



Full wwPDB X-ray Structure Validation Report ⓘ

Mar 6, 2026 – 03:48 PM UTC

PDB ID : 8WV1 / pdb_00008wv1
Title : Ambient Temperature Structure of 50S Ribosomal Subunit from *Thermus Thermophilus*
Authors : DeMirci, H.; Tosun, B.
Deposited on : 2023-10-22
Resolution : 3.99 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
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

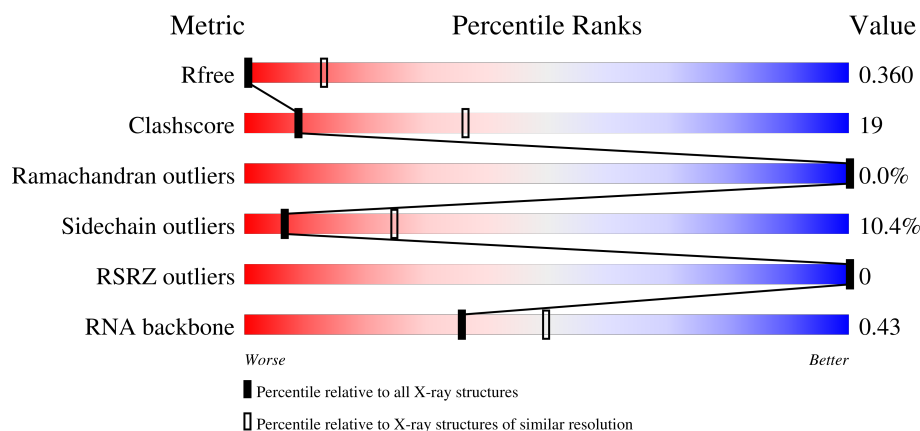
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

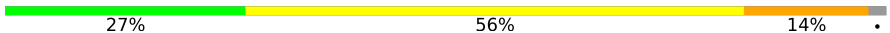
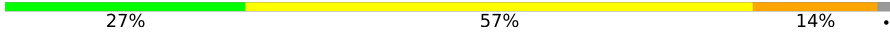
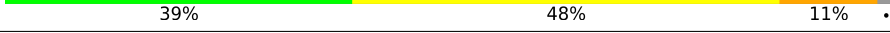
The reported resolution of this entry is 3.99 Å.

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.



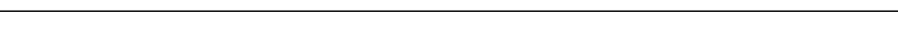
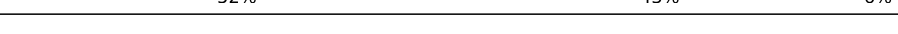
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1082 (4.20-3.80)
Clashscore	190562	1129 (4.20-3.80)
Ramachandran outliers	187476	1064 (4.20-3.80)
Sidechain outliers	187428	1055 (4.20-3.80)
RSRZ outliers	180081	1082 (4.20-3.80)
RNA backbone	3983	1017 (4.84-3.10)

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	A	2915	
1	a	2915	
2	B	122	
2	b	122	

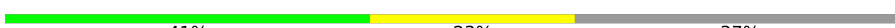
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Mol	Chain	Length	Quality of chain
3	C	276	
3	c	276	
4	D	206	
4	d	206	
5	E	210	
5	e	210	
6	F	182	
6	f	182	
7	G	180	
7	g	180	
8	H	148	
8	h	148	
9	I	140	
9	i	140	
10	J	122	
10	j	122	
11	K	150	
11	k	150	
12	L	141	
12	l	141	
13	M	118	
13	m	118	
14	N	112	
14	n	112	
15	O	146	

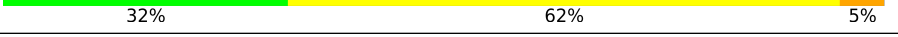
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Mol	Chain	Length	Quality of chain
15	o	146	
16	P	118	
16	p	118	
17	Q	101	
17	q	101	
18	R	113	
18	r	113	
19	S	96	
19	s	96	
20	T	107	
20	t	107	
21	U	206	
21	u	206	
22	V	78	
22	v	78	
23	W	98	
23	w	98	
24	X	72	
24	x	72	
25	Y	60	
25	y	60	
26	Z	71	
26	z	71	
27	0	60	
27	5	60	

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Mol	Chain	Length	Quality of chain
28	13	54	
28	6	54	
29	2	49	
29	7	49	
30	3	65	
30	8	65	
31	4	37	
31	9	37	

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
1	PSU	A	1933	X	-	-	-
1	5MU	A	1937	X	-	-	-
1	PSU	A	1939	X	-	-	-
1	4OC	A	1942	X	-	-	-
1	5MU	A	1961	X	-	-	-
1	5MC	A	1964	X	-	-	-
1	5MC	A	1984	X	-	-	-
1	2MA	A	2515	X	-	-	-
1	2MU	A	2564	X	-	-	-
1	PSU	A	2617	X	-	-	-
1	PSU	a	1933	X	-	-	-
1	5MU	a	1937	X	-	-	-
1	PSU	a	1939	X	-	-	-
1	4OC	a	1942	X	-	-	-
1	5MU	a	1961	X	-	-	-
1	5MC	a	1964	X	-	-	-
1	5MC	a	1984	X	-	-	-
1	2MA	a	2515	X	-	-	-
1	2MU	a	2564	X	-	-	-
1	PSU	a	2617	X	-	-	-

2 Entry composition [i](#)

There are 34 unique types of molecules in this entry. The entry contains 195873 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 23S rRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	A	2871	Total	C	N	O	P	0	0	0
			61845	27529	11569	19877	2870			
1	a	2871	Total	C	N	O	P	0	0	0
			61845	27529	11569	19877	2870			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	B	120	Total	C	N	O	P	0	0	0
			2572	1145	476	832	119			
2	b	120	Total	C	N	O	P	0	0	0
			2572	1145	476	832	119			

- Molecule 3 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	C	275	Total	C	N	O	S	0	0	0
			2131	1346	422	360	3			
3	c	275	Total	C	N	O	S	0	0	0
			2131	1346	422	360	3			

- Molecule 4 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	D	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			
4	d	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			

- Molecule 5 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	E	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			
5	e	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			

- Molecule 6 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	F	181	Total	C	N	O	S	0	0	0
			1426	916	253	253	4			
6	f	181	Total	C	N	O	S	0	0	0
			1426	916	253	253	4			

- Molecule 7 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	G	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
7	g	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

- Molecule 8 is a protein called Large ribosomal subunit protein bL9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	H	73	Total	C	N	O	S	0	0	0
			555	351	101	102	1			
8	h	62	Total	C	N	O	S	0	0	0
			478	303	89	85	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
H	70	GLU	LYS	conflict	UNP P27151
h	70	GLU	LYS	conflict	UNP P27151

- Molecule 9 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	I	140	Total	C	N	O	S	0	0	0
			1121	722	208	187	4			
9	i	140	Total	C	N	O	S	0	0	0
			1121	722	208	187	4			

- Molecule 10 is a protein called Large ribosomal subunit protein uL14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	J	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
10	j	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 11 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	K	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			
11	k	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			

- Molecule 12 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	L	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
12	l	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 13 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	M	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
13	m	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 14 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	N	110	Total	C	N	O	0	0	0
			877	553	175	149			
14	n	110	Total	C	N	O	0	0	0
			877	553	175	149			

- Molecule 15 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	O	131	Total	C	N	O	S	0	0	0
			1091	680	225	185	1			
15	o	131	Total	C	N	O	S	0	0	0
			1091	680	225	185	1			

- Molecule 16 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	P	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			
16	p	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

- Molecule 17 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	Q	101	Total	C	N	O	S	0	0	0
			775	498	141	135	1			
17	q	101	Total	C	N	O	S	0	0	0
			775	498	141	135	1			

- Molecule 18 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	R	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			
18	r	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			

- Molecule 19 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	S	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			
19	s	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

- Molecule 20 is a protein called Large ribosomal subunit protein uL24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	T	107	Total	C	N	O	S	0	0	0
			810	520	153	131	6			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	t	107	Total	C	N	O	S	0	0	0
			810	520	153	131	6			

- Molecule 21 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	U	203	Total	C	N	O	S	0	0	0
			1587	1011	282	292	2			
21	u	200	Total	C	N	O	S	0	0	0
			1560	995	278	285	2			

- Molecule 22 is a protein called Large ribosomal subunit protein bL27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	V	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			
22	v	77	Total	C	N	O	S	0	0	0
			608	375	129	103	1			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
V	11	ARG	LYS	conflict	UNP A0A1J1EPZ8
v	11	ARG	LYS	conflict	UNP A0A1J1EPZ8

- Molecule 23 is a protein called Large ribosomal subunit protein bL28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	W	97	Total	C	N	O	S	0	0	0
			754	475	148	130	1			
23	w	97	Total	C	N	O	S	0	0	0
			754	475	148	130	1			

- Molecule 24 is a protein called Large ribosomal subunit protein uL29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	X	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			
24	x	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			

- Molecule 25 is a protein called 50S ribosomal protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	Y	59	Total	C	N	O	0	0	0
			469	298	90	81			
25	y	59	Total	C	N	O	0	0	0
			469	298	90	81			

- Molecule 26 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	Z	45	Total	C	N	O	S	0	0	0
			344	221	56	62	5			
26	z	50	Total	C	N	O	S	0	0	0
			385	248	63	69	5			

- Molecule 27 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	0	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
27	5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 28 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	13	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
28	6	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			

- Molecule 29 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	2	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
29	7	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 30 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	3	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	8	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 31 is a protein called 50S ribosomal protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	4	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
31	9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 32 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
32	A	1382	Total	Mg	0	0
			1382	1382		
32	B	37	Total	Mg	0	0
			37	37		
32	C	44	Total	Mg	0	0
			44	44		
32	D	8	Total	Mg	0	0
			8	8		
32	E	30	Total	Mg	0	0
			30	30		
32	F	5	Total	Mg	0	0
			5	5		
32	G	1	Total	Mg	0	0
			1	1		
32	H	8	Total	Mg	0	0
			8	8		
32	I	12	Total	Mg	0	0
			12	12		
32	J	9	Total	Mg	0	0
			9	9		
32	K	22	Total	Mg	0	0
			22	22		
32	L	9	Total	Mg	0	0
			9	9		
32	M	4	Total	Mg	0	0
			4	4		
32	O	10	Total	Mg	0	0
			10	10		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
32	P	7	Total 7	Mg 7	0	0
32	Q	10	Total 10	Mg 10	0	0
32	R	19	Total 19	Mg 19	0	0
32	S	9	Total 9	Mg 9	0	0
32	T	17	Total 17	Mg 17	0	0
32	U	11	Total 11	Mg 11	0	0
32	V	5	Total 5	Mg 5	0	0
32	W	15	Total 15	Mg 15	0	0
32	X	16	Total 16	Mg 16	0	0
32	Y	1	Total 1	Mg 1	0	0
32	0	7	Total 7	Mg 7	0	0
32	13	2	Total 2	Mg 2	0	0
32	2	11	Total 11	Mg 11	0	0
32	3	2	Total 2	Mg 2	0	0
32	a	1614	Total 1614	Mg 1614	0	0
32	b	21	Total 21	Mg 21	0	0
32	c	33	Total 33	Mg 33	0	0
32	d	25	Total 25	Mg 25	0	0
32	e	37	Total 37	Mg 37	0	0
32	f	4	Total 4	Mg 4	0	0
32	g	9	Total 9	Mg 9	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
32	h	18	Total 18	Mg 18	0	0
32	i	26	Total 26	Mg 26	0	0
32	j	21	Total 21	Mg 21	0	0
32	k	20	Total 20	Mg 20	0	0
32	l	16	Total 16	Mg 16	0	0
32	m	19	Total 19	Mg 19	0	0
32	n	7	Total 7	Mg 7	0	0
32	o	31	Total 31	Mg 31	0	0
32	p	16	Total 16	Mg 16	0	0
32	q	30	Total 30	Mg 30	0	0
32	r	28	Total 28	Mg 28	0	0
32	s	10	Total 10	Mg 10	0	0
32	t	4	Total 4	Mg 4	0	0
32	u	25	Total 25	Mg 25	0	0
32	v	11	Total 11	Mg 11	0	0
32	w	10	Total 10	Mg 10	0	0
32	x	11	Total 11	Mg 11	0	0
32	y	9	Total 9	Mg 9	0	0
32	z	4	Total 4	Mg 4	0	0
32	5	7	Total 7	Mg 7	0	0
32	6	6	Total 6	Mg 6	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
32	7	7	Total 7	Mg 7	0	0
32	8	12	Total 12	Mg 12	0	0
32	9	3	Total 3	Mg 3	0	0

- Molecule 33 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
33	T	1	Total 1	Zn 1	0	0
33	Z	1	Total 1	Zn 1	0	0
33	0	1	Total 1	Zn 1	0	0
33	13	1	Total 1	Zn 1	0	0
33	4	1	Total 1	Zn 1	0	0
33	t	1	Total 1	Zn 1	0	0
33	z	1	Total 1	Zn 1	0	0
33	5	1	Total 1	Zn 1	0	0
33	6	1	Total 1	Zn 1	0	0
33	9	1	Total 1	Zn 1	0	0

- Molecule 34 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
34	A	3514	Total 3514	O 3514	0	0
34	B	142	Total 142	O 142	0	0
34	C	84	Total 84	O 84	0	0
34	D	37	Total 37	O 37	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
34	E	62	Total 62	O 62	0	0
34	F	16	Total 16	O 16	0	0
34	H	2	Total 2	O 2	0	0
34	I	52	Total 52	O 52	0	0
34	J	16	Total 16	O 16	0	0
34	K	46	Total 46	O 46	0	0
34	L	20	Total 20	O 20	0	0
34	M	13	Total 13	O 13	0	0
34	O	20	Total 20	O 20	0	0
34	P	24	Total 24	O 24	0	0
34	Q	4	Total 4	O 4	0	0
34	R	43	Total 43	O 43	0	0
34	S	19	Total 19	O 19	0	0
34	T	28	Total 28	O 28	0	0
34	U	26	Total 26	O 26	0	0
34	V	24	Total 24	O 24	0	0
34	W	61	Total 61	O 61	0	0
34	X	28	Total 28	O 28	0	0
34	Y	8	Total 8	O 8	0	0
34	0	3	Total 3	O 3	0	0
34	13	13	Total 13	O 13	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
34	2	26	Total 26	O 26	0	0
34	3	3	Total 3	O 3	0	0
34	a	4732	Total 4732	O 4732	0	0
34	b	78	Total 78	O 78	0	0
34	c	74	Total 74	O 74	0	0
34	d	94	Total 94	O 94	0	0
34	e	81	Total 81	O 81	0	0
34	f	12	Total 12	O 12	0	0
34	g	6	Total 6	O 6	0	0
34	h	19	Total 19	O 19	0	0
34	i	49	Total 49	O 49	0	0
34	j	75	Total 75	O 75	0	0
34	k	30	Total 30	O 30	0	0
34	l	68	Total 68	O 68	0	0
34	m	38	Total 38	O 38	0	0
34	n	9	Total 9	O 9	0	0
34	o	79	Total 79	O 79	0	0
34	p	51	Total 51	O 51	0	0
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34	s	32	Total 32	O 32	0	0

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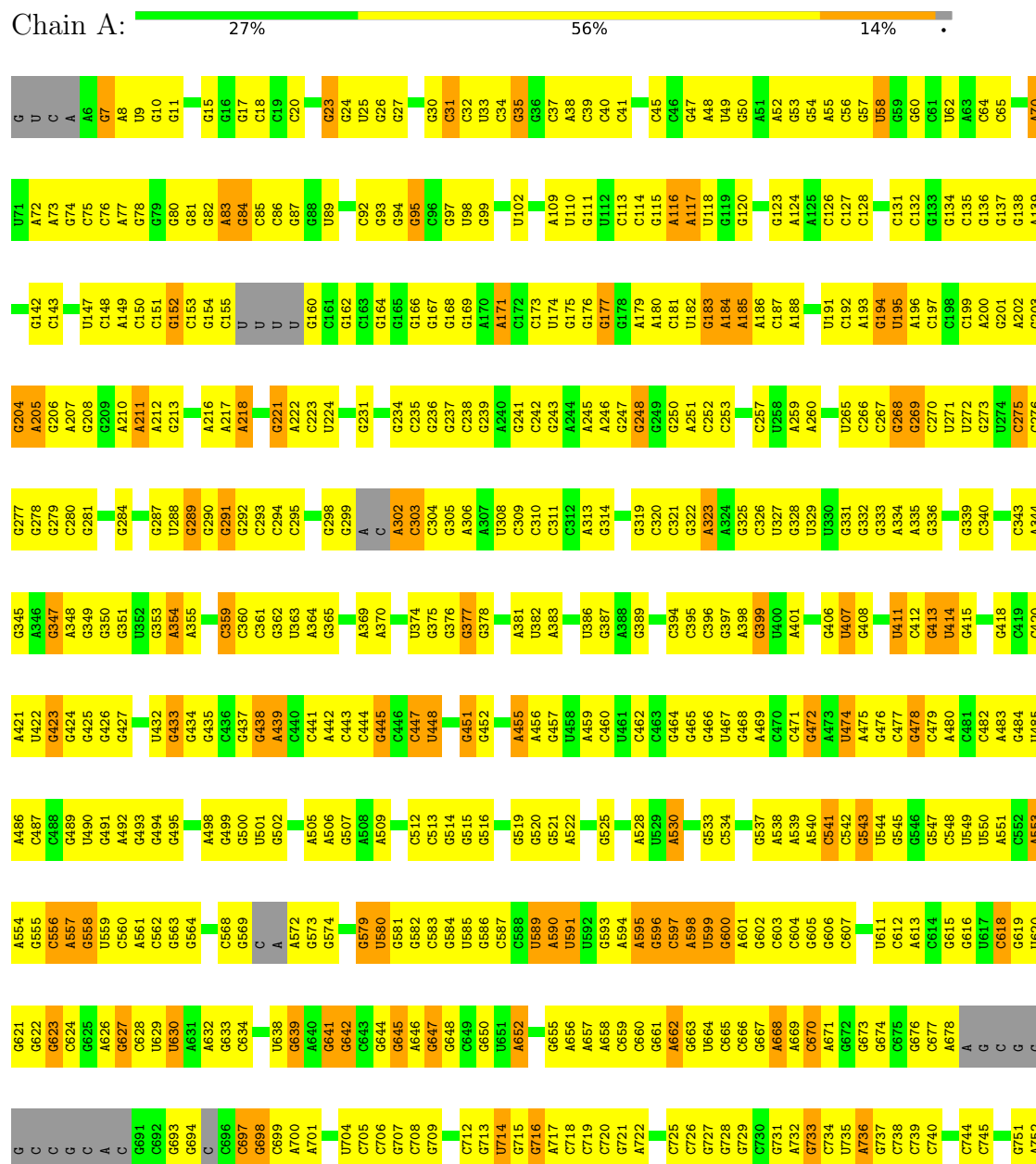
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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
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34	u	80	Total 80	O 80	0	0
34	v	46	Total 46	O 46	0	0
34	w	32	Total 32	O 32	0	0
34	x	43	Total 43	O 43	0	0
34	y	20	Total 20	O 20	0	0
34	5	10	Total 10	O 10	0	0
34	6	16	Total 16	O 16	0	0
34	7	11	Total 11	O 11	0	0
34	8	15	Total 15	O 15	0	0
34	9	10	Total 10	O 10	0	0

3 Residue-property plots

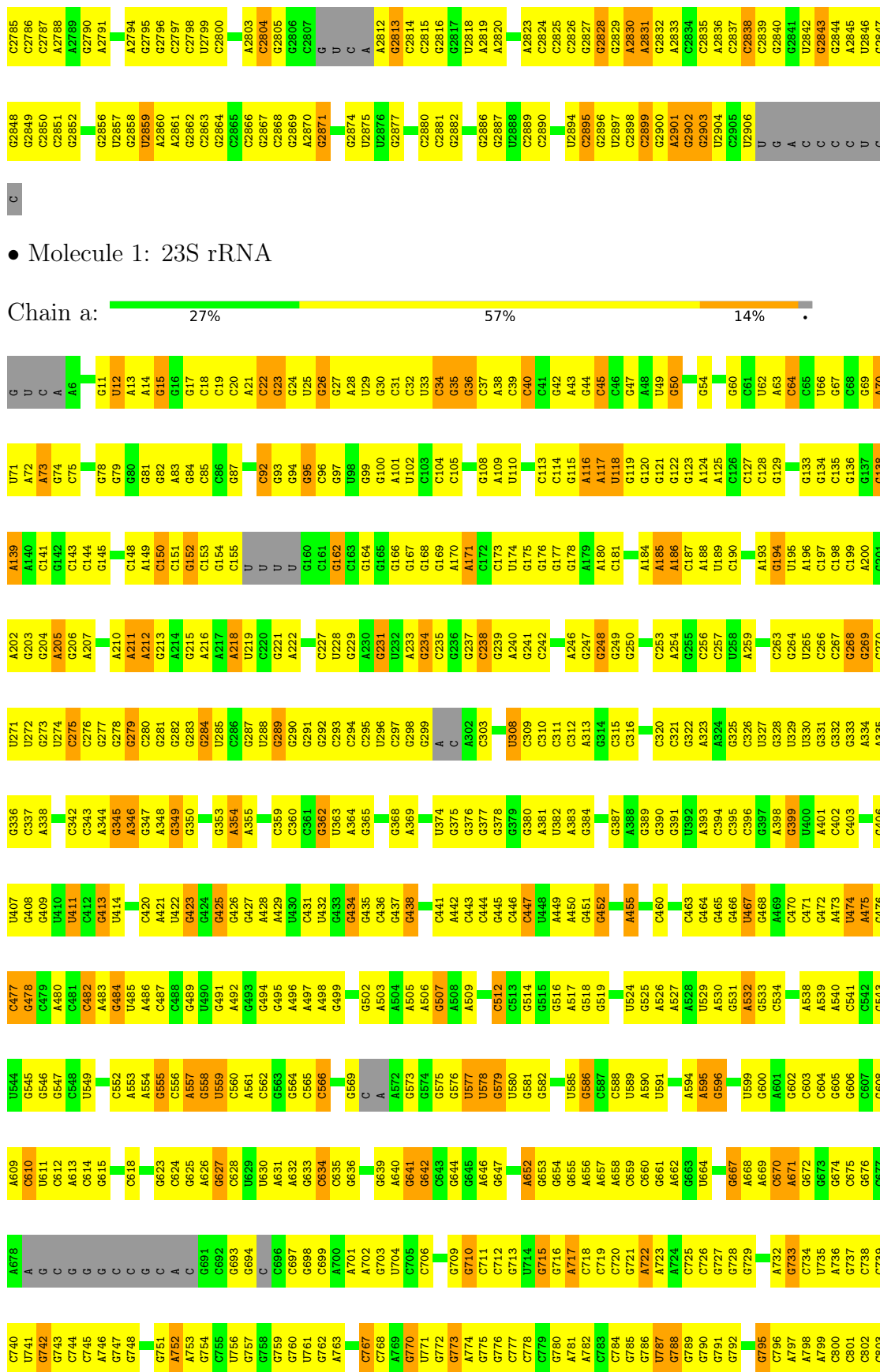
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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: 23S rRNA



A1736	A1680	C1594	C1514	G1446	U1375	A1311	G1238	C1169	G1102	G1035	A963	G895	A829	A753
A1737	G1685	C1595	C1515	G1447	C1376	G1312	G1241	C1170	A1103	A1036	A964	A896	A830	G754
U1739	G1686	C1596	G1517	C1448	A1377	U1313	C1241	C1171	G1104	G1039	G966	C897	A831	C755
U1740	G1670	C1597	G1518	C1449	A1378	A1314	U1244	A1172	G1105	G1040	G967	U898	G832	U756
G1743	U1675	A1601	A1519	C1451	G1380	C1315	G1245	A1173	U1106	C1041	U968	G900	G834	A763
G1744	G1676	C1603	G1520	U1451	G1381	C1317	G1246	A1174	U1107	A1042	C969	G901	A835	G764
A1745	C1677	C1604	C1521	C1452	U1381	A1318	C1247	A1175	G1108	G1046	G976	G902	A836	A765
G1746	A1678	A1605	G1525	C1454	G1382	U1319	G1248	U1176	G1109	A1047	G977	C903	G837	G766
A1747	G1679	G1606	G1526	G1456	G1385	A1321	U1250	U1179	C1110	G1048	G978	G906	G838	C767
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U1753	G1678	C1612	G1537	C1462	G1394	G1327	G1261	U1186	C1118	C1054	U988	G912	G845	C912
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A1701	G1628	A1628	A1412	C1477	A1411	C1341	G1281	C1207	A1142	A1067	G1001	G927	C859	G790
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C1703	A1630	C1534	A1411	C1478	A1412	C1343	G1282	G1209	U1147	G1071	U1003	G929	C861	C792
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C1637	C1561	U1562	G1423	A1491	G1423	C1353	A1287	G1217	C1153	G1086	C1017	G938	C870	C800
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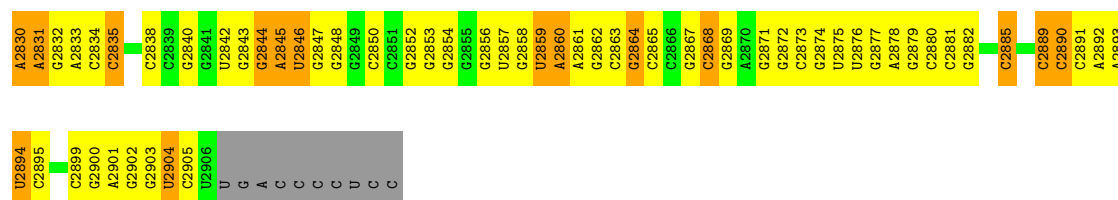
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• Molecule 1: 23S rRNA

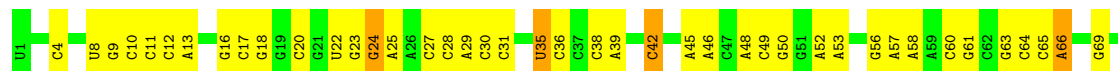


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C2563	C2564	C2565	C2566	C2567	C2568	C2569	C2570	C2571	C2572	A2573	C2574	C2575	C2576	C2577	A2578	C2579	C2580	C2581	C2582	C2583	C2584	C2585	C2586	C2587	C2588	C2589	C2590	C2591	C2592	C2593	C2594	C2595	C2596	C2597	C2598	C2599	C2600	C2601	C2602	C2603	C2604	C2605	C2611	C2612	C2613	C2614	C2615	C2616	C2617	C2618	C2619	C2620	C2621	C2622	C2623	C2624	C2625	C2626	C2627	C2628	C2629	C2630	C2631								
C2634	C2635	C2636	C2637	C2638	C2639	C2640	C2641	C2642	C2643	C2644	C2645	C2646	C2647	C2648	C2649	C2650	C2651	C2652	C2653	C2654	C2655	C2656	C2657	C2658	C2659	C2660	C2661	C2662	C2663	C2664	C2665	C2666	C2667	C2668	C2669	C2670	C2671	C2672	C2673	C2674	C2675	C2676	C2679	C2683	C2684	C2685	C2686	C2687	C2688	C2689	C2690	C2691	C2692	C2693	C2694	C2695	C2696	C2697	C2698	C2699	C2700	C2701	C2702								
C2295	C2296	C2297	A2298	C2299	C2300	C2301	C2302	C2303	C2304	C2305	C2306	C2307	C2315	C2316	A2317	C2318	C2319	C2320	A2321	A2322	A2323	U2324	C2325	C2326	C2327	C2328	C2329	C2330	C2331	C2332	C2333	C2334	C2335	C2336	C2337	C2338	A2339	A2340	A2341	C2342	C2343	C2344	C2345	C2346	A2347	A2348	C2351	C2352	C2353	C2354	C2355	C2356	C2357	C2358	C2359	C2360	C2361														
G2232	C2233	A2237	C2238	C2239	C2240	C2241	C2242	C2243	C2244	C2245	C2246	C2247	C2248	C2249	C2250	C2251	C2252	C2253	C2254	C2255	C2256	C2257	C2258	C2259	C2260	C2261	C2262	G	C2264	C2265	C2266	C2267	C2268	C2269	C2270	C2271	C2272	C2273	C2274	C2275	C2276	C2277	C2278	C2279	C2280	C2281	C2282	C2283	C2284	C2285	C2286	C2287	C2288	C2289	C2290	C2291	C2292	C2293	C2294												
C2160	C2161	C2162	C2163	C2164	C2165	C2166	C2167	C2168	C2169	C2170	C2171	C2172	C2173	C2174	C2175	C2176	C2177	C2178	C2179	C2180	C2181	C2182	C2183	C2184	C2185	C2186	C2187	C2188	C2189	C2190	C2191	C2192	C2193	C2194	C2195	C2196	C2197	C2198	C2199	C2200	C2201	C2202	C2203	C2204	C2205	C2206	C2207	C2208	C2209	C2210	C2211	C2212	C2213	C2214	C2215	C2216	C2217	C2218	C2219	C2220	C2221	C2222	C2223	C2224	C2225	C2226	C2227	C2228	C2229	C2230	C2231
C2095	C2096	C2097	C2100	C2101	C2102	C2103	C2104	C2105	C2106	C2107	C2108	C2109	C2110	C2111	C2112	C2113	C2114	C2115	C2116	C2117	C2118	C2119	C2120	C2121	C2122	C2123	C2124	C2125	C2126	C2127	C2128	C2129	C2130	C2131	C2132	C2133	C2136	C2137	C2138	C2139	C2140	C2141	C2142	C2143	C2144	C2145	C2146	C2147	C2148	C2149	C2152	C2153	C2154	C2155	C2156	C2159															
C2029	C2030	C2031	C2032	C2033	C2034	C2035	C2036	C2037	C2038	C2039	C2040	C2041	C2042	C2043	C2044	C2045	C2046	C2047	C2048	C2049	C2050	C2051	C2052	C2053	C2054	C2055	C2056	C2057	C2058	C2059	C2060	C2061	C2062	C2063	C2068	C2069	C2070	C2071	C2072	C2073	C2074	C2075	C2076	C2077	C2080	C2081	C2082	C2083	C2084	C2085	C2086	C2087	C2091	C2092	C2093	C2094															
A1885	G1886	G1887	G1888	G1889	A1890	G1891	U1895	C1896	C1897	G1898	C1899	C1900	C1903	C1904	C1905	C1906	C1907	C1908	C1909	C1910	C1911	C1912	C1913	C1914	C1915	C1918	C1922	C1929	C1930	C1931	C1932	C1933	C1934	C1935	C1936	C1937	C1938	C1939	C1940	C1941	C1942	C1943	C1944	C1945	C1946	C1949	C1950	C1951	C1952	C1957	C1958	C1959	C1962																		
A1815	C1818	C1819	C1820	C1821	C1822	C1823	C1824	C1825	C1826	C1827	C1828	C1829	C1830	C1831	C1832	C1833	C1834	C1835	C1836	C1839	C1844	C1845	C1846	C1847	C1848	C1849	C1850	C1851	C1852	C1853	C1854	C1855	C1856	C1857	C1858	C1859	C1860	C1861	C1862	C1863	C1864	C1865	C1866	C1867	C1868	C1869	C1870	C1873	C1878	C1879	C1880	C1881	C1884																		



• Molecule 2: 5S rRNA

Chain B: 41% 50% 7% .



• Molecule 2: 5S rRNA

Chain b: 39% 48% 11% .



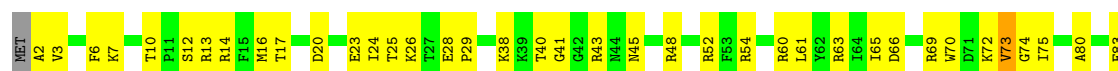
• Molecule 3: 50S ribosomal protein L2

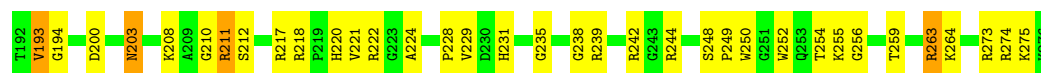
Chain C: 61% 37% .



• Molecule 3: 50S ribosomal protein L2

Chain c: 61% 36% .





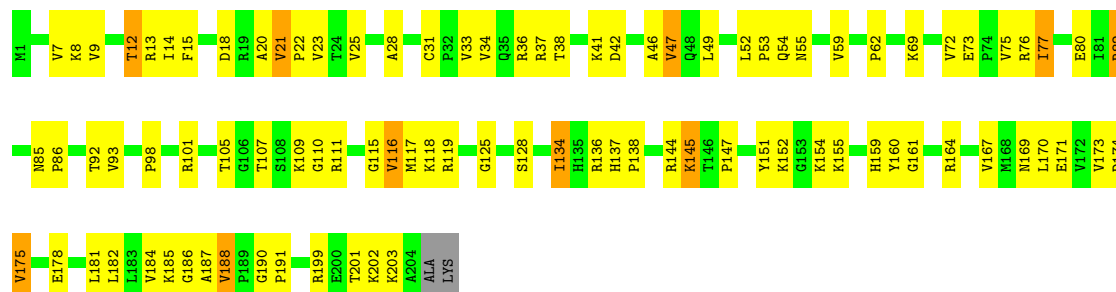
• Molecule 4: 50S ribosomal protein L3

Chain D: 55% 39% 5% •



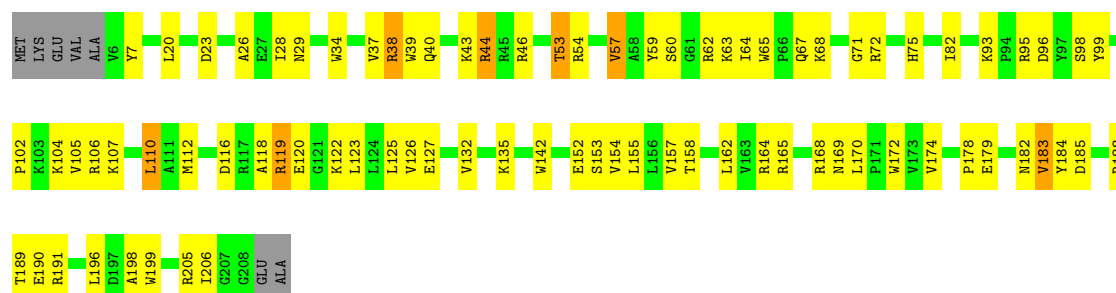
• Molecule 4: 50S ribosomal protein L3

Chain d: 54% 40% 5% •



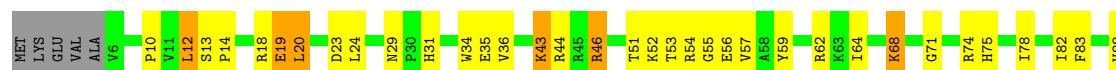
• Molecule 5: 50S ribosomal protein L4

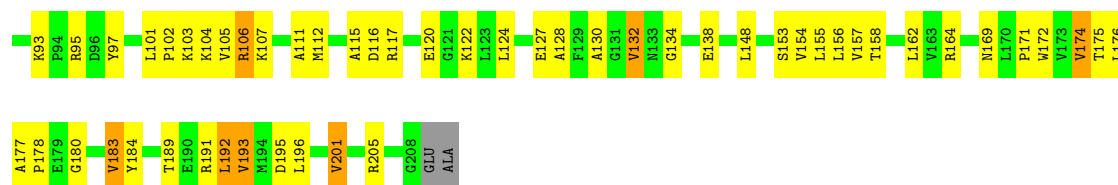
Chain E: 58% 36% 6% •



• Molecule 5: 50S ribosomal protein L4

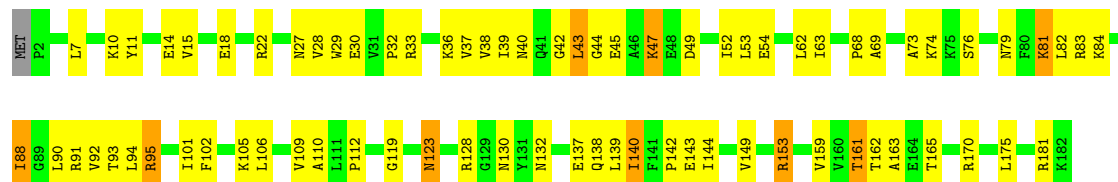
Chain e: 55% 35% 6% •





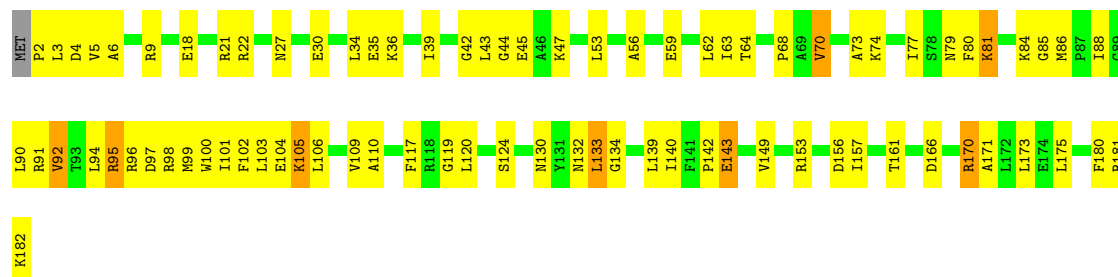
- Molecule 6: 50S ribosomal protein L5

Chain F: 58% 36% 5% .



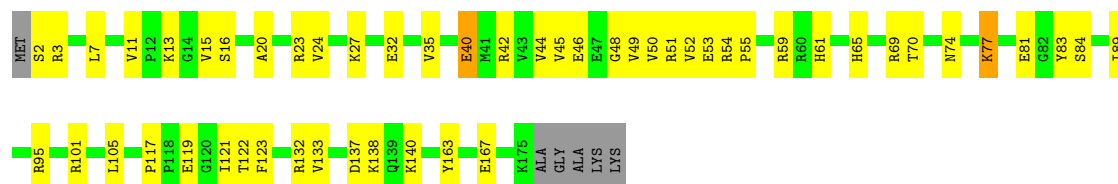
- Molecule 6: 50S ribosomal protein L5

Chain f: 55% 40% . .



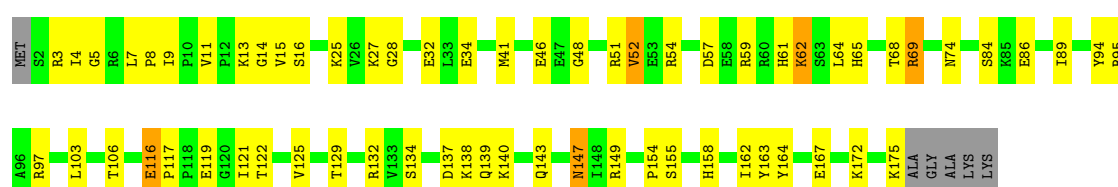
- Molecule 7: 50S ribosomal protein L6

Chain G: 68% 28% . .



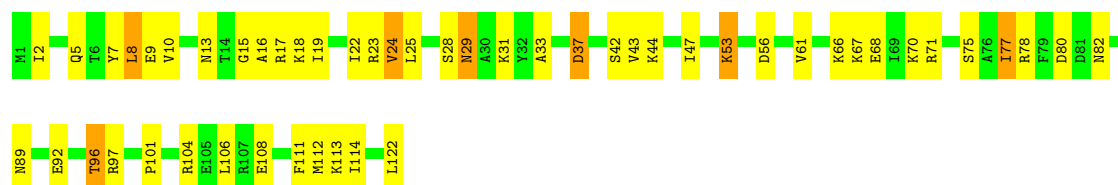
- Molecule 7: 50S ribosomal protein L6

Chain g: 61% 33% . .



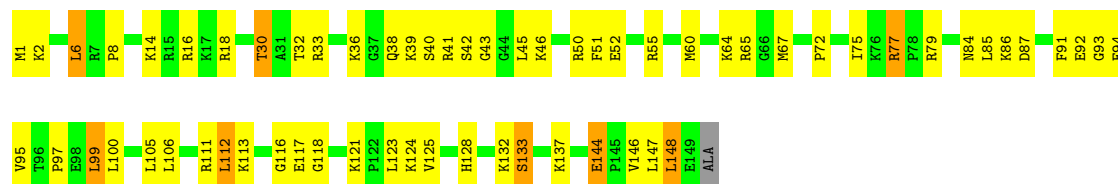
- Molecule 10: Large ribosomal subunit protein uL14

Chain j: 



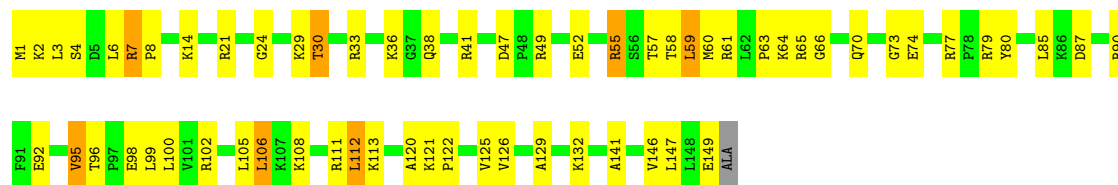
- Molecule 11: 50S ribosomal protein L15

Chain K: 



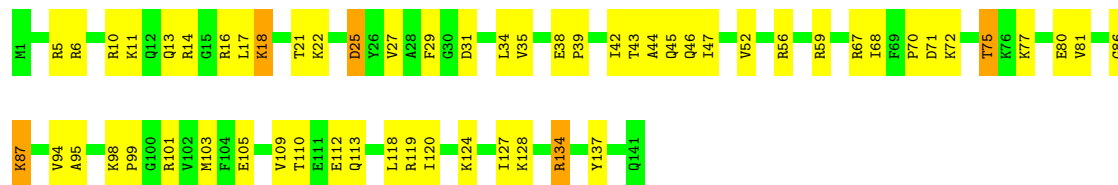
- Molecule 11: 50S ribosomal protein L15

Chain k: 



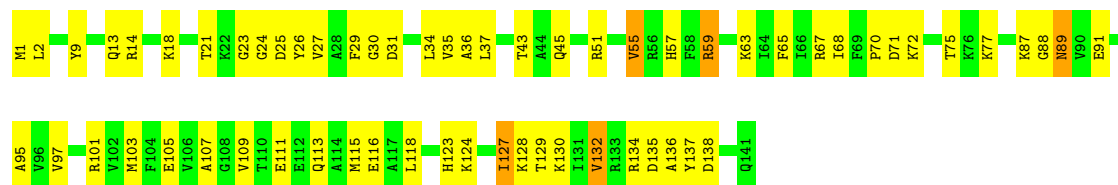
- Molecule 12: 50S ribosomal protein L16

Chain L: 

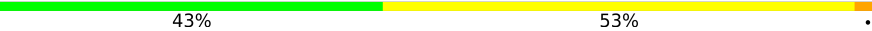


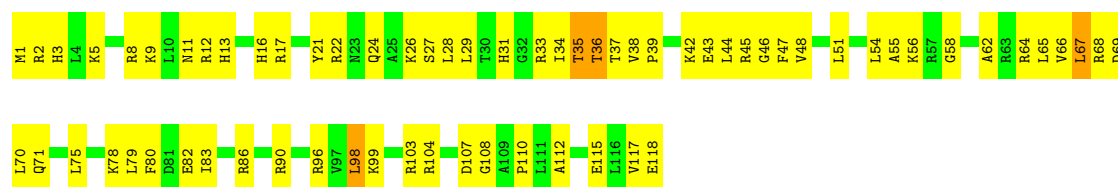
- Molecule 12: 50S ribosomal protein L16

Chain l: 



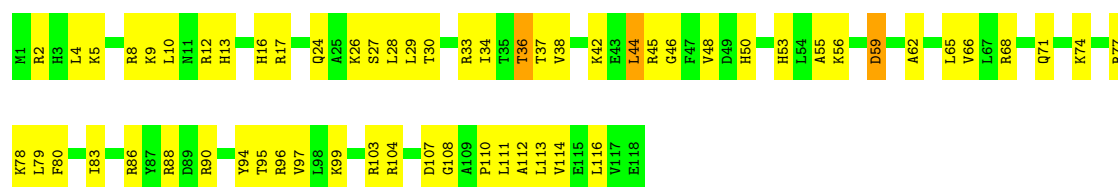
- Molecule 13: 50S ribosomal protein L17

Chain M: 



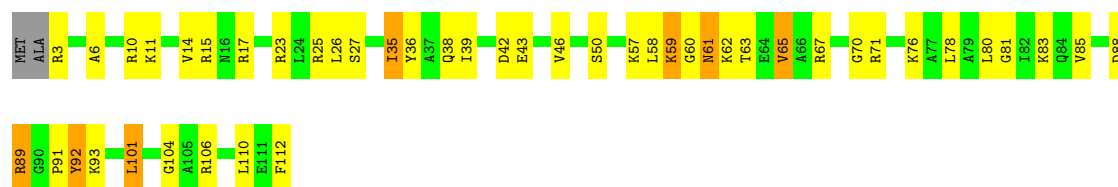
- Molecule 13: 50S ribosomal protein L17

Chain m: 



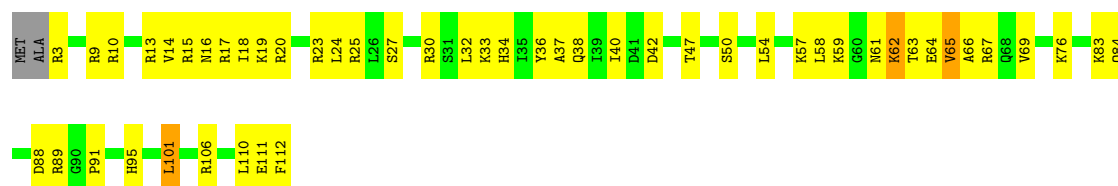
- Molecule 14: 50S ribosomal protein L18

Chain N: 

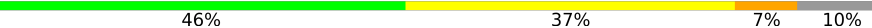


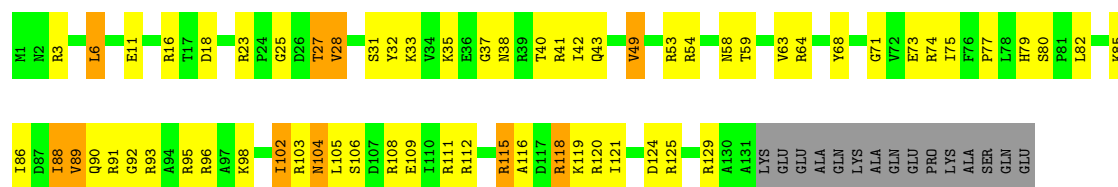
- Molecule 14: 50S ribosomal protein L18

Chain n: 



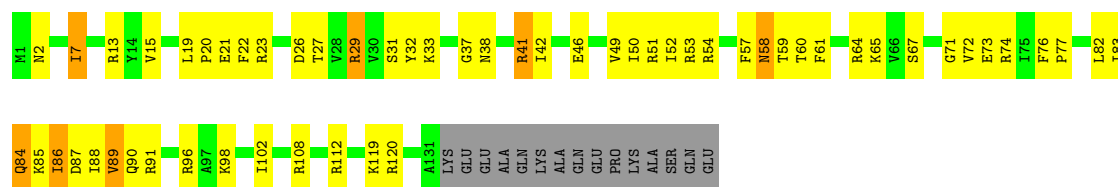
- Molecule 15: 50S ribosomal protein L19

Chain O: 



- Molecule 15: 50S ribosomal protein L19

Chain o: 



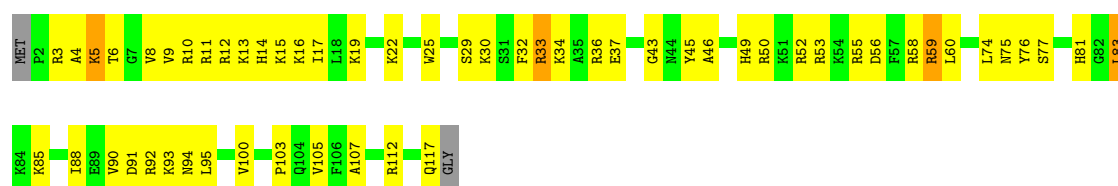
- Molecule 16: 50S ribosomal protein L20

Chain P: 



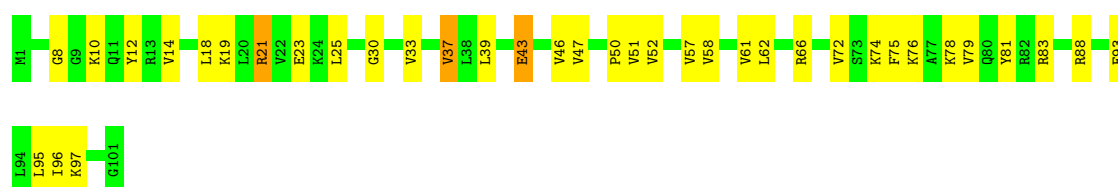
- Molecule 16: 50S ribosomal protein L20

Chain p: 



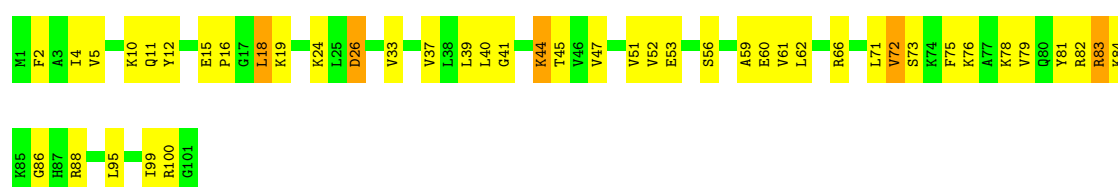
- Molecule 17: 50S ribosomal protein L21

Chain Q: 



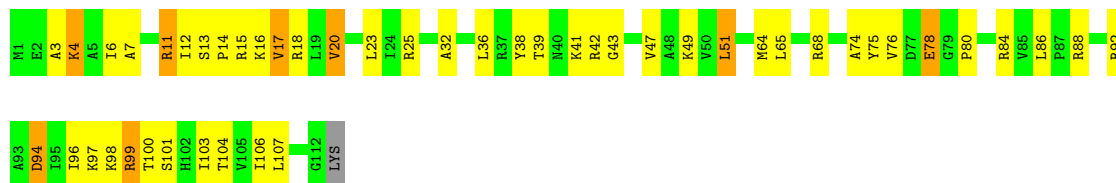
- Molecule 17: 50S ribosomal protein L21

Chain q: 



- Molecule 18: 50S ribosomal protein L22

Chain R:  57% 35% 7%



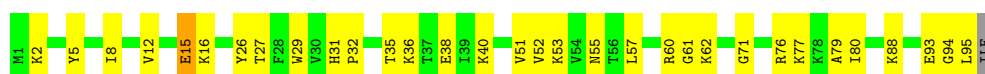
- Molecule 18: 50S ribosomal protein L22

Chain r:  61% 34% 5%



- Molecule 19: 50S ribosomal protein L23

Chain S:  66% 32% 2%



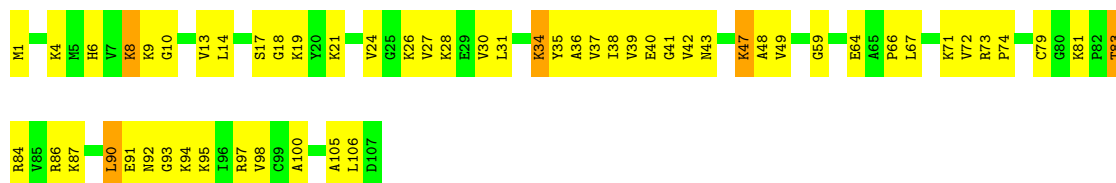
- Molecule 19: 50S ribosomal protein L23

Chain s:  60% 35% 5%



- Molecule 20: Large ribosomal subunit protein uL24

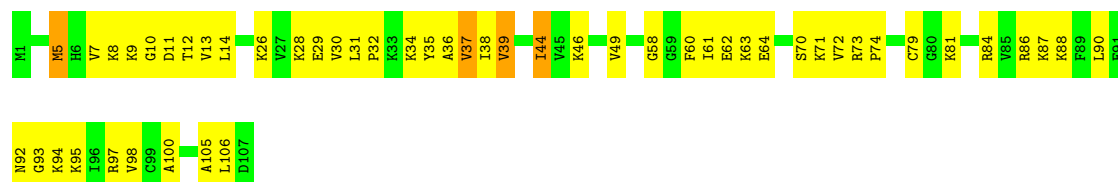
Chain T:  48% 48% 5%



- Molecule 20: Large ribosomal subunit protein uL24

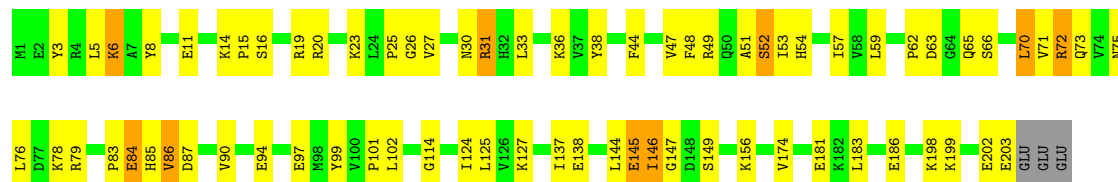
Chain t:  52% 44% 4%





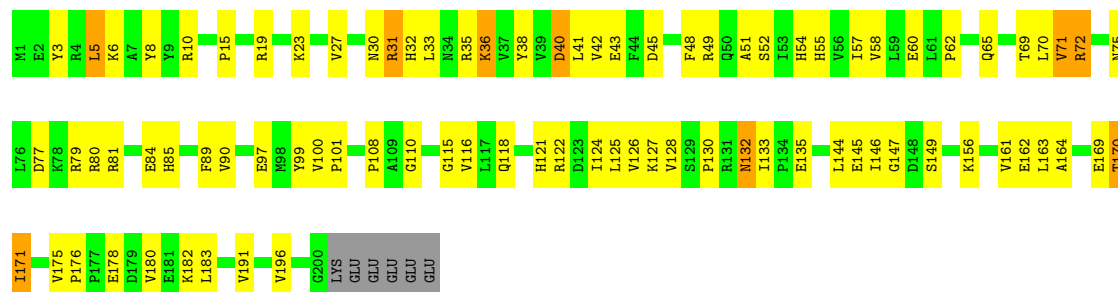
- Molecule 21: 50S ribosomal protein L25

Chain U: 64% 31% ..



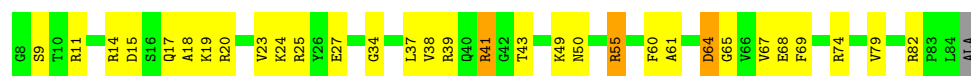
- Molecule 21: 50S ribosomal protein L25

Chain u: 55% 37% ..



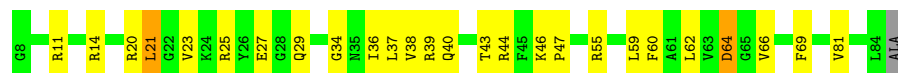
- Molecule 22: Large ribosomal subunit protein bL27

Chain V: 59% 36% ..



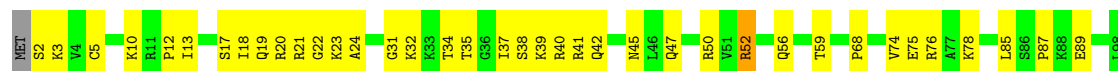
- Molecule 22: Large ribosomal subunit protein bL27

Chain v: 65% 31% ..

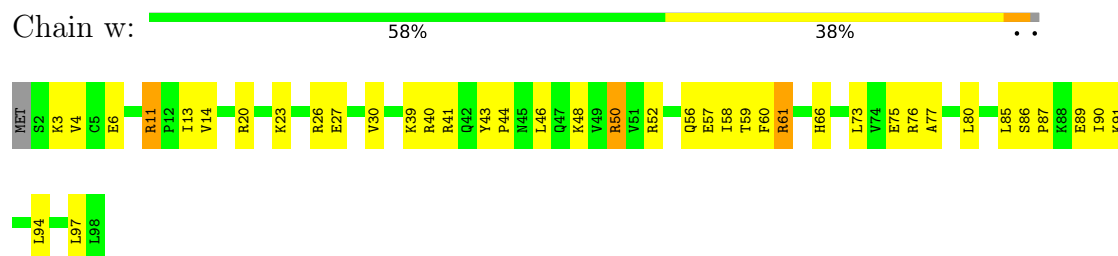


- Molecule 23: Large ribosomal subunit protein bL28

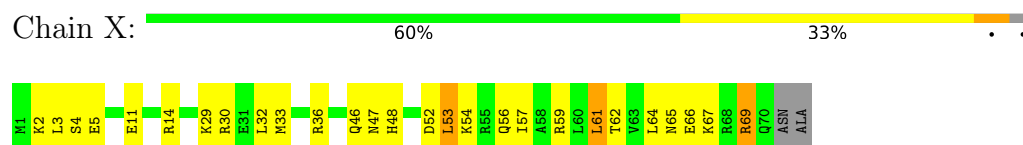
Chain W: 60% 38% ..



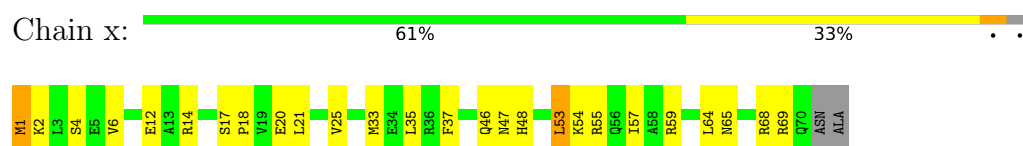
- Molecule 23: Large ribosomal subunit protein bL28



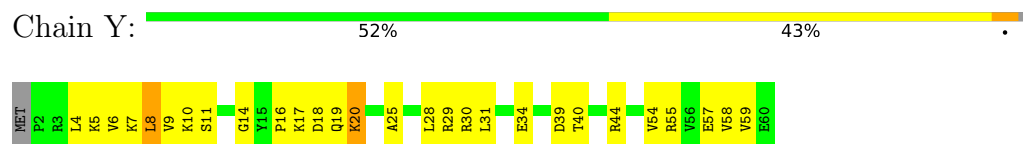
- Molecule 24: Large ribosomal subunit protein uL29



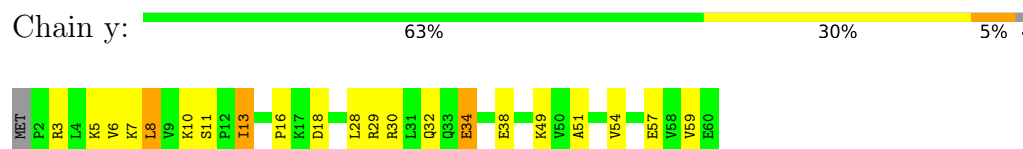
- Molecule 24: Large ribosomal subunit protein uL29



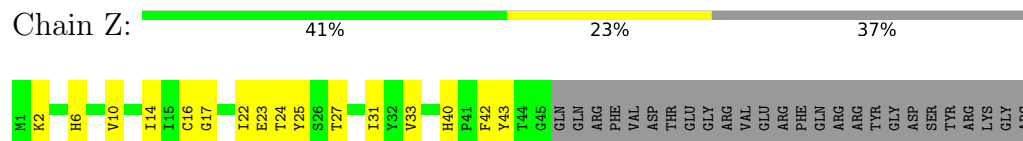
- Molecule 25: 50S ribosomal protein L30



- Molecule 25: 50S ribosomal protein L30

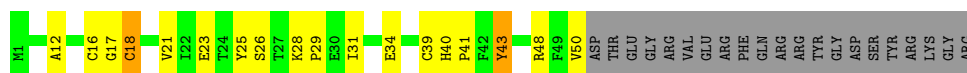


- Molecule 26: 50S ribosomal protein L31



- Molecule 26: 50S ribosomal protein L31





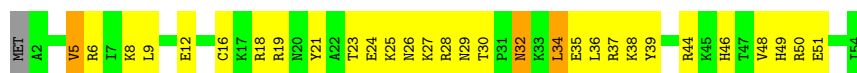
- Molecule 27: 50S ribosomal protein L32



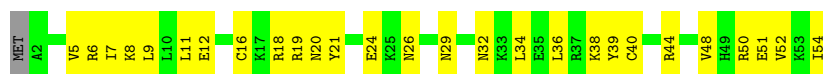
- Molecule 27: 50S ribosomal protein L32



- Molecule 28: 50S ribosomal protein L33



- Molecule 28: 50S ribosomal protein L33



- Molecule 29: 50S ribosomal protein L34

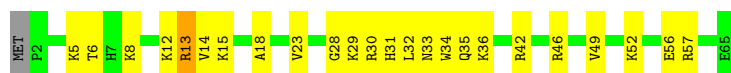


- Molecule 29: 50S ribosomal protein L34



- Molecule 30: 50S ribosomal protein L35





- Molecule 30: 50S ribosomal protein L35



- Molecule 31: 50S ribosomal protein L36



- Molecule 31: 50S ribosomal protein L36



4 Data and refinement statistics

Property	Value	Source
Space group	P 41	Depositor
Cell constants a, b, c, α , β , γ	303.80Å 303.80Å 434.80Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	30.00 – 3.99 30.00 – 3.99	Depositor EDS
% Data completeness (in resolution range)	86.1 (30.00-3.99) 86.1 (30.00-3.99)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	5.13 (at 3.98Å)	Xtriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
R, R_{free}	0.296 , 0.362 0.298 , 0.360	Depositor DCC
R_{free} test set	1988 reflections (0.53%)	wwPDB-VP
Wilson B-factor (Å ²)	51.8	Xtriage
Anisotropy	0.134	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.08 , 129.6	EDS
L-test for twinning ²	$\langle L \rangle = 0.37$, $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	0.180 for h,-k,-l	Xtriage
F_o, F_c correlation	0.77	EDS
Total number of atoms	195873	wwPDB-VP
Average B, all atoms (Å ²)	84.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.17% 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: 4OC, MG, 2MA, PSU, 5MU, 5MC, 2MU, 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	A	0.11	0/69028	0.27	0/107742
1	a	0.11	0/69028	0.27	0/107742
2	B	0.11	0/2876	0.25	0/4486
2	b	0.10	0/2876	0.24	0/4486
3	C	0.10	0/2181	0.34	0/2940
3	c	0.12	0/2181	0.36	0/2940
4	D	0.12	0/1592	0.34	0/2149
4	d	0.12	0/1592	0.38	0/2149
5	E	0.10	0/1619	0.31	0/2193
5	e	0.11	0/1619	0.30	0/2193
6	F	0.12	0/1451	0.36	0/1961
6	f	0.13	0/1451	0.35	0/1961
7	G	0.11	0/1356	0.30	0/1834
7	g	0.11	0/1356	0.30	0/1834
8	H	0.10	0/559	0.29	0/754
8	h	0.10	0/482	0.34	0/650
9	I	0.09	0/1148	0.29	0/1547
9	i	0.10	0/1148	0.30	0/1547
10	J	0.14	0/943	0.32	0/1269
10	j	0.13	0/943	0.33	0/1269
11	K	0.17	0/1152	0.40	0/1533
11	k	0.12	0/1152	0.34	0/1533
12	L	0.16	0/1143	0.36	0/1527
12	l	0.21	0/1143	0.43	0/1527
13	M	0.13	0/982	0.38	0/1312
13	m	0.12	0/982	0.35	0/1312
14	N	0.11	0/887	0.32	0/1180
14	n	0.11	0/887	0.33	0/1180
15	O	0.12	0/1105	0.34	0/1477
15	o	0.12	0/1105	0.36	0/1477
16	P	0.13	0/977	0.34	0/1301
16	p	0.10	0/977	0.32	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	Q	0.10	0/786	0.32	0/1053
17	q	0.10	0/786	0.32	0/1053
18	R	0.11	0/897	0.32	0/1205
18	r	0.13	0/897	0.40	0/1205
19	S	0.10	0/764	0.30	0/1025
19	s	0.10	0/764	0.29	0/1025
20	T	0.12	0/823	0.35	0/1099
20	t	0.11	0/823	0.35	0/1099
21	U	0.12	0/1620	0.33	0/2200
21	u	0.11	0/1593	0.31	0/2165
22	V	0.10	0/616	0.32	0/821
22	v	0.10	0/616	0.35	0/821
23	W	0.12	0/761	0.31	0/1013
23	w	0.10	0/761	0.29	0/1013
24	X	0.13	0/590	0.33	0/781
24	x	0.12	0/590	0.32	0/781
25	Y	0.11	0/474	0.31	0/635
25	y	0.18	0/474	0.37	0/635
26	Z	0.10	0/353	0.23	0/479
26	z	0.10	0/395	0.27	0/536
27	0	0.11	0/473	0.34	0/639
27	5	0.11	0/473	0.32	0/639
28	13	0.10	0/460	0.34	0/613
28	6	0.11	0/460	0.34	0/613
29	2	0.12	0/426	0.40	0/561
29	7	0.12	0/426	0.38	0/561
30	3	0.11	0/525	0.31	0/691
30	8	0.10	0/525	0.30	0/691
31	4	0.10	0/310	0.31	0/407
31	9	0.09	0/310	0.31	0/407
All	All	0.11	0/197692	0.29	0/296772

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
1	A	20	0
1	a	20	0
6	F	0	1
6	f	0	1
All	All	40	2

There are no bond length outliers.

There are no bond angle outliers.

All (40) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	1933	PSU	C1',C3',C2'
1	A	1937	5MU	C1'
1	A	1939	PSU	C1',C3',C2'
1	A	1942	4OC	C3',C2'
1	A	1961	5MU	C1'
1	A	1964	5MC	C3',C2'
1	A	1984	5MC	C3',C2'
1	A	2515	2MA	C3'
1	A	2564	2MU	C1',C3'
1	A	2617	PSU	C1',C3',C2'
1	a	1933	PSU	C1',C3',C2'
1	a	1937	5MU	C1'
1	a	1939	PSU	C1',C3',C2'
1	a	1942	4OC	C3',C2'
1	a	1961	5MU	C1'
1	a	1964	5MC	C3',C2'
1	a	1984	5MC	C3',C2'
1	a	2515	2MA	C3'
1	a	2564	2MU	C1',C3'
1	a	2617	PSU	C1',C3',C2'

All (2) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
6	F	95	ARG	Peptide
6	f	95	ARG	Peptide

5.2 Too-close contacts [i](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	61845	0	31176	1906	0
1	a	61845	0	31180	1950	0
2	B	2572	0	1305	63	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	b	2572	0	1305	67	0
3	C	2131	0	2207	98	0
3	c	2131	0	2207	108	0
4	D	1559	0	1618	97	0
4	d	1559	0	1618	82	0
5	E	1584	0	1625	74	0
5	e	1584	0	1625	72	0
6	F	1426	0	1445	61	0
6	f	1426	0	1445	68	0
7	G	1330	0	1407	35	0
7	g	1330	0	1407	41	0
8	H	555	0	584	12	0
8	h	478	0	515	9	0
9	I	1121	0	1195	39	0
9	i	1121	0	1195	51	0
10	J	933	0	996	42	0
10	j	933	0	996	47	0
11	K	1135	0	1212	57	0
11	k	1135	0	1211	55	0
12	L	1122	0	1179	59	0
12	l	1122	0	1179	62	0
13	M	968	0	1033	46	0
13	m	968	0	1033	52	0
14	N	877	0	938	38	0
14	n	877	0	938	48	0
15	O	1091	0	1151	55	0
15	o	1091	0	1151	49	0
16	P	959	0	1019	59	0
16	p	959	0	1019	55	0
17	Q	775	0	841	26	0
17	q	775	0	841	37	0
18	R	886	0	940	45	0
18	r	886	0	940	33	0
19	S	750	0	814	23	0
19	s	750	0	814	32	0
20	T	810	0	895	52	0
20	t	810	0	893	45	0
21	U	1587	0	1598	59	0
21	u	1560	0	1573	65	0
22	V	608	0	622	32	0
22	v	608	0	622	24	0
23	W	754	0	823	34	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	w	754	0	823	35	0
24	X	588	0	643	19	0
24	x	588	0	643	22	0
25	Y	469	0	518	26	0
25	y	469	0	518	18	0
26	Z	344	0	343	12	0
26	z	385	0	377	14	0
27	0	459	0	479	20	0
27	5	459	0	478	21	0
28	13	453	0	474	24	0
28	6	453	0	473	20	0
29	2	418	0	467	32	0
29	7	418	0	467	28	0
30	3	517	0	582	27	0
30	8	517	0	582	28	0
31	4	307	0	335	22	0
31	9	307	0	336	21	0
32	0	7	0	0	0	0
32	13	2	0	0	0	0
32	2	11	0	0	0	0
32	3	2	0	0	0	0
32	5	7	0	0	0	0
32	6	6	0	0	0	0
32	7	7	0	0	0	0
32	8	12	0	0	0	0
32	9	3	0	0	0	0
32	A	1382	0	0	0	0
32	B	37	0	0	0	0
32	C	44	0	0	0	0
32	D	8	0	0	0	0
32	E	30	0	0	0	0
32	F	5	0	0	0	0
32	G	1	0	0	0	0
32	H	8	0	0	0	0
32	I	12	0	0	0	0
32	J	9	0	0	0	0
32	K	22	0	0	0	0
32	L	9	0	0	0	0
32	M	4	0	0	0	0
32	O	10	0	0	0	0
32	P	7	0	0	0	0
32	Q	10	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
32	R	19	0	0	0	0
32	S	9	0	0	0	0
32	T	17	0	0	0	0
32	U	11	0	0	0	0
32	V	5	0	0	0	0
32	W	15	0	0	0	0
32	X	16	0	0	0	0
32	Y	1	0	0	0	0
32	a	1614	0	0	0	0
32	b	21	0	0	0	0
32	c	33	0	0	0	0
32	d	25	0	0	0	0
32	e	37	0	0	0	0
32	f	4	0	0	0	0
32	g	9	0	0	0	0
32	h	18	0	0	0	0
32	i	26	0	0	0	0
32	j	21	0	0	0	0
32	k	20	0	0	0	0
32	l	16	0	0	0	0
32	m	19	0	0	0	0
32	n	7	0	0	0	0
32	o	31	0	0	0	0
32	p	16	0	0	0	0
32	q	30	0	0	0	0
32	r	28	0	0	0	0
32	s	10	0	0	0	0
32	t	4	0	0	0	0
32	u	25	0	0	0	0
32	v	11	0	0	0	0
32	w	10	0	0	0	0
32	x	11	0	0	0	0
32	y	9	0	0	0	0
32	z	4	0	0	0	0
33	0	1	0	0	0	0
33	13	1	0	0	0	0
33	4	1	0	0	0	0
33	5	1	0	0	0	0
33	6	1	0	0	0	0
33	9	1	0	0	0	0
33	T	1	0	0	0	0
33	Z	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
33	t	1	0	0	0	0
33	z	1	0	0	0	0
34	0	3	0	0	0	0
34	13	13	0	0	0	0
34	2	26	0	0	2	0
34	3	3	0	0	0	0
34	5	10	0	0	0	0
34	6	16	0	0	0	0
34	7	11	0	0	3	0
34	8	15	0	0	1	0
34	9	10	0	0	1	0
34	A	3514	0	0	44	0
34	B	142	0	0	3	0
34	C	84	0	0	1	0
34	D	37	0	0	2	0
34	E	62	0	0	4	0
34	F	16	0	0	0	0
34	H	2	0	0	0	0
34	I	52	0	0	1	0
34	J	16	0	0	0	0
34	K	46	0	0	3	0
34	L	20	0	0	0	0
34	M	13	0	0	0	0
34	O	20	0	0	1	0
34	P	24	0	0	1	0
34	Q	4	0	0	0	0
34	R	43	0	0	1	0
34	S	19	0	0	0	0
34	T	28	0	0	0	0
34	U	26	0	0	0	0
34	V	24	0	0	1	0
34	W	61	0	0	1	0
34	X	28	0	0	0	0
34	Y	8	0	0	0	0
34	a	4732	0	0	58	0
34	b	78	0	0	1	0
34	c	74	0	0	1	0
34	d	94	0	0	3	0
34	e	81	0	0	0	0
34	f	12	0	0	0	0
34	g	6	0	0	0	0
34	h	19	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
34	i	49	0	0	1	0
34	j	75	0	0	1	0
34	k	30	0	0	0	0
34	l	68	0	0	2	0
34	m	38	0	0	2	0
34	n	9	0	0	1	0
34	o	79	0	0	1	0
34	p	51	0	0	0	0
34	q	40	0	0	1	0
34	r	47	0	0	0	0
34	s	32	0	0	1	0
34	t	22	0	0	2	0
34	u	80	0	0	0	0
34	v	46	0	0	2	0
34	w	32	0	0	1	0
34	x	43	0	0	3	0
34	y	20	0	0	1	0
All	All	195873	0	120868	5490	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 19.

