0.64	0.16	246,248,249,250	0
84	OHX	AR	3716	7/7	0.65	0.16	292,293,293,294	0
85	MG	c9	201	1/1	0.65	0.16	73,73,73,73	0
85	MG	A	2118	1/1	0.66	0.35	75,75,75,75	0
84	OHX	AR	3737	7/7	0.66	0.15	260,261,262,262	0
85	MG	A	2129	1/1	0.67	0.11	58,58,58,58	0
85	MG	1	4079	1/1	0.68	0.19	47,47,47,47	0
85	MG	6	2148	1/1	0.68	0.16	69,69,69,69	0
85	MG	6	2160	1/1	0.68	0.16	121,121,121,121	0
85	MG	A	2094	1/1	0.69	0.21	110,110,110,110	0
85	MG	1	3824	1/1	0.69	0.22	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	2081	1/1	0.70	0.21	94,94,94,94	0
85	MG	1	3775	1/1	0.71	0.23	59,59,59,59	0
84	OHX	CO	201	7/7	0.71	0.13	281,282,283,284	0
85	MG	AR	4072	1/1	0.71	0.12	71,71,71,71	0
84	OHX	AR	3733	7/7	0.71	0.13	289,291,292,292	0
85	MG	A	2095	1/1	0.72	0.20	94,94,94,94	0
84	OHX	4	210	7/7	0.72	0.15	236,236,236,236	0
85	MG	1	4175	1/1	0.72	0.26	91,91,91,91	0
84	OHX	1	3719	7/7	0.72	0.15	264,264,265,265	0
84	OHX	A	2002	7/7	0.72	0.21	242,245,246,247	0
85	MG	1	3966	1/1	0.72	0.13	62,62,62,62	0
85	MG	1	3982	1/1	0.72	0.23	98,98,98,98	0
85	MG	6	2180	1/1	0.72	0.14	94,94,94,94	0
84	OHX	AS	210	7/7	0.73	0.16	235,237,238,238	0
84	OHX	AR	3717	7/7	0.73	0.17	281,282,283,283	0
85	MG	AR	4170	1/1	0.73	0.12	128,128,128,128	0
85	MG	AR	4183	1/1	0.73	0.20	93,93,93,93	0
85	MG	A	2091	1/1	0.73	0.23	60,60,60,60	0
85	MG	AR	4036	1/1	0.73	0.14	68,68,68,68	0
85	MG	1	3759	1/1	0.73	0.24	69,69,69,69	0
84	OHX	6	2042	7/7	0.74	0.14	246,246,248,248	0
85	MG	AR	4220	1/1	0.74	0.18	54,54,54,54	0
85	MG	A	2073	1/1	0.74	0.26	65,65,65,65	0
85	MG	AR	3746	1/1	0.74	0.15	39,39,39,39	0
84	OHX	CZ	201	7/7	0.74	0.15	303,304,305,305	0
84	OHX	A	1993	7/7	0.74	0.15	236,237,239,240	0
84	OHX	6	2047	7/7	0.74	0.16	237,239,240,241	0
85	MG	6	2143	1/1	0.74	0.20	90,90,90,90	0
85	MG	1	3968	1/1	0.74	0.13	50,50,50,50	0
85	MG	AR	4122	1/1	0.74	0.14	70,70,70,70	0
84	OHX	AR	3732	7/7	0.74	0.16	245,246,247,247	0
85	MG	AR	4156	1/1	0.74	0.17	71,71,71,71	0
85	MG	1	4044	1/1	0.74	0.21	40,40,40,40	0
84	OHX	1	3661	7/7	0.75	0.15	251,252,253,253	0
84	OHX	1	3703	7/7	0.75	0.12	259,259,260,261	0
85	MG	1	4132	1/1	0.75	0.23	42,42,42,42	0
84	OHX	1	3709	7/7	0.75	0.15	229,231,231,232	0
84	OHX	1	3638	7/7	0.75	0.13	245,246,247,248	0
84	OHX	AR	3680	7/7	0.75	0.15	220,222,222,223	0
84	OHX	A	2039	7/7	0.75	0.14	264,266,268,268	0
85	MG	CR	203	1/1	0.75	0.29	74,74,74,74	0
85	MG	A	2057	1/1	0.75	0.24	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3736	1/1	0.75	0.10	82,82,82,82	0
85	MG	6	2152	1/1	0.76	0.18	57,57,57,57	0
85	MG	A	2098	1/1	0.76	0.15	72,72,72,72	0
85	MG	AR	4128	1/1	0.76	0.17	54,54,54,54	0
85	MG	1	4100	1/1	0.76	0.15	87,87,87,87	0
85	MG	A	2072	1/1	0.76	0.27	44,44,44,44	0
85	MG	A	2121	1/1	0.76	0.21	66,66,66,66	0
84	OHX	A	2031	7/7	0.76	0.12	244,246,248,248	0
85	MG	A	2135	1/1	0.76	0.19	50,50,50,50	0
84	OHX	1	3648	7/7	0.76	0.17	258,259,260,260	0
85	MG	A	2092	1/1	0.76	0.28	87,87,87,87	0
85	MG	z	202	1/1	0.76	0.17	62,62,62,62	0
84	OHX	AR	3730	7/7	0.77	0.11	271,272,273,273	0
84	OHX	CE	403	7/7	0.77	0.14	237,238,239,240	0
85	MG	6	2080	1/1	0.77	0.23	53,53,53,53	0
84	OHX	1	3726	7/7	0.77	0.14	231,232,233,233	0
84	OHX	AR	3687	7/7	0.77	0.14	244,245,246,247	0
85	MG	A	2148	1/1	0.77	0.27	103,103,103,103	0
85	MG	A	2153	1/1	0.77	0.29	66,66,66,66	0
84	OHX	AR	3727	7/7	0.77	0.11	277,279,280,280	0
85	MG	d5	201	1/1	0.77	0.14	67,67,67,67	0
84	OHX	AR	3695	7/7	0.78	0.17	225,226,227,227	0
85	MG	1	3829	1/1	0.78	0.30	25,25,25,25	0
84	OHX	AR	3702	7/7	0.78	0.15	218,219,220,220	0
84	OHX	6	2053	7/7	0.78	0.15	250,252,253,254	0
84	OHX	AR	3641	7/7	0.78	0.15	218,219,219,220	0
85	MG	AR	3819	1/1	0.78	0.28	53,53,53,53	0
85	MG	AR	4026	1/1	0.78	0.28	62,62,62,62	0
84	OHX	AR	3664	7/7	0.78	0.20	287,287,288,288	0
85	MG	A	2142	1/1	0.78	0.12	90,90,90,90	0
84	OHX	1	3656	7/7	0.78	0.14	229,230,231,231	0
85	MG	1	3769	1/1	0.78	0.22	61,61,61,61	0
84	OHX	6	2052	7/7	0.78	0.16	244,244,246,246	0
85	MG	6	2162	1/1	0.78	0.16	69,69,69,69	0
85	MG	AR	4141	1/1	0.78	0.18	53,53,53,53	0
85	MG	A	2099	1/1	0.79	0.26	64,64,64,64	0
85	MG	A	2102	1/1	0.79	0.23	52,52,52,52	0
85	MG	A	2103	1/1	0.79	0.32	64,64,64,64	0
85	MG	AR	3803	1/1	0.79	0.10	54,54,54,54	0
84	OHX	AR	3728	7/7	0.79	0.15	238,238,239,239	0
85	MG	6	2121	1/1	0.79	0.17	71,71,71,71	0
84	OHX	1	3696	7/7	0.79	0.15	240,240,241,242	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	A	2127	1/1	0.79	0.12	55,55,55,55	0
85	MG	A	2054	1/1	0.79	0.24	59,59,59,59	0
85	MG	A	2131	1/1	0.79	0.27	88,88,88,88	0
85	MG	1	4064	1/1	0.79	0.14	59,59,59,59	0
84	OHX	A	1985	7/7	0.79	0.16	221,222,223,224	0
84	OHX	6	1976	7/7	0.79	0.17	182,182,183,184	0
84	OHX	6	2006	7/7	0.79	0.18	199,199,201,201	0
84	OHX	6	2028	7/7	0.79	0.13	248,250,252,252	0
85	MG	1	3955	1/1	0.79	0.14	52,52,52,52	0
84	OHX	1	3722	7/7	0.79	0.23	268,268,269,269	0
84	OHX	1	3711	7/7	0.79	0.09	301,302,304,304	0
84	OHX	AR	3711	7/7	0.80	0.15	227,227,228,228	0
85	MG	3	217	1/1	0.80	0.17	48,48,48,48	0
84	OHX	CF	401	7/7	0.80	0.12	245,246,247,247	0
85	MG	AR	4215	1/1	0.80	0.19	72,72,72,72	0
85	MG	6	2066	1/1	0.80	0.26	87,87,87,87	0
84	OHX	CF	402	7/7	0.80	0.13	254,255,256,256	0
85	MG	1	3976	1/1	0.80	0.31	61,61,61,61	0
84	OHX	1	3693	7/7	0.80	0.10	264,265,266,266	0
84	OHX	6	2010	7/7	0.80	0.17	213,214,215,216	0
85	MG	6	2125	1/1	0.80	0.21	63,63,63,63	0
85	MG	A	2083	1/1	0.80	0.24	62,62,62,62	0
84	OHX	A	1977	7/7	0.80	0.16	202,205,207,207	0
84	OHX	1	3731	7/7	0.80	0.17	201,202,205,205	0
84	OHX	AR	3738	7/7	0.80	0.16	270,271,272,272	0
85	MG	6	2158	1/1	0.80	0.25	64,64,64,64	0
85	MG	1	4130	1/1	0.80	0.17	68,68,68,68	0
84	OHX	6	2048	7/7	0.80	0.15	224,224,225,226	0
84	OHX	x	202	7/7	0.81	0.14	223,224,225,225	0
84	OHX	6	2054	7/7	0.81	0.12	253,254,256,256	0
85	MG	1	3801	1/1	0.81	0.12	38,38,38,38	0
85	MG	1	4090	1/1	0.81	0.09	54,54,54,54	0
85	MG	AR	3826	1/1	0.81	0.25	42,42,42,42	0
85	MG	6	2126	1/1	0.81	0.20	39,39,39,39	0
85	MG	A	2122	1/1	0.81	0.24	42,42,42,42	0
85	MG	A	2068	1/1	0.81	0.24	68,68,68,68	0
84	OHX	6	2046	7/7	0.81	0.10	244,245,247,248	0
84	OHX	6	2015	7/7	0.81	0.16	230,231,232,233	0
85	MG	A	2080	1/1	0.81	0.27	45,45,45,45	0
84	OHX	CG	303	7/7	0.81	0.14	212,213,214,214	0
84	OHX	A	2040	7/7	0.81	0.11	246,248,249,250	0
84	OHX	1	3645	7/7	0.81	0.14	220,221,221,221	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3675	7/7	0.81	0.24	229,229,230,230	0
85	MG	6	2064	1/1	0.81	0.21	62,62,62,62	0
84	OHX	AS	208	7/7	0.81	0.19	226,226,228,228	0
85	MG	1	3998	1/1	0.81	0.28	65,65,65,65	0
85	MG	DR	502	1/1	0.82	0.15	76,76,76,76	0
85	MG	1	4056	1/1	0.82	0.13	82,82,82,82	0
84	OHX	Q	201	7/7	0.82	0.12	245,246,248,249	0
84	OHX	c3	201	7/7	0.82	0.13	212,213,214,215	0
84	OHX	4	209	7/7	0.82	0.19	194,194,195,195	0
84	OHX	CM	201	7/7	0.82	0.11	247,248,249,250	0
85	MG	A	2079	1/1	0.82	0.30	46,46,46,46	0
85	MG	6	2195	1/1	0.82	0.16	64,64,64,64	0
85	MG	1	4101	1/1	0.82	0.12	37,37,37,37	0
85	MG	1	4102	1/1	0.82	0.12	40,40,40,40	0
85	MG	AR	3753	1/1	0.82	0.21	51,51,51,51	0
84	OHX	1	3664	7/7	0.82	0.13	232,233,234,235	0
84	OHX	6	2051	7/7	0.82	0.16	228,229,230,231	0
84	OHX	1	3694	7/7	0.82	0.12	251,252,254,254	0
84	OHX	z	201	7/7	0.82	0.10	257,258,259,259	0
84	OHX	6	2037	7/7	0.82	0.17	203,204,206,206	0
85	MG	AR	3887	1/1	0.82	0.35	35,35,35,35	0
85	MG	AR	3970	1/1	0.82	0.18	53,53,53,53	0
85	MG	AR	4016	1/1	0.82	0.12	104,104,104,104	0
84	OHX	1	3710	7/7	0.82	0.13	247,248,248,249	0
85	MG	1	3907	1/1	0.82	0.31	13,13,13,13	0
85	MG	6	2068	1/1	0.82	0.25	76,76,76,76	0
85	MG	A	2123	1/1	0.82	0.24	40,40,40,40	0
85	MG	A	2125	1/1	0.82	0.30	51,51,51,51	0
85	MG	6	2071	1/1	0.82	0.12	73,73,73,73	0
84	OHX	A	2025	7/7	0.82	0.11	249,252,253,253	0
84	OHX	A	2027	7/7	0.82	0.12	236,239,240,241	0
84	OHX	A	2029	7/7	0.82	0.12	261,263,265,265	0
85	MG	6	2111	1/1	0.82	0.15	42,42,42,42	0
84	OHX	AR	3726	7/7	0.82	0.22	220,220,221,221	0
85	MG	A	2144	1/1	0.82	0.29	49,49,49,49	0
85	MG	6	2124	1/1	0.82	0.23	62,62,62,62	0
84	OHX	1	3663	7/7	0.82	0.13	214,216,217,217	0
84	OHX	AR	3678	7/7	0.82	0.14	238,238,239,239	0
85	MG	1	4042	1/1	0.82	0.11	65,65,65,65	0
84	OHX	J	301	7/7	0.82	0.11	244,245,247,247	0
84	OHX	AR	3670	7/7	0.83	0.16	229,230,230,231	0
85	MG	AR	4218	1/1	0.83	0.12	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4073	1/1	0.83	0.14	79,79,79,79	0
85	MG	AT	227	1/1	0.83	0.12	73,73,73,73	0
85	MG	6	2150	1/1	0.83	0.12	51,51,51,51	0
85	MG	6	2151	1/1	0.83	0.29	87,87,87,87	0
85	MG	1	4076	1/1	0.83	0.14	71,71,71,71	0
84	OHX	6	2038	7/7	0.83	0.12	213,215,217,217	0
84	OHX	A	1997	7/7	0.83	0.16	211,214,214,215	0
84	OHX	AR	3719	7/7	0.83	0.14	220,220,221,221	0
85	MG	6	2179	1/1	0.83	0.15	52,52,52,52	0
84	OHX	A	2005	7/7	0.83	0.15	204,206,207,207	0
85	MG	6	2189	1/1	0.83	0.19	67,67,67,67	0
85	MG	6	2193	1/1	0.83	0.21	76,76,76,76	0
84	OHX	A	2015	7/7	0.83	0.14	248,250,254,254	0
85	MG	1	4109	1/1	0.83	0.09	37,37,37,37	0
85	MG	AR	3742	1/1	0.83	0.13	29,29,29,29	0
85	MG	1	3804	1/1	0.83	0.30	18,18,18,18	0
84	OHX	AR	3720	7/7	0.83	0.13	267,269,269,270	0
85	MG	1	4172	1/1	0.83	0.17	76,76,76,76	0
84	OHX	AR	3725	7/7	0.83	0.12	261,263,264,264	0
85	MG	AR	3806	1/1	0.83	0.18	68,68,68,68	0
85	MG	1	3834	1/1	0.83	0.27	18,18,18,18	0
85	MG	s	300	1/1	0.83	0.16	53,53,53,53	0
85	MG	1	3879	1/1	0.83	0.12	47,47,47,47	0
84	OHX	1	3713	7/7	0.83	0.15	217,217,218,218	0
85	MG	AR	3891	1/1	0.83	0.27	36,36,36,36	0
85	MG	AR	3892	1/1	0.83	0.30	19,19,19,19	0
84	OHX	6	2044	7/7	0.83	0.13	238,238,239,240	0
84	OHX	A	2037	7/7	0.83	0.13	238,240,241,241	0
84	OHX	A	2038	7/7	0.83	0.16	217,217,220,220	0
85	MG	6	2074	1/1	0.83	0.26	37,37,37,37	0
84	OHX	6	1993	7/7	0.83	0.15	191,192,193,194	0
84	OHX	AR	3729	7/7	0.83	0.16	214,215,216,216	0
84	OHX	1	3676	7/7	0.83	0.11	223,223,225,225	0
85	MG	1	4032	1/1	0.83	0.16	49,49,49,49	0
85	MG	1	4034	1/1	0.83	0.24	33,33,33,33	0
84	OHX	O	201	7/7	0.83	0.11	249,252,253,253	0
84	OHX	AR	3705	7/7	0.83	0.19	212,213,213,214	0
84	OHX	1	3712	7/7	0.83	0.14	215,215,216,217	0
85	MG	6	2129	1/1	0.83	0.17	53,53,53,53	0
85	MG	AR	3838	1/1	0.84	0.24	21,21,21,21	0
85	MG	1	4136	1/1	0.84	0.17	49,49,49,49	0
85	MG	1	3746	1/1	0.84	0.13	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	A	2075	1/1	0.84	0.14	48,48,48,48	0
84	OHX	1	3671	7/7	0.84	0.14	212,213,214,214	0
84	OHX	6	2045	7/7	0.84	0.16	196,197,198,199	0
85	MG	AR	4002	1/1	0.84	0.27	42,42,42,42	0
85	MG	l	402	1/1	0.84	0.17	32,32,32,32	0
85	MG	AR	4024	1/1	0.84	0.18	33,33,33,33	0
84	OHX	1	3727	7/7	0.84	0.11	253,254,255,256	0
85	MG	1	3774	1/1	0.84	0.12	84,84,84,84	0
84	OHX	1	3728	7/7	0.84	0.12	233,233,233,234	0
85	MG	AR	4067	1/1	0.84	0.12	98,98,98,98	0
85	MG	6	2163	1/1	0.84	0.19	60,60,60,60	0
85	MG	AR	4116	1/1	0.84	0.21	105,105,105,105	0
84	OHX	AR	3685	7/7	0.84	0.18	187,187,188,188	0
84	OHX	1	3715	7/7	0.84	0.14	219,220,222,222	0
85	MG	A	2114	1/1	0.84	0.20	41,41,41,41	0
84	OHX	1	3717	7/7	0.84	0.18	217,218,219,219	0
84	OHX	1	3718	7/7	0.84	0.15	220,221,221,222	0
85	MG	6	2075	1/1	0.84	0.19	49,49,49,49	0
85	MG	AR	4167	1/1	0.84	0.22	72,72,72,72	0
84	OHX	A	1969	7/7	0.84	0.15	220,222,223,223	0
84	OHX	A	1971	7/7	0.84	0.14	216,218,220,221	0
84	OHX	1	3704	7/7	0.84	0.18	277,278,278,278	0
85	MG	A	2130	1/1	0.84	0.24	49,49,49,49	0
85	MG	AR	4217	1/1	0.84	0.08	65,65,65,65	0
85	MG	1	3918	1/1	0.84	0.33	26,26,26,26	0
84	OHX	1	3600	7/7	0.84	0.11	258,258,259,259	0
85	MG	1	4107	1/1	0.84	0.24	66,66,66,66	0
85	MG	A	2143	1/1	0.84	0.18	151,151,151,151	0
84	OHX	AR	3609	7/7	0.84	0.18	201,201,202,202	0
85	MG	CX	203	1/1	0.84	0.20	45,45,45,45	0
84	OHX	1	3724	7/7	0.84	0.10	243,244,245,246	0
85	MG	A	2149	1/1	0.84	0.21	49,49,49,49	0
85	MG	A	2050	1/1	0.84	0.25	68,68,68,68	0
85	MG	6	2128	1/1	0.84	0.17	53,53,53,53	0
84	OHX	AR	3718	7/7	0.84	0.10	255,256,257,257	0
87	ZN	c	101	1/1	0.84	0.08	197,197,197,197	0
85	MG	1	4033	1/1	0.85	0.16	57,57,57,57	0
84	OHX	c5	201	7/7	0.85	0.12	228,229,230,231	0
84	OHX	A	1996	7/7	0.85	0.12	208,209,211,212	0
85	MG	AR	3813	1/1	0.85	0.14	54,54,54,54	0
84	OHX	6	2026	7/7	0.85	0.14	218,219,220,222	0
85	MG	6	2098	1/1	0.85	0.26	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	2107	1/1	0.85	0.27	24,24,24,24	0
85	MG	AR	3849	1/1	0.85	0.32	18,18,18,18	0
84	OHX	1	3633	7/7	0.85	0.13	193,194,195,197	0
84	OHX	1	3619	7/7	0.85	0.14	190,191,192,193	0
84	OHX	A	2006	7/7	0.85	0.11	215,218,219,219	0
85	MG	AR	3930	1/1	0.85	0.29	14,14,14,14	0
84	OHX	6	2032	7/7	0.85	0.12	236,237,238,239	0
84	OHX	A	2023	7/7	0.85	0.13	202,204,206,206	0
85	MG	1	3786	1/1	0.85	0.26	37,37,37,37	0
85	MG	AR	4020	1/1	0.85	0.18	69,69,69,69	0
85	MG	1	4092	1/1	0.85	0.20	53,53,53,53	0
84	OHX	A	2024	7/7	0.85	0.18	219,222,223,223	0
84	OHX	AR	3724	7/7	0.85	0.15	203,204,205,205	0
84	OHX	1	3720	7/7	0.85	0.14	197,197,199,199	0
84	OHX	6	2001	7/7	0.85	0.14	211,211,212,213	0
84	OHX	CL	302	7/7	0.85	0.17	200,201,201,202	0
85	MG	AR	4084	1/1	0.85	0.13	31,31,31,31	0
85	MG	AR	4087	1/1	0.85	0.17	31,31,31,31	0
85	MG	1	3853	1/1	0.85	0.24	61,61,61,61	0
84	OHX	A	2034	7/7	0.85	0.10	277,279,281,282	0
85	MG	AR	4127	1/1	0.85	0.12	67,67,67,67	0
84	OHX	AR	3694	7/7	0.85	0.21	212,212,213,213	0
84	OHX	1	3707	7/7	0.85	0.11	237,237,239,239	0
85	MG	1	3928	1/1	0.85	0.18	32,32,32,32	0
85	MG	1	3934	1/1	0.85	0.10	61,61,61,61	0
84	OHX	1	3667	7/7	0.85	0.17	189,189,190,191	0
85	MG	A	2134	1/1	0.85	0.25	34,34,34,34	0
84	OHX	1	3702	7/7	0.85	0.18	179,180,181,182	0
85	MG	AR	4180	1/1	0.85	0.14	93,93,93,93	0
84	OHX	H	301	7/7	0.85	0.13	231,233,235,235	0
85	MG	AR	4185	1/1	0.85	0.20	40,40,40,40	0
84	OHX	AR	3708	7/7	0.85	0.14	228,228,229,229	0
84	OHX	AR	3651	7/7	0.85	0.16	229,230,231,231	0
84	OHX	AR	3734	7/7	0.85	0.16	223,224,224,225	0
85	MG	1	4008	1/1	0.85	0.16	76,76,76,76	0
85	MG	AS	228	1/1	0.85	0.14	48,48,48,48	0
85	MG	AR	3759	1/1	0.85	0.11	103,103,103,103	0
85	MG	CO	202	1/1	0.85	0.21	57,57,57,57	0
85	MG	d9	102	1/1	0.85	0.19	106,106,106,106	0
84	OHX	AR	3657	7/7	0.85	0.15	207,207,209,209	0
85	MG	CR	205	1/1	0.86	0.14	29,29,29,29	0
84	OHX	A	2003	7/7	0.86	0.14	196,198,199,199	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3625	7/7	0.86	0.18	186,186,187,187	0
84	OHX	1	3674	7/7	0.86	0.20	212,212,213,213	0
85	MG	AR	3889	1/1	0.86	0.26	42,42,42,42	0
84	OHX	A	2013	7/7	0.86	0.14	203,205,206,206	0
85	MG	A	2063	1/1	0.86	0.27	36,36,36,36	0
84	OHX	AR	3682	7/7	0.86	0.12	213,214,214,215	0
84	OHX	6	2008	7/7	0.86	0.12	211,213,214,216	0
84	OHX	1	3632	7/7	0.86	0.13	202,202,204,204	0
84	OHX	6	2014	7/7	0.86	0.14	219,220,221,221	0
84	OHX	6	2049	7/7	0.86	0.13	218,219,220,221	0
84	OHX	AT	219	7/7	0.86	0.15	190,190,190,191	0
84	OHX	1	3705	7/7	0.86	0.18	222,222,223,223	0
84	OHX	6	2025	7/7	0.86	0.09	248,249,250,252	0
84	OHX	1	3621	7/7	0.86	0.14	221,223,224,224	0
85	MG	A	2093	1/1	0.86	0.20	93,93,93,93	0
85	MG	AR	4055	1/1	0.86	0.19	47,47,47,47	0
85	MG	1	4163	1/1	0.86	0.12	68,68,68,68	0
84	OHX	4	211	7/7	0.86	0.13	225,225,226,226	0
84	OHX	6	2055	7/7	0.86	0.12	234,235,236,236	0
85	MG	6	2164	1/1	0.86	0.08	63,63,63,63	0
84	OHX	AR	3602	7/7	0.86	0.14	192,193,194,194	0
84	OHX	1	401	7/7	0.86	0.11	208,209,210,210	0
85	MG	A	2107	1/1	0.86	0.16	69,69,69,69	0
85	MG	6	2184	1/1	0.86	0.18	43,43,43,43	0
84	OHX	AR	3624	7/7	0.86	0.13	210,211,212,212	0
84	OHX	DL	102	7/7	0.86	0.20	212,212,213,213	0
85	MG	A	2119	1/1	0.86	0.23	55,55,55,55	0
85	MG	6	2061	1/1	0.86	0.19	64,64,64,64	0
85	MG	6	2197	1/1	0.86	0.14	57,57,57,57	0
85	MG	1	3988	1/1	0.86	0.17	46,46,46,46	0
85	MG	AR	4164	1/1	0.86	0.09	30,30,30,30	0
85	MG	AP	503	1/1	0.86	0.16	61,61,61,61	0
84	OHX	AR	3640	7/7	0.86	0.18	197,198,199,199	0
84	OHX	1	3653	7/7	0.86	0.13	193,195,196,196	0
85	MG	1	4010	1/1	0.86	0.19	44,44,44,44	0
84	OHX	1	3666	7/7	0.86	0.16	186,187,188,188	0
85	MG	AR	4214	1/1	0.86	0.12	61,61,61,61	0
84	OHX	1	3654	7/7	0.86	0.20	192,194,194,194	0
84	OHX	AR	3663	7/7	0.86	0.14	208,209,210,210	0
85	MG	1	3749	1/1	0.86	0.07	38,38,38,38	0
84	OHX	6	2039	7/7	0.86	0.12	204,204,206,206	0
85	MG	AR	4241	1/1	0.86	0.19	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AS	214	1/1	0.86	0.15	68,68,68,68	0
84	OHX	AR	3668	7/7	0.86	0.13	216,216,217,218	0
85	MG	AT	223	1/1	0.86	0.21	55,55,55,55	0
85	MG	Y	201	1/1	0.86	0.13	51,51,51,51	0
85	MG	s6	301	1/1	0.86	0.21	64,64,64,64	0
84	OHX	1	3699	7/7	0.86	0.08	304,306,307,308	0
85	MG	CE	405	1/1	0.86	0.24	34,34,34,34	0
85	MG	6	2110	1/1	0.86	0.28	40,40,40,40	0
85	MG	AR	3830	1/1	0.86	0.11	30,30,30,30	0
87	ZN	d7	101	1/1	0.86	0.11	176,176,176,176	0
85	MG	1	3761	1/1	0.87	0.21	44,44,44,44	0
84	OHX	A	1980	7/7	0.87	0.14	194,196,197,197	0
85	MG	6	2174	1/1	0.87	0.15	66,66,66,66	0
84	OHX	AR	3634	7/7	0.87	0.15	213,214,215,216	0
84	OHX	A	1989	7/7	0.87	0.10	253,254,256,256	0
84	OHX	AR	3638	7/7	0.87	0.19	208,208,209,209	0
84	OHX	6	2041	7/7	0.87	0.19	209,209,210,211	0
84	OHX	1	3655	7/7	0.87	0.18	203,204,205,205	0
84	OHX	AR	3647	7/7	0.87	0.15	203,204,205,205	0
85	MG	AS	229	1/1	0.87	0.18	68,68,68,68	0
85	MG	1	4169	1/1	0.87	0.10	39,39,39,39	0
84	OHX	6	2043	7/7	0.87	0.15	196,196,198,198	0
84	OHX	AR	3652	7/7	0.87	0.21	196,196,197,197	0
85	MG	1	4183	1/1	0.87	0.27	41,41,41,41	0
85	MG	1	4202	1/1	0.87	0.22	27,27,27,27	0
84	OHX	1	3617	7/7	0.87	0.15	201,202,203,204	0
85	MG	AR	3757	1/1	0.87	0.16	32,32,32,32	0
85	MG	3	219	1/1	0.87	0.11	77,77,77,77	0
85	MG	AR	3760	1/1	0.87	0.26	21,21,21,21	0
85	MG	4	230	1/1	0.87	0.11	54,54,54,54	0
84	OHX	AR	3660	7/7	0.87	0.15	167,168,169,170	0
84	OHX	A	2014	7/7	0.87	0.14	198,199,200,200	0
84	OHX	AR	3661	7/7	0.87	0.15	176,177,178,178	0
85	MG	6	2058	1/1	0.87	0.25	33,33,33,33	0
84	OHX	1	3658	7/7	0.87	0.13	211,212,212,213	0
85	MG	AR	3820	1/1	0.87	0.20	55,55,55,55	0
84	OHX	6	2021	7/7	0.87	0.13	210,210,212,213	0
85	MG	1	3950	1/1	0.87	0.12	70,70,70,70	0
85	MG	6	2067	1/1	0.87	0.24	41,41,41,41	0
85	MG	A	2084	1/1	0.87	0.12	53,53,53,53	0
85	MG	A	2086	1/1	0.87	0.16	50,50,50,50	0
85	MG	A	2089	1/1	0.87	0.26	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	AR	3666	7/7	0.87	0.14	217,218,218,219	0
85	MG	AR	3850	1/1	0.87	0.25	11,11,11,11	0
85	MG	AR	3858	1/1	0.87	0.25	22,22,22,22	0
84	OHX	6	2023	7/7	0.87	0.12	201,203,204,205	0
84	OHX	1	3682	7/7	0.87	0.11	204,206,207,207	0
85	MG	1	3970	1/1	0.87	0.23	59,59,59,59	0
85	MG	6	2079	1/1	0.87	0.28	37,37,37,37	0
84	OHX	6	1962	7/7	0.87	0.16	187,188,189,190	0
85	MG	AR	3958	1/1	0.87	0.12	90,90,90,90	0
85	MG	AR	3969	1/1	0.87	0.14	38,38,38,38	0
84	OHX	6	2050	7/7	0.87	0.14	190,191,192,193	0
85	MG	AR	3996	1/1	0.87	0.16	38,38,38,38	0
85	MG	A	2112	1/1	0.87	0.11	77,77,77,77	0
85	MG	AR	3999	1/1	0.87	0.17	28,28,28,28	0
85	MG	A	2117	1/1	0.87	0.13	52,52,52,52	0
85	MG	6	2091	1/1	0.87	0.23	54,54,54,54	0
84	OHX	A	2036	7/7	0.87	0.09	274,277,278,279	0
84	OHX	AT	215	7/7	0.87	0.14	212,213,213,213	0
84	OHX	AT	218	7/7	0.87	0.15	223,224,224,224	0
84	OHX	1	3692	7/7	0.87	0.14	189,190,191,191	0
84	OHX	1	3660	7/7	0.87	0.12	208,209,210,210	0
85	MG	AR	4053	1/1	0.87	0.20	50,50,50,50	0
84	OHX	A	2041	7/7	0.87	0.15	201,203,204,204	0
84	OHX	AR	3686	7/7	0.87	0.16	186,187,187,187	0
85	MG	1	4035	1/1	0.87	0.09	131,131,131,131	0
85	MG	A	2133	1/1	0.87	0.16	54,54,54,54	0
84	OHX	6	2000	7/7	0.87	0.12	210,211,212,213	0
85	MG	AR	4075	1/1	0.87	0.16	35,35,35,35	0
84	OHX	6	2035	7/7	0.87	0.18	157,158,159,159	0
84	OHX	3	208	7/7	0.87	0.13	230,231,232,233	0
85	MG	AR	4092	1/1	0.87	0.25	25,25,25,25	0
85	MG	6	2137	1/1	0.87	0.26	82,82,82,82	0
85	MG	1	4063	1/1	0.87	0.14	55,55,55,55	0
85	MG	6	2147	1/1	0.87	0.20	75,75,75,75	0
84	OHX	AR	3696	7/7	0.87	0.15	176,176,177,178	0
85	MG	A	2151	1/1	0.87	0.23	72,72,72,72	0
85	MG	6	2149	1/1	0.87	0.24	75,75,75,75	0
84	OHX	AR	3601	7/7	0.87	0.17	171,172,173,173	0
84	OHX	1	3670	7/7	0.87	0.16	215,215,217,217	0
84	OHX	1	3649	7/7	0.87	0.10	247,248,249,250	0
85	MG	6	2153	1/1	0.87	0.18	39,39,39,39	0
84	OHX	6	2040	7/7	0.87	0.16	199,200,201,202	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	AR	3629	7/7	0.87	0.11	209,210,211,212	0
84	OHX	AR	3632	7/7	0.87	0.12	227,227,228,228	0
84	OHX	AR	3669	7/7	0.88	0.10	245,246,247,248	0
84	OHX	AR	3628	7/7	0.88	0.15	209,210,211,211	0
84	OHX	AR	3675	7/7	0.88	0.15	210,211,212,212	0
85	MG	AS	221	1/1	0.88	0.11	36,36,36,36	0
84	OHX	A	1952	7/7	0.88	0.15	181,183,185,185	0
84	OHX	AR	3676	7/7	0.88	0.16	196,197,198,198	0
85	MG	AR	3789	1/1	0.88	0.14	36,36,36,36	0
84	OHX	AR	3677	7/7	0.88	0.20	180,180,181,181	0
84	OHX	1	3680	7/7	0.88	0.13	212,212,213,213	0
84	OHX	6	2019	7/7	0.88	0.13	191,192,193,194	0
85	MG	1	3989	1/1	0.88	0.28	20,20,20,20	0
85	MG	AR	3816	1/1	0.88	0.31	27,27,27,27	0
84	OHX	AR	3633	7/7	0.88	0.16	173,173,174,174	0
84	OHX	6	1990	7/7	0.88	0.15	238,238,239,240	0
85	MG	A	2046	1/1	0.88	0.15	56,56,56,56	0
84	OHX	1	3595	7/7	0.88	0.15	190,191,192,192	0
85	MG	A	2051	1/1	0.88	0.20	62,62,62,62	0
85	MG	1	4017	1/1	0.88	0.14	59,59,59,59	0
84	OHX	1	3544	7/7	0.88	0.13	187,188,190,190	0
84	OHX	c8	201	7/7	0.88	0.12	198,199,200,201	0
85	MG	A	2064	1/1	0.88	0.23	49,49,49,49	0
84	OHX	AR	3735	7/7	0.88	0.13	246,247,248,248	0
85	MG	A	2069	1/1	0.88	0.13	36,36,36,36	0
85	MG	A	2070	1/1	0.88	0.34	59,59,59,59	0
85	MG	A	2071	1/1	0.88	0.25	45,45,45,45	0
85	MG	AR	3856	1/1	0.88	0.33	10,10,10,10	0
85	MG	6	2096	1/1	0.88	0.24	48,48,48,48	0
85	MG	A	2074	1/1	0.88	0.33	38,38,38,38	0
85	MG	AR	3880	1/1	0.88	0.28	20,20,20,20	0
84	OHX	A	1999	7/7	0.88	0.11	214,215,217,217	0
84	OHX	4	212	7/7	0.88	0.17	201,202,202,202	0
84	OHX	1	3602	7/7	0.88	0.14	228,229,229,230	0
84	OHX	6	2057	7/7	0.88	0.09	247,247,250,250	0
85	MG	AR	3911	1/1	0.88	0.32	16,16,16,16	0
85	MG	AR	3923	1/1	0.88	0.22	32,32,32,32	0
84	OHX	AR	3701	7/7	0.88	0.11	207,208,208,208	0
85	MG	AR	3952	1/1	0.88	0.19	28,28,28,28	0
85	MG	AR	3955	1/1	0.88	0.09	32,32,32,32	0
85	MG	AR	3957	1/1	0.88	0.35	37,37,37,37	0
84	OHX	A	2012	7/7	0.88	0.12	218,220,220,222	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	MG	1	3773	1/1	0.88	0.27	15,15,15,15	0
84	OHX	AR	3564	7/7	0.88	0.17	189,190,190,190	0
84	OHX	AR	3599	7/7	0.88	0.17	201,202,203,203	0
84	OHX	1	3729	7/7	0.88	0.13	206,207,207,208	0
85	MG	AR	4001	1/1	0.88	0.25	41,41,41,41	0
84	OHX	A	2016	7/7	0.88	0.11	207,209,210,211	0
85	MG	A	2109	1/1	0.88	0.13	50,50,50,50	0
85	MG	6	2133	1/1	0.88	0.20	51,51,51,51	0
85	MG	1	3803	1/1	0.88	0.19	22,22,22,22	0
84	OHX	A	2022	7/7	0.88	0.09	229,230,232,233	0
85	MG	A	2115	1/1	0.88	0.15	85,85,85,85	0
85	MG	1	3810	1/1	0.88	0.15	86,86,86,86	0
85	MG	1	4103	1/1	0.88	0.11	60,60,60,60	0
85	MG	1	3818	1/1	0.88	0.31	19,19,19,19	0
85	MG	A	2120	1/1	0.88	0.17	74,74,74,74	0
85	MG	1	4108	1/1	0.88	0.12	33,33,33,33	0
84	OHX	AT	220	7/7	0.88	0.15	197,197,198,198	0
85	MG	AR	4062	1/1	0.88	0.17	54,54,54,54	0
85	MG	1	4117	1/1	0.88	0.26	26,26,26,26	0
84	OHX	AR	3710	7/7	0.88	0.12	213,215,216,216	0
85	MG	AR	4074	1/1	0.88	0.11	44,44,44,44	0
85	MG	1	3833	1/1	0.88	0.20	41,41,41,41	0
85	MG	6	2159	1/1	0.88	0.22	39,39,39,39	0
84	OHX	1	3635	7/7	0.88	0.10	219,220,221,222	0
85	MG	1	4142	1/1	0.88	0.46	47,47,47,47	0
85	MG	1	4144	1/1	0.88	0.11	59,59,59,59	0
85	MG	1	4150	1/1	0.88	0.23	73,73,73,73	0
85	MG	1	4159	1/1	0.88	0.07	42,42,42,42	0
84	OHX	6	2012	7/7	0.88	0.13	188,189,190,191	0
85	MG	1	3861	1/1	0.88	0.14	65,65,65,65	0
85	MG	6	2181	1/1	0.88	0.12	78,78,78,78	0
85	MG	6	2182	1/1	0.88	0.14	53,53,53,53	0
84	OHX	A	2028	7/7	0.88	0.10	252,254,254,256	0
84	OHX	AR	3612	7/7	0.88	0.17	182,183,184,184	0
85	MG	A	2152	1/1	0.88	0.25	78,78,78,78	0
85	MG	6	2190	1/1	0.88	0.10	84,84,84,84	0
85	MG	1	4180	1/1	0.88	0.30	55,55,55,55	0
84	OHX	AR	3616	7/7	0.88	0.11	210,210,211,212	0
85	MG	1	3919	1/1	0.88	0.18	30,30,30,30	0
85	MG	3	216	1/1	0.88	0.09	35,35,35,35	0
85	MG	1	3922	1/1	0.88	0.23	15,15,15,15	0
84	OHX	A	2032	7/7	0.88	0.09	234,236,237,239	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3695	7/7	0.88	0.15	200,201,202,202	0
85	MG	6	2156	1/1	0.89	0.07	50,50,50,50	0
84	OHX	AR	3703	7/7	0.89	0.12	214,214,214,214	0
84	OHX	6	2036	7/7	0.89	0.15	172,174,175,176	0
84	OHX	AR	3706	7/7	0.89	0.11	209,210,211,212	0
85	MG	1	3770	1/1	0.89	0.19	11,11,11,11	0
84	OHX	1	3642	7/7	0.89	0.15	193,193,195,195	0
84	OHX	6	1972	7/7	0.89	0.12	196,197,198,199	0
85	MG	6	2167	1/1	0.89	0.13	52,52,52,52	0
84	OHX	A	1991	7/7	0.89	0.13	218,220,221,221	0
84	OHX	1	3605	7/7	0.89	0.15	171,171,172,172	0
85	MG	AR	4209	1/1	0.89	0.09	48,48,48,48	0
84	OHX	AR	3712	7/7	0.89	0.22	183,183,184,184	0
84	OHX	AR	3713	7/7	0.89	0.09	247,247,248,249	0
85	MG	1	4113	1/1	0.89	0.20	54,54,54,54	0
84	OHX	6	1980	7/7	0.89	0.12	206,206,208,208	0
84	OHX	6	1982	7/7	0.89	0.21	171,172,173,174	0
85	MG	1	3813	1/1	0.89	0.19	24,24,24,24	0
85	MG	6	2191	1/1	0.89	0.13	47,47,47,47	0
85	MG	AS	220	1/1	0.89	0.13	42,42,42,42	0
85	MG	1	4134	1/1	0.89	0.18	50,50,50,50	0
85	MG	1	3817	1/1	0.89	0.26	32,32,32,32	0
84	OHX	AR	3639	7/7	0.89	0.10	211,212,213,213	0
84	OHX	1	3647	7/7	0.89	0.11	203,204,205,206	0
84	OHX	1	3721	7/7	0.89	0.13	191,192,193,193	0
85	MG	1	4154	1/1	0.89	0.10	92,92,92,92	0
85	MG	CE	406	1/1	0.89	0.24	48,48,48,48	0
85	MG	1	4157	1/1	0.89	0.11	37,37,37,37	0
84	OHX	A	2007	7/7	0.89	0.09	275,277,278,279	0
84	OHX	AR	3723	7/7	0.89	0.10	240,241,242,242	0
85	MG	1	3838	1/1	0.89	0.25	20,20,20,20	0
85	MG	1	3840	1/1	0.89	0.07	39,39,39,39	0
85	MG	AR	3772	1/1	0.89	0.12	81,81,81,81	0
84	OHX	6	1998	7/7	0.89	0.10	239,240,243,244	0
85	MG	AR	3788	1/1	0.89	0.16	45,45,45,45	0
85	MG	1	3855	1/1	0.89	0.26	26,26,26,26	0
85	MG	A	2055	1/1	0.89	0.19	48,48,48,48	0
85	MG	AR	3791	1/1	0.89	0.25	32,32,32,32	0
84	OHX	1	3606	7/7	0.89	0.15	193,194,194,195	0
85	MG	1	3867	1/1	0.89	0.20	26,26,26,26	0
85	MG	A	2066	1/1	0.89	0.37	62,62,62,62	0
85	MG	1	4206	1/1	0.89	0.18	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3630	7/7	0.89	0.11	199,200,200,201	0
85	MG	1	3900	1/1	0.89	0.35	34,34,34,34	0
85	MG	3	218	1/1	0.89	0.09	49,49,49,49	0
84	OHX	6	2002	7/7	0.89	0.10	218,220,221,221	0
85	MG	AR	3824	1/1	0.89	0.14	62,62,62,62	0
85	MG	1	3913	1/1	0.89	0.22	38,38,38,38	0
85	MG	AR	3828	1/1	0.89	0.15	47,47,47,47	0
85	MG	A	2078	1/1	0.89	0.28	28,28,28,28	0
84	OHX	1	3668	7/7	0.89	0.15	179,179,180,181	0
84	OHX	1	3651	7/7	0.89	0.11	207,208,209,209	0
85	MG	AR	3842	1/1	0.89	0.27	10,10,10,10	0
84	OHX	1	3601	7/7	0.89	0.14	200,200,201,202	0
85	MG	1	3926	1/1	0.89	0.29	21,21,21,21	0
85	MG	A	2087	1/1	0.89	0.16	57,57,57,57	0
85	MG	AR	3851	1/1	0.89	0.20	29,29,29,29	0
84	OHX	1	3618	7/7	0.89	0.14	189,190,191,192	0
85	MG	1	3933	1/1	0.89	0.24	37,37,37,37	0
84	OHX	A	2026	7/7	0.89	0.15	191,192,194,194	0
85	MG	1	3941	1/1	0.89	0.13	36,36,36,36	0
84	OHX	1	3556	7/7	0.89	0.13	180,181,182,183	0
84	OHX	1	3620	7/7	0.89	0.17	208,208,209,209	0
85	MG	1	3960	1/1	0.89	0.07	27,27,27,27	0
84	OHX	1	3679	7/7	0.89	0.11	230,231,232,232	0
84	OHX	1	3657	7/7	0.89	0.18	170,171,171,171	0
84	OHX	1	3640	7/7	0.89	0.14	194,195,196,196	0
84	OHX	AG	201	7/7	0.89	0.15	186,187,188,188	0
85	MG	6	2087	1/1	0.89	0.20	28,28,28,28	0
84	OHX	1	3683	7/7	0.89	0.11	197,198,199,199	0
85	MG	6	2093	1/1	0.89	0.17	47,47,47,47	0
85	MG	AR	3963	1/1	0.89	0.26	23,23,23,23	0
85	MG	AR	3967	1/1	0.89	0.22	64,64,64,64	0
84	OHX	AR	3577	7/7	0.89	0.17	201,201,202,202	0
84	OHX	AT	216	7/7	0.89	0.12	193,193,193,193	0
85	MG	1	3990	1/1	0.89	0.20	36,36,36,36	0
85	MG	6	2103	1/1	0.89	0.29	40,40,40,40	0
84	OHX	AR	3581	7/7	0.89	0.18	205,205,205,205	0
85	MG	1	4005	1/1	0.89	0.20	37,37,37,37	0
85	MG	1	4006	1/1	0.89	0.13	33,33,33,33	0
85	MG	6	2115	1/1	0.89	0.25	36,36,36,36	0
84	OHX	AR	3589	7/7	0.89	0.12	186,187,188,189	0
84	OHX	AR	3683	7/7	0.89	0.13	178,179,179,180	0
84	OHX	A	2042	7/7	0.89	0.10	240,242,244,245	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4026	1/1	0.89	0.22	44,44,44,44	0
85	MG	1	4031	1/1	0.89	0.09	38,38,38,38	0
85	MG	AR	4056	1/1	0.89	0.18	44,44,44,44	0
84	OHX	AR	3684	7/7	0.89	0.13	181,182,183,183	0
84	OHX	1	3687	7/7	0.89	0.18	196,196,197,197	0
85	MG	AR	4065	1/1	0.89	0.19	54,54,54,54	0
84	OHX	r	301	7/7	0.89	0.17	167,168,168,169	0
85	MG	AR	4070	1/1	0.89	0.11	42,42,42,42	0
85	MG	A	2146	1/1	0.89	0.17	29,29,29,29	0
84	OHX	x	201	7/7	0.89	0.22	169,169,170,170	0
84	OHX	AR	3688	7/7	0.89	0.12	199,200,201,201	0
84	OHX	AR	3692	7/7	0.89	0.14	184,186,186,187	0
85	MG	AR	4077	1/1	0.89	0.22	49,49,49,49	0
84	OHX	6	2031	7/7	0.89	0.12	210,211,213,213	0
84	OHX	1	3716	7/7	0.89	0.11	205,206,208,209	0
85	MG	AR	4091	1/1	0.89	0.17	53,53,53,53	0
84	OHX	6	2034	7/7	0.89	0.10	236,238,239,240	0
85	MG	AR	4093	1/1	0.89	0.19	46,46,46,46	0
85	MG	AR	4096	1/1	0.89	0.19	53,53,53,53	0
84	OHX	AR	3620	7/7	0.89	0.11	180,182,183,184	0
84	OHX	1	3641	7/7	0.89	0.12	195,196,197,197	0
85	MG	6	2155	1/1	0.89	0.14	61,61,61,61	0