All (5490) 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)
1:A:2491:G:OP2	31:4:2:LYS:NZ	1.78	1.16
1:a:2357:G:OP2	28:6:38:LYS:NZ	1.81	1.14
5:E:122:LYS:NZ	5:E:152:GLU:OE2	1.84	1.10
1:A:20:C:OP2	16:P:22:LYS:NZ	1.84	1.08
1:A:655:G:OP2	30:3:15:LYS:NZ	1.85	1.08
1:a:1358:U:OP2	19:s:63:LYS:NZ	1.87	1.08
1:A:2828:G:OP2	13:M:42:LYS:NZ	1.88	1.04
1:A:1229:G:OP2	25:Y:30:ARG:NH1	1.91	1.04
13:M:78:LYS:NZ	13:M:82:GLU:OE2	1.90	1.04
1:a:2041:A:OP2	27:5:9:LYS:NZ	1.91	1.03
1:a:2848:G:H1'	13:m:45:ARG:HH12	1.17	1.03
10:J:64:ARG:NH1	10:J:81:ASP:OD2	1.92	1.02
5:e:116:ASP:OD2	5:e:117:ARG:NH1	1.93	1.02
25:Y:5:LYS:HZ3	25:Y:55:ARG:HH11	1.08	1.02
1:A:595:A:OP2	17:Q:78:LYS:NZ	1.94	1.01
1:A:606:G:OP2	16:P:10:ARG:NH1	1.95	1.00

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:199:ARG:HH12	4:D:202:LYS:NZ	1.59	1.00
18:r:32:ALA:O	18:r:36:LEU:HB2	1.62	1.00
1:a:2297:C:OP2	28:6:6:ARG:NH1	1.95	0.99
1:A:1041:C:OP2	16:P:54:LYS:NZ	1.94	0.98
1:a:1356:G:OP2	29:7:9:ARG:NH1	1.95	0.98
1:A:1003:U:OP2	12:L:14:ARG:NH1	1.97	0.98
1:a:1053:C:OP1	9:i:35:ARG:NH1	1.97	0.97
29:7:34:ARG:NH1	29:7:41:ARG:O	1.97	0.97
29:2:29:LYS:NZ	34:2:201:HOH:O	1.97	0.97
1:a:489:G:N2	1:a:492:A:OP2	1.95	0.97
1:A:1356:G:OP2	29:2:9:ARG:NH1	1.98	0.97
1:A:97:G:OP2	24:X:2:LYS:NZ	1.98	0.96
1:A:2430:A:OP2	30:3:29:LYS:NZ	1.97	0.96
11:k:52:GLU:OE1	11:k:55:ARG:NH1	1.98	0.96
1:A:1810:U:OP2	1:A:1815:A:N6	1.99	0.95
1:A:1384:G:O6	19:S:62:LYS:NZ	1.99	0.95
1:A:594:A:O2'	17:Q:78:LYS:NZ	2.00	0.95
1:A:2486:C:OP2	1:A:2487:C:N4	2.00	0.94
1:A:1961:5MU:OP1	1:A:2616:U:O2'	1.83	0.94
1:A:2396:G:OP2	22:V:55:ARG:NH1	1.99	0.94
1:a:2692:C:OP2	4:d:111:ARG:NH2	2.01	0.94
1:A:494:G:H4'	5:E:62:ARG:HH12	1.30	0.94
1:A:596:G:OP2	17:Q:78:LYS:NZ	1.99	0.94
1:A:751:G:HO2'	1:A:773:G:H1	1.10	0.94
1:A:865:G:N1	1:A:1233:U:OP2	2.00	0.93
3:c:13:ARG:NH1	3:c:16:MET:SD	2.40	0.93
4:D:36:ARG:NH1	4:D:85:ASN:OD1	2.02	0.93
10:J:26:LYS:NZ	10:J:37:ASP:OD2	2.01	0.93
1:a:965:G:N2	1:a:2281:A:OP2	2.02	0.93
1:a:2304:C:OP1	14:n:17:ARG:NH1	2.02	0.93
1:a:627:G:OP2	11:k:90:ARG:NH1	2.02	0.92
1:a:1264:G:OP1	16:p:22:LYS:NZ	2.02	0.92
12:L:13:GLN:O	12:L:72:LYS:NZ	2.02	0.92
1:A:2319:G:H1	6:F:44:GLY:HA3	1.34	0.92
1:a:1785:C:OP1	15:o:96:ARG:NH1	2.02	0.92
1:a:1463:C:O2	1:a:1628:G:N2	2.03	0.92
5:e:158:THR:O	5:e:164:ARG:NH1	2.03	0.91
1:A:2097:U:OP2	1:A:2250:G:O2'	1.86	0.91
1:A:321:C:OP1	20:T:87:LYS:NZ	2.04	0.91
1:A:1129:U:N3	1:A:1132:A:OP2	2.04	0.91
1:A:2639:G:N2	1:A:2790:G:OP2	2.04	0.91

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
31:4:9:ARG:NH1	31:4:14:CYS:O	2.03	0.91
28:6:39:TYR:OH	28:6:44:ARG:NH1	2.03	0.91
1:A:2736:C:OP2	4:D:109:LYS:NZ	2.03	0.91
5:E:63:LYS:NZ	5:E:65:TRP:O	2.04	0.91
20:t:28:LYS:NZ	34:t:601:HOH:O	2.04	0.91
1:a:886:U:H3	1:a:984:G:H1	1.12	0.90
1:a:2706:G:N2	1:a:2728:C:O2	2.03	0.90
1:a:26:G:N1	1:a:538:A:OP2	2.05	0.90
1:a:1047:A:H62	1:a:1200:G:H21	1.20	0.90
24:x:65:ASN:OD1	24:x:69:ARG:NH1	2.05	0.90
1:a:642:G:OP1	5:e:205:ARG:NH1	2.04	0.90
1:a:887:C:OP2	1:a:977:G:N2	2.03	0.90
1:a:1001:G:N2	1:a:1005:A:OP2	2.05	0.89
1:A:632:A:H62	1:A:644:G:H21	1.10	0.89
1:a:656:A:OP1	11:k:65:ARG:NH1	2.05	0.89
1:a:133:G:N2	1:a:144:C:O2	2.06	0.89
1:A:2318:C:N4	6:F:42:GLY:O	2.04	0.89
25:Y:5:LYS:NZ	25:Y:55:ARG:HH11	1.69	0.89
1:A:1412:A:OP1	23:W:3:LYS:NZ	2.06	0.89
1:A:362:G:OP1	20:T:4:LYS:NZ	2.05	0.89
1:A:2480:G:H1	1:A:2493:G:HO2'	1.20	0.89
1:a:24:G:N2	1:a:541:C:O2	2.06	0.89
10:j:53:LYS:NZ	10:j:56:ASP:OD2	2.04	0.89
1:A:1401:G:N2	1:A:1422:C:O2	2.06	0.88
6:f:74:LYS:O	6:f:84:LYS:NZ	2.05	0.88
1:A:1309:U:OP1	27:0:16:ARG:NH1	2.03	0.88
1:a:1269:G:N2	1:a:1272:A:OP2	2.05	0.88
12:l:138:ASP:OD2	21:u:81:ARG:NH1	2.04	0.88
1:a:921:G:N2	1:a:949:C:O2	2.06	0.88
1:a:1808:U:H3	1:a:1818:A:H61	1.20	0.88
1:A:598:A:OP2	1:A:2511:C:O2'	1.90	0.88
1:A:2607:G:N2	1:A:2610:A:OP2	2.06	0.88
1:a:608:G:N2	1:a:1299:A:OP2	2.06	0.88
1:a:1185:C:OP2	9:i:66:LYS:NZ	2.04	0.88
1:A:2032:G:H5''	18:R:42:ARG:HB2	1.56	0.88
1:a:868:A:O2'	1:a:991:G:OP2	1.92	0.87
21:U:47:VAL:O	21:U:51:ALA:HB3	1.75	0.87
1:a:1828:C:O2	1:a:1853:G:N2	2.07	0.87
5:E:119:ARG:NH1	34:E:401:HOH:O	2.06	0.87
1:a:2739:U:O2	10:j:67:LYS:NZ	2.07	0.87
1:A:867:A:H4'	1:A:883:G:H22	1.40	0.87

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:41:LYS:NZ	34:R:301:HOH:O	2.06	0.87
1:a:2798:C:OP1	4:d:41:LYS:NZ	2.08	0.87
1:A:892:G:OP2	1:A:892:G:N2	2.08	0.87
12:L:67:ARG:HB2	12:L:103:MET:O	1.73	0.87
1:a:904:C:O2	1:a:966:G:N2	2.08	0.87
1:a:1835:C:O2	1:a:1844:G:N2	2.09	0.86
1:A:179:A:OP2	1:A:194:G:N2	2.08	0.86
1:A:909:G:OP1	12:L:18:LYS:NZ	2.07	0.86
1:a:2762:A:O3'	7:g:62:LYS:NZ	2.08	0.86
1:A:502:G:N1	1:A:505:A:OP2	2.08	0.86
5:E:158:THR:O	5:E:164:ARG:NH1	2.09	0.86
15:O:41:ARG:NH1	15:O:42:ILE:O	2.09	0.86
1:a:2517:G:O6	27:5:3:LYS:NZ	2.07	0.86
1:A:1273:G:OP1	16:P:13:LYS:NZ	2.09	0.86
1:A:1404:G:N2	1:A:1418:U:OP2	2.09	0.86
13:M:56:LYS:NZ	13:M:90:ARG:O	2.07	0.86
1:A:801:C:N4	34:A:4442:HOH:O	2.08	0.85
1:A:2875:U:OP2	15:O:119:LYS:NZ	2.08	0.85
1:A:311:C:O2	1:A:378:G:N2	2.09	0.85
1:a:656:A:OP2	30:8:47:LYS:NZ	2.09	0.85
24:x:14:ARG:NH1	34:x:201:HOH:O	2.10	0.85
1:a:2745:G:OP1	4:d:203:LYS:NZ	2.08	0.85
7:G:16:SER:OG	7:G:27:LYS:NZ	2.10	0.85
1:A:591:U:N3	1:A:594:A:OP2	2.09	0.85
1:A:2481:A:O2'	12:L:56:ARG:NH1	2.09	0.85
1:a:2574:U:O2'	10:j:23:ARG:NH1	2.09	0.85
1:A:607:C:OP2	16:P:10:ARG:NH2	2.09	0.85
1:A:1785:C:OP1	15:O:96:ARG:NH1	2.09	0.84
2:b:105:A:OP1	21:u:72:ARG:NH1	2.11	0.84
1:A:1013:G:OP1	25:Y:17:LYS:NZ	2.10	0.84
1:A:2753:A:OP2	1:A:2776:G:N2	2.11	0.84
1:a:634:C:O2	1:a:642:G:N2	2.10	0.84
1:a:1712:A:OP1	10:j:66:LYS:NZ	2.10	0.84
25:Y:55:ARG:NH1	25:Y:57:GLU:OE1	2.10	0.84
24:X:62:THR:O	24:X:66:GLU:HB2	1.78	0.84
1:a:1699:A:OP1	13:m:8:ARG:NH1	2.09	0.84
1:A:624:C:O2'	5:E:104:LYS:NZ	2.10	0.84
1:A:495:G:O6	29:2:37:LYS:NZ	2.09	0.84
1:A:2116:G:N2	1:A:2217:C:O2	2.08	0.83
1:a:844:C:OP1	5:e:62:ARG:NH1	2.11	0.83
1:a:502:G:N1	1:a:505:A:OP2	2.10	0.83

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:26:LYS:NZ	3:c:28:GLU:O	2.10	0.83
1:a:1961:5MU:OP1	1:a:2616:U:O2'	1.97	0.83
1:a:2737:C:OP2	4:d:111:ARG:NH1	2.12	0.83
4:d:36:ARG:NH1	4:d:85:ASN:OD1	2.12	0.83
29:7:11:LYS:NZ	34:7:201:HOH:O	2.11	0.83
1:A:921:G:N2	1:A:949:C:O2	2.11	0.83
1:A:840:A:OP2	1:A:2093:A:O2'	1.97	0.83
25:Y:5:LYS:HZ3	25:Y:55:ARG:NH1	1.76	0.83
1:A:542:C:OP1	27:0:16:ARG:NH2	2.12	0.83
1:A:2369:U:O2'	1:A:2371:C:OP2	1.97	0.83
1:A:166:G:N2	1:A:166:G:OP2	2.12	0.83
1:a:553:A:OP2	9:i:114:ARG:NH1	2.11	0.83
14:n:50:SER:O	14:n:76:LYS:NZ	2.12	0.83
1:A:2165:C:O2	1:A:2170:G:N2	2.10	0.82
1:a:1209:G:OP1	17:q:24:LYS:NZ	2.12	0.82
12:l:13:GLN:O	12:l:72:LYS:NZ	2.10	0.82
1:a:2740:G:O2'	10:j:70:LYS:NZ	2.12	0.82
1:a:1784:G:N2	1:a:1787:G:OP2	2.12	0.82
6:F:81:LYS:HZ3	6:F:81:LYS:HB2	1.41	0.82
1:A:1186:U:OP2	9:I:63:THR:OG1	1.98	0.82
1:a:1848:G:OP2	3:c:157:ARG:NH2	2.12	0.82
2:b:19:G:H1	2:b:64:C:H42	1.26	0.82
1:a:889:G:H1	1:a:981:C:H42	1.24	0.82
1:a:2631:C:OP1	4:d:152:LYS:NZ	2.11	0.82
1:a:2658:C:OP2	1:a:2745:G:O2'	1.97	0.82
1:A:239:G:OP2	30:3:13:ARG:NH2	2.13	0.82
1:a:1070:G:H1	1:a:1185:C:H42	1.27	0.82
1:a:1929:G:H1	1:a:1945:U:H3	1.27	0.82
14:N:50:SER:O	14:N:76:LYS:NZ	2.13	0.81
1:a:2295:C:H42	1:a:2337:G:H1	1.26	0.81
1:A:606:G:N2	1:A:1303:C:O2	2.11	0.81
1:a:325:G:OP2	20:t:84:ARG:NH2	2.14	0.81
1:a:414:U:OP2	23:w:20:ARG:NH1	2.13	0.81
12:l:31:ASP:HA	12:l:134:ARG:HH12	1.43	0.81
1:A:1439:A:O2'	34:A:4438:HOH:O	1.94	0.81
9:i:74:ARG:HH12	9:i:85:ILE:HD12	1.46	0.81
1:a:594:A:O2'	17:q:78:LYS:NZ	2.12	0.81
1:a:1810:U:OP2	1:a:1815:A:N6	2.12	0.81
1:A:311:C:N3	1:A:378:G:N1	2.28	0.81
1:A:1089:C:N3	1:A:1158:G:N1	2.27	0.81
20:T:34:LYS:O	20:T:34:LYS:NZ	2.14	0.81

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2075:G:O3'	4:d:145:LYS:NZ	2.11	0.81
1:A:236:G:OP2	1:A:238:C:N4	2.13	0.80
1:A:612:C:O2	1:A:715:G:N2	2.12	0.80
1:A:634:C:N3	1:A:642:G:N1	2.29	0.80
2:B:20:C:N3	2:B:63:G:N1	2.29	0.80
12:L:25:ASP:OD2	21:U:78:LYS:NZ	2.11	0.80
1:a:238:C:O2	30:8:12:LYS:NZ	2.13	0.80
1:A:740:C:N3	1:A:816:G:N1	2.28	0.80
1:A:1295:U:H2'	11:K:18:ARG:HH12	1.45	0.80
1:A:2301:G:N2	1:A:2355:C:O2	2.13	0.80
22:V:49:LYS:NZ	22:V:50:ASN:OD1	2.15	0.80
5:e:103:LYS:O	5:e:107:LYS:HB2	1.81	0.80
1:A:2283:G:H5'	22:V:20:ARG:HH11	1.46	0.80
1:a:908:A:H62	1:a:962:G:H21	1.29	0.80
4:D:141:ILE:O	4:D:154:LYS:NZ	2.14	0.80
4:D:199:ARG:HH12	4:D:202:LYS:HZ1	1.28	0.80
29:2:34:ARG:HH12	29:2:42:LEU:HA	1.46	0.80
1:A:2849:G:H5'	13:M:46:GLY:HA2	1.64	0.80
1:A:2859:U:OP2	15:O:95:ARG:NH1	2.14	0.80
1:a:634:C:N3	1:a:642:G:N1	2.29	0.79
12:l:21:THR:HG21	12:l:101:ARG:HB2	1.63	0.79
1:A:740:C:OP1	3:C:39:LYS:NZ	2.14	0.79
1:a:2326:C:H2'	1:a:2327:G:H8	1.48	0.79
7:g:84:SER:OG	7:g:132:ARG:NH1	2.15	0.79
18:r:78:GLU:OE2	18:r:99:ARG:NH1	2.14	0.79
6:f:63:ILE:HA	6:f:143:GLU:HG3	1.64	0.79
1:A:2863:C:H2'	1:A:2864:G:H8	1.45	0.79
4:D:119:ARG:NH1	4:D:159:HIS:O	2.15	0.79
9:i:112:LEU:O	9:i:116:LEU:HB2	1.82	0.79
1:A:1065:U:OP1	1:A:1081:U:O2'	2.00	0.79
1:A:2323:A:N1	6:F:47:LYS:NZ	2.30	0.79
1:a:235:C:H42	30:8:8:LYS:HB3	1.46	0.79
1:a:604:C:H2'	1:a:605:G:C8	2.18	0.79
1:a:2114:U:H5''	8:h:24:GLY:HA3	1.64	0.79
1:a:2541:G:OP1	7:g:172:LYS:NZ	2.14	0.79
4:D:18:ASP:OD2	15:O:33:LYS:NZ	2.13	0.79
1:A:632:A:H62	1:A:644:G:N2	1.81	0.79
24:X:4:SER:OG	24:X:5:GLU:OE2	2.00	0.79
1:a:1401:G:OP1	3:c:38:LYS:NZ	2.14	0.79
3:c:26:LYS:NZ	3:c:83:GLU:OE2	2.15	0.79
1:A:1863:C:H42	1:A:1995:G:H1	1.27	0.79

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:101:LEU:O	5:e:106:ARG:NH1	2.16	0.79
1:A:1677:C:O2	1:A:1682:G:N2	2.16	0.79
1:a:2318:C:N4	6:f:42:GLY:O	2.16	0.79
1:A:954:C:O2'	12:L:71:ASP:OD2	2.01	0.78
7:G:77:LYS:HZ3	7:G:81:GLU:HB2	1.48	0.78
1:A:844:C:OP1	5:E:62:ARG:NH1	2.15	0.78
1:A:23:G:N2	1:A:542:C:O2	2.13	0.78
1:A:2766:A:O2'	31:4:15:LYS:NZ	2.16	0.78
1:a:1464:G:N1	1:a:1626:A:OP2	2.16	0.78
1:a:2697:G:P	15:o:51:ARG:HH12	2.07	0.78
13:m:103:ARG:NH1	13:m:108:GLY:O	2.16	0.78
1:A:2515:2MA:O2'	1:A:2517:G:OP2	1.99	0.78
1:A:1276:C:H2'	1:A:1277:G:H8	1.47	0.78
1:a:269:G:N2	1:a:275:C:O2	2.12	0.78
10:J:122:LEU:OXT	15:O:74:ARG:NH2	2.16	0.78
1:a:321:C:OP1	20:t:87:LYS:NZ	2.17	0.78
1:A:1089:C:O2	1:A:1158:G:N2	2.14	0.77
1:A:1228:G:O2'	25:Y:29:ARG:NH1	2.16	0.77
1:A:1697:G:N2	1:A:2029:C:O2	2.12	0.77
11:K:52:GLU:OE1	11:K:55:ARG:NH1	2.16	0.77
1:a:311:C:O2	1:a:378:G:N2	2.11	0.77
2:b:11:C:OP2	2:b:12:C:N4	2.17	0.77
1:A:1276:C:H2'	1:A:1277:G:C8	2.20	0.77
1:A:2303:U:H3	1:A:2353:G:H1	1.32	0.77
2:B:38:C:O2'	14:N:93:LYS:NZ	2.16	0.77
1:A:2692:C:OP2	4:D:111:ARG:NH2	2.17	0.77
1:A:2221:A:N1	1:A:2238:C:N4	2.33	0.77
21:u:10:ARG:O	21:u:36:LYS:NZ	2.18	0.77
1:A:1934:A:OP2	1:A:1940:A:N6	2.18	0.77
23:W:22:GLY:O	23:W:32:LYS:NZ	2.16	0.77
1:A:1705:C:O2	1:A:2025:G:N2	2.18	0.77
1:a:331:G:N1	1:a:334:A:OP2	2.16	0.77
1:a:2458:G:N2	1:a:2461:U:O2	2.18	0.77
20:t:87:LYS:HD2	20:t:95:LYS:HD3	1.67	0.77
1:A:2257:U:H5''	1:A:2258:G:H5'	1.66	0.77
3:C:76:PRO:HB2	3:C:116:GLN:HG2	1.66	0.77
20:T:87:LYS:HD2	20:T:95:LYS:HD3	1.65	0.76
4:d:136:ARG:NH1	34:d:401:HOH:O	2.16	0.76
1:A:1329:G:N2	1:A:1332:A:OP2	2.18	0.76
3:C:61:LEU:O	3:C:63:ARG:NH1	2.17	0.76
1:A:895:G:H2'	1:A:896:A:H8	1.49	0.76

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2596:U:H2'	1:a:2597:U:H2'	1.67	0.76
1:A:234:G:O6	30:3:8:LYS:NZ	2.18	0.76
1:A:655:G:N2	1:A:658:A:OP2	2.15	0.76
2:B:11:C:OP2	2:B:12:C:N4	2.19	0.76
1:a:720:C:OP1	5:e:54:ARG:NH1	2.19	0.76
1:A:2150:C:H42	1:A:2182:G:H1	1.33	0.76
1:A:2165:C:N3	1:A:2170:G:N1	2.32	0.76
1:a:1229:G:OP2	25:y:30:ARG:NH1	2.19	0.76
16:P:49:HIS:HA	16:P:52:ARG:HB3	1.68	0.76
1:A:2035:A:O2'	18:R:94:ASP:OD2	2.04	0.76
1:A:2759:U:O2	1:A:2771:A:N6	2.17	0.76
2:B:20:C:O2	2:B:63:G:N2	2.17	0.76
1:A:642:G:OP2	5:E:106:ARG:NE	2.18	0.76
1:A:1001:G:OP2	12:L:14:ARG:NH2	2.19	0.76
12:L:134:ARG:HB3	12:L:134:ARG:HH11	1.50	0.76
17:Q:8:GLY:O	17:Q:10:LYS:NZ	2.17	0.76
1:A:852:G:OP2	1:A:853:C:N4	2.19	0.75
1:A:1697:G:N1	1:A:2029:C:N3	2.32	0.75
1:a:1342:G:OP1	1:a:2721:G:O2'	2.04	0.75
11:K:92:GLU:OE2	11:K:121:LYS:NZ	2.12	0.75
1:a:835:A:OP1	1:a:838:C:N4	2.19	0.75
1:A:1546:G:O2'	3:C:102:LYS:NZ	2.18	0.75
1:a:840:A:OP2	1:a:2093:A:O2'	2.03	0.75
1:a:2785:C:OP1	4:d:202:LYS:NZ	2.19	0.75
1:A:1332:A:O2'	1:A:1334:U:OP2	2.04	0.75
28:13:25:LYS:NZ	28:13:32:ASN:O	2.19	0.75
1:a:817:G:O3'	29:7:10:ARG:NH1	2.20	0.75
1:a:2241:C:H2'	1:a:2242:G:H8	1.51	0.75
1:A:331:G:N1	1:A:334:A:OP2	2.16	0.75
9:i:87:LEU:O	9:i:91:LEU:HB2	1.86	0.75
1:A:2134:G:O6	1:A:2191:A:N6	2.19	0.75
4:D:199:ARG:HH12	4:D:202:LYS:HZ2	1.33	0.75
1:a:1744:G:OP2	1:a:1745:A:O2'	2.05	0.75
1:a:2018:C:OP1	10:j:31:LYS:NZ	2.18	0.75
6:f:36:LYS:HB3	6:f:95:ARG:HH12	1.51	0.75
1:A:331:G:H21	1:A:354:A:H62	1.33	0.75
1:A:2815:C:H2'	1:A:2816:G:C8	2.21	0.75
11:K:52:GLU:HG2	30:3:57:ARG:HH12	1.51	0.75
1:a:726:C:H2'	1:a:727:G:H8	1.52	0.75
1:a:818:G:N2	34:a:4774:HOH:O	2.19	0.75
1:A:634:C:O2	1:A:642:G:N2	2.18	0.74

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:120:GLU:OE2	11:K:1:MET:N	2.19	0.74
1:a:1106:U:H4'	1:a:1107:U:H5'	1.69	0.74
1:A:584:G:HO2'	16:P:45:TYR:HH	1.34	0.74
1:A:720:C:OP1	5:E:54:ARG:NH1	2.19	0.74
4:D:116:VAL:HG21	4:D:138:PRO:HB3	1.69	0.74
1:a:904:C:N3	1:a:966:G:N1	2.29	0.74
2:b:66:A:N6	2:b:109:C:OP2	2.19	0.74
1:A:265:U:H3	1:A:279:G:H1	1.36	0.74
1:A:606:G:N1	1:A:1303:C:N3	2.29	0.74
10:J:53:LYS:NZ	10:J:56:ASP:OD2	2.16	0.74
16:p:29:SER:OG	16:p:30:LYS:NZ	2.19	0.74
2:B:74:U:O4	2:B:103:G:N2	2.15	0.74
24:X:65:ASN:OD1	24:X:69:ARG:NH1	2.18	0.74
1:A:1970:G:H1	1:A:1980:C:H42	1.34	0.74
1:a:234:G:O6	30:8:8:LYS:NZ	2.21	0.74
1:a:992:G:H2'	1:a:993:G:H8	1.52	0.74
4:d:52:LEU:O	4:d:76:ARG:HB2	1.87	0.74
1:A:1825:U:H2'	1:A:1826:C:H6	1.53	0.74
2:B:94:C:H5''	21:U:20:ARG:HH21	1.51	0.74
1:a:234:G:O2'	1:a:411:U:O2	2.06	0.74
1:a:1011:G:H4'	1:a:2283:G:H22	1.52	0.74
1:A:1016:C:O2'	1:A:1029:A:N3	2.19	0.74
29:2:41:ARG:NH1	34:2:202:HOH:O	2.19	0.74
30:8:59:LYS:NZ	34:8:201:HOH:O	2.07	0.74
1:A:2541:G:O6	31:4:31:LYS:NZ	2.20	0.74
1:A:1308:A:OP2	18:R:97:LYS:NZ	2.21	0.73
1:A:1424:A:O2'	1:A:1425:A:OP2	2.04	0.73
1:a:331:G:H21	1:a:354:A:H62	1.34	0.73
1:A:509:A:O2'	20:T:59:GLY:N	2.21	0.73
1:A:2732:G:H5'	15:O:98:LYS:HZ3	1.53	0.73
1:a:1986:G:O2'	1:a:1989:C:OP2	2.05	0.73
1:a:2323:A:H1'	6:f:88:ILE:HD12	1.71	0.73
1:A:1444:C:H5'	19:S:53:LYS:HE2	1.69	0.73
6:f:36:LYS:HB3	6:f:95:ARG:NH1	2.04	0.73
1:A:212:A:O2'	1:A:447:C:O2	2.07	0.73
1:A:259:A:OP2	1:A:284:G:N1	2.21	0.73
1:A:1480:A:H61	1:A:1605:A:H61	1.33	0.73
12:L:134:ARG:HB3	12:L:134:ARG:NH1	2.03	0.73
1:A:1345:G:N2	1:A:1687:C:OP2	2.22	0.73
3:c:80:ALA:HB3	3:c:94:LEU:HB3	1.69	0.73
16:p:58:ARG:HH12	16:p:92:ARG:NH2	1.87	0.73

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:s:2:LYS:NZ	19:s:38:GLU:OE2	2.20	0.73
1:A:1958:A:OP2	1:A:1983:C:N4	2.20	0.73
2:B:105:A:OP1	21:U:72:ARG:NH1	2.21	0.73
11:K:93:GLY:H	11:K:123:LEU:HD22	1.54	0.73
21:u:77:ASP:OD2	21:u:80:ARG:NH1	2.22	0.73
1:A:322:G:N2	1:A:363:U:OP2	2.21	0.73
28:13:35:GLU:OE2	28:13:50:ARG:NH1	2.21	0.73
1:a:1400:A:O2'	34:a:4762:HOH:O	2.06	0.73
1:A:539:A:N3	1:A:604:C:O2'	2.21	0.73
1:A:794:U:H2'	18:R:88:ARG:HH21	1.53	0.73
1:A:1410:G:OP1	23:W:2:SER:N	2.22	0.73
1:A:2133:C:OP2	1:A:2167:C:N4	2.22	0.73
1:A:1054:C:O2	1:A:1055:A:N6	2.21	0.73
1:A:1324:A:H2'	1:A:1325:G:H8	1.53	0.73
1:a:2172:U:H2'	1:a:2173:G:H8	1.54	0.73
1:A:2505:U:O2'	12:L:80:GLU:OE2	2.05	0.72
15:o:41:ARG:NH1	15:o:42:ILE:O	2.22	0.72
1:A:325:G:OP2	20:T:84:ARG:NH2	2.22	0.72
1:A:2695:C:H5'	15:O:58:ASN:HB3	1.72	0.72
13:M:26:LYS:NZ	13:M:70:LEU:O	2.18	0.72
23:W:75:GLU:HA	23:W:78:LYS:HZ3	1.51	0.72
1:a:13:A:O2'	1:a:15:G:N7	2.22	0.72
1:a:39:C:O2'	5:e:46:ARG:NH1	2.22	0.72
1:a:1268:C:OP2	17:q:88:ARG:NH1	2.22	0.72
1:a:746:A:H62	1:a:780:G:H21	1.35	0.72
12:l:136:ALA:HB1	21:u:52:SER:HB3	1.72	0.72
1:A:2340:A:H2'	1:A:2341:G:C8	2.24	0.72
1:A:151:C:H2'	1:A:152:G:C8	2.24	0.72
1:A:1736:A:OP2	1:A:1745:A:N6	2.20	0.72
11:K:86:LYS:HB3	11:K:118:GLY:HA3	1.72	0.72
26:Z:40:HIS:HB3	26:Z:43:TYR:HB2	1.70	0.72
1:a:1102:G:N1	1:a:1148:C:OP2	2.20	0.72
1:a:1615:G:OP1	3:c:63:ARG:NH1	2.23	0.72
1:A:1324:A:H2'	1:A:1325:G:C8	2.25	0.72
1:a:557:A:H4'	1:a:558:G:C8	2.24	0.72
5:e:132:VAL:HA	5:e:138:GLU:HB3	1.72	0.72
1:A:559:U:H3	1:A:582:G:H1	1.36	0.72
2:B:96:U:OP1	21:U:14:LYS:NZ	2.17	0.72
1:a:869:U:H2'	1:a:870:G:H8	1.55	0.72
1:a:2706:G:N1	1:a:2728:C:N3	2.28	0.72
12:l:26:TYR:O	12:l:67:ARG:NH1	2.21	0.72

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:740:C:O2	1:A:816:G:N2	2.17	0.72
1:A:2437:A:H4'	1:A:2438:A:H5''	1.72	0.72
1:A:2390:A:H4'	14:N:23:ARG:HD2	1.72	0.72
1:a:2653:G:OP2	9:i:83:LYS:NZ	2.22	0.72
13:m:97:VAL:HG22	13:m:114:VAL:HG22	1.72	0.72
7:g:54:ARG:HH12	7:g:62:LYS:HD2	1.54	0.71
25:y:6:VAL:O	25:y:34:GLU:HA	1.90	0.71
1:A:37:C:H2'	1:A:38:A:C8	2.25	0.71
1:A:1235:G:H5''	11:K:32:THR:HA	1.73	0.71
1:a:1272:A:OP1	17:q:84:LYS:NZ	2.22	0.71
1:A:1698:G:N1	1:A:2028:C:N3	2.30	0.71
1:a:2438:A:N6	34:a:4781:HOH:O	2.23	0.71
1:A:1929:G:H1	1:A:1945:U:H3	1.38	0.71
1:a:1261:G:OP2	16:p:12:ARG:NH2	2.23	0.71
14:n:25:ARG:NH1	14:n:42:ASP:OD1	2.23	0.71
1:A:556:C:OP1	1:A:584:G:N2	2.24	0.71
1:A:1830:G:N2	1:A:1850:A:OP2	2.23	0.71
1:a:239:G:OP2	30:8:13:ARG:NH2	2.24	0.71
1:a:2405:A:O2'	11:k:60:MET:O	2.09	0.71
1:A:992:G:H2'	1:A:993:G:C8	2.25	0.71
1:A:1501:U:O2'	1:A:1502:G:N7	2.23	0.71
6:F:63:ILE:HA	6:F:143:GLU:HG3	1.72	0.71
1:a:267:C:H2'	1:a:268:G:C8	2.26	0.71
1:a:1372:U:HO2'	1:a:2032:G:HO2'	1.33	0.71
1:a:1826:C:O2	3:c:255:LYS:NZ	2.24	0.71
4:d:38:THR:N	4:d:42:ASP:OD2	2.20	0.71
6:f:62:LEU:HB3	26:z:28:LYS:HZ2	1.56	0.71
1:A:641:G:OP2	5:E:43:LYS:NZ	2.19	0.71
1:A:1768:U:HO2'	1:A:1769:G:H8	1.37	0.71
1:a:860:U:OP2	11:k:24:GLY:N	2.24	0.71
1:a:1333:A:O2'	34:a:4763:HOH:O	2.09	0.71
1:a:1636:U:H2'	1:a:1637:G:C8	2.26	0.71
1:a:2372:A:O2'	11:k:61:ARG:NH1	2.23	0.71
9:i:12:ARG:NH2	9:i:136:GLU:OE2	2.20	0.71
1:a:786:G:O2'	1:a:787:U:OP2	2.08	0.71
5:e:56:GLU:OE2	5:e:93:LYS:NZ	2.24	0.71
6:f:47:LYS:HZ2	6:f:81:LYS:HZ2	1.37	0.71
1:A:612:C:P	11:K:16:ARG:HH12	2.13	0.71
1:A:1210:G:H1	1:A:1230:C:H42	1.38	0.71
9:I:118:LYS:O	9:I:121:LYS:NZ	2.23	0.71
1:a:2894:U:OP2	27:5:43:HIS:NE2	2.23	0.71

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:52:ARG:NH1	3:c:249:PRO:HG2	2.06	0.71
7:g:16:SER:HB3	7:g:27:LYS:HB2	1.71	0.71
1:A:1075:A:OP1	12:L:128:LYS:NZ	2.21	0.70
1:A:1861:C:H2'	1:A:1862:G:H8	1.56	0.70
1:A:2122:G:H2'	1:A:2123:G:H8	1.55	0.70
1:A:2532:C:O2'	1:A:2577:A:O2'	2.08	0.70
1:a:1151:U:H2'	1:a:1152:G:H8	1.55	0.70
1:a:1383:G:P	19:s:73:ARG:HH12	2.14	0.70
1:a:2359:C:O2'	28:6:21:TYR:OH	2.09	0.70
1:A:793:A:O2'	1:A:2623:U:O2'	2.06	0.70
1:A:2762:A:OP2	1:A:2763:A:O2'	2.05	0.70
1:a:2295:C:N3	1:a:2337:G:N2	2.34	0.70
21:u:55:HIS:ND1	21:u:135:GLU:OE2	2.24	0.70
11:K:116:GLY:HA3	11:K:133:SER:HB2	1.71	0.70
1:a:1514:C:N3	1:a:1571:G:N1	2.32	0.70
1:A:1957:G:H3'	1:A:1984:5MC:HN41	1.56	0.70
24:X:33:MET:HG3	24:X:36:ARG:HH21	1.56	0.70
1:a:1698:G:H1	1:a:2028:C:H42	1.38	0.70
1:A:1698:G:N2	1:A:2028:C:O2	2.16	0.70
1:A:2161:C:H42	1:A:2174:G:H1	1.37	0.70
1:A:2754:A:N6	1:A:2776:G:O2'	2.24	0.70
1:A:2857:U:OP1	15:O:98:LYS:NZ	2.24	0.70
1:a:853:C:O2	1:a:2456:G:O2'	2.10	0.70
21:u:108:PRO:HB3	21:u:144:LEU:HB2	1.73	0.70
29:7:24:THR:HG22	29:7:27:GLY:H	1.56	0.70
1:A:662:A:H5''	11:K:117:GLU:HG2	1.72	0.70
1:A:1053:C:OP1	9:I:37:LYS:NZ	2.19	0.70
1:A:1715:A:N3	1:A:1717:C:N4	2.40	0.70
1:a:2646:G:H1	1:a:2797:C:H42	1.37	0.70
1:a:81:G:N1	1:a:101:A:OP2	2.21	0.70
1:a:1627:A:H3'	1:a:1628:G:H8	1.57	0.70
1:a:1854:G:OP1	3:c:54:ARG:NH1	2.24	0.70
1:a:2875:U:OP2	15:o:119:LYS:NZ	2.20	0.70
1:A:181:C:O2'	1:A:849:A:N3	2.25	0.70
1:a:552:C:OP2	1:a:2792:U:N3	2.24	0.70
1:a:2021:C:O2	1:a:2699:U:O2'	2.10	0.70
4:d:147:PRO:HG3	4:d:151:TYR:HE1	1.56	0.70
1:A:478:G:N2	1:A:483:A:O2'	2.25	0.70
1:A:1121:C:N4	1:A:1123:A:N1	2.40	0.70
1:A:1872:U:H2'	1:A:1873:G:H8	1.57	0.70
1:a:2652:G:H1	1:a:2787:C:H42	1.39	0.70

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
9:i:73:THR:HA	9:i:83:LYS:O	1.91	0.70
1:A:2103:C:H2'	1:A:2104:A:H8	1.57	0.69
2:B:8:U:OP1	14:N:15:ARG:NH2	2.25	0.69
4:D:135:HIS:NE2	34:D:401:HOH:O	2.23	0.69
1:a:30:G:OP2	16:p:5:LYS:NZ	2.25	0.69
1:a:1846:A:OP2	3:c:54:ARG:NH2	2.24	0.69
1:A:867:A:H4'	1:A:883:G:N2	2.07	0.69
1:A:2283:G:H5'	22:V:20:ARG:NH1	2.06	0.69
1:a:1016:C:O2'	1:a:1029:A:N3	2.25	0.69
1:a:1047:A:H62	1:a:1200:G:N2	1.89	0.69
1:a:1514:C:O2	1:a:1571:G:N2	2.14	0.69
13:m:59:ASP:OD1	13:m:59:ASP:N	2.24	0.69
1:A:173:C:H2'	1:A:174:U:C6	2.27	0.69
1:a:2138:G:OP2	1:a:2188:G:N2	2.25	0.69
1:a:1218:G:O2'	1:a:1219:A:O4'	2.09	0.69
1:a:2319:G:H22	6:f:44:GLY:HA3	1.57	0.69
10:J:17:ARG:HA	10:J:17:ARG:HH11	1.57	0.69
10:J:43:VAL:HB	10:J:55:GLY:H	1.56	0.69
12:l:34:LEU:HB2	12:l:118:LEU:HD22	1.73	0.69
1:A:612:C:OP2	11:K:16:ARG:NH1	2.23	0.69
1:A:2487:C:O2	1:A:2541:G:N2	2.25	0.69
1:a:250:G:HO2'	1:a:633:G:HO2'	1.39	0.69
15:o:22:PHE:HA	15:o:91:ARG:HH12	1.57	0.69
1:A:736:A:H2'	1:A:737:G:H8	1.58	0.69
1:A:2325:C:O3'	6:F:91:ARG:NH1	2.25	0.69
10:J:40:VAL:HG13	10:J:59:LYS:HG2	1.75	0.69
30:3:28:GLY:O	30:3:36:LYS:NZ	2.25	0.69
1:a:595:A:OP2	17:q:78:LYS:NZ	2.20	0.69
1:a:1848:G:OP1	3:c:88:ARG:NH2	2.25	0.69
1:a:2479:C:N4	1:a:2480:G:O6	2.26	0.69
5:e:120:GLU:OE2	11:k:1:MET:N	2.26	0.69
1:A:652:A:N7	11:K:84:ASN:ND2	2.39	0.69
1:A:1533:G:H1	1:A:1548:C:H42	1.41	0.69
1:a:67:G:N2	1:a:73:A:OP2	2.26	0.69
1:a:2599:A:H62	1:a:2620:G:H21	1.41	0.69
5:e:156:LEU:HB3	5:e:174:VAL:O	1.92	0.69
23:w:6:GLU:OE2	23:w:61:ARG:N	2.25	0.69
1:A:2005:C:N4	34:A:4469:HOH:O	2.24	0.69
1:a:641:G:O2'	5:e:205:ARG:NH2	2.25	0.69
1:a:654:G:H1	1:a:659:C:H42	1.39	0.69
1:a:1914:C:N4	34:a:4779:HOH:O	2.22	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2303:U:H2'	1:a:2304:C:C6	2.28	0.69
1:A:80:G:H21	20:T:1:MET:HE3	1.56	0.68
1:A:2412:G:H4'	28:13:18:ARG:HG2	1.73	0.68
1:A:2895:C:H42	27:0:31:VAL:HG11	1.56	0.68
7:G:77:LYS:NZ	7:G:81:GLU:HB2	2.07	0.68
1:a:727:G:H2'	1:a:728:G:H8	1.57	0.68
5:e:75:HIS:HB3	5:e:83:PHE:HZ	1.57	0.68
18:r:35:ILE:O	18:r:39:THR:OG1	2.11	0.68
5:E:72:ARG:NH2	34:E:402:HOH:O	2.27	0.68
6:F:102:PHE:HA	6:F:105:LYS:HZ2	1.57	0.68
1:a:2001:C:N4	34:a:4785:HOH:O	2.25	0.68
18:r:68:ARG:HH11	18:r:111:HIS:HA	1.58	0.68
1:A:433:G:H1	1:A:448:U:H3	1.41	0.68
1:A:2456:G:OP2	5:E:68:LYS:HD2	1.93	0.68
28:13:6:ARG:HH11	28:13:26:ASN:HB2	1.59	0.68
1:a:269:G:N1	1:a:275:C:N3	2.32	0.68
1:a:1289:G:O2'	11:k:7:ARG:NH2	2.26	0.68
1:a:1574:A:OP2	1:a:1588:G:N1	2.27	0.68
1:a:2291:G:N7	22:v:14:ARG:NH1	2.42	0.68
12:l:97:VAL:HG11	12:l:103:MET:HE3	1.76	0.68
3:C:168:ARG:HA	3:C:173:VAL:HA	1.75	0.68
13:M:38:VAL:HG22	13:M:112:ALA:HB2	1.75	0.68
21:U:99:TYR:HA	21:U:124:ILE:O	1.93	0.68
1:a:2701:U:H4'	1:a:2702:C:H5'	1.76	0.68
1:a:2735:G:H5'	13:m:4:LEU:HD12	1.75	0.68
6:f:98:ARG:HA	6:f:101:ILE:HD12	1.74	0.68
1:A:1323:G:H2'	1:A:1324:A:C8	2.29	0.68
1:A:1574:A:H2'	1:A:1575:A:C8	2.28	0.68
1:a:2047:C:N4	34:a:4791:HOH:O	2.26	0.68
1:a:2052:A:H4'	1:a:2053:A:H8	1.59	0.68
1:a:2230:U:H5''	1:a:2231:G:C8	2.27	0.68
1:a:2480:G:O2'	1:a:2493:G:N2	2.26	0.68
26:z:16:CYS:SG	26:z:17:GLY:N	2.67	0.68
1:A:2138:G:OP2	1:A:2188:G:N2	2.26	0.68
1:A:2732:G:H5'	15:O:98:LYS:NZ	2.07	0.68
26:Z:16:CYS:SG	26:Z:17:GLY:N	2.67	0.68
1:a:746:A:H62	1:a:780:G:N2	1.92	0.68
1:a:1632:A:H5'	1:a:1633:A:OP2	1.94	0.68
1:a:1633:A:H2'	1:a:1634:C:C6	2.29	0.68
1:a:2624:C:OP2	27:5:2:ALA:N	2.27	0.68
4:d:155:LYS:NZ	34:d:402:HOH:O	2.27	0.68

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1298:G:N3	16:p:33:ARG:NH1	2.41	0.68
2:b:14:U:OP2	2:b:70:C:O2'	2.09	0.68
7:g:27:LYS:HG2	7:g:32:GLU:HG3	1.76	0.68
11:k:63:PRO:HD3	30:8:27:THR:HG22	1.76	0.68
1:A:2320:G:O2'	1:A:2322:A:N7	2.27	0.68
1:A:2851:C:H2'	1:A:2852:G:H8	1.58	0.68
28:13:35:GLU:HA	28:13:49:HIS:O	1.93	0.68
1:a:1355:G:H21	1:a:1657:C:H5'	1.59	0.68
1:a:2478:C:H5''	31:9:6:SER:HB3	1.76	0.68
13:m:86:ARG:NH1	34:m:301:HOH:O	2.27	0.68
24:x:47:ASN:ND2	34:x:202:HOH:O	2.26	0.68
1:A:1731:C:H2'	1:A:1732:C:C6	2.29	0.68
1:a:604:C:H2'	1:a:605:G:H8	1.57	0.68
1:a:1324:A:H2'	1:a:1325:G:H8	1.58	0.68
11:k:92:GLU:OE2	11:k:121:LYS:NZ	2.15	0.68
16:p:58:ARG:HH12	16:p:92:ARG:HH21	1.42	0.68
1:A:2081:A:H5'	5:E:71:GLY:HA2	1.75	0.67
1:A:2387:G:N2	1:A:2390:A:OP2	2.22	0.67
9:I:15:LEU:HD12	9:I:137:LYS:HG2	1.75	0.67
1:A:794:U:H1'	18:R:92:ARG:HH22	1.60	0.67
1:A:1248:G:N1	1:A:1287:A:OP2	2.27	0.67
1:A:2343:G:H4'	22:V:43:THR:H	1.59	0.67
20:T:87:LYS:HZ2	20:T:95:LYS:NZ	1.92	0.67
12:l:30:GLY:O	12:l:134:ARG:NH1	2.27	0.67
1:A:525:G:N1	1:A:528:A:OP2	2.27	0.67
1:A:1258:A:OP2	1:A:1281:G:N2	2.26	0.67
18:R:12:ILE:HD13	18:R:17:VAL:HG13	1.76	0.67
1:a:867:A:N3	1:a:988:U:O2'	2.27	0.67
30:8:39:LYS:HA	30:8:42:ARG:NH1	2.09	0.67
1:a:727:G:H2'	1:a:728:G:C8	2.29	0.67
4:d:144:ARG:HG3	4:d:145:LYS:H	1.58	0.67
20:t:92:ASN:HB2	20:t:94:LYS:H	1.60	0.67
1:A:491:G:H5'	29:2:12:ARG:HH12	1.60	0.67
1:A:541:C:H5''	27:0:13:LYS:NZ	2.10	0.67
1:A:1019:G:O4'	1:A:1231:G:N2	2.27	0.67
1:A:2368:C:OP1	22:V:24:LYS:NZ	2.26	0.67
1:A:2658:C:OP1	1:A:2778:A:O2'	2.11	0.67
7:G:121:ILE:HD11	7:G:140:LYS:HB3	1.76	0.67
28:13:39:TYR:OH	28:13:44:ARG:NH1	2.27	0.67
1:a:2346:G:H5'	14:n:9:ARG:HG2	1.75	0.67
11:k:52:GLU:OE2	11:k:58:THR:N	2.27	0.67

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:600:G:O2'	1:A:1300:A:OP1	2.13	0.67
1:A:1218:G:O2'	1:A:1219:A:O4'	2.12	0.67
1:A:2099:A:OP1	1:A:2250:G:N1	2.26	0.67
17:Q:21:ARG:NH1	17:Q:93:GLU:OE2	2.28	0.67
1:a:580:U:H2'	1:a:581:G:H8	1.60	0.67
1:a:600:G:O2'	1:a:1300:A:OP1	2.11	0.67
1:a:752:A:OP2	1:a:772:G:N2	2.25	0.67
1:a:885:C:H42	1:a:985:G:H1	1.42	0.67
1:a:1081:U:H2'	1:a:1082:G:C8	2.29	0.67
1:a:2276:C:O2	1:a:2289:G:N2	2.28	0.67
28:6:6:ARG:NH1	28:6:26:ASN:HB2	2.09	0.67
1:A:192:C:OP2	1:A:193:A:O2'	2.06	0.67
1:a:2212:G:H2'	1:a:2213:G:H8	1.60	0.67
1:a:2307:C:OP2	14:n:10:ARG:HD3	1.94	0.67
1:a:2672:A:N7	7:g:175:LYS:NZ	2.42	0.67
1:a:2848:G:H1'	13:m:45:ARG:NH1	2.00	0.67
1:A:489:G:N2	1:A:492:A:OP2	2.24	0.67
18:R:36:LEU:HD12	18:R:51:LEU:HD12	1.77	0.67
1:a:464:G:H5''	34:a:5727:HOH:O	1.95	0.67
1:a:2340:A:H2'	1:a:2341:G:C8	2.30	0.67
1:A:1458:A:H2'	1:A:1459:G:C8	2.30	0.67
1:a:1354:A:H3'	1:a:1355:G:H8	1.59	0.67
1:a:2331:G:H22	14:n:3:ARG:HD2	1.59	0.67
6:f:22:ARG:HH21	6:f:171:ALA:HB1	1.58	0.67
24:x:35:LEU:HD12	24:x:53:LEU:HD12	1.77	0.67
1:A:2104:A:H3'	1:A:2105:G:H8	1.60	0.66
3:C:19:ALA:HB2	3:C:204:ILE:HD11	1.76	0.66
6:F:109:VAL:HG11	6:F:142:PRO:HB3	1.76	0.66
1:a:1312:G:OP2	27:5:20:ARG:NH2	2.28	0.66
1:a:2697:G:OP2	15:o:51:ARG:NH2	2.27	0.66
6:f:6:ALA:N	6:f:104:GLU:OE2	2.28	0.66
1:A:2624:C:OP2	27:0:2:ALA:N	2.28	0.66
14:N:81:GLY:O	14:N:83:LYS:NZ	2.28	0.66
1:a:1579:C:H42	1:a:1584:G:H1	1.42	0.66
1:a:2140:U:H5'	1:a:2169:G:H21	1.60	0.66
2:b:92:C:H5''	21:u:79:ARG:NH1	2.10	0.66
1:A:236:G:O6	30:3:12:LYS:NZ	2.27	0.66
1:A:2239:A:H5''	3:C:263:ARG:HH11	1.58	0.66
1:a:75:C:OP1	24:x:55:ARG:NH2	2.27	0.66
1:a:1044:C:OP2	16:p:92:ARG:NH2	2.25	0.66
2:b:92:C:H2'	2:b:93:G:H8	1.60	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:e:156:LEU:HD23	5:e:175:THR:HG22	1.76	0.66
9:i:35:ARG:NH2	34:i:301:HOH:O	2.27	0.66
1:A:83:A:H2'	20:T:8:LYS:HZ2	1.61	0.66
1:A:153:C:H2'	1:A:154:G:H8	1.60	0.66
1:A:1770:A:H3'	1:A:1771:G:H8	1.60	0.66
1:A:2097:U:H2'	1:A:2099:A:OP2	1.95	0.66
20:T:13:VAL:HA	20:T:74:PRO:HA	1.76	0.66
1:a:171:A:H61	1:a:204:G:H1	1.43	0.66
1:a:1143:U:H3'	1:a:1144:A:H8	1.60	0.66
1:a:1895:U:OP1	1:a:2422:G:O2'	2.12	0.66
1:a:2719:G:N2	13:m:71:GLN:OE1	2.28	0.66
1:A:632:A:N6	1:A:644:G:H21	1.90	0.66
1:A:1597:C:OP1	1:A:1765:U:O2'	2.13	0.66
1:A:1614:A:OP2	3:C:84:TYR:OH	2.12	0.66
1:A:2448:G:O2'	1:A:2610:A:N1	2.26	0.66
1:a:864:C:O2'	1:a:886:U:OP1	2.12	0.66
13:m:24:GLN:HB3	13:m:44:LEU:HD11	1.78	0.66
1:A:234:G:O2'	1:A:411:U:O2	2.14	0.66
3:C:16:MET:SD	3:C:211:ARG:NH2	2.69	0.66
21:U:19:ARG:NH1	21:U:84:GLU:HB2	2.10	0.66
1:a:612:C:H2'	1:a:613:A:H8	1.60	0.66
1:A:1884:A:H2'	1:A:1885:A:H8	1.61	0.66
19:S:60:ARG:HH22	29:2:47:ARG:NH1	1.93	0.66
1:a:203:G:N3	1:a:205:A:O2'	2.28	0.66
1:a:815:G:H2'	1:a:816:G:H8	1.58	0.66
1:a:2486:C:OP2	1:a:2487:C:N4	2.23	0.66
20:t:13:VAL:HA	20:t:74:PRO:HA	1.77	0.66
1:A:2172:U:H2'	1:A:2173:G:C8	2.31	0.66
5:E:126:VAL:HG11	5:E:142:TRP:HZ2	1.61	0.66
1:a:1399:A:OP2	1:a:1423:G:N1	2.20	0.66
1:A:936:C:O2'	1:A:937:A:O5'	2.14	0.66
1:A:1848:G:OP1	3:C:88:ARG:NH2	2.29	0.66
1:A:2363:G:OP1	30:3:46:ARG:NH1	2.29	0.66
1:A:2631:C:OP1	4:D:152:LYS:NZ	2.27	0.66
26:Z:14:ILE:HG12	26:Z:31:ILE:HB	1.78	0.66
1:a:1186:U:O2	1:a:1188:A:N6	2.29	0.66
1:a:1235:G:OP1	11:k:30:THR:OG1	2.12	0.66
1:A:1577:C:O2'	1:A:1578:C:O5'	2.13	0.66
1:A:2863:C:H2'	1:A:2864:G:C8	2.30	0.66
20:T:92:ASN:N	20:T:93:GLY:HA2	2.10	0.66
1:a:1081:U:H2'	1:a:1082:G:H8	1.61	0.66

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2040:G:N3	16:p:34:LYS:NZ	2.44	0.66
1:a:2410:U:H2'	1:a:2411:G:C8	2.31	0.66
1:A:465:G:H2'	1:A:466:G:C8	2.31	0.65
1:A:612:C:H2'	1:A:613:A:H8	1.60	0.65
1:A:2306:C:OP1	14:N:89:ARG:NH2	2.29	0.65
1:a:726:C:H2'	1:a:727:G:C8	2.29	0.65
1:a:1387:U:O4	19:s:16:LYS:NZ	2.27	0.65
1:a:2103:C:H2'	1:a:2104:A:H8	1.60	0.65
2:b:117:G:H2'	2:b:118:G:C8	2.31	0.65
1:A:551:A:O2'	1:A:2065:C:O2	2.11	0.65
1:a:646:A:OP2	11:k:108:LYS:NZ	2.27	0.65
1:a:971:C:H2'	1:a:972:A:H8	1.60	0.65
26:z:41:PRO:HB3	26:z:48:ARG:HA	1.77	0.65
1:A:612:C:N3	1:A:715:G:N1	2.34	0.65
1:A:1588:G:OP2	1:A:1589:A:O2'	2.12	0.65
1:A:2697:G:OP1	10:J:78:ARG:NH1	2.29	0.65
2:B:50:G:OP1	14:N:61:ASN:ND2	2.29	0.65
1:a:1636:U:H2'	1:a:1637:G:H8	1.61	0.65
1:a:2071:G:O6	1:a:2631:C:N4	2.30	0.65
1:a:2755:C:H42	1:a:2775:G:H1	1.43	0.65
14:n:16:ASN:ND2	34:n:301:HOH:O	2.28	0.65
1:A:1823:G:H5'	3:C:205:VAL:HG13	1.78	0.65
1:A:2464:C:H2'	1:A:2465:A:H8	1.61	0.65
6:F:7:LEU:HA	6:F:10:LYS:HG2	1.78	0.65
21:U:76:LEU:HA	21:U:83:PRO:HA	1.78	0.65
1:a:281:G:H2'	1:a:282:G:C8	2.31	0.65
1:a:1038:C:H2'	1:a:1039:G:H8	1.61	0.65
2:b:92:C:H5''	21:u:79:ARG:HH12	1.61	0.65
16:p:9:VAL:O	16:p:13:LYS:HB2	1.96	0.65
19:s:25:LYS:HA	19:s:81:VAL:O	1.96	0.65
21:u:19:ARG:NH1	21:u:84:GLU:HB2	2.11	0.65
1:A:991:G:O6	1:A:1017:G:N2	2.28	0.65
1:A:2288:G:H2'	1:A:2289:G:H8	1.62	0.65
1:A:2357:G:H4'	1:A:2358:A:H5'	1.79	0.65
1:a:1057:G:OP1	16:p:75:ASN:ND2	2.29	0.65
1:a:1740:U:H1'	3:c:14:ARG:NH1	2.12	0.65
1:A:952:G:O2'	12:L:67:ARG:NH2	2.27	0.65
1:A:2551:C:O2'	31:4:35:ARG:NH1	2.30	0.65
1:a:1976:G:O2'	1:a:1978:U:O4	2.12	0.65
1:a:2223:C:O2'	34:a:4767:HOH:O	2.14	0.65
1:a:2258:G:H2'	1:a:2259:A:H8	1.62	0.65

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:120:G:H1	1:A:127:C:H42	1.41	0.65
1:A:375:G:O2'	1:A:377:G:N7	2.27	0.65
1:A:1759:C:O2	1:A:1778:G:N2	2.29	0.65
1:A:1858:C:OP2	3:C:222:ARG:NH1	2.25	0.65
1:A:2638:C:H2'	1:A:2639:G:H8	1.61	0.65
1:a:1293:A:O2'	1:a:1295:U:OP2	2.13	0.65
1:A:1106:U:H4'	1:A:1107:U:H5'	1.76	0.65
1:A:2713:C:H42	1:A:2718:G:H1	1.44	0.65
1:a:632:A:H62	1:a:644:G:H21	1.43	0.65
1:A:612:C:H2'	1:A:613:A:C8	2.31	0.65
1:A:861:C:H42	1:A:1238:G:H1	1.45	0.65
1:A:996:C:H2'	1:A:997:G:H8	1.62	0.65
1:A:2261:U:O2'	34:A:4446:HOH:O	2.14	0.65
1:A:2532:C:H41	1:A:2554:A:H61	1.45	0.65
2:B:49:C:H2'	2:B:50:G:H8	1.61	0.65
1:a:484:G:O2'	29:7:39:ARG:NH1	2.30	0.65
1:a:1712:A:N6	34:a:4788:HOH:O	2.26	0.65
1:a:2069:U:O2'	1:a:2833:A:N1	2.29	0.65
1:a:2388:A:H1'	14:n:106:ARG:HH12	1.60	0.65
1:a:2499:G:H2'	1:a:2500:A:C8	2.32	0.65
1:a:2634:C:N4	34:a:4799:HOH:O	2.30	0.65
1:A:2240:G:OP1	3:C:261:LYS:NZ	2.26	0.65
1:A:2240:G:P	3:C:263:ARG:HH12	2.20	0.65
27:0:8:LYS:HG3	27:0:9:LYS:HG2	1.79	0.65
1:a:37:C:H2'	1:a:38:A:C8	2.31	0.65
1:a:1440:U:H4'	1:a:1649:A:H4'	1.78	0.65
1:a:2567:U:O2'	34:a:4768:HOH:O	2.15	0.65
15:o:19:LEU:HB3	15:o:86:ILE:HD11	1.79	0.65
1:A:908:A:H62	1:A:962:G:H21	1.43	0.64
1:A:2116:G:N1	1:A:2217:C:N3	2.36	0.64
2:B:18:G:O2'	34:B:303:HOH:O	2.15	0.64
6:F:74:LYS:O	6:F:84:LYS:NZ	2.29	0.64
7:G:137:ASP:HB3	7:G:140:LYS:HB2	1.78	0.64
1:a:186:A:N6	1:a:2442:A:O2'	2.30	0.64
1:a:212:A:H61	1:a:401:A:H4'	1.62	0.64
1:a:503:A:OP1	1:a:526:A:N6	2.29	0.64
1:a:808:A:N6	34:a:4801:HOH:O	2.30	0.64
1:a:1740:U:H1'	3:c:14:ARG:HH12	1.61	0.64
16:p:45:TYR:O	16:p:49:HIS:ND1	2.30	0.64
24:x:17:SER:OG	24:x:20:GLU:OE2	2.15	0.64
1:A:250:G:HO2'	1:A:633:G:HO2'	1.45	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:515:G:N7	18:R:49:LYS:NZ	2.45	0.64
1:A:2708:U:H2'	1:A:2709:G:C8	2.33	0.64
1:a:2826:C:O3'	13:m:99:LYS:NZ	2.25	0.64
31:9:20:HIS:NE2	34:9:201:HOH:O	2.30	0.64
1:A:195:U:H2'	1:A:196:A:H8	1.63	0.64
1:A:1108:G:N3	1:A:1134:A:N6	2.45	0.64
1:A:2080:A:H5''	1:A:2081:A:OP2	1.98	0.64
1:A:2815:C:H2'	1:A:2816:G:H8	1.60	0.64
13:M:96:ARG:NH1	13:M:115:GLU:OE1	2.30	0.64
1:a:1355:G:O2'	1:a:1657:C:O2'	2.16	0.64
1:a:1411:A:P	23:w:41:ARG:HH12	2.20	0.64
1:a:2592:U:O2'	34:a:4766:HOH:O	2.14	0.64
1:A:1525:G:H2'	1:A:1526:G:H8	1.62	0.64
1:A:2172:U:H2'	1:A:2173:G:H8	1.62	0.64
1:a:1051:C:H2'	1:a:1052:C:C6	2.33	0.64
1:a:1379:C:H2'	1:a:1380:G:H8	1.62	0.64
1:a:2298:A:OP2	28:6:29:ASN:ND2	2.23	0.64
1:a:2877:G:OP2	15:o:119:LYS:NZ	2.26	0.64
12:l:132:VAL:HG21	21:u:81:ARG:NH1	2.12	0.64
1:A:175:G:H2'	1:A:176:G:C8	2.32	0.64
1:A:348:A:O2'	34:A:4449:HOH:O	2.15	0.64
1:A:559:U:O2	1:A:582:G:N2	2.28	0.64
16:P:85:LYS:HZ3	16:P:117:GLN:HA	1.62	0.64
23:W:85:LEU:HB3	23:W:89:GLU:HG3	1.79	0.64
3:C:24:ILE:HD13	3:C:84:TYR:HB2	1.80	0.64
1:a:1065:U:O2'	1:a:1067:A:N7	2.30	0.64
6:f:47:LYS:NZ	6:f:81:LYS:NZ	2.45	0.64
20:t:92:ASN:N	20:t:93:GLY:HA2	2.11	0.64
23:w:56:GLN:HB3	23:w:87:PRO:HG3	1.77	0.64
28:6:8:LYS:HB2	28:6:54:ILE:HG21	1.80	0.64
1:A:792:G:O6	1:A:793:A:N6	2.30	0.64
1:A:2325:C:H2'	1:A:2326:C:C6	2.32	0.64
3:C:260:ARG:HH12	3:C:270:ILE:CD1	2.11	0.64
9:I:17:ASP:HB3	9:I:137:LYS:HZ1	1.61	0.64
1:a:143:C:O3'	19:s:2:LYS:NZ	2.29	0.64
1:a:539:A:N3	1:a:604:C:O2'	2.26	0.64
1:a:853:C:OP2	11:k:41:ARG:NH2	2.31	0.64
1:a:1324:A:O2'	13:m:27:SER:OG	2.10	0.64
1:A:151:C:H2'	1:A:152:G:H8	1.60	0.64
1:A:1546:G:H4'	3:C:102:LYS:HZ3	1.63	0.64
1:A:2501:G:O2'	1:A:2530:A:N6	2.30	0.64

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2867:G:N2	1:A:2870:A:OP2	2.29	0.64
4:d:167:VAL:HG12	4:d:170:LEU:HD11	1.79	0.64
21:u:30:ASN:HB3	21:u:90:VAL:HB	1.80	0.64
1:A:1469:G:H2'	1:A:1470:G:H8	1.63	0.64
1:A:1700:G:H1'	1:A:1701:A:OP2	1.97	0.64
1:A:1861:C:H2'	1:A:1862:G:C8	2.33	0.64
1:A:2102:G:H5'	23:W:19:GLN:HG3	1.78	0.64
7:G:20:ALA:HB3	7:G:23:ARG:HG2	1.79	0.64
1:a:514:G:N2	1:a:517:A:OP2	2.30	0.64
1:a:646:A:H3'	1:a:647:G:H8	1.63	0.64
1:a:753:A:N6	1:a:772:G:O2'	2.31	0.64
1:a:2555:G:H2'	1:a:2556:G:C8	2.33	0.64
1:A:276:C:H2'	1:A:277:G:C8	2.32	0.64
1:A:601:A:OP1	1:A:1301:U:O2'	2.15	0.64
1:A:722:A:N3	1:A:2455:C:O2'	2.31	0.64
1:A:1835:C:OP1	3:C:259:THR:OG1	2.14	0.64
1:a:1011:G:H4'	1:a:2283:G:N2	2.12	0.64
1:a:1332:A:O2'	1:a:1334:U:OP2	2.09	0.64
1:a:2343:G:H4'	22:v:43:THR:H	1.63	0.64
1:A:533:G:O2'	34:A:4450:HOH:O	2.15	0.63
1:a:1411:A:OP1	23:w:41:ARG:NH1	2.31	0.63
1:a:2469:U:H3	1:a:2506:G:H1	1.46	0.63
2:b:115:G:O2'	14:n:50:SER:OG	2.15	0.63
1:A:563:G:H2'	1:A:564:G:H8	1.62	0.63
1:A:2035:A:H2	18:R:88:ARG:HH22	1.46	0.63
1:a:823:G:N1	1:a:2094:G:OP1	2.21	0.63
3:C:4:LYS:HG3	3:C:18:VAL:HG23	1.79	0.63
1:a:2564:2MU:H2'	1:a:2566:U:OP2	1.97	0.63
10:j:77:ILE:HB	15:o:74:ARG:HD3	1.79	0.63
1:A:866:A:OP2	1:A:1232:G:N2	2.30	0.63
13:M:28:LEU:HD23	13:M:34:ILE:HG12	1.79	0.63
1:a:355:A:N6	1:a:1255:A:OP2	2.32	0.63
1:a:1327:G:H2'	1:a:1328:U:C6	2.34	0.63
1:a:1764:G:H1	1:a:1772:C:H42	1.44	0.63
1:a:2588:G:O2'	1:a:2591:C:OP2	2.15	0.63
20:t:97:ARG:HB2	20:t:106:LEU:HB2	1.80	0.63
1:A:598:A:H5'	1:A:2077:C:H5	1.64	0.63
1:A:623:G:H1	1:A:704:U:H3	1.47	0.63
1:A:1385:G:O3'	19:S:16:LYS:NZ	2.31	0.63
6:F:32:PRO:HB3	6:F:163:ALA:HB2	1.79	0.63
10:J:18:LYS:HB2	10:J:45:GLU:HB3	1.79	0.63

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:73:GLN:HB3	21:U:87:ASP:HB2	1.81	0.63
1:a:713:G:H4'	11:k:49:ARG:HH12	1.62	0.63
1:a:1296:G:OP1	11:k:21:ARG:NH1	2.32	0.63
1:a:1933:PSU:H1'	1:a:1934:A:OP2	1.98	0.63
31:9:12:ASP:N	31:9:12:ASP:OD1	2.29	0.63
1:A:179:A:H3'	1:A:193:A:H61	1.63	0.63
1:A:736:A:H2'	1:A:737:G:C8	2.33	0.63
1:A:1152:G:H2'	1:A:1153:G:H8	1.64	0.63
1:A:1945:U:H2'	1:A:1946:C:C6	2.33	0.63
2:B:76:G:O2'	21:U:84:GLU:OE1	2.16	0.63
15:O:23:ARG:NH1	15:O:120:ARG:HD3	2.14	0.63
1:a:2551:C:H4'	31:9:35:ARG:HH12	1.64	0.63
4:d:125:GLY:HA3	4:d:134:ILE:HD12	1.81	0.63
1:A:1704:C:H2'	1:A:1705:C:C6	2.33	0.63
1:A:2596:U:H2'	1:A:2597:U:H2'	1.79	0.63
6:F:44:GLY:HA2	6:F:88:ILE:HB	1.81	0.63
18:R:25:ARG:NH2	18:R:74:ALA:O	2.32	0.63
1:a:1627:A:H3'	1:a:1628:G:C8	2.34	0.63
6:f:139:LEU:HD21	6:f:149:VAL:HG11	1.81	0.63
6:f:170:ARG:NH2	6:f:182:LYS:O	2.32	0.63
7:g:3:ARG:HH12	7:g:65:HIS:HB3	1.64	0.63
12:l:63:LYS:NZ	21:u:176:PRO:O	2.26	0.63
17:q:76:LYS:HB2	17:q:81:TYR:HB3	1.80	0.63
18:r:22:ASP:HA	18:r:25:ARG:HH12	1.63	0.63
20:t:5:MET:HE1	20:t:32:PRO:HA	1.81	0.63
1:a:211:A:H61	1:a:221:G:H1'	1.63	0.63
1:a:854:U:O2'	1:a:2082:A:N1	2.30	0.63
1:a:892:G:OP2	1:a:892:G:N2	2.21	0.63
1:a:1669:G:H2'	1:a:1670:G:H8	1.63	0.63
7:g:52:VAL:O	7:g:65:HIS:NE2	2.32	0.63
1:A:1829:U:O2'	1:A:1833:A:N3	2.32	0.63
1:A:2541:G:OP2	1:A:2542:A:H5''	1.99	0.63
1:a:661:G:OP1	11:k:132:LYS:NZ	2.30	0.63
1:a:1329:G:N2	1:a:1332:A:OP2	2.32	0.63
6:f:95:ARG:O	6:f:99:MET:N	2.32	0.63
1:A:2187:G:H2'	1:A:2188:G:C8	2.34	0.62
5:E:119:ARG:NH2	34:E:403:HOH:O	2.28	0.62
1:A:37:C:H2'	1:A:38:A:H8	1.64	0.62
1:A:235:C:H4'	1:A:412:C:H1'	1.81	0.62
1:A:597:C:N3	4:D:145:LYS:NZ	2.39	0.62
1:A:1435:G:H1	1:A:1444:C:H42	1.47	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2399:U:O2'	22:V:41:ARG:NH2	2.32	0.62
1:A:2661:U:H2'	1:A:2662:U:C6	2.34	0.62
21:U:5:LEU:O	21:U:59:LEU:HA	1.98	0.62
1:a:1040:C:OP1	16:p:53:ARG:NH2	2.32	0.62
1:a:1736:A:OP2	1:a:1745:A:N6	2.31	0.62
1:A:895:G:H2'	1:A:896:A:C8	2.33	0.62
4:D:34:VAL:HG12	4:D:72:VAL:HG11	1.80	0.62
4:D:199:ARG:NH1	4:D:202:LYS:NZ	2.40	0.62
1:a:494:G:H4'	5:e:62:ARG:HH12	1.64	0.62
1:a:625:G:HO2'	1:a:627:G:HO2'	1.44	0.62
1:a:1963:C:N4	1:a:1987:C:O4'	2.32	0.62
1:a:1969:C:H2'	1:a:1970:G:C8	2.34	0.62
22:v:23:VAL:HG22	22:v:38:VAL:HG13	1.80	0.62
1:A:155:C:H42	1:A:160:G:H1	1.46	0.62
1:A:964:A:N3	2:B:80:U:O2'	2.32	0.62
1:A:2121:U:H3	1:A:2212:G:H1	1.47	0.62
1:a:47:G:N2	1:a:166:G:OP2	2.33	0.62
1:a:1036:A:O2'	1:a:1038:C:OP1	2.18	0.62
1:a:1373:C:H3'	1:a:1374:G:C8	2.35	0.62
1:a:2539:C:N4	34:a:4815:HOH:O	2.33	0.62
1:a:2657:G:OP1	1:a:2745:G:N2	2.32	0.62
1:a:2812:A:H1'	1:a:2904:U:H1'	1.81	0.62
1:A:1372:U:O2'	1:A:2032:G:O2'	2.18	0.62
1:a:173:C:H2'	1:a:174:U:H6	1.65	0.62
1:a:2045:G:H5'	1:a:2629:C:H4'	1.82	0.62
1:a:2504:U:H2'	1:a:2505:U:C6	2.35	0.62
12:l:29:PHE:N	12:l:105:GLU:OE2	2.26	0.62
1:A:94:G:H4'	24:X:46:GLN:HA	1.81	0.62
1:A:1909:C:H5''	1:A:1910:G:OP2	1.99	0.62
1:A:2244:U:OP2	23:W:40:ARG:NH1	2.31	0.62
1:A:2559:U:H2'	1:A:2560:G:C8	2.34	0.62
23:W:19:GLN:NE2	34:W:202:HOH:O	2.33	0.62
24:X:57:ILE:O	24:X:61:LEU:HB2	1.98	0.62
25:Y:8:LEU:HB2	25:Y:28:LEU:HD13	1.82	0.62
29:2:46:VAL:HG22	29:2:48:LYS:H	1.65	0.62
1:a:1400:A:H3'	1:a:1401:G:H8	1.65	0.62
1:a:1452:U:H2'	1:a:1453:C:C6	2.35	0.62
1:A:64:C:H5'	19:S:71:GLY:HA3	1.82	0.62
1:A:732:A:OP1	1:A:733:G:N2	2.32	0.62
1:A:1711:A:H1'	1:A:2697:G:H4'	1.81	0.62
1:A:2737:C:OP1	4:D:111:ARG:NH1	2.33	0.62