85	MG	AR	4100	1/1	0.90	0.28	67,67,67,67	0
85	MG	AR	4106	1/1	0.90	0.22	55,55,55,55	0
85	MG	AR	4109	1/1	0.90	0.21	42,42,42,42	0
85	MG	1	3881	1/1	0.90	0.24	35,35,35,35	0
85	MG	1	3887	1/1	0.90	0.17	49,49,49,49	0
85	MG	AR	4125	1/1	0.90	0.24	62,62,62,62	0
84	OHX	6	1991	7/7	0.90	0.13	184,185,187,187	0
84	OHX	A	2033	7/7	0.90	0.13	210,212,214,214	0
85	MG	1	4168	1/1	0.90	0.24	51,51,51,51	0
85	MG	1	3909	1/1	0.90	0.22	24,24,24,24	0
84	OHX	AR	3644	7/7	0.90	0.14	197,197,198,199	0
84	OHX	AR	3646	7/7	0.90	0.15	167,168,169,169	0
84	OHX	CG	302	7/7	0.90	0.10	210,211,212,213	0
84	OHX	AR	3704	7/7	0.90	0.13	223,224,225,225	0
85	MG	AR	4179	1/1	0.90	0.11	58,58,58,58	0
84	OHX	1	3697	7/7	0.90	0.10	238,240,241,241	0
84	OHX	6	1997	7/7	0.90	0.11	198,199,201,201	0
84	OHX	AR	3554	7/7	0.90	0.14	159,160,161,161	0
84	OHX	1	3698	7/7	0.90	0.14	177,178,178,179	0
85	MG	AR	4211	1/1	0.90	0.16	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	AR	3659	7/7	0.90	0.16	195,196,196,197	0
85	MG	AR	3764	1/1	0.90	0.12	27,27,27,27	0
85	MG	AR	3769	1/1	0.90	0.09	35,35,35,35	0
84	OHX	A	1941	7/7	0.90	0.10	195,197,198,198	0
84	OHX	A	1946	7/7	0.90	0.13	212,214,216,217	0
85	MG	AR	4230	1/1	0.90	0.20	68,68,68,68	0
85	MG	AR	3783	1/1	0.90	0.22	15,15,15,15	0
85	MG	AR	4243	1/1	0.90	0.23	22,22,22,22	0
85	MG	AR	4244	1/1	0.90	0.14	44,44,44,44	0
84	OHX	1	3559	7/7	0.90	0.15	182,183,184,184	0
85	MG	1	3963	1/1	0.90	0.13	69,69,69,69	0
85	MG	x	204	1/1	0.90	0.11	18,18,18,18	0
84	OHX	A	1959	7/7	0.90	0.12	180,182,183,184	0
85	MG	AR	3804	1/1	0.90	0.14	36,36,36,36	0
85	MG	AR	3805	1/1	0.90	0.16	39,39,39,39	0
84	OHX	1	3701	7/7	0.90	0.13	181,182,182,182	0
85	MG	AT	231	1/1	0.90	0.12	46,46,46,46	0
85	MG	AR	3807	1/1	0.90	0.12	27,27,27,27	0
85	MG	AR	3809	1/1	0.90	0.14	86,86,86,86	0
85	MG	CK	202	1/1	0.90	0.18	52,52,52,52	0
85	MG	6	2060	1/1	0.90	0.24	23,23,23,23	0
85	MG	CP	502	1/1	0.90	0.14	25,25,25,25	0
84	OHX	1	3681	7/7	0.90	0.11	210,211,212,212	0
85	MG	1	3732	1/1	0.90	0.22	27,27,27,27	0
84	OHX	AR	3598	7/7	0.90	0.10	205,206,207,208	0
85	MG	DI	202	1/1	0.90	0.24	32,32,32,32	0
85	MG	1	3738	1/1	0.90	0.19	57,57,57,57	0
84	OHX	1	3608	7/7	0.90	0.14	177,177,179,179	0
84	OHX	1	3650	7/7	0.90	0.12	179,181,181,182	0
84	OHX	1	3686	7/7	0.90	0.12	207,208,209,209	0
85	MG	1	4001	1/1	0.90	0.10	65,65,65,65	0
85	MG	1	4002	1/1	0.90	0.14	104,104,104,104	0
85	MG	1	3753	1/1	0.90	0.16	28,28,28,28	0
85	MG	AR	3845	1/1	0.90	0.28	32,32,32,32	0
84	OHX	A	1990	7/7	0.90	0.11	212,215,216,216	0
84	OHX	AR	3722	7/7	0.90	0.13	200,201,201,202	0
84	OHX	AR	3606	7/7	0.90	0.16	155,156,157,157	0
84	OHX	A	1995	7/7	0.90	0.12	206,207,208,209	0
84	OHX	AR	3673	7/7	0.90	0.19	179,180,180,180	0
85	MG	AR	3864	1/1	0.90	0.24	21,21,21,21	0
85	MG	AR	3875	1/1	0.90	0.12	48,48,48,48	0
85	MG	1	4027	1/1	0.90	0.10	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	AR	3674	7/7	0.90	0.14	215,215,216,216	0
85	MG	6	2100	1/1	0.90	0.25	16,16,16,16	0
85	MG	A	2076	1/1	0.90	0.25	50,50,50,50	0
85	MG	AR	3890	1/1	0.90	0.30	33,33,33,33	0
84	OHX	6	2011	7/7	0.90	0.12	205,205,207,207	0
85	MG	1	3781	1/1	0.90	0.14	24,24,24,24	0
85	MG	AR	3905	1/1	0.90	0.25	24,24,24,24	0
85	MG	6	2109	1/1	0.90	0.17	39,39,39,39	0
84	OHX	1	3723	7/7	0.90	0.12	201,202,203,204	0
85	MG	1	3788	1/1	0.90	0.25	34,34,34,34	0
85	MG	AR	3941	1/1	0.90	0.13	46,46,46,46	0
85	MG	AR	3942	1/1	0.90	0.10	45,45,45,45	0
85	MG	1	4040	1/1	0.90	0.20	42,42,42,42	0
85	MG	6	2116	1/1	0.90	0.30	41,41,41,41	0
85	MG	6	2118	1/1	0.90	0.23	54,54,54,54	0
85	MG	6	2120	1/1	0.90	0.27	61,61,61,61	0
85	MG	1	3790	1/1	0.90	0.29	15,15,15,15	0
85	MG	AR	3965	1/1	0.90	0.14	54,54,54,54	0
85	MG	AR	3966	1/1	0.90	0.09	24,24,24,24	0
84	OHX	y	201	7/7	0.90	0.12	204,205,207,208	0
85	MG	AR	3968	1/1	0.90	0.10	29,29,29,29	0
84	OHX	AR	3618	7/7	0.90	0.15	195,196,196,196	0
84	OHX	1	3659	7/7	0.90	0.15	208,210,211,211	0
85	MG	AR	3972	1/1	0.90	0.20	38,38,38,38	0
85	MG	AR	3983	1/1	0.90	0.19	24,24,24,24	0
85	MG	AR	3994	1/1	0.90	0.22	44,44,44,44	0
85	MG	AR	3995	1/1	0.90	0.07	38,38,38,38	0
85	MG	1	3809	1/1	0.90	0.23	23,23,23,23	0
84	OHX	AR	3731	7/7	0.90	0.16	175,176,177,178	0
84	OHX	AR	3681	7/7	0.90	0.10	198,199,200,201	0
85	MG	1	4077	1/1	0.90	0.11	42,42,42,42	0
84	OHX	6	2016	7/7	0.90	0.12	194,194,196,196	0
85	MG	1	4081	1/1	0.90	0.10	35,35,35,35	0
84	OHX	6	1955	7/7	0.90	0.14	191,193,195,196	0
85	MG	1	3821	1/1	0.90	0.14	37,37,37,37	0
85	MG	AR	4032	1/1	0.90	0.17	47,47,47,47	0
84	OHX	1	3564	7/7	0.90	0.11	173,175,175,175	0
85	MG	AR	4037	1/1	0.90	0.23	33,33,33,33	0
84	OHX	1	3566	7/7	0.90	0.17	182,182,183,183	0
84	OHX	6	2024	7/7	0.90	0.11	207,208,210,211	0
84	OHX	1	3570	7/7	0.90	0.13	202,203,204,205	0
84	OHX	AR	3635	7/7	0.90	0.12	173,175,175,175	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	A	2136	1/1	0.90	0.10	110,110,110,110	0
84	OHX	AT	211	7/7	0.90	0.17	179,179,180,180	0
85	MG	AR	4063	1/1	0.90	0.12	39,39,39,39	0
85	MG	1	3847	1/1	0.90	0.28	23,23,23,23	0
85	MG	1	4111	1/1	0.90	0.19	62,62,62,62	0
85	MG	AR	4068	1/1	0.90	0.25	25,25,25,25	0
85	MG	AR	4069	1/1	0.90	0.20	53,53,53,53	0
85	MG	1	3852	1/1	0.90	0.28	22,22,22,22	0
84	OHX	AR	3637	7/7	0.90	0.10	204,205,205,205	0
85	MG	1	4119	1/1	0.90	0.09	35,35,35,35	0
84	OHX	1	3575	7/7	0.90	0.15	187,188,189,189	0
85	MG	1	3859	1/1	0.90	0.25	33,33,33,33	0
85	MG	F	301	1/1	0.90	0.18	71,71,71,71	0
85	MG	6	2170	1/1	0.90	0.18	46,46,46,46	0
85	MG	b	101	1/1	0.90	0.11	57,57,57,57	0
84	OHX	1	3665	7/7	0.90	0.10	209,210,211,211	0
85	MG	1	3866	1/1	0.90	0.30	46,46,46,46	0
84	OHX	3	207	7/7	0.90	0.11	188,189,190,191	0
85	MG	1	3878	1/1	0.90	0.15	36,36,36,36	0
85	MG	AR	4094	1/1	0.90	0.18	38,38,38,38	0
84	OHX	AR	3700	7/7	0.90	0.14	174,175,175,176	0
85	MG	AR	4114	1/1	0.91	0.12	30,30,30,30	0
85	MG	1	4194	1/1	0.91	0.24	82,82,82,82	0
85	MG	AR	4121	1/1	0.91	0.21	42,42,42,42	0
85	MG	1	3958	1/1	0.91	0.15	54,54,54,54	0
85	MG	1	4204	1/1	0.91	0.33	12,12,12,12	0
85	MG	1	3959	1/1	0.91	0.13	54,54,54,54	0
85	MG	AR	3762	1/1	0.91	0.18	40,40,40,40	0
85	MG	AR	4130	1/1	0.91	0.08	19,19,19,19	0
85	MG	1	4211	1/1	0.91	0.21	21,21,21,21	0
84	OHX	1	3523	7/7	0.91	0.15	157,158,159,160	0
85	MG	1	3758	1/1	0.91	0.24	31,31,31,31	0
84	OHX	6	2056	7/7	0.91	0.10	214,215,217,218	0
85	MG	1	3967	1/1	0.91	0.23	47,47,47,47	0
85	MG	4	226	1/1	0.91	0.10	54,54,54,54	0
84	OHX	1	3568	7/7	0.91	0.11	195,196,196,197	0
84	OHX	AE	201	7/7	0.91	0.12	194,195,195,196	0
85	MG	o	303	1/1	0.91	0.14	38,38,38,38	0
84	OHX	1	3557	7/7	0.91	0.12	186,187,188,188	0
85	MG	t	201	1/1	0.91	0.07	37,37,37,37	0
84	OHX	A	2000	7/7	0.91	0.11	194,195,196,197	0
84	OHX	AR	3526	7/7	0.91	0.11	164,166,167,167	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	AR	3529	7/7	0.91	0.17	161,162,163,163	0
84	OHX	AR	3530	7/7	0.91	0.17	147,148,148,148	0
85	MG	1	3783	1/1	0.91	0.20	27,27,27,27	0
85	MG	6	2062	1/1	0.91	0.21	32,32,32,32	0
85	MG	AR	4223	1/1	0.91	0.09	54,54,54,54	0
84	OHX	AR	3736	7/7	0.91	0.12	184,185,186,187	0
84	OHX	1	3441	7/7	0.91	0.16	168,169,169,170	0
84	OHX	A	2011	7/7	0.91	0.10	208,209,211,211	0
84	OHX	AR	3693	7/7	0.91	0.09	238,239,240,240	0
85	MG	AS	213	1/1	0.91	0.15	40,40,40,40	0
84	OHX	1	3622	7/7	0.91	0.12	211,212,213,213	0
85	MG	6	2072	1/1	0.91	0.14	36,36,36,36	0
84	OHX	AR	3571	7/7	0.91	0.10	194,194,195,195	0
85	MG	1	3808	1/1	0.91	0.21	54,54,54,54	0
84	OHX	3	205	7/7	0.91	0.10	169,171,171,173	0
85	MG	AT	221	1/1	0.91	0.20	26,26,26,26	0
84	OHX	AR	3699	7/7	0.91	0.12	194,195,196,196	0
84	OHX	A	2019	7/7	0.91	0.09	252,253,255,256	0
85	MG	6	2085	1/1	0.91	0.16	40,40,40,40	0
85	MG	AR	3852	1/1	0.91	0.30	18,18,18,18	0
85	MG	6	2086	1/1	0.91	0.21	49,49,49,49	0
84	OHX	AR	3579	7/7	0.91	0.15	183,184,185,185	0
85	MG	6	2089	1/1	0.91	0.15	34,34,34,34	0
84	OHX	AR	3650	7/7	0.91	0.13	177,177,178,178	0
85	MG	CP	503	1/1	0.91	0.17	95,95,95,95	0
85	MG	AR	3876	1/1	0.91	0.18	30,30,30,30	0
85	MG	AR	3879	1/1	0.91	0.30	21,21,21,21	0
84	OHX	1	3678	7/7	0.91	0.09	228,228,229,230	0
85	MG	DE	201	1/1	0.91	0.13	55,55,55,55	0
84	OHX	AR	3584	7/7	0.91	0.15	169,169,170,171	0
85	MG	1	3828	1/1	0.91	0.27	29,29,29,29	0
84	OHX	AR	3585	7/7	0.91	0.14	165,166,167,167	0
85	MG	1	3830	1/1	0.91	0.22	60,60,60,60	0
85	MG	1	4050	1/1	0.91	0.20	34,34,34,34	0
85	MG	AR	3895	1/1	0.91	0.22	21,21,21,21	0
85	MG	AR	3900	1/1	0.91	0.22	29,29,29,29	0
85	MG	A	2056	1/1	0.91	0.21	39,39,39,39	0
85	MG	AR	3902	1/1	0.91	0.29	24,24,24,24	0
85	MG	6	2106	1/1	0.91	0.28	32,32,32,32	0
84	OHX	AR	3658	7/7	0.91	0.15	177,177,179,179	0
85	MG	A	2065	1/1	0.91	0.09	31,31,31,31	0
85	MG	AR	3915	1/1	0.91	0.28	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3592	7/7	0.91	0.18	166,166,167,167	0
85	MG	AR	3926	1/1	0.91	0.28	10,10,10,10	0
84	OHX	AR	3707	7/7	0.91	0.18	207,207,207,207	0
85	MG	AR	3933	1/1	0.91	0.24	13,13,13,13	0
85	MG	AR	3935	1/1	0.91	0.20	22,22,22,22	0
85	MG	1	4070	1/1	0.91	0.09	37,37,37,37	0
85	MG	6	2112	1/1	0.91	0.27	25,25,25,25	0
84	OHX	AR	3597	7/7	0.91	0.13	176,177,178,178	0
85	MG	AR	3954	1/1	0.91	0.22	36,36,36,36	0
85	MG	1	4074	1/1	0.91	0.11	45,45,45,45	0
85	MG	AR	3956	1/1	0.91	0.12	41,41,41,41	0
84	OHX	CK	201	7/7	0.91	0.12	185,185,186,187	0
85	MG	A	2081	1/1	0.91	0.26	48,48,48,48	0
84	OHX	AR	3709	7/7	0.91	0.20	163,163,164,164	0
85	MG	1	4078	1/1	0.91	0.06	44,44,44,44	0
85	MG	A	2085	1/1	0.91	0.20	47,47,47,47	0
85	MG	6	2123	1/1	0.91	0.14	60,60,60,60	0
84	OHX	6	1988	7/7	0.91	0.10	191,193,195,195	0
84	OHX	6	2020	7/7	0.91	0.14	177,178,179,179	0
85	MG	1	3858	1/1	0.91	0.36	12,12,12,12	0
84	OHX	1	3549	7/7	0.91	0.15	190,190,191,192	0
85	MG	1	4095	1/1	0.91	0.17	53,53,53,53	0
84	OHX	DI	201	7/7	0.91	0.14	194,195,195,196	0
85	MG	AR	3976	1/1	0.91	0.16	42,42,42,42	0
84	OHX	1	3610	7/7	0.91	0.10	212,212,212,212	0
85	MG	6	2139	1/1	0.91	0.06	75,75,75,75	0
84	OHX	A	1935	7/7	0.91	0.12	191,193,195,195	0
85	MG	1	3877	1/1	0.91	0.16	44,44,44,44	0
85	MG	AR	3998	1/1	0.91	0.22	18,18,18,18	0
85	MG	1	4105	1/1	0.91	0.28	64,64,64,64	0
85	MG	A	2108	1/1	0.91	0.15	39,39,39,39	0
84	OHX	AR	3714	7/7	0.91	0.13	192,193,193,194	0
84	OHX	A	1943	7/7	0.91	0.15	161,163,164,165	0
85	MG	A	2111	1/1	0.91	0.11	68,68,68,68	0
84	OHX	1	3613	7/7	0.91	0.13	166,166,167,168	0
85	MG	1	4110	1/1	0.91	0.23	37,37,37,37	0
85	MG	1	3884	1/1	0.91	0.27	27,27,27,27	0
84	OHX	1	3634	7/7	0.91	0.10	206,207,207,209	0
85	MG	1	4116	1/1	0.91	0.07	81,81,81,81	0
85	MG	1	3899	1/1	0.91	0.27	12,12,12,12	0
84	OHX	A	1958	7/7	0.91	0.10	206,207,210,210	0
85	MG	AR	4047	1/1	0.91	0.21	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	4048	1/1	0.91	0.11	33,33,33,33	0
85	MG	AR	4050	1/1	0.91	0.20	46,46,46,46	0
85	MG	1	4125	1/1	0.91	0.13	58,58,58,58	0
85	MG	1	3903	1/1	0.91	0.29	32,32,32,32	0
84	OHX	1	3615	7/7	0.91	0.14	185,186,186,187	0
84	OHX	A	1960	7/7	0.91	0.11	225,226,227,228	0
85	MG	AR	4061	1/1	0.91	0.18	40,40,40,40	0
85	MG	A	2132	1/1	0.91	0.14	71,71,71,71	0
85	MG	1	3910	1/1	0.91	0.18	30,30,30,30	0
84	OHX	AR	3671	7/7	0.91	0.21	166,166,167,167	0
85	MG	AR	4064	1/1	0.91	0.09	30,30,30,30	0
84	OHX	1	3596	7/7	0.91	0.14	183,184,185,185	0
85	MG	A	2137	1/1	0.91	0.15	40,40,40,40	0
84	OHX	1	3691	7/7	0.91	0.10	206,207,208,208	0
84	OHX	1	3708	7/7	0.91	0.09	210,211,211,211	0
84	OHX	AR	3621	7/7	0.91	0.12	208,209,210,211	0
85	MG	1	3745	1/1	0.91	0.27	20,20,20,20	0
85	MG	A	2145	1/1	0.91	0.14	83,83,83,83	0
85	MG	1	3929	1/1	0.91	0.26	20,20,20,20	0
84	OHX	AR	3622	7/7	0.91	0.11	203,203,204,205	0
85	MG	1	3747	1/1	0.91	0.21	28,28,28,28	0
84	OHX	6	2003	7/7	0.91	0.16	180,182,183,184	0
85	MG	1	3949	1/1	0.91	0.15	41,41,41,41	0
85	MG	1	4179	1/1	0.91	0.16	42,42,42,42	0
85	MG	1	3750	1/1	0.91	0.13	70,70,70,70	0
85	MG	AB	201	1/1	0.91	0.28	15,15,15,15	0
85	MG	1	4181	1/1	0.91	0.06	50,50,50,50	0
85	MG	1	4182	1/1	0.91	0.18	49,49,49,49	0
84	OHX	6	2004	7/7	0.91	0.15	193,194,195,196	0
85	MG	AR	4098	1/1	0.91	0.09	27,27,27,27	0
85	MG	1	4191	1/1	0.91	0.26	22,22,22,22	0
85	MG	AR	3748	1/1	0.91	0.17	41,41,41,41	0
85	MG	AR	4108	1/1	0.91	0.12	25,25,25,25	0
85	MG	AR	3750	1/1	0.91	0.18	19,19,19,19	0
84	OHX	1	3597	7/7	0.92	0.09	237,238,240,240	0
85	MG	1	4192	1/1	0.92	0.19	38,38,38,38	0
85	MG	AR	4112	1/1	0.92	0.14	70,70,70,70	0
84	OHX	1	3639	7/7	0.92	0.13	201,203,203,204	0
84	OHX	AR	3578	7/7	0.92	0.11	188,188,189,189	0
85	MG	AR	4117	1/1	0.92	0.14	53,53,53,53	0
85	MG	AR	4119	1/1	0.92	0.10	77,77,77,77	0
85	MG	1	4203	1/1	0.92	0.31	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3795	1/1	0.92	0.09	37,37,37,37	0
85	MG	1	3971	1/1	0.92	0.11	63,63,63,63	0
85	MG	AR	4126	1/1	0.92	0.16	73,73,73,73	0
85	MG	1	3975	1/1	0.92	0.12	43,43,43,43	0
85	MG	1	4221	1/1	0.92	0.29	22,22,22,22	0
85	MG	3	210	1/1	0.92	0.15	41,41,41,41	0
85	MG	AR	4138	1/1	0.92	0.16	44,44,44,44	0
85	MG	AR	3784	1/1	0.92	0.14	29,29,29,29	0
85	MG	AR	4145	1/1	0.92	0.17	38,38,38,38	0
85	MG	AR	4147	1/1	0.92	0.16	62,62,62,62	0
84	OHX	6	1977	7/7	0.92	0.10	193,194,196,196	0
85	MG	1	3978	1/1	0.92	0.20	32,32,32,32	0
85	MG	AR	4157	1/1	0.92	0.20	29,29,29,29	0
85	MG	1	3979	1/1	0.92	0.09	47,47,47,47	0
85	MG	AR	3797	1/1	0.92	0.26	18,18,18,18	0
85	MG	1	3981	1/1	0.92	0.27	59,59,59,59	0
85	MG	AR	4172	1/1	0.92	0.12	25,25,25,25	0
84	OHX	AR	3649	7/7	0.92	0.10	207,208,208,208	0
85	MG	4	228	1/1	0.92	0.23	42,42,42,42	0
84	OHX	A	2017	7/7	0.92	0.09	220,223,224,224	0
85	MG	4	233	1/1	0.92	0.19	61,61,61,61	0
85	MG	AR	4197	1/1	0.92	0.14	29,29,29,29	0
85	MG	AR	4201	1/1	0.92	0.15	31,31,31,31	0
85	MG	AR	3808	1/1	0.92	0.09	33,33,33,33	0
85	MG	1	3806	1/1	0.92	0.21	31,31,31,31	0
84	OHX	1	3609	7/7	0.92	0.11	191,193,194,195	0
84	OHX	AR	3582	7/7	0.92	0.12	166,167,167,168	0
84	OHX	6	2018	7/7	0.92	0.13	186,187,188,189	0
85	MG	t	202	1/1	0.92	0.17	64,64,64,64	0
85	MG	v	302	1/1	0.92	0.20	43,43,43,43	0
85	MG	w	201	1/1	0.92	0.09	33,33,33,33	0
85	MG	AR	4224	1/1	0.92	0.24	26,26,26,26	0
84	OHX	AR	3655	7/7	0.92	0.10	216,218,218,219	0
84	OHX	AR	3656	7/7	0.92	0.10	187,187,189,189	0
84	OHX	1	3587	7/7	0.92	0.15	188,189,189,190	0
84	OHX	AR	3587	7/7	0.92	0.11	175,176,177,177	0
85	MG	AR	3841	1/1	0.92	0.21	25,25,25,25	0
84	OHX	4	206	7/7	0.92	0.16	179,179,180,180	0
85	MG	AS	219	1/1	0.92	0.08	35,35,35,35	0
85	MG	1	4013	1/1	0.92	0.12	56,56,56,56	0
84	OHX	AR	3591	7/7	0.92	0.15	168,169,169,169	0