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:24:G:N1	1:a:541:C:N3	2.36	0.62
1:a:30:G:H2'	1:a:31:C:C6	2.33	0.62
1:a:1017:G:OP2	1:a:1019:G:H3'	2.00	0.62
21:u:45:ASP:OD2	21:u:49:ARG:NH1	2.33	0.62
1:A:967:G:H4'	1:A:2281:A:C5	2.35	0.62
5:E:39:TRP:NE1	5:E:99:TYR:O	2.31	0.62
7:G:3:ARG:NH1	7:G:54:ARG:NH1	2.47	0.62
11:K:38:GLN:NE2	34:K:302:HOH:O	2.32	0.62
1:a:218:A:H5''	1:a:219:U:H5'	1.80	0.62
1:A:2071:G:N2	4:D:156:MET:SD	2.73	0.62
1:A:2152:U:O2'	1:A:2155:G:O2'	2.18	0.62
1:A:2877:G:OP2	15:O:119:LYS:NZ	2.32	0.62
6:F:33:ARG:H	6:F:162:THR:HG1	1.48	0.62
1:a:555:G:N1	1:a:2045:G:OP1	2.27	0.62
1:a:2297:C:OP1	28:6:29:ASN:ND2	2.33	0.62
1:a:2589:A:OP2	27:5:3:LYS:NZ	2.33	0.62
1:a:2692:C:H1'	4:d:187:ALA:HB1	1.82	0.62
15:o:22:PHE:HA	15:o:91:ARG:NH1	2.14	0.62
29:7:9:ARG:NH2	34:7:202:HOH:O	2.32	0.62
1:A:494:G:O2'	5:E:62:ARG:NH2	2.33	0.62
1:A:1699:A:N6	13:M:11:ASN:OD1	2.30	0.62
7:G:74:ASN:O	7:G:83:TYR:OH	2.18	0.62
20:T:17:SER:HB3	20:T:71:LYS:HZ2	1.64	0.62
1:a:867:A:H4'	1:a:883:G:N2	2.15	0.62
3:c:89:SER:O	3:c:91:ARG:NH1	2.33	0.62
1:A:280:C:H2'	1:A:281:G:H8	1.65	0.61
3:C:146:GLU:HA	3:C:153:ALA:HA	1.82	0.61
4:D:117:MET:HA	4:D:122:PHE:HB2	1.82	0.61
15:O:73:GLU:OE2	15:O:103:ARG:NH2	2.33	0.61
1:a:2578:A:O2'	34:a:4765:HOH:O	2.14	0.61
13:m:28:LEU:HD23	13:m:34:ILE:HG12	1.82	0.61
15:o:53:ARG:NH1	15:o:60:THR:OG1	2.33	0.61
16:p:105:VAL:HG13	17:q:45:THR:HG21	1.82	0.61
31:4:25:VAL:HB	31:4:34:GLN:HB2	1.82	0.61
1:a:867:A:H4'	1:a:883:G:H22	1.65	0.61
1:a:2830:A:OP2	13:m:2:ARG:NH2	2.33	0.61
2:b:49:C:H2'	2:b:50:G:H8	1.64	0.61
7:g:89:ILE:HB	7:g:129:THR:HA	1.82	0.61
1:A:1821:C:H2'	1:A:1822:A:C8	2.35	0.61
1:A:1933:PSU:H1'	1:A:1934:A:OP2	2.00	0.61
1:A:1943:G:H2'	1:A:1944:G:C8	2.35	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:36:GLY:HA3	10:J:109:LYS:HG3	1.82	0.61
12:L:39:PRO:HB3	12:L:99:PRO:HD3	1.83	0.61
18:R:12:ILE:O	18:R:101:SER:OG	2.18	0.61
1:a:29:U:O2	1:a:1260:G:O2'	2.17	0.61
1:a:289:G:H2'	1:a:290:G:C8	2.35	0.61
1:a:346:A:O2'	1:a:347:G:N2	2.33	0.61
1:a:992:G:H2'	1:a:993:G:C8	2.34	0.61
1:a:1861:C:H2'	1:a:1862:G:C8	2.35	0.61
1:a:1880:G:H2'	1:a:1881:G:H8	1.64	0.61
2:b:40:U:N3	2:b:44:G:OP2	2.24	0.61
5:e:158:THR:OG1	5:e:195:ASP:OD2	2.14	0.61
9:i:32:THR:HG23	9:i:37:LYS:HB2	1.81	0.61
1:A:1343:C:H2'	1:A:1344:C:H6	1.64	0.61
1:A:1566:U:H5''	1:A:1567:G:OP2	2.00	0.61
1:A:1747:A:H3'	1:A:1748:A:H8	1.65	0.61
1:A:2225:U:H2'	1:A:2226:C:C6	2.36	0.61
1:A:2297:C:OP2	28:13:26:ASN:ND2	2.33	0.61
3:C:151:LYS:O	3:C:154:LYS:NZ	2.26	0.61
10:J:76:ALA:HB3	15:O:75:ILE:HB	1.80	0.61
22:V:17:GLN:O	22:V:19:LYS:NZ	2.32	0.61
1:a:825:G:OP1	3:c:48:ARG:NH1	2.33	0.61
1:a:906:G:N2	1:a:963:A:OP2	2.24	0.61
1:a:1614:A:OP1	3:c:60:ARG:NE	2.30	0.61
1:a:2584:A:OP2	4:d:144:ARG:HB3	2.00	0.61
1:a:2617:PSU:H1'	1:a:2618:C:OP2	2.00	0.61
7:g:103:LEU:HD13	7:g:125:VAL:HG21	1.81	0.61
10:j:92:GLU:HG2	10:j:113:LYS:NZ	2.15	0.61
1:A:479:C:H4'	1:A:498:A:H61	1.64	0.61
1:A:2253:A:H2'	1:A:2254:G:C8	2.34	0.61
19:S:32:PRO:HA	19:S:77:LYS:HD2	1.82	0.61
1:a:321:C:H5''	20:t:87:LYS:HG3	1.81	0.61
1:a:2515:2MA:O2'	1:a:2517:G:OP2	2.13	0.61
1:a:2534:U:O2'	1:a:2659:U:OP1	2.12	0.61
11:k:80:TYR:OH	11:k:111:ARG:NH1	2.33	0.61
1:A:142:G:H2'	1:A:143:C:H6	1.65	0.61
1:A:2693:C:O2	1:A:2738:A:N6	2.34	0.61
3:C:247:ALA:HA	3:C:253:GLN:HA	1.81	0.61
1:a:1653:C:N4	1:a:1668:G:OP2	2.34	0.61
1:a:1658:C:O2'	29:7:5:TRP:O	2.17	0.61
1:a:2710:U:H2'	1:a:2711:C:C6	2.35	0.61
17:q:66:ARG:NH2	34:q:301:HOH:O	2.34	0.61

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:277:G:H2'	1:A:278:G:C8	2.36	0.61
1:A:414:U:OP2	23:W:20:ARG:NH2	2.33	0.61
1:A:561:A:H2'	1:A:562:C:C6	2.36	0.61
1:A:580:U:O2'	9:I:45:ASN:O	2.18	0.61
1:A:712:C:H2'	1:A:713:G:H8	1.64	0.61
1:A:1577:C:O2'	1:A:1578:C:H6	1.83	0.61
1:A:1594:C:H2'	1:A:1595:C:C6	2.36	0.61
1:A:1817:A:OP1	1:A:2002:G:N2	2.33	0.61
1:A:2340:A:H2'	1:A:2341:G:H8	1.65	0.61
1:a:1868:C:O2'	1:a:1949:A:N3	2.29	0.61
1:a:2695:C:OP1	15:o:53:ARG:NH2	2.32	0.61
1:A:2707:C:H2'	1:A:2708:U:H6	1.65	0.61
4:D:51:PHE:HD2	4:D:77:ILE:HD11	1.66	0.61
21:U:63:ASP:OD2	21:U:65:GLN:NE2	2.34	0.61
1:a:78:G:H1	1:a:105:C:H42	1.49	0.61
1:a:2351:G:H2'	1:a:2352:G:C8	2.36	0.61
5:e:43:LYS:HZ2	5:e:44:ARG:HB3	1.65	0.61
1:A:467:U:H2'	1:A:468:G:C8	2.36	0.61
1:a:653:G:H2'	1:a:654:G:H8	1.65	0.61
1:a:1086:C:H2'	1:a:1087:C:O4'	2.01	0.61
1:a:1426:G:O2'	1:a:1616:A:N6	2.34	0.61
1:a:1431:G:O2'	1:a:1442:U:O2	2.19	0.61
7:g:122:THR:HB	7:g:134:SER:HB2	1.82	0.61
1:A:83:A:N7	1:A:98:U:N3	2.49	0.61
1:A:1465:A:O2'	1:A:1467:G:N7	2.27	0.61
4:D:92:THR:OG1	4:D:93:VAL:N	2.31	0.61
4:D:199:ARG:NH1	4:D:202:LYS:HZ1	1.97	0.61
1:a:283:G:H5''	1:a:284:G:OP2	2.01	0.61
1:a:1434:G:N2	1:a:1445:C:O2	2.30	0.61
1:a:1835:C:N3	1:a:1844:G:N1	2.44	0.61
1:a:1847:G:N2	34:a:4818:HOH:O	2.34	0.61
1:a:2014:G:N2	1:a:2018:C:O2	2.33	0.61
1:a:2325:C:H4'	6:f:91:ARG:HG3	1.82	0.61
18:r:36:LEU:HD11	18:r:47:VAL:HG13	1.83	0.61
21:u:75:ASN:HB2	21:u:85:HIS:HB3	1.82	0.61
1:A:831:A:C5	3:C:229:VAL:HG21	2.36	0.60
1:A:1963:C:N4	1:A:1987:C:O4'	2.34	0.60
6:F:119:GLY:HA3	6:F:181:ARG:HB3	1.83	0.60
17:Q:74:LYS:HB2	17:Q:83:ARG:HB2	1.83	0.60
1:a:291:G:H1	1:a:394:C:H42	1.48	0.60
1:a:1189:A:OP1	9:i:25:ARG:NH2	2.34	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1973:U:C2	1:a:1975:A:OP2	2.54	0.60
20:t:7:VAL:HG21	20:t:72:VAL:HG13	1.83	0.60
1:A:560:C:O3'	16:P:53:ARG:NH1	2.34	0.60
1:A:900:G:H2'	1:A:901:G:H8	1.66	0.60
1:A:1381:U:H2'	1:A:1382:A:C8	2.36	0.60
1:A:2388:A:N3	14:N:106:ARG:NH2	2.49	0.60
1:A:2534:U:O2'	1:A:2659:U:OP1	2.16	0.60
10:J:13:ASN:ND2	10:J:96:THR:OG1	2.33	0.60
12:L:77:LYS:NZ	12:L:86:GLY:O	2.35	0.60
1:a:1368:A:O3'	18:r:84:ARG:NH2	2.34	0.60
13:m:10:LEU:O	13:m:12:ARG:NH1	2.34	0.60
1:A:53:G:H1'	29:2:35:ARG:HH12	1.66	0.60
1:A:1040:C:H3'	16:P:54:LYS:NZ	2.16	0.60
1:A:1089:C:N4	1:A:1158:G:O6	2.27	0.60
1:A:1594:C:H2'	1:A:1595:C:H6	1.66	0.60
1:A:1604:C:OP2	1:A:1605:A:O2'	2.18	0.60
1:A:2274:U:OP1	22:V:41:ARG:NH2	2.34	0.60
15:O:27:THR:HB	15:O:89:VAL:HG13	1.83	0.60
19:S:40:LYS:HG3	19:S:51:VAL:HB	1.83	0.60
26:Z:2:LYS:HB2	26:Z:6:HIS:HD2	1.66	0.60
1:a:187:C:H4'	1:a:2255:U:H4'	1.84	0.60
1:a:776:G:OP1	3:c:12:SER:OG	2.18	0.60
1:a:1247:C:HO2'	5:e:184:TYR:HH	1.48	0.60
1:a:2602:A:H5'	3:c:239:ARG:HG3	1.83	0.60
1:A:604:C:H2'	1:A:605:G:H8	1.65	0.60
1:A:1143:U:H3'	1:A:1144:A:H8	1.65	0.60
2:B:92:C:H5''	21:U:79:ARG:NH1	2.17	0.60
6:F:137:GLU:HG3	6:F:140:ILE:HD13	1.83	0.60
1:a:1192:C:O2'	34:a:4764:HOH:O	2.11	0.60
1:a:1383:G:N7	19:s:62:LYS:NZ	2.49	0.60
1:a:1532:A:H2'	1:a:1533:G:C8	2.36	0.60
1:a:2541:G:OP2	1:a:2542:A:H8	1.84	0.60
10:j:33:ALA:HB1	10:j:37:ASP:HB2	1.82	0.60
1:A:1609:A:H2'	1:A:1610:G:C8	2.36	0.60
1:A:1802:C:H2'	1:A:1803:G:C8	2.36	0.60
1:A:2020:G:OP2	4:D:136:ARG:NH2	2.22	0.60
1:A:2317:A:C6	6:F:153:ARG:HA	2.36	0.60
1:A:2375:C:O2	22:V:39:ARG:NH2	2.33	0.60
1:a:901:G:H2'	1:a:902:G:C8	2.37	0.60
1:a:1435:G:H2'	1:a:1436:U:C6	2.36	0.60
1:a:2050:U:H2'	1:a:2051:G:C8	2.37	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:52:A:OP2	2:b:52:A:H8	1.84	0.60
3:c:87:ASN:HB3	3:c:88:ARG:NH1	2.16	0.60
5:e:155:LEU:HB2	5:e:189:THR:HG21	1.83	0.60
1:A:1766:G:N1	1:A:1768:U:OP2	2.35	0.60
5:E:53:THR:OG1	5:E:54:ARG:N	2.34	0.60
1:a:291:G:H2'	1:a:292:G:H8	1.66	0.60
1:a:1634:C:H2'	1:a:1635:C:H6	1.66	0.60
1:a:1943:G:H2'	1:a:1944:G:H8	1.65	0.60
1:a:2103:C:H2'	1:a:2104:A:C8	2.36	0.60
4:d:101:ARG:NH1	4:d:171:GLU:HB2	2.16	0.60
5:e:57:VAL:HG13	5:e:59:TYR:H	1.66	0.60
5:e:148:LEU:HD13	5:e:154:VAL:HG21	1.83	0.60
11:k:100:LEU:HB2	11:k:106:LEU:HD12	1.84	0.60
14:n:61:ASN:O	14:n:65:VAL:HB	2.02	0.60
18:r:35:ILE:HG23	27:5:28:PRO:HD2	1.83	0.60
19:s:8:ILE:HD11	19:s:43:VAL:HG22	1.83	0.60
19:s:87:GLN:NE2	34:s:201:HOH:O	2.34	0.60
1:A:587:C:H5''	17:Q:75:PHE:HZ	1.64	0.60
1:A:1076:G:OP2	12:L:128:LYS:NZ	2.32	0.60
1:A:1469:G:H2'	1:A:1470:G:C8	2.37	0.60
1:A:2480:G:O2'	1:A:2493:G:N2	2.29	0.60
1:A:2640:C:O2'	1:A:2795:G:OP1	2.16	0.60
10:J:9:GLU:O	10:J:83:ALA:HA	2.02	0.60
1:a:263:C:H2'	1:a:264:G:C8	2.36	0.60
1:a:632:A:C2	1:a:633:G:H1'	2.37	0.60
1:a:1615:G:OP2	3:c:63:ARG:NH2	2.34	0.60
1:a:1618:A:H2'	1:a:1619:A:C8	2.36	0.60
1:a:2749:G:H2'	1:a:2750:G:H8	1.67	0.60
10:j:106:LEU:HB3	10:j:111:PHE:HB2	1.82	0.60
14:n:23:ARG:NH2	14:n:84:GLN:OE1	2.34	0.60
1:A:98:U:OP1	1:A:99:G:O2'	2.17	0.60
11:K:116:GLY:O	11:K:137:LYS:NZ	2.27	0.60
14:N:27:SER:HB3	14:N:38:GLN:HG3	1.83	0.60
1:a:957:A:O2'	1:a:2275:C:O2'	2.17	0.60
7:g:46:GLU:OE2	7:g:51:ARG:NE	2.34	0.60
1:A:238:C:OP2	1:A:2406:C:O2'	2.20	0.60
1:A:1288:A:H8	1:A:1288:A:OP2	1.84	0.60
1:A:1304:C:H2'	1:A:1305:G:C8	2.37	0.60
1:a:1013:G:H2'	1:a:1014:U:C6	2.37	0.60
1:a:1455:C:H2'	1:a:1456:G:H8	1.67	0.60
1:a:1501:U:OP2	13:m:77:ARG:HD3	2.01	0.60

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2121:U:H3	1:a:2212:G:H1	1.49	0.60
2:b:28:C:H2'	2:b:29:A:C8	2.36	0.60
2:b:49:C:H2'	2:b:50:G:C8	2.37	0.60
15:O:31:SER:OG	15:O:85:LYS:N	2.33	0.60
21:U:19:ARG:HH11	21:U:84:GLU:HB2	1.67	0.60
1:a:329:U:H2'	1:a:330:U:C6	2.36	0.60
1:a:968:U:O2'	22:v:29:GLN:OE1	2.20	0.60
1:a:1037:C:OP2	1:a:1231:G:OP2	2.20	0.60
1:a:1718:U:N3	1:a:1721:G:OP2	2.30	0.60
1:a:2769:U:H3	1:a:2771:A:H62	1.49	0.60
28:6:16:CYS:HB2	28:6:18:ARG:HH11	1.67	0.60
1:A:242:C:OP2	30:3:5:LYS:NZ	2.27	0.59
1:A:277:G:O2'	23:W:76:ARG:O	2.16	0.59
1:A:823:G:N1	1:A:2094:G:OP1	2.34	0.59
1:A:854:U:OP2	11:K:41:ARG:NH2	2.35	0.59
9:I:65:LYS:HB3	9:I:69:GLN:HG3	1.84	0.59
20:T:79:CYS:HB2	20:T:81:LYS:NZ	2.17	0.59
1:a:327:U:H2'	1:a:328:G:H8	1.67	0.59
1:a:349:G:H2'	1:a:350:G:H8	1.66	0.59
1:a:581:G:H2'	1:a:582:G:H8	1.66	0.59
1:a:2009:G:O2'	34:a:4769:HOH:O	2.16	0.59
2:b:77:U:OP1	21:u:19:ARG:NH2	2.35	0.59
1:A:211:A:H8	1:A:447:C:H4'	1.65	0.59
1:A:1324:A:O2'	13:M:27:SER:OG	2.17	0.59
19:S:8:ILE:O	24:X:36:ARG:NH2	2.35	0.59
19:S:61:GLY:HA2	19:S:76:ARG:HH11	1.66	0.59
29:2:34:ARG:NH1	29:2:42:LEU:HA	2.17	0.59
31:4:27:CYS:SG	31:4:28:GLU:N	2.75	0.59
1:a:1074:A:OP2	1:a:1172:A:N6	2.36	0.59
1:a:1521:C:H2'	1:a:1522:G:C8	2.36	0.59
1:a:2456:G:P	5:e:68:LYS:HZ2	2.24	0.59
6:f:62:LEU:HB3	26:z:28:LYS:NZ	2.17	0.59
10:j:23:ARG:NH2	10:j:28:SER:O	2.35	0.59
10:j:68:GLU:OE2	10:j:78:ARG:NH1	2.35	0.59
18:r:82:LEU:HB3	18:r:84:ARG:NH1	2.17	0.59
1:A:414:U:P	23:W:20:ARG:HH12	2.26	0.59
1:A:521:G:H3'	1:A:522:A:H8	1.68	0.59
1:a:581:G:H2'	1:a:582:G:C8	2.37	0.59
1:a:1014:U:H5'	25:y:16:PRO:HA	1.84	0.59
1:a:1700:G:OP1	1:a:2832:G:N2	2.35	0.59
1:a:2602:A:OP2	3:c:238:GLY:HA2	2.01	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:110:GLY:HA2	4:d:161:GLY:HA3	1.83	0.59
5:e:43:LYS:NZ	5:e:44:ARG:HB3	2.17	0.59
6:f:3:LEU:N	6:f:97:ASP:OD2	2.35	0.59
7:g:54:ARG:NH1	7:g:62:LYS:HA	2.17	0.59
28:6:12:GLU:HA	28:6:19:ARG:HA	1.83	0.59
1:A:776:G:OP2	3:C:13:ARG:HD3	2.02	0.59
1:A:2584:A:OP2	4:D:144:ARG:HB3	2.03	0.59
1:A:2667:G:N2	1:A:2677:A:OP2	2.35	0.59
3:C:84:TYR:OH	34:C:401:HOH:O	2.16	0.59
20:T:86:ARG:NH1	20:T:100:ALA:HA	2.17	0.59
1:a:1047:A:N6	1:a:1200:G:H21	1.97	0.59
1:a:1207:C:H2'	1:a:1208:G:H8	1.67	0.59
1:a:2230:U:H5''	1:a:2231:G:H8	1.66	0.59
1:a:2575:U:N3	1:a:2578:A:OP2	2.33	0.59
6:f:47:LYS:NZ	6:f:81:LYS:HZ2	2.00	0.59
9:i:15:LEU:HD23	9:i:53:VAL:HB	1.84	0.59
1:A:195:U:H2'	1:A:196:A:C8	2.37	0.59
1:A:612:C:H5''	5:E:95:ARG:NH1	2.17	0.59
1:A:1074:A:H2'	1:A:1075:A:C8	2.37	0.59
1:A:1969:C:H2'	1:A:1970:G:H8	1.67	0.59
1:A:2484:G:H3'	1:A:2487:C:H42	1.67	0.59
14:N:67:ARG:HB3	14:N:71:ARG:HH12	1.67	0.59
1:a:927:G:H2'	1:a:928:G:H8	1.66	0.59
1:a:2187:G:H2'	1:a:2188:G:C8	2.38	0.59
1:A:321:C:H5''	20:T:87:LYS:HG3	1.85	0.59
1:A:822:G:H4'	1:A:823:G:H5'	1.85	0.59
1:A:855:G:H2'	1:A:856:G:C8	2.38	0.59
1:A:1852:A:H2'	1:A:1853:G:C8	2.38	0.59
5:E:165:ARG:HA	5:E:168:ARG:HD2	1.83	0.59
28:13:25:LYS:NZ	28:13:51:GLU:OE2	2.25	0.59
1:a:1042:A:H5'	16:p:93:LYS:HD2	1.84	0.59
1:a:2671:G:N2	1:a:2674:A:OP2	2.34	0.59
1:A:1277:G:H2'	1:A:1278:G:H8	1.68	0.59
1:A:1339:C:H2'	1:A:1340:U:H6	1.67	0.59
1:A:1857:G:H4'	3:C:242:ARG:HH11	1.67	0.59
2:B:49:C:H2'	2:B:50:G:C8	2.37	0.59
4:D:8:LYS:NZ	4:D:188:VAL:O	2.28	0.59
5:E:57:VAL:HG13	5:E:59:TYR:H	1.66	0.59
1:a:79:G:H1	1:a:104:C:H42	1.49	0.59
1:a:1298:G:OP2	16:p:14:HIS:NE2	2.29	0.59
1:a:1324:A:H2'	1:a:1325:G:C8	2.37	0.59

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2136:A:O2'	1:a:2189:U:O3'	2.18	0.59
1:a:2325:C:H2'	1:a:2326:C:C6	2.38	0.59
1:a:2549:U:H2'	1:a:2550:C:H6	1.68	0.59
13:m:79:LEU:HA	13:m:83:ILE:HB	1.83	0.59
1:A:1607:G:H2'	1:A:1608:G:C8	2.38	0.59
1:A:2062:C:H2'	1:A:2063:U:C6	2.38	0.59
6:F:36:LYS:HB3	6:F:95:ARG:NH1	2.18	0.59
20:T:98:VAL:HA	20:T:105:ALA:HA	1.84	0.59
25:Y:40:THR:O	25:Y:44:ARG:HB2	2.03	0.59
1:a:2304:C:H2'	1:a:2305:C:C6	2.37	0.59
1:a:2412:G:H4'	28:6:18:ARG:HG2	1.85	0.59
1:A:406:G:N2	1:A:422:U:O2	2.32	0.59
1:A:604:C:H2'	1:A:605:G:C8	2.38	0.59
1:A:2611:G:OP2	1:A:2611:G:H8	1.85	0.59
3:C:168:ARG:HG2	3:C:173:VAL:HB	1.85	0.59
11:K:51:PHE:O	30:3:57:ARG:NH2	2.36	0.59
14:N:25:ARG:NH1	14:N:42:ASP:OD2	2.36	0.59
1:a:240:A:C5	1:a:241:G:H1'	2.38	0.59
1:a:1298:G:OP1	16:p:36:ARG:NH2	2.36	0.59
1:a:1542:A:O2'	1:a:1543:U:O2	2.18	0.59
12:l:31:ASP:HA	12:l:134:ARG:NH1	2.15	0.59
1:A:1218:G:O2'	1:A:1219:A:O5'	2.21	0.59
1:A:1769:G:H2'	1:A:1770:A:H8	1.68	0.59
1:A:1939:PSU:H1'	1:A:1940:A:OP2	2.03	0.59
1:A:2707:C:H2'	1:A:2708:U:C6	2.38	0.59
7:G:70:THR:O	7:G:74:ASN:ND2	2.36	0.59
17:Q:58:VAL:O	17:Q:97:LYS:HB2	2.03	0.59
1:a:345:G:O2'	1:a:364:A:N3	2.36	0.59
1:a:588:C:OP2	17:q:78:LYS:N	2.34	0.59
1:a:1063:G:H1	1:a:1191:C:H42	1.51	0.59
1:a:2172:U:H2'	1:a:2173:G:C8	2.37	0.59
3:c:17:THR:O	3:c:211:ARG:NH2	2.35	0.59
10:j:92:GLU:HG2	10:j:113:LYS:HZ2	1.67	0.59
12:l:34:LEU:HD11	12:l:129:THR:HB	1.84	0.59
1:a:1574:A:OP2	1:a:1589:A:N6	2.35	0.58
1:a:2741:U:H2'	1:a:2742:G:C8	2.37	0.58
1:A:251:A:N3	1:A:457:G:O2'	2.29	0.58
1:A:902:G:H2'	1:A:903:C:C6	2.38	0.58
3:C:26:LYS:HZ2	3:C:26:LYS:HB3	1.67	0.58
20:T:87:LYS:NZ	20:T:95:LYS:HZ2	2.00	0.58
1:a:485:U:H5''	29:7:41:ARG:HH12	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:610:C:OP1	11:k:21:ARG:NH2	2.36	0.58
1:a:895:G:H2'	1:a:896:A:C8	2.37	0.58
1:a:1079:U:OP1	31:9:9:ARG:NH2	2.36	0.58
1:a:2221:A:N1	1:a:2238:C:N4	2.50	0.58
1:a:2306:C:OP2	14:n:89:ARG:NH2	2.32	0.58
1:a:2401:G:H5''	1:a:2402:U:H5'	1.84	0.58
20:t:14:LEU:N	20:t:73:ARG:O	2.36	0.58
1:A:506:A:P	20:T:47:LYS:HZ3	2.25	0.58
1:A:1005:A:O2'	1:A:2468:C:O2'	2.20	0.58
1:A:2798:C:O3'	4:D:69:LYS:NZ	2.33	0.58
1:A:2818:U:O2	1:A:2901:A:N6	2.36	0.58
5:E:155:LEU:HB2	5:E:189:THR:HG21	1.86	0.58
12:L:16:ARG:HB3	12:L:18:LYS:HE3	1.85	0.58
12:L:21:THR:OG1	12:L:99:PRO:O	2.17	0.58
20:T:39:VAL:HB	20:T:42:VAL:HB	1.84	0.58
21:U:97:GLU:HA	21:U:127:LYS:HA	1.83	0.58
1:a:311:C:N3	1:a:378:G:N1	2.34	0.58
1:a:1683:C:H2'	1:a:1684:A:C8	2.38	0.58
1:a:2148:A:H4'	1:a:2149:G:O5'	2.03	0.58
1:A:361:C:H5''	20:T:4:LYS:HB2	1.85	0.58
1:A:494:G:H4'	5:E:62:ARG:NH1	2.11	0.58
1:A:544:U:H2'	1:A:545:G:H8	1.69	0.58
1:A:1058:U:O4	9:I:28:THR:OG1	2.19	0.58
1:A:1081:U:H2'	1:A:1082:G:C8	2.38	0.58
1:A:2341:G:H2'	1:A:2342:G:H8	1.67	0.58
14:N:58:LEU:HD12	14:N:65:VAL:HG13	1.85	0.58
15:O:91:ARG:NE	15:O:124:ASP:OD2	2.29	0.58
1:a:471:C:H5''	16:p:3:ARG:HB3	1.84	0.58
1:a:1577:C:O2'	1:a:1578:C:O5'	2.20	0.58
1:a:1861:C:H2'	1:a:1862:G:H8	1.68	0.58
2:b:67:G:OP2	2:b:68:C:OP2	2.22	0.58
1:A:349:G:H2'	1:A:350:G:H8	1.68	0.58
1:A:1343:C:H2'	1:A:1344:C:C6	2.38	0.58
1:A:1884:A:H2'	1:A:1885:A:C8	2.37	0.58
1:A:2719:G:N2	13:M:71:GLN:OE1	2.34	0.58
1:a:213:G:O6	1:a:446:C:O2'	2.21	0.58
1:a:1312:G:O6	18:r:13:SER:OG	2.17	0.58
1:a:1562:U:H2'	1:a:1563:G:H8	1.69	0.58
1:a:1969:C:H2'	1:a:1970:G:H8	1.68	0.58
1:a:2230:U:O2	23:w:52:ARG:NH2	2.37	0.58
1:a:2279:A:H5''	1:a:2280:A:H5''	1.85	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:l:36:ALA:HB1	12:l:127:ILE:HG13	1.85	0.58
17:q:5:VAL:O	17:q:11:GLN:HA	2.04	0.58
1:A:664:U:H2'	1:A:665:C:C6	2.38	0.58
1:A:2365:G:N2	22:V:34:GLY:O	2.34	0.58
16:P:28:ARG:NH1	16:P:38:THR:OG1	2.33	0.58
1:a:2081:A:H5'	5:e:71:GLY:HA2	1.86	0.58
1:a:2451:A:C8	1:a:2598:C:H4'	2.38	0.58
1:a:2698:G:N1	1:a:2737:C:O2	2.37	0.58
1:a:2891:C:H2'	1:a:2892:A:H8	1.69	0.58
1:A:444:C:H2'	1:A:445:G:H8	1.68	0.58
1:A:541:C:H5''	27:0:13:LYS:HZ1	1.67	0.58
1:A:776:G:O4'	3:C:208:LYS:NZ	2.32	0.58
1:A:1042:A:OP2	16:P:93:LYS:NZ	2.35	0.58
1:A:1372:U:HO2'	1:A:2032:G:HO2'	1.50	0.58
19:S:61:GLY:HA2	19:S:76:ARG:NH1	2.18	0.58
1:a:958:C:OP1	12:l:9:TYR:OH	2.20	0.58
1:a:2008:A:H2'	1:a:2009:G:C8	2.38	0.58
1:a:2376:C:H2'	1:a:2377:G:O4'	2.03	0.58
1:a:2828:G:H1	1:a:2838:C:H42	1.52	0.58
10:j:22:ILE:HD11	10:j:42:SER:HB2	1.85	0.58
13:m:56:LYS:NZ	13:m:94:TYR:OH	2.36	0.58
18:r:68:ARG:NH1	18:r:111:HIS:HA	2.18	0.58
1:A:7:G:N1	1:A:2906:U:O4	2.36	0.58
1:A:629:U:H5''	5:E:102:PRO:HB3	1.85	0.58
1:A:744:C:H2'	1:A:745:C:C6	2.39	0.58
1:A:835:A:OP1	1:A:838:C:N4	2.28	0.58
1:A:1169:C:O2'	31:4:18:ARG:NH2	2.37	0.58
1:A:1209:G:H2'	1:A:1210:G:H8	1.68	0.58
1:A:2021:C:O3'	1:A:2735:G:N2	2.36	0.58
1:A:2122:G:H2'	1:A:2123:G:C8	2.38	0.58
16:P:29:SER:OG	16:P:30:LYS:NZ	2.34	0.58
1:a:2024:G:N1	1:a:2025:G:O6	2.37	0.58
1:a:2152:U:O2'	1:a:2155:G:O2'	2.20	0.58
1:a:2587:C:OP1	4:d:144:ARG:NH2	2.36	0.58
7:g:9:ILE:HG12	7:g:69:ARG:HH11	1.69	0.58
1:A:843:C:H2'	1:A:844:C:H6	1.69	0.58
1:A:1360:C:O2'	34:A:4453:HOH:O	2.17	0.58
1:a:242:C:OP2	30:8:5:LYS:NZ	2.27	0.58
1:a:1040:C:O2	17:q:10:LYS:NZ	2.35	0.58
1:a:1977:U:O2'	1:a:2564:2MU:H4'	2.04	0.58
1:a:2499:G:H2'	1:a:2500:A:H8	1.68	0.58

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:18:ASP:HA	15:o:82:LEU:HD11	1.84	0.58
12:l:68:ILE:HG22	12:l:101:ARG:HE	1.69	0.58
16:p:56:ASP:HA	16:p:59:ARG:NH1	2.18	0.58
16:p:85:LYS:NZ	16:p:117:GLN:HG2	2.18	0.58
1:A:24:G:O2'	18:R:78:GLU:O	2.20	0.58
1:A:56:C:N4	34:A:4503:HOH:O	2.35	0.58
1:A:320:C:H2'	1:A:321:C:C6	2.38	0.58
1:A:1235:G:OP1	11:K:30:THR:OG1	2.14	0.58
1:A:2161:C:N4	1:A:2174:G:H1	2.02	0.58
1:A:2617:PSU:H1'	1:A:2618:C:OP2	2.04	0.58
1:a:552:C:N4	1:a:2790:G:O2'	2.36	0.58
1:a:2032:G:H5''	18:r:42:ARG:HB2	1.86	0.58
1:a:2343:G:OP1	22:v:44:ARG:NH1	2.37	0.58
1:a:2574:U:H4'	10:j:25:LEU:HD21	1.85	0.58
1:a:2693:C:O2'	1:a:2737:C:N4	2.33	0.58
3:c:168:ARG:HA	3:c:173:VAL:HA	1.86	0.58
12:l:1:MET:N	34:l:301:HOH:O	2.35	0.58
1:A:1287:A:H2'	1:A:1288:A:C8	2.39	0.57
1:A:1366:C:N3	1:A:1376:C:N4	2.52	0.57
1:A:1425:A:H4'	1:A:1426:G:OP2	2.04	0.57
1:A:2660:C:H2'	1:A:2661:U:C6	2.39	0.57
20:T:34:LYS:NZ	20:T:36:ALA:HB2	2.19	0.57
24:X:54:LYS:NZ	24:X:54:LYS:HB3	2.19	0.57
1:a:346:A:H4'	1:a:347:G:OP2	2.03	0.57
1:a:729:G:H4'	29:7:26:GLY:HA3	1.86	0.57
1:a:732:A:OP1	1:a:733:G:N2	2.36	0.57
1:a:745:C:OP1	1:a:1681:A:N6	2.36	0.57
1:a:2189:U:H2'	1:a:2190:G:C8	2.39	0.57
1:a:2315:G:H2'	1:a:2316:G:C8	2.39	0.57
1:a:2541:G:OP2	1:a:2542:A:H5''	2.04	0.57
1:a:2826:C:O2	1:a:2893:A:O2'	2.22	0.57
2:b:100:A:H3'	2:b:101:G:H8	1.69	0.57
7:g:89:ILE:HG12	7:g:162:ILE:HG12	1.84	0.57
17:q:18:LEU:O	17:q:95:LEU:HA	2.03	0.57
20:t:28:LYS:NZ	34:t:602:HOH:O	2.34	0.57
1:A:605:G:H2'	1:A:606:G:H8	1.69	0.57
1:A:1800:G:H2'	1:A:1801:G:C8	2.40	0.57
1:A:1939:PSU:O2'	1:A:1940:A:O5'	2.18	0.57
2:B:92:C:H5''	21:U:79:ARG:HH12	1.68	0.57
1:a:963:A:H5''	1:a:2280:A:H61	1.69	0.57
1:a:1027:A:H5''	1:a:1028:C:OP2	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1650:C:H2'	1:a:1651:C:C6	2.38	0.57
1:a:2391:G:OP2	1:a:2391:G:H8	1.87	0.57
8:h:56:LYS:O	8:h:60:GLU:HB2	2.04	0.57
15:o:85:LYS:NZ	15:o:87:ASP:OD1	2.36	0.57
1:A:438:G:OP2	1:A:2418:U:O2'	2.21	0.57
1:A:1304:C:H2'	1:A:1305:G:H8	1.69	0.57
1:A:1434:G:H2'	1:A:1435:G:C8	2.39	0.57
1:A:1707:C:N4	34:A:4507:HOH:O	2.36	0.57
1:A:2475:C:H2'	1:A:2476:C:C6	2.39	0.57
4:D:9:VAL:HG23	15:O:3:ARG:HB3	1.85	0.57
13:M:21:TYR:OH	13:M:43:GLU:OE1	2.18	0.57
25:y:32:GLN:NE2	34:y:701:HOH:O	2.37	0.57
1:A:152:G:H2'	1:A:153:C:C6	2.38	0.57
1:A:1142:A:H8	1:A:1142:A:OP2	1.88	0.57
1:A:1685:C:O2	1:A:2710:U:O2'	2.21	0.57
1:A:2341:G:H2'	1:A:2342:G:C8	2.39	0.57
1:A:2361:G:OP2	30:3:42:ARG:NH2	2.37	0.57
1:A:2819:A:OP2	1:A:2900:G:N1	2.37	0.57
21:U:102:LEU:HD21	21:U:124:ILE:HB	1.86	0.57
1:a:776:G:O2'	1:a:810:G:H4'	2.03	0.57
1:a:1314:A:N6	1:a:2034:G:O2'	2.37	0.57
1:a:2723:A:H5''	1:a:2724:U:H5''	1.86	0.57
1:a:2796:G:H21	4:d:37:ARG:HH12	1.52	0.57
1:A:476:G:OP1	1:A:1294:G:N1	2.38	0.57
1:A:956:A:OP2	1:A:958:C:N4	2.21	0.57
1:A:1977:U:O2'	1:A:2564:2MU:H4'	2.05	0.57
1:A:2291:G:O6	22:V:14:ARG:NH1	2.37	0.57
1:a:133:G:N1	1:a:144:C:N3	2.40	0.57
1:a:1683:C:H2'	1:a:1684:A:H8	1.69	0.57
1:a:1822:A:N6	1:a:1859:G:O2'	2.37	0.57
1:a:2486:C:N4	1:a:2541:G:H21	2.02	0.57
1:A:490:U:O2'	29:2:12:ARG:NH1	2.38	0.57
1:A:641:G:P	5:E:43:LYS:HZ3	2.24	0.57
1:A:1205:U:H2'	1:A:1206:G:H8	1.69	0.57
1:A:1480:A:H61	1:A:1605:A:N6	2.03	0.57
1:A:1943:G:H2'	1:A:1944:G:H8	1.68	0.57
1:A:2549:U:H2'	1:A:2550:C:C6	2.38	0.57
1:A:2646:G:H1	1:A:2797:C:H42	1.53	0.57
5:E:46:ARG:HH11	5:E:46:ARG:HA	1.69	0.57
6:F:68:PRO:HA	6:F:92:VAL:HB	1.87	0.57
8:H:1:MET:O	8:H:20:ASP:HA	2.04	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
10:J:53:LYS:HG2	10:J:56:ASP:OD2	2.05	0.57
1:a:1005:A:H5''	1:a:1006:C:OP2	2.03	0.57
1:a:1320:A:N3	1:a:1343:C:H1'	2.20	0.57
1:a:1383:G:OP2	19:s:73:ARG:NH1	2.38	0.57
1:a:2094:G:N1	1:a:2450:U:N3	2.53	0.57
2:b:3:C:H2'	2:b:4:C:C6	2.40	0.57
21:u:54:HIS:HB3	21:u:101:PRO:HD3	1.86	0.57
1:A:582:G:H2'	1:A:583:C:C6	2.40	0.57
1:A:1636:U:H2'	1:A:1637:G:C8	2.40	0.57
1:A:1855:G:N3	3:C:254:THR:OG1	2.37	0.57
29:2:34:ARG:HB3	29:2:39:ARG:HG3	1.87	0.57
1:a:32:C:H42	1:a:499:G:H1	1.53	0.57
1:a:92:C:H5''	1:a:93:G:OP2	2.03	0.57
1:a:549:U:OP1	1:a:564:G:N2	2.37	0.57
1:a:1310:G:N1	1:a:2036:A:OP2	2.38	0.57
1:a:2052:A:H4'	1:a:2053:A:C8	2.39	0.57
1:a:2293:C:H4'	1:a:2401:G:H21	1.67	0.57
4:d:23:VAL:HA	4:d:184:VAL:O	2.03	0.57
18:r:86:LEU:HD22	18:r:96:ILE:HG13	1.87	0.57
1:A:843:C:H2'	1:A:844:C:C6	2.40	0.57
1:A:877:G:N2	1:A:2457:G:O2'	2.38	0.57
1:A:1065:U:H2'	1:A:1066:A:C8	2.40	0.57
1:A:1658:C:O2'	29:2:5:TRP:O	2.22	0.57
1:A:1783:C:H2'	1:A:1784:G:C8	2.39	0.57
1:A:2030:C:H2'	1:A:2031:G:C8	2.40	0.57
1:A:2475:C:H2'	1:A:2476:C:H6	1.70	0.57
1:A:2819:A:OP2	1:A:2900:G:N2	2.38	0.57
2:B:57:A:OP2	2:B:58:A:OP2	2.22	0.57
15:O:41:ARG:NH2	15:O:43:GLN:OE1	2.38	0.57
1:a:259:A:OP2	1:a:284:G:N2	2.36	0.57
1:a:1125:C:N4	1:a:1134:A:N3	2.53	0.57
1:a:1424:A:OP1	29:7:10:ARG:NH2	2.38	0.57
1:a:1425:A:H3'	1:a:1426:G:H8	1.69	0.57
1:a:2580:C:N4	34:a:4822:HOH:O	2.36	0.57
3:c:70:TRP:HA	3:c:73:VAL:HG23	1.86	0.57
9:i:43:THR:H	9:i:48:MET:HE1	1.70	0.57
11:k:95:VAL:HG22	11:k:125:VAL:HA	1.86	0.57
13:m:104:ARG:NH1	13:m:107:ASP:OD2	2.37	0.57
1:A:173:C:H2'	1:A:174:U:H6	1.69	0.57
1:A:715:G:H5'	1:A:716:G:OP2	2.04	0.57
1:A:1325:G:OP1	13:M:35:THR:N	2.26	0.57

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2709:G:H2'	1:A:2710:U:C6	2.40	0.57
3:C:253:GLN:HB2	3:C:257:LEU:HD12	1.86	0.57
1:a:186:A:H2	1:a:2446:A:H62	1.53	0.57
1:a:348:A:H62	1:a:362:G:H21	1.53	0.57
1:a:1713:G:OP1	10:j:82:ASN:ND2	2.38	0.57
5:e:156:LEU:HA	5:e:193:VAL:HG12	1.85	0.57
11:k:64:LYS:O	30:8:30:ARG:NH2	2.38	0.57
20:t:44:ILE:HB	20:t:62:GLU:HG2	1.87	0.57
1:A:345:G:OP1	5:E:135:LYS:NZ	2.33	0.57
1:A:349:G:H2'	1:A:350:G:C8	2.39	0.57
1:A:468:G:OP2	1:A:468:G:H8	1.87	0.57
1:A:591:U:O5'	1:A:990:A:N6	2.37	0.57
1:A:803:C:N4	34:A:4428:HOH:O	2.36	0.57
1:A:2359:C:O3'	28:13:21:TYR:OH	2.22	0.57
1:A:2559:U:H2'	1:A:2560:G:H8	1.69	0.57
1:A:2586:G:H2'	1:A:2587:C:O4'	2.05	0.57
9:I:107:LEU:HD13	9:I:108:PRO:HD2	1.87	0.57
1:a:653:G:H2'	1:a:654:G:C8	2.40	0.57
1:a:1708:G:H2'	1:a:1709:C:C6	2.39	0.57
1:a:1727:U:O2'	1:a:1794:G:N7	2.32	0.57
28:6:34:LEU:H	28:6:51:GLU:HB2	1.69	0.57
1:A:109:A:H4'	24:X:69:ARG:CZ	2.35	0.56
1:A:150:C:N4	34:A:4418:HOH:O	2.38	0.56
1:A:598:A:OP2	1:A:2077:C:N4	2.36	0.56
3:C:172:TYR:HB3	3:C:184:LYS:HB3	1.86	0.56
25:Y:5:LYS:NZ	25:Y:55:ARG:NH1	2.44	0.56
1:a:880:U:H2'	1:a:881:C:C6	2.40	0.56
1:a:1515:C:H2'	1:a:1516:A:C8	2.40	0.56
1:a:1857:G:H4'	3:c:242:ARG:NH1	2.20	0.56
1:a:2859:U:O4'	1:a:2877:G:N2	2.38	0.56
4:d:37:ARG:HG3	4:d:80:GLU:OE2	2.05	0.56
1:A:126:C:H2'	1:A:127:C:C6	2.41	0.56
1:A:1758:C:H2'	1:A:1759:C:C6	2.40	0.56
7:G:84:SER:HA	7:G:133:VAL:O	2.05	0.56
10:J:73:ASP:OD2	15:O:32:TYR:OH	2.22	0.56
1:a:718:C:H2'	1:a:719:C:C6	2.40	0.56
1:a:786:G:H3'	34:a:6045:HOH:O	2.04	0.56
1:a:802:C:H2'	1:a:803:C:C6	2.39	0.56
1:a:1588:G:OP2	1:a:1589:A:O2'	2.20	0.56
1:a:2220:A:O5'	8:h:33:ARG:NH2	2.38	0.56
1:a:2584:A:H5''	1:a:2586:G:H4'	1.86	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2720:G:H5''	13:m:68:ARG:HG3	1.86	0.56
12:l:45:GLN:NE2	34:l:302:HOH:O	2.37	0.56
12:l:55:VAL:HG13	21:u:183:LEU:HD11	1.88	0.56
16:p:75:ASN:ND2	16:p:77:SER:OG	2.39	0.56
1:A:152:G:H2'	1:A:153:C:H6	1.69	0.56
1:A:910:A:H2'	1:A:911:G:H8	1.70	0.56
1:A:1047:A:H3'	1:A:1048:G:H8	1.70	0.56
1:A:1496:A:C4	1:A:1575:A:H2	2.22	0.56
1:A:1607:G:H2'	1:A:1608:G:H8	1.68	0.56
1:A:2255:U:H2'	1:A:2256:U:C6	2.40	0.56
3:C:85:ASP:OD1	3:C:88:ARG:N	2.34	0.56
10:J:104:ARG:HH12	10:J:122:LEU:C	2.14	0.56
13:M:9:LYS:HA	13:M:17:ARG:HH21	1.70	0.56
16:P:85:LYS:HZ3	16:P:117:GLN:HG2	1.71	0.56
16:P:106:PHE:HA	16:P:109:LEU:HD12	1.86	0.56
22:V:65:GLY:CA	22:V:82:ARG:O	2.53	0.56
23:W:56:GLN:HB3	23:W:87:PRO:HG3	1.88	0.56
1:a:789:G:O2'	34:a:4770:HOH:O	2.17	0.56
1:a:1276:C:H2'	1:a:1277:G:C8	2.41	0.56
1:a:1345:G:H21	1:a:1688:A:H62	1.53	0.56
1:a:1382:A:H2'	1:a:1383:G:C8	2.41	0.56
1:a:1885:A:N6	1:a:1910:G:O2'	2.36	0.56
1:a:1943:G:H2'	1:a:1944:G:C8	2.40	0.56
1:a:2080:A:H5''	1:a:2081:A:OP2	2.04	0.56
1:a:2543:A:N6	34:a:4832:HOH:O	2.38	0.56
5:e:12:LEU:HB2	5:e:124:LEU:HD11	1.87	0.56
10:j:19:ILE:HG22	10:j:43:VAL:HA	1.87	0.56
19:s:72:LYS:NZ	19:s:73:ARG:O	2.36	0.56
20:t:86:ARG:HH11	20:t:100:ALA:HA	1.70	0.56
1:A:191:U:H2'	1:A:192:C:C6	2.40	0.56
1:A:394:C:H2'	1:A:395:C:C6	2.41	0.56
1:A:1546:G:H21	3:C:100:GLY:HA3	1.70	0.56
6:F:130:ASN:OD1	6:F:161:THR:N	2.37	0.56
18:R:25:ARG:NH1	18:R:25:ARG:HB2	2.20	0.56
1:a:1228:G:OP1	25:y:30:ARG:NH2	2.38	0.56
1:a:1430:A:N6	34:a:4798:HOH:O	2.30	0.56
1:a:1886:G:H2'	1:a:1887:G:H8	1.71	0.56
1:a:1970:G:H2'	1:a:1971:G:H8	1.69	0.56
1:a:1991:A:O2'	1:a:1994:A:N3	2.36	0.56
1:a:2126:G:H2'	1:a:2127:C:O4'	2.05	0.56
1:a:2253:A:H2'	1:a:2254:G:C8	2.40	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:137:ASP:OD2	7:g:139:GLN:NE2	2.38	0.56
8:h:6:LEU:HD11	8:h:37:VAL:HG23	1.86	0.56
1:A:867:A:N3	1:A:988:U:O2'	2.38	0.56
1:A:998:A:OP2	12:L:16:ARG:HD3	2.05	0.56
1:a:477:C:P	5:e:52:LYS:HZ3	2.29	0.56
1:a:594:A:H1'	1:a:596:G:C8	2.40	0.56
1:a:790:G:O2'	1:a:1706:U:OP1	2.23	0.56
1:a:1293:A:OP1	5:e:95:ARG:NH2	2.36	0.56
1:a:1737:A:O2'	34:a:4772:HOH:O	2.18	0.56
1:a:1889:G:N2	1:a:1906:A:OP2	2.38	0.56
1:a:2303:U:H2'	1:a:2304:C:H6	1.70	0.56
15:o:31:SER:O	15:o:84:GLN:N	2.38	0.56
2:B:48:A:OP1	14:N:93:LYS:N	2.38	0.56
6:F:63:ILE:HG12	6:F:143:GLU:HB2	1.87	0.56
12:L:119:ARG:HH22	31:4:8:LYS:NZ	2.03	0.56
1:a:200:A:H5'	1:a:1413:A:H4'	1.87	0.56
1:a:348:A:H2'	1:a:349:G:O4'	2.04	0.56
1:a:1480:A:H61	1:a:1605:A:H61	1.52	0.56
1:a:1800:G:O2'	1:a:1980:C:OP1	2.23	0.56
1:a:2475:C:H42	1:a:2499:G:H1	1.54	0.56
1:a:2799:U:O2'	4:d:62:PRO:O	2.23	0.56
27:5:9:LYS:HZ2	27:5:9:LYS:HB3	1.70	0.56
28:6:11:LEU:HB2	28:6:21:TYR:HB2	1.88	0.56
1:A:864:C:O2'	1:A:886:U:OP1	2.23	0.56
1:A:1186:U:O2	1:A:1188:A:N6	2.38	0.56
1:A:1440:U:H2'	1:A:1441:A:O4'	2.04	0.56
1:A:1886:G:O6	1:A:1910:G:N2	2.38	0.56
3:C:248:SER:HG	3:C:252:TRP:CD1	2.24	0.56
31:4:12:ASP:OD1	31:4:12:ASP:N	2.32	0.56
1:a:83:A:N1	1:a:97:G:O2'	2.36	0.56
1:a:603:C:N4	34:a:4829:HOH:O	2.38	0.56
1:a:2059:G:H2'	1:a:2060:G:C8	2.40	0.56
1:a:2127:C:H2'	1:a:2128:G:H8	1.71	0.56
1:a:2260:C:H42	1:a:2268:G:H1	1.54	0.56
1:a:2466:G:C4	1:a:2467:G:C8	2.93	0.56
7:g:86:GLU:OE2	7:g:132:ARG:NH2	2.39	0.56
23:w:48:LYS:HA	23:w:60:PHE:O	2.06	0.56
1:A:124:A:H61	29:2:42:LEU:HD12	1.71	0.56
1:A:1327:G:H2'	1:A:1328:U:C6	2.41	0.56
1:A:1389:G:O2'	1:A:1430:A:N1	2.38	0.56
15:O:27:THR:N	15:O:90:GLN:O	2.38	0.56

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1467:G:H2'	1:a:1468:G:H8	1.70	0.56
1:a:1574:A:H2'	1:a:1575:A:C8	2.41	0.56
1:a:1615:G:H5''	3:c:61:LEU:HD13	1.87	0.56
1:a:1978:U:H1'	1:a:2564:2MU:OP1	2.06	0.56
1:a:1993:A:OP2	3:c:242:ARG:NH2	2.34	0.56
1:a:2491:G:H5'	1:a:2548:G:H21	1.71	0.56
4:d:12:THR:OG1	4:d:13:ARG:N	2.38	0.56
4:d:115:GLY:O	4:d:119:ARG:HB2	2.06	0.56
7:g:121:ILE:HD11	7:g:140:LYS:HG2	1.87	0.56
9:i:74:ARG:HB2	9:i:83:LYS:HB2	1.86	0.56
21:u:51:ALA:HB1	21:u:55:HIS:HB2	1.86	0.56
1:A:2455:C:H2'	1:A:2456:G:H8	1.71	0.56
4:D:174:ASP:OD1	4:D:175:VAL:N	2.35	0.56
18:R:80:PRO:O	18:R:100:THR:OG1	2.24	0.56
1:a:280:C:H2'	1:a:281:G:C8	2.40	0.56
1:a:1053:C:H5''	9:i:35:ARG:NH1	2.21	0.56
1:a:1186:U:P	9:i:25:ARG:HH12	2.28	0.56
1:a:1703:C:H2'	1:a:1704:C:H6	1.71	0.56
1:a:1797:U:H2'	1:a:1798:C:C6	2.41	0.56
1:a:2051:G:N1	1:a:2055:A:OP2	2.36	0.56
1:a:2388:A:N3	14:n:106:ARG:NH2	2.52	0.56
1:a:2551:C:H4'	31:9:35:ARG:NH1	2.20	0.56
27:5:9:LYS:NZ	27:5:9:LYS:HB3	2.21	0.56
1:A:134:G:H1	1:A:143:C:H42	1.54	0.56
1:A:171:A:H61	1:A:204:G:H1	1.54	0.56
1:A:1022:C:O2'	16:P:55:ARG:NH2	2.39	0.56
1:A:2045:G:H2'	1:A:2046:G:C8	2.40	0.56
1:A:2291:G:N7	22:V:14:ARG:NH1	2.49	0.56
18:R:14:PRO:HG2	18:R:78:GLU:HG2	1.88	0.56
27:0:34:PRO:HG2	27:0:35:GLU:OE2	2.06	0.56
1:a:113:C:O2'	1:a:125:A:O2'	2.22	0.56
1:a:197:C:H2'	1:a:198:C:C6	2.41	0.56
1:a:2068:G:H5'	27:5:19:ARG:HG3	1.87	0.56
1:a:2891:C:O2'	13:m:95:THR:O	2.24	0.56
6:f:27:ASN:HB3	6:f:30:GLU:HB2	1.87	0.56
1:A:242:C:P	30:3:5:LYS:HZ2	2.30	0.55
1:A:519:G:H2'	1:A:520:G:C8	2.41	0.55
1:A:926:G:H22	1:A:944:C:H42	1.54	0.55
1:A:929:G:H2'	1:A:930:G:H8	1.71	0.55
1:A:1609:A:H2'	1:A:1610:G:H8	1.69	0.55
1:A:2784:C:H2'	1:A:2785:C:H6	1.71	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:38:VAL:HG22	6:F:93:THR:HG23	1.87	0.55
11:K:106:LEU:HD11	11:K:112:LEU:HG	1.88	0.55
13:M:96:ARG:HG3	13:M:117:VAL:HG22	1.89	0.55
17:Q:14:VAL:HB	17:Q:96:ILE:HG13	1.88	0.55
28:13:12:GLU:HA	28:13:19:ARG:HA	1.88	0.55
1:a:96:C:N4	34:a:4840:HOH:O	2.39	0.55
1:a:2831:A:OP2	1:a:2832:G:OP2	2.24	0.55
1:a:2890:C:H2'	1:a:2891:C:C6	2.41	0.55
24:x:18:PRO:HA	24:x:21:LEU:HB2	1.89	0.55
1:A:38:A:H2'	1:A:39:C:C6	2.42	0.55
1:A:94:G:O2'	24:X:48:HIS:ND1	2.34	0.55
1:A:722:A:O2'	5:E:67:GLN:NE2	2.39	0.55
1:A:766:C:H2'	1:A:767:C:C6	2.41	0.55
1:A:776:G:O2'	1:A:810:G:H4'	2.07	0.55
1:A:817:G:H5''	29:2:10:ARG:HD2	1.87	0.55
1:A:1757:C:O2'	1:A:2868:C:N3	2.39	0.55
1:A:1827:U:H2'	1:A:1828:C:H6	1.71	0.55
1:A:2851:C:H2'	1:A:2852:G:C8	2.40	0.55
16:P:10:ARG:HG2	16:P:14:HIS:CE1	2.42	0.55
1:a:805:C:N4	34:a:4831:HOH:O	2.38	0.55
1:a:865:G:OP1	1:a:977:G:O2'	2.25	0.55
1:a:1248:G:OP2	1:a:1249:A:O2'	2.11	0.55
1:a:1759:C:H2'	1:a:1760:U:O4'	2.06	0.55
1:a:2525:G:C1'	4:d:154:LYS:HZ1	2.19	0.55
3:c:24:ILE:HD13	3:c:84:TYR:HB2	1.87	0.55
3:c:41:GLY:O	3:c:43:ARG:NH1	2.39	0.55
1:A:291:G:C2	1:A:292:G:C8	2.95	0.55
1:A:475:A:O2'	16:P:3:ARG:NH1	2.38	0.55
1:A:860:U:H2'	1:A:861:C:C6	2.41	0.55
1:A:1616:A:O4'	3:C:59:LYS:NZ	2.40	0.55
10:J:64:ARG:NH1	10:J:83:ALA:HB2	2.21	0.55
15:O:112:ARG:NH2	34:O:301:HOH:O	2.39	0.55
20:T:87:LYS:NZ	20:T:95:LYS:NZ	2.54	0.55
20:T:97:ARG:O	20:T:106:LEU:N	2.38	0.55
1:a:173:C:H2'	1:a:174:U:C6	2.40	0.55
1:a:473:A:O4'	1:a:475:A:N6	2.39	0.55
1:a:1961:5MU:O4'	1:a:2603:C:O2'	2.21	0.55
1:a:2030:C:H2'	1:a:2031:G:H8	1.71	0.55
1:a:2845:A:N6	1:a:2889:C:OP2	2.39	0.55
7:g:154:PRO:HB3	7:g:163:TYR:CZ	2.41	0.55
7:g:155:SER:OG	7:g:158:HIS:O	2.25	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:n:66:ALA:HB1	14:n:101:LEU:HB2	1.88	0.55
1:A:549:U:H2'	1:A:550:U:C6	2.41	0.55
1:A:641:G:H5'	5:E:182:ASN:HB3	1.88	0.55
1:A:792:G:N2	34:A:4476:HOH:O	2.26	0.55
1:A:860:U:H2'	1:A:861:C:H6	1.70	0.55
1:A:908:A:H3'	1:A:909:G:H8	1.72	0.55
1:A:964:A:O2'	2:B:97:G:N2	2.39	0.55
1:A:2040:G:H2'	1:A:2041:A:C8	2.42	0.55
1:A:2323:A:C2	6:F:47:LYS:HG2	2.41	0.55
1:A:2545:A:OP1	1:A:2677:A:O2'	2.25	0.55
1:A:2717:A:O2'	1:A:2862:G:OP1	2.21	0.55
9:I:102:ALA:O	9:I:106:MET:HG2	2.06	0.55
20:T:90:LEU:HD13	20:T:91:GLU:H	1.71	0.55
1:a:275:C:H2'	1:a:276:C:C6	2.42	0.55
1:a:825:G:H5'	3:c:48:ARG:NH1	2.20	0.55
1:a:1277:G:H2'	1:a:1278:G:H8	1.70	0.55
1:a:1576:G:O6	1:a:1588:G:N2	2.39	0.55
1:a:1758:C:H2'	1:a:1759:C:C6	2.42	0.55
1:a:2136:A:H3'	1:a:2137:G:H8	1.72	0.55
1:a:2144:U:H3	1:a:2198:A:H61	1.53	0.55
15:o:53:ARG:HB2	15:o:60:THR:O	2.07	0.55
22:v:21:LEU:HD11	22:v:40:GLN:HA	1.88	0.55
1:A:1183:G:N2	9:I:106:MET:SD	2.68	0.55
1:A:1618:A:H2'	1:A:1619:A:H8	1.72	0.55
1:A:1721:G:N2	1:A:2013:U:O2	2.39	0.55
11:K:64:LYS:O	30:3:30:ARG:NH2	2.31	0.55
20:T:87:LYS:HZ2	20:T:95:LYS:HZ3	1.54	0.55
22:V:27:GLU:HA	22:V:67:VAL:HB	1.87	0.55
25:Y:5:LYS:CE	25:Y:55:ARG:HH11	2.19	0.55
1:a:1228:G:O2'	25:y:29:ARG:NH1	2.39	0.55
1:a:1694:G:H3'	1:a:1694:G:OP2	2.07	0.55
1:a:1762:G:H2'	1:a:1763:G:C8	2.42	0.55
1:a:1885:A:H3'	1:a:1886:G:H8	1.72	0.55
1:a:2175:G:H2'	1:a:2176:G:C8	2.41	0.55
1:A:667:G:N2	1:A:669:A:H3'	2.22	0.55
1:A:1369:U:OP1	18:R:98:LYS:NZ	2.27	0.55
4:D:1:MET:HE1	4:D:199:ARG:HD2	1.86	0.55
16:P:46:ALA:O	16:P:50:ARG:HB2	2.05	0.55
1:a:47:G:N1	1:a:166:G:OP2	2.39	0.55
1:a:323:A:N3	1:a:343:C:O2'	2.39	0.55
1:a:596:G:OP2	17:q:78:LYS:NZ	2.38	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2652:G:P	9:i:97:ARG:HH12	2.29	0.55
7:g:62:LYS:NZ	7:g:62:LYS:HB3	2.22	0.55
1:A:544:U:H2'	1:A:545:G:C8	2.41	0.55
1:A:662:A:H8	11:K:117:GLU:HG3	1.72	0.55
1:A:1183:G:H2'	1:A:1184:G:O4'	2.07	0.55
1:A:1211:U:H2'	1:A:1212:C:C6	2.41	0.55
1:A:1309:U:H5''	27:0:16:ARG:HD3	1.89	0.55
1:A:1400:A:H5''	3:C:38:LYS:HD2	1.89	0.55
1:A:1635:C:H2'	1:A:1636:U:C6	2.41	0.55
1:A:2268:G:O2'	22:V:9:SER:OG	2.20	0.55
1:A:2310:A:H3'	1:A:2311:G:H8	1.72	0.55
1:A:2317:A:N1	6:F:153:ARG:HA	2.20	0.55
10:J:64:ARG:O	10:J:82:ASN:HA	2.07	0.55
16:P:93:LYS:NZ	16:P:93:LYS:HB3	2.22	0.55
1:a:26:G:H1'	1:a:540:A:H61	1.71	0.55
1:a:29:U:H2'	1:a:30:G:C8	2.41	0.55
1:a:204:G:H4'	1:a:205:A:H4'	1.88	0.55
1:a:774:A:H2'	1:a:775:G:C8	2.42	0.55
1:a:848:G:O6	5:e:53:THR:OG1	2.22	0.55
1:a:1270:C:O2'	17:q:86:GLY:N	2.36	0.55
2:b:92:C:OP1	21:u:79:ARG:NH1	2.40	0.55
2:b:106:G:H5'	21:u:31:ARG:HB3	1.88	0.55
6:f:109:VAL:HG11	6:f:142:PRO:HB3	1.88	0.55
20:t:28:LYS:N	20:t:38:ILE:O	2.34	0.55
1:A:441:C:O2	1:A:1895:U:O2'	2.24	0.55
1:A:572:A:H62	17:Q:19:LYS:HD2	1.72	0.55
1:A:602:G:O2'	1:A:2041:A:OP1	2.24	0.55
1:A:877:G:H4'	1:A:878:G:OP2	2.06	0.55
1:A:1446:G:H2'	1:A:1447:G:C8	2.42	0.55
25:Y:10:LYS:HG3	25:Y:11:SER:H	1.71	0.55
1:a:178:G:OP2	23:w:39:LYS:NZ	2.39	0.55
1:a:2108:U:H2'	1:a:2109:G:C8	2.42	0.55
1:a:2371:C:H2'	1:a:2372:A:O4'	2.07	0.55
1:a:2720:G:H2'	1:a:2721:G:H8	1.71	0.55
2:b:33:G:H5'	6:f:2:PRO:HD3	1.88	0.55
15:o:23:ARG:HB2	15:o:120:ARG:HH12	1.71	0.55
31:9:25:VAL:HB	31:9:34:GLN:HB2	1.87	0.55
1:A:612:C:O3'	5:E:95:ARG:NH1	2.33	0.55
1:A:2135:U:H3	1:A:2190:G:H4'	1.71	0.55
1:A:2381:A:H2'	1:A:2382:G:H8	1.72	0.55
1:A:2387:G:O2'	1:A:2389:A:N7	2.40	0.55