85	MG	AS	225	1/1	0.92	0.07	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AS	227	1/1	0.92	0.20	43,43,43,43	0
85	MG	6	2065	1/1	0.92	0.20	32,32,32,32	0
85	MG	1	4021	1/1	0.92	0.12	29,29,29,29	0
84	OHX	A	2030	7/7	0.92	0.10	208,209,211,212	0
84	OHX	1	3612	7/7	0.92	0.10	173,174,175,175	0
85	MG	AT	226	1/1	0.92	0.19	44,44,44,44	0
85	MG	AR	3857	1/1	0.92	0.16	46,46,46,46	0
85	MG	1	4029	1/1	0.92	0.15	42,42,42,42	0
85	MG	CD	302	1/1	0.92	0.35	39,39,39,39	0
85	MG	AR	3862	1/1	0.92	0.24	20,20,20,20	0
84	OHX	6	2022	7/7	0.92	0.10	235,235,238,239	0
84	OHX	A	1934	7/7	0.92	0.12	176,177,179,179	0
84	OHX	1	3643	7/7	0.92	0.10	192,193,194,194	0
85	MG	6	2077	1/1	0.92	0.27	51,51,51,51	0
84	OHX	A	2035	7/7	0.92	0.15	177,178,180,181	0
85	MG	CQ	203	1/1	0.92	0.17	28,28,28,28	0
85	MG	CQ	204	1/1	0.92	0.14	48,48,48,48	0
85	MG	1	3842	1/1	0.92	0.24	27,27,27,27	0
85	MG	AR	3888	1/1	0.92	0.30	33,33,33,33	0
84	OHX	AR	3665	7/7	0.92	0.13	189,189,189,189	0
85	MG	DD	101	1/1	0.92	0.09	32,32,32,32	0
85	MG	6	2082	1/1	0.92	0.29	25,25,25,25	0
85	MG	6	2083	1/1	0.92	0.25	35,35,35,35	0
85	MG	1	4041	1/1	0.92	0.15	38,38,38,38	0
84	OHX	1	3628	7/7	0.92	0.08	234,235,236,237	0
85	MG	A	2047	1/1	0.92	0.18	55,55,55,55	0
85	MG	A	2048	1/1	0.92	0.14	42,42,42,42	0
84	OHX	6	1996	7/7	0.92	0.11	190,191,192,193	0
85	MG	1	4045	1/1	0.92	0.06	62,62,62,62	0
85	MG	1	4047	1/1	0.92	0.34	39,39,39,39	0
85	MG	AR	3908	1/1	0.92	0.27	18,18,18,18	0
84	OHX	A	1951	7/7	0.92	0.10	203,205,207,207	0
85	MG	1	4052	1/1	0.92	0.13	48,48,48,48	0
85	MG	A	2059	1/1	0.92	0.22	25,25,25,25	0
85	MG	A	2062	1/1	0.92	0.25	48,48,48,48	0
84	OHX	1	3629	7/7	0.92	0.15	161,162,162,163	0
85	MG	1	4058	1/1	0.92	0.14	37,37,37,37	0
84	OHX	6	2027	7/7	0.92	0.18	187,188,189,190	0
85	MG	AR	3932	1/1	0.92	0.23	25,25,25,25	0
85	MG	A	2067	1/1	0.92	0.27	32,32,32,32	0
84	OHX	AR	3721	7/7	0.92	0.09	212,213,213,214	0
85	MG	1	4066	1/1	0.92	0.21	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	3938	1/1	0.92	0.29	20,20,20,20	0
85	MG	1	4068	1/1	0.92	0.09	39,39,39,39	0
84	OHX	1	3589	7/7	0.92	0.13	179,180,181,181	0
85	MG	AR	3945	1/1	0.92	0.20	22,22,22,22	0
84	OHX	A	1966	7/7	0.92	0.12	194,195,196,197	0
85	MG	AR	3953	1/1	0.92	0.19	35,35,35,35	0
85	MG	1	3869	1/1	0.92	0.18	33,33,33,33	0
85	MG	1	3872	1/1	0.92	0.20	23,23,23,23	0
84	OHX	AR	3615	7/7	0.92	0.17	169,170,171,171	0
84	OHX	1	3553	7/7	0.92	0.10	184,185,186,186	0
84	OHX	1	3511	7/7	0.92	0.12	166,167,168,168	0
85	MG	1	3880	1/1	0.92	0.18	29,29,29,29	0
84	OHX	A	1978	7/7	0.92	0.09	210,212,214,214	0
85	MG	1	4091	1/1	0.92	0.14	49,49,49,49	0
84	OHX	A	1979	7/7	0.92	0.10	200,203,204,205	0
85	MG	1	3886	1/1	0.92	0.28	24,24,24,24	0
85	MG	A	2088	1/1	0.92	0.13	66,66,66,66	0
84	OHX	d9	101	7/7	0.92	0.09	234,235,236,237	0
85	MG	1	3889	1/1	0.92	0.27	19,19,19,19	0
85	MG	1	3890	1/1	0.92	0.28	23,23,23,23	0
85	MG	1	3892	1/1	0.92	0.24	14,14,14,14	0
85	MG	6	2134	1/1	0.92	0.15	43,43,43,43	0
85	MG	AR	3988	1/1	0.92	0.06	32,32,32,32	0
85	MG	AR	3990	1/1	0.92	0.14	37,37,37,37	0
85	MG	1	3898	1/1	0.92	0.19	22,22,22,22	0
84	OHX	1	3725	7/7	0.92	0.12	203,204,205,206	0
84	OHX	A	1983	7/7	0.92	0.11	188,190,192,192	0
84	OHX	6	2033	7/7	0.92	0.15	199,200,201,202	0
85	MG	A	2105	1/1	0.92	0.14	71,71,71,71	0
85	MG	A	2106	1/1	0.92	0.16	30,30,30,30	0
85	MG	1	3744	1/1	0.92	0.26	43,43,43,43	0
84	OHX	A	1986	7/7	0.92	0.11	215,218,220,222	0
84	OHX	1	3542	7/7	0.92	0.13	156,157,158,158	0
84	OHX	AR	3623	7/7	0.92	0.11	186,187,188,188	0
85	MG	1	3914	1/1	0.92	0.27	31,31,31,31	0
85	MG	1	3915	1/1	0.92	0.25	19,19,19,19	0
85	MG	A	2113	1/1	0.92	0.07	35,35,35,35	0
85	MG	1	4120	1/1	0.92	0.12	46,46,46,46	0
85	MG	AR	4027	1/1	0.92	0.14	33,33,33,33	0
85	MG	AR	4028	1/1	0.92	0.13	44,44,44,44	0
85	MG	1	3917	1/1	0.92	0.27	18,18,18,18	0
85	MG	1	4129	1/1	0.92	0.11	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	AR	3495	7/7	0.92	0.12	163,165,166,166	0
85	MG	AR	4041	1/1	0.92	0.12	47,47,47,47	0
84	OHX	AR	3625	7/7	0.92	0.08	216,216,218,219	0
85	MG	6	2161	1/1	0.92	0.07	51,51,51,51	0
85	MG	AR	4049	1/1	0.92	0.12	74,74,74,74	0
85	MG	A	2126	1/1	0.92	0.09	48,48,48,48	0
84	OHX	AR	3520	7/7	0.92	0.13	175,175,176,176	0
84	OHX	1	3607	7/7	0.92	0.15	190,192,193,193	0
85	MG	1	3757	1/1	0.92	0.17	46,46,46,46	0
85	MG	6	2165	1/1	0.92	0.16	45,45,45,45	0
85	MG	6	2166	1/1	0.92	0.10	36,36,36,36	0
84	OHX	1	3636	7/7	0.92	0.14	170,171,172,172	0
84	OHX	1	3637	7/7	0.92	0.13	180,181,181,181	0
85	MG	6	2171	1/1	0.92	0.10	34,34,34,34	0
84	OHX	AR	3543	7/7	0.92	0.15	181,181,182,182	0
85	MG	1	3937	1/1	0.92	0.32	58,58,58,58	0
85	MG	1	3939	1/1	0.92	0.07	29,29,29,29	0
85	MG	1	4162	1/1	0.92	0.27	118,118,118,118	0
84	OHX	AR	3545	7/7	0.92	0.12	181,182,182,183	0
85	MG	1	3946	1/1	0.92	0.15	68,68,68,68	0
84	OHX	AR	3690	7/7	0.92	0.10	179,179,180,181	0
85	MG	1	4171	1/1	0.92	0.04	26,26,26,26	0
84	OHX	A	2004	7/7	0.92	0.10	192,194,196,196	0
85	MG	1	4174	1/1	0.92	0.22	54,54,54,54	0
85	MG	1	3954	1/1	0.92	0.13	45,45,45,45	0
85	MG	AR	4086	1/1	0.92	0.12	28,28,28,28	0
84	OHX	6	1964	7/7	0.92	0.12	175,175,177,177	0
85	MG	6	2198	1/1	0.92	0.16	53,53,53,53	0
84	OHX	AR	3558	7/7	0.92	0.17	159,160,160,160	0
84	OHX	6	1971	7/7	0.92	0.11	177,178,179,180	0
85	MG	1	3782	1/1	0.92	0.25	44,44,44,44	0
84	OHX	AR	3566	7/7	0.92	0.09	205,206,207,207	0
85	MG	c6	201	1/1	0.92	0.23	67,67,67,67	0
85	MG	1	4184	1/1	0.92	0.10	55,55,55,55	0
85	MG	1	4185	1/1	0.92	0.17	48,48,48,48	0
85	MG	AR	4101	1/1	0.92	0.12	48,48,48,48	0
85	MG	AR	4102	1/1	0.92	0.14	24,24,24,24	0
85	MG	1	4189	1/1	0.92	0.21	48,48,48,48	0
85	MG	AR	3766	1/1	0.93	0.18	21,21,21,21	0
84	OHX	1	3673	7/7	0.93	0.11	192,193,194,194	0
85	MG	AR	4115	1/1	0.93	0.15	64,64,64,64	0
85	MG	1	4213	1/1	0.93	0.09	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4214	1/1	0.93	0.11	50,50,50,50	0
85	MG	1	3984	1/1	0.93	0.17	33,33,33,33	0
85	MG	1	3985	1/1	0.93	0.12	22,22,22,22	0
85	MG	AR	3787	1/1	0.93	0.09	31,31,31,31	0
85	MG	1	3986	1/1	0.93	0.22	30,30,30,30	0
85	MG	1	3805	1/1	0.93	0.15	60,60,60,60	0
84	OHX	1	3528	7/7	0.93	0.14	169,170,171,171	0
84	OHX	1	3550	7/7	0.93	0.10	196,197,198,199	0
85	MG	AR	3801	1/1	0.93	0.24	30,30,30,30	0
85	MG	4	217	1/1	0.93	0.22	44,44,44,44	0
85	MG	4	224	1/1	0.93	0.06	51,51,51,51	0
85	MG	AR	4142	1/1	0.93	0.15	55,55,55,55	0
85	MG	AR	4143	1/1	0.93	0.18	38,38,38,38	0
85	MG	1	3992	1/1	0.93	0.16	53,53,53,53	0
84	OHX	A	2010	7/7	0.93	0.10	192,195,197,197	0
84	OHX	AR	3662	7/7	0.93	0.17	168,169,169,170	0
85	MG	AR	4153	1/1	0.93	0.13	52,52,52,52	0
84	OHX	AR	3586	7/7	0.93	0.09	182,184,185,185	0
85	MG	1	3814	1/1	0.93	0.20	39,39,39,39	0
85	MG	AR	4159	1/1	0.93	0.06	64,64,64,64	0
85	MG	AR	4162	1/1	0.93	0.10	54,54,54,54	0
85	MG	1	3816	1/1	0.93	0.27	28,28,28,28	0
85	MG	AR	4166	1/1	0.93	0.10	58,58,58,58	0
84	OHX	1	3531	7/7	0.93	0.15	179,180,181,181	0
85	MG	AR	3815	1/1	0.93	0.08	75,75,75,75	0
84	OHX	AR	3588	7/7	0.93	0.12	176,177,178,178	0
85	MG	AR	4173	1/1	0.93	0.15	38,38,38,38	0
84	OHX	1	3604	7/7	0.93	0.09	204,205,206,206	0
84	OHX	1	3577	7/7	0.93	0.11	177,178,179,179	0
84	OHX	AR	3593	7/7	0.93	0.13	173,174,174,174	0
85	MG	1	4023	1/1	0.93	0.16	44,44,44,44	0
85	MG	x	205	1/1	0.93	0.25	20,20,20,20	0
85	MG	1	4025	1/1	0.93	0.15	34,34,34,34	0
85	MG	AR	4203	1/1	0.93	0.11	37,37,37,37	0
85	MG	AR	3834	1/1	0.93	0.09	30,30,30,30	0
85	MG	AR	3835	1/1	0.93	0.12	41,41,41,41	0
85	MG	z	203	1/1	0.93	0.19	45,45,45,45	0
85	MG	AR	3840	1/1	0.93	0.19	22,22,22,22	0
85	MG	AR	4216	1/1	0.93	0.10	67,67,67,67	0
85	MG	l2	202	1/1	0.93	0.10	48,48,48,48	0
84	OHX	1	3584	7/7	0.93	0.13	154,155,156,156	0
84	OHX	A	2020	7/7	0.93	0.12	188,191,192,192	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	4221	1/1	0.93	0.11	49,49,49,49	0
85	MG	1	3831	1/1	0.93	0.12	42,42,42,42	0
85	MG	1	4030	1/1	0.93	0.19	45,45,45,45	0
85	MG	AR	4225	1/1	0.93	0.19	23,23,23,23	0
85	MG	AR	4227	1/1	0.93	0.26	18,18,18,18	0
85	MG	AR	4228	1/1	0.93	0.23	12,12,12,12	0
85	MG	AR	4229	1/1	0.93	0.23	23,23,23,23	0
84	OHX	A	2021	7/7	0.93	0.11	176,177,179,179	0
85	MG	AR	4233	1/1	0.93	0.15	55,55,55,55	0
84	OHX	k	401	7/7	0.93	0.12	169,170,170,170	0
85	MG	AR	4242	1/1	0.93	0.23	56,56,56,56	0
85	MG	AR	3853	1/1	0.93	0.28	17,17,17,17	0
84	OHX	AS	209	7/7	0.93	0.14	175,176,177,177	0
85	MG	1	3839	1/1	0.93	0.34	7,7,7,7	0
84	OHX	1	3555	7/7	0.93	0.09	190,191,192,192	0
85	MG	AS	216	1/1	0.93	0.18	41,41,41,41	0
84	OHX	AT	206	7/7	0.93	0.13	155,155,156,156	0
84	OHX	AR	3600	7/7	0.93	0.11	172,173,173,174	0
85	MG	AR	3867	1/1	0.93	0.28	13,13,13,13	0
85	MG	AS	223	1/1	0.93	0.11	59,59,59,59	0
84	OHX	1	3588	7/7	0.93	0.13	168,169,170,170	0
84	OHX	1	3536	7/7	0.93	0.09	221,221,223,224	0
84	OHX	AR	3603	7/7	0.93	0.11	182,183,184,185	0
85	MG	6	2078	1/1	0.93	0.22	25,25,25,25	0
84	OHX	AR	3605	7/7	0.93	0.10	194,195,196,196	0
84	OHX	AR	3679	7/7	0.93	0.08	218,220,221,221	0
85	MG	AT	225	1/1	0.93	0.12	60,60,60,60	0
84	OHX	1	3684	7/7	0.93	0.10	170,171,172,173	0
84	OHX	AR	3608	7/7	0.93	0.10	186,187,188,188	0
85	MG	AT	229	1/1	0.93	0.11	30,30,30,30	0
84	OHX	1	3590	7/7	0.93	0.10	208,209,210,211	0
85	MG	1	4060	1/1	0.93	0.34	16,16,16,16	0
84	OHX	CG	301	7/7	0.93	0.09	191,193,193,195	0
85	MG	1	3870	1/1	0.93	0.24	11,11,11,11	0
85	MG	AR	3901	1/1	0.93	0.29	17,17,17,17	0
85	MG	6	2088	1/1	0.93	0.20	30,30,30,30	0
84	OHX	AR	3611	7/7	0.93	0.08	194,196,197,197	0
84	OHX	1	3611	7/7	0.93	0.09	184,185,185,186	0
85	MG	CQ	201	1/1	0.93	0.20	23,23,23,23	0
84	OHX	AR	3613	7/7	0.93	0.16	165,166,167,167	0
85	MG	1	4072	1/1	0.93	0.16	55,55,55,55	0
84	OHX	AR	3614	7/7	0.93	0.14	164,165,165,166	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	6	1941	7/7	0.93	0.14	158,159,160,161	0
85	MG	AR	3928	1/1	0.93	0.15	10,10,10,10	0
85	MG	DC	201	1/1	0.93	0.12	16,16,16,16	0
85	MG	1	4075	1/1	0.93	0.10	20,20,20,20	0
84	OHX	1	3591	7/7	0.93	0.12	185,186,187,188	0
85	MG	DG	202	1/1	0.93	0.14	21,21,21,21	0
84	OHX	AR	3689	7/7	0.93	0.09	195,197,198,198	0
85	MG	AR	3934	1/1	0.93	0.20	14,14,14,14	0
85	MG	DR	503	1/1	0.93	0.20	54,54,54,54	0
85	MG	sM	201	1/1	0.93	0.15	41,41,41,41	0
84	OHX	6	1960	7/7	0.93	0.14	155,157,157,158	0
85	MG	AR	3936	1/1	0.93	0.23	20,20,20,20	0
84	OHX	1	3539	7/7	0.93	0.13	169,169,170,170	0
85	MG	AR	3939	1/1	0.93	0.39	16,16,16,16	0
85	MG	1	3888	1/1	0.93	0.10	21,21,21,21	0
85	MG	A	2053	1/1	0.93	0.23	39,39,39,39	0
84	OHX	M	201	7/7	0.93	0.10	202,204,205,206	0
84	OHX	A	1930	7/7	0.93	0.13	164,165,166,167	0
85	MG	AR	3951	1/1	0.93	0.14	26,26,26,26	0
84	OHX	A	1932	7/7	0.93	0.11	178,180,182,182	0
85	MG	1	3893	1/1	0.93	0.26	38,38,38,38	0
85	MG	A	2061	1/1	0.93	0.13	27,27,27,27	0
84	OHX	s8	301	7/7	0.93	0.09	214,216,216,218	0
84	OHX	1	3662	7/7	0.93	0.11	178,179,180,180	0
84	OHX	6	1966	7/7	0.93	0.13	164,165,166,167	0
84	OHX	AR	3477	7/7	0.93	0.18	119,119,119,120	0
84	OHX	1	3614	7/7	0.93	0.08	199,200,201,203	0
85	MG	AR	3962	1/1	0.93	0.11	43,43,43,43	0
84	OHX	sR	401	7/7	0.93	0.09	215,216,219,219	0
84	OHX	1	3594	7/7	0.93	0.14	150,150,151,151	0
85	MG	1	3735	1/1	0.93	0.13	39,39,39,39	0
84	OHX	AR	3626	7/7	0.93	0.09	204,205,205,205	0
85	MG	6	2130	1/1	0.93	0.11	42,42,42,42	0
84	OHX	AR	3627	7/7	0.93	0.11	173,173,174,174	0
85	MG	1	4112	1/1	0.93	0.09	41,41,41,41	0
85	MG	1	3743	1/1	0.93	0.19	23,23,23,23	0
85	MG	6	2138	1/1	0.93	0.19	49,49,49,49	0
85	MG	AR	3979	1/1	0.93	0.12	45,45,45,45	0
85	MG	AR	3980	1/1	0.93	0.16	32,32,32,32	0
85	MG	1	4115	1/1	0.93	0.11	97,97,97,97	0
85	MG	AR	3984	1/1	0.93	0.13	49,49,49,49	0
85	MG	A	2082	1/1	0.93	0.17	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	3986	1/1	0.93	0.27	41,41,41,41	0
85	MG	6	2141	1/1	0.93	0.11	56,56,56,56	0
84	OHX	6	1973	7/7	0.93	0.13	161,162,163,163	0
84	OHX	1	3616	7/7	0.93	0.14	177,177,178,178	0
85	MG	1	4118	1/1	0.93	0.17	87,87,87,87	0
85	MG	1	3920	1/1	0.93	0.21	29,29,29,29	0
84	OHX	1	3521	7/7	0.93	0.13	144,145,147,147	0
85	MG	1	3925	1/1	0.93	0.21	15,15,15,15	0
85	MG	1	4128	1/1	0.93	0.08	27,27,27,27	0
84	OHX	AR	3535	7/7	0.93	0.13	157,157,158,158	0
85	MG	AR	4005	1/1	0.93	0.17	24,24,24,24	0
85	MG	AR	4014	1/1	0.93	0.19	32,32,32,32	0
85	MG	AR	4015	1/1	0.93	0.23	43,43,43,43	0
84	OHX	AR	3539	7/7	0.93	0.11	169,170,172,172	0
85	MG	A	2100	1/1	0.93	0.25	60,60,60,60	0
85	MG	A	2101	1/1	0.93	0.20	64,64,64,64	0
85	MG	AR	4018	1/1	0.93	0.16	40,40,40,40	0
84	OHX	AR	3540	7/7	0.93	0.13	151,152,153,154	0
85	MG	AR	4023	1/1	0.93	0.09	36,36,36,36	0
85	MG	1	3930	1/1	0.93	0.21	19,19,19,19	0
85	MG	AR	4025	1/1	0.93	0.18	40,40,40,40	0
84	OHX	1	3504	7/7	0.93	0.12	154,156,157,158	0
84	OHX	1	3644	7/7	0.93	0.12	170,171,173,173	0
85	MG	1	3754	1/1	0.93	0.31	38,38,38,38	0
85	MG	AR	4029	1/1	0.93	0.07	32,32,32,32	0
85	MG	1	4146	1/1	0.93	0.06	39,39,39,39	0
84	OHX	6	1983	7/7	0.93	0.12	169,169,170,170	0
84	OHX	AR	3555	7/7	0.93	0.13	148,149,149,150	0
85	MG	AR	4039	1/1	0.93	0.17	37,37,37,37	0
85	MG	AR	4040	1/1	0.93	0.14	27,27,27,27	0
85	MG	A	2116	1/1	0.93	0.12	49,49,49,49	0
85	MG	1	4155	1/1	0.93	0.23	66,66,66,66	0
85	MG	AR	4045	1/1	0.93	0.05	33,33,33,33	0
84	OHX	1	3700	7/7	0.93	0.17	161,162,163,163	0
85	MG	1	3947	1/1	0.93	0.13	34,34,34,34	0
85	MG	1	4161	1/1	0.93	0.11	37,37,37,37	0
85	MG	1	3760	1/1	0.93	0.38	26,26,26,26	0
85	MG	AR	4051	1/1	0.93	0.12	62,62,62,62	0
84	OHX	AR	3642	7/7	0.93	0.13	189,189,191,191	0
85	MG	1	3952	1/1	0.93	0.06	34,34,34,34	0
84	OHX	AR	3559	7/7	0.93	0.11	177,178,179,179	0
85	MG	AR	4058	1/1	0.93	0.14	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4170	1/1	0.93	0.07	33,33,33,33	0
84	OHX	AR	3561	7/7	0.93	0.10	171,171,172,172	0
84	OHX	6	1989	7/7	0.93	0.13	169,170,172,172	0
85	MG	6	2185	1/1	0.93	0.10	60,60,60,60	0
85	MG	6	2188	1/1	0.93	0.24	55,55,55,55	0
84	OHX	AR	3648	7/7	0.93	0.10	196,197,198,198	0
84	OHX	1	3548	7/7	0.93	0.10	179,180,181,181	0
85	MG	1	3778	1/1	0.93	0.11	20,20,20,20	0
85	MG	6	2192	1/1	0.93	0.16	54,54,54,54	0
85	MG	1	3964	1/1	0.93	0.13	51,51,51,51	0
84	OHX	1	3598	7/7	0.93	0.13	173,173,174,175	0
85	MG	6	2196	1/1	0.93	0.05	46,46,46,46	0
84	OHX	AR	3573	7/7	0.93	0.14	178,178,179,180	0
84	OHX	AR	3574	7/7	0.93	0.12	171,172,173,173	0
85	MG	9	201	1/1	0.93	0.15	33,33,33,33	0
85	MG	1	3785	1/1	0.93	0.20	21,21,21,21	0
85	MG	AB	203	1/1	0.93	0.08	37,37,37,37	0
85	MG	A	2150	1/1	0.93	0.06	52,52,52,52	0
84	OHX	AR	3653	7/7	0.93	0.15	178,178,179,179	0
85	MG	1	4186	1/1	0.93	0.19	51,51,51,51	0