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2501:G:N2	1:A:2503:U:O4	2.30	0.55
1:A:2667:G:O2'	1:A:2676:G:O6	2.23	0.55
1:A:2689:G:H2'	1:A:2690:C:H6	1.71	0.55
1:A:2827:G:O2'	1:A:2846:U:O2	2.23	0.55
1:a:482:C:O2'	19:s:68:ARG:NH1	2.40	0.55
1:a:917:A:H2'	1:a:918:U:O4'	2.07	0.55
3:c:212:SER:HB2	3:c:217:ARG:HB2	1.87	0.55
1:A:53:G:H1'	29:2:35:ARG:NH1	2.21	0.55
1:A:308:U:H2'	1:A:309:C:H6	1.72	0.55
1:A:451:G:H2'	1:A:452:G:O4'	2.06	0.55
1:A:707:G:H4'	5:E:38:ARG:NH1	2.22	0.55
1:A:1033:G:O2'	1:A:1046:A:N3	2.36	0.55
1:A:1200:G:P	16:P:58:ARG:HE	2.30	0.55
1:A:1426:G:O2'	1:A:1616:A:N6	2.40	0.55
1:A:1475:G:H2'	1:A:1476:C:C6	2.41	0.55
1:A:2617:PSU:O2'	1:A:2618:C:O5'	2.24	0.55
5:E:119:ARG:NH1	34:E:404:HOH:O	2.36	0.55
23:W:18:ILE:HG12	23:W:37:ILE:HG12	1.88	0.55
1:a:1010:C:H2'	1:a:1011:G:C8	2.42	0.55
1:a:1506:G:H2'	1:a:1508:G:OP2	2.07	0.55
1:a:2213:G:H3'	1:a:2214:G:H8	1.72	0.55
1:a:2798:C:H4'	4:d:69:LYS:NZ	2.22	0.55
1:a:2871:G:H2'	1:a:2872:G:H8	1.72	0.55
9:i:15:LEU:O	9:i:137:LYS:HA	2.07	0.55
1:A:1929:G:H2'	1:A:1930:C:C6	2.41	0.54
1:A:2357:G:O2'	1:A:2393:C:O2	2.19	0.54
9:I:137:LYS:NZ	9:I:139:GLU:OE1	2.27	0.54
14:N:89:ARG:NH1	14:N:92:TYR:O	2.41	0.54
1:a:1077:G:O2'	31:9:7:VAL:O	2.25	0.54
1:a:1467:G:OP2	1:a:1467:G:H3'	2.07	0.54
7:g:27:LYS:HE3	7:g:32:GLU:OE2	2.07	0.54
14:n:84:GLN:NE2	14:n:111:GLU:OE1	2.40	0.54
30:8:55:ALA:O	30:8:59:LYS:HB2	2.06	0.54
1:A:184:A:N6	1:A:187:C:OP2	2.40	0.54
1:A:604:C:OP1	16:P:31:SER:OG	2.25	0.54
1:A:1474:C:O2'	1:A:1616:A:OP2	2.07	0.54
1:A:1883:C:N4	34:A:4514:HOH:O	2.40	0.54
1:A:2097:U:H4'	1:A:2608:U:H3	1.71	0.54
1:A:2104:A:N6	1:A:2249:G:O2'	2.40	0.54
1:A:2432:C:OP2	30:3:33:ASN:N	2.38	0.54
1:A:2692:C:H4'	4:D:8:LYS:HZ1	1.71	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2860:A:H2'	1:A:2861:A:C8	2.41	0.54
1:A:2880:C:H2'	1:A:2881:C:O4'	2.06	0.54
1:a:908:A:H62	1:a:962:G:N2	2.02	0.54
1:a:1716:A:OP1	10:j:5:GLN:NE2	2.41	0.54
1:a:1884:A:N3	1:a:2245:U:O2'	2.38	0.54
2:b:13:A:N1	2:b:69:G:O2'	2.36	0.54
6:f:143:GLU:OE2	26:z:26:SER:OG	2.23	0.54
7:g:143:GLN:O	7:g:147:ASN:ND2	2.40	0.54
16:p:6:THR:HG21	16:p:10:ARG:HB2	1.88	0.54
1:A:142:G:H2'	1:A:143:C:C6	2.42	0.54
1:A:557:A:H4'	1:A:558:G:C8	2.42	0.54
1:A:1638:C:H2'	1:A:1639:G:H8	1.72	0.54
1:A:1701:A:N1	1:A:2070:G:O2'	2.40	0.54
1:A:1701:A:O2'	4:D:113:PHE:O	2.23	0.54
1:A:2603:C:H2'	1:A:2604:G:C8	2.43	0.54
6:F:18:GLU:HB3	6:F:175:LEU:HD21	1.89	0.54
12:L:27:VAL:HG13	12:L:105:GLU:OE2	2.08	0.54
1:a:20:C:H2'	1:a:21:A:H8	1.71	0.54
1:a:175:G:H2'	1:a:176:G:H8	1.71	0.54
1:a:248:G:H2'	1:a:249:G:H8	1.72	0.54
1:a:263:C:H2'	1:a:264:G:H8	1.71	0.54
1:a:327:U:H2'	1:a:328:G:C8	2.42	0.54
1:a:999:G:H5'	12:l:13:GLN:HB3	1.89	0.54
1:A:131:C:H2'	1:A:132:C:C6	2.42	0.54
1:A:668:A:N1	1:A:2381:A:O2'	2.40	0.54
1:A:1011:G:H4'	1:A:2283:G:N2	2.23	0.54
1:A:1218:G:H2'	1:A:1218:G:OP2	2.08	0.54
1:A:1361:C:H2'	1:A:1362:U:H6	1.73	0.54
1:A:2046:G:H2'	1:A:2047:C:C6	2.42	0.54
1:A:2108:U:H2'	1:A:2109:G:C8	2.42	0.54
1:A:2148:A:H4'	1:A:2149:G:O5'	2.07	0.54
1:A:2360:U:H3'	30:3:42:ARG:HH21	1.72	0.54
13:M:83:ILE:HG23	13:M:86:ARG:NH1	2.22	0.54
16:P:46:ALA:HB1	16:P:50:ARG:HH11	1.72	0.54
1:a:703:G:H2'	1:a:704:U:C6	2.43	0.54
1:a:2144:U:H3	1:a:2198:A:N6	2.05	0.54
1:a:2619:G:H2'	1:a:2620:G:C8	2.42	0.54
21:u:3:TYR:HB2	21:u:57:ILE:HG12	1.87	0.54
1:A:556:C:N4	34:A:4488:HOH:O	2.30	0.54
1:A:776:G:OP1	3:C:10:THR:OG1	2.18	0.54
1:A:1029:A:H2'	1:A:1030:A:C8	2.42	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1826:C:O2'	1:A:1923:A:OP1	2.21	0.54
1:A:2021:C:OP1	1:A:2736:C:O2'	2.25	0.54
1:A:2579:G:H2'	1:A:2580:C:C6	2.43	0.54
1:A:2700:U:H1'	1:A:2734:A:N6	2.23	0.54
3:C:143:HIS:HD2	3:C:196:VAL:HG22	1.73	0.54
11:K:16:ARG:NH2	34:K:304:HOH:O	2.38	0.54
11:K:33:ARG:NH1	11:K:39:LYS:O	2.41	0.54
1:a:39:C:O2	5:e:46:ARG:NH2	2.41	0.54
1:a:116:A:OP2	1:a:117:A:H8	1.90	0.54
1:a:1316:C:H42	1:a:2032:G:H1	1.55	0.54
1:a:2366:G:H21	22:v:36:ILE:HD11	1.73	0.54
1:a:2380:C:H2'	1:a:2381:A:C8	2.42	0.54
1:a:2890:C:H4'	13:m:90:ARG:HH11	1.72	0.54
12:l:30:GLY:HA2	12:l:107:ALA:HB2	1.90	0.54
20:t:12:THR:HA	20:t:26:LYS:HA	1.90	0.54
1:A:60:G:C8	24:X:47:ASN:HB3	2.42	0.54
1:A:519:G:H4'	18:R:6:ILE:HB	1.90	0.54
1:A:563:G:H2'	1:A:564:G:C8	2.42	0.54
1:A:652:A:O4'	1:A:662:A:N6	2.41	0.54
1:A:1076:G:H2'	1:A:1077:G:H8	1.73	0.54
1:A:1825:U:H2'	1:A:1826:C:C6	2.38	0.54
1:a:971:C:H2'	1:a:972:A:C8	2.41	0.54
1:a:991:G:O6	1:a:1017:G:N2	2.41	0.54
1:a:1247:C:O2'	5:e:184:TYR:OH	2.20	0.54
1:a:1885:A:H3'	1:a:1886:G:C8	2.43	0.54
1:a:2696:U:O2'	10:j:68:GLU:OE1	2.26	0.54
6:f:133:LEU:HG	6:f:157:ILE:HB	1.90	0.54
1:A:647:G:H2'	1:A:648:G:H8	1.72	0.54
1:A:929:G:H2'	1:A:930:G:C8	2.43	0.54
1:A:1125:C:N4	1:A:1134:A:N3	2.55	0.54
1:A:1241:C:O2'	1:A:1273:G:O2'	2.13	0.54
1:A:1467:G:N2	1:A:1625:U:O2	2.40	0.54
1:A:1813:C:H1'	1:A:2621:U:H5''	1.89	0.54
1:A:2095:C:H2'	1:A:2096:U:C6	2.42	0.54
1:A:2304:C:H2'	1:A:2305:C:H6	1.73	0.54
30:3:23:VAL:HG22	30:3:49:VAL:HG22	1.89	0.54
1:a:539:A:H2'	1:a:540:A:C8	2.43	0.54
1:a:908:A:O3'	12:l:18:LYS:NZ	2.40	0.54
1:a:1895:U:H2'	1:a:1896:G:C8	2.42	0.54
1:a:2059:G:H2'	1:a:2060:G:H8	1.71	0.54
1:A:85:C:H2'	1:A:86:C:C6	2.43	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:184:A:H2'	1:A:187:C:N4	2.23	0.54
1:A:1209:G:H2'	1:A:1210:G:C8	2.42	0.54
1:A:1713:G:O2'	10:J:6:THR:OG1	2.26	0.54
28:13:5:VAL:HA	28:13:27:LYS:HE2	1.90	0.54
1:a:85:C:N4	34:a:4843:HOH:O	2.40	0.54
1:a:1586:G:H2'	1:a:1587:U:C6	2.43	0.54
1:a:1889:G:N2	1:a:1905:G:H2'	2.23	0.54
1:a:1903:C:H2'	1:a:1904:C:H6	1.73	0.54
5:e:31:HIS:HA	11:k:8:PRO:HA	1.90	0.54
18:r:28:SER:HA	18:r:70:TYR:HA	1.90	0.54
19:s:44:GLU:OE2	19:s:50:LYS:HG3	2.08	0.54
20:t:98:VAL:HA	20:t:105:ALA:HA	1.90	0.54
1:A:1052:C:H1'	9:I:106:MET:HB3	1.89	0.54
1:A:2322:A:N1	6:F:79:ASN:HB2	2.22	0.54
1:A:2659:U:H2'	1:A:2660:C:C6	2.43	0.54
16:P:71:GLN:NE2	34:P:301:HOH:O	2.34	0.54
1:a:588:C:H2'	1:a:589:U:C6	2.42	0.54
1:a:867:A:H2'	1:a:868:A:C8	2.43	0.54
1:a:1604:C:H5''	1:a:1605:A:OP2	2.08	0.54
1:a:1660:A:OP1	1:a:1663:C:N4	2.40	0.54
1:a:1898:A:H8	1:a:1898:A:OP2	1.91	0.54
1:a:1958:A:N7	1:a:1965:U:N3	2.56	0.54
1:a:2159:C:H2'	1:a:2160:C:C6	2.43	0.54
1:a:2176:G:H2'	1:a:2177:G:H8	1.73	0.54
1:a:2647:C:O2	4:d:37:ARG:NH2	2.41	0.54
5:e:18:ARG:HH11	5:e:20:LEU:HD23	1.73	0.54
10:j:16:ALA:O	10:j:17:ARG:NH1	2.41	0.54
23:w:85:LEU:HB3	23:w:89:GLU:HB2	1.89	0.54
1:A:207:A:N1	1:A:224:U:H4'	2.23	0.54
1:A:275:C:H2'	1:A:276:C:C6	2.43	0.54
1:A:348:A:H2'	1:A:349:G:O4'	2.07	0.54
1:A:1360:C:H2'	1:A:1361:C:C6	2.43	0.54
1:A:1476:C:H2'	1:A:1477:U:C6	2.43	0.54
1:A:1945:U:H2'	1:A:1946:C:H6	1.72	0.54
1:A:1970:G:H2'	1:A:1971:G:H8	1.71	0.54
1:A:2047:C:H2'	1:A:2048:C:C6	2.43	0.54
1:A:2250:G:N2	34:A:4516:HOH:O	2.40	0.54
2:B:66:A:H61	2:B:109:C:H5'	1.72	0.54
4:D:55:ASN:HB2	4:D:58:ARG:NH1	2.23	0.54
11:K:124:LYS:HG3	11:K:144:GLU:OE2	2.08	0.54
23:W:75:GLU:HA	23:W:78:LYS:NZ	2.23	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:233:A:H4'	11:k:74:GLU:HG3	1.89	0.54
1:a:634:C:H2'	1:a:635:C:H6	1.73	0.54
1:a:737:G:H4'	3:c:218:ARG:HH12	1.73	0.54
1:a:844:C:OP2	5:e:62:ARG:HB2	2.06	0.54
1:a:1231:G:H2'	1:a:1232:G:O4'	2.08	0.54
1:a:1468:G:H2'	1:a:1469:G:C8	2.43	0.54
1:a:1639:G:H2'	1:a:1640:G:C8	2.42	0.54
1:a:1734:G:H2'	1:a:1735:U:C6	2.43	0.54
1:a:2275:C:H2'	1:a:2276:C:C6	2.42	0.54
1:A:443:C:H2'	1:A:444:C:C6	2.43	0.53
1:A:1636:U:H2'	1:A:1637:G:H8	1.72	0.53
1:A:2523:U:O2'	4:D:138:PRO:O	2.26	0.53
14:N:62:LYS:HA	14:N:65:VAL:HB	1.90	0.53
15:O:104:ASN:N	15:O:104:ASN:OD1	2.40	0.53
19:S:5:TYR:OH	24:X:30:ARG:NH1	2.40	0.53
20:T:79:CYS:HB2	20:T:81:LYS:HZ1	1.72	0.53
20:T:92:ASN:HB2	20:T:94:LYS:N	2.23	0.53
22:V:68:GLU:O	22:V:79:VAL:HA	2.08	0.53
1:a:180:A:H2'	1:a:181:C:C6	2.43	0.53
1:a:787:U:H2'	1:a:788:G:C8	2.43	0.53
1:a:878:G:O2'	11:k:38:GLN:OE1	2.25	0.53
1:a:1357:G:O2'	29:7:47:ARG:NH1	2.41	0.53
1:a:1705:C:H42	1:a:2024:G:H1	1.55	0.53
1:a:2212:G:H2'	1:a:2213:G:C8	2.43	0.53
1:a:2729:U:H2'	1:a:2730:G:H8	1.72	0.53
11:k:3:LEU:HA	11:k:6:LEU:HB2	1.90	0.53
12:l:75:THR:HG21	12:l:87:LYS:NZ	2.22	0.53
1:A:86:C:H5''	1:A:87:G:H5'	1.90	0.53
1:A:124:A:N6	29:2:42:LEU:HB2	2.23	0.53
1:A:304:C:H3'	1:A:305:G:H8	1.70	0.53
16:P:112:ARG:HH12	17:Q:47:VAL:HB	1.74	0.53
20:T:30:VAL:HG22	20:T:37:VAL:HG12	1.89	0.53
1:a:71:U:O4	1:a:109:A:O2'	2.25	0.53
1:a:561:A:H2'	1:a:562:C:C6	2.42	0.53
1:a:709:G:H2'	1:a:710:G:H8	1.73	0.53
1:a:1078:A:H2	1:a:1168:G:H22	1.55	0.53
1:a:1537:G:H5'	3:c:99:ASP:OD2	2.08	0.53
1:a:2637:G:H2'	1:a:2638:C:C6	2.43	0.53
25:y:18:ASP:OD2	25:y:49:LYS:NZ	2.34	0.53
1:A:493:G:OP2	29:2:34:ARG:HD2	2.08	0.53
1:A:519:G:H2'	1:A:520:G:H8	1.73	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:900:G:H2'	1:A:901:G:C8	2.42	0.53
1:A:1970:G:H2'	1:A:1971:G:C8	2.43	0.53
1:A:1998:U:H2'	1:A:1999:A:N7	2.24	0.53
1:A:2304:C:H2'	1:A:2305:C:C6	2.44	0.53
1:A:2796:G:H2'	1:A:2797:C:C6	2.44	0.53
4:D:111:ARG:HB2	4:D:160:TYR:HB3	1.89	0.53
10:J:97:ARG:HA	10:J:117:LEU:HD13	1.90	0.53
23:W:5:CYS:HB3	23:W:10:LYS:H	1.74	0.53
23:W:24:ALA:HB2	23:W:32:LYS:HE2	1.90	0.53
1:a:815:G:O2'	1:a:1425:A:N1	2.37	0.53
1:a:1549:U:H2'	1:a:1550:C:H6	1.73	0.53
8:h:5:LEU:HD22	8:h:17:GLN:HB3	1.90	0.53
12:l:138:ASP:CG	21:u:81:ARG:HH12	2.10	0.53
1:A:1124:U:H4'	1:A:1125:C:H5'	1.89	0.53
1:A:1496:A:H2'	1:A:1497:G:O4'	2.09	0.53
8:H:38:LEU:O	8:H:43:ASN:ND2	2.40	0.53
1:a:149:A:H8	1:a:149:A:OP2	1.91	0.53
1:a:150:C:H2'	1:a:151:C:C6	2.43	0.53
1:a:1065:U:H2'	1:a:1066:A:C8	2.43	0.53
1:a:1483:C:H2'	1:a:1484:U:C6	2.44	0.53
1:a:1615:G:P	3:c:63:ARG:HH12	2.31	0.53
1:a:2216:G:H2'	1:a:2217:C:H6	1.74	0.53
1:a:2262:G:N2	1:a:2287:C:O2'	2.40	0.53
1:a:2579:G:H2'	1:a:2580:C:C6	2.43	0.53
2:b:50:G:OP1	14:n:61:ASN:ND2	2.40	0.53
11:k:4:SER:O	11:k:7:ARG:NH2	2.41	0.53
1:A:776:G:C8	3:C:208:LYS:HD2	2.44	0.53
1:A:921:G:N1	1:A:949:C:N3	2.40	0.53
1:A:1140:U:H2'	1:A:1142:A:OP2	2.08	0.53
1:A:1162:C:H2'	1:A:1163:G:C8	2.44	0.53
1:A:1303:C:H2'	1:A:1304:C:C6	2.44	0.53
1:A:1475:G:H2'	1:A:1476:C:H6	1.74	0.53
1:A:1500:A:OP2	1:A:1500:A:H2'	2.08	0.53
1:A:2242:G:H2'	1:A:2243:C:C6	2.44	0.53
2:B:28:C:OP1	14:N:36:TYR:OH	2.26	0.53
1:a:199:C:H2'	1:a:200:A:C8	2.44	0.53
1:a:795:G:OP1	1:a:2624:C:N4	2.41	0.53
1:a:872:C:H4'	1:a:2440:G:C5	2.44	0.53
1:a:1444:C:H2'	1:a:1445:C:O4'	2.08	0.53
1:a:2327:G:O2'	6:f:130:ASN:ND2	2.40	0.53
12:l:111:GLU:O	12:l:115:MET:HG2	2.08	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:27:G:O2'	1:A:537:G:N2	2.41	0.53
1:A:210:A:C4	1:A:222:A:H1'	2.43	0.53
1:A:538:A:H2	1:A:605:G:H4'	1.74	0.53
1:A:824:A:O2'	3:C:48:ARG:NH1	2.41	0.53
1:A:1399:A:OP2	1:A:1423:G:N1	2.39	0.53
15:O:106:SER:OG	15:O:109:GLU:OE1	2.21	0.53
20:T:92:ASN:HB2	20:T:94:LYS:H	1.74	0.53
1:a:399:G:O2'	1:a:427:G:O6	2.19	0.53
1:a:436:C:H42	1:a:445:G:H1	1.57	0.53
1:a:614:C:H2'	1:a:615:G:C8	2.43	0.53
1:a:1071:G:C4	1:a:1180:C:H1'	2.44	0.53
1:a:1762:G:H2'	1:a:1763:G:H8	1.73	0.53
1:a:2223:C:H2'	1:a:2224:C:C6	2.43	0.53
1:a:2510:C:OP2	1:a:2511:C:OP2	2.25	0.53
1:a:2660:C:H2'	1:a:2661:U:C6	2.44	0.53
3:c:122:ASP:OD1	3:c:122:ASP:N	2.39	0.53
11:k:87:ASP:HB3	11:k:105:LEU:HD13	1.89	0.53
19:s:53:LYS:HB3	19:s:82:GLN:HB3	1.91	0.53
1:A:309:C:H2'	1:A:310:C:C6	2.43	0.53
1:A:767:C:H2'	1:A:768:C:C6	2.44	0.53
1:A:1010:C:H2'	1:A:1011:G:H8	1.72	0.53
1:A:1453:C:H2'	1:A:1454:C:H6	1.74	0.53
1:A:2096:U:H2'	1:A:2097:U:C6	2.42	0.53
1:A:2115:G:O2'	1:A:2220:A:N1	2.30	0.53
1:A:2588:G:O2'	1:A:2591:C:OP2	2.21	0.53
3:C:85:ASP:HB2	3:C:92:ILE:HG23	1.90	0.53
1:a:29:U:C1'	16:p:11:ARG:HH12	2.21	0.53
1:a:34:C:N3	1:a:480:A:O2'	2.39	0.53
1:a:151:C:H2'	1:a:152:G:C8	2.44	0.53
1:a:860:U:H2'	1:a:861:C:H6	1.73	0.53
1:a:1010:C:H2'	1:a:1011:G:H8	1.72	0.53
1:a:1400:A:H3'	1:a:1401:G:C8	2.42	0.53
1:a:1685:C:OP1	1:a:2722:C:O2'	2.26	0.53
1:a:2372:A:HO2'	11:k:61:ARG:HH12	1.52	0.53
12:l:23:GLY:O	12:l:101:ARG:NH1	2.39	0.53
19:s:23:GLU:OE2	19:s:25:LYS:HE2	2.09	0.53
22:v:27:GLU:OE1	22:v:69:PHE:N	2.36	0.53
23:w:50:ARG:HA	23:w:58:ILE:O	2.07	0.53
1:A:8:A:H2'	1:A:9:U:C6	2.44	0.53
1:A:123:G:OP2	29:2:19:ARG:NE	2.41	0.53
1:A:128:C:OP1	1:A:1394:G:N2	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:173:C:O2'	1:A:206:G:N3	2.38	0.53
1:A:475:A:C1'	16:P:3:ARG:HH12	2.22	0.53
1:A:902:G:O2'	22:V:27:GLU:OE2	2.26	0.53
1:A:2002:G:O2'	34:A:4441:HOH:O	2.08	0.53
1:A:2796:G:H2'	1:A:2797:C:H6	1.74	0.53
2:B:42:C:C6	6:F:69:ALA:HB2	2.44	0.53
4:D:19:ARG:NH1	10:J:72:PRO:HB3	2.24	0.53
9:I:115:ARG:HA	9:I:118:LYS:HD2	1.90	0.53
16:P:65:ILE:HD13	16:P:95:LEU:HD23	1.89	0.53
20:T:31:LEU:O	20:T:35:TYR:N	2.41	0.53
1:a:45:C:OP2	1:a:204:G:H5''	2.08	0.53
1:a:359:C:H4'	20:t:73:ARG:NH1	2.24	0.53
1:a:909:G:H21	2:b:100:A:H2	1.56	0.53
1:a:1613:A:OP1	3:c:211:ARG:NH1	2.42	0.53
1:a:2063:U:O2'	34:a:4773:HOH:O	2.19	0.53
1:A:241:G:OP2	1:A:241:G:H8	1.92	0.53
1:A:644:G:H3'	1:A:645:G:H21	1.73	0.53
1:A:1769:G:H2'	1:A:1770:A:C8	2.44	0.53
1:A:2838:C:H2'	1:A:2839:C:H6	1.73	0.53
12:L:38:GLU:OE2	12:L:128:LYS:HG3	2.09	0.53
21:U:27:VAL:HA	21:U:36:LYS:HA	1.90	0.53
27:0:45:VAL:HG22	27:0:52:TYR:HB2	1.91	0.53
1:a:349:G:H2'	1:a:350:G:C8	2.43	0.53
1:a:611:U:H2'	1:a:612:C:C6	2.44	0.53
1:a:652:A:O3'	1:a:653:G:H8	1.92	0.53
1:a:1531:G:H2'	1:a:1532:A:H8	1.74	0.53
1:a:2316:G:H22	1:a:2324:U:H3	1.57	0.53
3:c:60:ARG:NH1	3:c:86:PRO:O	2.41	0.53
9:i:54:VAL:HB	9:i:122:VAL:HA	1.90	0.53
12:l:75:THR:OG1	12:l:88:GLY:O	2.27	0.53
16:p:91:ASP:OD2	16:p:93:LYS:HB3	2.09	0.53
26:z:28:LYS:HB2	26:z:31:ILE:HD11	1.90	0.53
1:A:218:A:C4	1:A:218:A:OP2	2.62	0.53
1:A:302:A:H61	1:A:386:U:H3	1.57	0.53
1:A:396:C:H5'	1:A:397:G:H5'	1.91	0.53
1:A:569:G:N1	1:A:572:A:OP2	2.21	0.53
1:A:603:C:H2'	1:A:604:C:C6	2.44	0.53
1:A:1263:C:OP2	16:P:15:LYS:NZ	2.40	0.53
1:A:1377:A:O2'	1:A:1378:G:N2	2.42	0.53
1:A:2831:A:OP2	1:A:2832:G:OP2	2.27	0.53
13:M:22:ARG:NH2	13:M:68:ARG:O	2.42	0.53

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:30:ASN:HB3	21:U:90:VAL:HB	1.91	0.53
1:a:175:G:H2'	1:a:176:G:C8	2.44	0.53
1:a:178:G:H2'	1:a:194:G:H22	1.74	0.53
1:a:287:G:N3	1:a:289:G:H1'	2.24	0.53
1:a:512:C:H42	1:a:519:G:H1	1.56	0.53
1:a:634:C:H2'	1:a:635:C:C6	2.44	0.53
1:a:1468:G:H5''	1:a:1539:C:OP2	2.08	0.53
1:a:1815:A:H5''	34:a:5734:HOH:O	2.09	0.53
1:a:1899:A:C5	1:a:1900:G:H1'	2.44	0.53
1:a:2095:C:H5'	3:c:229:VAL:HG12	1.91	0.53
22:v:11:ARG:NH2	34:v:202:HOH:O	2.39	0.53
1:A:345:G:C2	1:A:365:G:H4'	2.44	0.52
1:A:996:C:H2'	1:A:997:G:C8	2.42	0.52
1:A:1077:G:H5''	31:4:8:LYS:HE3	1.91	0.52
1:A:1800:G:H2'	1:A:1801:G:H8	1.74	0.52
1:A:2701:U:OP1	1:A:2732:G:N1	2.38	0.52
7:G:42:ARG:NH1	7:G:42:ARG:HB2	2.24	0.52
14:N:59:LYS:HD2	14:N:60:GLY:N	2.24	0.52
1:a:642:G:P	5:e:205:ARG:HH12	2.31	0.52
1:a:1484:U:H2'	1:a:1485:A:H8	1.75	0.52
18:r:14:PRO:HG2	18:r:78:GLU:OE2	2.10	0.52
1:A:406:G:H1	1:A:422:U:H3	1.56	0.52
1:A:593:G:H1'	1:A:1029:A:N6	2.24	0.52
1:A:1015:C:H2'	1:A:1016:C:C6	2.44	0.52
1:A:1595:C:H2'	1:A:1596:C:C6	2.43	0.52
1:A:2231:G:H2'	1:A:2232:G:H8	1.73	0.52
1:A:2233:G:H2'	1:A:2234:G:H8	1.74	0.52
1:A:2840:G:OP1	4:D:76:ARG:NH2	2.40	0.52
2:B:39:A:H5'	14:N:93:LYS:HZ2	1.72	0.52
15:O:118:ARG:NH1	15:O:125:ARG:HH22	2.07	0.52
23:W:5:CYS:HB3	23:W:10:LYS:N	2.23	0.52
1:a:22:C:H42	1:a:543:G:H1	1.56	0.52
1:a:184:A:H1'	1:a:239:G:H21	1.74	0.52
1:a:293:C:H2'	1:a:294:C:C6	2.45	0.52
1:a:1454:C:H2'	1:a:1455:C:C6	2.45	0.52
1:a:1588:G:H5''	1:a:1589:A:OP2	2.08	0.52
1:a:1836:U:H5''	3:c:250:TRP:CD2	2.44	0.52
1:a:2123:G:H2'	1:a:2124:U:C6	2.45	0.52
1:a:2369:U:H2'	1:a:2371:C:OP2	2.09	0.52
1:a:2685:G:H2'	1:a:2686:G:H8	1.74	0.52
1:A:790:G:O2'	1:A:1706:U:OP1	2.24	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1035:G:OP1	1:A:1203:G:O2'	2.27	0.52
1:A:1410:G:H2'	1:A:1412:A:OP2	2.09	0.52
1:A:1880:G:H1	1:A:1915:C:H42	1.57	0.52
1:A:2040:G:N3	16:P:34:LYS:NZ	2.56	0.52
1:A:2085:C:H2'	1:A:2086:C:H6	1.74	0.52
1:A:2136:A:H3'	1:A:2137:G:H8	1.74	0.52
1:A:2343:G:H4'	22:V:43:THR:N	2.24	0.52
1:A:2429:C:H2'	1:A:2430:A:C8	2.44	0.52
1:A:2602:A:H2'	1:A:2603:C:H6	1.74	0.52
5:E:107:LYS:HG3	5:E:206:ILE:HA	1.91	0.52
15:O:118:ARG:HH12	15:O:125:ARG:NH2	2.08	0.52
16:P:45:TYR:O	16:P:49:HIS:ND1	2.43	0.52
1:a:1033:G:O2'	1:a:1046:A:N3	2.32	0.52
1:a:1198:C:H2'	1:a:1199:C:H6	1.74	0.52
3:c:228:PRO:HG3	3:c:235:GLY:HA3	1.91	0.52
6:f:5:VAL:HB	6:f:104:GLU:OE2	2.10	0.52
10:j:9:GLU:OE2	10:j:18:LYS:NZ	2.37	0.52
13:m:44:LEU:HD22	13:m:48:VAL:HG23	1.91	0.52
14:n:64:GLU:HG2	14:n:67:ARG:HH21	1.75	0.52
16:p:59:ARG:NH1	16:p:59:ARG:HB2	2.25	0.52
29:7:29:LYS:HA	29:7:32:LYS:HB3	1.92	0.52
1:A:483:A:H8	1:A:483:A:OP2	1.92	0.52
1:A:515:G:H2'	1:A:516:G:O4'	2.09	0.52
1:A:908:A:N3	2:B:79:C:O2'	2.43	0.52
1:A:926:G:H2'	1:A:927:G:C8	2.44	0.52
1:A:1608:G:H2'	1:A:1609:A:C8	2.44	0.52
1:A:2683:A:H2'	1:A:2684:G:O4'	2.10	0.52
1:A:2741:U:H5'	10:J:70:LYS:NZ	2.25	0.52
1:A:2837:C:H2'	1:A:2838:C:C6	2.44	0.52
15:O:54:ARG:HA	15:O:59:THR:HG22	1.91	0.52
28:13:35:GLU:HG2	28:13:50:ARG:HD3	1.91	0.52
1:a:624:C:H4'	5:e:104:LYS:HD3	1.91	0.52
1:a:827:G:OP1	3:c:218:ARG:NH1	2.42	0.52
1:a:1823:G:O2'	1:a:1861:C:OP1	2.23	0.52
1:a:2241:C:H2'	1:a:2242:G:C8	2.38	0.52
1:a:2478:C:HO2'	12:l:123:HIS:HD1	1.57	0.52
1:a:2765:C:H3'	1:a:2766:A:H8	1.74	0.52
17:q:4:ILE:HA	17:q:12:TYR:O	2.08	0.52
22:v:23:VAL:HG13	22:v:38:VAL:HG22	1.90	0.52
1:A:180:A:O2'	1:A:725:C:O2	2.24	0.52
1:A:241:G:OP1	11:K:50:ARG:NH1	2.29	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:877:G:N7	1:A:2460:A:O2'	2.38	0.52
1:A:1296:G:H5''	16:P:6:THR:HG23	1.91	0.52
1:A:1379:C:H2'	1:A:1380:G:H8	1.74	0.52
1:A:2204:G:H2'	1:A:2205:C:C6	2.44	0.52
1:A:2288:G:H5'	12:L:86:GLY:HA2	1.92	0.52
1:A:2479:C:O2	12:L:124:LYS:NZ	2.28	0.52
3:C:171:ASP:O	3:C:187:GLY:N	2.43	0.52
26:Z:14:ILE:HB	26:Z:22:ILE:HB	1.91	0.52
1:a:63:A:OP2	1:a:64:C:OP2	2.26	0.52
1:a:654:G:H2'	1:a:655:G:C8	2.45	0.52
1:a:809:U:H3	1:a:1477:U:H5'	1.73	0.52
1:a:946:A:C4	1:a:947:A:C8	2.97	0.52
1:a:1037:C:H2'	1:a:1038:C:C6	2.44	0.52
1:a:1549:U:H2'	1:a:1550:C:C6	2.44	0.52
1:a:1561:C:H2'	1:a:1562:U:C6	2.45	0.52
1:a:1692:G:H5''	1:a:1693:C:H5'	1.92	0.52
1:a:2564:2MU:H2'	1:a:2565:G:O5'	2.10	0.52
1:a:2619:G:H4'	34:a:6033:HOH:O	2.10	0.52
2:b:8:U:OP1	14:n:15:ARG:NH2	2.39	0.52
10:j:13:ASN:HD21	10:j:96:THR:HG23	1.73	0.52
16:p:43:GLY:HA3	17:q:73:SER:HB3	1.91	0.52
1:A:168:G:H2'	1:A:169:G:C8	2.45	0.52
1:A:489:G:C4	1:A:491:G:OP2	2.63	0.52
1:A:1005:A:HO2'	1:A:2468:C:HO2'	1.57	0.52
1:A:1703:C:H5'	4:D:136:ARG:HB2	1.92	0.52
1:A:1827:U:H2'	1:A:1828:C:C6	2.44	0.52
1:A:1978:U:H1'	1:A:2564:2MU:OP1	2.09	0.52
1:A:2101:U:H2'	1:A:2102:G:C8	2.44	0.52
1:A:2538:G:H2'	1:A:2539:C:C6	2.44	0.52
4:D:12:THR:HG22	4:D:13:ARG:H	1.74	0.52
4:D:54:GLN:OE1	4:D:76:ARG:NH1	2.43	0.52
16:P:112:ARG:NH1	17:Q:47:VAL:HB	2.25	0.52
22:V:14:ARG:NH1	22:V:14:ARG:HB2	2.24	0.52
27:O:53:ALA:HB3	27:O:55:ARG:HE	1.73	0.52
1:a:43:A:H2'	1:a:44:G:C8	2.44	0.52
1:a:150:C:H2'	1:a:151:C:H6	1.73	0.52
1:a:212:A:N6	1:a:401:A:H4'	2.24	0.52
1:a:603:C:H2'	1:a:604:C:C6	2.45	0.52
3:c:203:ASN:OD1	3:c:203:ASN:N	2.41	0.52
3:c:248:SER:HG	3:c:252:TRP:CD1	2.27	0.52
14:n:3:ARG:NH2	14:n:9:ARG:HH12	2.07	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:n:15:ARG:HB3	14:n:19:LYS:HZ3	1.74	0.52
16:p:52:ARG:HA	16:p:55:ARG:HB2	1.92	0.52
1:A:381:A:H2'	1:A:382:U:C6	2.45	0.52
1:A:1019:G:H1'	1:A:1021:G:N7	2.24	0.52
1:A:1361:C:H2'	1:A:1362:U:C6	2.44	0.52
1:A:1754:G:N2	1:A:1783:C:C2	2.78	0.52
1:A:2837:C:H2'	1:A:2838:C:H6	1.75	0.52
13:M:33:ARG:NH2	27:O:57:VAL:O	2.42	0.52
1:a:94:G:H4'	24:x:46:GLN:HA	1.91	0.52
1:a:719:C:H2'	1:a:720:C:C6	2.45	0.52
1:a:721:G:N2	1:a:2456:G:O3'	2.43	0.52
1:a:1218:G:O2'	1:a:1219:A:O5'	2.28	0.52
1:a:1825:U:H2'	1:a:1826:C:H6	1.74	0.52
26:z:18:CYS:HB2	26:z:39:CYS:HB3	1.90	0.52
1:A:1060:U:H2'	1:A:1061:G:H8	1.75	0.52
1:A:1067:A:H61	1:A:1188:A:H62	1.58	0.52
1:A:1477:U:H2'	1:A:1478:C:C6	2.45	0.52
1:A:1506:G:H2'	1:A:1508:G:OP2	2.09	0.52
1:A:1722:C:O2	4:D:128:SER:OG	2.27	0.52
1:A:2101:U:O3'	23:W:35:THR:OG1	2.28	0.52
13:M:86:ARG:NH2	13:M:117:VAL:O	2.42	0.52
14:N:70:GLY:HA3	14:N:104:GLY:HA3	1.91	0.52
14:N:85:VAL:HG11	14:N:110:LEU:HD23	1.91	0.52
25:Y:20:LYS:HB2	25:Y:20:LYS:NZ	2.24	0.52
1:a:580:U:H2'	1:a:581:G:C8	2.44	0.52
1:a:602:G:H5''	1:a:2040:G:H5''	1.91	0.52
1:a:1019:G:OP1	1:a:1232:G:O2'	2.24	0.52
1:a:1246:C:H2'	1:a:1247:C:C6	2.45	0.52
1:a:1716:A:H4'	1:a:2561:G:H5''	1.92	0.52
1:a:1766:G:H8	1:a:1770:A:H62	1.58	0.52
4:d:15:PHE:HZ	15:o:77:PRO:HG2	1.74	0.52
1:A:276:C:H2'	1:A:277:G:H8	1.74	0.52
1:A:611:U:H5''	11:K:16:ARG:HH11	1.75	0.52
1:A:634:C:N4	1:A:642:G:O6	2.27	0.52
1:A:908:A:H62	1:A:962:G:N2	2.06	0.52
1:A:925:A:H3'	1:A:926:G:H8	1.75	0.52
1:A:968:U:H2'	1:A:969:C:C6	2.45	0.52
1:A:1174:A:N7	1:A:2501:G:O2'	2.43	0.52
1:A:1684:A:H2'	1:A:1685:C:C6	2.44	0.52
2:B:89:G:H2'	2:B:90:A:C8	2.45	0.52
9:I:100:GLU:O	9:I:104:LYS:HB2	2.10	0.52

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:L:75:THR:HG21	12:L:87:LYS:NZ	2.24	0.52
28:13:9:LEU:HD13	28:13:51:GLU:HG3	1.92	0.52
1:a:374:U:H2'	1:a:375:G:O4'	2.10	0.52
1:a:549:U:O2'	1:a:579:G:OP1	2.25	0.52
1:a:815:G:H2'	1:a:816:G:C8	2.43	0.52
1:a:1495:G:H2'	1:a:1496:A:C8	2.45	0.52
1:a:1660:A:P	1:a:1660:A:H8	2.33	0.52
1:a:2451:A:H1'	1:a:2599:A:H5'	1.92	0.52
4:d:98:PRO:HG3	4:d:174:ASP:HA	1.92	0.52
8:h:3:VAL:HG12	8:h:38:LEU:HA	1.90	0.52
15:o:23:ARG:HB2	15:o:120:ARG:NH1	2.24	0.52
21:u:23:LYS:NZ	21:u:40:ASP:HB2	2.24	0.52
1:A:245:A:H2'	1:A:246:A:H8	1.75	0.52
1:A:910:A:H2'	1:A:911:G:C8	2.44	0.52
1:A:1520:G:H2'	1:A:1521:C:C6	2.45	0.52
1:A:1872:U:H2'	1:A:1873:G:C8	2.42	0.52
1:A:2086:C:H1'	1:A:2462:A:C2	2.45	0.52
1:A:2189:U:H2'	1:A:2190:G:C8	2.45	0.52
1:A:2277:U:H3'	1:A:2278:A:H2'	1.91	0.52
1:A:2302:G:H2'	1:A:2303:U:H6	1.75	0.52
13:M:8:ARG:N	13:M:43:GLU:OE2	2.40	0.52
1:a:184:A:H4'	1:a:185:A:OP2	2.11	0.52
1:a:1597:C:H2'	1:a:1598:C:C6	2.45	0.52
1:a:2033:U:OP2	18:r:16:LYS:NZ	2.33	0.52
2:b:10:C:O2'	34:b:303:HOH:O	2.17	0.52
4:d:111:ARG:HG3	4:d:160:TYR:HD2	1.75	0.52
10:j:24:VAL:HG21	10:j:33:ALA:HB2	1.92	0.52
11:k:99:LEU:HD23	11:k:102:ARG:HH21	1.74	0.52
14:n:15:ARG:HB3	14:n:19:LYS:NZ	2.26	0.52
1:A:849:A:H2'	1:A:850:U:O4'	2.09	0.51
1:A:937:A:H2'	1:A:938:G:H8	1.75	0.51
1:A:1452:U:H2'	1:A:1453:C:H6	1.75	0.51
1:A:2302:G:H2'	1:A:2303:U:C6	2.45	0.51
1:a:199:C:OP2	29:7:29:LYS:NZ	2.35	0.51
1:a:395:C:H2'	1:a:396:C:C6	2.45	0.51
1:a:952:G:H4'	12:l:67:ARG:HH21	1.76	0.51
1:a:1318:A:H5''	1:a:1693:C:N3	2.24	0.51
1:a:1777:G:H2'	1:a:1778:G:H8	1.75	0.51
1:a:1890:A:H2'	1:a:1891:G:O4'	2.10	0.51
1:a:2121:U:H2'	1:a:2122:G:H8	1.74	0.51
1:a:2176:G:H2'	1:a:2177:G:C8	2.45	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:b:28:C:H2'	2:b:29:A:H8	1.75	0.51
1:A:184:A:H4'	1:A:185:A:OP2	2.10	0.51
1:A:328:G:H2'	1:A:329:U:C6	2.46	0.51
1:A:1170:C:H2'	1:A:1171:G:O4'	2.10	0.51
1:A:1694:G:H3'	1:A:1694:G:OP2	2.10	0.51
1:A:1710:C:O2	1:A:2698:G:O2'	2.27	0.51
1:A:1826:C:H2'	1:A:1827:U:C6	2.45	0.51
1:A:2049:G:H1	1:A:2058:C:H42	1.57	0.51
1:A:2303:U:H2'	1:A:2304:C:C6	2.46	0.51
1:A:2328:C:O2'	6:F:128:ARG:NH2	2.44	0.51
2:B:27:C:H2'	2:B:28:C:C6	2.45	0.51
21:U:3:TYR:O	21:U:57:ILE:HA	2.11	0.51
24:X:56:GLN:HG2	24:X:59:ARG:NH2	2.26	0.51
1:a:830:A:O2'	1:a:832:G:OP1	2.23	0.51
1:a:1058:U:O4	9:i:28:THR:OG1	2.19	0.51
1:a:1761:G:H2'	1:a:1762:G:C8	2.45	0.51
1:a:2044:U:O2'	1:a:2629:C:H5'	2.10	0.51
1:a:2055:A:O2'	1:a:2057:G:OP2	2.28	0.51
1:a:2075:G:H2'	1:a:2076:A:H8	1.74	0.51
1:a:2418:U:N3	11:k:73:GLY:O	2.42	0.51
24:x:64:LEU:HD21	24:x:68:ARG:HE	1.73	0.51
1:A:247:G:H2'	1:A:248:G:H8	1.76	0.51
1:A:779:C:H2'	1:A:780:G:O4'	2.11	0.51
1:A:902:G:H2'	1:A:903:C:H6	1.76	0.51
1:A:1316:C:H5''	1:A:1317:G:O5'	2.09	0.51
2:B:29:A:H2'	2:B:30:C:C6	2.45	0.51
2:B:50:G:H5''	14:N:61:ASN:HD22	1.75	0.51
3:C:133:LEU:HB3	3:C:173:VAL:HG11	1.93	0.51
6:F:37:VAL:O	6:F:94:LEU:HB2	2.10	0.51
11:K:106:LEU:HD21	11:K:112:LEU:HD23	1.92	0.51
21:U:6:LYS:HB2	21:U:6:LYS:NZ	2.25	0.51
22:V:65:GLY:HA3	22:V:82:ARG:O	2.10	0.51
1:a:709:G:H2'	1:a:710:G:C8	2.45	0.51
1:a:792:G:O2'	1:a:797:A:N6	2.43	0.51
1:a:1036:A:OP2	1:a:1037:C:OP2	2.28	0.51
1:a:1115:A:H4'	1:a:1116:A:H5''	1.92	0.51
1:a:1142:A:H8	1:a:1142:A:OP2	1.93	0.51
1:a:2320:G:O2'	1:a:2322:A:N7	2.42	0.51
1:a:2573:A:H2'	1:a:2574:U:O4'	2.10	0.51
1:a:2741:U:H5'	10:j:70:LYS:HZ1	1.74	0.51
6:f:73:ALA:HB3	6:f:85:GLY:H	1.75	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:791:G:H4'	1:A:1705:C:H4'	1.91	0.51
1:A:1055:A:O2'	1:A:1056:A:O4'	2.28	0.51
1:A:2118:U:H2'	1:A:2119:C:C6	2.46	0.51
1:A:2304:C:OP1	14:N:17:ARG:NH1	2.44	0.51
1:A:2474:U:H2'	1:A:2475:C:C6	2.46	0.51
1:A:2611:G:H2'	1:A:2612:A:C8	2.45	0.51
13:M:54:LEU:HD21	13:M:65:LEU:HB3	1.93	0.51
1:a:309:C:H2'	1:a:310:C:H6	1.75	0.51
1:a:599:U:H4'	1:a:2514:G:C8	2.46	0.51
1:a:885:C:N4	1:a:985:G:H1	2.08	0.51
1:a:1262:C:OP2	16:p:15:LYS:HE2	2.11	0.51
1:a:1529:G:H2'	1:a:1530:G:H8	1.76	0.51
1:a:1865:U:H5''	1:a:1866:G:H5'	1.92	0.51
1:a:2257:U:H5''	1:a:2258:G:H5'	1.93	0.51
1:a:2451:A:N7	1:a:2598:C:H4'	2.25	0.51
1:a:2482:G:OP1	12:l:59:ARG:NH2	2.44	0.51
4:d:116:VAL:HG21	4:d:138:PRO:HB3	1.90	0.51
1:A:83:A:O5'	20:T:8:LYS:NZ	2.44	0.51
1:A:612:C:H4'	5:E:95:ARG:HD2	1.93	0.51
1:A:2039:U:O2'	27:0:10:LYS:N	2.44	0.51
1:A:2890:C:O3'	13:M:90:ARG:NH1	2.43	0.51
4:D:141:ILE:HB	4:D:154:LYS:HZ3	1.76	0.51
4:D:203:LYS:HB3	4:D:203:LYS:HZ3	1.73	0.51
9:I:12:ARG:NH2	9:I:136:GLU:OE1	2.42	0.51
20:T:28:LYS:HE3	20:T:40:GLU:HG2	1.93	0.51
1:a:545:G:H2'	1:a:546:G:C8	2.45	0.51
1:a:1218:G:OP2	1:a:1218:G:H2'	2.10	0.51
1:a:1533:G:H2'	1:a:1534:G:C8	2.46	0.51
1:a:1598:C:H2'	1:a:1599:G:O4'	2.10	0.51
1:a:1818:A:H4'	1:a:2601:A:O3'	2.10	0.51
1:a:2319:G:H1	6:f:44:GLY:HA3	1.76	0.51
1:a:2417:G:O2'	1:a:2423:A:N6	2.44	0.51
1:a:2428:C:OP1	11:k:66:GLY:N	2.38	0.51
1:a:2451:A:N3	1:a:2451:A:H2'	2.25	0.51
2:b:75:G:H21	21:u:85:HIS:CE1	2.28	0.51
3:c:75:ILE:HG21	3:c:99:ASP:HB2	1.93	0.51
4:d:185:LYS:NZ	34:d:405:HOH:O	2.42	0.51
5:e:24:LEU:HB3	5:e:115:ALA:HB2	1.93	0.51
13:m:53:HIS:HA	13:m:56:LYS:HD3	1.91	0.51
15:o:23:ARG:NH1	15:o:120:ARG:HD3	2.26	0.51
16:p:5:LYS:H	16:p:5:LYS:HD3	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2053:A:N3	1:A:2467:G:O2'	2.44	0.51
1:A:2298:A:N6	28:13:24:GLU:O	2.43	0.51
1:A:2898:C:H2'	1:A:2899:C:C6	2.46	0.51
10:J:71:ARG:HH12	10:J:77:ILE:CG2	2.22	0.51
16:P:89:GLU:H	17:Q:50:PRO:HB3	1.75	0.51
21:U:72:ARG:NH2	21:U:97:GLU:O	2.43	0.51
1:a:315:C:H2'	1:a:316:C:C6	2.44	0.51
1:a:723:A:O2'	1:a:2454:C:O2	2.29	0.51
1:a:1711:A:H61	1:a:2018:C:H42	1.59	0.51
1:a:1909:C:H2'	1:a:1910:G:O4'	2.11	0.51
1:a:1970:G:H2'	1:a:1971:G:C8	2.45	0.51
1:a:1974:A:OP1	10:j:44:LYS:NZ	2.44	0.51
1:a:2100:C:H2'	1:a:2101:U:C6	2.46	0.51
1:a:2817:G:N2	34:a:4870:HOH:O	2.44	0.51
1:a:2846:U:H2'	1:a:2847:G:C8	2.46	0.51
1:A:466:G:H2'	1:A:467:U:C6	2.45	0.51
1:A:1754:G:N2	1:A:1783:C:N3	2.58	0.51
1:A:1947:C:H2'	1:A:1948:U:C6	2.46	0.51
1:A:2050:U:H2'	1:A:2051:G:C8	2.44	0.51
1:A:2725:A:H5''	1:A:2726:A:OP2	2.11	0.51
1:A:2755:C:OP2	31:4:24:TYR:OH	2.23	0.51
2:B:77:U:H2'	2:B:78:A:H8	1.75	0.51
5:E:125:LEU:HD21	5:E:199:TRP:CD2	2.46	0.51
21:U:33:LEU:HD11	21:U:90:VAL:HG21	1.92	0.51
1:a:238:C:C2	30:8:12:LYS:NZ	2.75	0.51
1:a:733:G:OP1	29:7:11:LYS:NZ	2.34	0.51
1:a:1761:G:H2'	1:a:1762:G:H8	1.75	0.51
1:a:2368:C:H2'	1:a:2369:U:O4'	2.10	0.51
1:a:2617:PSU:O2'	1:a:2618:C:O5'	2.29	0.51
2:b:56:G:O5'	6:f:27:ASN:ND2	2.44	0.51
5:e:117:ARG:HG3	5:e:192:LEU:HD12	1.93	0.51
15:o:54:ARG:HA	15:o:59:THR:HG22	1.93	0.51
17:q:33:VAL:HG23	17:q:59:ALA:HB3	1.92	0.51
20:t:92:ASN:HB2	20:t:94:LYS:N	2.25	0.51
24:x:6:VAL:HG13	24:x:59:ARG:NH1	2.25	0.51
26:z:40:HIS:HB3	26:z:43:TYR:HB2	1.93	0.51
1:A:39:C:H2'	1:A:40:C:C6	2.46	0.51
1:A:1228:G:H4'	25:Y:29:ARG:HH11	1.76	0.51
1:A:1634:C:H2'	1:A:1635:C:C6	2.46	0.51
1:A:1942:4OC:H6	1:A:1943:G:OP2	2.11	0.51
1:A:2542:A:O2'	1:A:2544:G:OP2	2.13	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:D:51:PHE:HB3	4:D:77:ILE:HG13	1.93	0.51
15:O:16:ARG:NH2	15:O:18:ASP:OD2	2.39	0.51
1:a:202:A:H2'	1:a:203:G:C8	2.46	0.51
1:a:436:C:H2'	1:a:437:G:H8	1.76	0.51
1:a:655:G:N2	1:a:658:A:OP2	2.31	0.51
1:a:1046:A:H2'	1:a:1047:A:C8	2.46	0.51
1:a:1173:A:N7	1:a:2500:A:O2'	2.44	0.51
1:a:1269:G:C4	1:a:1271:G:OP2	2.64	0.51
1:a:1411:A:H3'	1:a:1412:A:H8	1.76	0.51
1:a:1445:C:N4	34:a:4874:HOH:O	2.44	0.51
1:a:1849:U:OP2	3:c:157:ARG:NE	2.43	0.51
1:a:2108:U:H2'	1:a:2109:G:H8	1.75	0.51
1:a:2131:U:H3	1:a:2202:U:H3	1.58	0.51
1:a:2749:G:H2'	1:a:2750:G:C8	2.44	0.51
1:a:2760:G:OP1	7:g:138:LYS:NZ	2.44	0.51
1:a:2822:G:H2'	1:a:2823:A:C8	2.46	0.51
6:f:70:VAL:HA	6:f:90:LEU:HD23	1.92	0.51
31:9:5:ALA:O	31:9:36:GLN:NE2	2.40	0.51
1:A:179:A:N6	1:A:846:G:O2'	2.42	0.51
1:A:583:C:H2'	1:A:584:G:O4'	2.11	0.51
1:A:1148:C:C2	1:A:1149:A:C8	2.99	0.51
1:A:1401:G:H2'	1:A:1402:G:H8	1.75	0.51
1:A:1677:C:N3	1:A:1682:G:N1	2.58	0.51
1:A:1715:A:O2'	1:A:1721:G:N7	2.37	0.51
1:A:1802:C:H2'	1:A:1803:G:H8	1.74	0.51
1:A:2308:U:OP2	14:N:6:ALA:HB2	2.11	0.51
1:A:2619:G:H2'	1:A:2620:G:C8	2.45	0.51
1:A:2650:G:OP2	4:D:82:ARG:NH2	2.44	0.51
22:V:11:ARG:NH1	34:V:201:HOH:O	2.43	0.51
25:Y:7:LYS:O	25:Y:54:VAL:HA	2.10	0.51
1:a:309:C:H2'	1:a:310:C:C6	2.46	0.51
1:a:558:G:N2	16:p:49:HIS:HE1	2.09	0.51
1:a:1002:A:OP2	12:l:77:LYS:HG3	2.10	0.51
1:a:2008:A:H2'	1:a:2009:G:H8	1.74	0.51
1:a:2455:C:H2'	1:a:2456:G:C8	2.46	0.51
1:a:2629:C:H2'	1:a:2630:G:O4'	2.11	0.51
5:e:14:PRO:HD2	5:e:127:GLU:OE2	2.11	0.51
30:8:46:ARG:NH1	30:8:46:ARG:HB3	2.25	0.51
1:A:343:C:H2'	1:A:344:A:H8	1.74	0.51
1:A:775:G:O2'	1:A:810:G:OP2	2.23	0.51
1:A:1451:U:H2'	1:A:1452:U:H6	1.76	0.51

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1459:G:H2'	1:A:1460:G:C8	2.46	0.51
1:A:1644:C:H5''	19:S:36:LYS:HB2	1.93	0.51
1:A:2006:G:H5'	1:A:2007:G:OP2	2.11	0.51
1:A:2083:G:P	5:E:68:LYS:HZ1	2.34	0.51
1:A:2427:G:O2'	11:K:67:MET:SD	2.69	0.51
1:A:2814:C:H2'	1:A:2815:C:H6	1.75	0.51
1:A:2850:C:H2'	1:A:2851:C:C6	2.46	0.51
2:B:24:G:H4'	2:B:25:A:N7	2.26	0.51
2:B:48:A:H2'	2:B:49:C:C6	2.45	0.51
13:M:28:LEU:HD12	13:M:48:VAL:HG11	1.93	0.51
18:R:13:SER:HB3	18:R:16:LYS:HB2	1.93	0.51
1:a:852:G:H21	1:a:878:G:H1'	1.75	0.51
1:a:1312:G:N7	18:r:15:ARG:NE	2.55	0.51
1:a:1385:G:H21	1:a:1649:A:H1'	1.75	0.51
1:a:1395:A:N6	34:a:4729:HOH:O	2.43	0.51
1:a:2549:U:H2'	1:a:2550:C:C6	2.45	0.51
2:b:75:G:H3'	2:b:76:G:C8	2.46	0.51
14:n:10:ARG:HG3	14:n:13:ARG:NH1	2.26	0.51
15:o:51:ARG:O	15:o:61:PHE:HB2	2.11	0.51
1:A:115:G:OP2	1:A:117:A:O2'	2.27	0.50
1:A:241:G:P	11:K:50:ARG:HH22	2.34	0.50
1:A:737:G:O2'	1:A:827:G:OP1	2.22	0.50
1:A:886:U:H2'	1:A:887:C:C6	2.46	0.50
1:A:1090:G:O2'	1:A:1157:A:N1	2.35	0.50
1:A:1149:A:H3'	1:A:1150:C:H6	1.75	0.50
1:A:1857:G:H2'	1:A:1858:C:C6	2.45	0.50
1:A:2342:G:O2'	22:V:41:ARG:O	2.26	0.50
15:O:25:GLY:H	15:O:49:VAL:HG13	1.76	0.50
1:a:30:G:O2'	1:a:1259:A:N3	2.39	0.50
1:a:37:C:H2'	1:a:38:A:H8	1.74	0.50
1:a:883:G:H5''	1:a:884:C:OP2	2.11	0.50
1:a:1079:U:H4'	1:a:1080:G:OP2	2.12	0.50
1:a:1382:A:H2'	1:a:1383:G:H8	1.74	0.50
1:a:1462:G:N2	1:a:1632:A:N1	2.56	0.50
1:a:1551:C:H2'	1:a:1552:C:C6	2.46	0.50
1:a:1685:C:H1'	1:a:2710:U:H1'	1.93	0.50
1:a:1743:G:H2'	1:a:1744:G:O4'	2.11	0.50
1:a:2303:U:OP1	1:a:2392:C:O2'	2.25	0.50
1:a:2798:C:H2'	1:a:2799:U:H6	1.76	0.50
1:a:2844:G:OP1	4:d:55:ASN:ND2	2.28	0.50
12:l:70:PRO:HA	12:l:95:ALA:HB2	1.92	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:w:77:ALA:HA	23:w:80:LEU:HD23	1.92	0.50
1:A:114:C:H2'	1:A:115:G:C8	2.47	0.50
1:A:247:G:H2'	1:A:248:G:C8	2.46	0.50
1:A:718:C:N4	11:K:40:SER:O	2.37	0.50
1:A:1198:C:H2'	1:A:1199:C:C6	2.46	0.50
1:A:1198:C:H2'	1:A:1199:C:H6	1.75	0.50
1:A:1362:U:H2'	1:A:1363:A:C8	2.45	0.50
5:E:96:ASP:OD1	5:E:98:SER:OG	2.25	0.50
15:O:88:ILE:HG21	15:O:91:ARG:NH1	2.26	0.50
1:a:1546:G:H2'	1:a:1547:C:C6	2.46	0.50
1:a:1554:A:H5'	1:a:1556:A:C8	2.46	0.50
1:a:1828:C:N3	1:a:1853:G:N1	2.39	0.50
1:a:2223:C:H2'	1:a:2224:C:H6	1.75	0.50
7:g:9:ILE:HG12	7:g:69:ARG:NH1	2.27	0.50
10:j:75:SER:OG	15:o:74:ARG:NH1	2.43	0.50
28:6:16:CYS:HB2	28:6:18:ARG:NH1	2.26	0.50
1:A:113:C:H2'	1:A:114:C:C6	2.46	0.50
1:A:162:G:N2	34:A:4492:HOH:O	2.33	0.50
1:A:785:G:H3'	1:A:786:G:C8	2.47	0.50
1:A:888:A:H61	1:A:982:U:H3	1.59	0.50
1:A:922:G:C2	1:A:949:C:C2	3.00	0.50
1:A:1314:A:H3'	1:A:1315:A:H8	1.76	0.50
1:A:1959:A:O2'	1:A:1960:A:O5'	2.28	0.50
2:B:110:G:H2'	2:B:111:G:C8	2.47	0.50
5:E:185:ASP:OD1	5:E:188:ARG:NH1	2.44	0.50
6:F:10:LYS:O	6:F:14:GLU:HB2	2.11	0.50
25:Y:5:LYS:HD2	25:Y:34:GLU:OE2	2.11	0.50
1:a:604:C:OP1	16:p:33:ARG:HB2	2.11	0.50
1:a:660:C:O2'	1:a:664:U:OP1	2.28	0.50
1:a:833:C:O3'	1:a:1811:A:N6	2.44	0.50
1:a:1110:C:H3'	1:a:1111:U:H5''	1.91	0.50
1:a:2021:C:OP1	4:d:118:LYS:NZ	2.38	0.50
16:p:85:LYS:HZ3	16:p:117:GLN:HG2	1.74	0.50
1:A:205:A:C4	1:A:206:G:C8	2.99	0.50
1:A:309:C:H2'	1:A:310:C:H6	1.74	0.50
1:A:669:A:C2	1:A:2381:A:H1'	2.47	0.50
1:A:1630:A:H4'	1:A:1632:A:C8	2.46	0.50
1:A:1778:G:H2'	1:A:1779:G:H8	1.76	0.50
1:a:359:C:O2'	20:t:70:SER:O	2.25	0.50
1:a:1129:U:N3	1:a:1132:A:OP2	2.44	0.50
1:a:1822:A:H3'	1:a:1823:G:H8	1.76	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2381:A:H2'	1:a:2382:G:C8	2.46	0.50
2:b:7:G:N3	14:n:38:GLN:NE2	2.60	0.50
7:g:54:ARG:HH12	7:g:62:LYS:CD	2.24	0.50
16:p:112:ARG:NH1	17:q:47:VAL:HB	2.27	0.50
22:v:66:VAL:O	22:v:81:VAL:HA	2.11	0.50
1:A:30:G:H2'	1:A:31:C:C6	2.47	0.50
1:A:280:C:H2'	1:A:281:G:C8	2.45	0.50
1:A:353:G:O6	20:T:19:LYS:N	2.41	0.50
1:A:422:U:O2'	1:A:423:G:N7	2.32	0.50
1:A:444:C:H2'	1:A:445:G:C8	2.45	0.50
1:A:661:G:N7	11:K:113:LYS:NZ	2.38	0.50
1:A:911:G:H1'	1:A:960:C:H42	1.75	0.50
1:A:1454:C:H2'	1:A:1455:C:C6	2.47	0.50
1:A:1493:C:H2'	1:A:1494:G:C8	2.46	0.50
1:A:1542:A:H2'	1:A:1544:C:C5	2.46	0.50
12:L:42:ILE:O	12:L:95:ALA:N	2.29	0.50
24:X:54:LYS:HB3	24:X:54:LYS:HZ2	1.77	0.50
1:a:406:G:C2	1:a:423:G:C6	3.00	0.50
1:a:613:A:H2'	1:a:614:C:H6	1.77	0.50
1:a:667:G:N2	1:a:671:A:H62	2.09	0.50
1:a:1338:U:H2'	1:a:1339:C:H6	1.77	0.50
1:a:1682:G:H2'	1:a:1683:C:C6	2.46	0.50
1:a:1685:C:H2'	1:a:1686:U:O4'	2.12	0.50
1:a:2070:G:H8	1:a:2070:G:OP2	1.95	0.50
1:a:2303:U:H5'	1:a:2392:C:O2	2.12	0.50
5:e:74:ARG:O	5:e:75:HIS:ND1	2.44	0.50
10:j:29:ASN:OD1	10:j:29:ASN:N	2.44	0.50
13:m:26:LYS:O	13:m:30:THR:OG1	2.28	0.50
1:A:83:A:H2'	20:T:8:LYS:NZ	2.25	0.50
1:A:663:G:H2'	1:A:664:U:C6	2.47	0.50
1:A:936:C:O2'	1:A:937:A:O4'	2.27	0.50
1:A:1514:C:H2'	1:A:1515:C:C6	2.47	0.50
1:A:1826:C:H1'	3:C:255:LYS:NZ	2.26	0.50
1:A:2064:A:H5''	1:A:2065:C:OP2	2.11	0.50
1:A:2376:C:H2'	1:A:2377:G:O4'	2.11	0.50
6:F:101:ILE:HG22	6:F:105:LYS:HE3	1.93	0.50
19:S:26:TYR:OH	19:S:93:GLU:OE2	2.18	0.50
1:a:234:G:C6	30:8:8:LYS:NZ	2.80	0.50
1:a:240:A:C6	1:a:241:G:H1'	2.46	0.50
1:a:861:C:O2'	1:a:1270:C:N3	2.42	0.50
1:a:895:G:N2	1:a:978:A:H1'	2.27	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1207:C:H2'	1:a:1208:G:C8	2.46	0.50
1:a:1249:A:H61	1:a:1286:U:H2'	1.76	0.50
1:a:1312:G:O2'	1:a:2034:G:O6	2.29	0.50
1:a:2329:C:H2'	1:a:2330:G:O4'	2.11	0.50
1:a:2425:G:H2'	1:a:2426:G:O4'	2.12	0.50
1:a:2471:A:OP2	1:a:2472:U:OP2	2.29	0.50
1:a:2674:A:OP2	1:a:2674:A:H8	1.95	0.50
1:a:2825:C:H2'	1:a:2826:C:H6	1.76	0.50
2:b:57:A:OP2	2:b:58:A:OP2	2.29	0.50
10:j:68:GLU:HB3	10:j:78:ARG:NH1	2.26	0.50
10:j:80:ASP:OD2	15:o:71:GLY:HA3	2.12	0.50
1:A:777:C:H2'	1:A:778:C:H6	1.76	0.50
1:A:875:U:H4'	1:A:878:G:C6	2.46	0.50
1:A:1080:G:H2'	1:A:1081:U:O4'	2.12	0.50
1:A:1450:C:H2'	1:A:1451:U:H6	1.77	0.50
1:A:1942:4OC:C6	1:A:1943:G:OP2	2.60	0.50
1:A:2104:A:H3'	1:A:2105:G:C8	2.44	0.50
1:A:2325:C:H4'	6:F:91:ARG:HG3	1.91	0.50
1:A:2858:G:H1'	1:A:2877:G:H22	1.77	0.50
3:C:152:GLY:C	3:C:154:LYS:HZ2	2.20	0.50
5:E:185:ASP:HA	5:E:188:ARG:HD3	1.93	0.50
1:a:509:A:O2'	20:t:49:VAL:O	2.21	0.50
1:a:887:C:P	1:a:977:G:H1	2.33	0.50
1:a:955:A:H2'	1:a:958:C:H5	1.76	0.50
1:a:1104:G:H2'	1:a:1105:G:C8	2.46	0.50
1:a:1299:A:H5'	1:a:1302:G:N7	2.26	0.50
1:a:1421:C:H2'	1:a:1422:C:C6	2.46	0.50
1:a:1501:U:P	13:m:77:ARG:HH11	2.35	0.50
1:a:1546:G:H4'	3:c:102:LYS:HE3	1.94	0.50
1:a:1944:G:H2'	1:a:1945:U:H6	1.76	0.50
1:a:2480:G:H1	1:a:2493:G:HO2'	1.60	0.50
1:a:2487:C:O2	1:a:2541:G:N2	2.45	0.50
1:a:2564:2MU:O5'	1:a:2564:2MU:H1'	2.10	0.50
4:d:92:THR:OG1	4:d:93:VAL:N	2.45	0.50
9:i:65:LYS:HB2	9:i:65:LYS:NZ	2.27	0.50
13:m:38:VAL:HG22	13:m:112:ALA:HB2	1.92	0.50
14:n:10:ARG:HG2	14:n:91:PRO:HA	1.93	0.50
1:A:253:C:O2'	1:A:455:A:N6	2.34	0.50
1:A:484:G:H1'	1:A:485:U:H5	1.76	0.50
1:A:718:C:OP1	11:K:43:GLY:N	2.45	0.50
1:A:1285:G:H2'	1:A:1286:U:O4'	2.11	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1822:A:OP1	3:C:212:SER:OG	2.25	0.50
1:A:1946:C:H2'	1:A:1947:C:O4'	2.12	0.50
1:A:2073:A:H5'	1:A:2590:G:O4'	2.11	0.50
1:A:2418:U:C2	11:K:72:PRO:HG2	2.47	0.50
6:F:11:TYR:HA	6:F:15:VAL:HB	1.94	0.50
15:O:35:LYS:HG2	15:O:40:THR:HG22	1.93	0.50
15:O:92:GLY:O	15:O:120:ARG:NH2	2.45	0.50
1:a:69:G:H5''	1:a:110:U:O2	2.12	0.50
1:a:347:G:H8	5:e:171:PRO:HG3	1.77	0.50
1:a:407:U:H3	1:a:421:A:H61	1.60	0.50
1:a:1846:A:O4'	1:a:1848:G:C8	2.64	0.50
1:a:1859:G:OP2	1:a:1859:G:H8	1.95	0.50
1:a:2037:A:H8	1:a:2038:U:C6	2.30	0.50
1:a:2231:G:H2'	1:a:2232:G:H8	1.75	0.50
1:a:2360:U:OP2	30:8:38:GLY:HA3	2.11	0.50
1:a:2874:G:H2'	1:a:2875:U:C6	2.47	0.50
4:d:25:VAL:HG21	15:o:7:ILE:HG12	1.94	0.50
11:k:122:PRO:HD3	11:k:141:ALA:HB1	1.93	0.50
23:w:50:ARG:HG2	23:w:59:THR:HG22	1.94	0.50
1:A:600:G:O6	34:A:4431:HOH:O	2.18	0.50
1:A:667:G:H4'	1:A:2361:G:H4'	1.94	0.50
1:A:1060:U:H2'	1:A:1061:G:C8	2.47	0.50
1:A:1729:G:OP2	1:A:1746:G:N2	2.45	0.50
1:A:2550:C:H2'	1:A:2551:C:H6	1.77	0.50
1:A:2703:C:H2'	1:A:2704:C:H6	1.77	0.50
12:L:43:THR:HG22	12:L:94:VAL:HG12	1.94	0.50
25:Y:18:ASP:OD1	25:Y:19:GLN:N	2.45	0.50
31:4:4:ARG:O	31:4:36:GLN:HA	2.12	0.50
1:a:661:G:OP2	11:k:113:LYS:NZ	2.37	0.50
1:a:669:A:H61	1:a:2361:G:H1'	1.77	0.50
1:a:789:G:H1'	1:a:1723:A:H5'	1.93	0.50
1:a:944:C:H2'	1:a:945:A:O4'	2.12	0.50
1:a:968:U:H2'	1:a:969:C:C6	2.47	0.50
1:a:984:G:H2'	1:a:985:G:H8	1.77	0.50
1:a:2268:G:H2'	1:a:2269:U:C6	2.47	0.50
1:a:2440:G:H5''	1:a:2441:G:H5'	1.93	0.50
1:a:2702:C:H41	1:a:2726:A:H1'	1.77	0.50
6:f:81:LYS:NZ	6:f:81:LYS:HB2	2.26	0.50
13:m:13:HIS:CE1	13:m:16:HIS:HB2	2.47	0.50
21:u:57:ILE:O	21:u:69:THR:OG1	2.20	0.50
28:6:20:ASN:ND2	28:6:40:CYS:SG	2.84	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:23:G:N1	1:A:542:C:N3	2.35	0.49
1:A:646:A:H5'	1:A:647:G:OP2	2.12	0.49
1:A:1422:C:H2'	1:A:1423:G:C8	2.47	0.49
1:A:1658:C:H1'	29:2:6:GLN:HE22	1.76	0.49
1:A:1698:G:O6	1:A:2028:C:N4	2.32	0.49
1:A:1740:U:O3'	3:C:14:ARG:NH2	2.45	0.49
1:A:1851:U:H3	3:C:199:ALA:HA	1.76	0.49
9:I:27:ALA:HB3	9:I:106:MET:HE3	1.94	0.49
31:4:9:ARG:NH1	31:4:15:LYS:HA	2.25	0.49
1:a:590:A:N6	17:q:78:LYS:HB3	2.27	0.49
1:a:834:U:H3'	1:a:838:C:H42	1.76	0.49
1:a:1087:C:H2'	1:a:1088:G:C8	2.47	0.49
1:a:1313:U:H1'	34:a:5228:HOH:O	2.12	0.49
1:a:1597:C:H2'	1:a:1598:C:H6	1.77	0.49
1:a:1908:C:H2'	1:a:1909:C:C6	2.46	0.49
1:a:1945:U:H2'	1:a:1946:C:H6	1.77	0.49
1:a:2053:A:C6	1:a:2510:C:H1'	2.47	0.49
1:a:2061:C:OP2	9:i:109:LYS:HE3	2.11	0.49
1:a:2431:U:H2'	1:a:2432:C:C6	2.47	0.49
1:a:2741:U:H2'	1:a:2742:G:H8	1.77	0.49
1:a:2741:U:H5'	10:j:70:LYS:NZ	2.26	0.49
2:b:5:C:O2	2:b:116:G:N2	2.33	0.49
4:d:174:ASP:OD1	4:d:175:VAL:N	2.45	0.49
8:h:2:LYS:HD3	8:h:20:ASP:OD2	2.12	0.49
18:r:12:ILE:HD13	18:r:13:SER:H	1.75	0.49
21:u:30:ASN:OD1	21:u:32:HIS:ND1	2.45	0.49
22:v:46:LYS:NZ	34:v:201:HOH:O	2.15	0.49
23:w:3:LYS:CB	23:w:61:ARG:HH12	2.25	0.49
1:A:205:A:H2'	1:A:206:G:H8	1.77	0.49
1:A:331:G:N2	1:A:354:A:H62	2.05	0.49
1:A:560:C:H4'	16:P:53:ARG:HH12	1.76	0.49
1:A:775:G:OP2	1:A:775:G:C8	2.65	0.49
1:A:1335:C:H2'	1:A:1336:C:H6	1.76	0.49
1:A:1393:G:H2'	1:A:1394:G:H8	1.77	0.49
1:A:1396:C:H2'	1:A:1397:C:C6	2.48	0.49
1:A:1957:G:H1'	1:A:1986:G:N2	2.27	0.49
3:C:167:GLY:O	3:C:174:ILE:N	2.45	0.49
9:I:35:ARG:O	9:I:42:TRP:NE1	2.45	0.49
11:K:75:ILE:O	11:K:79:ARG:NH2	2.45	0.49
16:P:8:VAL:HG22	16:P:12:ARG:HG3	1.94	0.49
1:a:781:A:C4	1:a:782:A:C8	3.00	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1124:U:H4'	1:a:1125:C:H5'	1.94	0.49
1:a:1312:G:OP1	27:5:19:ARG:NH1	2.43	0.49
1:a:1468:G:H2'	1:a:1469:G:H8	1.77	0.49
1:a:1702:A:C2	1:a:2071:G:H4'	2.48	0.49
1:a:2017:U:H3'	1:a:2018:C:H2'	1.94	0.49
1:a:2215:G:H2'	1:a:2216:G:C8	2.47	0.49
1:a:2247:G:H2'	1:a:2248:C:C6	2.48	0.49
1:a:2752:U:H3'	1:a:2776:G:H1	1.77	0.49
21:u:132:ASN:O	21:u:132:ASN:ND2	2.38	0.49
1:A:25:U:C4	1:A:26:G:C6	3.00	0.49
1:A:221:G:N1	1:A:447:C:OP1	2.45	0.49
1:A:882:A:H2'	1:A:883:G:H8	1.77	0.49
1:A:1210:G:H2'	1:A:1211:U:C6	2.47	0.49
1:A:1545:C:H2'	1:A:1546:G:H8	1.77	0.49
1:A:1626:A:H2'	1:A:1627:A:C8	2.47	0.49
1:A:1774:C:H2'	1:A:1775:C:C6	2.48	0.49
1:A:2465:A:H61	1:A:2511:C:H42	1.59	0.49
1:A:2671:G:N2	1:A:2674:A:OP2	2.42	0.49
1:A:2741:U:H2'	1:A:2742:G:C8	2.47	0.49
1:A:2748:G:H2'	1:A:2749:G:H8	1.77	0.49
9:I:123:TYR:HH	9:I:130:HIS:HE2	1.46	0.49
21:U:52:SER:O	21:U:54:HIS:N	2.45	0.49
1:a:20:C:H2'	1:a:21:A:C8	2.47	0.49
1:a:277:G:OP1	8:h:42:SER:HB2	2.11	0.49
1:a:738:C:H2'	1:a:739:C:C6	2.47	0.49
1:a:1021:G:O5'	17:q:76:LYS:NZ	2.44	0.49
1:a:1346:U:H4'	1:a:1347:A:C5'	2.42	0.49
1:a:1718:U:H2'	1:a:1720:U:OP2	2.12	0.49
1:a:1770:A:H2'	1:a:1771:G:O4'	2.12	0.49
1:a:2282:G:H3'	1:a:2283:G:H8	1.77	0.49
1:a:2525:G:H2'	1:a:2526:U:C6	2.47	0.49
1:a:2825:C:H2'	1:a:2826:C:C6	2.47	0.49
2:b:39:A:H2'	2:b:40:U:C6	2.47	0.49
15:o:20:PRO:HD2	15:o:86:ILE:HG13	1.94	0.49
20:t:31:LEU:HD12	20:t:36:ALA:HB3	1.94	0.49
1:A:200:A:H2'	1:A:201:G:C8	2.48	0.49
1:A:1197:G:O2'	16:P:77:SER:O	2.30	0.49
1:A:1677:C:C4	1:A:1679:A:OP2	2.65	0.49
1:A:1973:U:H2'	1:A:1975:A:OP2	2.12	0.49
1:A:2046:G:OP2	1:A:2056:U:H4'	2.12	0.49
1:A:2239:A:H5''	3:C:263:ARG:NH1	2.24	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2689:G:H2'	1:A:2690:C:C6	2.47	0.49
4:D:52:LEU:O	4:D:76:ARG:HG3	2.12	0.49
1:a:50:G:H22	1:a:118:U:H3	1.60	0.49
1:a:477:C:H5'	1:a:478:G:OP2	2.12	0.49
1:a:2665:U:OP2	1:a:2666:A:O2'	2.24	0.49
4:d:28:ALA:HB3	4:d:93:VAL:HG12	1.94	0.49
6:f:106:LEU:HD12	6:f:110:ALA:HB3	1.94	0.49
9:i:14:VAL:HG12	9:i:52:VAL:HG13	1.95	0.49
14:n:20:ARG:HH22	22:v:47:PRO:HG2	1.78	0.49
15:o:29:ARG:HB2	15:o:89:VAL:HG12	1.92	0.49
18:r:11:ARG:O	18:r:42:ARG:NH2	2.46	0.49
21:u:45:ASP:CG	21:u:49:ARG:HH11	2.21	0.49
1:A:52:A:H3'	1:A:53:G:H8	1.77	0.49
1:A:81:G:H2'	1:A:82:G:C8	2.47	0.49
1:A:560:C:H4'	16:P:53:ARG:NH1	2.28	0.49
1:A:621:G:H2'	1:A:622:G:O4'	2.12	0.49
1:A:661:G:OP1	11:K:132:LYS:N	2.44	0.49
1:A:1733:C:H2'	1:A:1734:G:O4'	2.11	0.49
1:A:1970:G:N2	1:A:1980:C:N3	2.45	0.49
1:A:2258:G:H2'	1:A:2259:A:C8	2.48	0.49
1:A:2303:U:H2'	1:A:2304:C:H6	1.76	0.49
1:A:2768:C:C4	31:4:19:ARG:NH1	2.80	0.49
3:C:12:SER:O	3:C:16:MET:HB2	2.12	0.49
10:J:80:ASP:OD2	15:O:71:GLY:HA3	2.12	0.49
14:N:89:ARG:NH1	14:N:89:ARG:HB2	2.27	0.49
16:P:93:LYS:HB3	16:P:93:LYS:HZ3	1.78	0.49
1:a:722:A:N3	1:a:2455:C:O2'	2.45	0.49
1:a:823:G:N2	1:a:2253:A:OP1	2.46	0.49
1:a:895:G:C2	1:a:978:A:H1'	2.47	0.49
1:a:1007:G:HO2'	1:a:2508:C:HO2'	1.60	0.49
1:a:1100:A:N6	1:a:1152:G:O6	2.46	0.49
1:a:1276:C:H2'	1:a:1277:G:H8	1.77	0.49
1:a:1400:A:H5''	3:c:38:LYS:HD3	1.95	0.49
1:a:2569:G:H2'	1:a:2570:C:C6	2.47	0.49
4:d:36:ARG:HG2	4:d:47:VAL:HG22	1.93	0.49
6:f:47:LYS:HZ1	6:f:81:LYS:HZ1	1.60	0.49
14:n:14:VAL:O	14:n:18:ILE:HG12	2.13	0.49
1:A:78:G:O2'	1:A:370:A:N3	2.44	0.49
1:A:149:A:H8	1:A:149:A:OP2	1.95	0.49
1:A:304:C:H3'	1:A:305:G:C8	2.47	0.49
1:A:465:G:H2'	1:A:466:G:H8	1.73	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1082:G:H1	1:A:1165:C:H42	1.59	0.49
1:A:1184:G:H5'	9:I:102:ALA:HB2	1.94	0.49
1:A:1352:C:H2'	1:A:1353:A:C8	2.48	0.49
1:A:1452:U:H2'	1:A:1453:C:C6	2.47	0.49
1:A:1545:C:C2	1:A:1546:G:C8	3.01	0.49
1:A:2371:C:H2'	1:A:2372:A:O4'	2.11	0.49
6:F:138:GLN:HG2	6:F:144:ILE:HG21	1.94	0.49
7:G:42:ARG:HB3	7:G:53:GLU:O	2.13	0.49
12:L:29:PHE:N	12:L:105:GLU:OE2	2.39	0.49
15:O:64:ARG:HD2	15:O:102:ILE:HD11	1.95	0.49
1:a:471:C:O2'	1:a:475:A:N3	2.39	0.49
1:a:661:G:N7	11:k:113:LYS:NZ	2.60	0.49
1:a:886:U:OP1	1:a:977:G:N2	2.45	0.49
1:a:1042:A:H4'	16:p:91:ASP:OD2	2.13	0.49
1:a:1455:C:H2'	1:a:1456:G:C8	2.48	0.49
1:a:1700:G:H1'	1:a:1701:A:OP2	2.13	0.49
1:a:2278:A:H4'	1:a:2279:A:N3	2.28	0.49
1:a:2360:U:H2'	1:a:2361:G:C8	2.47	0.49
1:a:2858:G:H21	1:a:2878:A:H62	1.60	0.49
4:d:101:ARG:HB2	4:d:201:THR:HG21	1.93	0.49
13:m:2:ARG:HG2	13:m:5:LYS:HB2	1.95	0.49
21:u:126:VAL:HG22	21:u:163:LEU:HA	1.94	0.49
21:u:169:GLU:OE2	21:u:170:THR:N	2.46	0.49
1:A:1001:G:N2	1:A:1005:A:OP2	2.40	0.49
1:A:1344:C:H2'	1:A:1345:G:O4'	2.13	0.49
1:A:1404:G:N2	1:A:1419:A:H62	2.11	0.49
1:A:1638:C:H2'	1:A:1639:G:C8	2.48	0.49
1:A:1660:A:N6	18:R:88:ARG:O	2.46	0.49
1:A:2575:U:H2'	1:A:2577:A:OP2	2.13	0.49
1:A:2600:G:H2'	1:A:2601:A:O4'	2.13	0.49
13:M:58:GLY:HA2	13:M:80:PHE:CE1	2.47	0.49
1:a:17:G:HO2'	16:p:25:TRP:CD1	2.30	0.49
1:a:1338:U:H2'	1:a:1339:C:C6	2.48	0.49
1:a:1538:G:H1	1:a:1544:C:H42	1.60	0.49
1:a:2094:G:N1	1:a:2450:U:C2	2.80	0.49
1:a:2343:G:H4'	22:v:43:THR:N	2.26	0.49
3:c:69:ARG:HD2	3:c:103:ARG:HH21	1.78	0.49
3:c:145:VAL:HG13	3:c:191:ALA:HB2	1.93	0.49
25:y:3:ARG:HB2	25:y:59:VAL:HG23	1.94	0.49
1:A:725:C:H42	1:A:847:A:H61	1.59	0.49
1:A:1595:C:H2'	1:A:1596:C:H6	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1761:G:H2'	1:A:1762:G:C8	2.48	0.49
1:A:2095:C:H5'	3:C:229:VAL:HG22	1.93	0.49
1:A:2264:G:C4	1:A:2265:G:C8	3.00	0.49
7:G:27:LYS:HG2	7:G:32:GLU:HG3	1.94	0.49
20:T:34:LYS:HZ2	20:T:36:ALA:HB2	1.77	0.49
1:a:746:A:N6	1:a:780:G:H21	2.05	0.49
1:a:1311:A:H61	1:a:2035:A:H3'	1.77	0.49
1:a:1410:G:OP2	23:w:61:ARG:NH1	2.46	0.49
1:a:1474:C:O2'	1:a:1616:A:OP2	2.27	0.49
1:a:1979:C:H2'	1:a:1980:C:C6	2.47	0.49
1:a:2769:U:OP2	31:9:19:ARG:NH2	2.45	0.49
1:a:2856:G:H2'	1:a:2857:U:C6	2.48	0.49
3:c:73:VAL:HG13	3:c:120:GLY:HA2	1.94	0.49
5:e:111:ALA:O	5:e:115:ALA:HB2	2.12	0.49
18:r:22:ASP:HA	18:r:25:ARG:NH1	2.26	0.49
1:A:1062:G:H2'	1:A:1063:G:C8	2.47	0.49
1:A:1398:U:O2'	1:A:1617:A:N3	2.40	0.49
1:A:1751:G:H2'	1:A:1752:G:H8	1.78	0.49
1:A:1863:C:N4	1:A:1995:G:H1	2.04	0.49
1:A:1914:C:N4	34:A:4526:HOH:O	2.42	0.49
1:A:1976:G:O2'	1:A:1978:U:O4	2.27	0.49
1:A:2480:G:H2'	1:A:2488:A:C2	2.48	0.49
1:A:2828:G:H2'	1:A:2829:G:C8	2.48	0.49
6:F:52:ILE:HG22	6:F:54:GLU:H	1.78	0.49
7:G:101:ARG:HH11	7:G:122:THR:HG23	1.78	0.49
12:L:31:ASP:HA	12:L:134:ARG:NH1	2.28	0.49
30:3:29:LYS:O	30:3:33:ASN:ND2	2.46	0.49
1:a:18:C:O2'	1:a:577:U:OP1	2.31	0.49
1:a:268:G:H8	1:a:268:G:OP2	1.96	0.49
1:a:927:G:H2'	1:a:928:G:C8	2.48	0.49
1:a:1003:U:OP2	12:l:14:ARG:NH1	2.45	0.49
1:a:1345:G:N2	1:a:1689:G:O6	2.46	0.49
1:a:1385:G:H5''	19:s:16:LYS:HG2	1.95	0.49
1:a:1573:G:HO2'	1:a:1591:A:H62	1.57	0.49
1:a:1912:A:C4	1:a:1913:G:C8	3.00	0.49
1:a:2357:G:N3	1:a:2393:C:H2'	2.27	0.49
11:k:100:LEU:HD12	11:k:112:LEU:HD11	1.95	0.49
13:m:29:LEU:HD11	13:m:48:VAL:HG13	1.95	0.49
21:u:121:HIS:HB2	21:u:171:ILE:HG22	1.95	0.49
23:w:52:ARG:NH1	23:w:57:GLU:HG3	2.28	0.49
1:A:64:C:H2'	1:A:65:C:H6	1.78	0.49

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:319:G:H8	1:A:319:G:OP2	1.96	0.49
1:A:441:C:H2'	1:A:442:A:H8	1.77	0.49
1:A:662:A:N1	1:A:676:G:O2'	2.42	0.49
1:A:825:G:H5'	3:C:48:ARG:HH11	1.78	0.49
1:A:860:U:H1'	1:A:1272:A:H1'	1.95	0.49
1:A:1504:A:N6	34:A:4508:HOH:O	2.37	0.49
1:A:2046:G:H2'	1:A:2047:C:H6	1.77	0.49
1:A:2549:U:H2'	1:A:2550:C:H6	1.76	0.49
1:A:2577:A:H2'	1:A:2578:A:O4'	2.13	0.49
1:A:2764:G:OP2	7:G:2:SER:HB3	2.13	0.49
2:B:120:A:N6	34:B:311:HOH:O	2.46	0.49
3:C:26:LYS:HZ2	3:C:26:LYS:CB	2.26	0.49
7:G:3:ARG:HH11	7:G:54:ARG:NH1	2.11	0.49
27:0:30:LEU:HD22	27:0:39:MET:HB3	1.93	0.49
1:a:99:G:H4'	1:a:100:G:OP2	2.12	0.49
1:a:144:C:H2'	1:a:145:G:C8	2.48	0.49
1:a:880:U:O2'	30:8:57:ARG:NH1	2.46	0.49
1:a:1170:C:H2'	1:a:1171:G:O4'	2.12	0.49
1:a:1264:G:OP2	16:p:19:LYS:HE2	2.13	0.49
1:a:1903:C:H2'	1:a:1904:C:C6	2.47	0.49
1:a:2021:C:OP1	1:a:2736:C:O2'	2.27	0.49
1:a:2815:C:H2'	1:a:2816:G:C8	2.48	0.49
23:w:3:LYS:HB2	23:w:61:ARG:HH12	1.78	0.49
1:A:788:G:H2'	1:A:789:G:C8	2.48	0.48
1:A:1871:G:H2'	1:A:1872:U:O4'	2.13	0.48
1:A:2499:G:H2'	1:A:2500:A:C8	2.48	0.48
1:A:2650:G:P	4:D:82:ARG:HH22	2.35	0.48
13:M:33:ARG:NH1	13:M:115:GLU:OE2	2.46	0.48
22:V:64:ASP:N	22:V:64:ASP:OD1	2.45	0.48
31:4:29:ASN:HD22	31:4:32:HIS:CE1	2.31	0.48
1:a:254:A:O2'	1:a:455:A:N6	2.46	0.48
1:a:496:A:H3'	1:a:497:A:H8	1.77	0.48
1:a:1550:C:H2'	1:a:1551:C:H6	1.78	0.48
1:a:1601:A:N6	34:a:4889:HOH:O	2.46	0.48
1:a:2711:C:H2'	1:a:2712:C:O4'	2.14	0.48
1:a:2830:A:P	13:m:2:ARG:HH22	2.36	0.48
4:d:18:ASP:OD2	15:o:33:LYS:HE3	2.13	0.48
4:d:34:VAL:HG12	4:d:72:VAL:HG11	1.94	0.48
6:f:105:LYS:O	6:f:109:VAL:HB	2.13	0.48
14:n:34:HIS:CD2	14:n:54:LEU:HB2	2.48	0.48
16:p:17:ILE:HG13	16:p:32:PHE:HE1	1.78	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:484:G:N2	1:A:485:U:O4	2.41	0.48
1:A:628:C:OP1	5:E:104:LYS:NZ	2.43	0.48
1:A:673:G:H2'	1:A:674:G:C8	2.48	0.48
1:A:802:C:H2'	1:A:803:C:C6	2.47	0.48
1:A:1391:C:H2'	1:A:1392:G:C8	2.48	0.48
1:A:1875:C:H2'	1:A:1876:G:C8	2.47	0.48
1:A:2340:A:H5'	21:U:199:LYS:HZ3	1.78	0.48
3:C:89:SER:O	3:C:198:ASN:ND2	2.46	0.48
3:C:242:ARG:HG2	3:C:246:PRO:HG3	1.96	0.48
7:G:55:PRO:HG2	7:G:61:HIS:CE1	2.48	0.48
14:N:26:LEU:HG	14:N:39:ILE:HG12	1.93	0.48
21:U:146:ILE:HG23	21:U:174:VAL:HG12	1.95	0.48
22:V:27:GLU:HB2	22:V:69:PHE:HD1	1.78	0.48
1:a:467:U:H2'	1:a:468:G:H8	1.78	0.48
1:a:925:A:H3'	1:a:926:G:H8	1.78	0.48
1:a:1105:G:H3'	1:a:1106:U:H2'	1.95	0.48
1:a:1434:G:H2'	1:a:1435:G:C8	2.48	0.48
1:a:2398:C:H2'	1:a:2399:U:C6	2.48	0.48
1:a:2490:A:H2'	1:a:2491:G:C8	2.48	0.48
1:a:2816:G:H2'	1:a:2817:G:H8	1.78	0.48
10:j:7:TYR:HE2	10:j:44:LYS:HG3	1.78	0.48
14:n:15:ARG:O	14:n:19:LYS:HG2	2.13	0.48
1:A:47:G:N2	1:A:48:A:N1	2.62	0.48
1:A:1249:A:H61	1:A:1286:U:H2'	1.78	0.48
1:A:1348:A:N6	34:A:4547:HOH:O	2.46	0.48
1:A:1420:G:H2'	1:A:1421:C:C6	2.48	0.48
1:A:1756:U:O2'	1:A:2869:G:O2'	2.25	0.48
1:A:2101:U:H2'	1:A:2102:G:H8	1.78	0.48
1:A:2649:U:H5''	4:D:82:ARG:HH21	1.78	0.48
1:A:2823:A:H2'	1:A:2824:C:C6	2.48	0.48
11:K:52:GLU:CG	30:3:57:ARG:HH12	2.24	0.48
11:K:100:LEU:HD22	11:K:105:LEU:HD12	1.94	0.48
1:a:114:C:O2'	1:a:124:A:N3	2.45	0.48
1:a:186:A:O2'	1:a:2256:U:OP1	2.27	0.48
1:a:268:G:O2'	1:a:269:G:H8	1.96	0.48
1:a:407:U:H2'	1:a:408:G:C8	2.48	0.48
1:a:1347:A:H1'	1:a:1348:A:H2'	1.95	0.48
1:a:1397:C:H4'	1:a:1619:A:H1'	1.95	0.48
1:a:1537:G:H4'	3:c:72:LYS:NZ	2.28	0.48
1:a:2045:G:H4'	1:a:2629:C:O3'	2.14	0.48
1:a:2367:C:H2'	1:a:2368:C:O4'	2.13	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2830:A:O2'	1:a:2831:A:OP1	2.30	0.48
21:u:33:LEU:HD11	21:u:90:VAL:HG21	1.95	0.48
21:u:60:GLU:HA	21:u:65:GLN:O	2.13	0.48
1:A:182:U:H2'	1:A:183:G:H8	1.77	0.48
1:A:491:G:H5'	29:2:12:ARG:NH1	2.26	0.48
1:A:1321:A:O2'	1:A:1692:G:N2	2.46	0.48
1:A:1391:C:H2'	1:A:1392:G:H8	1.78	0.48
1:A:1675:U:H2'	1:A:1676:G:C8	2.49	0.48
1:A:1803:G:H2'	1:A:1804:A:H4'	1.94	0.48
1:A:2484:G:N1	1:A:2487:C:H2'	2.29	0.48
1:A:2587:C:H5''	1:A:2588:G:OP2	2.13	0.48
13:M:24:GLN:HB3	13:M:44:LEU:HD21	1.95	0.48
15:O:92:GLY:HA2	15:O:116:ALA:HA	1.95	0.48
24:X:14:ARG:O	24:X:67:LYS:NZ	2.46	0.48
1:a:84:G:O2'	1:a:101:A:N1	2.45	0.48
1:a:420:C:H2'	1:a:421:A:C8	2.49	0.48
1:a:880:U:H2'	1:a:881:C:H6	1.78	0.48
1:a:881:C:C2	1:a:882:A:C8	3.01	0.48
1:a:953:U:H4'	12:l:101:ARG:HH22	1.76	0.48
1:a:1493:C:H2'	1:a:1494:G:C8	2.48	0.48
1:a:2076:A:H2	27:5:8:LYS:HB2	1.79	0.48
1:a:2750:G:H2'	1:a:2751:A:C8	2.49	0.48
1:a:2885:C:O2'	15:o:2:ASN:ND2	2.46	0.48
15:o:29:ARG:HG2	15:o:46:GLU:HB2	1.95	0.48
20:t:46:LYS:HG3	20:t:60:PHE:HB3	1.95	0.48
1:A:347:G:H2'	5:E:169:ASN:ND2	2.28	0.48
1:A:490:U:H2'	1:A:491:G:C8	2.49	0.48
1:A:708:C:O2'	11:K:14:LYS:N	2.46	0.48
1:A:817:G:O3'	29:2:10:ARG:NH1	2.43	0.48
1:A:881:C:H2'	1:A:882:A:H8	1.79	0.48
1:A:2023:A:H2'	1:A:2024:G:C8	2.48	0.48
1:A:2225:U:H2'	1:A:2226:C:H6	1.79	0.48
1:A:2262:G:O2'	1:A:2508:C:OP1	2.28	0.48
1:A:2647:C:O2'	4:D:48:GLN:OE1	2.31	0.48
2:B:101:G:H3'	2:B:102:A:H8	1.78	0.48
4:D:152:LYS:HD2	9:I:77:GLY:HA3	1.96	0.48
20:T:26:LYS:HB2	20:T:40:GLU:OE2	2.13	0.48
1:a:151:C:H2'	1:a:152:G:H8	1.78	0.48
1:a:811:A:O2'	1:a:812:G:H5'	2.14	0.48
1:a:2119:C:H2'	1:a:2120:U:C6	2.48	0.48
1:a:2258:G:H2'	1:a:2259:A:C8	2.44	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2564:2MU:H6'1	1:a:2566:U:C6	2.49	0.48
2:b:49:C:OP2	14:n:30:ARG:NH1	2.46	0.48
5:e:157:VAL:HA	5:e:176:LEU:O	2.13	0.48
7:g:41:MET:HG3	7:g:68:THR:HG21	1.95	0.48
11:k:29:LYS:O	11:k:29:LYS:HG2	2.13	0.48
12:l:75:THR:HG21	12:l:87:LYS:HZ2	1.78	0.48
15:o:60:THR:HG22	15:o:77:PRO:HA	1.95	0.48
1:A:57:G:H2'	1:A:58:U:C6	2.48	0.48
1:A:443:C:H2'	1:A:444:C:H6	1.77	0.48
1:A:472:G:H21	1:A:480:A:H61	1.60	0.48
1:A:1075:A:H2'	1:A:1076:G:O4'	2.14	0.48
1:A:1295:U:C2'	11:K:18:ARG:HH12	2.21	0.48
1:A:1302:G:N2	5:E:82:ILE:O	2.45	0.48
1:A:1575:A:H2'	1:A:1576:G:O4'	2.13	0.48
1:A:1790:A:H2'	1:A:1791:A:C8	2.48	0.48
1:A:2368:C:H2'	1:A:2369:U:O4'	2.14	0.48
1:A:2380:C:H2'	1:A:2381:A:H8	1.79	0.48
1:A:2691:A:H2'	1:A:2692:C:C6	2.48	0.48
14:N:89:ARG:HB2	14:N:89:ARG:HH11	1.79	0.48
18:R:38:TYR:CD2	27:0:30:LEU:HD21	2.48	0.48
21:U:26:GLY:HA3	21:U:86:VAL:HG23	1.96	0.48
1:a:227:C:O2'	1:a:631:A:N3	2.38	0.48
1:a:320:C:H2'	1:a:321:C:C6	2.49	0.48
1:a:628:C:O2	1:a:704:U:O2'	2.31	0.48
1:a:1703:C:H2'	1:a:1704:C:C6	2.49	0.48
1:a:2593:G:H1	1:a:2622:C:HO2'	1.58	0.48
13:m:46:GLY:O	13:m:50:HIS:HB2	2.14	0.48
17:q:19:LYS:HG3	17:q:95:LEU:HD23	1.95	0.48
29:7:26:GLY:O	29:7:30:VAL:N	2.43	0.48
1:A:75:C:H2'	1:A:76:C:C6	2.49	0.48
1:A:289:G:H2'	1:A:290:G:C8	2.48	0.48
1:A:699:C:H2'	1:A:700:A:H8	1.79	0.48
1:A:1357:G:O2'	19:S:60:ARG:NH2	2.46	0.48
1:A:1701:A:OP1	13:M:1:MET:N	2.36	0.48
1:A:1773:C:H2'	1:A:1774:C:C6	2.49	0.48
1:A:1857:G:H4'	3:C:242:ARG:NH1	2.28	0.48
1:A:2235:G:H5''	3:C:269:PHE:CZ	2.49	0.48
1:A:2407:C:H2'	1:A:2408:G:C8	2.49	0.48
1:A:2413:U:OP1	28:13:18:ARG:NH2	2.32	0.48
1:A:2831:A:OP2	4:D:110:GLY:HA3	2.13	0.48
1:A:2842:U:H5''	1:A:2843:G:H2'	1.95	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:E:122:LYS:HB3	5:E:191:ARG:HA	1.95	0.48
16:P:5:LYS:NZ	16:P:5:LYS:HB3	2.29	0.48
29:2:34:ARG:NH1	29:2:42:LEU:O	2.47	0.48
1:a:11:G:H2'	1:a:12:U:H5''	1.96	0.48
1:a:422:U:O2'	1:a:423:G:N7	2.38	0.48
1:a:554:A:OP2	9:i:114:ARG:NH2	2.47	0.48
1:a:752:A:O2'	3:c:7:LYS:HG3	2.14	0.48
1:a:1660:A:H5'	34:a:5732:HOH:O	2.13	0.48
1:a:1895:U:H2'	1:a:1896:G:H8	1.77	0.48
1:a:2053:A:N3	1:a:2467:G:O2'	2.42	0.48
1:a:2143:G:H2'	1:a:2144:U:C6	2.49	0.48
5:e:10:PRO:HA	5:e:19:GLU:OE2	2.14	0.48
1:A:548:C:H2'	1:A:549:U:O4'	2.14	0.48
1:A:599:U:H2'	1:A:600:G:C8	2.49	0.48
1:A:657:A:H2'	1:A:658:A:C8	2.49	0.48
1:A:1159:U:H2'	1:A:1160:G:C8	2.49	0.48
1:A:1171:G:O6	1:A:1172:A:N6	2.47	0.48
1:A:1400:A:H3'	1:A:1401:G:H8	1.79	0.48
1:A:1574:A:H2'	1:A:1575:A:H8	1.77	0.48
1:A:1618:A:H2'	1:A:1619:A:C8	2.48	0.48
1:A:2429:C:OP1	11:K:65:ARG:NH2	2.33	0.48
1:A:2697:G:H5'	10:J:68:GLU:OE2	2.14	0.48
1:A:2724:U:H2'	1:A:2727:G:H5''	1.96	0.48
1:A:2748:G:H2'	1:A:2749:G:C8	2.49	0.48
1:A:2800:C:H1'	4:D:62:PRO:HG3	1.96	0.48
10:J:45:GLU:HA	10:J:54:GLU:OE2	2.12	0.48
12:L:29:PHE:H	12:L:105:GLU:CD	2.21	0.48
18:R:7:ALA:HB3	18:R:103:ILE:HB	1.96	0.48
21:U:30:ASN:OD1	21:U:33:LEU:N	2.37	0.48
24:X:52:ASP:O	24:X:56:GLN:HG3	2.14	0.48
27:0:41:PRO:O	27:0:44:THR:OG1	2.23	0.48
1:a:308:U:H2'	1:a:309:C:H6	1.78	0.48
1:a:546:G:H2'	1:a:547:G:C8	2.49	0.48
1:a:994:C:H2'	1:a:995:G:H8	1.79	0.48
1:a:1116:A:H3'	1:a:1118:C:OP2	2.12	0.48
1:a:1607:G:H2'	1:a:1608:G:O4'	2.14	0.48
1:a:2222:C:OP1	23:w:50:ARG:NE	2.47	0.48
1:a:2273:C:C2	1:a:2274:U:C5	3.02	0.48
1:a:2413:U:OP2	1:a:2414:C:N4	2.46	0.48
1:a:2858:G:H1'	1:a:2877:G:H1	1.78	0.48
2:b:28:C:OP1	14:n:36:TYR:OH	2.31	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
11:k:47:ASP:OD2	11:k:49:ARG:NH2	2.47	0.48
1:A:212:A:H61	1:A:401:A:H4'	1.79	0.48
1:A:599:U:O2'	1:A:2514:G:N7	2.45	0.48
1:A:1800:G:O2'	1:A:1980:C:OP1	2.21	0.48
1:A:1815:A:N6	34:A:4509:HOH:O	2.37	0.48
1:A:2274:U:H2'	1:A:2275:C:C6	2.48	0.48
4:D:110:GLY:O	13:M:3:HIS:NE2	2.46	0.48
1:a:736:A:H2'	1:a:737:G:C8	2.49	0.48
1:a:1416:C:H5'	34:a:6763:HOH:O	2.14	0.48
1:a:1982:A:H2'	1:a:1983:C:C6	2.48	0.48
1:a:2362:C:H2'	1:a:2363:G:O4'	2.14	0.48
1:a:2541:G:H5''	1:a:2542:A:H5''	1.95	0.48
1:a:2585:C:H5''	1:a:2586:G:H5''	1.96	0.48
1:a:2697:G:OP1	10:j:78:ARG:NH2	2.46	0.48
1:a:2796:G:H21	4:d:37:ARG:NH1	2.12	0.48
2:b:30:C:OP2	14:n:32:LEU:HD11	2.14	0.48
5:e:148:LEU:HD21	5:e:191:ARG:HD3	1.95	0.48
9:i:51:PHE:CZ	9:i:119:ARG:HG2	2.49	0.48
1:A:95:G:OP2	1:A:95:G:H8	1.96	0.48
1:A:277:G:H2'	1:A:278:G:H8	1.75	0.48
1:A:374:U:H2'	1:A:375:G:C8	2.49	0.48
1:A:665:C:H2'	1:A:666:C:C6	2.48	0.48
1:A:699:C:H2'	1:A:700:A:C8	2.49	0.48
1:A:817:G:H5'	34:A:4630:HOH:O	2.13	0.48
1:A:937:A:H2'	1:A:938:G:C8	2.48	0.48
1:A:1547:C:H2'	1:A:1548:C:H6	1.77	0.48
1:A:1763:G:H2'	1:A:1764:G:C8	2.49	0.48
1:A:2389:A:H2'	1:A:2390:A:C8	2.49	0.48
1:A:2458:G:N2	1:A:2461:U:O2	2.47	0.48
1:A:2798:C:H2'	1:A:2799:U:H6	1.78	0.48
13:M:58:GLY:HA2	13:M:80:PHE:HE1	1.79	0.48
13:M:67:LEU:O	13:M:71:GLN:NE2	2.47	0.48
25:Y:16:PRO:HB2	25:Y:18:ASP:OD1	2.14	0.48
1:a:613:A:H2'	1:a:614:C:C6	2.49	0.48
1:a:840:A:OP2	1:a:2094:G:H5'	2.13	0.48
1:a:1523:C:H2'	1:a:1524:A:C8	2.49	0.48
1:a:1566:U:H2'	1:a:1567:G:O4'	2.13	0.48
1:a:1587:U:H2'	1:a:1588:G:O4'	2.13	0.48
1:a:1964:5MC:OP2	1:a:1965:U:O2'	2.20	0.48
1:a:2761:A:H5'	7:g:4:ILE:HD12	1.95	0.48
10:j:37:ASP:N	10:j:37:ASP:OD1	2.47	0.48

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:r:46:PHE:O	18:r:50:VAL:HG23	2.14	0.48
1:A:17:G:H2'	1:A:18:C:C6	2.49	0.47
1:A:397:G:H4'	1:A:398:A:OP2	2.13	0.47
1:A:1345:G:N1	1:A:1687:C:OP2	2.45	0.47
1:A:1453:C:H2'	1:A:1454:C:C6	2.49	0.47
1:A:1716:A:H5''	1:A:1717:C:OP2	2.14	0.47
1:A:2592:U:H3'	1:A:2593:G:C2	2.49	0.47
4:D:87:GLU:N	4:D:87:GLU:OE1	2.47	0.47
1:a:715:G:H5'	1:a:716:G:OP2	2.13	0.47
1:a:1617:A:H2'	1:a:1618:A:C8	2.49	0.47
1:a:1732:C:H2'	1:a:1733:C:C6	2.48	0.47
1:a:1794:G:H5'	1:a:1795:G:OP2	2.14	0.47
1:a:2826:C:H5'	13:m:99:LYS:HZ2	1.78	0.47
12:l:127:ILE:HD13	12:l:127:ILE:H	1.78	0.47
1:A:334:A:O2'	1:A:336:G:N7	2.40	0.47
1:A:630:U:H5	1:A:645:G:C4	2.33	0.47
1:A:737:G:H4'	3:C:218:ARG:HH22	1.79	0.47
1:A:994:C:H2'	1:A:995:G:C8	2.49	0.47
1:A:1152:G:H2'	1:A:1153:G:C8	2.47	0.47
1:A:1211:U:H2'	1:A:1212:C:C5	2.49	0.47
1:A:1261:G:P	16:P:12:ARG:HH21	2.37	0.47
1:A:1427:G:C4	1:A:1428:G:C8	3.03	0.47
1:A:1917:C:H2'	1:A:1918:G:H8	1.79	0.47
1:A:1998:U:H2'	1:A:1999:A:C8	2.49	0.47
1:A:2222:C:P	23:W:50:ARG:HE	2.36	0.47
1:A:2684:G:C2	1:A:2685:G:C8	3.02	0.47
1:A:2823:A:H2'	1:A:2824:C:H6	1.80	0.47
7:G:46:GLU:HB2	7:G:49:VAL:O	2.14	0.47
9:I:67:LEU:HA	9:I:87:LEU:HB2	1.95	0.47
11:K:32:THR:OG1	34:K:301:HOH:O	2.20	0.47
14:N:11:LYS:HB2	14:N:91:PRO:HB3	1.95	0.47
1:a:121:G:O3'	1:a:1422:C:H4'	2.14	0.47
1:a:337:C:H2'	1:a:338:A:C8	2.49	0.47
1:a:822:G:OP1	1:a:824:A:O2'	2.26	0.47
1:a:1244:U:H1'	16:p:4:ALA:HB2	1.96	0.47
1:a:1385:G:OP1	19:s:78:LYS:NZ	2.47	0.47
1:a:1485:A:H62	1:a:1599:G:H21	1.63	0.47
1:a:1698:G:N2	1:a:2029:C:C4	2.82	0.47
1:a:2255:U:H2'	1:a:2256:U:C6	2.48	0.47
1:a:2822:G:H2'	1:a:2823:A:H8	1.79	0.47
9:i:56:ASN:N	9:i:125:GLY:O	2.38	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
12:l:65:PHE:HB2	12:l:105:GLU:O	2.14	0.47
12:l:89:ASN:OD1	12:l:89:ASN:N	2.47	0.47
1:A:77:A:H2'	1:A:78:G:C8	2.49	0.47
1:A:175:G:H2'	1:A:176:G:H8	1.77	0.47
1:A:310:C:H2'	1:A:311:C:H6	1.79	0.47
1:A:382:U:H2'	1:A:383:A:H8	1.78	0.47
1:A:641:G:OP1	5:E:40:GLN:NE2	2.47	0.47
1:A:1804:A:C8	1:A:1860:A:C8	3.02	0.47
1:A:2710:U:H2'	1:A:2711:C:C6	2.49	0.47
15:O:28:VAL:HG13	15:O:86:ILE:HG23	1.96	0.47
21:U:25:PRO:O	21:U:85:HIS:HA	2.14	0.47
30:3:32:LEU:HG	30:3:34:TRP:HZ3	1.79	0.47
1:a:1034:A:C6	25:y:13:ILE:HD13	2.49	0.47
1:a:1367:A:C2	1:a:1368:A:H1'	2.49	0.47
1:a:1463:C:N3	1:a:1628:G:N1	2.41	0.47
1:a:1676:G:H2'	1:a:1677:C:C6	2.49	0.47
1:a:2724:U:OP1	1:a:2727:G:H4'	2.14	0.47
1:a:2754:A:OP1	31:9:22:ARG:NH2	2.45	0.47
12:l:51:ARG:O	12:l:55:VAL:HG12	2.14	0.47
22:v:27:GLU:HB2	22:v:69:PHE:HD1	1.79	0.47
1:A:32:C:N4	1:A:500:G:O6	2.47	0.47
1:A:399:G:O2'	1:A:427:G:O6	2.18	0.47
1:A:492:A:N1	1:A:842:C:O2'	2.45	0.47
1:A:872:C:H2'	1:A:873:U:C6	2.50	0.47
1:A:1039:G:N2	17:Q:23:GLU:OE2	2.47	0.47
1:A:1447:G:H2'	1:A:1448:C:C6	2.48	0.47
1:A:1452:U:O2'	34:A:4458:HOH:O	2.20	0.47
1:A:2177:G:H2'	1:A:2178:G:C8	2.49	0.47
1:A:2687:A:H5'	10:J:29:ASN:O	2.14	0.47
1:A:2709:G:H1	1:A:2722:C:H42	1.61	0.47
4:D:181:LEU:HD22	15:O:6:LEU:HD12	1.96	0.47
4:D:203:LYS:HB3	4:D:203:LYS:NZ	2.27	0.47
6:F:82:LEU:HD22	6:F:83:ARG:H	1.79	0.47
13:M:62:ALA:O	13:M:66:VAL:HG23	2.15	0.47
13:M:103:ARG:HH12	13:M:110:PRO:HD3	1.80	0.47
21:U:15:PRO:O	21:U:19:ARG:HB2	2.15	0.47
1:a:517:A:H2'	1:a:518:G:O4'	2.15	0.47
1:a:2017:U:O2'	34:a:4775:HOH:O	2.20	0.47
1:a:2790:G:OP2	1:a:2794:A:H1'	2.14	0.47
1:a:2834:C:H2'	1:a:2835:C:O4'	2.14	0.47
3:c:66:ASP:OD2	3:c:103:ARG:NH2	2.47	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:u:8:TYR:HB2	21:u:38:TYR:CE2	2.50	0.47
29:7:19:ARG:HA	29:7:22:MET:HB2	1.96	0.47
1:A:539:A:H2'	1:A:540:A:C8	2.49	0.47
1:A:579:G:H2'	1:A:580:U:O4'	2.14	0.47
1:A:727:G:H2'	1:A:728:G:C8	2.50	0.47
1:A:738:C:H5'	3:C:218:ARG:NH1	2.29	0.47
1:A:845:G:H2'	1:A:846:G:C8	2.50	0.47
1:A:968:U:H2'	1:A:969:C:H6	1.79	0.47
1:A:998:A:H2'	1:A:999:G:H8	1.79	0.47
1:A:1014:U:O3'	25:Y:14:GLY:HA2	2.14	0.47
1:A:1211:U:O2	1:A:1229:G:N2	2.42	0.47
1:A:1939:PSU:HO2'	1:A:1940:A:P	2.38	0.47
1:A:2830:A:O2'	1:A:2831:A:OP1	2.28	0.47
31:4:15:LYS:HE3	31:4:26:ILE:HD12	1.96	0.47
1:a:138:G:H8	1:a:138:G:OP2	1.97	0.47
1:a:434:G:H1	1:a:447:C:H42	1.61	0.47
1:a:1035:G:C5	25:y:13:ILE:HD11	2.49	0.47
1:a:1777:G:H2'	1:a:1778:G:C8	2.50	0.47
1:a:1833:A:H2'	1:a:1834:A:C8	2.49	0.47
1:a:2302:G:H2'	1:a:2303:U:C6	2.50	0.47
1:a:2649:U:OP1	4:d:82:ARG:NE	2.47	0.47
1:a:2720:G:H2'	1:a:2721:G:C8	2.48	0.47
2:b:29:A:H2'	2:b:30:C:C6	2.50	0.47
3:c:2:ALA:N	3:c:200:ASP:OD2	2.48	0.47
5:e:184:TYR:HE1	11:k:3:LEU:HD21	1.79	0.47
10:j:53:LYS:HG2	10:j:56:ASP:OD2	2.15	0.47
27:5:35:GLU:HG3	27:5:51:TYR:HB2	1.96	0.47
1:A:75:C:H2'	1:A:76:C:H6	1.80	0.47
1:A:420:C:H2'	1:A:421:A:C8	2.50	0.47
1:A:1094:A:C5	1:A:1095:C:C5	3.02	0.47
1:A:1368:A:O2'	18:R:84:ARG:NH2	2.48	0.47
1:A:1604:C:H5''	1:A:1605:A:OP2	2.14	0.47
1:A:2450:U:O2'	1:A:2452:C:OP1	2.24	0.47
1:A:2798:C:H2'	1:A:2799:U:C6	2.50	0.47
2:B:28:C:H2'	2:B:29:A:C8	2.50	0.47
9:I:32:THR:HG22	9:I:37:LYS:HD3	1.96	0.47
1:a:167:G:H2'	1:a:168:G:C8	2.50	0.47
1:a:561:A:N6	1:a:581:G:O6	2.47	0.47
1:a:578:U:O2'	1:a:579:G:N7	2.42	0.47
1:a:770:G:H5'	34:a:6249:HOH:O	2.15	0.47
1:a:943:C:H2'	1:a:944:C:C6	2.50	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1223:C:H2'	1:a:1224:C:C6	2.49	0.47
1:a:1513:G:H2'	1:a:1594:C:H41	1.80	0.47
1:a:1732:C:H2'	1:a:1733:C:H6	1.80	0.47
1:a:1979:C:H2'	1:a:1980:C:H6	1.79	0.47
1:a:2111:U:H2'	1:a:2112:G:C8	2.50	0.47
1:a:2225:U:H2'	1:a:2226:C:C6	2.50	0.47
1:a:2334:A:H2'	1:a:2335:G:O4'	2.15	0.47
1:a:2479:C:H5''	31:9:8:LYS:HZ3	1.79	0.47
1:a:2715:C:OP2	1:a:2716:C:OP2	2.32	0.47
1:a:2747:A:H62	1:a:2783:G:N2	2.13	0.47
2:b:38:C:H2'	2:b:39:A:C8	2.50	0.47
3:c:12:SER:O	3:c:16:MET:HB2	2.14	0.47
6:f:56:ALA:HA	6:f:59:GLU:OE2	2.15	0.47
9:i:49:GLY:N	9:i:119:ARG:NH1	2.62	0.47
15:o:52:ILE:O	15:o:98:LYS:NZ	2.48	0.47
1:A:551:A:H1'	1:A:2066:C:H1'	1.97	0.47
1:A:597:C:N4	4:D:145:LYS:HZ1	2.12	0.47
1:A:697:C:H2'	1:A:698:G:C8	2.50	0.47
1:A:1458:A:H2'	1:A:1459:G:H8	1.79	0.47
1:A:1560:U:H2'	1:A:1561:C:C6	2.49	0.47
1:A:1683:C:H2'	1:A:1684:A:C8	2.50	0.47
1:A:1803:G:N2	1:A:1805:C:H5'	2.30	0.47
1:A:1832:G:OP1	1:A:1832:G:N2	2.34	0.47
1:A:2120:U:H3	1:A:2213:G:H1	1.63	0.47
1:A:2212:G:H2'	1:A:2213:G:C8	2.49	0.47
1:A:2353:G:H2'	1:A:2354:C:C6	2.50	0.47
1:A:2438:A:H4'	1:A:2439:C:OP2	2.15	0.47
1:A:2593:G:N2	1:A:2593:G:OP2	2.47	0.47
1:A:2692:C:H4'	4:D:8:LYS:NZ	2.30	0.47
1:A:2694:U:H2'	1:A:2695:C:C6	2.49	0.47
1:A:2763:A:H1'	1:A:2765:C:H41	1.79	0.47
1:A:2870:A:C8	1:A:2871:G:H1'	2.50	0.47
2:B:83:G:N2	34:B:305:HOH:O	2.31	0.47
3:C:143:HIS:ND1	3:C:192:THR:O	2.42	0.47
6:F:10:LYS:HE2	6:F:15:VAL:HG23	1.97	0.47
9:I:34:LEU:HD21	9:I:120:LEU:HG	1.96	0.47
14:N:11:LYS:HD3	14:N:91:PRO:HD3	1.95	0.47
15:O:93:ARG:N	15:O:115:ARG:O	2.43	0.47
17:Q:76:LYS:HD2	17:Q:79:VAL:HG11	1.97	0.47
20:T:41:GLY:N	20:T:64:GLU:OE2	2.48	0.47
1:a:195:U:H2'	1:a:196:A:H8	1.79	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:297:C:C2	1:a:298:G:C8	3.02	0.47
1:a:353:G:OP1	20:t:71:LYS:NZ	2.43	0.47
1:a:435:G:H2'	1:a:436:C:O4'	2.15	0.47
1:a:589:U:H2'	1:a:590:A:O4'	2.15	0.47
1:a:775:G:H4'	3:c:13:ARG:HE	1.80	0.47
1:a:822:G:H4'	1:a:823:G:O5'	2.15	0.47
1:a:1260:G:H1	1:a:1280:U:H3	1.62	0.47
1:a:1435:G:H2'	1:a:1436:U:H6	1.78	0.47
1:a:1624:C:H2'	1:a:1625:U:C6	2.50	0.47
1:a:1675:U:H2'	1:a:1676:G:C8	2.49	0.47
1:a:1787:G:H4'	1:a:1789:G:H5''	1.96	0.47
1:a:1886:G:H2'	1:a:1887:G:C8	2.50	0.47
1:a:2266:C:C2	1:a:2267:G:C8	3.02	0.47
1:a:2561:G:H2'	1:a:2562:G:H8	1.80	0.47
1:a:2665:U:H5''	1:a:2666:A:OP2	2.15	0.47
1:a:2693:C:P	4:d:109:LYS:NZ	2.88	0.47
1:a:2693:C:P	4:d:109:LYS:HZ1	2.37	0.47
3:c:52:ARG:HH12	3:c:249:PRO:HG2	1.76	0.47
3:c:74:GLY:N	3:c:119:ALA:O	2.35	0.47
6:f:5:VAL:HG21	6:f:100:TRP:HB3	1.97	0.47
12:l:26:TYR:HB2	12:l:138:ASP:HA	1.96	0.47
15:o:88:ILE:HG21	15:o:91:ARG:HD3	1.95	0.47
16:p:94:ASN:HB3	17:q:4:ILE:HD13	1.97	0.47
16:p:112:ARG:HG3	17:q:47:VAL:HG21	1.95	0.47
18:r:76:VAL:HA	18:r:102:HIS:O	2.14	0.47
1:A:176:G:C6	1:A:177:G:N7	2.83	0.47
1:A:606:G:P	16:P:10:ARG:NH1	2.87	0.47
1:A:982:U:H2'	1:A:983:G:C8	2.50	0.47
1:A:1014:U:H2'	1:A:1015:C:C6	2.49	0.47
1:A:1016:C:H3'	1:A:1017:G:C8	2.49	0.47
1:A:1164:C:H2'	1:A:1165:C:C6	2.49	0.47
1:A:1323:G:H2'	1:A:1324:A:H8	1.77	0.47
1:A:1870:G:C2	1:A:1871:G:C8	3.03	0.47
1:A:2165:C:N4	1:A:2170:G:O6	2.44	0.47
1:A:2188:G:N7	1:A:2189:U:N3	2.63	0.47
1:A:2319:G:H4'	1:A:2320:G:H5'	1.97	0.47
4:D:117:MET:O	4:D:121:ASN:HA	2.15	0.47
6:F:62:LEU:HA	26:Z:27:THR:HG21	1.97	0.47
7:G:7:LEU:HG	7:G:69:ARG:HH12	1.80	0.47
9:I:15:LEU:HB2	9:I:135:PRO:HB2	1.96	0.47
15:O:118:ARG:HH12	15:O:125:ARG:HH22	1.61	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
19:S:55:ASN:HB2	19:S:80:ILE:HB	1.96	0.47
21:U:97:GLU:HB3	21:U:125:LEU:HD11	1.96	0.47
1:a:228:U:H2'	1:a:229:G:O4'	2.15	0.47
1:a:325:G:C4	1:a:326:C:C5	3.03	0.47
1:a:743:G:H2'	1:a:744:C:C6	2.49	0.47
1:a:969:C:H2'	1:a:970:C:H6	1.80	0.47
1:a:1433:C:H2'	1:a:1434:G:C8	2.50	0.47
1:a:1511:C:H2'	1:a:1512:G:C8	2.50	0.47
1:a:1712:A:H5''	10:j:66:LYS:HG2	1.97	0.47
1:a:1745:A:OP1	1:a:1747:A:O2'	2.31	0.47
1:a:1945:U:H2'	1:a:1946:C:C6	2.50	0.47
1:a:2127:C:H2'	1:a:2128:G:C8	2.50	0.47
1:a:2467:G:C4	1:a:2468:C:C5	3.03	0.47
1:a:2555:G:H2'	1:a:2556:G:H8	1.80	0.47
2:b:37:C:O2	14:n:95:HIS:NE2	2.42	0.47
16:p:77:SER:O	16:p:81:HIS:HB2	2.15	0.47
1:A:420:C:H2'	1:A:421:A:H8	1.80	0.47
1:A:600:G:H2'	1:A:601:A:C8	2.50	0.47
1:A:740:C:N4	1:A:816:G:O6	2.25	0.47
1:A:818:G:P	29:2:10:ARG:HD3	2.55	0.47
1:A:1000:C:H5''	12:L:87:LYS:HE2	1.96	0.47
1:A:1821:C:H4'	1:A:1822:A:OP1	2.15	0.47
1:A:1834:A:H4'	3:C:259:THR:HG23	1.97	0.47
1:A:2285:A:H2'	1:A:2286:A:H8	1.79	0.47
1:A:2288:G:H2'	1:A:2289:G:C8	2.47	0.47
1:A:2319:G:H4'	1:A:2320:G:C5'	2.45	0.47
1:A:2771:A:H2'	1:A:2772:G:O4'	2.15	0.47
1:A:2828:G:H2'	1:A:2829:G:H8	1.80	0.47
1:A:2899:C:H2'	1:A:2900:G:O4'	2.15	0.47
4:D:126:PRO:HD2	4:D:134:ILE:HD13	1.96	0.47
6:F:119:GLY:O	6:F:181:ARG:NH2	2.47	0.47
18:R:18:ARG:HG3	18:R:76:VAL:HB	1.96	0.47
19:S:2:LYS:HD3	19:S:38:GLU:OE2	2.15	0.47
29:2:34:ARG:HH12	29:2:42:LEU:CA	2.22	0.47
1:a:25:U:H2'	1:a:26:G:O4'	2.14	0.47
1:a:197:C:H2'	1:a:198:C:H6	1.80	0.47
1:a:330:U:H2'	1:a:331:G:C8	2.50	0.47
1:a:495:G:O6	29:7:39:ARG:NH1	2.48	0.47
1:a:512:C:N4	1:a:519:G:H1	2.12	0.47
1:a:713:G:C4'	11:k:49:ARG:HH12	2.28	0.47
1:a:812:G:OP2	1:a:812:G:H8	1.98	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1094:A:C5	1:a:1095:C:C5	3.03	0.47
1:a:1319:U:H4'	1:a:1321:A:OP2	2.14	0.47
1:a:2076:A:C2	27:5:8:LYS:HB2	2.50	0.47
7:g:61:HIS:HA	7:g:64:LEU:HB2	1.97	0.47
21:u:40:ASP:OD1	21:u:43:GLU:N	2.45	0.47
1:A:126:C:H2'	1:A:127:C:H6	1.77	0.47
1:A:560:C:H42	1:A:581:G:H1	1.63	0.47
1:A:561:A:H2'	1:A:562:C:H6	1.76	0.47
1:A:739:C:H2'	1:A:740:C:C6	2.50	0.47
1:A:1174:A:N3	1:A:2528:G:O2'	2.36	0.47
1:A:1355:G:H4'	29:2:7:PRO:HG2	1.96	0.47
1:A:1917:C:H2'	1:A:1918:G:C8	2.49	0.47
1:A:2231:G:H2'	1:A:2232:G:C8	2.49	0.47
1:A:2253:A:H2'	1:A:2254:G:H8	1.78	0.47
1:A:2590:G:OP2	1:A:2590:G:H4'	2.14	0.47
3:C:17:THR:OG1	3:C:205:VAL:N	2.46	0.47
7:G:163:TYR:HD2	7:G:167:GLU:HB3	1.80	0.47
11:K:128:HIS:CE1	11:K:148:LEU:HD13	2.50	0.47
1:a:70:A:H3'	1:a:70:A:OP2	2.15	0.47
1:a:296:U:H2'	1:a:297:C:C6	2.50	0.47
1:a:767:C:H2'	1:a:768:C:C6	2.50	0.47
1:a:1831:C:OP2	3:c:183:ARG:NH2	2.48	0.47
1:a:1849:U:N3	3:c:154:LYS:HB3	2.29	0.47
1:a:2097:U:OP1	3:c:244:ARG:NH2	2.48	0.47
1:a:2544:G:H2'	1:a:2545:A:H8	1.80	0.47
1:a:2703:C:H2'	1:a:2704:C:C6	2.49	0.47
21:u:48:PHE:HE1	21:u:71:VAL:HG21	1.80	0.47
1:A:110:U:H2'	1:A:111:G:O4'	2.16	0.46
1:A:207:A:H3'	1:A:208:G:H8	1.80	0.46
1:A:816:G:H2'	1:A:817:G:C8	2.50	0.46
1:A:992:G:H2'	1:A:993:G:H8	1.78	0.46
1:A:1212:C:H2'	1:A:1213:U:C6	2.50	0.46
1:A:1400:A:C8	1:A:1401:G:C8	3.03	0.46
1:A:1454:C:H2'	1:A:1455:C:H6	1.79	0.46
1:A:1834:A:H3'	1:A:1835:C:C6	2.50	0.46
1:A:2659:U:H2'	1:A:2660:C:H6	1.79	0.46
1:A:2729:U:H2'	1:A:2730:G:H8	1.80	0.46
5:E:102:PRO:HB2	5:E:105:VAL:HG23	1.97	0.46
5:E:152:GLU:HB3	5:E:190:GLU:HB2	1.97	0.46
26:Z:40:HIS:CE1	26:Z:42:PHE:HB3	2.50	0.46
1:a:667:G:N2	1:a:670:C:OP2	2.46	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1857:G:H4'	3:c:242:ARG:HH11	1.80	0.46
1:a:2271:G:C8	1:a:2439:C:C4	3.03	0.46
1:a:2683:A:H2'	1:a:2684:G:C8	2.50	0.46
6:f:35:GLU:O	6:f:95:ARG:NH1	2.48	0.46
14:n:34:HIS:CG	14:n:54:LEU:HB2	2.50	0.46
19:s:10:ALA:HA	24:x:37:PHE:CE1	2.50	0.46
1:A:202:A:H2'	1:A:203:G:C8	2.50	0.46
1:A:553:A:OP2	9:I:114:ARG:NH1	2.48	0.46
1:A:704:U:H2'	1:A:705:C:C6	2.51	0.46
1:A:830:A:C8	1:A:832:G:H1'	2.50	0.46
1:A:1490:G:H2'	1:A:1492:C:C4	2.50	0.46
1:A:1676:G:H2'	1:A:1677:C:C6	2.50	0.46
1:A:1676:G:H2'	1:A:1677:C:H6	1.80	0.46
1:A:2143:G:H2'	1:A:2144:U:C6	2.50	0.46
4:D:61:ARG:NH1	34:D:402:HOH:O	2.47	0.46
12:L:52:VAL:HG22	21:U:183:LEU:HD21	1.96	0.46
12:L:52:VAL:HG13	21:U:183:LEU:HD11	1.97	0.46
21:U:8:TYR:HB2	21:U:38:TYR:CE1	2.50	0.46
1:a:136:G:C8	1:a:138:G:OP2	2.69	0.46
1:a:470:C:N4	34:a:4919:HOH:O	2.48	0.46
1:a:657:A:H2'	1:a:658:A:C8	2.50	0.46
1:a:725:C:H2'	1:a:726:C:O4'	2.15	0.46
1:a:741:U:H3	1:a:815:G:H1	1.61	0.46
1:a:1073:A:H2'	1:a:1074:A:C8	2.50	0.46
1:a:1164:C:H2'	1:a:1165:C:C6	2.50	0.46
1:a:1443:U:OP1	1:a:1445:C:N4	2.48	0.46
1:a:1619:A:C4	1:a:1620:G:C8	3.04	0.46
1:a:1834:A:H61	1:a:1845:G:C2'	2.28	0.46
1:a:2001:C:H5'	34:a:6361:HOH:O	2.15	0.46
1:a:2021:C:P	4:d:118:LYS:HZ3	2.37	0.46
1:a:2030:C:H2'	1:a:2031:G:C8	2.50	0.46
1:a:2037:A:H3'	1:a:2038:U:C6	2.50	0.46
1:a:2182:G:H2'	1:a:2183:C:C6	2.50	0.46
1:a:2426:G:C2	1:a:2427:G:C8	3.02	0.46
1:a:2448:G:H2'	1:a:2449:U:C6	2.50	0.46
2:b:76:G:H2'	2:b:77:U:O4'	2.15	0.46
3:c:168:ARG:HG2	3:c:173:VAL:HG12	1.97	0.46
13:m:12:ARG:HB3	13:m:16:HIS:HB3	1.96	0.46
14:n:10:ARG:NE	14:n:91:PRO:O	2.29	0.46
1:A:25:U:H5'	18:R:78:GLU:O	2.16	0.46
1:A:55:A:H2'	1:A:56:C:C6	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:265:U:H2'	1:A:266:C:C6	2.50	0.46
1:A:656:A:N3	1:A:2427:G:O2'	2.47	0.46
1:A:1032:C:O2	1:A:1047:A:O2'	2.33	0.46
3:C:77:ALA:C	3:C:116:GLN:HG3	2.40	0.46
8:H:3:VAL:HG12	8:H:38:LEU:HA	1.97	0.46
15:O:105:LEU:HB3	15:O:109:GLU:HB2	1.97	0.46
21:U:44:PHE:O	21:U:48:PHE:HB3	2.14	0.46
1:a:477:C:C5'	5:e:52:LYS:HZ3	2.28	0.46
1:a:588:C:H2'	1:a:589:U:H6	1.80	0.46
1:a:786:G:N2	1:a:787:U:O4	2.49	0.46
1:a:1198:C:H2'	1:a:1199:C:C6	2.50	0.46
1:a:1280:U:H2'	1:a:1281:G:O4'	2.16	0.46
1:a:1547:C:H2'	1:a:1548:C:C6	2.51	0.46
1:a:1644:C:O3'	19:s:35:THR:OG1	2.32	0.46
1:a:1857:G:OP2	3:c:222:ARG:HB2	2.16	0.46
1:a:1864:U:O2'	1:a:1991:A:N1	2.36	0.46
1:a:2598:C:H2'	1:a:2599:A:C8	2.50	0.46
1:a:2659:U:H2'	1:a:2660:C:C6	2.51	0.46
1:a:2697:G:OP2	15:o:51:ARG:NH1	2.48	0.46
2:b:92:C:H2'	2:b:93:G:C8	2.47	0.46
3:c:112:GLN:NE2	34:c:401:HOH:O	2.37	0.46
6:f:102:PHE:O	6:f:106:LEU:CB	2.63	0.46
6:f:143:GLU:HB3	26:z:28:LYS:HZ3	1.80	0.46
7:g:25:LYS:HE2	7:g:32:GLU:OE2	2.14	0.46
1:A:77:A:H2'	1:A:78:G:H8	1.80	0.46
1:A:574:G:O2'	1:A:1265:A:N3	2.45	0.46
1:A:641:G:O2'	5:E:179:GLU:O	2.32	0.46
1:A:676:G:H4'	30:3:18:ALA:HB3	1.97	0.46
1:A:1223:C:H2'	1:A:1224:C:C6	2.50	0.46
1:A:1834:A:H2	1:A:1854:G:O4'	1.99	0.46
1:A:2611:G:H2'	1:A:2612:A:H8	1.79	0.46
1:A:2623:U:H3'	1:A:2623:U:OP2	2.16	0.46
2:B:45:A:C4	2:B:46:A:C8	3.03	0.46
2:B:91:C:OP1	12:L:17:LEU:N	2.48	0.46
5:E:110:LEU:HA	5:E:183:VAL:HG12	1.97	0.46
6:F:73:ALA:HB1	6:F:82:LEU:HD11	1.97	0.46
13:M:2:ARG:HG2	13:M:5:LYS:HB2	1.97	0.46
16:P:6:THR:HG21	16:P:10:ARG:HH21	1.81	0.46
28:13:32:ASN:OD1	28:13:32:ASN:N	2.46	0.46
1:a:66:U:C2	1:a:67:G:C8	3.03	0.46
1:a:171:A:C2	1:a:460:C:H1'	2.50	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:336:G:H4'	1:a:355:A:C4	2.50	0.46
1:a:559:U:O2'	16:p:46:ALA:HA	2.16	0.46
1:a:655:G:N2	1:a:657:A:H3'	2.31	0.46
1:a:1239:A:OP2	11:k:14:LYS:NZ	2.41	0.46
1:a:1358:U:H5'	1:a:1359:U:C5	2.49	0.46
1:a:2264:G:H2'	1:a:2265:G:H8	1.80	0.46
1:a:2546:A:H2'	1:a:2547:G:O4'	2.14	0.46
1:a:2651:A:H2'	1:a:2652:G:O4'	2.16	0.46
9:i:17:ASP:O	9:i:21:LYS:NZ	2.33	0.46
12:l:51:ARG:HH22	21:u:183:LEU:HD22	1.80	0.46
14:n:62:LYS:HA	14:n:65:VAL:HB	1.98	0.46
16:p:59:ARG:HB2	16:p:59:ARG:HH11	1.80	0.46
20:t:5:MET:HE3	20:t:5:MET:HB2	1.79	0.46
23:w:6:GLU:OE1	23:w:91:LYS:NZ	2.26	0.46
1:A:327:U:H2'	1:A:328:G:C8	2.51	0.46
1:A:793:A:HO2'	1:A:2623:U:HO2'	1.44	0.46
1:A:811:A:H5'	3:C:210:GLY:HA2	1.97	0.46
1:A:1021:G:H2'	1:A:1022:C:C6	2.50	0.46
1:A:1082:G:C2	1:A:1166:G:C6	3.04	0.46
1:A:1197:G:H2'	1:A:1198:C:C6	2.51	0.46
1:A:2218:C:H2'	1:A:2219:U:C6	2.50	0.46
9:I:41:ASP:OD1	9:I:41:ASP:N	2.44	0.46
10:J:17:ARG:HA	10:J:17:ARG:NH1	2.30	0.46
21:U:31:ARG:H	21:U:31:ARG:HG2	1.45	0.46
1:a:278:G:H2'	1:a:279:G:H8	1.81	0.46
1:a:562:C:H4'	9:i:5:VAL:HG11	1.96	0.46
1:a:635:C:H2'	1:a:636:G:H8	1.80	0.46
1:a:905:U:O3'	1:a:2280:A:O2'	2.33	0.46
1:a:1802:C:H2'	1:a:1803:G:H8	1.80	0.46
1:a:2118:U:O2	1:a:2215:G:N2	2.41	0.46
1:a:2341:G:H2'	1:a:2342:G:C8	2.50	0.46
1:a:2347:A:H1'	1:a:2348:A:H2'	1.97	0.46
1:a:2366:G:H21	22:v:36:ILE:CD1	2.28	0.46
1:a:2661:U:H2'	1:a:2662:U:C6	2.51	0.46
1:a:2890:C:H4'	13:m:90:ARG:NH1	2.30	0.46
2:b:11:C:OP2	2:b:12:C:C4	2.69	0.46
2:b:22:U:H2'	2:b:23:G:C8	2.50	0.46
12:l:57:HIS:NE2	12:l:116:GLU:HG2	2.29	0.46
15:o:50:ILE:HG21	15:o:64:ARG:HD2	1.98	0.46
17:q:26:ASP:OD1	17:q:26:ASP:N	2.48	0.46
20:t:79:CYS:HB2	20:t:81:LYS:HZ2	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:418:G:H5'	1:A:439:A:H4'	1.96	0.46
1:A:441:C:H2'	1:A:442:A:C8	2.51	0.46
1:A:502:G:H1'	1:A:506:A:N6	2.31	0.46
1:A:1420:G:H2'	1:A:1421:C:H6	1.80	0.46
1:A:1470:G:H2'	1:A:1471:G:O4'	2.15	0.46
1:A:1797:U:H2'	1:A:1798:C:C6	2.50	0.46
1:A:2547:G:C2	1:A:2548:G:C8	3.02	0.46
1:A:2720:G:H4'	13:M:22:ARG:HH22	1.80	0.46
6:F:27:ASN:HB3	6:F:30:GLU:HB2	1.98	0.46
6:F:53:LEU:HD11	6:F:90:LEU:HG	1.96	0.46
9:I:38:HIS:NE2	9:I:50:ASP:OD2	2.48	0.46
12:L:110:THR:OG1	12:L:113:GLN:OE1	2.22	0.46
12:L:137:TYR:HE2	21:U:49:ARG:NH1	2.13	0.46
1:a:199:C:H4'	1:a:1413:A:H1'	1.97	0.46
1:a:1602:G:H2'	1:a:1603:C:H6	1.80	0.46
1:a:2560:G:C6	1:a:2573:A:N1	2.84	0.46
1:a:2564:2MU:C2'	1:a:2566:U:OP2	2.61	0.46
4:d:54:GLN:HB2	4:d:76:ARG:HG3	1.97	0.46
6:f:119:GLY:HA3	6:f:181:ARG:HB3	1.98	0.46
9:i:74:ARG:HH12	9:i:85:ILE:CD1	2.20	0.46
17:q:5:VAL:HG12	17:q:37:VAL:HG22	1.96	0.46
18:r:29:LEU:O	18:r:33:ARG:HG2	2.15	0.46
1:A:84:G:OP2	20:T:9:LYS:HG2	2.16	0.46
1:A:184:A:H2'	1:A:187:C:H41	1.80	0.46
1:A:486:A:H2'	1:A:487:C:O4'	2.15	0.46
1:A:1462:G:O2'	1:A:1463:C:OP2	2.29	0.46
1:A:1768:U:O2'	1:A:1769:G:H8	1.98	0.46
1:A:2538:G:H2'	1:A:2539:C:H6	1.80	0.46
5:E:127:GLU:HA	5:E:196:LEU:HG	1.97	0.46
8:H:1:MET:HE1	23:W:68:PRO:HB3	1.98	0.46
17:Q:39:LEU:HD12	17:Q:47:VAL:HA	1.97	0.46
1:a:381:A:H2'	1:a:382:U:C6	2.51	0.46
1:a:451:G:H2'	1:a:452:G:O4'	2.16	0.46
1:a:505:A:N1	1:a:531:G:N2	2.63	0.46
1:a:672:G:N3	1:a:2362:C:O2'	2.49	0.46
1:a:1126:C:H2'	1:a:1127:U:C6	2.50	0.46
1:a:1749:G:H2'	1:a:1750:G:C8	2.51	0.46
1:a:1758:C:H2'	1:a:1759:C:H6	1.80	0.46
1:a:1980:C:C2	1:a:1981:G:C8	3.04	0.46
1:a:2242:G:H4'	23:w:43:TYR:HB2	1.98	0.46
1:a:2315:G:H2'	1:a:2316:G:H8	1.81	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
4:d:21:VAL:HG23	4:d:185:LYS:HD3	1.97	0.46
20:t:8:LYS:HG3	20:t:11:ASP:OD2	2.15	0.46
20:t:9:LYS:HA	20:t:10:GLY:HA2	1.56	0.46
1:A:180:A:H2'	1:A:181:C:C6	2.50	0.46
1:A:441:C:H1'	1:A:1895:U:H1'	1.97	0.46
1:A:587:C:H5''	17:Q:75:PHE:CZ	2.48	0.46
1:A:1401:G:H2'	1:A:1402:G:C8	2.49	0.46
1:A:1710:C:O2'	1:A:2698:G:H4'	2.16	0.46
1:A:2311:G:H2'	1:A:2312:G:H8	1.81	0.46
1:A:2492:C:H5'	1:A:2493:G:OP2	2.15	0.46
19:S:27:THR:OG1	19:S:80:ILE:HG12	2.16	0.46
19:S:94:GLY:HA3	19:S:95:LEU:HA	1.65	0.46
23:W:45:ASN:OD1	23:W:47:GLN:NE2	2.47	0.46
1:a:265:U:H2'	1:a:266:C:C6	2.51	0.46
1:a:888:A:H2'	1:a:889:G:C8	2.51	0.46
1:a:1024:G:H3'	1:a:1025:G:H8	1.81	0.46
1:a:1382:A:OP2	19:s:64:LYS:HD2	2.16	0.46
1:a:1451:U:H2'	1:a:1452:U:C6	2.50	0.46
1:a:1639:G:H2'	1:a:1640:G:H8	1.81	0.46
1:a:1734:G:H8	1:a:1734:G:O5'	1.99	0.46
1:a:2603:C:H2'	1:a:2604:G:C8	2.51	0.46
1:a:2700:U:O2'	1:a:2734:A:N6	2.49	0.46
2:b:112:U:H2'	2:b:113:G:H8	1.80	0.46
5:e:124:LEU:HB3	5:e:193:VAL:HG23	1.97	0.46
6:f:64:THR:HB	6:f:94:LEU:HD21	1.98	0.46
10:j:101:PRO:HG3	15:o:67:SER:HB3	1.96	0.46
15:o:42:ILE:HG12	15:o:84:GLN:HG3	1.96	0.46
1:A:980:C:H2'	1:A:981:C:C6	2.51	0.46
1:A:1008:U:C2	1:A:1009:C:C5	3.04	0.46
1:A:1961:5MU:O2	1:A:2603:C:O2'	2.17	0.46
1:A:2129:C:H5'	1:A:2130:C:OP2	2.16	0.46
1:A:2299:A:O2'	1:A:2301:G:N7	2.39	0.46
1:A:2862:G:H2'	1:A:2863:C:C6	2.51	0.46
3:C:130:ALA:HA	3:C:192:THR:HA	1.98	0.46
3:C:142:VAL:HG23	3:C:193:VAL:HA	1.97	0.46
10:J:120:GLU:HB2	15:O:68:TYR:CE1	2.51	0.46
15:O:31:SER:HG	15:O:85:LYS:H	1.61	0.46
15:O:118:ARG:HH22	15:O:121:ILE:HG21	1.81	0.46
23:W:12:PRO:HA	23:W:42:GLN:O	2.15	0.46
1:a:136:G:N3	19:s:41:ASN:ND2	2.63	0.46
1:a:588:C:OP1	17:q:82:ARG:NH2	2.47	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1519:A:H2'	1:a:1520:G:O4'	2.15	0.46
1:a:1550:C:H2'	1:a:1551:C:C6	2.51	0.46
1:a:1857:G:OP1	3:c:224:ALA:N	2.45	0.46
1:a:2317:A:H5''	6:f:134:GLY:HA3	1.98	0.46
1:a:2367:C:H1'	22:v:39:ARG:HH21	1.80	0.46
1:a:2564:2MU:O2'	1:a:2566:U:H5''	2.15	0.46
7:g:149:ARG:NH1	7:g:167:GLU:OE2	2.49	0.46
14:n:40:ILE:HA	14:n:47:THR:HA	1.98	0.46
25:y:8:LEU:HA	25:y:54:VAL:HG23	1.98	0.46
1:A:199:C:H2'	1:A:200:A:C8	2.50	0.46
1:A:267:C:O2'	1:A:268:G:H5'	2.16	0.46
1:A:556:C:H4'	1:A:557:A:H5''	1.98	0.46
1:A:981:C:H2'	1:A:982:U:C6	2.51	0.46
1:A:1734:G:H2'	1:A:1735:U:C6	2.51	0.46
1:A:1899:A:C5	1:A:1900:G:H1'	2.51	0.46
1:A:1945:U:C2	1:A:1946:C:C5	3.03	0.46
1:A:2047:C:H2'	1:A:2048:C:H6	1.81	0.46
1:A:2160:C:N3	1:A:2161:C:N4	2.63	0.46
1:A:2193:A:H1'	1:A:2194:U:C6	2.51	0.46
1:A:2222:C:H2'	1:A:2223:C:C6	2.51	0.46
1:A:2459:G:O2'	34:A:4460:HOH:O	2.21	0.46
1:A:2814:C:H2'	1:A:2815:C:C6	2.50	0.46
2:B:50:G:OP1	14:N:63:THR:OG1	2.31	0.46
3:C:122:ASP:OD1	3:C:122:ASP:N	2.47	0.46
3:C:134:ARG:HA	3:C:168:ARG:HD3	1.98	0.46
16:P:24:TYR:H	16:P:29:SER:HB3	1.81	0.46
19:S:27:THR:HA	19:S:79:ALA:O	2.16	0.46
29:2:3:ARG:HD3	29:2:3:ARG:HA	1.79	0.46
1:a:26:G:H1'	1:a:540:A:N6	2.30	0.46
1:a:1014:U:H2'	1:a:1015:C:O4'	2.16	0.46
1:a:1214:G:H2'	1:a:1215:G:H8	1.80	0.46
1:a:1385:G:P	19:s:78:LYS:NZ	2.88	0.46
1:a:1456:G:H2'	1:a:1457:C:H6	1.81	0.46
1:a:1602:G:H2'	1:a:1603:C:C6	2.51	0.46
1:a:1983:C:H2'	1:a:1984:5MC:O4'	2.15	0.46
1:a:2305:C:H2'	1:a:2306:C:H6	1.80	0.46
1:a:2601:A:H2	1:a:2617:PSU:HN3	1.64	0.46
1:a:2847:G:N2	1:a:2892:A:N3	2.63	0.46
2:b:33:G:OP1	6:f:2:PRO:HG2	2.15	0.46
3:c:69:ARG:NH1	3:c:119:ALA:HB2	2.31	0.46
22:v:38:VAL:HB	22:v:59:LEU:HB2	1.98	0.46