85	MG	1	4188	1/1	0.93	0.16	34,34,34,34	0
85	MG	1	3972	1/1	0.93	0.22	31,31,31,31	0
85	MG	1	3973	1/1	0.93	0.18	33,33,33,33	0
84	OHX	6	1992	7/7	0.93	0.12	185,186,187,188	0
84	OHX	A	2001	7/7	0.93	0.12	185,188,189,189	0
85	MG	1	4195	1/1	0.93	0.21	52,52,52,52	0
84	OHX	1	3672	7/7	0.93	0.14	161,162,164,164	0
85	MG	d3	202	1/1	0.93	0.25	56,56,56,56	0
84	OHX	6	1995	7/7	0.93	0.10	171,173,174,175	0
85	MG	d6	101	1/1	0.93	0.20	37,37,37,37	0
85	MG	AR	4107	1/1	0.93	0.11	79,79,79,79	0
85	MG	1	3980	1/1	0.93	0.11	19,19,19,19	0
84	OHX	3	206	7/7	0.93	0.11	176,177,179,179	0
85	MG	1	3999	1/1	0.94	0.09	38,38,38,38	0
85	MG	1	3865	1/1	0.94	0.22	13,13,13,13	0
84	OHX	A	1998	7/7	0.94	0.09	213,217,219,219	0
85	MG	AR	4204	1/1	0.94	0.04	31,31,31,31	0
85	MG	AR	3910	1/1	0.94	0.19	17,17,17,17	0
85	MG	AR	4210	1/1	0.94	0.12	33,33,33,33	0
84	OHX	AT	217	7/7	0.94	0.10	184,185,185,186	0
85	MG	AR	4213	1/1	0.94	0.09	34,34,34,34	0
85	MG	AR	3912	1/1	0.94	0.25	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	3914	1/1	0.94	0.21	13,13,13,13	0
85	MG	6	2140	1/1	0.94	0.16	46,46,46,46	0
85	MG	AR	3920	1/1	0.94	0.14	19,19,19,19	0
85	MG	AR	3922	1/1	0.94	0.23	20,20,20,20	0
85	MG	AR	4219	1/1	0.94	0.15	47,47,47,47	0
84	OHX	1	3685	7/7	0.94	0.14	173,173,175,175	0
85	MG	6	2142	1/1	0.94	0.13	72,72,72,72	0
84	OHX	1	3491	7/7	0.94	0.15	138,138,139,139	0
85	MG	AR	3929	1/1	0.94	0.18	75,75,75,75	0
85	MG	6	2146	1/1	0.94	0.12	44,44,44,44	0
84	OHX	3	202	7/7	0.94	0.13	176,177,177,178	0
85	MG	1	3874	1/1	0.94	0.23	19,19,19,19	0
85	MG	1	4016	1/1	0.94	0.04	11,11,11,11	0
85	MG	1	3875	1/1	0.94	0.17	18,18,18,18	0
85	MG	1	3748	1/1	0.94	0.16	23,23,23,23	0
85	MG	AR	4234	1/1	0.94	0.17	17,17,17,17	0
84	OHX	1	3576	7/7	0.94	0.10	189,189,191,191	0
85	MG	1	4024	1/1	0.94	0.14	15,15,15,15	0
84	OHX	1	3690	7/7	0.94	0.10	174,175,176,176	0
84	OHX	1	3512	7/7	0.94	0.10	170,172,172,173	0
85	MG	AS	212	1/1	0.94	0.16	13,13,13,13	0
84	OHX	6	1956	7/7	0.94	0.12	192,194,195,196	0
85	MG	AR	3949	1/1	0.94	0.17	19,19,19,19	0
85	MG	1	3883	1/1	0.94	0.26	17,17,17,17	0
85	MG	1	4200	1/1	0.94	0.24	18,18,18,18	0
84	OHX	6	1994	7/7	0.94	0.11	168,169,171,171	0
84	OHX	AR	3619	7/7	0.94	0.12	169,169,170,170	0
84	OHX	6	1958	7/7	0.94	0.12	153,153,155,156	0
84	OHX	1	3631	7/7	0.94	0.09	198,199,199,199	0
85	MG	1	4210	1/1	0.94	0.14	32,32,32,32	0
84	OHX	AR	3667	7/7	0.94	0.07	207,209,210,210	0
84	OHX	AR	3575	7/7	0.94	0.10	156,158,159,159	0
85	MG	1	3765	1/1	0.94	0.11	41,41,41,41	0
85	MG	1	4217	1/1	0.94	0.18	18,18,18,18	0
85	MG	1	4220	1/1	0.94	0.17	25,25,25,25	0
85	MG	1	3767	1/1	0.94	0.11	34,34,34,34	0
85	MG	1	3768	1/1	0.94	0.21	24,24,24,24	0
85	MG	3	214	1/1	0.94	0.26	12,12,12,12	0
84	OHX	AR	3576	7/7	0.94	0.11	168,169,169,170	0
85	MG	AR	3971	1/1	0.94	0.08	38,38,38,38	0
84	OHX	4	201	7/7	0.94	0.12	143,143,144,144	0
84	OHX	4	205	7/7	0.94	0.09	172,173,174,174	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	A	2018	7/7	0.94	0.08	214,215,216,217	0
85	MG	3	220	1/1	0.94	0.09	31,31,31,31	0
84	OHX	A	1927	7/7	0.94	0.12	158,160,162,162	0
85	MG	4	223	1/1	0.94	0.13	44,44,44,44	0
85	MG	1	4055	1/1	0.94	0.16	33,33,33,33	0
85	MG	4	225	1/1	0.94	0.12	43,43,43,43	0
85	MG	1	3777	1/1	0.94	0.07	40,40,40,40	0
85	MG	CR	201	1/1	0.94	0.27	14,14,14,14	0
85	MG	4	227	1/1	0.94	0.07	42,42,42,42	0
85	MG	CR	204	1/1	0.94	0.12	46,46,46,46	0
85	MG	1	3911	1/1	0.94	0.19	20,20,20,20	0
85	MG	1	3912	1/1	0.94	0.28	30,30,30,30	0
85	MG	4	231	1/1	0.94	0.10	30,30,30,30	0
85	MG	DC	204	1/1	0.94	0.12	45,45,45,45	0
84	OHX	1	3580	7/7	0.94	0.11	162,164,164,165	0
85	MG	AR	4000	1/1	0.94	0.21	30,30,30,30	0
85	MG	1	3779	1/1	0.94	0.09	29,29,29,29	0
85	MG	AF	202	1/1	0.94	0.13	32,32,32,32	0
84	OHX	6	1970	7/7	0.94	0.11	178,179,180,180	0
85	MG	AR	4009	1/1	0.94	0.19	25,25,25,25	0
85	MG	AR	4013	1/1	0.94	0.11	38,38,38,38	0
84	OHX	1	3581	7/7	0.94	0.14	153,153,154,154	0
85	MG	i	201	1/1	0.94	0.15	57,57,57,57	0
84	OHX	1	3552	7/7	0.94	0.12	173,174,175,175	0
85	MG	A	2049	1/1	0.94	0.14	35,35,35,35	0
85	MG	AR	3743	1/1	0.94	0.08	41,41,41,41	0
85	MG	AR	3744	1/1	0.94	0.23	20,20,20,20	0
85	MG	A	2052	1/1	0.94	0.22	27,27,27,27	0
85	MG	AR	4021	1/1	0.94	0.09	36,36,36,36	0
85	MG	AR	4022	1/1	0.94	0.09	41,41,41,41	0
85	MG	1	3784	1/1	0.94	0.13	30,30,30,30	0
84	OHX	AR	3494	7/7	0.94	0.13	144,145,146,146	0
85	MG	AR	3749	1/1	0.94	0.24	19,19,19,19	0
84	OHX	1	3517	7/7	0.94	0.15	141,142,143,143	0
85	MG	AR	3752	1/1	0.94	0.20	16,16,16,16	0
84	OHX	A	1945	7/7	0.94	0.08	201,203,204,205	0
85	MG	AR	3755	1/1	0.94	0.18	34,34,34,34	0
84	OHX	AR	3500	7/7	0.94	0.11	136,138,139,140	0
85	MG	x	206	1/1	0.94	0.14	32,32,32,32	0
85	MG	1	3792	1/1	0.94	0.15	16,16,16,16	0
84	OHX	A	1947	7/7	0.94	0.12	162,164,165,165	0
85	MG	1	3798	1/1	0.94	0.19	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	3765	1/1	0.94	0.20	23,23,23,23	0
85	MG	AR	4043	1/1	0.94	0.08	48,48,48,48	0
84	OHX	6	1974	7/7	0.94	0.13	176,176,178,178	0
85	MG	6	2059	1/1	0.94	0.19	40,40,40,40	0
84	OHX	AR	3523	7/7	0.94	0.12	175,176,176,177	0
84	OHX	A	1956	7/7	0.94	0.12	171,173,174,175	0
85	MG	AR	3778	1/1	0.94	0.23	42,42,42,42	0
85	MG	1	3938	1/1	0.94	0.08	41,41,41,41	0
84	OHX	AR	3524	7/7	0.94	0.12	152,153,154,155	0
84	OHX	AR	3592	7/7	0.94	0.14	151,152,152,153	0
85	MG	1	3807	1/1	0.94	0.11	37,37,37,37	0
84	OHX	1	3646	7/7	0.94	0.09	182,183,184,185	0
84	OHX	A	1962	7/7	0.94	0.12	175,176,177,178	0
85	MG	AR	4060	1/1	0.94	0.10	56,56,56,56	0
85	MG	AR	3794	1/1	0.94	0.13	19,19,19,19	0
85	MG	6	2070	1/1	0.94	0.27	17,17,17,17	0
85	MG	AR	3799	1/1	0.94	0.11	83,83,83,83	0
84	OHX	AR	3594	7/7	0.94	0.14	169,170,171,171	0
84	OHX	A	1967	7/7	0.94	0.11	167,168,169,170	0
85	MG	6	2073	1/1	0.94	0.27	57,57,57,57	0
85	MG	A	2090	1/1	0.94	0.16	46,46,46,46	0
84	OHX	6	2009	7/7	0.94	0.14	181,181,183,183	0
84	OHX	A	1970	7/7	0.94	0.15	178,180,182,182	0
85	MG	6	2076	1/1	0.94	0.22	18,18,18,18	0
85	MG	1	3956	1/1	0.94	0.16	15,15,15,15	0
84	OHX	AR	3643	7/7	0.94	0.10	157,158,159,160	0
85	MG	A	2097	1/1	0.94	0.23	55,55,55,55	0
85	MG	AR	3810	1/1	0.94	0.23	28,28,28,28	0
85	MG	AR	3811	1/1	0.94	0.14	25,25,25,25	0
85	MG	AR	4079	1/1	0.94	0.18	36,36,36,36	0
85	MG	AR	4083	1/1	0.94	0.24	23,23,23,23	0
84	OHX	A	1973	7/7	0.94	0.10	201,204,206,208	0
84	OHX	1	3573	7/7	0.94	0.10	196,196,197,197	0
85	MG	1	3961	1/1	0.94	0.14	26,26,26,26	0
85	MG	1	3822	1/1	0.94	0.17	22,22,22,22	0
84	OHX	AR	3645	7/7	0.94	0.13	174,175,176,176	0
85	MG	6	2084	1/1	0.94	0.10	35,35,35,35	0
85	MG	AR	3821	1/1	0.94	0.20	26,26,26,26	0
85	MG	AR	3823	1/1	0.94	0.19	15,15,15,15	0
85	MG	1	3826	1/1	0.94	0.16	44,44,44,44	0
84	OHX	6	1978	7/7	0.94	0.11	176,178,180,181	0
84	OHX	AR	3691	7/7	0.94	0.13	170,171,172,172	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3969	1/1	0.94	0.15	45,45,45,45	0
85	MG	1	4126	1/1	0.94	0.17	30,30,30,30	0
85	MG	1	4127	1/1	0.94	0.09	58,58,58,58	0
85	MG	AR	3836	1/1	0.94	0.24	15,15,15,15	0
85	MG	6	2092	1/1	0.94	0.13	45,45,45,45	0
84	OHX	A	1981	7/7	0.94	0.08	231,234,235,236	0
85	MG	6	2095	1/1	0.94	0.23	32,32,32,32	0
84	OHX	A	1982	7/7	0.94	0.10	164,166,167,167	0
85	MG	1	3832	1/1	0.94	0.23	13,13,13,13	0
85	MG	AR	3846	1/1	0.94	0.30	17,17,17,17	0
85	MG	1	4131	1/1	0.94	0.06	38,38,38,38	0
84	OHX	e	101	7/7	0.94	0.08	205,208,210,210	0
84	OHX	AR	3538	7/7	0.94	0.10	184,185,186,186	0
85	MG	1	4135	1/1	0.94	0.14	64,64,64,64	0
84	OHX	6	1979	7/7	0.94	0.12	165,165,166,167	0
85	MG	1	4138	1/1	0.94	0.14	37,37,37,37	0
85	MG	1	4139	1/1	0.94	0.05	29,29,29,29	0
84	OHX	1	3627	7/7	0.94	0.09	176,176,178,179	0
85	MG	AR	4131	1/1	0.94	0.27	59,59,59,59	0
85	MG	AR	4133	1/1	0.94	0.17	35,35,35,35	0
84	OHX	AR	3541	7/7	0.94	0.10	170,171,172,174	0
84	OHX	AR	3604	7/7	0.94	0.12	150,151,151,151	0
85	MG	AR	3866	1/1	0.94	0.18	20,20,20,20	0
84	OHX	AT	209	7/7	0.94	0.12	163,163,163,163	0
85	MG	1	3851	1/1	0.94	0.08	34,34,34,34	0
85	MG	1	3983	1/1	0.94	0.18	59,59,59,59	0
85	MG	AR	4151	1/1	0.94	0.08	30,30,30,30	0
84	OHX	6	1981	7/7	0.94	0.11	195,197,199,199	0
84	OHX	AT	212	7/7	0.94	0.12	160,160,161,161	0
85	MG	AR	3883	1/1	0.94	0.22	12,12,12,12	0
85	MG	AR	3884	1/1	0.94	0.20	27,27,27,27	0
85	MG	1	3854	1/1	0.94	0.19	13,13,13,13	0
85	MG	AR	4160	1/1	0.94	0.08	31,31,31,31	0
85	MG	AR	4161	1/1	0.94	0.12	56,56,56,56	0
84	OHX	AR	3544	7/7	0.94	0.11	177,178,179,179	0
84	OHX	1	3714	7/7	0.94	0.13	155,156,157,158	0
85	MG	D	301	1/1	0.94	0.22	42,42,42,42	0
85	MG	6	2127	1/1	0.94	0.16	52,52,52,52	0
85	MG	1	3739	1/1	0.94	0.22	15,15,15,15	0
85	MG	1	3991	1/1	0.94	0.11	30,30,30,30	0
85	MG	AR	3893	1/1	0.94	0.17	40,40,40,40	0
85	MG	1	3741	1/1	0.94	0.15	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	3897	1/1	0.94	0.18	18,18,18,18	0
85	MG	AR	3899	1/1	0.94	0.18	46,46,46,46	0
85	MG	6	2131	1/1	0.94	0.16	32,32,32,32	0
85	MG	1	3864	1/1	0.94	0.24	33,33,33,33	0
85	MG	AR	4186	1/1	0.94	0.16	33,33,33,33	0
87	ZN	AP	501	1/1	0.94	0.15	115,115,115,115	0
85	MG	AR	4194	1/1	0.94	0.14	47,47,47,47	0
85	MG	AR	4196	1/1	0.94	0.15	39,39,39,39	0
84	OHX	1	3540	7/7	0.95	0.14	145,146,146,148	0
85	MG	AR	4163	1/1	0.95	0.12	30,30,30,30	0
84	OHX	AR	3572	7/7	0.95	0.10	174,175,176,176	0
85	MG	AR	3882	1/1	0.95	0.24	11,11,11,11	0
84	OHX	1	3569	7/7	0.95	0.11	166,166,167,168	0
85	MG	AR	4168	1/1	0.95	0.08	45,45,45,45	0
85	MG	1	3791	1/1	0.95	0.17	21,21,21,21	0
85	MG	AR	3885	1/1	0.95	0.28	38,38,38,38	0
84	OHX	1	3466	7/7	0.95	0.15	120,121,122,123	0
85	MG	AR	4175	1/1	0.95	0.07	27,27,27,27	0
85	MG	AR	4177	1/1	0.95	0.23	18,18,18,18	0
84	OHX	1	3572	7/7	0.95	0.12	168,168,169,170	0
84	OHX	3	204	7/7	0.95	0.09	163,164,165,166	0
85	MG	AR	4182	1/1	0.95	0.17	48,48,48,48	0
85	MG	1	4133	1/1	0.95	0.14	28,28,28,28	0
84	OHX	A	2009	7/7	0.95	0.10	191,192,194,195	0
85	MG	1	3802	1/1	0.95	0.09	32,32,32,32	0
85	MG	AR	4192	1/1	0.95	0.10	44,44,44,44	0
84	OHX	1	3543	7/7	0.95	0.13	166,166,167,167	0
85	MG	AR	3894	1/1	0.95	0.23	24,24,24,24	0
84	OHX	1	3484	7/7	0.95	0.13	131,131,133,133	0
84	OHX	1	3545	7/7	0.95	0.12	156,157,158,159	0
85	MG	AR	4202	1/1	0.95	0.08	72,72,72,72	0
85	MG	1	4140	1/1	0.95	0.10	49,49,49,49	0
85	MG	1	4141	1/1	0.95	0.14	36,36,36,36	0
85	MG	AR	4206	1/1	0.95	0.11	31,31,31,31	0
85	MG	AR	4208	1/1	0.95	0.08	62,62,62,62	0
84	OHX	1	3546	7/7	0.95	0.09	147,148,149,150	0
84	OHX	1	3547	7/7	0.95	0.14	168,169,170,170	0
84	OHX	AT	207	7/7	0.95	0.11	162,163,164,164	0
85	MG	AR	4212	1/1	0.95	0.14	48,48,48,48	0
85	MG	AR	3906	1/1	0.95	0.24	15,15,15,15	0
85	MG	6	2135	1/1	0.95	0.14	38,38,38,38	0
84	OHX	AT	208	7/7	0.95	0.10	154,154,155,155	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	4	204	7/7	0.95	0.11	160,160,161,161	0
84	OHX	6	1984	7/7	0.95	0.09	198,200,201,201	0
84	OHX	6	1986	7/7	0.95	0.10	157,157,159,159	0
84	OHX	AT	214	7/7	0.95	0.10	173,173,174,174	0
85	MG	AR	3917	1/1	0.95	0.20	29,29,29,29	0
85	MG	AR	3919	1/1	0.95	0.31	11,11,11,11	0
84	OHX	6	1987	7/7	0.95	0.11	179,179,180,181	0
84	OHX	1	3516	7/7	0.95	0.24	131,132,133,133	0
85	MG	1	3819	1/1	0.95	0.20	25,25,25,25	0
85	MG	AR	3925	1/1	0.95	0.25	14,14,14,14	0
85	MG	1	4165	1/1	0.95	0.11	38,38,38,38	0
84	OHX	1	3706	7/7	0.95	0.09	144,145,146,146	0
84	OHX	AR	3590	7/7	0.95	0.13	172,173,173,173	0
84	OHX	4	207	7/7	0.95	0.10	174,175,175,176	0
85	MG	AR	3931	1/1	0.95	0.14	13,13,13,13	0
85	MG	1	3825	1/1	0.95	0.15	42,42,42,42	0
84	OHX	1	3485	7/7	0.95	0.11	151,152,153,153	0
84	OHX	1	3488	7/7	0.95	0.14	140,140,141,141	0
84	OHX	1	3551	7/7	0.95	0.10	191,192,192,193	0
85	MG	1	4178	1/1	0.95	0.16	42,42,42,42	0
84	OHX	AR	3596	7/7	0.95	0.09	208,209,210,211	0
85	MG	1	3987	1/1	0.95	0.13	32,32,32,32	0
85	MG	AR	3940	1/1	0.95	0.11	34,34,34,34	0
85	MG	AS	218	1/1	0.95	0.07	52,52,52,52	0
84	OHX	1	3677	7/7	0.95	0.14	170,171,171,171	0
84	OHX	1	3432	7/7	0.95	0.17	131,131,132,132	0
84	OHX	k	402	7/7	0.95	0.10	156,157,158,158	0
84	OHX	1	3524	7/7	0.95	0.10	164,164,166,167	0
85	MG	1	3835	1/1	0.95	0.18	19,19,19,19	0
85	MG	1	3993	1/1	0.95	0.13	27,27,27,27	0
85	MG	1	3997	1/1	0.95	0.20	37,37,37,37	0
84	OHX	1	3554	7/7	0.95	0.10	167,168,169,169	0
85	MG	6	2169	1/1	0.95	0.07	39,39,39,39	0
85	MG	AT	222	1/1	0.95	0.16	35,35,35,35	0
84	OHX	6	1999	7/7	0.95	0.08	177,179,179,181	0
85	MG	AT	224	1/1	0.95	0.18	35,35,35,35	0
85	MG	1	4000	1/1	0.95	0.18	36,36,36,36	0
84	OHX	1	3500	7/7	0.95	0.10	156,157,159,159	0
85	MG	AR	3960	1/1	0.95	0.06	17,17,17,17	0
85	MG	AT	228	1/1	0.95	0.11	34,34,34,34	0
84	OHX	CP	501	7/7	0.95	0.11	177,178,178,178	0
85	MG	1	4198	1/1	0.95	0.17	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	CD	301	1/1	0.95	0.19	28,28,28,28	0
85	MG	1	3843	1/1	0.95	0.25	11,11,11,11	0
85	MG	1	3845	1/1	0.95	0.32	14,14,14,14	0
85	MG	1	3846	1/1	0.95	0.25	16,16,16,16	0
84	OHX	1	3461	7/7	0.95	0.15	136,137,137,138	0
84	OHX	DH	201	7/7	0.95	0.13	155,156,157,157	0
85	MG	1	4014	1/1	0.95	0.13	46,46,46,46	0
85	MG	1	4015	1/1	0.95	0.09	38,38,38,38	0
84	OHX	1	3652	7/7	0.95	0.10	173,174,174,174	0
85	MG	CQ	202	1/1	0.95	0.08	26,26,26,26	0
85	MG	AR	3974	1/1	0.95	0.16	28,28,28,28	0
85	MG	AR	3975	1/1	0.95	0.19	31,31,31,31	0
84	OHX	1	3534	7/7	0.95	0.13	148,149,149,150	0
85	MG	CR	202	1/1	0.95	0.11	20,20,20,20	0
85	MG	1	4019	1/1	0.95	0.08	31,31,31,31	0
85	MG	6	2194	1/1	0.95	0.23	34,34,34,34	0
84	OHX	AR	3607	7/7	0.95	0.11	166,166,167,167	0
84	OHX	A	1929	7/7	0.95	0.11	157,159,160,160	0
85	MG	DA	201	1/1	0.95	0.13	29,29,29,29	0
85	MG	3	209	1/1	0.95	0.17	46,46,46,46	0
85	MG	DC	202	1/1	0.95	0.17	28,28,28,28	0
85	MG	DC	203	1/1	0.95	0.12	35,35,35,35	0
84	OHX	AR	3484	7/7	0.95	0.18	133,134,135,135	0
85	MG	3	211	1/1	0.95	0.15	33,33,33,33	0
85	MG	3	213	1/1	0.95	0.14	23,23,23,23	0
85	MG	DF	201	1/1	0.95	0.12	30,30,30,30	0
84	OHX	6	1914	7/7	0.95	0.12	119,120,121,123	0
85	MG	DH	202	1/1	0.95	0.20	30,30,30,30	0
85	MG	AF	201	1/1	0.95	0.11	27,27,27,27	0
85	MG	3	215	1/1	0.95	0.15	39,39,39,39	0
84	OHX	6	2005	7/7	0.95	0.12	152,153,155,155	0
85	MG	AK	104	1/1	0.95	0.14	44,44,44,44	0
84	OHX	6	1927	7/7	0.95	0.21	128,128,130,130	0
84	OHX	A	1940	7/7	0.95	0.10	174,175,177,178	0
85	MG	AR	3740	1/1	0.95	0.12	46,46,46,46	0
84	OHX	h	401	7/7	0.95	0.08	203,206,208,210	0
85	MG	AR	4012	1/1	0.95	0.05	50,50,50,50	0
84	OHX	AR	3515	7/7	0.95	0.10	159,160,161,162	0
85	MG	4	215	1/1	0.95	0.15	23,23,23,23	0
84	OHX	AR	3516	7/7	0.95	0.10	174,176,178,178	0
85	MG	4	221	1/1	0.95	0.10	52,52,52,52	0