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:302:A:H2'	1:A:303:C:C6	2.51	0.45
1:A:584:G:O2'	16:P:45:TYR:OH	2.13	0.45
1:A:717:A:H5''	11:K:42:SER:HB2	1.96	0.45
1:A:731:G:OP1	29:2:21:ARG:NH1	2.49	0.45
1:A:1040:C:H3'	16:P:54:LYS:HZ1	1.80	0.45
1:A:1729:G:C2	1:A:1788:U:H1'	2.51	0.45
1:A:1860:A:C8	1:A:1861:C:C5	3.03	0.45
1:A:1881:G:C6	1:A:1915:C:N3	2.84	0.45
1:A:1988:A:N6	34:A:4576:HOH:O	2.49	0.45
1:A:2036:A:H5'	18:R:94:ASP:OD2	2.17	0.45
1:A:2247:G:H5'	34:A:4474:HOH:O	2.16	0.45
1:A:2613:C:N4	1:A:2615:G:O6	2.49	0.45
1:A:2701:U:P	1:A:2732:G:H1	2.39	0.45
4:D:12:THR:HG21	15:O:11:GLU:OE2	2.16	0.45
7:G:16:SER:OG	7:G:27:LYS:HB2	2.15	0.45
17:Q:66:ARG:HH21	17:Q:88:ARG:HB2	1.80	0.45
20:T:17:SER:OG	20:T:18:GLY:N	2.49	0.45
22:V:18:ALA:O	22:V:20:ARG:NH2	2.49	0.45
23:W:18:ILE:HG23	23:W:34:THR:HG23	1.98	0.45
1:a:11:G:O2'	1:a:2813:G:O3'	2.34	0.45
1:a:18:C:O2	1:a:577:U:H5''	2.17	0.45
1:a:116:A:H2'	1:a:118:U:O4	2.16	0.45
1:a:265:U:H2'	1:a:266:C:H6	1.81	0.45
1:a:408:G:H2'	1:a:409:G:H8	1.81	0.45
1:a:425:G:H2'	1:a:426:G:C8	2.51	0.45
1:a:558:G:N2	16:p:49:HIS:CE1	2.85	0.45
1:a:561:A:H2'	1:a:562:C:H6	1.80	0.45
1:a:711:C:H4'	1:a:986:A:P	2.56	0.45
1:a:743:G:H2'	1:a:744:C:H6	1.80	0.45
1:a:864:C:H2'	1:a:865:G:O4'	2.16	0.45
1:a:1108:G:C4	1:a:1109:G:C8	3.04	0.45
1:a:1399:A:H2'	1:a:1400:A:C8	2.51	0.45
1:a:2122:G:C6	1:a:2212:G:C6	3.04	0.45
1:a:2755:C:N3	1:a:2775:G:N2	2.48	0.45
1:a:2868:C:H2'	1:a:2869:G:O4'	2.15	0.45
2:b:73:A:C8	2:b:105:A:C6	3.04	0.45
4:d:134:ILE:HA	4:d:137:HIS:HD2	1.80	0.45
5:e:64:ILE:HD11	5:e:75:HIS:HB2	1.98	0.45
9:i:75:TYR:CE2	9:i:77:GLY:HA2	2.51	0.45
20:t:13:VAL:HB	20:t:72:VAL:HG22	1.96	0.45
28:6:34:LEU:O	28:6:50:ARG:HA	2.16	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:351:G:H1	1:A:359:C:H42	1.64	0.45
1:A:374:U:H2'	1:A:375:G:H8	1.81	0.45
1:A:477:C:N4	1:A:480:A:OP2	2.43	0.45
1:A:922:G:H2'	1:A:923:C:C6	2.51	0.45
1:A:1393:G:C2	1:A:1394:G:N7	2.84	0.45
1:A:1427:G:H2'	1:A:1428:G:H8	1.80	0.45
1:A:1708:G:H2'	1:A:1709:C:C6	2.51	0.45
1:A:1882:U:H2'	1:A:1883:C:O4'	2.17	0.45
4:D:144:ARG:HD3	4:D:144:ARG:HA	1.58	0.45
5:E:23:ASP:OD1	5:E:23:ASP:N	2.48	0.45
7:G:52:VAL:O	7:G:65:HIS:NE2	2.29	0.45
12:L:21:THR:HG21	12:L:101:ARG:HB2	1.98	0.45
12:L:38:GLU:HB2	12:L:127:ILE:HB	1.96	0.45
13:M:55:ALA:HA	13:M:80:PHE:CE1	2.51	0.45
1:a:113:C:H2'	1:a:114:C:C6	2.50	0.45
1:a:176:G:H2'	1:a:177:G:O4'	2.16	0.45
1:a:242:C:P	30:8:5:LYS:HZ2	2.36	0.45
1:a:610:C:OP2	1:a:610:C:H6	1.98	0.45
1:a:1469:G:H2'	1:a:1470:G:H8	1.81	0.45
1:a:1616:A:H2'	1:a:1617:A:C8	2.52	0.45
1:a:2238:C:O2'	3:c:263:ARG:NH1	2.48	0.45
1:a:2388:A:H2'	1:a:2389:A:O4'	2.16	0.45
1:a:2639:G:O2'	1:a:2794:A:N1	2.47	0.45
1:a:2804:C:H2'	1:a:2805:G:C8	2.50	0.45
1:a:2827:G:H2'	1:a:2828:G:O4'	2.17	0.45
5:e:31:HIS:NE2	5:e:35:GLU:OE2	2.49	0.45
5:e:130:ALA:C	5:e:132:VAL:H	2.25	0.45
6:f:34:LEU:HD23	6:f:161:THR:HG23	1.98	0.45
9:i:7:LYS:HZ2	9:i:7:LYS:HB3	1.81	0.45
20:t:86:ARG:HH11	20:t:100:ALA:CA	2.29	0.45
23:w:3:LYS:HA	23:w:3:LYS:HD2	1.77	0.45
1:A:407:U:H2'	1:A:408:G:C8	2.51	0.45
1:A:471:C:H2'	1:A:472:G:O4'	2.17	0.45
1:A:1036:A:C6	1:A:1231:G:H1'	2.50	0.45
1:A:1493:C:O2	1:A:1513:G:N2	2.50	0.45
1:A:1716:A:O3'	1:A:2561:G:H5''	2.16	0.45
1:A:2057:G:H4'	1:A:2058:C:OP2	2.17	0.45
1:A:2804:C:H2'	1:A:2805:G:H8	1.80	0.45
5:E:34:TRP:CD1	11:K:8:PRO:HD3	2.51	0.45
12:L:16:ARG:HG2	12:L:18:LYS:HG3	1.98	0.45
18:R:43:GLY:O	18:R:47:VAL:HG23	2.17	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
18:R:86:LEU:HD22	18:R:96:ILE:HD11	1.97	0.45
23:W:74:VAL:O	23:W:78:LYS:NZ	2.49	0.45
1:a:215:G:H5'	1:a:246:A:H4'	1.97	0.45
1:a:312:C:H2'	1:a:313:A:H8	1.81	0.45
1:a:390:G:H2'	1:a:391:G:C8	2.52	0.45
1:a:668:A:N1	1:a:2381:A:O2'	2.47	0.45
1:a:798:A:OP2	18:r:90:ARG:N	2.41	0.45
1:a:1185:C:O3'	9:i:25:ARG:NH1	2.48	0.45
1:a:1232:G:OP1	17:q:81:TYR:OH	2.30	0.45
1:a:1398:U:H1'	1:a:1617:A:C2	2.51	0.45
1:a:1612:C:O3'	1:a:1613:A:H8	1.98	0.45
1:a:1802:C:H2'	1:a:1803:G:C8	2.51	0.45
1:a:1831:C:OP1	3:c:264:LYS:NZ	2.27	0.45
1:a:2037:A:H3'	1:a:2038:U:H6	1.82	0.45
1:a:2087:C:H5'	1:a:2264:G:H1'	1.98	0.45
1:a:2867:G:C4	1:a:2869:G:OP2	2.70	0.45
3:c:134:ARG:HA	3:c:168:ARG:HE	1.80	0.45
11:k:106:LEU:HD11	11:k:112:LEU:HG	1.99	0.45
1:A:24:G:C5	1:A:25:U:C4	3.05	0.45
1:A:245:A:H2'	1:A:246:A:C8	2.52	0.45
1:A:603:C:O2	1:A:1306:G:N2	2.28	0.45
1:A:707:G:C3'	5:E:38:ARG:HH12	2.27	0.45
1:A:1361:C:C2	1:A:1362:U:C5	3.04	0.45
1:A:1490:G:H2'	1:A:1492:C:C5	2.51	0.45
1:A:1904:C:H2'	1:A:1905:G:O4'	2.16	0.45
1:A:2000:A:H2'	1:A:2001:C:O4'	2.17	0.45
1:A:2032:G:H2'	1:A:2033:U:C6	2.52	0.45
1:A:2238:C:C2	1:A:2239:A:C8	3.05	0.45
1:A:2464:C:H2'	1:A:2465:A:C8	2.47	0.45
1:A:2554:A:H4'	1:A:2555:G:H8	1.82	0.45
1:A:2660:C:H2'	1:A:2661:U:H6	1.79	0.45
1:A:2835:C:H2'	1:A:2836:A:O4'	2.17	0.45
2:B:29:A:C2	2:B:56:G:C2	3.04	0.45
4:D:34:VAL:HG21	4:D:78:LEU:HG	1.97	0.45
10:J:87:ILE:HA	10:J:93:PRO:HA	1.98	0.45
17:Q:30:GLY:H	17:Q:61:VAL:HG13	1.81	0.45
21:U:19:ARG:HH11	21:U:84:GLU:CB	2.30	0.45
28:13:26:ASN:O	28:13:30:THR:N	2.42	0.45
1:a:23:G:OP1	1:a:529:U:N3	2.31	0.45
1:a:233:A:OP1	30:8:11:LYS:NZ	2.43	0.45
1:a:562:C:O2	9:i:45:ASN:ND2	2.49	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:873:U:O2'	11:k:55:ARG:N	2.49	0.45
1:a:1306:G:H2'	1:a:1307:C:O4'	2.17	0.45
1:a:1846:A:P	3:c:54:ARG:HH22	2.38	0.45
1:a:2787:C:OP2	4:d:164:ARG:HD3	2.15	0.45
5:e:122:LYS:HD2	5:e:191:ARG:HG2	1.98	0.45
13:m:96:ARG:NH1	27:5:55:ARG:HH22	2.14	0.45
15:o:90:GLN:NE2	34:o:302:HOH:O	2.50	0.45
1:A:354:A:H2	1:A:1255:A:C8	2.35	0.45
1:A:739:C:O2'	1:A:1400:A:O2'	2.32	0.45
1:A:933:C:H2'	1:A:934:A:H5''	1.97	0.45
1:A:1046:A:H2'	1:A:1047:A:C8	2.52	0.45
1:A:1116:A:C8	1:A:1143:U:H4'	2.52	0.45
1:A:1798:C:H2'	1:A:1799:U:C6	2.51	0.45
1:A:1858:C:N4	34:A:4574:HOH:O	2.49	0.45
1:A:2085:C:H2'	1:A:2086:C:C6	2.52	0.45
1:A:2134:G:C2	1:A:2135:U:C6	3.05	0.45
1:A:2224:C:H2'	1:A:2225:U:C6	2.52	0.45
10:J:98:VAL:HG22	10:J:117:LEU:HB2	1.99	0.45
1:a:603:C:H2'	1:a:604:C:H6	1.80	0.45
1:a:618:C:HO2'	1:a:983:G:HO2'	1.64	0.45
1:a:747:G:H2'	1:a:748:G:H8	1.80	0.45
1:a:928:G:C4	1:a:929:G:C8	3.05	0.45
1:a:956:A:OP2	1:a:958:C:N4	2.45	0.45
1:a:1177:G:C2	9:i:75:TYR:HB2	2.52	0.45
1:a:1827:U:O2'	3:c:256:GLY:N	2.46	0.45
1:a:1857:G:H2'	1:a:1858:C:C6	2.51	0.45
1:a:2268:G:H2'	1:a:2269:U:H6	1.82	0.45
1:a:2871:G:H2'	1:a:2872:G:C8	2.50	0.45
3:c:148:GLU:HB2	3:c:151:LYS:HD2	1.99	0.45
5:e:153:SER:HA	5:e:172:TRP:O	2.16	0.45
9:i:38:HIS:CE1	9:i:39:ARG:HG3	2.52	0.45
12:l:24:GLY:HA2	12:l:67:ARG:CZ	2.46	0.45
12:l:67:ARG:O	12:l:101:ARG:NH2	2.50	0.45
17:q:56:SER:HB2	17:q:100:ARG:HB2	1.98	0.45
26:z:12:ALA:HA	26:z:29:PRO:HA	1.97	0.45
1:A:184:A:C8	1:A:186:A:OP2	2.70	0.45
1:A:353:G:H4'	1:A:354:A:OP2	2.17	0.45
1:A:355:A:N6	1:A:1255:A:OP2	2.49	0.45
1:A:559:U:H2'	1:A:560:C:C6	2.51	0.45
1:A:620:U:H2'	1:A:621:G:C8	2.51	0.45
1:A:870:G:H2'	1:A:871:A:H8	1.81	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:879:G:C2	1:A:880:U:C5	3.04	0.45
1:A:955:A:H2'	1:A:958:C:C5	2.51	0.45
1:A:1318:A:P	1:A:1693:C:H2'	2.56	0.45
1:A:1445:C:H2'	1:A:1446:G:C8	2.52	0.45
1:A:1709:C:O2'	1:A:2699:U:OP1	2.35	0.45
1:A:1850:A:H1'	1:A:1852:A:C6	2.51	0.45
1:A:1858:C:H2'	1:A:1859:G:O4'	2.16	0.45
1:A:2120:U:O2	1:A:2213:G:N2	2.44	0.45
1:A:2347:A:H1'	1:A:2348:A:H2'	1.99	0.45
1:A:2840:G:P	4:D:76:ARG:HH22	2.39	0.45
1:A:2886:G:H2'	1:A:2887:G:C8	2.52	0.45
3:C:132:PRO:O	3:C:136:ILE:HG13	2.17	0.45
6:F:18:GLU:OE2	6:F:22:ARG:HG3	2.16	0.45
6:F:27:ASN:OD1	6:F:28:VAL:N	2.48	0.45
6:F:105:LYS:HB2	6:F:105:LYS:NZ	2.31	0.45
9:I:65:LYS:O	9:I:69:GLN:HB2	2.16	0.45
16:P:50:ARG:HG3	16:P:53:ARG:HH21	1.80	0.45
19:S:88:LYS:HB2	19:S:88:LYS:NZ	2.30	0.45
31:4:5:ALA:O	31:4:36:GLN:HG3	2.16	0.45
1:a:754:G:N1	1:a:772:G:H1'	2.32	0.45
1:a:798:A:N6	34:a:4922:HOH:O	2.49	0.45
1:a:854:U:OP2	11:k:36:LYS:HD3	2.17	0.45
1:a:927:G:N3	1:a:928:G:C8	2.85	0.45
1:a:1091:A:H1'	1:a:1093:G:C2	2.51	0.45
1:a:1336:C:H2'	1:a:1337:C:C6	2.51	0.45
1:a:1386:U:H4'	1:a:1440:U:H1'	1.98	0.45
1:a:1513:G:H2'	1:a:1594:C:N4	2.32	0.45
1:a:1595:C:H2'	1:a:1596:C:H6	1.82	0.45
1:a:1609:A:H2'	1:a:1610:G:C8	2.51	0.45
1:a:1749:G:H2'	1:a:1750:G:H8	1.82	0.45
1:a:1830:G:O6	3:c:179:SER:OG	2.31	0.45
1:a:1856:A:H2'	1:a:1857:G:C8	2.51	0.45
1:a:2035:A:H2'	1:a:2036:A:O4'	2.16	0.45
1:a:2249:G:H2'	1:a:2251:G:O6	2.15	0.45
1:a:2289:G:H5'	12:l:87:LYS:HB3	1.97	0.45
1:a:2779:G:C2	1:a:2780:C:C6	3.05	0.45
4:d:109:LYS:HE2	4:d:191:PRO:HA	1.98	0.45
20:t:46:LYS:HA	20:t:61:ILE:O	2.17	0.45
1:A:278:G:H5'	23:W:76:ARG:O	2.17	0.45
1:A:292:G:C4	1:A:293:C:C5	3.05	0.45
1:A:474:U:C4	1:A:606:G:H1'	2.51	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:512:C:H2'	1:A:513:C:C6	2.51	0.45
1:A:543:G:H2'	1:A:544:U:C6	2.51	0.45
1:A:1220:U:H2'	1:A:1220:U:OP2	2.17	0.45
1:A:1434:G:H2'	1:A:1435:G:H8	1.82	0.45
1:A:1651:C:H2'	1:A:1652:G:O4'	2.16	0.45
1:A:1897:C:H2'	1:A:1898:A:O4'	2.16	0.45
1:A:2174:G:H2'	1:A:2175:G:C8	2.52	0.45
1:A:2281:A:C4	1:A:2282:G:C8	3.05	0.45
1:A:2432:C:OP1	30:3:34:TRP:HB3	2.16	0.45
1:A:2708:U:H2'	1:A:2709:G:H8	1.79	0.45
1:A:2786:C:H2'	1:A:2787:C:H6	1.82	0.45
2:B:76:G:H2'	2:B:77:U:C6	2.52	0.45
4:D:16:ARG:HH11	4:D:173:VAL:HG13	1.81	0.45
7:G:74:ASN:OD1	7:G:138:LYS:NZ	2.40	0.45
18:R:32:ALA:O	18:R:36:LEU:HB2	2.16	0.45
1:a:127:C:H2'	1:a:128:C:C6	2.52	0.45
1:a:402:C:H2'	1:a:403:C:C6	2.52	0.45
1:a:408:G:H2'	1:a:409:G:C8	2.52	0.45
1:a:475:A:H3'	34:a:5062:HOH:O	2.15	0.45
1:a:821:A:H2'	1:a:821:A:N3	2.31	0.45
1:a:834:U:H3'	1:a:838:C:N4	2.32	0.45
1:a:1390:G:H1'	1:a:1431:G:H5''	1.97	0.45
1:a:2736:C:OP1	4:d:109:LYS:HD3	2.16	0.45
1:a:2873:C:H2'	1:a:2874:G:C8	2.51	0.45
10:j:112:MET:N	10:j:112:MET:SD	2.90	0.45
13:m:36:THR:HG22	13:m:37:THR:H	1.82	0.45
31:9:27:CYS:SG	31:9:28:GLU:N	2.90	0.45
1:A:257:C:C2	1:A:452:G:N2	2.85	0.45
1:A:275:C:H2'	1:A:276:C:H6	1.82	0.45
1:A:572:A:H61	17:Q:18:LEU:HG	1.82	0.45
1:A:596:G:H5'	34:A:4588:HOH:O	2.15	0.45
1:A:1020:C:H4'	1:A:1020:C:OP2	2.17	0.45
1:A:1052:C:O2'	9:I:106:MET:O	2.34	0.45
1:A:1335:C:H2'	1:A:1336:C:C6	2.51	0.45
1:A:1411:A:H5''	23:W:41:ARG:HH22	1.81	0.45
1:A:1738:C:O2'	1:A:1999:A:H5'	2.17	0.45
1:A:1763:G:H2'	1:A:1764:G:H8	1.81	0.45
1:A:1787:G:N2	1:A:1789:G:O6	2.36	0.45
1:A:1956:C:N4	34:A:4571:HOH:O	2.49	0.45
1:A:2409:G:H2'	1:A:2410:U:C6	2.52	0.45
1:A:2693:C:OP2	4:D:109:LYS:NZ	2.35	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2710:U:H2'	1:A:2711:C:H6	1.82	0.45
7:G:11:VAL:HG21	7:G:50:VAL:HG23	1.99	0.45
14:N:67:ARG:HB3	14:N:71:ARG:NH1	2.31	0.45
18:R:47:VAL:O	18:R:51:LEU:HB2	2.16	0.45
18:R:65:LEU:HD12	18:R:68:ARG:HE	1.82	0.45
1:a:476:G:H1	1:a:480:A:P	2.39	0.45
1:a:1531:G:H2'	1:a:1532:A:C8	2.50	0.45
1:a:2227:G:H2'	1:a:2228:G:C4	2.52	0.45
1:a:2614:A:H5''	34:a:6080:HOH:O	2.16	0.45
1:a:2799:U:H2'	1:a:2800:C:H6	1.82	0.45
1:a:2850:C:H5''	13:m:53:HIS:CD2	2.52	0.45
3:c:65:ILE:HG13	3:c:88:ARG:HH21	1.81	0.45
10:j:77:ILE:HD13	10:j:122:LEU:HB3	1.99	0.45
20:t:34:LYS:O	20:t:34:LYS:HD3	2.17	0.45
28:6:36:LEU:HD23	28:6:36:LEU:HA	1.78	0.45
1:A:418:G:O2'	1:A:437:G:OP1	2.30	0.45
1:A:1055:A:H2'	1:A:1056:A:C8	2.51	0.45
1:A:1296:G:N7	11:K:18:ARG:NH2	2.64	0.45
1:A:1430:A:N3	1:A:1451:U:H1'	2.32	0.45
1:A:1750:G:H2'	1:A:1751:G:C8	2.52	0.45
1:A:2079:A:C2	27:O:4:HIS:HB3	2.52	0.45
1:A:2103:C:H2'	1:A:2104:A:C8	2.46	0.45
1:A:2381:A:H2'	1:A:2382:G:C8	2.52	0.45
1:A:2520:G:O3'	1:A:2567:U:H5'	2.17	0.45
1:A:2723:A:H5''	1:A:2724:U:H5''	1.99	0.45
1:a:42:G:H2'	1:a:43:A:O4'	2.17	0.45
1:a:710:G:H2'	1:a:711:C:O4'	2.16	0.45
1:a:734:C:N3	1:a:835:A:H5'	2.31	0.45
1:a:876:A:H5'	1:a:878:G:N7	2.32	0.45
1:a:1082:G:H2'	1:a:1083:G:H8	1.82	0.45
1:a:1406:A:H3'	1:a:1407:G:H8	1.82	0.45
1:a:1484:U:C2	1:a:1485:A:C8	3.05	0.45
1:a:1515:C:H2'	1:a:1516:A:H8	1.81	0.45
1:a:1824:C:H2'	1:a:1825:U:C6	2.52	0.45
1:a:2282:G:H2'	1:a:2283:G:O4'	2.16	0.45
1:a:2630:G:H5''	1:a:2631:C:OP2	2.17	0.45
2:b:68:C:C2	2:b:69:G:C8	3.05	0.45
11:k:85:LEU:HD13	11:k:120:ALA:HB2	1.99	0.45
30:8:31:HIS:CE1	30:8:32:LEU:HB2	2.52	0.45
1:A:339:G:H2'	1:A:340:C:C6	2.52	0.45
1:A:800:C:C2	1:A:801:C:C5	3.05	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:801:C:H2'	1:A:802:C:C6	2.52	0.45
1:A:1041:C:O2	9:I:3:THR:OG1	2.31	0.45
1:A:2311:G:H2'	1:A:2312:G:C8	2.52	0.45
1:A:2431:U:H2'	1:A:2432:C:C6	2.52	0.45
1:A:2455:C:H3'	34:A:4609:HOH:O	2.16	0.45
8:H:2:LYS:HD3	8:H:20:ASP:OD2	2.17	0.45
11:K:77:ARG:NH1	11:K:79:ARG:HH12	2.15	0.45
13:M:8:ARG:NH1	13:M:39:PRO:HB3	2.32	0.45
24:X:32:LEU:HG	24:X:53:LEU:HD13	1.98	0.45
1:a:566:C:N3	1:a:576:G:N1	2.65	0.45
1:a:867:A:H2'	1:a:868:A:H8	1.82	0.45
1:a:903:C:H2'	1:a:904:C:H6	1.82	0.45
1:a:1751:G:H2'	1:a:1752:G:C8	2.52	0.45
1:a:2568:C:H2'	1:a:2569:G:O4'	2.17	0.45
1:a:2716:C:H2'	1:a:2717:A:O4'	2.16	0.45
1:a:2804:C:H2'	1:a:2805:G:H8	1.82	0.45
7:g:15:VAL:HG12	7:g:28:GLY:HA2	1.99	0.45
14:n:3:ARG:HH21	14:n:9:ARG:HH12	1.63	0.45
19:s:94:GLY:HA3	19:s:95:LEU:HA	1.68	0.45
21:u:10:ARG:NH1	21:u:36:LYS:HZ2	2.15	0.45
1:A:183:G:H2'	1:A:184:A:C8	2.52	0.44
1:A:1164:C:H2'	1:A:1165:C:H6	1.82	0.44
1:A:1445:C:H2'	1:A:1446:G:H8	1.81	0.44
1:A:2174:G:H2'	1:A:2175:G:H8	1.81	0.44
1:A:2412:G:H2'	1:A:2413:U:C6	2.53	0.44
1:A:2731:G:H4'	15:O:98:LYS:HG3	1.98	0.44
2:B:64:C:H2'	2:B:65:C:C6	2.52	0.44
5:E:37:VAL:HG13	5:E:184:TYR:HD1	1.83	0.44
15:O:77:PRO:HG2	15:O:80:SER:HB2	1.99	0.44
1:a:438:G:OP2	1:a:438:G:H2'	2.17	0.44
1:a:843:C:H2'	1:a:844:C:C6	2.52	0.44
1:a:1688:A:H2'	1:a:1689:G:O4'	2.17	0.44
1:a:1800:G:C4	1:a:1801:G:C8	3.05	0.44
1:a:1899:A:H3'	1:a:1900:G:O4'	2.17	0.44
1:a:2479:C:OP1	31:9:6:SER:OG	2.32	0.44
1:a:2491:G:OP2	31:9:2:LYS:NZ	2.49	0.44
1:a:2525:G:H1'	4:d:154:LYS:HZ1	1.82	0.44
1:a:2612:A:N6	34:a:4803:HOH:O	2.31	0.44
3:c:29:PRO:HA	3:c:83:GLU:OE2	2.16	0.44
12:l:27:VAL:HG13	12:l:105:GLU:HG2	1.98	0.44
21:u:19:ARG:HD2	21:u:84:GLU:HA	1.99	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:306:A:C8	1:A:383:A:C6	3.05	0.44
1:A:489:G:N2	1:A:491:G:H3'	2.33	0.44
1:A:540:A:HO2'	1:A:603:C:HO2'	1.50	0.44
1:A:627:G:C5	1:A:650:G:C2	3.05	0.44
1:A:1074:A:H2'	1:A:1075:A:H8	1.79	0.44
1:A:1390:G:H5'	1:A:1430:A:N6	2.31	0.44
1:A:1457:C:H2'	1:A:1458:A:H8	1.82	0.44
1:A:2356:U:OP1	28:13:37:ARG:NE	2.50	0.44
1:A:2694:U:OP2	1:A:2695:C:OP2	2.35	0.44
1:A:2769:U:OP2	31:4:19:ARG:NH2	2.43	0.44
6:F:88:ILE:H	6:F:88:ILE:HD13	1.83	0.44
20:T:83:THR:HG21	20:T:106:LEU:HD21	1.99	0.44
1:a:99:G:N2	24:x:4:SER:OG	2.50	0.44
1:a:331:G:C4	1:a:333:G:OP2	2.71	0.44
1:a:426:G:H2'	1:a:427:G:C8	2.52	0.44
1:a:489:G:C4	1:a:491:G:OP2	2.70	0.44
1:a:1001:G:H5''	12:l:77:LYS:HD2	1.97	0.44
1:a:1421:C:H2'	1:a:1422:C:H6	1.82	0.44
1:a:1512:G:H2'	1:a:1513:G:O4'	2.17	0.44
1:a:1699:A:OP1	13:m:8:ARG:HD3	2.17	0.44
1:a:2341:G:H2'	1:a:2342:G:H8	1.81	0.44
1:a:2386:C:H2'	1:a:2387:G:C8	2.52	0.44
1:a:2470:G:H21	1:a:2471:A:N6	2.14	0.44
1:a:2567:U:OP2	1:a:2568:C:H5	2.00	0.44
5:e:36:VAL:HG12	5:e:183:VAL:HG21	2.00	0.44
5:e:102:PRO:HB2	5:e:105:VAL:HG23	1.98	0.44
13:m:103:ARG:HH12	13:m:110:PRO:HD3	1.82	0.44
15:o:37:GLY:HA2	15:o:38:ASN:HA	1.67	0.44
1:A:231:G:N2	1:A:243:G:H2'	2.32	0.44
1:A:298:G:H2'	1:A:299:G:H8	1.82	0.44
1:A:1288:A:OP2	1:A:1288:A:C8	2.67	0.44
1:A:2208:G:N3	1:A:2208:G:H2'	2.32	0.44
1:A:2325:C:H1'	6:F:40:ASN:HB2	2.00	0.44
1:A:2517:G:H2'	1:A:2588:G:H1	1.82	0.44
1:A:2592:U:H3'	1:A:2593:G:N3	2.32	0.44
1:A:2847:G:H21	13:M:45:ARG:HH12	1.65	0.44
1:A:2848:G:C4	1:A:2849:G:C8	3.05	0.44
1:A:2856:G:H2'	1:A:2857:U:O4'	2.17	0.44
4:D:144:ARG:HG3	4:D:145:LYS:H	1.82	0.44
11:K:2:LYS:HB2	11:K:2:LYS:NZ	2.32	0.44
12:L:137:TYR:HE2	21:U:49:ARG:HH12	1.64	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:18:C:H2'	1:a:19:C:H6	1.82	0.44
1:a:84:G:OP2	20:t:30:VAL:HB	2.17	0.44
1:a:171:A:H2	1:a:460:C:H1'	1.83	0.44
1:a:474:U:H5'	1:a:475:A:C8	2.53	0.44
1:a:1073:A:H2'	1:a:1074:A:H8	1.81	0.44
1:a:1686:U:O2'	1:a:1687:C:H5'	2.17	0.44
1:a:1836:U:OP1	3:c:252:TRP:NE1	2.50	0.44
1:a:1968:U:H2'	1:a:1969:C:C6	2.52	0.44
1:a:2123:G:H2'	1:a:2124:U:H6	1.82	0.44
1:a:2478:C:O2'	12:l:123:HIS:ND1	2.46	0.44
20:t:88:LYS:HD3	20:t:98:VAL:HG11	1.99	0.44
22:v:37:LEU:N	22:v:59:LEU:O	2.34	0.44
1:A:752:A:H2'	1:A:753:A:O4'	2.17	0.44
1:A:755:C:H2'	1:A:756:U:C6	2.53	0.44
1:A:1197:G:H2'	1:A:1198:C:H6	1.82	0.44
1:A:1686:U:H4'	1:A:2711:C:H4'	1.99	0.44
1:A:1770:A:H3'	1:A:1771:G:C8	2.48	0.44
1:A:2061:C:H2'	1:A:2062:C:C6	2.53	0.44
1:A:2467:G:H2'	1:A:2468:C:C6	2.51	0.44
1:A:2495:C:H2'	1:A:2496:G:O4'	2.17	0.44
5:E:34:TRP:HB2	11:K:6:LEU:HD22	1.99	0.44
1:a:290:G:H2'	1:a:291:G:H8	1.82	0.44
1:a:676:G:H4'	30:8:18:ALA:HB3	1.99	0.44
1:a:776:G:H2'	1:a:1806:U:H1'	2.00	0.44
1:a:841:G:H2'	1:a:842:C:C6	2.53	0.44
1:a:1044:C:P	16:p:92:ARG:HH22	2.37	0.44
1:a:1151:U:H2'	1:a:1152:G:C8	2.43	0.44
1:a:1344:C:H5'	1:a:1348:A:N6	2.31	0.44
1:a:1897:C:H2'	1:a:1898:A:O4'	2.18	0.44
1:a:1914:C:H2'	1:a:1915:C:C6	2.52	0.44
1:a:1957:G:H2'	1:a:1957:G:N3	2.33	0.44
1:a:2000:A:H2'	1:a:2001:C:O4'	2.17	0.44
1:a:2034:G:OP1	18:r:11:ARG:NH2	2.51	0.44
4:d:22:PRO:O	4:d:186:GLY:N	2.36	0.44
5:e:103:LYS:H	5:e:103:LYS:HG3	1.58	0.44
9:i:49:GLY:N	9:i:119:ARG:HH12	2.15	0.44
21:u:115:GLY:HA3	21:u:146:ILE:HD11	1.99	0.44
21:u:125:LEU:HG	21:u:164:ALA:HB3	1.98	0.44
30:8:8:LYS:HD3	30:8:8:LYS:HA	1.73	0.44
31:9:9:ARG:HB3	31:9:14:CYS:HB2	2.00	0.44
1:A:1047:A:H3'	1:A:1048:G:C8	2.52	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1459:G:H2'	1:A:1460:G:H8	1.82	0.44
1:A:1471:G:OP2	3:C:31:LYS:HD3	2.17	0.44
1:A:1565:G:H5''	1:A:1566:U:OP2	2.18	0.44
1:A:1944:G:H2'	1:A:1945:U:C6	2.53	0.44
1:A:1964:5MC:H5''	1:A:1965:U:H5''	1.98	0.44
1:A:2160:C:H2'	1:A:2161:C:C6	2.52	0.44
1:A:2213:G:H2'	1:A:2214:G:C8	2.53	0.44
1:A:2250:G:O4'	1:A:2252:C:N4	2.32	0.44
1:A:2646:G:H2'	1:A:2647:C:C6	2.52	0.44
5:E:154:VAL:HA	5:E:191:ARG:O	2.17	0.44
6:F:29:TRP:O	6:F:33:ARG:NH1	2.51	0.44
6:F:43:LEU:HD21	6:F:153:ARG:HE	1.83	0.44
9:I:123:TYR:OH	9:I:130:HIS:NE2	2.36	0.44
14:N:58:LEU:HB3	14:N:65:VAL:HG22	2.00	0.44
16:P:41:ALA:O	16:P:45:TYR:HB2	2.18	0.44
18:R:51:LEU:HD23	18:R:51:LEU:HA	1.85	0.44
1:a:336:G:H4'	1:a:355:A:N3	2.33	0.44
1:a:347:G:H1'	1:a:1250:U:H3	1.82	0.44
1:a:509:A:O2'	20:t:58:GLY:HA3	2.18	0.44
1:a:844:C:P	5:e:62:ARG:HH11	2.39	0.44
1:a:861:C:H1'	1:a:1271:G:N2	2.33	0.44
1:a:935:C:H4'	1:a:936:C:OP2	2.16	0.44
1:a:1055:A:H1'	1:a:1199:C:O2'	2.18	0.44
1:a:1820:A:OP1	3:c:222:ARG:HG2	2.17	0.44
1:a:1821:C:OP1	3:c:220:HIS:N	2.38	0.44
1:a:1887:G:H2'	1:a:1888:G:O4'	2.18	0.44
1:a:2222:C:H2'	1:a:2223:C:C6	2.52	0.44
1:a:2319:G:H4'	1:a:2320:G:O4'	2.17	0.44
1:A:322:G:OP2	20:T:87:LYS:HG2	2.18	0.44
1:A:464:G:H2'	1:A:465:G:O4'	2.18	0.44
1:A:896:A:N1	25:Y:25:ALA:HB2	2.31	0.44
1:A:993:G:H2'	1:A:994:C:O4'	2.17	0.44
1:A:1261:G:OP1	16:P:8:VAL:HG21	2.17	0.44
1:A:1312:G:O5'	18:R:15:ARG:NH2	2.51	0.44
1:A:1360:C:O2'	34:A:4440:HOH:O	2.01	0.44
1:A:1385:G:H5''	19:S:16:LYS:HD2	2.00	0.44
1:A:1438:A:H61	19:S:15:GLU:HG3	1.82	0.44
1:A:1967:G:C6	1:A:1968:U:C4	3.06	0.44
1:A:2276:C:H2'	1:A:2277:U:C6	2.53	0.44
1:A:2419:G:H2'	1:A:2420:U:O4'	2.18	0.44
1:A:2558:U:H4'	1:A:2578:A:H2	1.82	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2635:G:H2'	1:A:2636:G:H8	1.82	0.44
1:A:2846:U:H2'	1:A:2847:G:H8	1.81	0.44
2:B:75:G:H2'	2:B:76:G:C8	2.53	0.44
6:F:109:VAL:C	6:F:112:PRO:HD2	2.43	0.44
7:G:24:VAL:HG13	7:G:35:VAL:HB	1.98	0.44
10:J:71:ARG:HH12	10:J:77:ILE:HG22	1.82	0.44
1:a:85:C:P	20:t:32:PRO:HG2	2.58	0.44
1:a:984:G:H2'	1:a:985:G:C8	2.52	0.44
1:a:1199:C:H2'	1:a:1200:G:O4'	2.17	0.44
1:a:1374:G:H4'	1:a:1375:U:H5	1.83	0.44
1:a:1556:A:H2'	1:a:1557:A:H8	1.82	0.44
1:a:1651:C:O2	1:a:1656:A:O2'	2.21	0.44
1:a:1786:A:N6	1:a:2706:G:O2'	2.50	0.44
1:a:1850:A:H5''	3:c:161:THR:HG21	2.00	0.44
1:a:2357:G:H5''	28:6:38:LYS:NZ	2.33	0.44
1:a:2370:G:H2'	1:a:2371:C:C6	2.52	0.44
1:a:2418:U:O4	11:k:70:GLN:NE2	2.51	0.44
19:s:36:LYS:O	19:s:40:LYS:HD3	2.18	0.44
21:u:182:LYS:HE2	21:u:182:LYS:HB3	1.86	0.44
23:w:76:ARG:HH11	23:w:97:LEU:HB3	1.82	0.44
24:x:1:MET:SD	24:x:59:ARG:NH2	2.80	0.44
25:y:8:LEU:HG	25:y:28:LEU:HD13	2.00	0.44
1:A:23:G:C6	1:A:543:G:C6	3.06	0.44
1:A:85:C:H4'	1:A:102:U:H1'	2.00	0.44
1:A:364:A:H2'	1:A:365:G:O4'	2.17	0.44
1:A:882:A:C4	1:A:883:G:C8	3.06	0.44
1:A:2266:C:H2'	1:A:2267:G:O4'	2.17	0.44
1:A:2673:G:H2'	1:A:2674:A:C8	2.53	0.44
2:B:30:C:H2'	2:B:31:C:O4'	2.18	0.44
4:D:199:ARG:NH1	4:D:202:LYS:HZ2	2.08	0.44
8:H:45:LYS:O	8:H:49:ALA:HB2	2.17	0.44
13:M:104:ARG:HB3	13:M:107:ASP:OD1	2.18	0.44
1:a:82:G:O2'	1:a:83:A:OP2	2.32	0.44
1:a:189:U:OP2	1:a:190:C:H5	2.01	0.44
1:a:667:G:N1	1:a:670:C:OP2	2.48	0.44
1:a:858:U:H2'	11:k:21:ARG:HA	1.99	0.44
1:a:892:G:H1'	1:a:894:U:H5	1.82	0.44
1:a:1255:A:H4'	1:a:1256:U:O5'	2.16	0.44
1:a:1445:C:N4	34:a:4892:HOH:O	2.46	0.44
1:a:1467:G:OP2	1:a:1468:G:OP2	2.34	0.44
1:a:1480:A:N6	1:a:1605:A:H61	2.15	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2129:C:H2'	1:a:2130:C:C6	2.53	0.44
1:a:2420:U:H2'	1:a:2421:G:C8	2.52	0.44
1:a:2585:C:OP1	1:a:2586:G:H5''	2.18	0.44
2:b:106:G:H2'	2:b:107:G:H8	1.81	0.44
10:j:2:ILE:HD12	10:j:8:LEU:HD21	1.99	0.44
15:o:27:THR:O	15:o:89:VAL:HG13	2.17	0.44
16:p:88:ILE:HG22	16:p:90:VAL:HG23	1.99	0.44
19:s:74:PRO:O	19:s:76:ARG:NH1	2.49	0.44
21:u:15:PRO:O	21:u:19:ARG:HB2	2.17	0.44
1:A:147:U:H2'	1:A:148:C:C6	2.53	0.44
1:A:965:G:H2'	1:A:966:G:O4'	2.18	0.44
1:A:1180:C:C6	1:A:1182:G:OP2	2.71	0.44
1:A:1654:A:H1'	1:A:1656:A:OP2	2.18	0.44
1:A:1804:A:N7	1:A:1860:A:H1'	2.33	0.44
1:A:1844:G:H5''	3:C:40:THR:HG21	1.99	0.44
1:A:2215:G:H2'	1:A:2216:G:C8	2.53	0.44
1:A:2813:G:H2'	1:A:2814:C:H6	1.83	0.44
3:C:143:HIS:CD2	3:C:196:VAL:HG22	2.52	0.44
5:E:43:LYS:HA	5:E:98:SER:HB3	2.00	0.44
5:E:155:LEU:HG	5:E:157:VAL:HG23	1.99	0.44
21:U:144:LEU:HD23	21:U:144:LEU:HA	1.87	0.44
1:a:992:G:C2	1:a:993:G:C5	3.05	0.44
1:a:1480:A:H61	1:a:1605:A:N6	2.16	0.44
1:a:1498:C:N4	1:a:1499:C:H41	2.16	0.44
1:a:2121:U:H2'	1:a:2122:G:C8	2.51	0.44
1:a:2149:G:OP2	1:a:2149:G:O4'	2.36	0.44
1:a:2222:C:O2'	1:a:2239:A:N1	2.41	0.44
1:a:2482:G:H2'	1:a:2483:C:H6	1.81	0.44
1:a:2693:C:OP1	4:d:109:LYS:NZ	2.44	0.44
4:d:47:VAL:HG21	4:d:86:PRO:HD2	1.98	0.44
5:e:178:PRO:HB2	5:e:201:VAL:HG21	2.00	0.44
6:f:166:ASP:O	6:f:170:ARG:HB2	2.18	0.44
12:l:63:LYS:HB2	21:u:116:VAL:HG11	1.99	0.44
21:u:72:ARG:NH2	21:u:97:GLU:O	2.50	0.44
23:w:73:LEU:HA	23:w:76:ARG:HB2	2.00	0.44
1:A:196:A:H2'	1:A:197:C:O4'	2.17	0.44
1:A:478:G:H1'	1:A:484:G:N1	2.33	0.44
1:A:542:C:P	27:0:13:LYS:NZ	2.91	0.44
1:A:1228:G:OP1	25:Y:30:ARG:NH2	2.50	0.44
1:A:1289:G:H2'	1:A:1290:G:O4'	2.18	0.44
1:A:1297:C:P	16:P:10:ARG:HG3	2.58	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1991:A:O2'	1:A:1994:A:N3	2.44	0.44
2:B:9:G:OP1	14:N:25:ARG:NH2	2.51	0.44
5:E:118:ALA:HB2	5:E:123:LEU:HD22	2.00	0.44
10:J:7:TYR:HA	10:J:20:MET:HA	2.00	0.44
12:L:39:PRO:HD3	12:L:99:PRO:HG3	1.99	0.44
1:a:35:G:H2'	1:a:36:G:O4'	2.18	0.44
1:a:119:G:H1'	1:a:129:G:H22	1.83	0.44
1:a:328:G:H2'	1:a:329:U:C6	2.53	0.44
1:a:614:C:H2'	1:a:615:G:H8	1.83	0.44
1:a:661:G:C8	11:k:113:LYS:NZ	2.85	0.44
1:a:826:U:H2'	1:a:827:G:O4'	2.18	0.44
1:a:892:G:H8	1:a:894:U:O4	2.01	0.44
1:a:906:G:O2'	1:a:962:G:O6	2.34	0.44
1:a:1223:C:H2'	1:a:1224:C:H6	1.83	0.44
1:a:1491:A:OP2	1:a:1492:C:H5	2.00	0.44
1:a:1609:A:H2'	1:a:1610:G:H8	1.83	0.44
1:a:2000:A:O2'	34:a:4777:HOH:O	2.21	0.44
1:a:2315:G:O2'	6:f:132:ASN:HB2	2.17	0.44
2:b:106:G:H2'	2:b:107:G:C8	2.52	0.44
3:c:248:SER:HG	3:c:252:TRP:CG	2.36	0.44
11:k:77:ARG:HG2	11:k:79:ARG:NH1	2.33	0.44
16:p:83:LEU:HG	16:p:88:ILE:HB	1.98	0.44
19:s:26:TYR:HB2	19:s:81:VAL:HG22	2.00	0.44
25:y:5:LYS:HE2	25:y:57:GLU:HB3	1.99	0.44
1:A:182:U:H2'	1:A:183:G:C8	2.52	0.43
1:A:589:U:H4'	1:A:856:G:OP2	2.18	0.43
1:A:943:C:H2'	1:A:944:C:C6	2.52	0.43
1:A:1467:G:H3'	1:A:1467:G:OP2	2.18	0.43
1:A:1886:G:C4	1:A:1887:G:C8	3.06	0.43
1:A:1915:C:H2'	1:A:1916:C:O4'	2.18	0.43
1:A:2512:U:H5''	1:A:2513:C:OP2	2.18	0.43
1:A:2589:A:H2'	1:A:2626:A:N6	2.33	0.43
4:D:103:ASP:OD2	4:D:168:MET:HE2	2.18	0.43
12:L:75:THR:HG21	12:L:87:LYS:HZ3	1.82	0.43
18:R:11:ARG:O	18:R:42:ARG:NH1	2.50	0.43
21:U:16:SER:O	21:U:20:ARG:HG3	2.18	0.43
21:U:47:VAL:O	21:U:51:ALA:CB	2.55	0.43
1:a:465:G:H2'	1:a:466:G:O4'	2.18	0.43
1:a:1148:C:C2	1:a:1149:A:C8	3.06	0.43
1:a:1243:U:H2'	1:a:1244:U:H6	1.83	0.43
1:a:1411:A:O4'	23:w:41:ARG:NH2	2.50	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1878:A:N3	1:a:1878:A:H2'	2.33	0.43
1:a:2142:G:H2'	1:a:2143:G:H8	1.83	0.43
2:b:51:G:O2'	2:b:52:A:H5'	2.18	0.43
15:o:46:GLU:O	15:o:65:LYS:HD3	2.18	0.43
29:7:6:GLN:NE2	34:7:203:HOH:O	2.50	0.43
1:A:174:U:H2'	1:A:175:G:C8	2.53	0.43
1:A:799:A:H2'	29:2:1:MET:HE3	1.99	0.43
1:A:820:U:H5'	3:C:47:GLY:HA3	2.00	0.43
1:A:1463:C:H2'	1:A:1464:G:O4'	2.18	0.43
1:A:1495:G:H5''	1:A:1589:A:OP1	2.18	0.43
1:A:1859:G:N1	34:A:4459:HOH:O	2.20	0.43
1:A:2175:G:H2'	1:A:2176:G:C8	2.53	0.43
1:A:2309:C:C2	1:A:2310:A:C8	3.07	0.43
1:A:2377:G:H4'	22:V:60:PHE:CZ	2.53	0.43
1:A:2423:A:H2'	1:A:2424:A:H8	1.84	0.43
1:A:2455:C:H2'	1:A:2456:G:C8	2.50	0.43
1:A:2533:C:H1'	1:A:2577:A:N3	2.33	0.43
1:A:2543:A:C4	1:A:2544:G:C8	3.06	0.43
1:A:2766:A:H2'	1:A:2767:U:C6	2.54	0.43
2:B:22:U:H2'	2:B:23:G:H8	1.83	0.43
4:D:2:LYS:HE2	4:D:200:GLU:HG3	2.00	0.43
7:G:44:VAL:HB	7:G:51:ARG:HB2	1.99	0.43
8:H:61:ARG:N	8:H:61:ARG:HH11	2.16	0.43
28:13:23:THR:OG1	28:13:24:GLU:N	2.50	0.43
1:a:559:U:H2'	1:a:560:C:C6	2.53	0.43
1:a:674:G:H1'	30:8:46:ARG:HH22	1.83	0.43
1:a:1146:C:H2'	1:a:1147:U:O4'	2.18	0.43
1:a:1716:A:O3'	1:a:2561:G:H5''	2.18	0.43
1:a:1964:5MC:O2'	1:a:1965:U:H2'	2.18	0.43
1:a:1994:A:H2'	1:a:1995:G:H8	1.83	0.43
1:a:2021:C:P	4:d:118:LYS:NZ	2.91	0.43
1:a:2118:U:H3	1:a:2215:G:H1	1.64	0.43
1:a:2654:G:H2'	1:a:2655:G:C8	2.53	0.43
2:b:35:U:H2'	2:b:36:C:C6	2.53	0.43
2:b:48:A:P	14:n:30:ARG:HH22	2.40	0.43
6:f:68:PRO:HB3	6:f:92:VAL:HB	2.00	0.43
8:h:2:LYS:HA	8:h:20:ASP:HA	2.00	0.43
11:k:126:VAL:HA	11:k:146:VAL:HB	1.99	0.43
14:n:65:VAL:O	14:n:69:VAL:HG13	2.18	0.43
23:w:3:LYS:HG3	23:w:4:VAL:H	1.83	0.43
30:8:30:ARG:HA	30:8:30:ARG:HD3	1.89	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:293:C:H2'	1:A:294:C:H6	1.83	0.43
1:A:333:G:H5''	20:T:21:LYS:NZ	2.33	0.43
1:A:897:C:H2'	1:A:898:U:C6	2.54	0.43
1:A:952:G:HO2'	12:L:67:ARG:HH21	1.61	0.43
1:A:1016:C:H2'	1:A:1017:G:O4'	2.18	0.43
1:A:1302:G:O2'	5:E:75:HIS:NE2	2.47	0.43
1:A:1342:G:OP1	1:A:2721:G:O2'	2.20	0.43
1:A:2117:C:H2'	1:A:2118:U:C6	2.53	0.43
1:A:2119:C:H2'	1:A:2120:U:C6	2.53	0.43
1:A:2262:G:H5'	34:A:5878:HOH:O	2.18	0.43
1:A:2329:C:H2'	1:A:2330:G:O4'	2.17	0.43
1:A:2482:G:H2'	1:A:2483:C:C6	2.53	0.43
1:A:2745:G:P	4:D:203:LYS:HZ1	2.38	0.43
1:A:2812:A:H1'	1:A:2904:U:H1'	2.00	0.43
4:D:37:ARG:HB2	4:D:46:ALA:HB3	2.00	0.43
14:N:27:SER:N	14:N:38:GLN:O	2.45	0.43
1:a:73:A:OP1	24:x:54:LYS:NZ	2.51	0.43
1:a:524:U:H2'	1:a:525:G:O4'	2.18	0.43
1:a:710:G:N2	1:a:984:G:O3'	2.52	0.43
1:a:747:G:H2'	1:a:748:G:C8	2.53	0.43
1:a:1136:U:H2'	1:a:1137:G:C8	2.54	0.43
1:a:2023:A:H5'	1:a:2701:U:H2'	1.98	0.43
1:a:2190:G:N1	1:a:2193:A:OP2	2.51	0.43
1:a:2365:G:N2	22:v:34:GLY:O	2.50	0.43
2:b:112:U:H2'	2:b:113:G:C8	2.54	0.43
3:c:45:ASN:OD1	3:c:45:ASN:N	2.51	0.43
3:c:273:ARG:HG2	3:c:274:ARG:H	1.83	0.43
4:d:37:ARG:HA	4:d:42:ASP:OD2	2.19	0.43
4:d:37:ARG:HB2	4:d:46:ALA:HB3	2.00	0.43
6:f:73:ALA:HB3	6:f:85:GLY:N	2.33	0.43
27:5:20:ARG:HA	27:5:23:HIS:CD2	2.54	0.43
29:7:46:VAL:HG22	29:7:48:LYS:HG2	2.00	0.43
1:A:39:C:H2'	1:A:40:C:H6	1.82	0.43
1:A:84:G:H2'	1:A:85:C:C6	2.53	0.43
1:A:310:C:H2'	1:A:311:C:C6	2.52	0.43
1:A:980:C:H2'	1:A:981:C:H6	1.83	0.43
1:A:1110:C:H3'	1:A:1111:U:H5''	2.00	0.43
1:A:1545:C:H2'	1:A:1546:G:C8	2.53	0.43
1:A:1566:U:H3'	1:A:1567:G:H8	1.84	0.43
1:A:1794:G:H2'	1:A:1795:G:O3'	2.19	0.43
1:A:1911:A:H2'	1:A:1912:A:C8	2.52	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2619:G:H4'	34:A:5988:HOH:O	2.18	0.43
1:A:2794:A:H5''	1:A:2795:G:O4'	2.18	0.43
1:A:2897:U:H2'	1:A:2898:C:C6	2.53	0.43
2:B:17:C:H2'	2:B:18:G:O4'	2.18	0.43
4:D:127:ASP:OD1	4:D:135:HIS:ND1	2.50	0.43
6:F:15:VAL:HG13	6:F:175:LEU:HD23	1.98	0.43
7:G:7:LEU:HG	7:G:69:ARG:NH1	2.32	0.43
11:K:95:VAL:HA	11:K:99:LEU:HD12	2.00	0.43
11:K:97:PRO:HG3	11:K:112:LEU:HD12	2.00	0.43
16:P:50:ARG:HG3	16:P:53:ARG:NH2	2.32	0.43
17:Q:43:GLU:H	17:Q:43:GLU:HG2	1.49	0.43
20:T:27:VAL:HA	20:T:38:ILE:O	2.19	0.43
25:Y:5:LYS:HZ1	25:Y:55:ARG:HE	1.66	0.43
30:3:52:LYS:O	30:3:56:GLU:HG3	2.18	0.43
1:a:635:C:C2	1:a:636:G:C8	3.06	0.43
1:a:734:C:H2'	1:a:735:U:O4'	2.18	0.43
1:a:796:C:C2	1:a:797:A:C8	3.06	0.43
1:a:860:U:H2'	1:a:861:C:C6	2.51	0.43
1:a:922:G:H5''	21:u:149:SER:HB3	2.01	0.43
1:a:1011:G:H2'	1:a:1012:C:H6	1.83	0.43
1:a:1329:G:N2	1:a:1331:G:H3'	2.33	0.43
1:a:2177:G:H2'	1:a:2178:G:C8	2.53	0.43
1:a:2695:C:C4	1:a:2696:U:C4	3.07	0.43
2:b:41:U:P	2:b:43:C:H41	2.42	0.43
5:e:164:ARG:NH1	5:e:177:ALA:HA	2.34	0.43
6:f:18:GLU:OE1	6:f:21:ARG:HD3	2.19	0.43
7:g:3:ARG:CZ	7:g:5:GLY:H	2.32	0.43
12:l:55:VAL:HG23	21:u:178:GLU:HB3	1.99	0.43
12:l:134:ARG:NH2	21:u:122:ARG:NH1	2.65	0.43
15:o:108:ARG:HH12	15:o:112:ARG:CB	2.32	0.43
29:7:46:VAL:HG23	29:7:48:LYS:H	1.84	0.43
1:A:81:G:H5''	1:A:320:C:H5'	2.01	0.43
1:A:236:G:H4'	1:A:413:G:C5	2.53	0.43
1:A:323:A:N6	1:A:363:U:H3	2.16	0.43
1:A:361:C:H5''	20:T:4:LYS:CB	2.48	0.43
1:A:667:G:N2	1:A:670:C:OP2	2.51	0.43
1:A:721:G:O2'	5:E:67:GLN:OE1	2.31	0.43
1:A:734:C:H5''	29:2:2:LYS:HE2	2.00	0.43
1:A:1423:G:H5''	34:A:5059:HOH:O	2.19	0.43
1:A:1626:A:H2'	1:A:1627:A:H8	1.84	0.43
1:A:1929:G:H2'	1:A:1930:C:H6	1.82	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1960:A:N7	1:A:2602:A:O2'	2.49	0.43
1:A:2016:C:OP2	4:D:127:ASP:OD2	2.36	0.43
1:A:2118:U:H2'	1:A:2119:C:H6	1.83	0.43
2:B:35:U:H2'	2:B:36:C:O4'	2.18	0.43
3:C:221:VAL:HG13	3:C:226:MET:HE2	2.00	0.43
7:G:70:THR:HG22	7:G:74:ASN:HD21	1.84	0.43
9:I:17:ASP:H	9:I:137:LYS:HZ3	1.67	0.43
1:a:138:G:N2	1:a:141:C:C2	2.86	0.43
1:a:150:C:C2	1:a:151:C:C5	3.06	0.43
1:a:193:A:OP1	1:a:195:U:H1'	2.18	0.43
1:a:771:U:H2'	1:a:772:G:O4'	2.17	0.43
1:a:776:G:OP1	3:c:10:THR:OG1	2.27	0.43
1:a:804:U:H2'	1:a:805:C:O4'	2.19	0.43
1:a:1318:A:H4'	1:a:1319:U:OP2	2.18	0.43
1:a:1425:A:H4'	1:a:1426:G:OP2	2.19	0.43
1:a:1498:C:O2'	1:a:1500:A:N1	2.51	0.43
1:a:1709:C:H2'	1:a:1710:C:C6	2.54	0.43
1:a:1822:A:H3'	1:a:1823:G:C8	2.53	0.43
1:a:1827:U:H2'	1:a:1828:C:H6	1.84	0.43
1:a:2240:G:H2'	1:a:2241:C:O4'	2.18	0.43
1:a:2403:G:C6	1:a:2439:C:H1'	2.54	0.43
1:a:2483:C:H2'	1:a:2484:G:O4'	2.17	0.43
1:a:2549:U:C2	1:a:2550:C:C5	3.06	0.43
1:a:2771:A:H2'	1:a:2772:G:O4'	2.18	0.43
1:a:2797:C:H4'	4:d:41:LYS:HB3	2.00	0.43
2:b:100:A:C4	2:b:101:G:C8	3.06	0.43
4:d:14:ILE:HD11	4:d:173:VAL:HG11	2.00	0.43
4:d:134:ILE:HA	4:d:137:HIS:CD2	2.52	0.43
6:f:117:PHE:HD2	26:z:40:HIS:HE1	1.67	0.43
13:m:38:VAL:HG12	13:m:42:LYS:HE3	2.00	0.43
15:o:27:THR:HB	15:o:89:VAL:HG22	2.00	0.43
15:o:32:TYR:HD2	15:o:83:ILE:HG12	1.84	0.43
20:t:39:VAL:O	20:t:64:GLU:HG2	2.18	0.43
23:w:44:PRO:HB2	23:w:46:LEU:HD21	1.99	0.43
27:5:41:PRO:O	27:5:44:THR:OG1	2.32	0.43
1:A:949:C:H2'	1:A:950:C:H6	1.82	0.43
1:A:1343:C:O2'	1:A:1348:A:N1	2.50	0.43
1:A:1369:U:H2'	1:A:1370:G:H5'	1.99	0.43
1:A:1457:C:H2'	1:A:1458:A:C8	2.53	0.43
1:A:1728:G:N2	34:A:4565:HOH:O	2.48	0.43
1:A:2317:A:H2'	1:A:2318:C:O4'	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2388:A:H2'	1:A:2389:A:O4'	2.18	0.43
1:A:2483:C:H2'	1:A:2484:G:O4'	2.18	0.43
1:A:2692:C:H5'	4:D:189:PRO:HA	1.99	0.43
1:A:2831:A:H2'	1:A:2832:G:C8	2.52	0.43
1:A:2850:C:H2'	1:A:2851:C:H6	1.82	0.43
1:A:2866:C:H2'	1:A:2867:G:O4'	2.19	0.43
4:D:55:ASN:HB2	4:D:58:ARG:HH11	1.83	0.43
6:F:106:LEU:HD12	6:F:110:ALA:HB3	2.00	0.43
21:U:137:ILE:HG22	21:U:138:GLU:H	1.83	0.43
24:X:66:GLU:HA	24:X:69:ARG:CZ	2.48	0.43
29:2:29:LYS:O	29:2:33:ARG:N	2.38	0.43
1:a:24:G:H2'	1:a:25:U:C6	2.54	0.43
1:a:184:A:H2'	1:a:187:C:N4	2.33	0.43
1:a:205:A:H3'	1:a:206:G:H8	1.82	0.43
1:a:546:G:H2'	1:a:547:G:H8	1.82	0.43
1:a:760:G:H2'	1:a:761:U:C6	2.52	0.43
1:a:1046:A:H2'	1:a:1047:A:H8	1.82	0.43
1:a:1828:C:H2'	1:a:1829:U:C6	2.54	0.43
1:a:1931:C:H2'	1:a:1932:G:C8	2.53	0.43
1:a:1944:G:H2'	1:a:1945:U:C6	2.52	0.43
1:a:2159:C:H2'	1:a:2160:C:H6	1.83	0.43
1:a:2646:G:H2'	1:a:2647:C:C6	2.53	0.43
1:a:2823:A:H2'	1:a:2824:C:C6	2.53	0.43
1:a:2831:A:OP2	1:a:2831:A:H3'	2.18	0.43
4:d:8:LYS:NZ	4:d:188:VAL:O	2.51	0.43
12:l:138:ASP:CG	21:u:81:ARG:NH1	2.74	0.43
14:n:15:ARG:O	14:n:19:LYS:NZ	2.51	0.43
18:r:60:ASN:ND2	18:r:61:ASN:OD1	2.47	0.43
21:u:6:LYS:NZ	21:u:6:LYS:HB3	2.34	0.43
29:7:29:LYS:O	29:7:33:ARG:N	2.49	0.43
1:A:580:U:H2'	1:A:581:G:C8	2.53	0.43
1:A:673:G:O4'	1:A:2363:G:H5''	2.19	0.43
1:A:1080:G:H2'	1:A:1081:U:C6	2.54	0.43
1:A:1778:G:H2'	1:A:1779:G:C8	2.53	0.43
1:A:1790:A:H2'	1:A:1791:A:H8	1.83	0.43
1:A:2315:G:H2'	1:A:2316:G:C8	2.53	0.43
1:A:2586:G:H1'	4:D:143:ASN:HB3	2.01	0.43
1:A:2846:U:H2'	1:A:2847:G:C8	2.53	0.43
3:C:150:LYS:HD3	3:C:150:LYS:HA	1.81	0.43
6:F:112:PRO:HA	26:Z:40:HIS:CE1	2.54	0.43
16:P:65:ILE:HD11	16:P:92:ARG:O	2.18	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:181:C:O2'	1:a:849:A:N3	2.52	0.43
1:a:344:A:H4'	1:a:346:A:N7	2.34	0.43
1:a:497:A:H3'	1:a:498:A:C8	2.54	0.43
1:a:667:G:H1	1:a:670:C:P	2.42	0.43
1:a:902:G:H2'	1:a:903:C:H6	1.83	0.43
1:a:1226:C:H2'	1:a:1227:A:H8	1.83	0.43
1:a:1462:G:C4	1:a:1463:C:C5	3.07	0.43
1:a:1822:A:H5'	1:a:1823:G:OP2	2.18	0.43
1:a:2109:G:H1	1:a:2244:U:H3	1.66	0.43
1:a:2474:U:H2'	1:a:2475:C:C6	2.53	0.43
1:a:2653:G:O3'	9:i:76:SER:OG	2.32	0.43
3:c:143:HIS:HD1	3:c:194:GLY:C	2.26	0.43
5:e:18:ARG:NH1	5:e:20:LEU:HD23	2.34	0.43
7:g:11:VAL:HB	7:g:48:GLY:HA2	2.01	0.43
11:k:59:LEU:HD22	30:8:13:ARG:HE	1.84	0.43
15:o:26:ASP:OD1	15:o:120:ARG:NH2	2.51	0.43
16:p:92:ARG:HA	16:p:95:LEU:HB2	2.01	0.43
17:q:16:PRO:HD3	17:q:99:ILE:HD11	2.01	0.43
24:x:33:MET:HG2	24:x:37:PHE:CZ	2.54	0.43
1:A:259:A:H3'	1:A:260:A:H8	1.84	0.43
1:A:590:A:H5''	1:A:591:U:OP2	2.19	0.43
1:A:2239:A:H2'	1:A:2240:G:H8	1.83	0.43
1:A:2243:C:H2'	1:A:2244:U:C6	2.53	0.43
1:A:2430:A:H2'	1:A:2431:U:O4'	2.19	0.43
1:A:2564:2MU:H6'1	1:A:2566:U:H6	1.84	0.43
1:A:2602:A:H2'	1:A:2603:C:C6	2.54	0.43
2:B:22:U:H2'	2:B:23:G:C8	2.53	0.43
2:B:83:G:C2	2:B:95:C:N3	2.87	0.43
7:G:119:GLU:O	7:G:140:LYS:NZ	2.32	0.43
13:M:36:THR:HG22	13:M:37:THR:H	1.84	0.43
1:a:326:C:C4	1:a:327:U:C5	3.07	0.43
1:a:360:C:O2'	20:t:35:TYR:OH	2.34	0.43
1:a:443:C:H2'	1:a:444:C:C6	2.53	0.43
1:a:756:U:H2'	1:a:757:G:C8	2.54	0.43
1:a:844:C:H2'	1:a:845:G:C8	2.53	0.43
1:a:1017:G:H3'	1:a:1018:A:H8	1.84	0.43
1:a:1297:C:H5''	16:p:13:LYS:NZ	2.34	0.43
1:a:1564:C:C2	1:a:1565:G:C8	3.07	0.43
1:a:1853:G:H2'	1:a:1854:G:H8	1.83	0.43
5:e:196:LEU:HD23	5:e:196:LEU:HA	1.90	0.43
13:m:116:LEU:HD23	13:m:116:LEU:HA	1.87	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:n:58:LEU:HD13	14:n:65:VAL:HG22	2.00	0.43
15:o:85:LYS:HZ2	15:o:87:ASP:CG	2.23	0.43
18:r:82:LEU:HB3	18:r:84:ARG:HH11	1.82	0.43
19:s:6:ASP:OD1	19:s:6:ASP:N	2.51	0.43
1:A:10:G:H2'	1:A:11:G:H8	1.84	0.43
1:A:734:C:H2'	1:A:735:U:O4'	2.19	0.43
1:A:794:U:C1'	18:R:92:ARG:HH12	2.31	0.43
1:A:911:G:H21	1:A:913:A:H61	1.65	0.43
1:A:1246:C:H2'	1:A:1247:C:C6	2.53	0.43
1:A:1495:G:H2'	1:A:1496:A:C8	2.53	0.43
1:A:1751:G:H2'	1:A:1752:G:C8	2.53	0.43
1:A:1880:G:H2'	1:A:1881:G:H8	1.83	0.43
1:A:2059:G:H2'	1:A:2060:G:C8	2.54	0.43
1:A:2185:C:OP2	1:A:2186:C:C5	2.72	0.43
1:A:2484:G:H3'	1:A:2487:C:N4	2.33	0.43
1:A:2533:C:H2'	1:A:2534:U:C6	2.53	0.43
15:O:37:GLY:HA2	15:O:38:ASN:HA	1.60	0.43
25:Y:6:VAL:O	25:Y:34:GLU:HA	2.19	0.43
1:a:345:G:C2	1:a:365:G:H4'	2.54	0.43
1:a:463:C:H2'	1:a:464:G:C8	2.54	0.43
1:a:545:G:H2'	1:a:546:G:H8	1.84	0.43
1:a:717:A:H5'	1:a:719:C:OP2	2.19	0.43
1:a:776:G:O4'	3:c:208:LYS:NZ	2.37	0.43
1:a:955:A:H2'	1:a:958:C:C5	2.54	0.43
1:a:1344:C:H2'	1:a:1345:G:C8	2.54	0.43
1:a:1387:U:H5'	19:s:57:LEU:HB3	2.00	0.43
1:a:1418:U:C2	1:a:1419:A:C8	3.07	0.43
1:a:1798:C:H2'	1:a:1799:U:O4'	2.19	0.43
1:a:1855:G:N3	3:c:254:THR:OG1	2.51	0.43
1:a:1938:A:H2'	1:a:1939:PSU:H4'	2.00	0.43
1:a:2216:G:H2'	1:a:2217:C:C6	2.52	0.43
1:a:2323:A:N1	6:f:47:LYS:HD3	2.33	0.43
1:a:2702:C:OP2	1:a:2702:C:H6	2.02	0.43
2:b:39:A:C2	2:b:44:G:C2	3.07	0.43
4:d:105:THR:OG1	4:d:199:ARG:NH2	2.52	0.43
22:v:36:ILE:HA	22:v:60:PHE:HA	2.01	0.43
24:x:54:LYS:HE2	24:x:54:LYS:HB3	1.80	0.43
31:9:19:ARG:HG3	31:9:20:HIS:CE1	2.54	0.43
1:A:70:A:OP1	1:A:110:U:O2'	2.31	0.43
1:A:332:G:H2'	1:A:333:G:C8	2.54	0.43
1:A:728:G:H2'	1:A:729:G:H8	1.84	0.43

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:999:G:H5''	12:L:13:GLN:HB3	1.99	0.43
1:A:1277:G:H2'	1:A:1278:G:C8	2.51	0.43
1:A:1687:C:H3'	1:A:1688:A:H8	1.83	0.43
1:A:2136:A:H3'	1:A:2137:G:C8	2.53	0.43
1:A:2575:U:H4'	10:J:27:GLY:O	2.19	0.43
1:A:2804:C:H3'	1:A:2804:C:OP2	2.18	0.43
4:D:14:ILE:HD11	4:D:173:VAL:HG11	2.00	0.43
5:E:153:SER:O	5:E:190:GLU:N	2.51	0.43
10:J:12:ASP:OD2	10:J:85:VAL:HG13	2.19	0.43
12:L:31:ASP:HA	12:L:134:ARG:HH11	1.84	0.43
18:R:25:ARG:HB2	18:R:25:ARG:HH11	1.83	0.43
21:U:19:ARG:HB2	21:U:19:ARG:HE	1.53	0.43
23:W:39:LYS:HB3	23:W:39:LYS:HE2	1.88	0.43
1:a:119:G:H1'	1:a:129:G:N2	2.34	0.43
1:a:831:A:N6	3:c:229:VAL:HG11	2.34	0.43
1:a:1177:G:N3	1:a:1178:A:C8	2.87	0.43
1:a:1412:A:OP1	23:w:3:LYS:NZ	2.49	0.43
1:a:1478:C:H2'	1:a:1479:U:C6	2.54	0.43
1:a:1687:C:H2'	1:a:1688:A:H8	1.83	0.43
1:a:1716:A:H5''	1:a:1717:C:OP2	2.19	0.43
1:a:2404:A:H2'	1:a:2405:A:O4'	2.19	0.43
1:a:2588:G:H2'	27:5:3:LYS:HZ1	1.83	0.43
1:a:2708:U:H2'	1:a:2709:G:C8	2.54	0.43
1:a:2764:G:OP1	1:a:2764:G:N2	2.47	0.43
34:a:6164:HOH:O	9:i:108:PRO:HB2	2.18	0.43
6:f:77:ILE:HG22	6:f:80:PHE:H	1.84	0.43
7:g:94:TYR:HA	7:g:106:THR:O	2.19	0.43
13:m:62:ALA:O	13:m:66:VAL:HG23	2.19	0.43
1:A:459:A:H2'	1:A:460:C:O4'	2.19	0.42
1:A:737:G:H2'	1:A:738:C:C6	2.54	0.42
1:A:816:G:H2'	1:A:817:G:H8	1.83	0.42
1:A:1007:G:O2'	1:A:2508:C:O2'	2.36	0.42
1:A:1478:C:H2'	1:A:1479:U:O4'	2.19	0.42
1:A:1646:C:H2'	1:A:1647:G:H8	1.84	0.42
1:A:1867:C:H2'	1:A:1868:C:C6	2.54	0.42
1:A:2164:C:H2'	1:A:2165:C:C6	2.54	0.42
1:A:2722:C:H2'	1:A:2723:A:C8	2.53	0.42
1:A:2786:C:OP1	4:D:164:ARG:NE	2.51	0.42
5:E:34:TRP:CE3	11:K:8:PRO:HB3	2.54	0.42
10:J:64:ARG:HH21	10:J:100:GLY:HA3	1.84	0.42
17:Q:37:VAL:HG22	17:Q:57:VAL:HG23	2.00	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:T:14:LEU:HD13	20:T:24:VAL:HG22	2.01	0.42
1:a:85:C:H4'	1:a:102:U:H1'	1.99	0.42
1:a:152:G:H2'	1:a:153:C:C6	2.54	0.42
1:a:281:G:C2	1:a:282:G:C5	3.07	0.42
1:a:900:G:H2'	1:a:901:G:O4'	2.19	0.42
1:a:1027:A:N3	1:a:2059:G:H1'	2.33	0.42
1:a:1284:G:H2'	1:a:1285:G:O4'	2.18	0.42
1:a:1355:G:N2	1:a:1657:C:H5'	2.28	0.42
1:a:1634:C:H2'	1:a:1635:C:C6	2.48	0.42
1:a:1939:PSU:O2'	1:a:1940:A:O5'	2.29	0.42
1:a:2118:U:H2'	1:a:2119:C:C6	2.54	0.42
1:a:2470:G:H21	1:a:2471:A:H61	1.67	0.42
1:a:2715:C:H2'	1:a:2716:C:C6	2.53	0.42
1:a:2899:C:H3'	1:a:2900:G:H8	1.84	0.42
3:c:254:THR:HG23	3:c:255:LYS:HG3	2.01	0.42
4:d:118:LYS:HE3	4:d:118:LYS:HB2	1.82	0.42
1:A:174:U:C2	1:A:175:G:C8	3.08	0.42
1:A:739:C:H2'	1:A:740:C:H6	1.83	0.42
1:A:1002:A:OP2	12:L:77:LYS:HG3	2.20	0.42
2:B:9:G:H2'	2:B:10:C:H6	1.84	0.42
2:B:38:C:O2	2:B:48:A:H1'	2.19	0.42
6:F:76:SER:HA	6:F:83:ARG:HA	2.00	0.42
21:U:8:TYR:HA	21:U:62:PRO:HD3	2.01	0.42
25:Y:7:LYS:HE3	25:Y:9:VAL:HG12	2.00	0.42
1:a:84:G:OP2	20:t:9:LYS:HB2	2.19	0.42
1:a:711:C:H2'	1:a:712:C:H6	1.85	0.42
1:a:795:G:H1	18:r:90:ARG:NH1	2.18	0.42
1:a:2214:G:C2	1:a:2215:G:N7	2.87	0.42
1:a:2638:C:H2'	1:a:2639:G:C8	2.53	0.42
1:a:2707:C:H2'	1:a:2708:U:C6	2.55	0.42
12:l:35:VAL:HG13	12:l:130:LYS:HB3	2.01	0.42
12:l:135:ASP:OD2	12:l:137:TYR:HD2	2.02	0.42
13:m:45:ARG:HD3	13:m:97:VAL:HG21	2.01	0.42
1:A:705:C:H2'	1:A:706:C:C6	2.54	0.42
1:A:1147:U:H2'	1:A:1148:C:H6	1.82	0.42
1:A:1402:G:H2'	1:A:1403:U:O4'	2.19	0.42
1:A:1482:G:N2	1:A:1604:C:C2	2.87	0.42
1:A:1784:G:H5''	15:O:95:ARG:HD3	2.01	0.42
1:A:1852:A:H2'	1:A:1853:G:H8	1.84	0.42
1:A:2228:G:H2'	1:A:2229:A:C2	2.54	0.42
1:A:2813:G:H2'	1:A:2814:C:C6	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:C:53:PHE:C	3:C:218:ARG:HB2	2.44	0.42
6:F:102:PHE:HA	6:F:105:LYS:NZ	2.32	0.42
7:G:117:PRO:HG3	7:G:123:PHE:CE2	2.53	0.42
8:H:69:LYS:HE2	8:H:69:LYS:HB2	1.89	0.42
9:I:107:LEU:HD22	9:I:107:LEU:HA	1.86	0.42
1:a:383:A:H3'	1:a:384:G:H8	1.84	0.42
1:a:485:U:H5''	29:7:41:ARG:NH1	2.33	0.42
1:a:525:G:C4	1:a:527:A:OP2	2.72	0.42
1:a:752:A:N6	1:a:773:G:H1'	2.34	0.42
1:a:1008:U:H2'	1:a:1009:C:C6	2.54	0.42
1:a:1790:A:O2'	1:a:2727:G:O2'	2.36	0.42
1:a:2369:U:H5'	22:v:20:ARG:NH1	2.35	0.42
1:a:2565:G:H5''	1:a:2566:U:OP2	2.19	0.42
1:a:2642:G:H2'	1:a:2643:G:C8	2.55	0.42
3:c:52:ARG:HD2	3:c:250:TRP:CH2	2.54	0.42
3:c:72:LYS:NZ	3:c:101:GLU:OE2	2.35	0.42
4:d:52:LEU:HB2	4:d:77:ILE:HD12	2.01	0.42
5:e:53:THR:HG23	5:e:55:GLY:H	1.84	0.42
16:p:16:LYS:HE2	16:p:16:LYS:HB3	1.83	0.42
17:q:15:GLU:O	17:q:18:LEU:HB2	2.19	0.42
1:A:425:G:H2'	1:A:426:G:O4'	2.18	0.42
1:A:718:C:OP2	11:K:33:ARG:NH2	2.52	0.42
1:A:776:G:OP1	3:C:12:SER:HB2	2.19	0.42
1:A:1373:C:H2'	1:A:1374:G:C8	2.54	0.42
1:A:1546:G:O2'	3:C:100:GLY:O	2.23	0.42
1:A:1913:G:H2'	1:A:1914:C:O4'	2.20	0.42
1:A:2100:C:H2'	1:A:2101:U:C6	2.53	0.42
1:A:2315:G:H1'	6:F:132:ASN:HB2	2.01	0.42
1:A:2326:C:H2'	1:A:2327:G:C8	2.54	0.42
1:A:2459:G:H1'	34:A:5263:HOH:O	2.19	0.42
1:A:2497:G:H5'	12:L:46:GLN:HG2	2.01	0.42
9:I:31:ALA:HB2	9:I:106:MET:HB2	2.00	0.42
13:M:98:LEU:O	13:M:112:ALA:HA	2.20	0.42
15:O:108:ARG:NH1	15:O:109:GLU:HG3	2.35	0.42
16:P:51:LYS:HA	16:P:54:LYS:HD3	2.02	0.42
18:R:75:TYR:CZ	18:R:104:THR:HG21	2.54	0.42
23:W:17:SER:HB3	23:W:38:SER:HG	1.85	0.42
23:W:17:SER:HB3	23:W:38:SER:OG	2.18	0.42
26:Z:16:CYS:HA	26:Z:33:VAL:HG23	2.00	0.42
31:4:3:VAL:HG22	31:4:35:ARG:HB3	2.02	0.42
1:a:211:A:N6	1:a:221:G:H1'	2.30	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:442:A:H2'	1:a:443:C:C6	2.55	0.42
1:a:1004:A:H2'	1:a:1005:A:C8	2.55	0.42
1:a:1387:U:C4	1:a:1441:A:H2	2.37	0.42
1:a:1683:C:N4	1:a:1684:A:H62	2.17	0.42
1:a:1819:C:H2'	1:a:1820:A:O4'	2.19	0.42
1:a:1930:C:H2'	1:a:1931:C:C6	2.55	0.42
1:a:2202:U:H2'	1:a:2203:G:C8	2.54	0.42
1:a:2322:A:C2	6:f:79:ASN:HB2	2.54	0.42
1:a:2328:C:H2'	1:a:2329:C:C6	2.54	0.42
1:a:2411:G:H2'	1:a:2412:G:O4'	2.20	0.42
10:j:71:ARG:HD3	34:j:301:HOH:O	2.19	0.42
19:s:27:THR:HA	19:s:79:ALA:O	2.20	0.42
21:u:23:LYS:HB3	21:u:38:TYR:CD1	2.54	0.42
22:v:64:ASP:OD1	22:v:64:ASP:N	2.52	0.42
1:A:64:C:H2'	1:A:65:C:C6	2.53	0.42
1:A:251:A:H2'	1:A:252:C:O4'	2.20	0.42
1:A:474:U:H4'	34:A:4723:HOH:O	2.19	0.42
1:A:713:G:H2'	1:A:714:U:C6	2.54	0.42
1:A:1122:C:H5''	21:U:114:GLY:HA2	2.00	0.42
1:A:1271:G:H2'	1:A:1272:A:C8	2.55	0.42
1:A:1308:A:H2'	1:A:1309:U:C6	2.55	0.42
1:A:1311:A:H61	1:A:2035:A:H3'	1.84	0.42
1:A:1966:U:O4	1:A:2569:G:N2	2.44	0.42
1:A:2045:G:H2'	1:A:2046:G:H8	1.82	0.42
1:A:2076:A:OP1	4:D:145:LYS:NZ	2.39	0.42
1:A:2208:G:N1	1:A:2209:G:N7	2.68	0.42
1:A:2693:C:O2'	1:A:2737:C:N4	2.50	0.42
1:A:2701:U:P	1:A:2732:G:H22	2.41	0.42
1:A:2804:C:H2'	1:A:2805:G:C8	2.55	0.42
1:A:2826:C:H2'	1:A:2827:G:H8	1.85	0.42
5:E:63:LYS:HZ1	5:E:67:GLN:N	2.18	0.42
10:J:14:THR:HG21	10:J:86:ILE:HB	2.02	0.42
12:L:34:LEU:HB2	12:L:118:LEU:HD13	2.01	0.42
15:O:18:ASP:OD1	15:O:18:ASP:N	2.53	0.42
18:R:11:ARG:NE	18:R:99:ARG:O	2.49	0.42
21:U:15:PRO:HB2	21:U:19:ARG:HH21	1.84	0.42
21:U:198:LYS:HD3	21:U:202:GLU:HB3	2.00	0.42
1:a:28:A:H2'	1:a:29:U:C6	2.55	0.42
1:a:38:A:H2'	1:a:39:C:C6	2.54	0.42
1:a:93:G:H1'	34:x:202:HOH:O	2.19	0.42
1:a:143:C:H4'	19:s:38:GLU:OE2	2.20	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:321:C:H2'	1:a:322:G:O4'	2.19	0.42
1:a:495:G:O6	29:7:37:LYS:NZ	2.47	0.42
1:a:632:A:H62	1:a:644:G:N2	2.13	0.42
1:a:1210:G:H3'	1:a:1211:U:H6	1.85	0.42
1:a:1291:G:H5'	5:e:34:TRP:HZ2	1.85	0.42
1:a:1344:C:N3	1:a:1690:G:N1	2.68	0.42
1:a:1784:G:C4	1:a:1786:A:OP2	2.72	0.42
1:a:2228:G:H2'	1:a:2229:A:C2	2.54	0.42
1:a:2246:G:H2'	1:a:2247:G:C8	2.54	0.42
1:a:2593:G:H2'	1:a:2593:G:N3	2.35	0.42
1:a:2593:G:H4'	1:a:2594:G:C8	2.54	0.42
1:a:2604:G:H2'	1:a:2605:U:H6	1.84	0.42
6:f:18:GLU:OE1	6:f:22:ARG:NH1	2.52	0.42
10:j:70:LYS:HB3	10:j:70:LYS:HE2	1.78	0.42
14:n:110:LEU:HA	14:n:110:LEU:HD12	1.80	0.42
16:p:50:ARG:HH12	17:q:72:VAL:HA	1.84	0.42
16:p:103:PRO:O	16:p:107:ALA:HB2	2.20	0.42
20:t:11:ASP:HA	20:t:26:LYS:NZ	2.34	0.42
20:t:37:VAL:HG21	20:t:72:VAL:HG11	2.00	0.42
21:u:128:VAL:HG21	21:u:161:VAL:HG12	2.01	0.42
21:u:130:PRO:HA	21:u:133:ILE:HG13	2.02	0.42
1:A:26:G:H1'	1:A:540:A:H61	1.85	0.42
1:A:212:A:C4	1:A:435:G:H1'	2.55	0.42
1:A:348:A:OP2	1:A:1250:U:C4	2.72	0.42
1:A:406:G:O2'	1:A:2244:U:OP1	2.37	0.42
1:A:801:C:H2'	1:A:802:C:H6	1.84	0.42
1:A:1244:U:H1'	16:P:4:ALA:HA	2.01	0.42
1:A:1797:U:H2'	1:A:1798:C:H6	1.83	0.42
1:A:1798:C:H2'	1:A:1799:U:H6	1.85	0.42
1:A:1874:C:H5'	3:C:253:GLN:OE1	2.19	0.42
1:A:2606:C:H2'	1:A:2607:G:C8	2.54	0.42
1:A:2819:A:OP2	1:A:2900:G:C2	2.73	0.42
1:A:2902:G:H4'	1:A:2903:G:O5'	2.20	0.42
5:E:7:TYR:OH	5:E:26:ALA:O	2.37	0.42
5:E:93:LYS:HD3	5:E:93:LYS:HA	1.94	0.42
7:G:84:SER:OG	7:G:132:ARG:NH1	2.53	0.42
20:T:8:LYS:HD2	20:T:97:ARG:NH1	2.35	0.42
1:a:238:C:O2'	11:k:64:LYS:NZ	2.46	0.42
1:a:1121:C:N4	1:a:1123:A:H61	2.18	0.42
1:a:1336:C:H2'	1:a:1337:C:H6	1.85	0.42
1:a:1484:U:H2'	1:a:1485:A:C8	2.54	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1979:C:C2	1:a:1980:C:C5	3.08	0.42
1:a:2125:C:O2	1:a:2125:C:H2'	2.20	0.42
1:a:2593:G:N1	1:a:2622:C:O2'	2.51	0.42
2:b:75:G:H3'	2:b:76:G:H8	1.83	0.42
3:c:142:VAL:HA	3:c:193:VAL:HA	2.02	0.42
6:f:120:LEU:HB2	6:f:180:PHE:HA	2.02	0.42
7:g:149:ARG:HD3	7:g:164:TYR:HD1	1.84	0.42
10:j:25:LEU:HD23	10:j:25:LEU:HA	1.86	0.42
12:l:37:LEU:HB2	12:l:128:LYS:HB2	2.00	0.42
14:n:33:LYS:HB3	14:n:34:HIS:CD2	2.54	0.42
17:q:44:LYS:HE2	17:q:44:LYS:HB2	1.78	0.42
18:r:15:ARG:NH1	27:5:20:ARG:NH1	2.68	0.42
23:w:39:LYS:HB2	34:w:213:HOH:O	2.18	0.42
26:z:21:VAL:HG12	26:z:23:GLU:OE2	2.20	0.42
1:A:27:G:N2	1:A:538:A:OP2	2.52	0.42
1:A:47:G:C2	1:A:167:G:C6	3.08	0.42
1:A:259:A:OP2	1:A:284:G:C2	2.73	0.42
1:A:287:G:O2'	1:A:448:U:OP2	2.22	0.42
1:A:627:G:H2'	1:A:628:C:C6	2.54	0.42
1:A:697:C:H2'	1:A:698:G:H8	1.83	0.42
1:A:955:A:OP2	12:L:22:LYS:NZ	2.33	0.42
1:A:1286:U:O2'	1:A:1287:A:O5'	2.35	0.42
1:A:2469:U:H2'	1:A:2470:G:C8	2.55	0.42
1:A:2720:G:C2	1:A:2721:G:C8	3.08	0.42
2:B:9:G:H2'	2:B:10:C:C6	2.54	0.42
2:B:60:C:H2'	2:B:61:G:H8	1.84	0.42
7:G:61:HIS:O	7:G:65:HIS:HB2	2.20	0.42
17:Q:62:LEU:HB2	17:Q:93:GLU:HB3	2.02	0.42
1:a:114:C:H2'	1:a:115:G:O4'	2.20	0.42
1:a:505:A:O2'	1:a:507:G:H5'	2.18	0.42
1:a:516:G:H2'	1:a:517:A:C8	2.55	0.42
1:a:586:G:C6	1:a:2040:G:C6	3.07	0.42
1:a:635:C:H2'	1:a:636:G:C8	2.55	0.42
1:a:800:C:H2'	1:a:801:C:C6	2.55	0.42
1:a:811:A:H5'	3:c:210:GLY:HA2	2.01	0.42
1:a:862:C:OP2	17:q:83:ARG:CZ	2.68	0.42
1:a:967:G:H4'	1:a:2281:A:C6	2.55	0.42
1:a:1287:A:H2'	1:a:1288:A:H8	1.83	0.42
1:a:1825:U:H2'	1:a:1826:C:C6	2.53	0.42
1:a:1869:C:H4'	1:a:1870:G:H5'	2.02	0.42
1:a:2176:G:C2	1:a:2177:G:C5	3.07	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2410:U:H2'	1:a:2411:G:H8	1.81	0.42
1:a:2490:A:C8	1:a:2541:G:C6	3.06	0.42
5:e:29:ASN:N	5:e:112:MET:SD	2.89	0.42
6:f:106:LEU:HA	6:f:110:ALA:HB3	2.01	0.42
9:i:68:GLU:OE1	9:i:68:GLU:N	2.52	0.42
23:w:90:ILE:O	23:w:94:LEU:HG	2.20	0.42
25:y:51:ALA:HA	25:y:54:VAL:HG12	2.00	0.42
27:5:49:CYS:SG	27:5:50:GLY:N	2.92	0.42
1:A:116:A:N3	1:A:167:G:H1'	2.35	0.42
1:A:411:U:H2'	1:A:412:C:C6	2.55	0.42
1:A:1100:A:H2'	1:A:1101:G:O4'	2.19	0.42
1:A:1842:G:H2'	1:A:1843:A:O4'	2.19	0.42
1:A:1906:A:H2'	1:A:1907:A:C8	2.55	0.42
1:A:2103:C:H1'	34:A:5156:HOH:O	2.19	0.42
1:A:2432:C:P	30:3:34:TRP:HB3	2.59	0.42
1:A:2442:A:N3	1:A:2442:A:H2'	2.33	0.42
1:A:2775:G:H2'	1:A:2776:G:O4'	2.19	0.42
2:B:111:G:H2'	2:B:112:U:O4'	2.19	0.42
3:C:75:ILE:HG23	3:C:98:VAL:HG22	2.01	0.42
3:C:206:LEU:HA	3:C:211:ARG:NH1	2.35	0.42
13:M:64:ARG:O	13:M:68:ARG:HG3	2.20	0.42
14:N:35:ILE:HD13	14:N:101:LEU:HD12	2.01	0.42
23:W:23:LYS:O	23:W:31:GLY:N	2.53	0.42
31:4:13:LYS:HG3	31:4:28:GLU:OE2	2.20	0.42
1:a:380:G:H2'	1:a:381:A:O4'	2.19	0.42
1:a:674:G:H2'	1:a:675:C:C6	2.54	0.42
1:a:716:G:N2	1:a:717:A:N1	2.68	0.42
1:a:733:G:P	29:7:11:LYS:HZ3	2.41	0.42
1:a:784:C:H5	34:a:6920:HOH:O	2.02	0.42
1:a:1067:A:H3'	1:a:1067:A:N3	2.35	0.42
1:a:1577:C:HO2'	1:a:1578:C:P	2.41	0.42
1:a:2035:A:H2	18:r:88:ARG:HH22	1.68	0.42
1:a:2301:G:C2	1:a:2302:G:C8	3.08	0.42
1:a:2455:C:H2'	1:a:2456:G:H8	1.85	0.42
1:a:2479:C:H5''	31:9:8:LYS:NZ	2.35	0.42
1:a:2769:U:H4'	1:a:2770:A:OP1	2.20	0.42
1:a:2880:C:H2'	1:a:2881:C:O4'	2.20	0.42
2:b:34:U:O4	6:f:96:ARG:NH2	2.50	0.42
2:b:117:G:H2'	2:b:118:G:H8	1.83	0.42
3:c:28:GLU:HA	3:c:29:PRO:HD3	1.90	0.42
4:d:101:ARG:CZ	4:d:171:GLU:HB2	2.49	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
14:n:106:ARG:HG3	14:n:112:PHE:CE1	2.54	0.42
15:o:64:ARG:HB2	15:o:73:GLU:HG2	2.00	0.42
15:o:74:ARG:HB3	15:o:76:PHE:CE2	2.54	0.42
21:u:55:HIS:CG	21:u:135:GLU:OE2	2.73	0.42
23:w:86:SER:OG	23:w:89:GLU:HG2	2.19	0.42
30:8:39:LYS:HA	30:8:42:ARG:HH12	1.84	0.42
1:A:213:G:OP2	1:A:435:G:N2	2.53	0.42
1:A:563:G:C2	1:A:579:G:C6	3.08	0.42
1:A:831:A:H5'	1:A:832:G:OP1	2.20	0.42
1:A:1214:G:H2'	1:A:1215:G:H8	1.84	0.42
1:A:1399:A:C6	1:A:1424:A:C5	3.07	0.42
1:A:1499:C:O3'	1:A:1504:A:N6	2.46	0.42
1:A:1811:A:H3'	1:A:1812:C:H2'	2.01	0.42
1:A:1997:G:H2'	1:A:1998:U:C6	2.55	0.42
1:A:2049:G:H1	1:A:2058:C:N4	2.15	0.42
1:A:2157:A:H5''	1:A:2158:C:C5	2.55	0.42
1:A:2524:C:H1'	4:D:140:SER:O	2.20	0.42
1:A:2695:C:H1'	4:D:13:ARG:NH1	2.34	0.42
3:C:26:LYS:HB3	3:C:26:LYS:NZ	2.34	0.42
3:C:162:SER:O	3:C:178:PRO:HG3	2.19	0.42
14:N:59:LYS:HD2	14:N:60:GLY:H	1.83	0.42
18:R:36:LEU:HD11	18:R:47:VAL:HG12	2.01	0.42
25:Y:4:LEU:HD22	25:Y:58:VAL:HG22	2.01	0.42
27:0:49:CYS:SG	27:0:51:TYR:HB2	2.60	0.42
1:a:39:C:H2'	1:a:40:C:C6	2.55	0.42
1:a:333:G:N3	1:a:353:G:O2'	2.52	0.42
1:a:586:G:C6	1:a:2040:G:C5	3.08	0.42
1:a:625:G:N2	1:a:702:A:N7	2.62	0.42
1:a:842:C:H2'	1:a:843:C:C6	2.55	0.42
1:a:875:U:H2'	1:a:876:A:C8	2.55	0.42
1:a:899:G:H2'	1:a:900:G:C8	2.55	0.42
1:a:1185:C:O2	1:a:1189:A:O2'	2.38	0.42
1:a:1213:U:H2'	1:a:1214:G:C8	2.55	0.42
1:a:1247:C:N4	1:a:1290:G:O6	2.53	0.42
1:a:1456:G:H2'	1:a:1457:C:C6	2.54	0.42
1:a:1563:G:H4'	1:a:1603:C:O2'	2.20	0.42
1:a:1669:G:H2'	1:a:1670:G:C8	2.50	0.42
1:a:2272:C:H2'	1:a:2273:C:H6	1.84	0.42
1:a:2428:C:H2'	1:a:2429:C:H6	1.84	0.42
1:a:2631:C:OP1	4:d:152:LYS:HG2	2.20	0.42
1:a:2853:G:H2'	1:a:2854:G:H8	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:c:179:SER:O	3:c:274:ARG:HG3	2.20	0.42
13:m:78:LYS:HG2	13:m:83:ILE:HG13	2.02	0.42
23:w:26:ARG:H	23:w:26:ARG:HG2	1.71	0.42
1:A:35:G:H21	1:A:476:G:N2	2.17	0.42
1:A:199:C:H2'	1:A:200:A:H8	1.83	0.42
1:A:541:C:H5''	27:0:13:LYS:HZ3	1.81	0.42
1:A:816:G:H4'	34:A:5678:HOH:O	2.20	0.42
1:A:1226:C:H2'	1:A:1227:A:H8	1.85	0.42
1:A:1627:A:H8	1:A:1627:A:OP2	2.02	0.42
1:A:1815:A:H5''	34:A:4793:HOH:O	2.19	0.42
1:A:1937:5MU:H2'	1:A:1938:A:C8	2.55	0.42
1:A:2034:G:P	18:R:11:ARG:HH12	2.43	0.42
1:A:2037:A:C8	1:A:2038:U:C5	3.08	0.42
1:A:2208:G:C2	1:A:2209:G:C8	3.08	0.42
1:A:2431:U:H2'	1:A:2432:C:H6	1.85	0.42
2:B:77:U:H5'	21:U:19:ARG:HH12	1.85	0.42
4:D:2:LYS:HG2	4:D:200:GLU:HB2	2.01	0.42
4:D:16:ARG:NH1	4:D:173:VAL:HG13	2.34	0.42
9:I:56:ASN:HB3	9:I:59:LYS:HB2	2.02	0.42
12:L:31:ASP:O	12:L:134:ARG:NH1	2.53	0.42
20:T:83:THR:OG1	20:T:100:ALA:N	2.43	0.42
1:a:72:A:H3'	24:x:54:LYS:NZ	2.35	0.42
1:a:95:G:H4'	24:x:48:HIS:CE1	2.55	0.42
1:a:740:C:O2'	1:a:1399:A:N3	2.46	0.42
1:a:871:A:H1'	1:a:2370:G:N7	2.35	0.42
1:a:991:G:C6	1:a:1017:G:N2	2.88	0.42
1:a:1034:A:OP1	25:y:10:LYS:HG2	2.19	0.42
1:a:1035:G:OP2	25:y:11:SER:HB2	2.20	0.42
1:a:1186:U:OP2	9:i:63:THR:OG1	2.37	0.42
1:a:1410:G:H4'	1:a:1839:U:H3	1.85	0.42
1:a:2117:C:H2'	1:a:2118:U:C6	2.55	0.42
1:a:2142:G:H2'	1:a:2143:G:C8	2.55	0.42
1:a:2173:G:N3	1:a:2174:G:H1'	2.34	0.42
1:a:2208:G:N1	1:a:2209:G:N7	2.67	0.42
1:a:2467:G:C6	1:a:2468:C:N4	2.88	0.42
1:a:2570:C:H2'	1:a:2571:C:O4'	2.20	0.42
1:a:2577:A:H2'	1:a:2578:A:O4'	2.20	0.42
1:a:2667:G:O2'	1:a:2676:G:O6	2.20	0.42
1:a:2760:G:OP1	7:g:74:ASN:ND2	2.51	0.42
1:a:2863:C:H2'	1:a:2864:G:C8	2.54	0.42
2:b:21:G:C6	2:b:63:G:C6	3.08	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:m:55:ALA:HA	13:m:80:PHE:CZ	2.55	0.42
24:x:21:LEU:O	24:x:25:VAL:HG23	2.20	0.42
30:8:29:LYS:HE2	30:8:29:LYS:HB2	1.90	0.42
1:A:113:C:H2'	1:A:114:C:H6	1.85	0.41
1:A:136:G:C8	1:A:138:G:OP2	2.73	0.41
1:A:320:C:H2'	1:A:321:C:H6	1.85	0.41
1:A:424:G:OP2	23:W:10:LYS:NZ	2.53	0.41
1:A:673:G:H2'	1:A:674:G:H8	1.84	0.41
1:A:1026:A:C5	1:A:1181:G:H5''	2.55	0.41
1:A:1100:A:C6	1:A:1152:G:C6	3.08	0.41
1:A:1179:U:O4	1:A:2048:C:H1'	2.20	0.41
1:A:2087:C:N3	1:A:2088:C:C5	2.88	0.41
1:A:2234:G:H2'	1:A:2235:G:H8	1.85	0.41
1:A:2458:G:O2'	1:A:2460:A:H8	2.03	0.41
1:A:2761:A:H2'	1:A:2762:A:H8	1.85	0.41
9:I:39:ARG:NH1	34:I:301:HOH:O	2.41	0.41
10:J:1:MET:N	10:J:67:LYS:HB3	2.35	0.41
12:L:120:ILE:O	12:L:124:LYS:HG2	2.20	0.41
13:M:13:HIS:NE2	13:M:16:HIS:HB2	2.35	0.41
13:M:103:ARG:NH1	13:M:108:GLY:O	2.53	0.41
28:13:34:LEU:HD22	28:13:36:LEU:HG	2.02	0.41
1:a:327:U:C2	1:a:328:G:C8	3.07	0.41
1:a:486:A:H3'	1:a:487:C:H6	1.85	0.41
1:a:610:C:N3	11:k:33:ARG:NE	2.58	0.41
1:a:611:U:O4	1:a:717:A:H1'	2.20	0.41
1:a:732:A:N1	1:a:834:U:H1'	2.36	0.41
1:a:950:C:C2	1:a:951:U:C5	3.08	0.41
1:a:1013:G:H2'	1:a:1014:U:H6	1.83	0.41
1:a:1102:G:N2	1:a:1148:C:OP2	2.52	0.41
1:a:1199:C:H5'	16:p:76:TYR:HE2	1.84	0.41
1:a:1367:A:H2'	1:a:1368:A:O4'	2.19	0.41
1:a:1792:C:H42	1:a:1793:A:H62	1.67	0.41
1:a:1827:U:H2'	1:a:1828:C:C6	2.55	0.41
1:a:1844:G:H5''	3:c:40:THR:HG21	2.02	0.41
1:a:1942:4OC:C6	1:a:1943:G:OP2	2.68	0.41
1:a:2301:G:N3	1:a:2302:G:C8	2.88	0.41
1:a:2339:A:H2'	1:a:2340:A:C8	2.54	0.41
1:a:2826:C:C5'	13:m:99:LYS:HZ2	2.32	0.41
3:c:171:ASP:HB3	3:c:186:HIS:HE1	1.85	0.41
5:e:122:LYS:HB3	5:e:191:ARG:HA	2.02	0.41
6:f:47:LYS:HZ1	6:f:81:LYS:NZ	2.13	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:g:7:LEU:HD12	7:g:8:PRO:HD2	2.01	0.41
9:i:34:LEU:HD21	9:i:120:LEU:HB2	2.01	0.41
12:l:89:ASN:HB2	12:l:91:GLU:OE2	2.19	0.41
1:A:397:G:O2'	1:A:451:G:OP1	2.31	0.41
1:A:439:A:C8	1:A:439:A:OP2	2.73	0.41
1:A:513:C:H2'	1:A:514:G:O4'	2.20	0.41
1:A:603:C:H2'	1:A:604:C:H6	1.84	0.41
1:A:1229:G:H2'	1:A:1230:C:C6	2.55	0.41
1:A:1287:A:O2'	1:A:1288:A:O5'	2.28	0.41
1:A:1558:G:H2'	1:A:1559:C:C6	2.55	0.41
1:A:1761:G:H2'	1:A:1762:G:H8	1.85	0.41
1:A:1820:A:H2'	1:A:1821:C:C6	2.55	0.41
1:A:2068:G:H2'	1:A:2069:U:C6	2.55	0.41
1:A:2086:C:C2	1:A:2087:C:C6	3.08	0.41
1:A:2303:U:OP1	1:A:2392:C:O2'	2.36	0.41
1:A:2310:A:H2'	1:A:2311:G:O4'	2.20	0.41
1:A:2389:A:O2'	14:N:112:PHE:HB2	2.19	0.41
1:A:2485:U:H6	1:A:2485:U:OP2	2.03	0.41
1:A:2764:G:N3	1:A:2764:G:H2'	2.36	0.41
1:A:2820:A:N6	1:A:2900:G:O2'	2.52	0.41
3:C:118:VAL:H	3:C:129:ASN:HD22	1.67	0.41
4:D:18:ASP:HA	15:O:82:LEU:HD11	2.02	0.41
4:D:54:GLN:HB2	4:D:76:ARG:HG2	2.01	0.41
4:D:60:ASN:HB2	4:D:62:PRO:HD2	2.03	0.41
5:E:116:ASP:OD1	5:E:119:ARG:HD3	2.20	0.41
16:P:8:VAL:HG23	16:P:11:ARG:CZ	2.50	0.41
18:R:4:LYS:HB3	18:R:106:ILE:HD13	2.00	0.41
22:V:23:VAL:HG13	22:V:38:VAL:HG22	2.02	0.41
28:13:8:LYS:HD3	30:3:34:TRP:CE2	2.56	0.41
1:a:63:A:OP1	19:s:73:ARG:HG2	2.20	0.41
1:a:135:C:N4	1:a:136:G:O6	2.53	0.41
1:a:569:G:N2	34:a:4976:HOH:O	2.52	0.41
1:a:800:C:H2'	1:a:801:C:H6	1.85	0.41
1:a:1047:A:H2'	1:a:1048:G:O4'	2.20	0.41
1:a:1095:C:H2'	1:a:1096:A:H5'	2.01	0.41
1:a:1385:G:OP2	19:s:78:LYS:NZ	2.53	0.41
1:a:1416:C:H2'	1:a:1417:G:C8	2.55	0.41
1:a:1932:G:H2'	1:a:1933:PSU:O4'	2.19	0.41
1:a:2273:C:H2'	1:a:2274:U:H6	1.84	0.41
1:a:2407:C:H2'	1:a:2408:G:H8	1.85	0.41
1:a:2547:G:H2'	1:a:2548:G:H8	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:2705:A:H5'	1:a:2879:G:H22	1.85	0.41
1:a:2904:U:H2'	1:a:2905:C:C6	2.55	0.41
13:m:2:ARG:NH1	13:m:2:ARG:O	2.54	0.41
13:m:90:ARG:HD2	13:m:94:TYR:CD1	2.55	0.41
21:u:127:LYS:N	21:u:162:GLU:O	2.47	0.41
22:v:25:ARG:HD3	22:v:29:GLN:NE2	2.34	0.41
23:w:52:ARG:CZ	23:w:57:GLU:HG3	2.51	0.41
24:x:6:VAL:HG13	24:x:59:ARG:HH12	1.85	0.41
24:x:65:ASN:O	24:x:69:ARG:HD3	2.20	0.41
29:7:2:LYS:NZ	29:7:2:LYS:HB2	2.35	0.41
29:7:5:TRP:CZ2	29:7:7:PRO:HB3	2.55	0.41
1:A:308:U:H2'	1:A:309:C:C6	2.55	0.41
1:A:709:G:H5'	11:K:16:ARG:HB2	2.01	0.41
1:A:881:C:C2	1:A:882:A:C8	3.07	0.41
1:A:1369:U:C2'	1:A:1370:G:H5'	2.49	0.41
1:A:1686:U:O2'	1:A:1687:C:H5'	2.21	0.41
1:A:2367:C:P	22:V:25:ARG:HH22	2.42	0.41
1:A:2586:G:O2'	4:D:144:ARG:HB2	2.20	0.41
1:A:2632:C:H1'	4:D:156:MET:HB3	2.02	0.41
1:A:2761:A:H2'	1:A:2762:A:C8	2.55	0.41
2:B:87:G:N2	2:B:89:G:H3'	2.35	0.41
4:D:22:PRO:O	4:D:185:LYS:HA	2.20	0.41
6:F:36:LYS:HB3	6:F:95:ARG:HH12	1.85	0.41
8:H:40:THR:H	8:H:43:ASN:CG	2.28	0.41
12:L:10:ARG:HB3	12:L:11:LYS:HD2	2.02	0.41
13:M:47:PHE:CZ	13:M:51:LEU:HD11	2.55	0.41
26:Z:24:THR:OG1	26:Z:25:TYR:N	2.52	0.41
30:3:34:TRP:CG	30:3:35:GLN:N	2.88	0.41
1:a:162:G:OP2	1:a:162:G:H8	2.03	0.41
1:a:590:A:H1'	34:a:5774:HOH:O	2.20	0.41
1:a:594:A:C2'	17:q:78:LYS:HZ3	2.31	0.41
1:a:761:U:C2	1:a:763:A:H5''	2.55	0.41
1:a:827:G:H2'	1:a:829:A:C5	2.55	0.41
1:a:1242:G:C2	1:a:1243:U:C6	3.08	0.41
1:a:1248:G:N1	1:a:1287:A:OP2	2.53	0.41
1:a:1635:C:C2	1:a:1636:U:C5	3.07	0.41
1:a:1961:5MU:O2'	1:a:1961:5MU:C2	2.73	0.41
1:a:2543:A:N3	1:a:2670:C:O2'	2.48	0.41
1:a:2709:G:H2'	1:a:2710:U:C6	2.55	0.41
2:b:74:U:H2'	2:b:75:G:O4'	2.20	0.41
6:f:102:PHE:O	6:f:106:LEU:HB3	2.20	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
13:m:10:LEU:HB3	13:m:12:ARG:NH1	2.35	0.41
15:o:58:ASN:O	15:o:60:THR:HG23	2.20	0.41
1:A:174:U:H2'	1:A:175:G:H8	1.84	0.41
1:A:777:C:H2'	1:A:778:C:C6	2.54	0.41
1:A:1010:C:H2'	1:A:1011:G:C8	2.55	0.41
1:A:1013:G:C6	1:A:1014:U:C4	3.09	0.41
1:A:1183:G:H3'	1:A:1184:G:H8	1.85	0.41
1:A:1246:C:H2'	1:A:1247:C:H6	1.85	0.41
1:A:1736:A:H2'	1:A:1737:A:C8	2.56	0.41
1:A:2185:C:OP2	1:A:2186:C:N4	2.47	0.41
1:A:2410:U:H2'	1:A:2411:G:C8	2.55	0.41
1:A:2520:G:C4	1:A:2521:G:C8	3.09	0.41
1:A:2594:G:OP2	1:A:2595:G:OP2	2.39	0.41
1:A:2740:G:O2'	10:J:70:LYS:NZ	2.53	0.41
4:D:178:GLU:H	4:D:178:GLU:CD	2.27	0.41
9:I:66:LYS:HA	9:I:69:GLN:HB2	2.01	0.41
11:K:60:MET:SD	30:3:13:ARG:NH2	2.93	0.41
11:K:144:GLU:OE2	11:K:146:VAL:HG23	2.19	0.41
17:Q:76:LYS:HB3	17:Q:81:TYR:HB3	2.02	0.41
1:a:441:C:H2'	1:a:442:A:H8	1.85	0.41
1:a:557:A:N1	1:a:2042:A:H1'	2.34	0.41
1:a:740:C:H1'	1:a:1399:A:H2	1.85	0.41
1:a:1038:C:H2'	1:a:1039:G:C8	2.48	0.41
1:a:1973:U:H2'	1:a:1975:A:OP2	2.20	0.41
1:a:2360:U:H2'	1:a:2361:G:H8	1.84	0.41
3:c:52:ARG:HD2	3:c:250:TRP:HH2	1.85	0.41
4:d:107:THR:O	4:d:190:GLY:HA2	2.19	0.41
6:f:39:ILE:HB	6:f:92:VAL:HG13	2.02	0.41
6:f:99:MET:O	6:f:103:LEU:HG	2.20	0.41
6:f:173:LEU:HD12	6:f:180:PHE:HZ	1.84	0.41
17:q:37:VAL:HG11	17:q:40:LEU:HD23	2.02	0.41
20:t:79:CYS:HB2	20:t:81:LYS:NZ	2.35	0.41
21:u:8:TYR:HA	21:u:62:PRO:HD3	2.02	0.41
1:A:1082:G:OP2	7:G:59:ARG:NH2	2.54	0.41
1:A:1094:A:H5''	1:A:1095:C:OP2	2.20	0.41
1:A:1185:C:P	9:I:66:LYS:NZ	2.94	0.41
1:A:1346:U:H4'	1:A:1347:A:C5'	2.50	0.41
1:A:1557:A:C4	1:A:1558:G:C8	3.09	0.41
1:A:1888:G:N2	1:A:1908:C:N4	2.68	0.41
1:A:2249:G:H5''	1:A:2250:G:OP1	2.20	0.41
1:A:2474:U:H2'	1:A:2475:C:H6	1.84	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2690:C:H2'	1:A:2691:A:C8	2.55	0.41
1:A:2901:A:O2'	1:A:2903:G:N2	2.53	0.41
5:E:29:ASN:H	5:E:112:MET:HE3	1.85	0.41
8:H:43:ASN:O	8:H:47:LEU:HB2	2.20	0.41
10:J:104:ARG:NH1	10:J:122:LEU:OXT	2.50	0.41
12:L:44:ALA:HB2	12:L:70:PRO:HG3	2.02	0.41
13:M:11:ASN:O	13:M:12:ARG:HG3	2.20	0.41
1:a:109:A:H2'	1:a:110:U:H6	1.85	0.41
1:a:287:G:C2	1:a:289:G:H1'	2.56	0.41
1:a:557:A:H2'	1:a:557:A:N3	2.35	0.41
1:a:1156:G:C8	1:a:1156:G:OP2	2.73	0.41
1:a:1251:G:H2'	1:a:1252:C:C6	2.56	0.41
1:a:1452:U:C2	1:a:1453:C:C5	3.08	0.41
1:a:1469:G:H2'	1:a:1470:G:C8	2.56	0.41
1:a:1766:G:H5'	1:a:1767:A:OP2	2.21	0.41
1:a:2015:U:H4'	4:d:128:SER:OG	2.20	0.41
1:a:2086:C:H2'	1:a:2087:C:O4'	2.21	0.41
1:a:2447:A:H2'	1:a:2448:G:O4'	2.20	0.41
1:a:2556:G:H2'	1:a:2557:G:O4'	2.20	0.41
1:a:2755:C:OP2	31:9:24:TYR:OH	2.38	0.41
34:a:5400:HOH:O	3:c:238:GLY:HA3	2.19	0.41
3:c:142:VAL:HG23	3:c:193:VAL:HA	2.02	0.41
4:d:152:LYS:HB2	9:i:78:TYR:HA	2.02	0.41
5:e:95:ARG:NH2	5:e:97:TYR:OH	2.52	0.41
6:f:36:LYS:HD3	6:f:95:ARG:HH22	1.85	0.41
9:i:4:TYR:CE2	16:p:100:VAL:HG11	2.55	0.41
10:j:9:GLU:CD	10:j:18:LYS:HZ2	2.27	0.41
12:l:59:ARG:HA	21:u:180:VAL:HG23	2.03	0.41
21:u:5:LEU:HD23	21:u:6:LYS:H	1.85	0.41
21:u:171:ILE:H	21:u:171:ILE:HG13	1.61	0.41
23:w:11:ARG:HB3	23:w:11:ARG:HH11	1.86	0.41
25:y:3:ARG:HG2	25:y:38:GLU:OE2	2.21	0.41
31:9:13:LYS:HB2	31:9:27:CYS:SG	2.60	0.41
1:A:17:G:H2'	1:A:18:C:H6	1.85	0.41
1:A:605:G:H2'	1:A:606:G:C8	2.52	0.41
1:A:871:A:H1'	1:A:2370:G:N7	2.34	0.41
1:A:1063:G:H2'	1:A:1064:C:H6	1.85	0.41
1:A:1426:G:C2	1:A:1427:G:C8	3.09	0.41
1:A:1724:A:H8	1:A:1724:A:OP2	2.04	0.41
1:A:1836:U:H3	1:A:1843:A:H61	1.67	0.41
1:A:2055:A:N6	1:A:2058:C:N3	2.69	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:2126:G:C6	1:A:2208:G:C2	3.09	0.41
1:A:2343:G:H2'	1:A:2344:U:C6	2.55	0.41
1:A:2432:C:OP2	30:3:34:TRP:N	2.54	0.41
1:A:2436:C:O2	1:A:2441:G:O2'	2.38	0.41
1:A:2564:2MU:H3'	1:A:2564:2MU:H6'2	1.55	0.41
1:A:2696:U:H5''	1:A:2697:G:OP2	2.21	0.41
1:A:2874:G:H2'	1:A:2875:U:O4'	2.21	0.41
2:B:101:G:H2'	2:B:102:A:O4'	2.19	0.41
3:C:80:ALA:HB2	3:C:96:HIS:CD2	2.55	0.41
6:F:43:LEU:HD11	6:F:153:ARG:HH11	1.86	0.41
8:H:48:GLU:O	8:H:52:ARG:HB3	2.20	0.41
1:a:154:G:N1	1:a:162:G:C2	2.88	0.41
1:a:206:G:C4	1:a:207:A:C8	3.08	0.41
1:a:315:C:H2'	1:a:316:C:H6	1.85	0.41
1:a:449:A:H2'	1:a:450:A:C8	2.56	0.41
1:a:517:A:H3'	1:a:518:G:C8	2.56	0.41
1:a:886:U:H2'	1:a:887:C:O4'	2.20	0.41
1:a:899:G:H2'	1:a:900:G:H8	1.85	0.41
1:a:1068:G:O2'	1:a:1070:G:O6	2.35	0.41
1:a:1183:G:H4'	9:i:105:GLY:HA3	2.01	0.41
1:a:1190:G:C2	1:a:1191:C:C5	3.08	0.41
1:a:1368:A:C4	1:a:1369:U:C5	3.08	0.41
1:a:1526:G:H2'	1:a:1527:G:H8	1.86	0.41
1:a:2028:C:O2'	1:a:2833:A:N3	2.53	0.41
1:a:2495:C:O2	12:l:124:LYS:NZ	2.47	0.41
1:a:2543:A:C4	1:a:2544:G:C8	3.09	0.41
1:a:2545:A:H2'	1:a:2546:A:O4'	2.21	0.41
1:a:2675:G:H2'	1:a:2676:G:O4'	2.21	0.41
1:a:2840:G:OP1	4:d:76:ARG:NH2	2.53	0.41
1:a:2862:G:H2'	1:a:2863:C:C6	2.56	0.41
3:c:69:ARG:CZ	3:c:119:ALA:HB2	2.50	0.41
7:g:13:LYS:HA	7:g:14:GLY:HA2	1.57	0.41
9:i:26:LEU:O	9:i:30:ILE:HG13	2.21	0.41
21:u:110:GLY:HA3	21:u:146:ILE:HG13	2.02	0.41
30:8:26:LYS:HG2	30:8:48:PHE:HB3	2.02	0.41
1:A:406:G:C2	1:A:423:G:C6	3.09	0.41
1:A:700:A:H2'	1:A:701:A:C8	2.56	0.41
1:A:817:G:H4'	29:2:10:ARG:NH1	2.36	0.41
1:A:1001:G:H5''	1:A:1002:A:OP2	2.20	0.41
1:A:1001:G:H5''	12:L:77:LYS:HG3	2.03	0.41
1:A:1280:U:H3'	1:A:1281:G:H8	1.86	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:1352:C:H2'	1:A:1353:A:H8	1.84	0.41
1:A:1511:C:H2'	1:A:1512:G:C8	2.56	0.41
1:A:1520:G:H2'	1:A:1521:C:H6	1.84	0.41
1:A:2130:C:H2'	1:A:2131:U:C6	2.56	0.41
1:A:2239:A:H2'	1:A:2240:G:C8	2.56	0.41
1:A:2470:G:H21	1:A:2471:A:N6	2.19	0.41
1:A:2550:C:H2'	1:A:2551:C:C6	2.56	0.41
1:A:2649:U:H1'	1:A:2795:G:N2	2.36	0.41
1:A:2675:G:H2'	1:A:2676:G:O4'	2.21	0.41
1:A:2760:G:H1	1:A:2767:U:H2'	1.85	0.41
1:A:2826:C:H4'	13:M:99:LYS:NZ	2.35	0.41
6:F:112:PRO:HB3	26:Z:40:HIS:HB2	2.03	0.41
16:P:107:ALA:O	16:P:111:GLU:HG2	2.20	0.41
20:T:14:LEU:N	20:T:73:ARG:O	2.53	0.41
21:U:124:ILE:HD12	21:U:124:ILE:HA	1.95	0.41
21:U:144:LEU:HB3	21:U:174:VAL:HG21	2.03	0.41
21:U:183:LEU:HA	21:U:186:GLU:HB2	2.02	0.41
28:13:34:LEU:HD23	28:13:34:LEU:HA	1.84	0.41
1:a:464:G:H2'	1:a:465:G:H8	1.86	0.41
1:a:698:G:H2'	1:a:699:C:H6	1.84	0.41
1:a:759:G:H2'	1:a:760:G:C8	2.56	0.41
1:a:784:C:H42	1:a:806:G:H1	1.69	0.41
1:a:791:G:H2'	1:a:792:G:O4'	2.19	0.41
1:a:994:C:C2	1:a:995:G:C8	3.09	0.41
1:a:1011:G:H2'	1:a:1012:C:C6	2.56	0.41
1:a:1059:C:OP2	1:a:1060:U:OP2	2.37	0.41
1:a:1248:G:O2'	1:a:1288:A:N6	2.53	0.41
1:a:1556:A:H2'	1:a:1557:A:C8	2.56	0.41
1:a:1563:G:C6	1:a:1564:C:C4	3.09	0.41
1:a:1644:C:H2'	1:a:1645:C:H6	1.85	0.41
1:a:1654:A:H4'	34:a:6649:HOH:O	2.20	0.41
1:a:2276:C:H2'	1:a:2277:U:C6	2.56	0.41
1:a:2478:C:HO2'	12:l:123:HIS:CE1	2.38	0.41
4:d:15:PHE:CE1	4:d:20:ALA:HB2	2.56	0.41
6:f:81:LYS:HZ2	6:f:81:LYS:HB2	1.84	0.41
9:i:58:ASP:OD1	9:i:58:ASP:N	2.43	0.41
10:j:13:ASN:OD1	10:j:97:ARG:N	2.37	0.41
21:u:145:GLU:O	21:u:147:GLY:HA2	2.21	0.41
1:A:92:C:H2'	1:A:93:G:O4'	2.20	0.41
1:A:212:A:N6	1:A:401:A:H4'	2.35	0.41
1:A:343:C:H2'	1:A:344:A:C8	2.55	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:754:G:N1	1:A:772:G:H1'	2.36	0.41
1:A:844:C:OP1	5:E:60:SER:OG	2.30	0.41
1:A:922:G:H5''	21:U:149:SER:HB3	2.02	0.41
1:A:1561:C:H2'	1:A:1562:U:H6	1.86	0.41
1:A:1588:G:H3'	1:A:1589:A:H2'	2.03	0.41
1:A:1685:C:H2'	1:A:1686:U:O4'	2.19	0.41
1:A:1773:C:H2'	1:A:1774:C:H6	1.86	0.41
1:A:1783:C:H2'	1:A:1784:G:H8	1.82	0.41
1:A:1943:G:C2	1:A:1944:G:C4	3.08	0.41
3:C:65:ILE:HG13	3:C:88:ARG:NH1	2.36	0.41
4:D:103:ASP:OD1	4:D:201:THR:HA	2.21	0.41
6:F:39:ILE:O	6:F:91:ARG:HA	2.20	0.41
7:G:40:GLU:H	7:G:40:GLU:HG3	1.55	0.41
10:J:67:LYS:HE3	10:J:68:GLU:OE1	2.20	0.41
12:L:70:PRO:HA	12:L:95:ALA:HA	2.03	0.41
18:R:88:ARG:HD2	18:R:88:ARG:HA	1.79	0.41
1:a:122:G:OP1	1:a:1422:C:O2'	2.39	0.41
1:a:139:A:N3	1:a:1454:C:O2'	2.48	0.41
1:a:291:G:C2	1:a:292:G:N7	2.89	0.41
1:a:428:A:H3'	1:a:429:A:H8	1.86	0.41
1:a:557:A:H4'	1:a:558:G:H8	1.81	0.41
1:a:623:G:N2	1:a:628:C:O3'	2.53	0.41
1:a:1397:C:O2'	1:a:1618:A:N3	2.47	0.41
1:a:1586:G:H2'	1:a:1587:U:H6	1.84	0.41
1:a:1830:G:N2	1:a:1850:A:OP2	2.42	0.41
1:a:2115:G:O2'	1:a:2220:A:N1	2.46	0.41
1:a:2214:G:H2'	1:a:2214:G:N3	2.35	0.41
1:a:2245:U:H2'	1:a:2246:G:C8	2.56	0.41
1:a:2264:G:C4	1:a:2265:G:C8	3.09	0.41
1:a:2390:A:H4'	14:n:23:ARG:NH1	2.35	0.41
1:a:2458:G:H4'	1:a:2460:A:N7	2.36	0.41
1:a:2708:U:H2'	1:a:2709:G:H8	1.86	0.41
1:a:2799:U:C2	1:a:2800:C:C5	3.08	0.41
3:c:88:ARG:NH1	3:c:88:ARG:HB3	2.36	0.41
6:f:3:LEU:HD13	26:z:25:TYR:CE2	2.56	0.41
7:g:116:GLU:HA	7:g:117:PRO:HD3	1.91	0.41
17:q:71:LEU:HD23	17:q:86:GLY:HA2	2.02	0.41
20:t:44:ILE:HD13	20:t:44:ILE:H	1.85	0.41
21:u:99:TYR:HA	21:u:124:ILE:O	2.20	0.41
28:6:34:LEU:HB2	28:6:51:GLU:HB2	2.03	0.41
1:A:360:C:H4'	20:T:6:HIS:NE2	2.35	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:439:A:O2'	34:A:4447:HOH:O	2.14	0.41
1:A:795:G:OP1	1:A:2624:C:N4	2.50	0.41
1:A:796:C:C2	1:A:797:A:C8	3.09	0.41
1:A:1051:C:C2	1:A:1052:C:C5	3.09	0.41
1:A:1093:G:N2	1:A:1156:G:O2'	2.51	0.41
1:A:1102:G:H5'	1:A:1103:A:H5'	2.03	0.41
1:A:1176:U:O2	1:A:2047:C:H5''	2.21	0.41
1:A:1404:G:H21	1:A:1419:A:H62	1.67	0.41
1:A:1468:G:C6	1:A:1624:C:O2	2.74	0.41
1:A:1477:U:H2'	1:A:1478:C:H6	1.83	0.41
1:A:1828:C:H4'	3:C:257:LEU:O	2.20	0.41
1:A:1968:U:H2'	1:A:1969:C:C6	2.56	0.41
1:A:2118:U:H3	1:A:2215:G:H1	1.67	0.41
1:A:2141:A:O2'	1:A:2142:G:H5'	2.21	0.41
1:A:2250:G:H4'	1:A:2251:G:N7	2.35	0.41
1:A:2277:U:OP2	1:A:2278:A:O2'	2.38	0.41
1:A:2288:G:OP2	12:L:86:GLY:N	2.54	0.41
1:A:2366:G:H2'	1:A:2367:C:H6	1.86	0.41
1:A:2482:G:H2'	1:A:2483:C:H6	1.85	0.41
1:A:2527:C:H2'	1:A:2528:G:H8	1.86	0.41
1:A:2584:A:P	4:D:144:ARG:HB3	2.61	0.41
1:A:2601:A:H2'	1:A:2602:A:H8	1.86	0.41
1:A:2804:C:C5	1:A:2902:G:C5	3.09	0.41
2:B:16:G:N2	2:B:69:G:H1'	2.36	0.41
3:C:53:PHE:CD2	3:C:220:HIS:HA	2.56	0.41
4:D:122:PHE:HZ	4:D:155:LYS:HB2	1.85	0.41
5:E:178:PRO:HB3	5:E:198:ALA:HB1	2.03	0.41
6:F:123:ASN:OD1	6:F:123:ASN:N	2.53	0.41
7:G:11:VAL:HB	7:G:48:GLY:C	2.46	0.41
8:H:23:PRO:O	8:H:27:ARG:HG3	2.21	0.41
10:J:34:THR:OG1	10:J:35:VAL:N	2.53	0.41
14:N:10:ARG:O	14:N:14:VAL:HG22	2.21	0.41
20:T:9:LYS:HA	20:T:10:GLY:HA2	1.72	0.41
20:T:43:ASN:ND2	20:T:66:PRO:O	2.53	0.41
21:U:145:GLU:O	21:U:147:GLY:HA2	2.20	0.41
21:U:203:GLU:N	21:U:203:GLU:OE2	2.53	0.41
1:a:18:C:H2'	1:a:19:C:C6	2.56	0.41
1:a:47:G:C2	1:a:166:G:OP2	2.74	0.41
1:a:231:G:N7	30:8:5:LYS:HG2	2.36	0.41
1:a:278:G:O2'	23:w:80:LEU:HD11	2.21	0.41
1:a:289:G:N7	1:a:431:C:O2'	2.53	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:290:G:H2'	1:a:291:G:C8	2.56	0.41
1:a:290:G:C4	1:a:291:G:C8	3.08	0.41
1:a:321:C:H3'	1:a:322:G:C8	2.56	0.41
1:a:733:G:P	29:7:11:LYS:NZ	2.94	0.41
1:a:738:C:H4'	3:c:43:ARG:NH1	2.34	0.41
1:a:785:G:N1	1:a:806:G:C6	2.89	0.41
1:a:788:G:H2'	1:a:789:G:O4'	2.21	0.41
1:a:795:G:H8	1:a:797:A:OP2	2.03	0.41
1:a:911:G:H2'	1:a:912:C:C6	2.56	0.41
1:a:925:A:C4	1:a:926:G:C8	3.09	0.41
1:a:998:A:H61	1:a:1009:C:H42	1.69	0.41
1:a:1010:C:O5'	1:a:2285:A:H1'	2.21	0.41
1:a:1036:A:H5'	1:a:1203:G:OP1	2.20	0.41
1:a:1192:C:H2'	1:a:1193:C:H6	1.86	0.41
1:a:1201:A:C5	1:a:1203:G:C5	3.09	0.41
1:a:1352:C:C2	1:a:1669:G:C2	3.09	0.41
1:a:1374:G:H4'	1:a:1375:U:C5	2.56	0.41
1:a:1738:C:H2'	1:a:1739:U:O4'	2.21	0.41
1:a:2052:A:H5''	1:a:2053:A:OP1	2.19	0.41
1:a:2299:A:C8	1:a:2301:G:C8	3.08	0.41
1:a:2490:A:O5'	31:9:2:LYS:NZ	2.45	0.41
1:a:2657:G:H4'	1:a:2745:G:H1'	2.03	0.41
3:c:200:ASP:OD1	3:c:203:ASN:ND2	2.54	0.41
4:d:144:ARG:HG3	4:d:145:LYS:N	2.30	0.41
13:m:9:LYS:NZ	34:m:304:HOH:O	2.54	0.41
14:n:27:SER:O	14:n:37:ALA:HA	2.21	0.41
18:r:29:LEU:HD22	18:r:69:LEU:HD12	2.02	0.41
20:t:63:LYS:HB3	20:t:63:LYS:HE3	1.74	0.41
1:A:150:C:C2	1:A:151:C:C5	3.09	0.41
1:A:268:G:HO2'	1:A:269:G:H8	1.69	0.41
1:A:291:G:N2	1:A:395:C:C2	2.89	0.41
1:A:551:A:N6	1:A:2637:G:O2'	2.53	0.41
1:A:1094:A:N3	1:A:1094:A:H2'	2.35	0.41
1:A:1336:C:H2'	1:A:1337:C:C6	2.56	0.41
1:A:1336:C:H2'	1:A:1337:C:H6	1.86	0.41
1:A:1683:C:H2'	1:A:1684:A:H8	1.86	0.41
1:A:2230:U:O4'	23:W:52:ARG:NH2	2.54	0.41
1:A:2315:G:H2'	1:A:2316:G:H8	1.86	0.41
1:A:2583:C:O3'	4:D:146:THR:OG1	2.39	0.41
4:D:59:VAL:HG12	4:D:64:LYS:HG3	2.03	0.41
5:E:162:LEU:HD22	5:E:162:LEU:H	1.85	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
6:F:81:LYS:HB2	6:F:81:LYS:NZ	2.23	0.41
15:O:64:ARG:NH2	15:O:103:ARG:HG2	2.36	0.41
16:P:34:LYS:HA	16:P:34:LYS:HD3	1.92	0.41
18:R:17:VAL:O	18:R:20:VAL:HG12	2.20	0.41
19:S:12:VAL:HG22	19:S:29:TRP:CD2	2.56	0.41
28:13:16:CYS:O	28:13:18:ARG:HG3	2.21	0.41
1:a:194:G:N2	1:a:195:U:O4	2.36	0.41
1:a:308:U:H2'	1:a:309:C:C6	2.56	0.41
1:a:337:C:H2'	1:a:338:A:H8	1.86	0.41
1:a:818:G:H2'	1:a:819:C:C6	2.56	0.41
1:a:822:G:C5	1:a:841:G:C8	3.09	0.41
1:a:954:C:O2'	12:l:71:ASP:OD2	2.24	0.41
1:a:1209:G:H3'	34:a:6031:HOH:O	2.20	0.41
1:a:1427:G:C4	1:a:1428:G:C8	3.08	0.41
1:a:1463:C:H2'	1:a:1464:G:C8	2.56	0.41
1:a:1552:C:H2'	1:a:1553:A:O4'	2.21	0.41
1:a:1660:A:H8	1:a:1660:A:OP2	2.04	0.41
1:a:1829:U:O3'	1:a:1833:A:O2'	2.38	0.41
1:a:1859:G:N2	34:a:4980:HOH:O	2.53	0.41
1:a:2438:A:H5''	1:a:2439:C:H5	1.85	0.41
1:a:2635:G:H2'	1:a:2636:G:H8	1.86	0.41
1:a:2828:G:H2'	1:a:2829:G:H8	1.86	0.41
2:b:50:G:OP1	14:n:63:THR:OG1	2.25	0.41
5:e:127:GLU:HG3	5:e:128:ALA:H	1.84	0.41
10:j:17:ARG:HA	10:j:17:ARG:HH11	1.86	0.41
13:m:104:ARG:HD2	13:m:107:ASP:OD1	2.21	0.41
21:u:35:ARG:HD2	21:u:35:ARG:HA	1.94	0.41
1:A:406:G:H4'	1:A:2244:U:H5''	2.03	0.40
1:A:618:C:N4	1:A:619:G:O6	2.54	0.40
1:A:1368:A:C5	1:A:1369:U:C5	3.10	0.40
1:A:1529:G:H1	1:A:1552:C:H42	1.68	0.40
1:A:1945:U:O2'	1:A:1946:C:H5'	2.21	0.40
1:A:2334:A:H2'	1:A:2335:G:O4'	2.22	0.40
1:A:2637:G:H2'	1:A:2638:C:O4'	2.21	0.40
1:A:2706:G:H2'	1:A:2707:C:C6	2.56	0.40
1:A:2786:C:H2'	1:A:2787:C:C6	2.55	0.40
1:A:2815:C:C2	1:A:2816:G:N7	2.89	0.40
16:P:50:ARG:O	16:P:53:ARG:HB3	2.21	0.40
18:R:18:ARG:NH1	18:R:76:VAL:HG12	2.36	0.40
21:U:54:HIS:ND1	21:U:101:PRO:HG3	2.35	0.40
31:4:1:MET:HA	31:4:33:LYS:O	2.20	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:178:G:OP2	23:w:14:VAL:HG11	2.21	0.40
1:a:413:G:H4'	1:a:414:U:OP2	2.20	0.40
1:a:738:C:H4'	3:c:43:ARG:HH12	1.87	0.40
1:a:922:G:H5''	21:u:149:SER:CB	2.52	0.40
1:a:1024:G:H2'	1:a:1025:G:O4'	2.20	0.40
1:a:1220:U:OP2	1:a:1220:U:C6	2.74	0.40
1:a:1241:C:H2'	1:a:1242:G:H8	1.85	0.40
1:a:1314:A:H3'	1:a:1315:A:C8	2.56	0.40
1:a:1457:C:H2'	1:a:1458:A:O4'	2.21	0.40
1:a:1834:A:H4'	3:c:259:THR:HG23	2.03	0.40
1:a:2524:C:C2'	4:d:154:LYS:HZ2	2.34	0.40
1:a:2860:A:C4	1:a:2861:A:C8	3.10	0.40
4:d:52:LEU:HA	4:d:53:PRO:HD2	1.93	0.40
5:e:134:GLY:HA3	5:e:162:LEU:HD12	2.04	0.40
6:f:117:PHE:HD2	26:z:40:HIS:CE1	2.38	0.40
1:A:313:A:C5	1:A:314:G:C8	3.09	0.40
1:A:501:U:O2'	1:A:530:A:N3	2.46	0.40
1:A:1005:A:O3'	1:A:1006:C:H3'	2.22	0.40
1:A:1255:A:H4'	1:A:1256:U:H3'	2.01	0.40
1:A:1314:A:H3'	1:A:1315:A:C8	2.55	0.40
1:A:1339:C:H2'	1:A:1340:U:C6	2.52	0.40
1:A:1354:A:H5'	1:A:1355:G:OP2	2.22	0.40
1:A:1411:A:O4'	23:W:41:ARG:NH2	2.49	0.40
1:A:1525:G:H2'	1:A:1526:G:C8	2.49	0.40
1:A:1612:C:H5''	3:C:18:VAL:HG11	2.03	0.40
1:A:1824:C:H2'	1:A:1825:U:C6	2.57	0.40
1:A:2040:G:H2'	1:A:2041:A:H8	1.83	0.40
1:A:2279:A:H3'	1:A:2279:A:N3	2.36	0.40
1:A:2754:A:H5''	1:A:2755:C:OP2	2.20	0.40
2:B:87:G:C2	2:B:89:G:H5''	2.56	0.40
11:K:111:ARG:HD3	11:K:128:HIS:CD2	2.56	0.40
16:P:81:HIS:NE2	16:P:85:LYS:HD2	2.36	0.40
17:Q:75:PHE:HA	17:Q:81:TYR:O	2.21	0.40
28:13:38:LYS:HB3	28:13:49:HIS:CE1	2.56	0.40
1:a:640:A:C4	5:e:180:GLY:HA2	2.55	0.40
1:a:1058:U:H5	9:i:29:LYS:HZ1	1.66	0.40
1:a:1095:C:N3	1:a:1096:A:C8	2.89	0.40
1:a:1291:G:H5'	5:e:34:TRP:CZ2	2.56	0.40
1:a:1622:C:H2'	1:a:1623:U:C6	2.57	0.40
1:a:1675:U:O2'	1:a:2710:U:H5''	2.21	0.40
1:a:1687:C:H2'	1:a:1688:A:C8	2.56	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:1719:C:H5''	1:a:2566:U:OP1	2.22	0.40
1:a:1754:G:H1	1:a:1783:C:N4	2.19	0.40
1:a:2481:A:H2'	1:a:2482:G:O4'	2.21	0.40
1:a:2604:G:H2'	1:a:2605:U:C6	2.55	0.40
1:a:2724:U:O2'	1:a:2726:A:H5'	2.22	0.40
2:b:34:U:O2'	2:b:44:G:N7	2.45	0.40
2:b:100:A:H3'	2:b:101:G:C8	2.53	0.40
3:c:16:MET:HG2	3:c:211:ARG:HH21	1.87	0.40
4:d:52:LEU:HA	4:d:52:LEU:HD23	1.85	0.40
6:f:79:ASN:OD1	6:f:79:ASN:N	2.55	0.40
9:i:34:LEU:O	9:i:49:GLY:HA3	2.22	0.40
10:j:104:ARG:HB2	10:j:122:LEU:OXT	2.21	0.40
14:n:19:LYS:HD3	14:n:19:LYS:HA	1.86	0.40
18:r:13:SER:HB3	18:r:16:LYS:HB2	2.02	0.40
27:5:16:ARG:HH11	27:5:20:ARG:NH1	2.19	0.40
1:A:476:G:P	1:A:1294:G:H1	2.43	0.40
1:A:659:C:H2'	1:A:660:C:C6	2.56	0.40
1:A:738:C:O2'	3:C:43:ARG:NH1	2.55	0.40
1:A:844:C:C2	1:A:845:G:C8	3.09	0.40
1:A:869:U:H2'	1:A:870:G:H8	1.87	0.40
1:A:923:C:H2'	1:A:924:U:C6	2.56	0.40
1:A:1313:U:O2	1:A:1313:U:H2'	2.21	0.40
1:A:1317:G:O3'	1:A:1318:A:H4'	2.21	0.40
1:A:1360:C:H2'	1:A:1361:C:H6	1.83	0.40
1:A:1614:A:H3'	3:C:86:PRO:HG3	2.04	0.40
1:A:1723:A:H2'	1:A:1724:A:C8	2.57	0.40
1:A:1817:A:H1'	1:A:1960:A:N6	2.36	0.40
1:A:1819:C:C2	1:A:1820:A:C8	3.09	0.40
1:A:1823:G:O6	1:A:1859:G:N2	2.55	0.40
1:A:2769:U:H1'	1:A:2770:A:H5''	2.04	0.40
3:C:10:THR:OG1	3:C:13:ARG:HG2	2.22	0.40
3:C:95:LEU:HD23	3:C:95:LEU:HA	1.93	0.40
3:C:226:MET:SD	3:C:231:HIS:HB2	2.61	0.40
4:D:103:ASP:CG	4:D:201:THR:HA	2.46	0.40
17:Q:62:LEU:HD11	17:Q:95:LEU:HB2	2.03	0.40
26:Z:2:LYS:HB2	26:Z:6:HIS:CD2	2.50	0.40
1:a:267:C:O2'	1:a:268:G:H5'	2.21	0.40
1:a:382:U:C2	1:a:383:A:C8	3.10	0.40
1:a:465:G:C4	1:a:466:G:C8	3.09	0.40
1:a:499:G:OP2	1:a:499:G:H8	2.03	0.40
1:a:742:G:O5'	1:a:1426:G:H4'	2.21	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:a:757:G:H1	1:a:768:C:H42	1.70	0.40
1:a:1023:G:H2'	1:a:1024:G:O4'	2.21	0.40
1:a:1093:G:H2'	1:a:1094:A:OP2	2.22	0.40
1:a:1140:U:C2	1:a:1142:A:OP2	2.74	0.40
1:a:1216:G:C4	1:a:1217:G:C8	3.09	0.40
1:a:1595:C:H2'	1:a:1596:C:C6	2.57	0.40
1:a:1618:A:H2'	1:a:1619:A:H8	1.82	0.40
1:a:2020:G:HO2'	1:a:2737:C:HO2'	1.66	0.40
1:a:2164:C:H2'	1:a:2165:C:C6	2.56	0.40
1:a:2239:A:H2'	34:a:5036:HOH:O	2.21	0.40
1:a:2334:A:N6	1:a:2345:A:N7	2.69	0.40
1:a:2491:G:H5'	1:a:2548:G:N2	2.36	0.40
1:a:2544:G:H2'	1:a:2545:A:C8	2.56	0.40
1:a:2729:U:H2'	1:a:2730:G:C8	2.54	0.40
1:a:2750:G:H2'	1:a:2751:A:H8	1.86	0.40
1:a:2762:A:OP2	1:a:2766:A:N6	2.54	0.40
1:a:2796:G:H2'	1:a:2797:C:C6	2.56	0.40
2:b:35:U:OP2	2:b:36:C:OP2	2.39	0.40
9:i:107:LEU:HD23	9:i:108:PRO:HD2	2.02	0.40
12:l:57:HIS:CD2	12:l:116:GLU:HG2	2.56	0.40
17:q:2:PHE:CE1	17:q:41:GLY:HA3	2.57	0.40
23:w:23:LYS:NZ	23:w:27:GLU:HB3	2.36	0.40
28:6:9:LEU:HD22	28:6:51:GLU:HG3	2.04	0.40
1:A:642:G:OP1	5:E:205:ARG:NH1	2.54	0.40
1:A:911:G:H21	1:A:913:A:N6	2.19	0.40
1:A:1067:A:H5'	1:A:1068:G:OP2	2.21	0.40
1:A:1085:G:N1	1:A:1163:G:C6	2.89	0.40
1:A:1142:A:H3'	1:A:1143:U:H5''	2.03	0.40
1:A:1207:C:H2'	1:A:1208:G:H8	1.85	0.40
1:A:1826:C:H1'	3:C:255:LYS:HZ2	1.86	0.40
1:A:2273:C:C2	1:A:2274:U:C5	3.10	0.40
1:A:2367:C:H1'	22:V:39:ARG:HH21	1.85	0.40
1:A:2652:G:C6	1:A:2788:A:C2	3.09	0.40
1:A:2814:C:C2	1:A:2815:C:C5	3.09	0.40
1:A:2833:A:OP1	4:D:113:PHE:HB2	2.22	0.40
1:A:2875:U:P	15:O:119:LYS:NZ	2.94	0.40
34:A:5111:HOH:O	25:Y:14:GLY:HA3	2.21	0.40
2:B:28:C:H2'	2:B:29:A:H8	1.87	0.40
12:L:21:THR:HG23	12:L:98:LYS:HB2	2.02	0.40
16:P:10:ARG:HG2	16:P:14:HIS:NE2	2.36	0.40
18:R:3:ALA:N	18:R:107:LEU:O	2.54	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
21:U:70:LEU:HD13	21:U:71:VAL:N	2.37	0.40
22:V:65:GLY:HA2	22:V:82:ARG:O	2.22	0.40
1:a:19:C:H2'	1:a:20:C:C6	2.56	0.40
1:a:108:G:H2'	1:a:109:A:C8	2.56	0.40
1:a:336:G:H5'	1:a:355:A:O2'	2.21	0.40
1:a:346:A:OP2	5:e:169:ASN:ND2	2.55	0.40
1:a:507:G:O2'	1:a:532:A:N1	2.47	0.40
1:a:1177:G:OP2	1:a:2527:C:H4'	2.22	0.40
1:a:1199:C:H5'	16:p:76:TYR:CE2	2.57	0.40
1:a:1329:G:C4	1:a:1331:G:OP2	2.75	0.40
1:a:1468:G:N1	1:a:1624:C:N3	2.69	0.40
1:a:1711:A:H61	1:a:2018:C:N4	2.18	0.40
1:a:1852:A:H2'	1:a:1853:G:O4'	2.21	0.40
1:a:2011:G:H2'	1:a:2012:C:O4'	2.22	0.40
1:a:2193:A:H1'	1:a:2194:U:C6	2.56	0.40
1:a:2355:C:O2'	1:a:2385:G:H4'	2.21	0.40
1:a:2478:C:H2'	1:a:2479:C:C6	2.56	0.40
1:a:2481:A:C2	1:a:2494:G:C8	3.09	0.40
1:a:2755:C:H2'	1:a:2756:C:H6	1.86	0.40
11:k:113:LYS:HG3	11:k:129:ALA:HB3	2.03	0.40
18:r:12:ILE:HD13	18:r:13:SER:N	2.36	0.40
1:A:331:G:N2	1:A:333:G:H3'	2.36	0.40
1:A:509:A:O4'	20:T:48:ALA:HB1	2.22	0.40
1:A:639:G:H1'	5:E:44:ARG:HB2	2.04	0.40
1:A:718:C:H2'	1:A:719:C:H6	1.85	0.40
1:A:775:G:OP2	1:A:775:G:H8	2.03	0.40
1:A:917:A:OP1	12:L:6:ARG:NH2	2.54	0.40
1:A:1032:C:O2'	1:A:1047:A:H4'	2.21	0.40
1:A:1308:A:C5	1:A:1309:U:C4	3.09	0.40
1:A:1336:C:C2	1:A:1337:C:C5	3.09	0.40
1:A:2298:A:H4'	1:A:2299:A:O4'	2.22	0.40
1:A:2331:G:N2	14:N:3:ARG:HA	2.37	0.40
1:A:2455:C:O3'	5:E:67:GLN:NE2	2.55	0.40
1:A:2484:G:N2	1:A:2491:G:O6	2.54	0.40
1:A:2757:G:C6	1:A:2774:G:C6	3.10	0.40
1:A:2896:G:H2'	1:A:2897:U:H6	1.87	0.40
2:B:73:A:H3'	2:B:74:U:H6	1.87	0.40
3:C:24:ILE:HG23	3:C:83:GLU:HA	2.04	0.40
11:K:36:LYS:H	11:K:36:LYS:HG3	1.69	0.40
12:L:44:ALA:HA	12:L:47:ILE:HD12	2.03	0.40
15:O:90:GLN:OE1	15:O:91:ARG:N	2.55	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
15:O:90:GLN:OE1	15:O:121:ILE:HD11	2.22	0.40
21:U:23:LYS:HB3	21:U:38:TYR:HD2	1.85	0.40
21:U:59:LEU:O	21:U:66:SER:HA	2.21	0.40
22:V:37:LEU:HD21	22:V:61:ALA:HB2	2.03	0.40
23:W:50:ARG:HG2	23:W:59:THR:HG22	2.04	0.40
1:a:28:A:H1'	1:a:538:A:C2	2.57	0.40
1:a:441:C:H2'	1:a:442:A:C8	2.56	0.40
1:a:647:G:OP2	11:k:108:LYS:HD2	2.22	0.40
1:a:879:G:C2	1:a:880:U:C4	3.09	0.40
1:a:1068:G:H1'	1:a:1070:G:C6	2.56	0.40
1:a:1229:G:P	25:y:30:ARG:NH1	2.94	0.40
1:a:1259:A:H62	1:a:1281:G:H21	1.69	0.40
1:a:1411:A:H3'	1:a:1412:A:C8	2.56	0.40
1:a:1468:G:C2	1:a:1469:G:C5	3.10	0.40
1:a:1496:A:N3	1:a:1576:G:H1'	2.37	0.40
1:a:1708:G:H2'	1:a:1709:C:H6	1.86	0.40
1:a:1967:G:H2'	1:a:1967:G:N3	2.36	0.40
1:a:2428:C:C2	1:a:2429:C:C5	3.09	0.40
1:a:2558:U:H4'	1:a:2578:A:C2	2.56	0.40
10:j:15:GLY:O	10:j:47:ILE:HG12	2.22	0.40
24:x:17:SER:O	24:x:21:LEU:HG	2.21	0.40

There are no symmetry-related clashes.