84	OHX	AR	3518	7/7	0.95	0.10	161,162,163,163	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	MG	AR	4019	1/1	0.95	0.08	29,29,29,29	0
84	OHX	6	1928	7/7	0.95	0.12	150,151,152,152	0
85	MG	A	2058	1/1	0.95	0.18	27,27,27,27	0
84	OHX	AR	3617	7/7	0.95	0.14	158,158,159,159	0
85	MG	1	4036	1/1	0.95	0.19	35,35,35,35	0
85	MG	1	4037	1/1	0.95	0.11	61,61,61,61	0
84	OHX	A	1950	7/7	0.95	0.10	168,169,170,171	0
85	MG	AR	3758	1/1	0.95	0.12	81,81,81,81	0
84	OHX	AR	3698	7/7	0.95	0.10	166,167,167,168	0
84	OHX	AR	3522	7/7	0.95	0.13	134,135,136,136	0
85	MG	4	232	1/1	0.95	0.20	43,43,43,43	0
84	OHX	A	1954	7/7	0.95	0.10	172,174,175,175	0
85	MG	AR	4030	1/1	0.95	0.24	37,37,37,37	0
84	OHX	6	1931	7/7	0.95	0.13	151,152,153,153	0
85	MG	1	4046	1/1	0.95	0.06	54,54,54,54	0
85	MG	AR	3768	1/1	0.95	0.19	23,23,23,23	0
84	OHX	6	1932	7/7	0.95	0.15	129,129,131,131	0
85	MG	AR	3770	1/1	0.95	0.12	36,36,36,36	0
85	MG	1	3882	1/1	0.95	0.22	11,11,11,11	0
85	MG	1	4051	1/1	0.95	0.09	63,63,63,63	0
85	MG	AR	4044	1/1	0.95	0.22	51,51,51,51	0
85	MG	AR	3775	1/1	0.95	0.13	16,16,16,16	0
84	OHX	6	1936	7/7	0.95	0.12	145,146,146,146	0
85	MG	AR	3780	1/1	0.95	0.21	20,20,20,20	0
84	OHX	6	1940	7/7	0.95	0.14	149,151,152,153	0
85	MG	x	203	1/1	0.95	0.25	64,64,64,64	0
85	MG	AR	3785	1/1	0.95	0.18	29,29,29,29	0
85	MG	AR	4052	1/1	0.95	0.11	28,28,28,28	0
84	OHX	1	3624	7/7	0.95	0.11	171,172,173,174	0
84	OHX	A	1964	7/7	0.95	0.11	168,169,170,170	0
84	OHX	A	1965	7/7	0.95	0.10	167,169,170,171	0
85	MG	AR	3790	1/1	0.95	0.17	17,17,17,17	0
84	OHX	AR	3533	7/7	0.95	0.14	166,166,167,167	0
85	MG	AR	3793	1/1	0.95	0.22	23,23,23,23	0
84	OHX	AR	3534	7/7	0.95	0.11	162,163,164,165	0
85	MG	AR	3795	1/1	0.95	0.09	22,22,22,22	0
84	OHX	6	1947	7/7	0.95	0.12	142,144,145,145	0
84	OHX	6	1950	7/7	0.95	0.12	171,171,173,174	0
85	MG	AR	3800	1/1	0.95	0.22	22,22,22,22	0
85	MG	1	4069	1/1	0.95	0.17	39,39,39,39	0
85	MG	1	3894	1/1	0.95	0.23	26,26,26,26	0
84	OHX	6	2017	7/7	0.95	0.12	158,159,160,161	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	6	1952	7/7	0.95	0.09	183,184,185,186	0
85	MG	AR	4071	1/1	0.95	0.09	32,32,32,32	0
84	OHX	AR	3631	7/7	0.95	0.10	153,155,155,155	0
85	MG	1	3901	1/1	0.95	0.22	12,12,12,12	0
84	OHX	6	1953	7/7	0.95	0.12	154,155,157,158	0
85	MG	1	3905	1/1	0.95	0.22	14,14,14,14	0
84	OHX	1	3535	7/7	0.95	0.11	196,198,199,200	0
85	MG	AR	4081	1/1	0.95	0.19	52,52,52,52	0
84	OHX	1	3561	7/7	0.95	0.08	184,184,185,186	0
85	MG	1	4080	1/1	0.95	0.17	55,55,55,55	0
84	OHX	1	3688	7/7	0.95	0.10	220,221,221,222	0
85	MG	1	4082	1/1	0.95	0.12	22,22,22,22	0
85	MG	AR	4088	1/1	0.95	0.11	50,50,50,50	0
85	MG	AR	4090	1/1	0.95	0.07	62,62,62,62	0
85	MG	1	4084	1/1	0.95	0.08	44,44,44,44	0
85	MG	1	4085	1/1	0.95	0.07	43,43,43,43	0
85	MG	1	4088	1/1	0.95	0.10	28,28,28,28	0
84	OHX	AR	3548	7/7	0.95	0.10	165,166,166,166	0
85	MG	1	3763	1/1	0.95	0.16	34,34,34,34	0
85	MG	1	3764	1/1	0.95	0.31	38,38,38,38	0
85	MG	AR	4099	1/1	0.95	0.06	44,44,44,44	0
85	MG	1	4093	1/1	0.95	0.14	16,16,16,16	0
84	OHX	AR	3549	7/7	0.95	0.14	156,157,158,158	0
85	MG	AR	3829	1/1	0.95	0.21	16,16,16,16	0
85	MG	1	4096	1/1	0.95	0.16	53,53,53,53	0
85	MG	1	3766	1/1	0.95	0.16	23,23,23,23	0
84	OHX	AR	3550	7/7	0.95	0.10	164,164,165,165	0
84	OHX	AR	3551	7/7	0.95	0.11	161,162,163,164	0
85	MG	AR	4110	1/1	0.95	0.15	45,45,45,45	0
84	OHX	A	1987	7/7	0.95	0.11	172,173,174,175	0
84	OHX	1	3562	7/7	0.95	0.07	200,200,201,202	0
85	MG	1	3772	1/1	0.95	0.25	32,32,32,32	0
84	OHX	6	1961	7/7	0.95	0.12	152,153,154,155	0
84	OHX	1	3599	7/7	0.95	0.08	190,191,192,193	0
84	OHX	1	3506	7/7	0.95	0.12	159,160,161,162	0
85	MG	AR	4120	1/1	0.95	0.07	32,32,32,32	0
85	MG	1	3776	1/1	0.95	0.16	29,29,29,29	0
84	OHX	A	1994	7/7	0.95	0.09	200,203,204,205	0
85	MG	AR	4124	1/1	0.95	0.22	54,54,54,54	0
84	OHX	AR	3560	7/7	0.95	0.10	173,174,175,175	0
84	OHX	1	3565	7/7	0.95	0.10	168,169,170,170	0
85	MG	1	3780	1/1	0.95	0.19	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	3855	1/1	0.95	0.11	37,37,37,37	0
85	MG	6	2099	1/1	0.95	0.10	19,19,19,19	0
84	OHX	AR	3563	7/7	0.95	0.13	173,173,174,174	0
85	MG	6	2101	1/1	0.95	0.16	37,37,37,37	0
85	MG	AR	4134	1/1	0.95	0.16	10,10,10,10	0
85	MG	AR	3859	1/1	0.95	0.17	28,28,28,28	0
85	MG	AR	3860	1/1	0.95	0.24	6,6,6,6	0
84	OHX	1	3507	7/7	0.95	0.14	149,149,150,150	0
85	MG	6	2104	1/1	0.95	0.12	22,22,22,22	0
84	OHX	AR	3565	7/7	0.95	0.10	161,162,163,164	0
85	MG	s2	301	1/1	0.95	0.16	46,46,46,46	0
85	MG	AR	4146	1/1	0.95	0.15	37,37,37,37	0
84	OHX	1	3603	7/7	0.95	0.14	162,162,164,164	0
85	MG	AR	3868	1/1	0.95	0.16	33,33,33,33	0
85	MG	AR	3870	1/1	0.95	0.16	14,14,14,14	0
85	MG	d3	203	1/1	0.95	0.13	29,29,29,29	0
85	MG	AR	3871	1/1	0.95	0.22	20,20,20,20	0
85	MG	AR	3873	1/1	0.95	0.14	23,23,23,23	0
85	MG	AR	3874	1/1	0.95	0.21	18,18,18,18	0
86	7MB	1	4216	20/20	0.95	0.14	48,48,48,48	0
85	MG	1	4124	1/1	0.95	0.11	52,52,52,52	0
84	OHX	AR	3569	7/7	0.95	0.09	182,182,183,183	0
85	MG	AR	3878	1/1	0.95	0.17	12,12,12,12	0
84	OHX	AS	207	7/7	0.96	0.09	163,165,166,166	0
84	OHX	AR	3654	7/7	0.96	0.10	161,162,163,164	0
85	MG	1	4148	1/1	0.96	0.34	35,35,35,35	0
84	OHX	AR	3570	7/7	0.96	0.10	161,162,163,163	0
85	MG	AR	4176	1/1	0.96	0.14	52,52,52,52	0
85	MG	1	4151	1/1	0.96	0.13	53,53,53,53	0
85	MG	AR	3907	1/1	0.96	0.23	20,20,20,20	0
85	MG	1	4152	1/1	0.96	0.12	40,40,40,40	0
85	MG	AR	3909	1/1	0.96	0.20	14,14,14,14	0
85	MG	1	4153	1/1	0.96	0.06	39,39,39,39	0
84	OHX	6	1954	7/7	0.96	0.08	181,182,184,185	0
85	MG	6	2145	1/1	0.96	0.05	51,51,51,51	0
85	MG	AR	4187	1/1	0.96	0.15	27,27,27,27	0
85	MG	AR	4190	1/1	0.96	0.37	107,107,107,107	0
85	MG	AR	4191	1/1	0.96	0.20	38,38,38,38	0
85	MG	AR	3913	1/1	0.96	0.21	20,20,20,20	0
85	MG	AR	4193	1/1	0.96	0.15	62,62,62,62	0
84	OHX	AT	205	7/7	0.96	0.11	151,151,151,151	0
84	OHX	1	3515	7/7	0.96	0.14	128,128,129,129	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	3812	1/1	0.96	0.18	29,29,29,29	0
85	MG	AR	4199	1/1	0.96	0.23	64,64,64,64	0
85	MG	AR	3918	1/1	0.96	0.17	21,21,21,21	0
85	MG	1	4160	1/1	0.96	0.08	40,40,40,40	0
84	OHX	1	3541	7/7	0.96	0.10	154,155,156,156	0
84	OHX	1	3493	7/7	0.96	0.11	147,148,148,149	0
85	MG	1	3977	1/1	0.96	0.07	21,21,21,21	0
85	MG	AR	3924	1/1	0.96	0.18	13,13,13,13	0
85	MG	1	4164	1/1	0.96	0.09	48,48,48,48	0
84	OHX	6	2007	7/7	0.96	0.10	148,150,151,151	0
85	MG	1	4167	1/1	0.96	0.10	52,52,52,52	0
84	OHX	AT	210	7/7	0.96	0.09	164,164,165,165	0
84	OHX	1	3567	7/7	0.96	0.09	177,178,178,179	0
84	OHX	1	3495	7/7	0.96	0.13	133,134,135,135	0
84	OHX	AT	213	7/7	0.96	0.09	175,176,176,177	0
84	OHX	1	3518	7/7	0.96	0.14	134,135,135,136	0
85	MG	1	4173	1/1	0.96	0.09	33,33,33,33	0
85	MG	1	3823	1/1	0.96	0.13	51,51,51,51	0
84	OHX	AK	103	7/7	0.96	0.11	145,146,146,146	0
85	MG	1	4177	1/1	0.96	0.09	45,45,45,45	0
84	OHX	AP	502	7/7	0.96	0.15	124,124,126,127	0
84	OHX	AR	3430	7/7	0.96	0.15	137,137,138,138	0
84	OHX	AR	3583	7/7	0.96	0.12	148,149,150,150	0
84	OHX	AR	3464	7/7	0.96	0.20	117,118,118,118	0
85	MG	6	2173	1/1	0.96	0.14	69,69,69,69	0
84	OHX	AR	3466	7/7	0.96	0.12	114,115,116,116	0
85	MG	6	2175	1/1	0.96	0.10	41,41,41,41	0
85	MG	6	2177	1/1	0.96	0.15	25,25,25,25	0
85	MG	AR	4232	1/1	0.96	0.21	33,33,33,33	0
84	OHX	CE	402	7/7	0.96	0.10	142,143,144,144	0
84	OHX	AR	3467	7/7	0.96	0.13	137,138,138,139	0
85	MG	AR	4240	1/1	0.96	0.08	33,33,33,33	0
84	OHX	AR	3472	7/7	0.96	0.15	129,130,130,130	0
84	OHX	AR	3672	7/7	0.96	0.14	137,138,138,138	0
85	MG	6	2183	1/1	0.96	0.20	44,44,44,44	0
84	OHX	AR	3473	7/7	0.96	0.12	121,122,122,122	0
85	MG	AS	211	1/1	0.96	0.22	22,22,22,22	0
84	OHX	6	1963	7/7	0.96	0.10	159,159,161,161	0
85	MG	1	4190	1/1	0.96	0.16	26,26,26,26	0
84	OHX	4	203	7/7	0.96	0.09	181,182,183,184	0
85	MG	AS	215	1/1	0.96	0.27	12,12,12,12	0
85	MG	AR	3964	1/1	0.96	0.16	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	OHX	AR	3485	7/7	0.96	0.17	135,136,137,137	0
84	OHX	CL	301	7/7	0.96	0.11	165,166,167,168	0
84	OHX	AR	3488	7/7	0.96	0.10	129,130,130,131	0
85	MG	1	3844	1/1	0.96	0.18	9,9,9,9	0
85	MG	AS	222	1/1	0.96	0.15	13,13,13,13	0
85	MG	1	4007	1/1	0.96	0.18	16,16,16,16	0
84	OHX	AR	3489	7/7	0.96	0.11	149,150,151,152	0
85	MG	1	4009	1/1	0.96	0.10	41,41,41,41	0
84	OHX	AR	3493	7/7	0.96	0.11	137,139,139,140	0
84	OHX	6	2013	7/7	0.96	0.10	149,151,152,153	0
85	MG	AT	201	1/1	0.96	0.17	31,31,31,31	0
85	MG	1	4207	1/1	0.96	0.07	44,44,44,44	0
85	MG	1	3848	1/1	0.96	0.17	26,26,26,26	0
85	MG	1	3849	1/1	0.96	0.22	21,21,21,21	0
85	MG	AB	204	1/1	0.96	0.14	42,42,42,42	0
85	MG	AR	3982	1/1	0.96	0.09	35,35,35,35	0
84	OHX	6	1965	7/7	0.96	0.10	161,162,163,163	0
84	OHX	AR	3496	7/7	0.96	0.14	147,147,148,149	0
85	MG	AR	3985	1/1	0.96	0.16	19,19,19,19	0
84	OHX	AR	3497	7/7	0.96	0.11	140,140,141,141	0
84	OHX	1	3520	7/7	0.96	0.09	149,150,152,152	0
84	OHX	AR	3504	7/7	0.96	0.22	116,117,117,118	0
85	MG	AR	3993	1/1	0.96	0.12	62,62,62,62	0
85	MG	CE	404	1/1	0.96	0.24	24,24,24,24	0
85	MG	1	3856	1/1	0.96	0.20	15,15,15,15	0
85	MG	1	3857	1/1	0.96	0.19	12,12,12,12	0
85	MG	CF	403	1/1	0.96	0.10	30,30,30,30	0
85	MG	CI	301	1/1	0.96	0.16	48,48,48,48	0
84	OHX	A	1928	7/7	0.96	0.09	156,158,159,159	0
85	MG	AR	3997	1/1	0.96	0.17	45,45,45,45	0
85	MG	CO	203	1/1	0.96	0.12	46,46,46,46	0
84	OHX	AR	3505	7/7	0.96	0.11	138,140,141,141	0
85	MG	1	3860	1/1	0.96	0.22	19,19,19,19	0
84	OHX	AR	3506	7/7	0.96	0.11	158,159,159,160	0
85	MG	1	3862	1/1	0.96	0.17	18,18,18,18	0
84	OHX	T	201	7/7	0.96	0.11	133,135,137,138	0
84	OHX	A	1931	7/7	0.96	0.08	166,168,169,169	0
85	MG	AR	4006	1/1	0.96	0.07	33,33,33,33	0
85	MG	AR	4007	1/1	0.96	0.09	23,23,23,23	0
85	MG	AR	4008	1/1	0.96	0.12	33,33,33,33	0
84	OHX	AR	3508	7/7	0.96	0.13	139,139,140,140	0
85	MG	AR	4010	1/1	0.96	0.09	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	CX	202	1/1	0.96	0.21	6,6,6,6	0
84	OHX	AR	3512	7/7	0.96	0.14	132,132,132,133	0
85	MG	AR	3754	1/1	0.96	0.11	35,35,35,35	0
84	OHX	6	1967	7/7	0.96	0.11	157,159,160,160	0
84	OHX	A	1936	7/7	0.96	0.11	160,162,163,163	0
85	MG	4	219	1/1	0.96	0.23	24,24,24,24	0
85	MG	4	220	1/1	0.96	0.10	37,37,37,37	0
85	MG	1	4039	1/1	0.96	0.26	40,40,40,40	0
85	MG	4	222	1/1	0.96	0.18	61,61,61,61	0
85	MG	AR	3763	1/1	0.96	0.12	18,18,18,18	0
84	OHX	A	1937	7/7	0.96	0.11	152,154,157,157	0
85	MG	1	3873	1/1	0.96	0.23	18,18,18,18	0
84	OHX	6	1968	7/7	0.96	0.12	145,146,147,148	0
85	MG	DP	101	1/1	0.96	0.24	43,43,43,43	0
85	MG	1	4043	1/1	0.96	0.14	40,40,40,40	0
84	OHX	AR	3517	7/7	0.96	0.12	134,135,135,136	0
84	OHX	6	1969	7/7	0.96	0.09	163,163,165,165	0
85	MG	A	2043	1/1	0.96	0.19	47,47,47,47	0
85	MG	A	2044	1/1	0.96	0.13	25,25,25,25	0
85	MG	4	229	1/1	0.96	0.07	57,57,57,57	0
85	MG	1	3733	1/1	0.96	0.16	33,33,33,33	0
85	MG	1	3734	1/1	0.96	0.25	27,27,27,27	0
85	MG	1	4048	1/1	0.96	0.24	27,27,27,27	0
85	MG	AR	4033	1/1	0.96	0.13	63,63,63,63	0
85	MG	1	4049	1/1	0.96	0.13	36,36,36,36	0
85	MG	j	301	1/1	0.96	0.05	26,26,26,26	0
84	OHX	1	3496	7/7	0.96	0.19	115,116,117,117	0
84	OHX	AR	3521	7/7	0.96	0.10	160,161,161,162	0
84	OHX	1	3522	7/7	0.96	0.11	133,134,134,135	0
85	MG	1	4053	1/1	0.96	0.08	32,32,32,32	0
84	OHX	A	1949	7/7	0.96	0.09	165,167,169,169	0
84	OHX	1	3574	7/7	0.96	0.13	138,139,140,140	0
85	MG	1	4057	1/1	0.96	0.10	30,30,30,30	0
85	MG	AR	3792	1/1	0.96	0.07	28,28,28,28	0
85	MG	1	3885	1/1	0.96	0.25	10,10,10,10	0
85	MG	1	3742	1/1	0.96	0.15	19,19,19,19	0
85	MG	1	4061	1/1	0.96	0.21	23,23,23,23	0
85	MG	1	4062	1/1	0.96	0.06	33,33,33,33	0
84	OHX	4	208	7/7	0.96	0.08	187,187,188,188	0
84	OHX	AR	3525	7/7	0.96	0.12	150,151,151,152	0
84	OHX	A	1953	7/7	0.96	0.09	180,182,184,184	0
85	MG	AR	3802	1/1	0.96	0.21	16,16,16,16	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4067	1/1	0.96	0.10	24,24,24,24	0
84	OHX	1	3478	7/7	0.96	0.13	133,134,135,135	0
84	OHX	AR	3528	7/7	0.96	0.10	147,147,148,149	0
84	OHX	A	1957	7/7	0.96	0.11	169,171,172,173	0
85	MG	1	4071	1/1	0.96	0.23	16,16,16,16	0
85	MG	6	2063	1/1	0.96	0.17	31,31,31,31	0
84	OHX	1	3503	7/7	0.96	0.10	145,146,147,148	0
85	MG	AR	4066	1/1	0.96	0.11	35,35,35,35	0
85	MG	1	3895	1/1	0.96	0.08	29,29,29,29	0
85	MG	1	3896	1/1	0.96	0.26	10,10,10,10	0
84	OHX	1	3526	7/7	0.96	0.08	167,168,169,170	0
84	OHX	1	3578	7/7	0.96	0.10	168,170,170,171	0
84	OHX	1	3579	7/7	0.96	0.08	175,175,177,177	0
84	OHX	A	1963	7/7	0.96	0.09	185,187,189,190	0
85	MG	AR	3817	1/1	0.96	0.15	20,20,20,20	0
85	MG	1	3755	1/1	0.96	0.22	41,41,41,41	0
85	MG	AR	4076	1/1	0.96	0.14	38,38,38,38	0
84	OHX	1	3527	7/7	0.96	0.09	138,139,140,140	0
84	OHX	1	3458	7/7	0.96	0.12	131,132,133,133	0
85	MG	AR	4080	1/1	0.96	0.09	16,16,16,16	0
84	OHX	1	3583	7/7	0.96	0.10	144,144,145,145	0
85	MG	AR	4082	1/1	0.96	0.05	48,48,48,48	0
84	OHX	1	3530	7/7	0.96	0.10	151,151,151,152	0
84	OHX	1	3586	7/7	0.96	0.07	182,183,185,186	0
85	MG	AR	3827	1/1	0.96	0.25	40,40,40,40	0
85	MG	1	3762	1/1	0.96	0.20	40,40,40,40	0
84	OHX	AR	3542	7/7	0.96	0.23	133,134,134,134	0
84	OHX	6	1985	7/7	0.96	0.08	191,193,194,195	0
84	OHX	A	1972	7/7	0.96	0.07	195,196,198,199	0
84	OHX	AR	3630	7/7	0.96	0.08	172,173,174,175	0
84	OHX	A	1974	7/7	0.96	0.09	196,198,200,201	0
84	OHX	A	1975	7/7	0.96	0.07	190,193,195,195	0
85	MG	1	4099	1/1	0.96	0.15	16,16,16,16	0
84	OHX	A	1976	7/7	0.96	0.09	165,166,167,168	0
85	MG	1	3921	1/1	0.96	0.20	45,45,45,45	0
84	OHX	AR	3715	7/7	0.96	0.09	144,146,147,147	0
85	MG	1	3923	1/1	0.96	0.22	7,7,7,7	0
85	MG	AR	3847	1/1	0.96	0.16	35,35,35,35	0
85	MG	AR	4103	1/1	0.96	0.07	35,35,35,35	0
85	MG	AR	4104	1/1	0.96	0.11	55,55,55,55	0
84	OHX	1	3470	7/7	0.96	0.11	141,142,143,143	0
85	MG	1	4106	1/1	0.96	0.10	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3533	7/7	0.96	0.08	196,197,198,199	0
84	OHX	AR	3547	7/7	0.96	0.14	147,147,147,148	0
84	OHX	1	3475	7/7	0.96	0.15	128,129,130,130	0
84	OHX	1	3509	7/7	0.96	0.10	155,155,157,157	0
85	MG	AR	4113	1/1	0.96	0.08	17,17,17,17	0
84	OHX	AR	3636	7/7	0.96	0.09	187,188,188,189	0
84	OHX	1	3558	7/7	0.96	0.10	166,167,168,168	0
84	OHX	1	3623	7/7	0.96	0.08	224,225,226,226	0
84	OHX	1	3490	7/7	0.96	0.14	134,135,136,136	0
85	MG	AR	4118	1/1	0.96	0.07	29,29,29,29	0
85	MG	A	2124	1/1	0.96	0.25	57,57,57,57	0
84	OHX	1	3593	7/7	0.96	0.07	206,207,208,209	0
85	MG	AR	3861	1/1	0.96	0.14	16,16,16,16	0
85	MG	1	3940	1/1	0.96	0.04	21,21,21,21	0
85	MG	6	2105	1/1	0.96	0.17	24,24,24,24	0
84	OHX	AR	3556	7/7	0.96	0.13	138,139,140,140	0
85	MG	1	3944	1/1	0.96	0.27	33,33,33,33	0
85	MG	6	2108	1/1	0.96	0.23	44,44,44,44	0
85	MG	1	3945	1/1	0.96	0.06	17,17,17,17	0
85	MG	1	4122	1/1	0.96	0.20	45,45,45,45	0
84	OHX	6	1937	7/7	0.96	0.11	140,141,141,141	0
84	OHX	1	3626	7/7	0.96	0.20	137,137,138,138	0
85	MG	6	2114	1/1	0.96	0.22	28,28,28,28	0
84	OHX	1	3560	7/7	0.96	0.11	155,156,158,158	0
85	MG	A	2140	1/1	0.96	0.16	55,55,55,55	0
85	MG	AR	4135	1/1	0.96	0.08	66,66,66,66	0
84	OHX	6	1945	7/7	0.96	0.09	149,150,151,152	0
85	MG	AR	4139	1/1	0.96	0.18	37,37,37,37	0
85	MG	AR	4140	1/1	0.96	0.09	24,24,24,24	0
85	MG	6	2117	1/1	0.96	0.20	21,21,21,21	0
85	MG	1	3951	1/1	0.96	0.11	43,43,43,43	0
85	MG	6	2119	1/1	0.96	0.17	31,31,31,31	0
85	MG	AR	4144	1/1	0.96	0.11	35,35,35,35	0
84	OHX	AR	3562	7/7	0.96	0.09	173,174,175,176	0
85	MG	1	3953	1/1	0.96	0.20	32,32,32,32	0
85	MG	6	2122	1/1	0.96	0.15	48,48,48,48	0
85	MG	AR	4149	1/1	0.96	0.09	28,28,28,28	0
85	MG	AR	4150	1/1	0.96	0.07	49,49,49,49	0
85	MG	AR	3886	1/1	0.96	0.14	15,15,15,15	0
84	OHX	1	3537	7/7	0.96	0.10	160,161,162,162	0
84	OHX	6	1949	7/7	0.96	0.10	165,167,168,168	0
85	MG	AR	4154	1/1	0.96	0.13	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	4155	1/1	0.96	0.05	27,27,27,27	0
84	OHX	1	3476	7/7	0.96	0.15	121,121,122,123	0
85	MG	1	3957	1/1	0.96	0.16	29,29,29,29	0
85	MG	d3	201	1/1	0.96	0.21	48,48,48,48	0
84	OHX	1	3563	7/7	0.96	0.12	151,152,152,152	0
85	MG	1	3796	1/1	0.96	0.07	33,33,33,33	0
84	OHX	AR	3567	7/7	0.96	0.10	159,159,160,160	0
84	OHX	AR	3568	7/7	0.96	0.10	162,163,164,165	0
84	OHX	3	203	7/7	0.96	0.11	143,144,145,145	0
85	MG	AR	3896	1/1	0.96	0.20	37,37,37,37	0
84	OHX	AR	3739	7/7	0.96	0.15	151,152,152,152	0
85	MG	AR	3898	1/1	0.96	0.23	16,16,16,16	0
84	OHX	AS	206	7/7	0.96	0.09	146,146,148,148	0
87	ZN	e1	501	1/1	0.96	0.05	176,176,176,176	0
85	MG	AR	3796	1/1	0.97	0.20	32,32,32,32	0
84	OHX	AR	3487	7/7	0.97	0.12	116,117,117,117	0
85	MG	AR	3798	1/1	0.97	0.09	21,21,21,21	0
84	OHX	1	3473	7/7	0.97	0.10	119,120,121,121	0
85	MG	6	2094	1/1	0.97	0.18	24,24,24,24	0
84	OHX	6	2030	7/7	0.97	0.10	160,161,162,162	0
84	OHX	AR	3491	7/7	0.97	0.12	130,131,132,132	0
85	MG	AR	4004	1/1	0.97	0.11	27,27,27,27	0
84	OHX	AR	3492	7/7	0.97	0.12	134,135,135,135	0
85	MG	1	4018	1/1	0.97	0.12	26,26,26,26	0
84	OHX	6	1946	7/7	0.97	0.10	160,161,163,164	0
85	MG	1	4020	1/1	0.97	0.06	38,38,38,38	0
85	MG	1	3891	1/1	0.97	0.27	16,16,16,16	0
85	MG	AR	4235	1/1	0.97	0.11	15,15,15,15	0
85	MG	AR	4236	1/1	0.97	0.13	22,22,22,22	0
85	MG	AR	4237	1/1	0.97	0.10	26,26,26,26	0
84	OHX	CX	201	7/7	0.97	0.16	121,122,123,124	0
84	OHX	A	2008	7/7	0.97	0.08	156,158,159,159	0
84	OHX	1	3474	7/7	0.97	0.12	131,132,133,133	0
84	OHX	DG	201	7/7	0.97	0.17	132,133,133,134	0
84	OHX	1	3459	7/7	0.97	0.15	134,134,135,136	0
84	OHX	1	3497	7/7	0.97	0.11	140,141,142,142	0
85	MG	AR	3814	1/1	0.97	0.13	27,27,27,27	0
84	OHX	DL	101	7/7	0.97	0.10	144,144,144,144	0
84	OHX	6	1951	7/7	0.97	0.09	165,167,169,170	0
84	OHX	A	1913	7/7	0.97	0.14	121,122,123,124	0
85	MG	1	3902	1/1	0.97	0.21	4,4,4,4	0
84	OHX	A	1915	7/7	0.97	0.09	149,151,152,154	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
85	MG	1	4176	1/1	0.97	0.04	27,27,27,27	0
85	MG	AR	3822	1/1	0.97	0.07	52,52,52,52	0
85	MG	1	3789	1/1	0.97	0.26	51,51,51,51	0
84	OHX	A	1918	7/7	0.97	0.12	120,122,123,123	0
84	OHX	A	1920	7/7	0.97	0.10	141,142,143,144	0
84	OHX	A	1921	7/7	0.97	0.11	139,141,143,143	0
85	MG	AS	226	1/1	0.97	0.12	36,36,36,36	0
85	MG	1	3793	1/1	0.97	0.20	12,12,12,12	0
84	OHX	A	1924	7/7	0.97	0.09	153,154,155,156	0
84	OHX	A	1926	7/7	0.97	0.09	149,150,151,152	0
85	MG	AR	4034	1/1	0.97	0.15	42,42,42,42	0
85	MG	AR	4035	1/1	0.97	0.07	39,39,39,39	0
85	MG	AR	3832	1/1	0.97	0.11	46,46,46,46	0
85	MG	AR	3833	1/1	0.97	0.12	37,37,37,37	0
85	MG	AR	4038	1/1	0.97	0.11	30,30,30,30	0
84	OHX	AR	3499	7/7	0.97	0.11	130,131,133,133	0
85	MG	1	3799	1/1	0.97	0.18	28,28,28,28	0
84	OHX	1	3498	7/7	0.97	0.11	150,150,151,152	0
85	MG	AR	4042	1/1	0.97	0.08	20,20,20,20	0
85	MG	AR	3837	1/1	0.97	0.05	16,16,16,16	0
85	MG	AT	230	1/1	0.97	0.12	48,48,48,48	0
84	OHX	AR	3502	7/7	0.97	0.10	131,132,132,133	0
84	OHX	1	3525	7/7	0.97	0.09	151,152,153,154	0
85	MG	AR	4046	1/1	0.97	0.14	45,45,45,45	0
84	OHX	1	3669	7/7	0.97	0.12	125,126,127,127	0
84	OHX	1	3449	7/7	0.97	0.10	119,120,121,121	0
85	MG	AR	3843	1/1	0.97	0.07	13,13,13,13	0
84	OHX	A	1933	7/7	0.97	0.08	154,155,156,157	0
84	OHX	1	3477	7/7	0.97	0.10	118,119,120,120	0
85	MG	6	2132	1/1	0.97	0.07	38,38,38,38	0
84	OHX	AR	3580	7/7	0.97	0.11	139,139,140,140	0
85	MG	AR	4054	1/1	0.97	0.11	33,33,33,33	0
85	MG	1	4196	1/1	0.97	0.13	35,35,35,35	0
84	OHX	AR	3510	7/7	0.97	0.08	154,155,156,157	0
85	MG	AR	4057	1/1	0.97	0.08	46,46,46,46	0
85	MG	6	2136	1/1	0.97	0.21	29,29,29,29	0
85	MG	1	4199	1/1	0.97	0.26	25,25,25,25	0
85	MG	AR	3854	1/1	0.97	0.18	28,28,28,28	0
85	MG	1	4054	1/1	0.97	0.12	40,40,40,40	0
85	MG	1	4201	1/1	0.97	0.17	31,31,31,31	0
84	OHX	1	3462	7/7	0.97	0.13	115,116,117,118	0
85	MG	1	3811	1/1	0.97	0.09	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	A	1939	7/7	0.97	0.09	153,155,156,157	0
85	MG	CU	201	1/1	0.97	0.22	44,44,44,44	0
85	MG	CU	202	1/1	0.97	0.15	31,31,31,31	0
85	MG	1	3931	1/1	0.97	0.10	31,31,31,31	0
84	OHX	AR	3513	7/7	0.97	0.09	152,153,154,154	0
84	OHX	AR	3514	7/7	0.97	0.09	146,147,147,148	0
85	MG	1	3936	1/1	0.97	0.07	48,48,48,48	0
85	MG	AR	3865	1/1	0.97	0.22	23,23,23,23	0
85	MG	1	3815	1/1	0.97	0.23	40,40,40,40	0
84	OHX	A	1942	7/7	0.97	0.08	163,165,166,167	0
85	MG	1	4215	1/1	0.97	0.24	28,28,28,28	0
84	OHX	6	1959	7/7	0.97	0.08	154,155,156,157	0
85	MG	1	4218	1/1	0.97	0.05	84,84,84,84	0
85	MG	1	4219	1/1	0.97	0.17	47,47,47,47	0
85	MG	AR	4078	1/1	0.97	0.09	23,23,23,23	0
85	MG	6	2154	1/1	0.97	0.08	38,38,38,38	0
84	OHX	1	3529	7/7	0.97	0.08	143,144,145,146	0
84	OHX	1	3479	7/7	0.97	0.12	136,137,138,138	0
85	MG	AR	3877	1/1	0.97	0.22	14,14,14,14	0
85	MG	6	2157	1/1	0.97	0.18	45,45,45,45	0
84	OHX	1	3483	7/7	0.97	0.11	118,119,120,121	0
84	OHX	A	1948	7/7	0.97	0.08	166,169,170,170	0
85	MG	A	2045	1/1	0.97	0.12	35,35,35,35	0
84	OHX	AR	3519	7/7	0.97	0.15	135,135,136,136	0
84	OHX	1	3464	7/7	0.97	0.12	136,137,138,139	0
85	MG	AR	4089	1/1	0.97	0.25	15,15,15,15	0
84	OHX	v	301	7/7	0.97	0.09	155,155,156,156	0
84	OHX	1	3510	7/7	0.97	0.09	148,148,149,149	0
85	MG	1	3827	1/1	0.97	0.15	21,21,21,21	0
84	OHX	1	3453	7/7	0.97	0.09	130,132,133,133	0
84	OHX	1	3730	7/7	0.97	0.10	141,142,143,143	0
84	OHX	AR	3595	7/7	0.97	0.09	160,161,161,162	0
85	MG	AR	4097	1/1	0.97	0.08	26,26,26,26	0
85	MG	6	2168	1/1	0.97	0.19	50,50,50,50	0
84	OHX	1	3582	7/7	0.97	0.09	152,153,154,155	0
85	MG	4	213	1/1	0.97	0.14	34,34,34,34	0
85	MG	4	214	1/1	0.97	0.15	18,18,18,18	0
84	OHX	1	3486	7/7	0.97	0.11	146,146,147,147	0
85	MG	4	216	1/1	0.97	0.17	42,42,42,42	0
84	OHX	AR	3527	7/7	0.97	0.10	138,139,140,141	0
85	MG	6	2176	1/1	0.97	0.09	73,73,73,73	0
84	OHX	6	1919	7/7	0.97	0.13	112,113,114,114	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	6	2178	1/1	0.97	0.05	26,26,26,26	0
85	MG	1	4083	1/1	0.97	0.10	34,34,34,34	0
84	OHX	A	1961	7/7	0.97	0.07	175,176,179,180	0
85	MG	AR	4111	1/1	0.97	0.14	48,48,48,48	0
84	OHX	6	1923	7/7	0.97	0.10	136,138,139,139	0
85	MG	AR	3904	1/1	0.97	0.28	11,11,11,11	0
85	MG	1	4086	1/1	0.97	0.18	16,16,16,16	0
84	OHX	1	3513	7/7	0.97	0.09	140,141,142,142	0
85	MG	1	3962	1/1	0.97	0.15	33,33,33,33	0
84	OHX	AR	3532	7/7	0.97	0.17	129,130,130,131	0
84	OHX	AS	202	7/7	0.97	0.11	122,123,124,124	0
85	MG	A	2077	1/1	0.97	0.16	25,25,25,25	0
85	MG	1	3965	1/1	0.97	0.11	32,32,32,32	0
84	OHX	AS	204	7/7	0.97	0.10	140,141,141,141	0
84	OHX	AS	205	7/7	0.97	0.09	144,146,147,147	0
85	MG	1	4097	1/1	0.97	0.15	61,61,61,61	0
85	MG	AR	4123	1/1	0.97	0.07	39,39,39,39	0
84	OHX	A	1968	7/7	0.97	0.08	168,170,171,172	0
84	OHX	1	3585	7/7	0.97	0.08	173,174,174,175	0
85	MG	1	3737	1/1	0.97	0.21	36,36,36,36	0
85	MG	k	403	1/1	0.97	0.14	24,24,24,24	0
85	MG	k	404	1/1	0.97	0.15	71,71,71,71	0
85	MG	AR	4129	1/1	0.97	0.11	21,21,21,21	0
84	OHX	6	1929	7/7	0.97	0.11	147,148,151,152	0
85	MG	AR	3921	1/1	0.97	0.16	10,10,10,10	0
85	MG	o	301	1/1	0.97	0.07	39,39,39,39	0
85	MG	o	302	1/1	0.97	0.10	27,27,27,27	0
84	OHX	6	1975	7/7	0.97	0.08	160,161,162,162	0
85	MG	AR	4136	1/1	0.97	0.15	41,41,41,41	0
85	MG	AR	4137	1/1	0.97	0.11	57,57,57,57	0
85	MG	A	2096	1/1	0.97	0.17	51,51,51,51	0
85	MG	r	302	1/1	0.97	0.12	40,40,40,40	0
84	OHX	AR	3536	7/7	0.97	0.11	141,141,142,142	0
85	MG	AR	3927	1/1	0.97	0.36	11,11,11,11	0
85	MG	1	3974	1/1	0.97	0.14	43,43,43,43	0
84	OHX	1	3514	7/7	0.97	0.11	148,148,149,149	0
84	OHX	AT	204	7/7	0.97	0.08	143,143,143,143	0
84	OHX	AK	102	7/7	0.97	0.11	121,122,122,122	0
84	OHX	1	3468	7/7	0.97	0.14	104,104,104,105	0
84	OHX	AR	3610	7/7	0.97	0.12	139,140,140,140	0
84	OHX	6	1933	7/7	0.97	0.14	121,122,123,123	0
85	MG	AR	4148	1/1	0.97	0.09	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	6	1935	7/7	0.97	0.09	136,137,138,139	0
85	MG	x	207	1/1	0.97	0.10	17,17,17,17	0
85	MG	AR	3745	1/1	0.97	0.19	32,32,32,32	0
85	MG	1	4114	1/1	0.97	0.14	33,33,33,33	0
84	OHX	AR	3457	7/7	0.97	0.10	107,107,108,108	0
85	MG	l2	201	1/1	0.97	0.19	21,21,21,21	0
84	OHX	AR	3463	7/7	0.97	0.13	114,114,115,115	0
85	MG	AR	3943	1/1	0.97	0.08	73,73,73,73	0
85	MG	AR	3944	1/1	0.97	0.15	39,39,39,39	0
85	MG	AR	4158	1/1	0.97	0.05	21,21,21,21	0
84	OHX	1	3448	7/7	0.97	0.18	104,105,106,106	0
85	MG	AR	3947	1/1	0.97	0.13	26,26,26,26	0
85	MG	AR	3948	1/1	0.97	0.15	16,16,16,16	0
85	MG	1	3752	1/1	0.97	0.15	27,27,27,27	0
84	OHX	AR	3546	7/7	0.97	0.13	140,140,141,141	0
84	OHX	1	3472	7/7	0.97	0.12	114,115,115,116	0
85	MG	1	4121	1/1	0.97	0.07	32,32,32,32	0
84	OHX	6	1938	7/7	0.97	0.08	145,146,148,148	0
85	MG	1	4123	1/1	0.97	0.09	41,41,41,41	0
85	MG	1	3756	1/1	0.97	0.10	22,22,22,22	0
85	MG	A	2128	1/1	0.97	0.15	53,53,53,53	0
84	OHX	6	1939	7/7	0.97	0.10	131,133,134,135	0
84	OHX	A	1988	7/7	0.97	0.07	158,160,162,162	0
85	MG	AR	4174	1/1	0.97	0.13	23,23,23,23	0
85	MG	1	3871	1/1	0.97	0.12	27,27,27,27	0
85	MG	6	2069	1/1	0.97	0.24	26,26,26,26	0
84	OHX	1	3492	7/7	0.97	0.14	127,128,128,128	0
85	MG	AR	4178	1/1	0.97	0.08	48,48,48,48	0
85	MG	1	3994	1/1	0.97	0.10	32,32,32,32	0
85	MG	1	3995	1/1	0.97	0.12	54,54,54,54	0
85	MG	A	2138	1/1	0.97	0.11	35,35,35,35	0
85	MG	1	3996	1/1	0.97	0.19	51,51,51,51	0
85	MG	AR	3771	1/1	0.97	0.20	24,24,24,24	0
85	MG	A	2141	1/1	0.97	0.15	73,73,73,73	0
84	OHX	AR	3475	7/7	0.97	0.14	114,115,115,116	0
84	OHX	AR	3552	7/7	0.97	0.11	148,148,149,149	0
84	OHX	A	1992	7/7	0.97	0.09	167,169,170,171	0
85	MG	AR	3776	1/1	0.97	0.07	32,32,32,32	0
85	MG	1	3876	1/1	0.97	0.15	39,39,39,39	0
85	MG	AR	3973	1/1	0.97	0.11	27,27,27,27	0
85	MG	AR	3779	1/1	0.97	0.24	20,20,20,20	0
84	OHX	AR	3476	7/7	0.97	0.10	127,128,129,130	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	AR	4195	1/1	0.97	0.08	21,21,21,21	0
85	MG	AR	3782	1/1	0.97	0.10	30,30,30,30	0
85	MG	AR	3977	1/1	0.97	0.27	26,26,26,26	0
85	MG	AR	4198	1/1	0.97	0.12	34,34,34,34	0
85	MG	AR	3978	1/1	0.97	0.10	20,20,20,20	0
85	MG	AR	4200	1/1	0.97	0.30	30,30,30,30	0
84	OHX	4	202	7/7	0.97	0.07	157,158,158,158	0
85	MG	1	4003	1/1	0.97	0.16	46,46,46,46	0
85	MG	AR	3981	1/1	0.97	0.06	17,17,17,17	0
85	MG	1	4004	1/1	0.97	0.05	31,31,31,31	0
85	MG	AR	4205	1/1	0.97	0.09	30,30,30,30	0
84	OHX	AR	3479	7/7	0.97	0.12	119,119,120,120	0
84	OHX	AR	3480	7/7	0.97	0.14	132,132,132,133	0
84	OHX	AR	3481	7/7	0.97	0.10	132,132,133,133	0
85	MG	1	4145	1/1	0.97	0.10	48,48,48,48	0
85	MG	AR	3987	1/1	0.97	0.12	50,50,50,50	0
84	OHX	AR	3482	7/7	0.97	0.14	116,117,117,117	0
85	MG	AR	3989	1/1	0.97	0.07	85,85,85,85	0
84	OHX	6	1943	7/7	0.97	0.09	147,149,150,150	0
86	7MB	AR	4239	20/20	0.97	0.10	44,44,44,44	0
85	MG	AR	3992	1/1	0.97	0.30	19,19,19,19	0
87	ZN	DQ	501	1/1	0.97	0.06	105,105,105,105	0
84	OHX	6	1944	7/7	0.97	0.10	154,155,157,158	0
87	ZN	g	501	1/1	0.97	0.04	143,143,143,143	0
85	MG	1	4011	1/1	0.97	0.10	38,38,38,38	0
85	MG	1	4012	1/1	0.97	0.13	26,26,26,26	0
85	MG	AR	3946	1/1	0.98	0.05	28,28,28,28	0
85	MG	1	3740	1/1	0.98	0.13	7,7,7,7	0
84	OHX	AR	3501	7/7	0.98	0.11	118,118,120,120	0
85	MG	1	4212	1/1	0.98	0.04	27,27,27,27	0
84	OHX	6	1948	7/7	0.98	0.09	145,147,148,148	0
84	OHX	AR	3503	7/7	0.98	0.09	152,153,154,154	0
84	OHX	1	3434	7/7	0.98	0.11	94,95,95,95	0
84	OHX	1	3494	7/7	0.98	0.09	141,142,144,144	0
84	OHX	1	3435	7/7	0.98	0.13	103,104,105,105	0
84	OHX	AR	3507	7/7	0.98	0.09	136,136,137,137	0
85	MG	1	4087	1/1	0.98	0.11	37,37,37,37	0
84	OHX	1	3454	7/7	0.98	0.14	111,112,113,113	0
85	MG	1	4222	1/1	0.98	0.09	30,30,30,30	0
85	MG	AR	3961	1/1	0.98	0.16	23,23,23,23	0
85	MG	1	4089	1/1	0.98	0.05	30,30,30,30	0
84	OHX	AR	3509	7/7	0.98	0.10	135,136,136,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	CR	206	1/1	0.98	0.05	30,30,30,30	0
84	OHX	1	3455	7/7	0.98	0.11	104,104,105,105	0
84	OHX	1	3456	7/7	0.98	0.09	114,115,116,117	0
84	OHX	1	3499	7/7	0.98	0.13	124,125,126,126	0
84	OHX	1	3440	7/7	0.98	0.10	94,95,95,95	0
84	OHX	6	1957	7/7	0.98	0.08	144,145,146,147	0
84	OHX	1	3689	7/7	0.98	0.09	140,141,142,142	0
84	OHX	1	3501	7/7	0.98	0.10	123,124,125,125	0
84	OHX	1	3502	7/7	0.98	0.10	100,101,102,102	0
85	MG	AR	4132	1/1	0.98	0.10	36,36,36,36	0
84	OHX	1	3532	7/7	0.98	0.12	133,133,134,134	0
84	OHX	1	3407	7/7	0.98	0.17	83,83,83,83	0
85	MG	AR	3818	1/1	0.98	0.12	45,45,45,45	0
84	OHX	6	1902	7/7	0.98	0.17	102,102,102,102	0
85	MG	1	4104	1/1	0.98	0.17	32,32,32,32	0
84	OHX	6	1907	7/7	0.98	0.15	100,101,101,101	0
85	MG	DO	202	1/1	0.98	0.08	46,46,46,46	0
84	OHX	1	3460	7/7	0.98	0.10	112,114,115,116	0
85	MG	4	218	1/1	0.98	0.18	7,7,7,7	0
84	OHX	6	1917	7/7	0.98	0.09	113,114,116,117	0
85	MG	AR	3825	1/1	0.98	0.16	30,30,30,30	0
84	OHX	AR	3401	7/7	0.98	0.22	93,93,93,93	0
84	OHX	AR	3427	7/7	0.98	0.14	87,87,87,87	0
84	OHX	AR	3429	7/7	0.98	0.07	105,105,106,106	0
84	OHX	6	1918	7/7	0.98	0.11	103,104,105,105	0
84	OHX	AR	3433	7/7	0.98	0.12	94,94,94,95	0
85	MG	AR	3831	1/1	0.98	0.18	45,45,45,45	0
84	OHX	AR	3435	7/7	0.98	0.10	96,96,96,96	0
84	OHX	AR	3531	7/7	0.98	0.09	123,124,124,124	0
85	MG	1	3771	1/1	0.98	0.22	23,23,23,23	0
85	MG	AR	3991	1/1	0.98	0.15	15,15,15,15	0
84	OHX	AR	3438	7/7	0.98	0.11	89,89,89,90	0
84	OHX	AR	3697	7/7	0.98	0.12	115,116,116,116	0
84	OHX	AR	3441	7/7	0.98	0.12	109,110,110,111	0
84	OHX	AR	3442	7/7	0.98	0.11	110,111,111,111	0
85	MG	AR	3839	1/1	0.98	0.10	30,30,30,30	0
84	OHX	AR	3443	7/7	0.98	0.10	98,99,100,101	0
84	OHX	AR	3444	7/7	0.98	0.10	101,102,102,103	0
85	MG	A	2060	1/1	0.98	0.17	20,20,20,20	0
84	OHX	A	1909	7/7	0.98	0.10	124,125,128,129	0
85	MG	j	302	1/1	0.98	0.10	29,29,29,29	0
84	OHX	A	1911	7/7	0.98	0.10	115,117,118,120	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	A	1912	7/7	0.98	0.10	132,133,135,136	0
85	MG	AR	4003	1/1	0.98	0.11	73,73,73,73	0
85	MG	AR	4165	1/1	0.98	0.05	88,88,88,88	0
84	OHX	AR	3537	7/7	0.98	0.08	133,134,135,135	0
85	MG	l	403	1/1	0.98	0.06	20,20,20,20	0
84	OHX	AR	3445	7/7	0.98	0.11	94,94,94,95	0
85	MG	AR	4169	1/1	0.98	0.04	34,34,34,34	0
85	MG	6	2172	1/1	0.98	0.08	32,32,32,32	0
84	OHX	A	1916	7/7	0.98	0.08	128,130,131,131	0
84	OHX	A	1917	7/7	0.98	0.10	126,128,129,130	0
84	OHX	AR	3450	7/7	0.98	0.09	109,110,112,113	0
85	MG	AR	4011	1/1	0.98	0.20	31,31,31,31	0
84	OHX	A	1919	7/7	0.98	0.12	113,115,116,116	0
85	MG	1	3787	1/1	0.98	0.12	15,15,15,15	0
84	OHX	AR	3451	7/7	0.98	0.12	104,105,106,106	0
84	OHX	AR	3452	7/7	0.98	0.10	108,109,110,111	0
85	MG	1	3897	1/1	0.98	0.19	13,13,13,13	0
84	OHX	A	1922	7/7	0.98	0.08	138,140,141,141	0
84	OHX	A	1923	7/7	0.98	0.08	137,138,140,140	0
85	MG	AR	4184	1/1	0.98	0.05	35,35,35,35	0
85	MG	1	4137	1/1	0.98	0.17	38,38,38,38	0
85	MG	AR	3863	1/1	0.98	0.24	15,15,15,15	0
84	OHX	AR	3453	7/7	0.98	0.10	127,128,128,128	0
84	OHX	A	1925	7/7	0.98	0.07	171,172,174,175	0
85	MG	6	2186	1/1	0.98	0.05	82,82,82,82	0
85	MG	6	2187	1/1	0.98	0.12	82,82,82,82	0
85	MG	1	3794	1/1	0.98	0.06	31,31,31,31	0
85	MG	AR	3869	1/1	0.98	0.14	12,12,12,12	0
84	OHX	AR	3455	7/7	0.98	0.12	106,107,108,108	0
85	MG	1	3904	1/1	0.98	0.22	4,4,4,4	0
85	MG	AR	3872	1/1	0.98	0.22	0,0,0,0	0
85	MG	AR	4031	1/1	0.98	0.10	31,31,31,31	0
84	OHX	AR	3456	7/7	0.98	0.10	109,110,110,111	0
85	MG	1	3797	1/1	0.98	0.07	41,41,41,41	0
85	MG	1	3908	1/1	0.98	0.20	14,14,14,14	0
85	MG	1	4147	1/1	0.98	0.14	28,28,28,28	0
84	OHX	1	3505	7/7	0.98	0.09	139,139,140,140	0
85	MG	1	4149	1/1	0.98	0.18	45,45,45,45	0
84	OHX	AR	3459	7/7	0.98	0.11	97,97,98,99	0
85	MG	1	3800	1/1	0.98	0.12	37,37,37,37	0
85	MG	AR	4207	1/1	0.98	0.10	50,50,50,50	0
85	MG	AR	3881	1/1	0.98	0.17	12,12,12,12	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
85	MG	1	4028	1/1	0.98	0.06	24,24,24,24	0
84	OHX	AR	3460	7/7	0.98	0.09	109,109,110,110	0
84	OHX	AR	3461	7/7	0.98	0.09	108,109,109,110	0
84	OHX	6	1920	7/7	0.98	0.10	124,126,127,128	0
85	MG	1	4156	1/1	0.98	0.10	65,65,65,65	0
84	OHX	6	1921	7/7	0.98	0.11	121,124,124,126	0
85	MG	1	3916	1/1	0.98	0.20	14,14,14,14	0
84	OHX	6	1922	7/7	0.98	0.09	111,112,113,114	0
84	OHX	1	3442	7/7	0.98	0.10	98,99,99,100	0
84	OHX	AR	3553	7/7	0.98	0.06	160,160,161,162	0
84	OHX	AR	3469	7/7	0.98	0.08	122,124,125,125	0
85	MG	AR	3741	1/1	0.98	0.14	14,14,14,14	0
84	OHX	AR	3470	7/7	0.98	0.08	125,127,127,128	0
85	MG	AR	4222	1/1	0.98	0.05	27,27,27,27	0
84	OHX	AR	3471	7/7	0.98	0.16	127,127,128,128	0
84	OHX	AR	3557	7/7	0.98	0.07	144,145,146,146	0
84	OHX	6	1925	7/7	0.98	0.12	116,116,118,118	0
85	MG	AR	4226	1/1	0.98	0.28	16,16,16,16	0
84	OHX	6	1926	7/7	0.98	0.08	122,123,124,124	0
84	OHX	A	1944	7/7	0.98	0.08	161,163,165,165	0
84	OHX	AR	3474	7/7	0.98	0.11	119,120,121,121	0
84	OHX	1	3480	7/7	0.98	0.08	141,141,142,142	0
85	MG	AR	4231	1/1	0.98	0.12	9,9,9,9	0
85	MG	AR	3751	1/1	0.98	0.15	29,29,29,29	0
84	OHX	1	3538	7/7	0.98	0.10	135,135,137,137	0
84	OHX	3	201	7/7	0.98	0.10	106,107,108,108	0
84	OHX	6	1930	7/7	0.98	0.09	114,115,116,117	0
85	MG	1	3820	1/1	0.98	0.16	30,30,30,30	0
85	MG	AR	3756	1/1	0.98	0.30	11,11,11,11	0
84	OHX	1	3508	7/7	0.98	0.07	140,142,143,144	0
84	OHX	1	3571	7/7	0.98	0.07	144,145,145,146	0
85	MG	6	2090	1/1	0.98	0.23	45,45,45,45	0
84	OHX	1	3481	7/7	0.98	0.08	130,131,132,133	0
84	OHX	AR	3483	7/7	0.98	0.12	124,125,125,126	0
84	OHX	6	1934	7/7	0.98	0.08	141,141,143,144	0
85	MG	AR	4073	1/1	0.98	0.05	33,33,33,33	0
85	MG	1	3942	1/1	0.98	0.14	20,20,20,20	0
85	MG	AR	3916	1/1	0.98	0.17	3,3,3,3	0
85	MG	1	3943	1/1	0.98	0.10	22,22,22,22	0
84	OHX	A	1955	7/7	0.98	0.06	145,148,150,150	0
85	MG	1	4059	1/1	0.98	0.13	32,32,32,32	0
84	OHX	1	3482	7/7	0.98	0.09	116,116,117,117	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	OHX	1	3444	7/7	0.98	0.09	103,104,104,105	0
84	OHX	1	3463	7/7	0.98	0.12	108,109,109,109	0
85	MG	1	3948	1/1	0.98	0.17	46,46,46,46	0
85	MG	6	2102	1/1	0.98	0.17	14,14,14,14	0
85	MG	AS	224	1/1	0.98	0.06	55,55,55,55	0
85	MG	AR	3774	1/1	0.98	0.14	23,23,23,23	0
85	MG	AR	4085	1/1	0.98	0.07	37,37,37,37	0
84	OHX	1	3445	7/7	0.98	0.11	95,95,95,96	0
84	OHX	1	3465	7/7	0.98	0.10	113,114,114,114	0
85	MG	AR	3777	1/1	0.98	0.09	50,50,50,50	0
85	MG	AS	230	1/1	0.98	0.04	67,67,67,67	0
84	OHX	1	3487	7/7	0.98	0.09	139,140,142,142	0
85	MG	s8	302	1/1	0.98	0.13	44,44,44,44	0
84	OHX	1	3446	7/7	0.98	0.11	107,108,109,110	0
84	OHX	6	1942	7/7	0.98	0.07	142,143,144,145	0
85	MG	AR	3781	1/1	0.98	0.19	11,11,11,11	0
85	MG	1	4197	1/1	0.98	0.07	48,48,48,48	0
84	OHX	1	3489	7/7	0.98	0.10	114,115,116,117	0
85	MG	1	3836	1/1	0.98	0.18	17,17,17,17	0
85	MG	1	3837	1/1	0.98	0.22	25,25,25,25	0
85	MG	AR	3937	1/1	0.98	0.18	9,9,9,9	0
85	MG	AR	3786	1/1	0.98	0.05	16,16,16,16	0
84	OHX	1	3467	7/7	0.98	0.09	124,125,126,126	0
84	OHX	1	3519	7/7	0.98	0.13	112,112,113,113	0
84	OHX	AR	3498	7/7	0.98	0.07	143,144,145,146	0
85	MG	1	3841	1/1	0.98	0.16	19,19,19,19	0
84	OHX	1	3433	7/7	0.98	0.13	90,90,90,90	0
84	OHX	1	3469	7/7	0.98	0.11	118,118,119,120	0
85	MG	1	4208	1/1	0.98	0.26	30,30,30,30	0
84	OHX	AR	3440	7/7	0.99	0.08	98,98,98,99	0
85	MG	AR	3848	1/1	0.99	0.12	15,15,15,15	0
84	OHX	6	1911	7/7	0.99	0.10	99,100,100,100	0
84	OHX	6	1912	7/7	0.99	0.07	107,108,110,110	0
84	OHX	6	1913	7/7	0.99	0.10	105,105,106,107	0
84	OHX	1	3451	7/7	0.99	0.07	101,101,102,103	0
84	OHX	6	1915	7/7	0.99	0.09	100,101,102,102	0
84	OHX	AS	201	7/7	0.99	0.10	98,99,100,101	0
84	OHX	AR	3446	7/7	0.99	0.09	99,100,100,101	0
84	OHX	AS	203	7/7	0.99	0.08	118,119,120,120	0
84	OHX	AR	3447	7/7	0.99	0.09	88,88,89,89	0
84	OHX	AR	3448	7/7	0.99	0.09	109,110,110,110	0
84	OHX	AR	3449	7/7	0.99	0.08	98,99,99,100	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	6	1916	7/7	0.99	0.09	102,103,104,104	0
84	OHX	1	3452	7/7	0.99	0.10	111,111,112,113	0
85	MG	DH	203	1/1	0.99	0.09	41,41,41,41	0
84	OHX	1	3415	7/7	0.99	0.09	89,90,90,90	0
84	OHX	1	3416	7/7	0.99	0.12	86,86,86,86	0
84	OHX	AT	202	7/7	0.99	0.15	86,86,87,87	0
84	OHX	AT	203	7/7	0.99	0.15	83,83,83,83	0
84	OHX	AR	3454	7/7	0.99	0.08	120,120,121,121	0
84	OHX	1	3417	7/7	0.99	0.14	97,97,97,97	0
84	OHX	1	3418	7/7	0.99	0.09	85,85,85,85	0
85	MG	1	4143	1/1	0.99	0.07	53,53,53,53	0
84	OHX	1	3457	7/7	0.99	0.09	108,108,109,109	0
85	MG	AR	4017	1/1	0.99	0.10	27,27,27,27	0
84	OHX	AR	3458	7/7	0.99	0.08	100,101,101,102	0
84	OHX	1	3419	7/7	0.99	0.16	93,93,93,93	0
84	OHX	6	1924	7/7	0.99	0.07	123,124,126,127	0
85	MG	AB	202	1/1	0.99	0.08	34,34,34,34	0
85	MG	AR	4171	1/1	0.99	0.06	59,59,59,59	0
84	OHX	A	1984	7/7	0.99	0.06	151,152,153,154	0
84	OHX	1	3420	7/7	0.99	0.14	91,91,92,92	0
84	OHX	AR	3462	7/7	0.99	0.07	106,107,108,108	0
84	OHX	1	3421	7/7	0.99	0.10	84,84,84,84	0
85	MG	1	4022	1/1	0.99	0.09	24,24,24,24	0
84	OHX	1	3422	7/7	0.99	0.13	94,94,94,94	0
84	OHX	AR	3465	7/7	0.99	0.09	100,101,102,102	0
84	OHX	1	3423	7/7	0.99	0.11	91,92,92,92	0
84	OHX	1	3425	7/7	0.99	0.11	93,93,93,93	0
85	MG	AR	4181	1/1	0.99	0.06	37,37,37,37	0
84	OHX	AR	3468	7/7	0.99	0.07	111,112,113,114	0
85	MG	1	4158	1/1	0.99	0.09	29,29,29,29	0
84	OHX	1	3426	7/7	0.99	0.11	93,93,93,94	0
84	OHX	1	3427	7/7	0.99	0.11	87,87,87,87	0
84	OHX	1	3428	7/7	0.99	0.10	96,96,96,96	0
85	MG	1	3906	1/1	0.99	0.21	29,29,29,29	0
85	MG	AR	4188	1/1	0.99	0.05	35,35,35,35	0
85	MG	AR	3747	1/1	0.99	0.19	23,23,23,23	0
84	OHX	1	3429	7/7	0.99	0.09	89,89,90,90	0
84	OHX	1	3430	7/7	0.99	0.10	97,97,97,98	0
84	OHX	1	3431	7/7	0.99	0.11	95,95,95,95	0
85	MG	1	4166	1/1	0.99	0.07	30,30,30,30	0
84	OHX	1	3402	7/7	0.99	0.19	90,90,91,91	0
84	OHX	1	3471	7/7	0.99	0.11	118,118,121,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3403	7/7	0.99	0.19	90,90,90,90	0
85	MG	1	4038	1/1	0.99	0.12	33,33,33,33	0
84	OHX	AR	3478	7/7	0.99	0.07	102,103,103,104	0
84	OHX	1	3404	7/7	0.99	0.15	93,93,93,93	0
84	OHX	1	3405	7/7	0.99	0.22	97,98,98,98	0
84	OHX	1	3436	7/7	0.99	0.09	101,102,104,104	0
85	MG	AR	3903	1/1	0.99	0.20	5,5,5,5	0
84	OHX	1	3437	7/7	0.99	0.10	100,101,102,102	0
85	MG	AR	3761	1/1	0.99	0.06	41,41,41,41	0
84	OHX	1	3438	7/7	0.99	0.09	91,91,92,92	0
84	OHX	CV	201	7/7	0.99	0.15	91,91,91,91	0
84	OHX	1	3439	7/7	0.99	0.09	102,103,103,104	0
84	OHX	1	3406	7/7	0.99	0.17	85,85,85,85	0
84	OHX	DD	102	7/7	0.99	0.12	88,89,89,89	0
85	MG	AR	3767	1/1	0.99	0.04	34,34,34,34	0
84	OHX	AR	3486	7/7	0.99	0.08	118,119,120,121	0
85	MG	1	3924	1/1	0.99	0.36	8,8,8,8	0
84	OHX	1	3401	7/7	0.99	0.20	89,89,90,90	0
84	OHX	1	3408	7/7	0.99	0.08	89,89,89,89	0
85	MG	1	3927	1/1	0.99	0.20	6,6,6,6	0
84	OHX	1	3443	7/7	0.99	0.11	95,95,95,95	0
84	OHX	AR	3490	7/7	0.99	0.06	108,108,109,110	0
84	OHX	A	1901	7/7	0.99	0.17	101,101,102,102	0
84	OHX	A	1902	7/7	0.99	0.13	96,97,97,97	0
85	MG	1	3932	1/1	0.99	0.17	24,24,24,24	0
84	OHX	A	1903	7/7	0.99	0.16	117,118,118,119	0
84	OHX	A	1904	7/7	0.99	0.10	107,107,108,108	0
85	MG	1	3935	1/1	0.99	0.17	24,24,24,24	0
84	OHX	A	1905	7/7	0.99	0.11	102,102,103,103	0
84	OHX	A	1906	7/7	0.99	0.11	112,113,113,113	0
84	OHX	A	1907	7/7	0.99	0.08	117,118,120,121	0
85	MG	6	2113	1/1	0.99	0.27	23,23,23,23	0
85	MG	1	4065	1/1	0.99	0.10	35,35,35,35	0
84	OHX	A	1908	7/7	0.99	0.10	111,111,113,114	0
84	OHX	1	3409	7/7	0.99	0.15	85,85,85,85	0
84	OHX	A	1910	7/7	0.99	0.09	123,125,127,128	0
84	OHX	1	3411	7/7	0.99	0.14	93,93,93,93	0
84	OHX	1	3412	7/7	0.99	0.16	88,88,88,88	0
85	MG	1	4205	1/1	0.99	0.20	26,26,26,26	0
84	OHX	AC	101	7/7	0.99	0.12	89,90,90,90	0
84	OHX	A	1914	7/7	0.99	0.07	109,110,111,112	0
85	MG	AR	4238	1/1	0.99	0.17	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	1	3447	7/7	0.99	0.08	95,95,95,95	0
85	MG	1	4209	1/1	0.99	0.29	22,22,22,22	0
84	OHX	1	3413	7/7	0.99	0.11	88,88,89,89	0
84	OHX	2	201	7/7	0.99	0.11	94,94,94,94	0
84	OHX	6	1901	7/7	0.99	0.20	92,92,92,92	0
84	OHX	1	3414	7/7	0.99	0.11	90,90,90,90	0
84	OHX	6	1903	7/7	0.99	0.16	89,89,90,90	0
84	OHX	AR	3402	7/7	0.99	0.21	89,89,89,89	0
84	OHX	AR	3403	7/7	0.99	0.15	86,86,86,86	0
84	OHX	AR	3404	7/7	0.99	0.14	88,89,89,89	0
85	MG	AR	4095	1/1	0.99	0.13	36,36,36,36	0
85	MG	AS	217	1/1	0.99	0.04	18,18,18,18	0
84	OHX	AR	3405	7/7	0.99	0.18	94,94,94,94	0
84	OHX	AR	3406	7/7	0.99	0.17	86,86,86,86	0
85	MG	AR	3950	1/1	0.99	0.15	41,41,41,41	0
84	OHX	AR	3407	7/7	0.99	0.18	88,88,88,88	0
84	OHX	AR	3408	7/7	0.99	0.14	83,83,83,83	0
84	OHX	AR	3409	7/7	0.99	0.17	92,92,92,92	0
84	OHX	AR	3410	7/7	0.99	0.08	86,86,86,86	0
84	OHX	AR	3411	7/7	0.99	0.15	83,83,83,83	0
85	MG	3	212	1/1	0.99	0.21	27,27,27,27	0
85	MG	AR	4105	1/1	0.99	0.08	41,41,41,41	0
84	OHX	AR	3511	7/7	0.99	0.08	96,96,96,97	0
84	OHX	AR	3412	7/7	0.99	0.11	85,85,85,85	0
85	MG	AR	3959	1/1	0.99	0.12	32,32,32,32	0
84	OHX	AR	3413	7/7	0.99	0.13	84,84,84,84	0
85	MG	6	2144	1/1	0.99	0.08	42,42,42,42	0
84	OHX	AR	3414	7/7	0.99	0.12	90,90,90,90	0
84	OHX	AR	3415	7/7	0.99	0.16	86,86,86,87	0
85	MG	1	4094	1/1	0.99	0.04	43,43,43,43	0
84	OHX	AR	3416	7/7	0.99	0.12	88,88,88,89	0
84	OHX	AR	3418	7/7	0.99	0.09	92,92,93,93	0
84	OHX	A	1938	7/7	0.99	0.07	138,139,140,141	0
85	MG	1	4098	1/1	0.99	0.10	33,33,33,33	0
84	OHX	AR	3419	7/7	0.99	0.09	94,94,95,95	0
84	OHX	AR	3420	7/7	0.99	0.12	87,87,87,87	0
84	OHX	AR	3421	7/7	0.99	0.10	89,89,89,89	0
84	OHX	AR	3422	7/7	0.99	0.11	86,86,86,86	0
85	MG	1	3850	1/1	0.99	0.04	29,29,29,29	0
85	MG	CE	401	1/1	0.99	0.09	30,30,30,30	0
85	MG	s1	301	1/1	0.99	0.10	67,67,67,67	0
84	OHX	AR	3423	7/7	0.99	0.14	85,85,85,85	0

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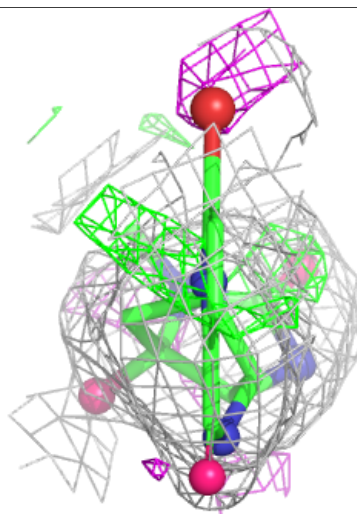
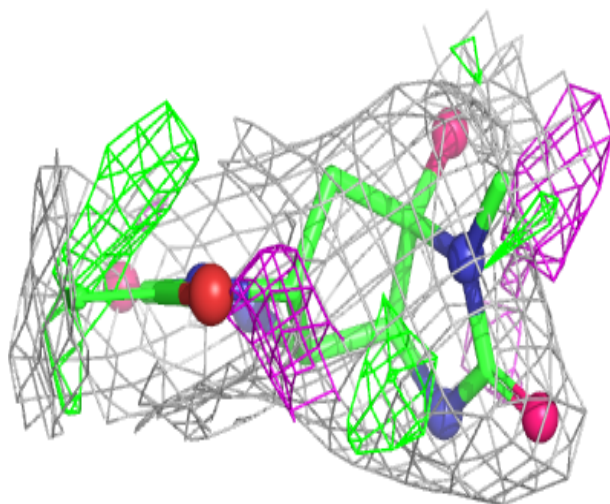
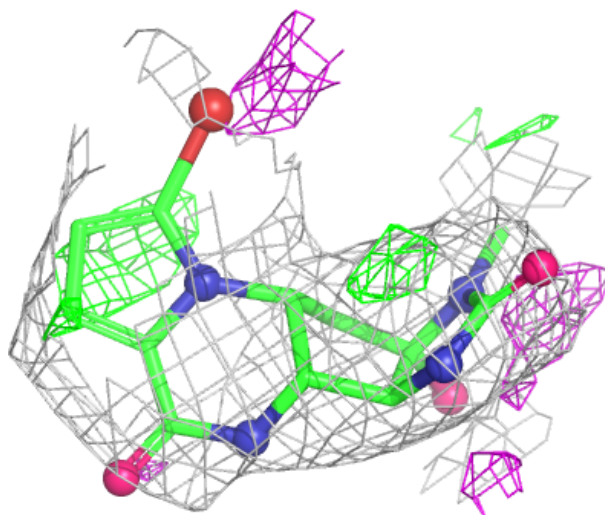
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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
84	OHX	AR	3424	7/7	0.99	0.12	86,87,87,87	0
84	OHX	AR	3425	7/7	0.99	0.09	85,85,85,85	0
84	OHX	6	1905	7/7	0.99	0.14	100,100,101,101	0
84	OHX	AR	3428	7/7	0.99	0.08	97,97,98,98	0
84	OHX	6	1906	7/7	0.99	0.13	94,94,95,95	0
84	OHX	1	3450	7/7	0.99	0.10	116,117,118,118	0
84	OHX	AR	3431	7/7	0.99	0.11	86,86,86,86	0
84	OHX	AR	3432	7/7	0.99	0.10	91,91,91,91	0
84	OHX	6	1908	7/7	0.99	0.13	91,91,91,91	0
84	OHX	AR	3434	7/7	0.99	0.10	87,87,88,88	0
84	OHX	6	1909	7/7	0.99	0.11	103,104,104,104	0
85	MG	1	3863	1/1	0.99	0.22	25,25,25,25	0
84	OHX	AR	3436	7/7	0.99	0.09	87,87,87,87	0
87	ZN	AQ	501	1/1	0.99	0.03	77,77,77,77	0
84	OHX	AR	3437	7/7	0.99	0.09	89,89,89,89	0
87	ZN	DR	501	1/1	0.99	0.02	73,73,73,73	0
87	ZN	b	102	1/1	0.99	0.03	68,68,68,68	0
84	OHX	6	1910	7/7	0.99	0.12	93,93,93,93	0
85	MG	AR	3844	1/1	0.99	0.07	25,25,25,25	0
84	OHX	AR	3439	7/7	0.99	0.09	91,91,92,92	0
87	ZN	d9	103	1/1	0.99	0.04	86,86,86,86	0
85	MG	1	3868	1/1	0.99	0.29	9,9,9,9	0
84	OHX	1	3410	7/7	1.00	0.13	88,88,88,88	0
84	OHX	AR	3417	7/7	1.00	0.11	86,86,86,86	0
87	ZN	DL	103	1/1	1.00	0.01	37,37,37,37	0
87	ZN	DO	201	1/1	1.00	0.02	31,31,31,31	0
84	OHX	AR	3426	7/7	1.00	0.08	88,88,88,89	0
85	MG	1	4193	1/1	1.00	0.19	9,9,9,9	0
85	MG	AR	4189	1/1	1.00	0.04	32,32,32,32	0
85	MG	1	4187	1/1	1.00	0.05	55,55,55,55	0
87	ZN	e	102	1/1	1.00	0.03	74,74,74,74	0
84	OHX	1	3424	7/7	1.00	0.13	92,93,93,93	0
87	ZN	d6	102	1/1	1.00	0.02	59,59,59,59	0
84	OHX	6	1904	7/7	1.00	0.12	96,96,96,96	0
87	ZN	AK	101	1/1	1.00	0.01	38,38,38,38	0
87	ZN	AN	500	1/1	1.00	0.02	43,43,43,43	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.

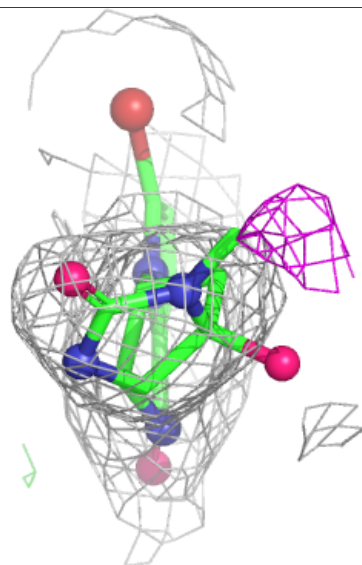
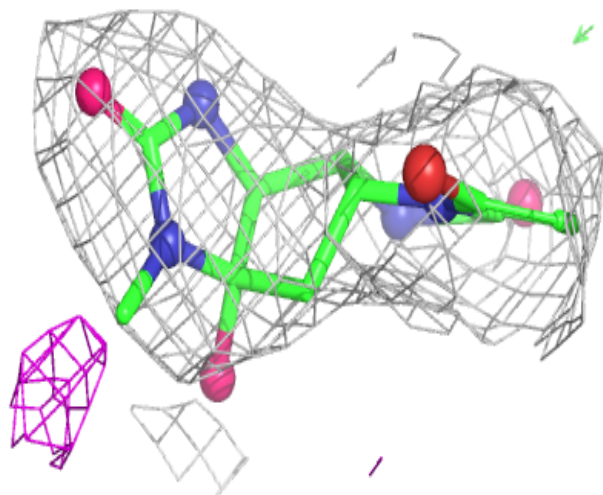
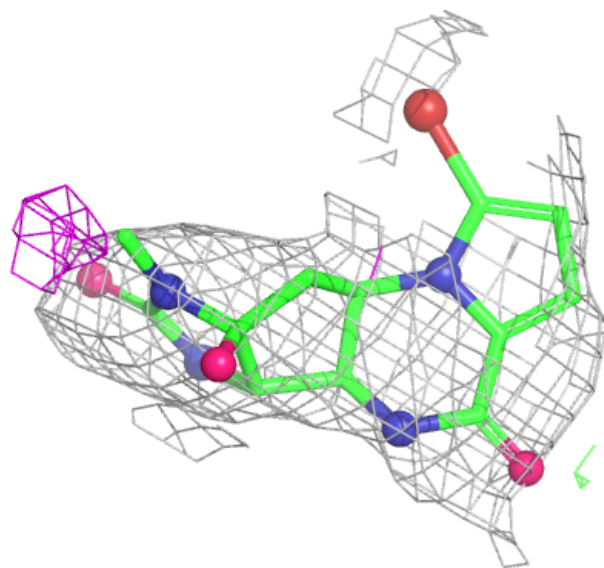
Electron density around 7MB 1 4216:

$2mF_o-DF_c$ (at 0.7 rmsd) in gray
 mF_o-DF_c (at 3 rmsd) in purple (negative)
and green (positive)



Electron density around 7MB AR 4239:

$2mF_o-DF_c$ (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.