5.3 Torsion angles ⓘ

5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
3	C	273/276 (99%)	265 (97%)	8 (3%)	0	100	100
3	c	273/276 (99%)	267 (98%)	6 (2%)	0	100	100
4	D	202/206 (98%)	191 (95%)	11 (5%)	0	100	100
4	d	202/206 (98%)	193 (96%)	9 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	E	201/210 (96%)	198 (98%)	3 (2%)	0	100	100
5	e	201/210 (96%)	196 (98%)	5 (2%)	0	100	100
6	F	179/182 (98%)	171 (96%)	8 (4%)	0	100	100
6	f	179/182 (98%)	171 (96%)	8 (4%)	0	100	100
7	G	172/180 (96%)	166 (96%)	6 (4%)	0	100	100
7	g	172/180 (96%)	167 (97%)	5 (3%)	0	100	100
8	H	71/148 (48%)	71 (100%)	0	0	100	100
8	h	60/148 (40%)	60 (100%)	0	0	100	100
9	I	138/140 (99%)	136 (99%)	2 (1%)	0	100	100
9	i	138/140 (99%)	135 (98%)	3 (2%)	0	100	100
10	J	120/122 (98%)	118 (98%)	2 (2%)	0	100	100
10	j	120/122 (98%)	113 (94%)	7 (6%)	0	100	100
11	K	147/150 (98%)	140 (95%)	7 (5%)	0	100	100
11	k	147/150 (98%)	140 (95%)	7 (5%)	0	100	100
12	L	139/141 (99%)	134 (96%)	4 (3%)	1 (1%)	18	54
12	l	139/141 (99%)	134 (96%)	4 (3%)	1 (1%)	18	54
13	M	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
13	m	116/118 (98%)	114 (98%)	2 (2%)	0	100	100
14	N	108/112 (96%)	107 (99%)	1 (1%)	0	100	100
14	n	108/112 (96%)	104 (96%)	4 (4%)	0	100	100
15	O	129/146 (88%)	125 (97%)	4 (3%)	0	100	100
15	o	129/146 (88%)	122 (95%)	7 (5%)	0	100	100
16	P	114/118 (97%)	112 (98%)	2 (2%)	0	100	100
16	p	114/118 (97%)	114 (100%)	0	0	100	100
17	Q	99/101 (98%)	96 (97%)	3 (3%)	0	100	100
17	q	99/101 (98%)	95 (96%)	4 (4%)	0	100	100
18	R	110/113 (97%)	107 (97%)	3 (3%)	0	100	100
18	r	110/113 (97%)	109 (99%)	1 (1%)	0	100	100
19	S	93/96 (97%)	92 (99%)	1 (1%)	0	100	100
19	s	93/96 (97%)	91 (98%)	2 (2%)	0	100	100
20	T	105/107 (98%)	100 (95%)	5 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	t	105/107 (98%)	100 (95%)	5 (5%)	0	100	100
21	U	201/206 (98%)	193 (96%)	7 (4%)	1 (0%)	24	60
21	u	198/206 (96%)	191 (96%)	7 (4%)	0	100	100
22	V	75/78 (96%)	72 (96%)	3 (4%)	0	100	100
22	v	75/78 (96%)	73 (97%)	2 (3%)	0	100	100
23	W	95/98 (97%)	93 (98%)	2 (2%)	0	100	100
23	w	95/98 (97%)	94 (99%)	1 (1%)	0	100	100
24	X	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
24	x	68/72 (94%)	68 (100%)	0	0	100	100
25	Y	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
25	y	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
26	Z	43/71 (61%)	40 (93%)	3 (7%)	0	100	100
26	z	48/71 (68%)	46 (96%)	2 (4%)	0	100	100
27	0	57/60 (95%)	52 (91%)	5 (9%)	0	100	100
27	5	57/60 (95%)	54 (95%)	3 (5%)	0	100	100
28	13	51/54 (94%)	51 (100%)	0	0	100	100
28	6	51/54 (94%)	50 (98%)	1 (2%)	0	100	100
29	2	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
29	7	46/49 (94%)	45 (98%)	1 (2%)	0	100	100
30	3	62/65 (95%)	61 (98%)	1 (2%)	0	100	100
30	8	62/65 (95%)	59 (95%)	3 (5%)	0	100	100
31	4	35/37 (95%)	35 (100%)	0	0	100	100
31	9	35/37 (95%)	35 (100%)	0	0	100	100
All	All	6603/7032 (94%)	6403 (97%)	197 (3%)	3 (0%)	100	100

All (3) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
12	l	59	ARG
12	L	59	ARG
21	U	53	ILE

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	
3	C	214/218 (98%)	200 (94%)	14 (6%)	15	40
3	c	214/218 (98%)	192 (90%)	22 (10%)	7	25
4	D	164/166 (99%)	144 (88%)	20 (12%)	5	21
4	d	164/166 (99%)	140 (85%)	24 (15%)	3	16
5	E	160/166 (96%)	146 (91%)	14 (9%)	9	32
5	e	160/166 (96%)	141 (88%)	19 (12%)	5	21
6	F	144/156 (92%)	129 (90%)	15 (10%)	7	25
6	f	144/156 (92%)	126 (88%)	18 (12%)	4	20
7	G	144/148 (97%)	136 (94%)	8 (6%)	19	43
7	g	144/148 (97%)	133 (92%)	11 (8%)	12	36
8	H	55/124 (44%)	48 (87%)	7 (13%)	4	20
8	h	49/124 (40%)	44 (90%)	5 (10%)	7	25
9	I	119/119 (100%)	105 (88%)	14 (12%)	5	21
9	i	119/119 (100%)	104 (87%)	15 (13%)	4	20
10	J	100/100 (100%)	86 (86%)	14 (14%)	3	17
10	j	100/100 (100%)	88 (88%)	12 (12%)	5	21
11	K	115/116 (99%)	99 (86%)	16 (14%)	3	17
11	k	115/116 (99%)	102 (89%)	13 (11%)	5	22
12	L	111/111 (100%)	99 (89%)	12 (11%)	6	24
12	l	111/111 (100%)	102 (92%)	9 (8%)	11	34
13	M	101/101 (100%)	91 (90%)	10 (10%)	7	27
13	m	101/101 (100%)	91 (90%)	10 (10%)	7	27
14	N	87/88 (99%)	74 (85%)	13 (15%)	3	16
14	n	87/88 (99%)	79 (91%)	8 (9%)	8	30
15	O	115/127 (91%)	100 (87%)	15 (13%)	4	19
15	o	115/127 (91%)	101 (88%)	14 (12%)	5	21

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
16	P	93/94 (99%)	84 (90%)	9 (10%)	8	27
16	p	93/94 (99%)	85 (91%)	8 (9%)	10	33
17	Q	81/82 (99%)	71 (88%)	10 (12%)	4	20
17	q	81/82 (99%)	67 (83%)	14 (17%)	2	13
18	R	90/92 (98%)	79 (88%)	11 (12%)	5	21
18	r	90/92 (98%)	77 (86%)	13 (14%)	3	17
19	S	77/78 (99%)	72 (94%)	5 (6%)	15	40
19	s	77/78 (99%)	71 (92%)	6 (8%)	11	35
20	T	86/88 (98%)	78 (91%)	8 (9%)	8	29
20	t	86/88 (98%)	80 (93%)	6 (7%)	14	38
21	U	169/179 (94%)	155 (92%)	14 (8%)	10	33
21	u	166/179 (93%)	145 (87%)	21 (13%)	4	20
22	V	61/62 (98%)	56 (92%)	5 (8%)	10	34
22	v	61/62 (98%)	57 (93%)	4 (7%)	15	40
23	W	79/83 (95%)	76 (96%)	3 (4%)	29	51
23	w	79/83 (95%)	71 (90%)	8 (10%)	7	26
24	X	65/67 (97%)	58 (89%)	7 (11%)	6	24
24	x	65/67 (97%)	60 (92%)	5 (8%)	12	35
25	Y	51/52 (98%)	46 (90%)	5 (10%)	7	27
25	y	51/52 (98%)	47 (92%)	4 (8%)	11	35
26	Z	39/63 (62%)	37 (95%)	2 (5%)	21	45
26	z	43/63 (68%)	39 (91%)	4 (9%)	8	29
27	0	51/52 (98%)	44 (86%)	7 (14%)	3	17
27	5	51/52 (98%)	46 (90%)	5 (10%)	7	27
28	13	51/52 (98%)	44 (86%)	7 (14%)	3	17
28	6	51/52 (98%)	45 (88%)	6 (12%)	5	21
29	2	41/42 (98%)	39 (95%)	2 (5%)	22	46
29	7	41/42 (98%)	36 (88%)	5 (12%)	5	21
30	3	54/55 (98%)	50 (93%)	4 (7%)	13	36
30	8	54/55 (98%)	52 (96%)	2 (4%)	30	52
31	4	34/34 (100%)	32 (94%)	2 (6%)	18	42

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
31	9	34/34 (100%)	28 (82%)	6 (18%)	2	12
All	All	5497/5830 (94%)	4927 (90%)	570 (10%)	7	25

All (570) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	C	3	VAL
3	C	26	LYS
3	C	28	GLU
3	C	37	LEU
3	C	101	GLU
3	C	113	VAL
3	C	122	ASP
3	C	173	VAL
3	C	175	LEU
3	C	182	LEU
3	C	193	VAL
3	C	220	HIS
3	C	257	LEU
3	C	275	LYS
4	D	7	VAL
4	D	9	VAL
4	D	21	VAL
4	D	23	VAL
4	D	33	VAL
4	D	38	THR
4	D	40	GLU
4	D	55	ASN
4	D	75	VAL
4	D	77	ILE
4	D	92	THR
4	D	104	VAL
4	D	134	ILE
4	D	137	HIS
4	D	143	ASN
4	D	144	ARG
4	D	175	VAL
4	D	178	GLU
4	D	182	LEU
4	D	203	LYS
5	E	20	LEU
5	E	28	ILE

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Mol	Chain	Res	Type
5	E	38	ARG
5	E	44	ARG
5	E	53	THR
5	E	57	VAL
5	E	64	ILE
5	E	110	LEU
5	E	119	ARG
5	E	132	VAL
5	E	170	LEU
5	E	172	TRP
5	E	174	VAL
5	E	183	VAL
6	F	43	LEU
6	F	45	GLU
6	F	47	LYS
6	F	49	ASP
6	F	81	LYS
6	F	88	ILE
6	F	123	ASN
6	F	139	LEU
6	F	140	ILE
6	F	149	VAL
6	F	153	ARG
6	F	159	VAL
6	F	161	THR
6	F	165	THR
6	F	170	ARG
7	G	13	LYS
7	G	15	VAL
7	G	40	GLU
7	G	45	VAL
7	G	77	LYS
7	G	89	ILE
7	G	95	ARG
7	G	105	LEU
8	H	9	LEU
8	H	15	VAL
8	H	38	LEU
8	H	47	LEU
8	H	61	ARG
8	H	66	GLU
8	H	68	LEU

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Mol	Chain	Res	Type
9	I	15	LEU
9	I	33	LEU
9	I	34	LEU
9	I	45	ASN
9	I	61	ARG
9	I	62	VAL
9	I	65	LYS
9	I	67	LEU
9	I	68	GLU
9	I	107	LEU
9	I	115	ARG
9	I	120	LEU
9	I	131	GLN
9	I	139	GLU
10	J	3	GLN
10	J	7	TYR
10	J	8	LEU
10	J	9	GLU
10	J	10	VAL
10	J	13	ASN
10	J	17	ARG
10	J	24	VAL
10	J	29	ASN
10	J	53	LYS
10	J	68	GLU
10	J	69	ILE
10	J	90	GLN
10	J	106	LEU
11	K	6	LEU
11	K	30	THR
11	K	45	LEU
11	K	46	LYS
11	K	77	ARG
11	K	85	LEU
11	K	87	ASP
11	K	91	PHE
11	K	94	GLU
11	K	99	LEU
11	K	112	LEU
11	K	125	VAL
11	K	133	SER
11	K	144	GLU

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Mol	Chain	Res	Type
11	K	147	LEU
11	K	148	LEU
12	L	5	ARG
12	L	18	LYS
12	L	25	ASP
12	L	35	VAL
12	L	45	GLN
12	L	68	ILE
12	L	75	THR
12	L	81	VAL
12	L	87	LYS
12	L	109	VAL
12	L	112	GLU
12	L	134	ARG
13	M	29	LEU
13	M	31	HIS
13	M	35	THR
13	M	36	THR
13	M	67	LEU
13	M	69	ASP
13	M	75	LEU
13	M	79	LEU
13	M	98	LEU
13	M	118	GLU
14	N	35	ILE
14	N	43	GLU
14	N	46	VAL
14	N	57	LYS
14	N	59	LYS
14	N	61	ASN
14	N	65	VAL
14	N	78	LEU
14	N	80	LEU
14	N	88	ASP
14	N	89	ARG
14	N	92	TYR
14	N	101	LEU
15	O	6	LEU
15	O	27	THR
15	O	28	VAL
15	O	49	VAL
15	O	53	ARG

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Mol	Chain	Res	Type
15	O	63	VAL
15	O	79	HIS
15	O	88	ILE
15	O	89	VAL
15	O	102	ILE
15	O	104	ASN
15	O	111	ARG
15	O	115	ARG
15	O	118	ARG
15	O	129	ARG
16	P	5	LYS
16	P	17	ILE
16	P	37	GLU
16	P	69	CYS
16	P	74	LEU
16	P	90	VAL
16	P	93	LYS
16	P	104	GLN
16	P	108	GLU
17	Q	12	TYR
17	Q	21	ARG
17	Q	25	LEU
17	Q	33	VAL
17	Q	37	VAL
17	Q	43	GLU
17	Q	46	VAL
17	Q	51	VAL
17	Q	52	VAL
17	Q	72	VAL
18	R	4	LYS
18	R	11	ARG
18	R	17	VAL
18	R	20	VAL
18	R	23	LEU
18	R	39	THR
18	R	51	LEU
18	R	64	MET
18	R	78	GLU
18	R	94	ASP
18	R	99	ARG
19	S	15	GLU
19	S	31	HIS

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Mol	Chain	Res	Type
19	S	35	THR
19	S	52	VAL
19	S	57	LEU
20	T	8	LYS
20	T	34	LYS
20	T	47	LYS
20	T	49	VAL
20	T	67	LEU
20	T	72	VAL
20	T	83	THR
20	T	90	LEU
21	U	6	LYS
21	U	11	GLU
21	U	31	ARG
21	U	52	SER
21	U	70	LEU
21	U	72	ARG
21	U	75	ASN
21	U	84	GLU
21	U	86	VAL
21	U	94	GLU
21	U	145	GLU
21	U	146	ILE
21	U	156	LYS
21	U	181	GLU
22	V	15	ASP
22	V	41	ARG
22	V	55	ARG
22	V	64	ASP
22	V	74	ARG
23	W	13	ILE
23	W	21	ARG
23	W	52	ARG
24	X	3	LEU
24	X	11	GLU
24	X	29	LYS
24	X	53	LEU
24	X	61	LEU
24	X	64	LEU
24	X	69	ARG
25	Y	8	LEU
25	Y	20	LYS

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Mol	Chain	Res	Type
25	Y	31	LEU
25	Y	39	ASP
25	Y	59	VAL
26	Z	10	VAL
26	Z	23	GLU
27	0	6	VAL
27	0	26	THR
27	0	35	GLU
27	0	40	LYS
27	0	48	GLU
27	0	58	LEU
27	0	60	VAL
28	13	5	VAL
28	13	28	ARG
28	13	29	ASN
28	13	32	ASN
28	13	34	LEU
28	13	46	HIS
28	13	48	VAL
29	2	4	THR
29	2	43	THR
30	3	6	THR
30	3	13	ARG
30	3	14	VAL
30	3	31	HIS
31	4	12	ASP
31	4	26	ILE
3	c	3	VAL
3	c	6	PHE
3	c	20	ASP
3	c	23	GLU
3	c	25	THR
3	c	73	VAL
3	c	87	ASN
3	c	88	ARG
3	c	94	LEU
3	c	105	ILE
3	c	111	LEU
3	c	113	VAL
3	c	122	ASP
3	c	134	ARG
3	c	138	VAL

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Mol	Chain	Res	Type
3	c	193	VAL
3	c	203	ASN
3	c	211	ARG
3	c	221	VAL
3	c	231	HIS
3	c	263	ARG
3	c	275	LYS
4	d	7	VAL
4	d	9	VAL
4	d	12	THR
4	d	21	VAL
4	d	31	CYS
4	d	33	VAL
4	d	47	VAL
4	d	49	LEU
4	d	59	VAL
4	d	73	GLU
4	d	75	VAL
4	d	77	ILE
4	d	82	ARG
4	d	116	VAL
4	d	117	MET
4	d	134	ILE
4	d	145	LYS
4	d	159	HIS
4	d	169	ASN
4	d	175	VAL
4	d	178	GLU
4	d	181	LEU
4	d	182	LEU
4	d	188	VAL
5	e	12	LEU
5	e	13	SER
5	e	19	GLU
5	e	20	LEU
5	e	23	ASP
5	e	43	LYS
5	e	46	ARG
5	e	51	THR
5	e	68	LYS
5	e	78	ILE
5	e	82	ILE

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Mol	Chain	Res	Type
5	e	88	VAL
5	e	106	ARG
5	e	132	VAL
5	e	174	VAL
5	e	183	VAL
5	e	192	LEU
5	e	193	VAL
5	e	201	VAL
6	f	4	ASP
6	f	9	ARG
6	f	43	LEU
6	f	45	GLU
6	f	53	LEU
6	f	70	VAL
6	f	81	LYS
6	f	86	MET
6	f	92	VAL
6	f	105	LYS
6	f	124	SER
6	f	133	LEU
6	f	140	ILE
6	f	143	GLU
6	f	153	ARG
6	f	156	ASP
6	f	170	ARG
6	f	175	LEU
7	g	34	GLU
7	g	52	VAL
7	g	57	ASP
7	g	59	ARG
7	g	62	LYS
7	g	69	ARG
7	g	95	ARG
7	g	97	ARG
7	g	116	GLU
7	g	119	GLU
7	g	147	ASN
8	h	2	LYS
8	h	31	LEU
8	h	38	LEU
8	h	57	ARG
8	h	60	GLU

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Mol	Chain	Res	Type
9	i	5	VAL
9	i	7	LYS
9	i	14	VAL
9	i	34	LEU
9	i	43	THR
9	i	48	MET
9	i	50	ASP
9	i	61	ARG
9	i	65	LYS
9	i	71	ILE
9	i	89	LYS
9	i	91	LEU
9	i	99	LEU
9	i	122	VAL
9	i	131	GLN
10	j	8	LEU
10	j	10	VAL
10	j	24	VAL
10	j	29	ASN
10	j	37	ASP
10	j	53	LYS
10	j	61	VAL
10	j	77	ILE
10	j	89	ASN
10	j	96	THR
10	j	108	GLU
10	j	114	ILE
11	k	2	LYS
11	k	7	ARG
11	k	30	THR
11	k	55	ARG
11	k	57	THR
11	k	59	LEU
11	k	95	VAL
11	k	96	THR
11	k	98	GLU
11	k	106	LEU
11	k	112	LEU
11	k	147	LEU
11	k	149	GLU
12	l	2	LEU
12	l	25	ASP

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Mol	Chain	Res	Type
12	l	43	THR
12	l	55	VAL
12	l	89	ASN
12	l	109	VAL
12	l	113	GLN
12	l	127	ILE
12	l	132	VAL
13	m	17	ARG
13	m	33	ARG
13	m	36	THR
13	m	44	LEU
13	m	59	ASP
13	m	65	LEU
13	m	74	LYS
13	m	88	ARG
13	m	111	LEU
13	m	113	LEU
14	n	24	LEU
14	n	57	LYS
14	n	59	LYS
14	n	62	LYS
14	n	65	VAL
14	n	83	LYS
14	n	88	ASP
14	n	101	LEU
15	o	7	ILE
15	o	13	ARG
15	o	15	VAL
15	o	21	GLU
15	o	29	ARG
15	o	41	ARG
15	o	49	VAL
15	o	57	PHE
15	o	58	ASN
15	o	72	VAL
15	o	84	GLN
15	o	86	ILE
15	o	89	VAL
15	o	102	ILE
16	p	5	LYS
16	p	8	VAL
16	p	33	ARG

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Mol	Chain	Res	Type
16	p	37	GLU
16	p	59	ARG
16	p	60	LEU
16	p	74	LEU
16	p	83	LEU
17	q	18	LEU
17	q	26	ASP
17	q	39	LEU
17	q	44	LYS
17	q	51	VAL
17	q	52	VAL
17	q	53	GLU
17	q	60	GLU
17	q	61	VAL
17	q	62	LEU
17	q	72	VAL
17	q	75	PHE
17	q	79	VAL
17	q	83	ARG
18	r	11	ARG
18	r	12	ILE
18	r	17	VAL
18	r	19	LEU
18	r	20	VAL
18	r	36	LEU
18	r	37	ARG
18	r	51	LEU
18	r	52	GLU
18	r	60	ASN
18	r	66	GLU
18	r	96	ILE
18	r	105	VAL
19	s	40	LYS
19	s	49	VAL
19	s	57	LEU
19	s	65	ARG
19	s	68	ARG
19	s	88	LYS
20	t	5	MET
20	t	29	GLU
20	t	37	VAL
20	t	39	VAL

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Mol	Chain	Res	Type
20	t	44	ILE
20	t	90	LEU
21	u	5	LEU
21	u	27	VAL
21	u	31	ARG
21	u	36	LYS
21	u	40	ASP
21	u	41	LEU
21	u	42	VAL
21	u	58	VAL
21	u	70	LEU
21	u	71	VAL
21	u	72	ARG
21	u	89	PHE
21	u	100	VAL
21	u	118	GLN
21	u	132	ASN
21	u	156	LYS
21	u	170	THR
21	u	171	ILE
21	u	175	VAL
21	u	191	VAL
21	u	196	VAL
22	v	21	LEU
22	v	55	ARG
22	v	62	LEU
22	v	64	ASP
23	w	11	ARG
23	w	13	ILE
23	w	30	VAL
23	w	40	ARG
23	w	50	ARG
23	w	61	ARG
23	w	66	HIS
23	w	75	GLU
24	x	1	MET
24	x	2	LYS
24	x	12	GLU
24	x	53	LEU
24	x	57	ILE
25	y	7	LYS
25	y	8	LEU

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Mol	Chain	Res	Type
25	y	13	ILE
25	y	34	GLU
26	z	18	CYS
26	z	34	GLU
26	z	43	TYR
26	z	50	VAL
27	5	6	VAL
27	5	26	THR
27	5	35	GLU
27	5	58	LEU
27	5	60	VAL
28	6	5	VAL
28	6	7	ILE
28	6	24	GLU
28	6	32	ASN
28	6	48	VAL
28	6	52	VAL
29	7	1	MET
29	7	24	THR
29	7	43	THR
29	7	46	VAL
29	7	47	ARG
30	8	31	HIS
30	8	33	ASN
31	9	7	VAL
31	9	12	ASP
31	9	18	ARG
31	9	26	ILE
31	9	28	GLU
31	9	35	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (50) such sidechains are listed below:

Mol	Chain	Res	Type
3	C	129	ASN
3	C	166	GLN
4	D	169	ASN
4	D	180	ASN
5	E	169	ASN
6	F	58	GLN
7	G	147	ASN
11	K	9	ASN

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Mol	Chain	Res	Type
11	K	68	GLN
12	L	141	GLN
13	M	24	GLN
15	O	123	GLN
18	R	34	ASN
18	R	62	HIS
21	U	32	HIS
21	U	34	ASN
21	U	73	GLN
24	X	56	GLN
29	2	6	GLN
31	4	20	HIS
31	4	29	ASN
3	c	116	GLN
3	c	186	HIS
3	c	227	ASN
5	e	8	GLN
5	e	169	ASN
6	f	123	ASN
6	f	130	ASN
8	h	28	ASN
9	i	130	HIS
11	k	35	HIS
12	l	45	GLN
12	l	141	GLN
13	m	11	ASN
13	m	31	HIS
14	n	34	HIS
16	p	81	HIS
16	p	94	ASN
16	p	104	GLN
18	r	34	ASN
19	s	82	GLN
21	u	73	GLN
22	v	35	ASN
23	w	47	GLN
23	w	56	GLN
25	y	32	GLN
25	y	46	ASN
27	5	23	HIS
29	7	36	GLN
31	9	20	HIS

5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	2863/2915 (98%)	695 (24%)	31 (1%)
1	a	2862/2915 (98%)	679 (23%)	0
2	B	119/122 (97%)	14 (11%)	0
2	b	119/122 (97%)	24 (20%)	0
All	All	5963/6074 (98%)	1412 (23%)	31 (0%)

All (1412) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	A	7	G
1	A	15	G
1	A	23	G
1	A	31	C
1	A	33	U
1	A	34	C
1	A	35	G
1	A	41	C
1	A	45	C
1	A	49	U
1	A	50	G
1	A	54	G
1	A	58	U
1	A	62	U
1	A	70	A
1	A	72	A
1	A	73	A
1	A	74	G
1	A	83	A
1	A	84	G
1	A	89	U
1	A	95	G
1	A	116	A
1	A	117	A
1	A	118	U
1	A	135	C
1	A	137	G
1	A	139	A
1	A	152	G
1	A	164	G
1	A	171	A
1	A	177	G

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Mol	Chain	Res	Type
1	A	183	G
1	A	185	A
1	A	188	A
1	A	194	G
1	A	195	U
1	A	204	G
1	A	205	A
1	A	211	A
1	A	216	A
1	A	217	A
1	A	218	A
1	A	221	G
1	A	223	C
1	A	237	G
1	A	248	G
1	A	268	G
1	A	269	G
1	A	270	C
1	A	271	U
1	A	272	U
1	A	273	G
1	A	275	C
1	A	288	U
1	A	289	G
1	A	291	G
1	A	295	C
1	A	303	C
1	A	323	A
1	A	326	C
1	A	335	A
1	A	347	G
1	A	354	A
1	A	359	C
1	A	369	A
1	A	376	G
1	A	377	G
1	A	387	G
1	A	389	G
1	A	399	G
1	A	407	U
1	A	411	U
1	A	413	G

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Mol	Chain	Res	Type
1	A	414	U
1	A	415	G
1	A	423	G
1	A	432	U
1	A	433	G
1	A	434	G
1	A	438	G
1	A	439	A
1	A	445	G
1	A	447	C
1	A	448	U
1	A	451	G
1	A	455	A
1	A	456	A
1	A	462	C
1	A	469	A
1	A	472	G
1	A	474	U
1	A	478	G
1	A	482	C
1	A	499	G
1	A	507	G
1	A	530	A
1	A	534	C
1	A	541	C
1	A	543	G
1	A	547	G
1	A	553	A
1	A	554	A
1	A	555	G
1	A	556	C
1	A	557	A
1	A	558	G
1	A	568	C
1	A	573	G
1	A	579	G
1	A	580	U
1	A	585	U
1	A	586	G
1	A	589	U
1	A	590	A
1	A	591	U

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Mol	Chain	Res	Type
1	A	595	A
1	A	596	G
1	A	597	C
1	A	598	A
1	A	599	U
1	A	600	G
1	A	615	G
1	A	616	G
1	A	618	C
1	A	623	G
1	A	626	A
1	A	627	G
1	A	630	U
1	A	638	U
1	A	639	G
1	A	641	G
1	A	642	G
1	A	645	G
1	A	647	G
1	A	652	A
1	A	662	A
1	A	668	A
1	A	670	C
1	A	671	A
1	A	677	C
1	A	678	A
1	A	693	G
1	A	694	G
1	A	697	C
1	A	698	G
1	A	714	U
1	A	716	G
1	A	726	C
1	A	733	G
1	A	736	A
1	A	753	A
1	A	763	A
1	A	764	G
1	A	773	G
1	A	775	G
1	A	777	C
1	A	783	C

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Mol	Chain	Res	Type
1	A	784	C
1	A	787	U
1	A	791	G
1	A	795	G
1	A	811	A
1	A	818	G
1	A	821	A
1	A	822	G
1	A	823	G
1	A	829	A
1	A	830	A
1	A	831	A
1	A	832	G
1	A	833	C
1	A	836	A
1	A	839	G
1	A	840	A
1	A	841	G
1	A	846	G
1	A	847	A
1	A	848	G
1	A	852	G
1	A	853	C
1	A	859	C
1	A	866	A
1	A	874	U
1	A	875	U
1	A	879	G
1	A	900	G
1	A	906	G
1	A	918	U
1	A	919	A
1	A	927	G
1	A	933	C
1	A	934	A
1	A	936	C
1	A	937	A
1	A	938	G
1	A	942	A
1	A	944	C
1	A	956	A
1	A	958	C

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Mol	Chain	Res	Type
1	A	960	C
1	A	976	G
1	A	977	G
1	A	988	U
1	A	990	A
1	A	991	G
1	A	998	A
1	A	1002	A
1	A	1003	U
1	A	1004	A
1	A	1006	C
1	A	1007	G
1	A	1008	U
1	A	1013	G
1	A	1016	C
1	A	1018	A
1	A	1019	G
1	A	1020	C
1	A	1022	C
1	A	1026	A
1	A	1029	A
1	A	1042	A
1	A	1047	A
1	A	1049	G
1	A	1055	A
1	A	1059	C
1	A	1067	A
1	A	1071	G
1	A	1072	U
1	A	1079	U
1	A	1080	G
1	A	1087	C
1	A	1088	G
1	A	1090	G
1	A	1092	A
1	A	1093	G
1	A	1094	A
1	A	1099	C
1	A	1104	G
1	A	1106	U
1	A	1107	U
1	A	1108	G

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Mol	Chain	Res	Type
1	A	1111	U
1	A	1113	A
1	A	1114	G
1	A	1116	A
1	A	1117	G
1	A	1119	A
1	A	1123	A
1	A	1124	U
1	A	1129	U
1	A	1134	A
1	A	1136	U
1	A	1142	A
1	A	1143	U
1	A	1151	U
1	A	1155	C
1	A	1156	G
1	A	1158	G
1	A	1163	G
1	A	1171	G
1	A	1172	A
1	A	1175	A
1	A	1176	U
1	A	1180	C
1	A	1181	G
1	A	1184	G
1	A	1185	C
1	A	1186	U
1	A	1188	A
1	A	1216	G
1	A	1217	G
1	A	1218	G
1	A	1219	A
1	A	1220	U
1	A	1221	G
1	A	1222	A
1	A	1223	C
1	A	1236	G
1	A	1247	C
1	A	1255	A
1	A	1256	U
1	A	1257	G
1	A	1266	C

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Mol	Chain	Res	Type
1	A	1273	G
1	A	1280	U
1	A	1282	G
1	A	1287	A
1	A	1288	A
1	A	1290	G
1	A	1295	U
1	A	1296	G
1	A	1298	G
1	A	1299	A
1	A	1301	U
1	A	1302	G
1	A	1311	A
1	A	1312	G
1	A	1313	U
1	A	1316	C
1	A	1317	G
1	A	1318	A
1	A	1319	U
1	A	1320	A
1	A	1333	A
1	A	1346	U
1	A	1347	A
1	A	1348	A
1	A	1357	G
1	A	1358	U
1	A	1363	A
1	A	1370	G
1	A	1371	G
1	A	1375	U
1	A	1377	A
1	A	1389	G
1	A	1391	C
1	A	1403	U
1	A	1405	A
1	A	1411	A
1	A	1419	A
1	A	1424	A
1	A	1425	A
1	A	1426	G
1	A	1430	A
1	A	1431	G

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Mol	Chain	Res	Type
1	A	1441	A
1	A	1442	U
1	A	1444	C
1	A	1459	G
1	A	1462	G
1	A	1463	C
1	A	1466	U
1	A	1467	G
1	A	1474	C
1	A	1475	G
1	A	1482	G
1	A	1491	A
1	A	1497	G
1	A	1500	A
1	A	1501	U
1	A	1502	G
1	A	1506	G
1	A	1507	A
1	A	1508	G
1	A	1514	C
1	A	1516	A
1	A	1517	G
1	A	1518	A
1	A	1529	G
1	A	1536	A
1	A	1537	G
1	A	1539	C
1	A	1543	U
1	A	1552	C
1	A	1554	A
1	A	1555	C
1	A	1556	A
1	A	1561	C
1	A	1565	G
1	A	1566	U
1	A	1578	C
1	A	1579	C
1	A	1588	G
1	A	1589	A
1	A	1601	A
1	A	1602	G
1	A	1605	A

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Mol	Chain	Res	Type
1	A	1606	G
1	A	1607	G
1	A	1612	C
1	A	1616	A
1	A	1617	A
1	A	1625	U
1	A	1626	A
1	A	1627	A
1	A	1628	G
1	A	1631	C
1	A	1632	A
1	A	1641	G
1	A	1649	A
1	A	1654	A
1	A	1656	A
1	A	1665	G
1	A	1670	G
1	A	1695	C
1	A	1696	G
1	A	1700	G
1	A	1701	A
1	A	1703	C
1	A	1715	A
1	A	1721	G
1	A	1724	A
1	A	1728	G
1	A	1743	G
1	A	1746	G
1	A	1747	A
1	A	1748	A
1	A	1755	C
1	A	1760	U
1	A	1766	G
1	A	1767	A
1	A	1777	G
1	A	1781	G
1	A	1788	U
1	A	1790	A
1	A	1793	A
1	A	1794	G
1	A	1795	G
1	A	1804	A

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Mol	Chain	Res	Type
1	A	1811	A
1	A	1812	C
1	A	1813	C
1	A	1814	A
1	A	1822	A
1	A	1824	C
1	A	1829	U
1	A	1830	G
1	A	1831	C
1	A	1832	G
1	A	1833	A
1	A	1842	G
1	A	1843	A
1	A	1847	G
1	A	1850	A
1	A	1852	A
1	A	1864	U
1	A	1866	G
1	A	1878	A
1	A	1879	A
1	A	1889	G
1	A	1898	A
1	A	1899	A
1	A	1900	G
1	A	1909	C
1	A	1910	G
1	A	1911	A
1	A	1921	G
1	A	1922	A
1	A	1933	PSU
1	A	1934	A
1	A	1935	A
1	A	1937	5MU
1	A	1938	A
1	A	1939	PSU
1	A	1940	A
1	A	1941	A
1	A	1942	4OC
1	A	1943	G
1	A	1946	C
1	A	1951	G
1	A	1952	G

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Mol	Chain	Res	Type
1	A	1955	G
1	A	1957	G
1	A	1958	A
1	A	1959	A
1	A	1960	A
1	A	1961	5MU
1	A	1962	U
1	A	1964	5MC
1	A	1965	U
1	A	1968	U
1	A	1974	A
1	A	1977	U
1	A	1982	A
1	A	1984	5MC
1	A	1985	U
1	A	1986	G
1	A	1989	C
1	A	1992	A
1	A	1993	A
1	A	1994	A
1	A	1999	A
1	A	2004	C
1	A	2006	G
1	A	2014	G
1	A	2015	U
1	A	2017	U
1	A	2018	C
1	A	2019	G
1	A	2025	G
1	A	2026	G
1	A	2043	C
1	A	2045	G
1	A	2053	A
1	A	2054	G
1	A	2055	A
1	A	2056	U
1	A	2058	C
1	A	2061	C
1	A	2063	U
1	A	2064	A
1	A	2073	A
1	A	2074	G

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Mol	Chain	Res	Type
1	A	2077	C
1	A	2078	G
1	A	2079	A
1	A	2081	A
1	A	2082	A
1	A	2083	G
1	A	2084	A
1	A	2090	U
1	A	2091	G
1	A	2102	G
1	A	2104	A
1	A	2115	G
1	A	2121	U
1	A	2124	U
1	A	2125	C
1	A	2126	G
1	A	2130	C
1	A	2133	C
1	A	2138	G
1	A	2139	A
1	A	2145	G
1	A	2148	A
1	A	2149	G
1	A	2151	C
1	A	2153	G
1	A	2154	U
1	A	2155	G
1	A	2156	A
1	A	2158	C
1	A	2162	C
1	A	2166	U
1	A	2168	C
1	A	2169	G
1	A	2170	G
1	A	2174	G
1	A	2180	A
1	A	2183	C
1	A	2194	U
1	A	2195	A
1	A	2212	G
1	A	2214	G
1	A	2220	A

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Mol	Chain	Res	Type
1	A	2226	C
1	A	2227	G
1	A	2229	A
1	A	2231	G
1	A	2237	A
1	A	2246	G
1	A	2250	G
1	A	2251	G
1	A	2259	A
1	A	2278	A
1	A	2280	A
1	A	2283	G
1	A	2290	A
1	A	2295	C
1	A	2299	A
1	A	2300	A
1	A	2309	C
1	A	2317	A
1	A	2319	G
1	A	2324	U
1	A	2332	A
1	A	2337	G
1	A	2346	G
1	A	2348	A
1	A	2350	G
1	A	2352	G
1	A	2356	U
1	A	2357	G
1	A	2358	A
1	A	2359	C
1	A	2362	C
1	A	2370	G
1	A	2391	G
1	A	2394	G
1	A	2395	G
1	A	2397	C
1	A	2402	U
1	A	2414	C
1	A	2418	U
1	A	2426	G
1	A	2432	C
1	A	2433	G

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Mol	Chain	Res	Type
1	A	2434	A
1	A	2437	A
1	A	2438	A
1	A	2440	G
1	A	2441	G
1	A	2442	A
1	A	2444	A
1	A	2451	A
1	A	2453	C
1	A	2457	G
1	A	2459	G
1	A	2460	A
1	A	2462	A
1	A	2481	A
1	A	2486	C
1	A	2488	A
1	A	2490	A
1	A	2491	G
1	A	2492	C
1	A	2496	G
1	A	2510	C
1	A	2514	G
1	A	2515	2MA
1	A	2516	U
1	A	2517	G
1	A	2518	U
1	A	2530	A
1	A	2532	C
1	A	2534	U
1	A	2541	G
1	A	2542	A
1	A	2553	A
1	A	2559	U
1	A	2564	2MU
1	A	2565	G
1	A	2566	U
1	A	2568	C
1	A	2571	C
1	A	2576	A
1	A	2578	A
1	A	2579	G
1	A	2581	G

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Mol	Chain	Res	Type
1	A	2584	A
1	A	2585	C
1	A	2598	C
1	A	2604	G
1	A	2614	A
1	A	2615	G
1	A	2617	PSU
1	A	2618	C
1	A	2621	U
1	A	2622	C
1	A	2623	U
1	A	2624	C
1	A	2627	U
1	A	2633	A
1	A	2637	G
1	A	2641	A
1	A	2642	G
1	A	2643	G
1	A	2644	A
1	A	2646	G
1	A	2648	U
1	A	2652	G
1	A	2658	C
1	A	2668	U
1	A	2674	A
1	A	2678	C
1	A	2687	A
1	A	2688	C
1	A	2696	U
1	A	2697	G
1	A	2701	U
1	A	2702	C
1	A	2703	C
1	A	2709	G
1	A	2715	C
1	A	2719	G
1	A	2725	A
1	A	2726	A
1	A	2727	G
1	A	2739	U
1	A	2746	A
1	A	2752	U

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Mol	Chain	Res	Type
1	A	2754	A
1	A	2757	G
1	A	2764	G
1	A	2770	A
1	A	2771	A
1	A	2774	G
1	A	2777	A
1	A	2778	A
1	A	2779	G
1	A	2782	C
1	A	2783	G
1	A	2791	A
1	A	2803	A
1	A	2804	C
1	A	2813	G
1	A	2825	C
1	A	2828	G
1	A	2830	A
1	A	2831	A
1	A	2838	C
1	A	2843	G
1	A	2844	G
1	A	2845	A
1	A	2859	U
1	A	2871	G
1	A	2882	G
1	A	2889	C
1	A	2894	U
1	A	2895	C
1	A	2899	C
1	A	2901	A
1	A	2902	G
1	A	2903	G
2	B	4	C
2	B	13	A
2	B	24	G
2	B	35	U
2	B	42	C
2	B	52	A
2	B	53	A
2	B	66	A
2	B	73	A

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Mol	Chain	Res	Type
2	B	75	G
2	B	90	A
2	B	109	C
2	B	110	G
2	B	114	C
1	a	12	U
1	a	14	A
1	a	15	G
1	a	22	C
1	a	23	G
1	a	26	G
1	a	27	G
1	a	33	U
1	a	34	C
1	a	35	G
1	a	36	G
1	a	40	C
1	a	45	C
1	a	49	U
1	a	50	G
1	a	54	G
1	a	60	G
1	a	62	U
1	a	64	C
1	a	70	A
1	a	73	A
1	a	74	G
1	a	87	G
1	a	92	C
1	a	95	G
1	a	116	A
1	a	117	A
1	a	118	U
1	a	120	G
1	a	123	G
1	a	134	G
1	a	138	G
1	a	139	A
1	a	148	C
1	a	150	C
1	a	152	G
1	a	155	C

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Mol	Chain	Res	Type
1	a	162	G
1	a	164	G
1	a	169	G
1	a	170	A
1	a	171	A
1	a	185	A
1	a	186	A
1	a	188	A
1	a	194	G
1	a	205	A
1	a	210	A
1	a	211	A
1	a	212	A
1	a	216	A
1	a	218	A
1	a	222	A
1	a	231	G
1	a	234	G
1	a	237	G
1	a	238	C
1	a	247	G
1	a	248	G
1	a	253	C
1	a	256	C
1	a	257	C
1	a	268	G
1	a	269	G
1	a	270	C
1	a	271	U
1	a	272	U
1	a	273	G
1	a	274	U
1	a	275	C
1	a	279	G
1	a	284	G
1	a	285	U
1	a	288	U
1	a	289	G
1	a	295	C
1	a	299	G
1	a	303	C
1	a	308	U

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Mol	Chain	Res	Type
1	a	332	G
1	a	335	A
1	a	342	C
1	a	345	G
1	a	346	A
1	a	349	G
1	a	354	A
1	a	362	G
1	a	363	U
1	a	368	G
1	a	369	A
1	a	376	G
1	a	377	G
1	a	387	G
1	a	389	G
1	a	393	A
1	a	398	A
1	a	399	G
1	a	411	U
1	a	413	G
1	a	423	G
1	a	425	G
1	a	432	U
1	a	434	G
1	a	438	G
1	a	447	C
1	a	452	G
1	a	455	A
1	a	467	U
1	a	472	G
1	a	474	U
1	a	475	A
1	a	477	C
1	a	478	G
1	a	482	C
1	a	483	A
1	a	484	G
1	a	506	A
1	a	507	G
1	a	512	C
1	a	530	A
1	a	532	A

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Mol	Chain	Res	Type
1	a	533	G
1	a	534	C
1	a	555	G
1	a	556	C
1	a	557	A
1	a	558	G
1	a	559	U
1	a	565	C
1	a	566	C
1	a	573	G
1	a	575	G
1	a	577	U
1	a	578	U
1	a	579	G
1	a	585	U
1	a	586	G
1	a	591	U
1	a	595	A
1	a	596	G
1	a	606	G
1	a	609	A
1	a	610	C
1	a	626	A
1	a	627	G
1	a	630	U
1	a	634	C
1	a	639	G
1	a	641	G
1	a	642	G
1	a	652	A
1	a	662	A
1	a	667	G
1	a	670	C
1	a	671	A
1	a	693	G
1	a	694	G
1	a	697	C
1	a	701	A
1	a	706	C
1	a	710	G
1	a	715	G
1	a	717	A

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Mol	Chain	Res	Type
1	a	722	A
1	a	733	G
1	a	742	G
1	a	751	G
1	a	752	A
1	a	762	G
1	a	767	C
1	a	770	G
1	a	773	G
1	a	777	C
1	a	778	C
1	a	787	U
1	a	788	G
1	a	795	G
1	a	799	A
1	a	811	A
1	a	812	G
1	a	818	G
1	a	822	G
1	a	823	G
1	a	829	A
1	a	830	A
1	a	831	A
1	a	832	G
1	a	836	A
1	a	838	C
1	a	839	G
1	a	840	A
1	a	852	G
1	a	853	C
1	a	858	U
1	a	859	C
1	a	873	U
1	a	874	U
1	a	875	U
1	a	878	G
1	a	880	U
1	a	883	G
1	a	887	C
1	a	890	G
1	a	893	C
1	a	906	G

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Mol	Chain	Res	Type
1	a	911	G
1	a	912	C
1	a	913	A
1	a	927	G
1	a	931	C
1	a	934	A
1	a	936	C
1	a	937	A
1	a	938	G
1	a	941	U
1	a	942	A
1	a	956	A
1	a	963	A
1	a	974	G
1	a	977	G
1	a	988	U
1	a	990	A
1	a	991	G
1	a	998	A
1	a	999	G
1	a	1003	U
1	a	1004	A
1	a	1006	C
1	a	1017	G
1	a	1018	A
1	a	1019	G
1	a	1020	C
1	a	1026	A
1	a	1029	A
1	a	1036	A
1	a	1042	A
1	a	1051	C
1	a	1055	A
1	a	1057	G
1	a	1058	U
1	a	1059	C
1	a	1068	G
1	a	1071	G
1	a	1072	U
1	a	1079	U
1	a	1080	G
1	a	1085	G

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Mol	Chain	Res	Type
1	a	1087	C
1	a	1088	G
1	a	1090	G
1	a	1092	A
1	a	1093	G
1	a	1106	U
1	a	1107	U
1	a	1108	G
1	a	1111	U
1	a	1113	A
1	a	1116	A
1	a	1117	G
1	a	1119	A
1	a	1121	C
1	a	1122	C
1	a	1123	A
1	a	1124	U
1	a	1126	C
1	a	1129	U
1	a	1134	A
1	a	1136	U
1	a	1142	A
1	a	1143	U
1	a	1151	U
1	a	1155	C
1	a	1156	G
1	a	1158	G
1	a	1176	U
1	a	1179	U
1	a	1180	C
1	a	1181	G
1	a	1184	G
1	a	1185	C
1	a	1187	U
1	a	1189	A
1	a	1195	G
1	a	1201	A
1	a	1216	G
1	a	1217	G
1	a	1218	G
1	a	1219	A
1	a	1220	U

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Mol	Chain	Res	Type
1	a	1221	G
1	a	1222	A
1	a	1223	C
1	a	1241	C
1	a	1251	G
1	a	1255	A
1	a	1256	U
1	a	1265	A
1	a	1266	C
1	a	1270	C
1	a	1273	G
1	a	1282	G
1	a	1295	U
1	a	1296	G
1	a	1298	G
1	a	1299	A
1	a	1302	G
1	a	1312	G
1	a	1314	A
1	a	1317	G
1	a	1318	A
1	a	1320	A
1	a	1324	A
1	a	1340	U
1	a	1344	C
1	a	1346	U
1	a	1347	A
1	a	1348	A
1	a	1368	A
1	a	1371	G
1	a	1372	U
1	a	1375	U
1	a	1381	U
1	a	1387	U
1	a	1390	G
1	a	1393	G
1	a	1396	C
1	a	1405	A
1	a	1406	A
1	a	1411	A
1	a	1417	G
1	a	1425	A

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Mol	Chain	Res	Type
1	a	1426	G
1	a	1430	A
1	a	1431	G
1	a	1435	G
1	a	1441	A
1	a	1442	U
1	a	1444	C
1	a	1446	G
1	a	1459	G
1	a	1462	G
1	a	1463	C
1	a	1465	A
1	a	1466	U
1	a	1467	G
1	a	1473	A
1	a	1474	C
1	a	1477	U
1	a	1491	A
1	a	1497	G
1	a	1500	A
1	a	1501	U
1	a	1502	G
1	a	1505	C
1	a	1514	C
1	a	1518	A
1	a	1525	G
1	a	1529	G
1	a	1539	C
1	a	1550	C
1	a	1554	A
1	a	1555	C
1	a	1556	A
1	a	1572	G
1	a	1578	C
1	a	1586	G
1	a	1589	A
1	a	1590	C
1	a	1594	C
1	a	1602	G
1	a	1605	A
1	a	1607	G
1	a	1609	A

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Mol	Chain	Res	Type
1	a	1613	A
1	a	1616	A
1	a	1625	U
1	a	1626	A
1	a	1627	A
1	a	1628	G
1	a	1631	C
1	a	1632	A
1	a	1641	G
1	a	1654	A
1	a	1656	A
1	a	1659	G
1	a	1664	A
1	a	1677	C
1	a	1678	A
1	a	1681	A
1	a	1688	A
1	a	1692	G
1	a	1693	C
1	a	1695	C
1	a	1700	G
1	a	1701	A
1	a	1721	G
1	a	1723	A
1	a	1738	C
1	a	1740	U
1	a	1743	G
1	a	1747	A
1	a	1748	A
1	a	1763	G
1	a	1767	A
1	a	1768	U
1	a	1776	G
1	a	1787	G
1	a	1789	G
1	a	1794	G
1	a	1795	G
1	a	1801	G
1	a	1803	G
1	a	1804	A
1	a	1808	U
1	a	1811	A

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Mol	Chain	Res	Type
1	a	1814	A
1	a	1822	A
1	a	1831	C
1	a	1835	C
1	a	1846	A
1	a	1847	G
1	a	1848	G
1	a	1859	G
1	a	1866	G
1	a	1867	C
1	a	1873	G
1	a	1878	A
1	a	1879	A
1	a	1890	A
1	a	1899	A
1	a	1900	G
1	a	1906	A
1	a	1911	A
1	a	1918	G
1	a	1922	A
1	a	1933	PSU
1	a	1934	A
1	a	1935	A
1	a	1936	C
1	a	1937	5MU
1	a	1938	A
1	a	1939	PSU
1	a	1940	A
1	a	1942	4OC
1	a	1943	G
1	a	1951	G
1	a	1952	G
1	a	1957	G
1	a	1960	A
1	a	1961	5MU
1	a	1964	5MC
1	a	1965	U
1	a	1966	U
1	a	1972	G
1	a	1977	U
1	a	1984	5MC
1	a	1985	U

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Mol	Chain	Res	Type
1	a	1986	G
1	a	1989	C
1	a	1992	A
1	a	1993	A
1	a	1994	A
1	a	2001	C
1	a	2015	U
1	a	2016	C
1	a	2018	C
1	a	2019	G
1	a	2023	A
1	a	2025	G
1	a	2035	A
1	a	2043	C
1	a	2044	U
1	a	2045	G
1	a	2049	G
1	a	2052	A
1	a	2053	A
1	a	2055	A
1	a	2056	U
1	a	2058	C
1	a	2059	G
1	a	2060	G
1	a	2061	C
1	a	2068	G
1	a	2070	G
1	a	2073	A
1	a	2074	G
1	a	2077	C
1	a	2081	A
1	a	2082	A
1	a	2083	G
1	a	2084	A
1	a	2085	C
1	a	2091	G
1	a	2092	G
1	a	2106	C
1	a	2115	G
1	a	2121	U
1	a	2124	U
1	a	2125	C

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Mol	Chain	Res	Type
1	a	2126	G
1	a	2129	C
1	a	2130	C
1	a	2133	C
1	a	2137	G
1	a	2138	G
1	a	2139	A
1	a	2140	U
1	a	2141	A
1	a	2145	G
1	a	2147	G
1	a	2149	G
1	a	2153	G
1	a	2154	U
1	a	2155	G
1	a	2161	C
1	a	2166	U
1	a	2167	C
1	a	2168	C
1	a	2169	G
1	a	2170	G
1	a	2180	A
1	a	2199	C
1	a	2212	G
1	a	2214	G
1	a	2220	A
1	a	2227	G
1	a	2230	U
1	a	2231	G
1	a	2237	A
1	a	2248	C
1	a	2251	G
1	a	2252	C
1	a	2261	U
1	a	2266	C
1	a	2280	A
1	a	2281	A
1	a	2284	U
1	a	2295	C
1	a	2299	A
1	a	2300	A
1	a	2303	U

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Mol	Chain	Res	Type
1	a	2317	A
1	a	2319	G
1	a	2324	U
1	a	2331	G
1	a	2332	A
1	a	2333	G
1	a	2337	G
1	a	2346	G
1	a	2348	A
1	a	2354	C
1	a	2357	G
1	a	2359	C
1	a	2362	C
1	a	2366	G
1	a	2370	G
1	a	2395	G
1	a	2397	C
1	a	2403	G
1	a	2414	C
1	a	2418	U
1	a	2419	G
1	a	2426	G
1	a	2434	A
1	a	2435	U
1	a	2436	C
1	a	2437	A
1	a	2440	G
1	a	2441	G
1	a	2442	A
1	a	2443	U
1	a	2449	U
1	a	2450	U
1	a	2451	A
1	a	2453	C
1	a	2459	G
1	a	2460	A
1	a	2461	U
1	a	2462	A
1	a	2466	G
1	a	2488	A
1	a	2489	C
1	a	2490	A

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Mol	Chain	Res	Type
1	a	2492	C
1	a	2513	C
1	a	2514	G
1	a	2515	2MA
1	a	2516	U
1	a	2517	G
1	a	2518	U
1	a	2519	C
1	a	2530	A
1	a	2537	G
1	a	2541	G
1	a	2554	A
1	a	2555	G
1	a	2560	G
1	a	2564	2MU
1	a	2565	G
1	a	2566	U
1	a	2579	G
1	a	2584	A
1	a	2588	G
1	a	2589	A
1	a	2593	G
1	a	2611	G
1	a	2612	A
1	a	2613	C
1	a	2614	A
1	a	2615	G
1	a	2617	PSU
1	a	2618	C
1	a	2620	G
1	a	2624	C
1	a	2631	C
1	a	2641	A
1	a	2642	G
1	a	2651	A
1	a	2666	A
1	a	2670	C
1	a	2674	A
1	a	2679	C
1	a	2692	C
1	a	2701	U
1	a	2702	C

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Mol	Chain	Res	Type
1	a	2708	U
1	a	2714	U
1	a	2725	A
1	a	2726	A
1	a	2727	G
1	a	2731	G
1	a	2733	U
1	a	2734	A
1	a	2737	C
1	a	2739	U
1	a	2744	G
1	a	2746	A
1	a	2751	A
1	a	2757	G
1	a	2761	A
1	a	2763	A
1	a	2770	A
1	a	2774	G
1	a	2777	A
1	a	2778	A
1	a	2787	C
1	a	2789	A
1	a	2791	A
1	a	2792	U
1	a	2803	A
1	a	2804	C
1	a	2813	G
1	a	2826	C
1	a	2828	G
1	a	2830	A
1	a	2831	A
1	a	2835	C
1	a	2842	U
1	a	2843	G
1	a	2844	G
1	a	2845	A
1	a	2846	U
1	a	2852	G
1	a	2859	U
1	a	2860	A
1	a	2864	G
1	a	2865	C

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Mol	Chain	Res	Type
1	a	2868	C
1	a	2876	U
1	a	2882	G
1	a	2885	C
1	a	2889	C
1	a	2890	C
1	a	2894	U
1	a	2895	C
1	a	2901	A
1	a	2902	G
1	a	2903	G
1	a	2904	U
2	b	2	C
2	b	12	C
2	b	13	A
2	b	24	G
2	b	25	A
2	b	28	C
2	b	30	C
2	b	34	U
2	b	35	U
2	b	40	U
2	b	52	A
2	b	53	A
2	b	66	A
2	b	67	G
2	b	73	A
2	b	75	G
2	b	84	C
2	b	87	G
2	b	89	G
2	b	91	C
2	b	94	C
2	b	106	G
2	b	107	G
2	b	110	G

All (31) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	A	184	A
1	A	302	A

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Mol	Chain	Res	Type
1	A	877	G
1	A	935	C
1	A	941	U
1	A	1005	A
1	A	1079	U
1	A	1188	A
1	A	1220	U
1	A	1221	G
1	A	1255	A
1	A	1286	U
1	A	1346	U
1	A	1425	A
1	A	1536	A
1	A	1700	G
1	A	1821	C
1	A	1933	PSU
1	A	1937	5MU
1	A	1939	PSU
1	A	1961	5MU
1	A	1964	5MC
1	A	1984	5MC
1	A	2148	A
1	A	2450	U
1	A	2518	U
1	A	2614	A
1	A	2617	PSU
1	A	2701	U
1	A	2769	U
1	A	2902	G

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

20 non-standard protein/DNA/RNA residues are modelled in this entry.

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
1	PSU	a	1933	1	18,21,22	2.37	7 (38%)	21,30,33	1.87	4 (19%)
1	5MC	a	1964	1	19,22,23	1.91	5 (26%)	26,32,35	1.23	3 (11%)
1	PSU	a	2617	1	18,21,22	2.34	7 (38%)	21,30,33	1.93	3 (14%)
1	2MA	a	2515	1,32	22,25,26	1.39	3 (13%)	32,37,40	2.24	9 (28%)
1	5MC	A	1964	1,32	19,22,23	1.91	5 (26%)	26,32,35	1.18	2 (7%)
1	PSU	A	1939	1	18,21,22	2.35	8 (44%)	21,30,33	1.83	3 (14%)
1	2MU	a	2564	1	19,22,24	5.04	14 (73%)	25,31,36	2.51	11 (44%)
1	5MC	a	1984	1	19,22,23	1.98	5 (26%)	26,32,35	1.18	2 (7%)
1	4OC	a	1942	1	19,22,24	1.78	4 (21%)	25,31,35	1.27	5 (20%)
1	5MU	a	1937	1	19,22,23	1.97	7 (36%)	27,32,35	2.23	6 (22%)
1	5MU	A	1937	1	19,22,23	1.99	7 (36%)	27,32,35	2.27	6 (22%)
1	5MC	A	1984	1	19,22,23	1.95	5 (26%)	26,32,35	1.15	1 (3%)
1	PSU	a	1939	1	18,21,22	2.29	7 (38%)	21,30,33	1.94	3 (14%)
1	2MA	A	2515	1,32	22,25,26	1.38	3 (13%)	32,37,40	2.31	9 (28%)
1	5MU	A	1961	1	19,22,23	1.99	7 (36%)	27,32,35	2.30	9 (33%)
1	2MU	A	2564	1,32	19,22,24	5.05	14 (73%)	25,31,36	2.28	10 (40%)
1	PSU	A	1933	1	18,21,22	2.39	9 (50%)	21,30,33	1.85	4 (19%)
1	4OC	A	1942	1	19,22,24	1.79	4 (21%)	25,31,35	1.27	4 (16%)
1	PSU	A	2617	1	18,21,22	2.36	6 (33%)	21,30,33	1.85	4 (19%)
1	5MU	a	1961	1	19,22,23	1.96	7 (36%)	27,32,35	2.34	8 (29%)

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
1	PSU	a	1933	1	3/3/5/5	5/7/25/26	0/2/2/2
1	5MC	a	1964	1	2/2/5/5	0/7/25/26	0/2/2/2
1	PSU	a	2617	1	3/3/5/5	6/7/25/26	0/2/2/2
1	2MA	a	2515	1,32	1/1/5/5	4/7/25/26	0/3/3/3
1	5MC	A	1964	1,32	2/2/5/5	2/7/25/26	0/2/2/2
1	PSU	A	1939	1	3/3/5/5	4/7/25/26	0/2/2/2
1	2MU	a	2564	1	2/2/5/5	5/9/27/28	0/2/2/2
1	5MC	a	1984	1	2/2/5/5	2/7/25/26	0/2/2/2
1	4OC	a	1942	1	2/2/5/6	3/9/27/30	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	5MU	a	1937	1	1/1/5/5	0/7/25/26	0/2/2/2
1	5MU	A	1937	1	1/1/5/5	0/7/25/26	0/2/2/2
1	5MC	A	1984	1	2/2/5/5	2/7/25/26	0/2/2/2
1	PSU	a	1939	1	3/3/5/5	3/7/25/26	0/2/2/2
1	2MA	A	2515	1,32	1/1/5/5	3/7/25/26	0/3/3/3
1	5MU	A	1961	1	1/1/5/5	2/7/25/26	0/2/2/2
1	2MU	A	2564	1,32	2/2/5/5	4/9/27/28	0/2/2/2
1	PSU	A	1933	1	3/3/5/5	5/7/25/26	0/2/2/2
1	4OC	A	1942	1	2/2/5/6	2/9/27/30	0/2/2/2
1	PSU	A	2617	1	3/3/5/5	7/7/25/26	0/2/2/2
1	5MU	a	1961	1	1/1/5/5	5/7/25/26	0/2/2/2

All (134) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	2564	2MU	O4-C4	11.29	1.46	1.24
1	A	2564	2MU	O4-C4	11.28	1.46	1.24
1	a	2564	2MU	C2'-C1'	-9.52	1.29	1.53
1	A	2564	2MU	C2'-C1'	-9.49	1.29	1.53
1	A	2564	2MU	C3'-C4'	-9.21	1.29	1.53
1	a	2564	2MU	C3'-C4'	-9.10	1.29	1.53
1	A	2564	2MU	C3'-C2'	6.30	1.66	1.53
1	a	2564	2MU	C3'-C2'	6.16	1.66	1.53
1	A	2564	2MU	O4'-C1'	5.81	1.55	1.42
1	a	1984	5MC	C4-N4	5.76	1.48	1.34
1	a	2564	2MU	O4'-C1'	5.67	1.55	1.42
1	A	1964	5MC	C4-N4	5.66	1.48	1.34
1	a	1964	5MC	C4-N4	5.63	1.48	1.34
1	A	1984	5MC	C4-N4	5.59	1.48	1.34
1	a	2564	2MU	O4'-C4'	5.22	1.56	1.45
1	a	1933	PSU	O4-C4	-5.17	1.13	1.23
1	A	1933	PSU	O4-C4	-5.15	1.13	1.23
1	A	2617	PSU	O4-C4	-5.15	1.13	1.23
1	a	1939	PSU	O4-C4	-5.12	1.13	1.23
1	a	2617	PSU	O4-C4	-5.12	1.13	1.23
1	A	1939	PSU	O4-C4	-5.11	1.13	1.23
1	A	2564	2MU	O4'-C4'	5.06	1.56	1.45
1	A	1942	4OC	C4-N4	4.78	1.45	1.33
1	a	1942	4OC	C4-N4	4.78	1.45	1.33
1	A	1933	PSU	C2-N1	-4.69	1.30	1.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	2617	PSU	C2-N1	-4.63	1.30	1.36
1	a	2617	PSU	C2-N1	-4.59	1.30	1.36
1	A	1939	PSU	C2-N1	-4.55	1.30	1.36
1	a	1933	PSU	C2-N1	-4.52	1.30	1.36
1	a	2515	2MA	C6-N6	4.51	1.45	1.34
1	A	2515	2MA	C6-N6	4.44	1.45	1.34
1	a	1939	PSU	C2-N1	-4.38	1.31	1.36
1	A	2564	2MU	C4-N3	-3.99	1.31	1.38
1	a	2564	2MU	C4-N3	-3.91	1.31	1.38
1	A	1937	5MU	C6-C5	3.84	1.40	1.34
1	A	1961	5MU	C6-C5	3.80	1.40	1.34
1	A	2617	PSU	C6-C5	3.80	1.39	1.35
1	a	1933	PSU	C6-C5	3.79	1.39	1.35
1	a	1937	5MU	C6-C5	3.71	1.40	1.34
1	a	1939	PSU	C6-C5	3.69	1.39	1.35
1	a	1961	5MU	C6-C5	3.68	1.40	1.34
1	A	1933	PSU	C6-C5	3.66	1.39	1.35
1	a	1984	5MC	C2-N1	-3.61	1.32	1.40
1	a	2617	PSU	C6-C5	3.60	1.39	1.35
1	A	1939	PSU	C6-C5	3.60	1.39	1.35
1	A	2564	2MU	C2-N3	-3.51	1.31	1.38
1	a	1984	5MC	C6-C5	3.50	1.40	1.34
1	a	2564	2MU	C2-N3	-3.48	1.31	1.38
1	A	1984	5MC	C2-N1	-3.48	1.32	1.40
1	A	1942	4OC	C2-N1	-3.47	1.32	1.40
1	a	1942	4OC	C2-N1	-3.40	1.33	1.40
1	A	1939	PSU	C2-N3	-3.36	1.31	1.37
1	a	1964	5MC	C2-N1	-3.35	1.33	1.40
1	A	1964	5MC	C2-N1	-3.35	1.33	1.40
1	A	1961	5MU	C4-N3	-3.33	1.32	1.38
1	a	2617	PSU	C2-N3	-3.31	1.32	1.37
1	A	2564	2MU	O2-C2	-3.30	1.17	1.23
1	A	1961	5MU	C4-C5	-3.30	1.39	1.44
1	a	1961	5MU	C4-C5	-3.28	1.39	1.44
1	a	2564	2MU	O2-C2	-3.27	1.17	1.23
1	a	1933	PSU	C2-N3	-3.27	1.32	1.37
1	A	2617	PSU	C2-N3	-3.26	1.32	1.37
1	A	1933	PSU	C2-N3	-3.25	1.32	1.37
1	a	1939	PSU	C2-N3	-3.24	1.32	1.37
1	A	1964	5MC	C6-C5	3.24	1.39	1.34
1	A	1937	5MU	C4-N3	-3.23	1.32	1.38
1	a	1961	5MU	C6-N1	-3.23	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	1961	5MU	C4-N3	-3.23	1.32	1.38
1	a	1937	5MU	C4-N3	-3.21	1.32	1.38
1	a	1964	5MC	C6-C5	3.21	1.39	1.34
1	A	1961	5MU	C6-N1	-3.18	1.32	1.38
1	a	1937	5MU	C4-C5	-3.16	1.39	1.44
1	A	1937	5MU	C6-N1	-3.15	1.32	1.38
1	A	1937	5MU	C4-C5	-3.09	1.39	1.44
1	A	1984	5MC	C6-C5	3.09	1.39	1.34
1	A	1961	5MU	C2-N3	-3.07	1.32	1.38
1	a	1937	5MU	C6-N1	-3.05	1.32	1.38
1	A	1984	5MC	C5-C4	-3.04	1.41	1.44
1	A	1937	5MU	C2-N3	-3.03	1.32	1.38
1	a	2564	2MU	C6-N1	-3.02	1.30	1.38
1	a	1961	5MU	O2-C2	-3.00	1.17	1.23
1	a	2564	2MU	O3'-C3'	3.00	1.50	1.43
1	a	1937	5MU	C2-N3	-3.00	1.32	1.38
1	A	2564	2MU	C6-N1	-2.96	1.31	1.38
1	A	1961	5MU	O2-C2	-2.94	1.17	1.23
1	A	1937	5MU	C2-N1	-2.93	1.33	1.38
1	A	2564	2MU	O3'-C3'	2.91	1.50	1.43
1	a	2515	2MA	C8-N9	-2.90	1.32	1.37
1	a	1961	5MU	C2-N3	-2.88	1.33	1.38
1	A	2515	2MA	C8-N9	-2.83	1.32	1.37
1	a	1933	PSU	C1'-C5	2.82	1.56	1.50
1	a	1937	5MU	O2-C2	-2.80	1.18	1.23
1	A	1937	5MU	O2-C2	-2.80	1.18	1.23
1	a	1937	5MU	C2-N1	-2.78	1.34	1.38
1	A	1933	PSU	C4-N3	-2.74	1.33	1.38
1	A	2617	PSU	C1'-C5	2.74	1.56	1.50
1	a	2564	2MU	C5'-C4'	2.72	1.59	1.51
1	a	1942	4OC	O2-C2	-2.72	1.18	1.23
1	a	1939	PSU	C4-N3	-2.70	1.33	1.38
1	A	1942	4OC	O2-C2	-2.68	1.18	1.23
1	A	1939	PSU	C4-N3	-2.67	1.33	1.38
1	A	2617	PSU	C4-N3	-2.67	1.33	1.38
1	A	1933	PSU	C1'-C5	2.65	1.56	1.50
1	a	2617	PSU	C1'-C5	2.65	1.56	1.50
1	A	1939	PSU	C1'-C5	2.63	1.56	1.50
1	a	2617	PSU	C4-N3	-2.63	1.33	1.38
1	A	2564	2MU	C5'-C4'	2.62	1.59	1.51
1	a	1933	PSU	C4-N3	-2.60	1.34	1.38
1	a	1984	5MC	O2-C2	-2.58	1.18	1.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1961	5MU	C2-N1	-2.56	1.34	1.38
1	a	2564	2MU	C2-N1	-2.54	1.34	1.38
1	A	1984	5MC	O2-C2	-2.52	1.19	1.23
1	a	1964	5MC	O2-C2	-2.46	1.19	1.23
1	A	2515	2MA	C5-N7	-2.46	1.34	1.39
1	a	1964	5MC	C5-C4	-2.44	1.42	1.44
1	A	1964	5MC	O2-C2	-2.43	1.19	1.23
1	a	1939	PSU	C1'-C5	2.40	1.55	1.50
1	a	1961	5MU	C2-N1	-2.35	1.34	1.38
1	a	2515	2MA	C5-N7	-2.34	1.34	1.39
1	A	2564	2MU	C2-N1	-2.33	1.34	1.38
1	A	1933	PSU	O4'-C1'	-2.32	1.40	1.43
1	A	1942	4OC	C6-N1	-2.30	1.32	1.38
1	a	1942	4OC	C6-N1	-2.28	1.32	1.38
1	A	1964	5MC	C5-C4	-2.27	1.42	1.44
1	a	1933	PSU	O4'-C1'	-2.22	1.40	1.43
1	a	1939	PSU	C4-C5	-2.15	1.38	1.44
1	a	1984	5MC	C5-C4	-2.13	1.42	1.44
1	a	2564	2MU	C5-C4	-2.11	1.39	1.43
1	a	2617	PSU	C6-N1	-2.10	1.32	1.36
1	A	1933	PSU	C6-N1	-2.05	1.32	1.36
1	A	1933	PSU	C4-C5	-2.04	1.38	1.44
1	A	2564	2MU	C1'-N1	2.04	1.53	1.47
1	A	1939	PSU	C4-C5	-2.02	1.38	1.44
1	A	1939	PSU	O4'-C1'	-2.02	1.41	1.43

All (106) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2515	2MA	C5-C4-N3	-7.56	119.22	127.18
1	a	2515	2MA	C5-C4-N3	-7.19	119.61	127.18
1	a	1939	PSU	N1-C2-N3	5.88	121.37	115.17
1	a	2617	PSU	N1-C2-N3	5.87	121.36	115.17
1	A	1961	5MU	N3-C2-N1	5.73	122.35	114.89
1	A	2617	PSU	N1-C2-N3	5.72	121.21	115.17
1	a	1937	5MU	N3-C2-N1	5.72	122.34	114.89
1	a	1933	PSU	N1-C2-N3	5.67	121.15	115.17
1	A	1939	PSU	N1-C2-N3	5.66	121.14	115.17
1	A	1933	PSU	N1-C2-N3	5.63	121.10	115.17
1	a	1961	5MU	N3-C2-N1	5.52	122.08	114.89
1	A	1937	5MU	N3-C2-N1	5.52	122.08	114.89
1	A	2515	2MA	N3-C4-N9	5.49	133.96	126.99

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	1937	5MU	C4-N3-C2	-5.28	120.41	127.34
1	A	2564	2MU	N3-C2-N1	5.20	121.66	114.89
1	a	2515	2MA	N3-C4-N9	5.16	133.54	126.99
1	A	1961	5MU	C4-N3-C2	-5.15	120.59	127.34
1	a	2564	2MU	C4-N3-C2	-5.14	120.23	126.61
1	a	1937	5MU	C4-N3-C2	-5.14	120.60	127.34
1	A	2564	2MU	C4-N3-C2	-5.05	120.35	126.61
1	a	2564	2MU	N3-C2-N1	5.04	121.45	114.89
1	A	1937	5MU	C5-C6-N1	-4.96	117.93	123.31
1	a	1961	5MU	C4-N3-C2	-4.75	121.11	127.34
1	a	1984	5MC	C5-C6-N1	-4.67	118.24	123.31
1	A	1961	5MU	C5-C6-N1	-4.50	118.43	123.31
1	A	1937	5MU	C5-C4-N3	4.49	119.23	115.32
1	A	1964	5MC	C5-C6-N1	-4.39	118.55	123.31
1	A	1984	5MC	C5-C6-N1	-4.37	118.57	123.31
1	a	1937	5MU	C5-C6-N1	-4.31	118.63	123.31
1	A	1961	5MU	C5-C4-N3	4.24	119.01	115.32
1	a	1937	5MU	C5-C4-N3	4.24	119.01	115.32
1	a	1964	5MC	C5-C6-N1	-4.22	118.73	123.31
1	a	2564	2MU	C4'-O4'-C1'	-4.12	100.38	109.47
1	a	2564	2MU	C5-C4-N3	4.03	120.44	114.80
1	a	1961	5MU	C1'-N1-C2	4.02	124.82	117.59
1	A	1937	5MU	O4-C4-C5	-3.92	120.44	124.92
1	a	2617	PSU	O2-C2-N1	-3.91	118.76	122.79
1	a	1961	5MU	C5-C4-N3	3.90	118.72	115.32
1	a	1937	5MU	O4-C4-C5	-3.87	120.50	124.92
1	A	2564	2MU	C5-C4-N3	3.84	120.17	114.80
1	A	1961	5MU	O4-C4-C5	-3.83	120.53	124.92
1	a	1961	5MU	O4-C4-C5	-3.78	120.59	124.92
1	a	1939	PSU	C4-N3-C2	-3.77	121.18	126.37
1	A	1933	PSU	O2-C2-N1	-3.65	119.02	122.79
1	a	2515	2MA	C4-C5-N7	-3.61	106.45	110.58
1	a	2617	PSU	C4-N3-C2	-3.60	121.41	126.37
1	a	1961	5MU	C5-C6-N1	-3.55	119.46	123.31
1	A	2515	2MA	C5-N7-C8	3.54	109.02	103.45
1	a	2564	2MU	O4'-C1'-N1	3.52	116.35	108.36
1	a	1961	5MU	C1'-N1-C6	-3.52	115.35	121.15
1	a	2515	2MA	C5-N7-C8	3.50	108.94	103.45
1	A	2515	2MA	C4-C5-N7	-3.49	106.59	110.58
1	a	1933	PSU	O2-C2-N1	-3.44	119.25	122.79
1	A	1939	PSU	C4-N3-C2	-3.40	121.68	126.37
1	A	2515	2MA	N9-C8-N7	-3.40	109.12	113.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	a	2515	2MA	N9-C8-N7	-3.39	109.13	113.94
1	A	1939	PSU	O2-C2-N1	-3.38	119.30	122.79
1	A	2617	PSU	C4-N3-C2	-3.38	121.71	126.37
1	a	1933	PSU	C4-N3-C2	-3.35	121.75	126.37
1	a	1939	PSU	O2-C2-N1	-3.34	119.34	122.79
1	A	2617	PSU	O2-C2-N1	-3.34	119.34	122.79
1	a	2564	2MU	O4-C4-C5	-3.30	119.46	125.16
1	a	2564	2MU	C1'-N1-C2	3.21	123.35	117.59
1	A	1933	PSU	C4-N3-C2	-3.08	122.12	126.37
1	A	2564	2MU	O4-C4-C5	-3.08	119.85	125.16
1	A	1937	5MU	O2-C2-N1	-3.00	118.90	122.80
1	A	2515	2MA	N6-C6-N1	2.99	121.06	117.03
1	a	1937	5MU	O2-C2-N1	-2.94	118.97	122.80
1	A	2564	2MU	C1'-N1-C2	2.85	122.72	117.59
1	A	2515	2MA	N3-C2-N1	-2.82	120.79	125.77
1	A	2564	2MU	C4'-O4'-C1'	-2.75	103.39	109.47
1	a	2515	2MA	C4-N9-C8	2.74	108.62	105.74
1	a	2515	2MA	N6-C6-N1	2.71	120.69	117.03
1	a	2515	2MA	N3-C2-N1	-2.71	121.00	125.77
1	A	2564	2MU	C2'-C3'-C4'	2.68	107.75	101.99
1	A	2515	2MA	C4-N9-C8	2.59	108.46	105.74
1	a	2515	2MA	C2-N1-C6	2.57	122.05	118.10
1	A	1961	5MU	C1'-N1-C2	2.57	122.21	117.59
1	A	1942	4OC	C1'-N1-C2	2.51	123.97	118.44
1	a	1942	4OC	C1'-N1-C2	2.50	123.95	118.44
1	A	2515	2MA	C2-N1-C6	2.49	121.93	118.10
1	a	2564	2MU	C2'-C3'-C4'	2.38	107.10	101.99
1	A	1933	PSU	C6-N1-C2	-2.36	120.50	122.69
1	A	1961	5MU	C1'-N1-C6	-2.31	117.35	121.15
1	a	1964	5MC	C5-C4-N3	-2.25	119.45	121.75
1	a	2564	2MU	C1'-N1-C6	-2.23	116.00	120.78
1	A	1942	4OC	O2-C2-N3	-2.22	118.83	122.33
1	A	2564	2MU	O4'-C1'-N1	2.21	113.36	108.36
1	a	1984	5MC	C5-C4-N3	-2.19	119.51	121.75
1	A	1964	5MC	C5-C4-N3	-2.18	119.52	121.75
1	A	1961	5MU	O2-C2-N3	-2.18	117.46	121.49
1	a	1942	4OC	O2-C2-N3	-2.18	118.89	122.33
1	A	2564	2MU	C3'-C2'-C1'	2.17	106.97	102.81
1	a	1942	4OC	C1'-N1-C6	-2.13	116.22	120.78
1	a	1961	5MU	O2-C2-N1	-2.11	120.05	122.80
1	a	1933	PSU	C6-N1-C2	-2.11	120.73	122.69
1	a	1964	5MC	O2-C2-N3	-2.10	119.02	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	A	2617	PSU	C6-N1-C2	-2.05	120.79	122.69
1	a	2564	2MU	O3'-C3'-C4'	2.04	116.94	111.08
1	a	1942	4OC	N4-C4-N3	2.04	121.56	117.91
1	a	1942	4OC	O3'-C3'-C2'	2.03	116.88	111.19
1	A	1942	4OC	O3'-C3'-C2'	2.02	116.85	111.19
1	A	1942	4OC	C1'-N1-C6	-2.02	116.47	120.78
1	a	2564	2MU	O2-C2-N1	-2.01	120.18	122.80
1	A	2564	2MU	O2-C2-N3	-2.01	117.78	121.49
1	A	1961	5MU	O2-C2-N1	-2.01	120.18	122.80

All (40) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
1	A	1933	PSU	C1'
1	A	1933	PSU	C3'
1	A	1933	PSU	C2'
1	A	1937	5MU	C1'
1	A	1939	PSU	C1'
1	A	1939	PSU	C3'
1	A	1939	PSU	C2'
1	A	1942	4OC	C3'
1	A	1942	4OC	C2'
1	A	1961	5MU	C1'
1	A	1964	5MC	C3'
1	A	1964	5MC	C2'
1	A	1984	5MC	C3'
1	A	1984	5MC	C2'
1	A	2515	2MA	C3'
1	A	2564	2MU	C1'
1	A	2564	2MU	C3'
1	A	2617	PSU	C1'
1	A	2617	PSU	C3'
1	A	2617	PSU	C2'
1	a	1933	PSU	C1'
1	a	1933	PSU	C3'
1	a	1933	PSU	C2'
1	a	1937	5MU	C1'
1	a	1939	PSU	C1'
1	a	1939	PSU	C3'
1	a	1939	PSU	C2'
1	a	1942	4OC	C3'
1	a	1942	4OC	C2'

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Mol	Chain	Res	Type	Atom
1	a	1961	5MU	C1'
1	a	1964	5MC	C3'
1	a	1964	5MC	C2'
1	a	1984	5MC	C3'
1	a	1984	5MC	C2'
1	a	2515	2MA	C3'
1	a	2564	2MU	C1'
1	a	2564	2MU	C3'
1	a	2617	PSU	C1'
1	a	2617	PSU	C3'
1	a	2617	PSU	C2'

All (64) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	1933	PSU	C2'-C1'-C5-C4
1	A	1933	PSU	C2'-C1'-C5-C6
1	A	1933	PSU	O4'-C4'-C5'-O5'
1	A	1939	PSU	C2'-C1'-C5-C4
1	A	1939	PSU	C2'-C1'-C5-C6
1	A	1939	PSU	C3'-C4'-C5'-O5'
1	A	1939	PSU	O4'-C4'-C5'-O5'
1	A	1942	4OC	O4'-C4'-C5'-O5'
1	A	1964	5MC	O4'-C4'-C5'-O5'
1	A	2515	2MA	O4'-C1'-N9-C8
1	A	2515	2MA	O4'-C1'-N9-C4
1	A	2564	2MU	O4'-C1'-N1-C2
1	A	2564	2MU	O4'-C1'-N1-C6
1	A	2564	2MU	C3'-C2'-O2'-C6'
1	A	2617	PSU	C2'-C1'-C5-C4
1	A	2617	PSU	C2'-C1'-C5-C6
1	A	2617	PSU	O4'-C4'-C5'-O5'
1	a	1933	PSU	C2'-C1'-C5-C4
1	a	1933	PSU	C2'-C1'-C5-C6
1	a	1933	PSU	O4'-C4'-C5'-O5'
1	a	1942	4OC	O4'-C4'-C5'-O5'
1	a	1961	5MU	O4'-C4'-C5'-O5'
1	a	1984	5MC	O4'-C4'-C5'-O5'
1	a	1984	5MC	C3'-C4'-C5'-O5'
1	a	2564	2MU	O4'-C1'-N1-C2
1	a	2564	2MU	O4'-C1'-N1-C6
1	a	2564	2MU	C3'-C2'-O2'-C6'

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Mol	Chain	Res	Type	Atoms
1	a	2617	PSU	C2'-C1'-C5-C4
1	a	2617	PSU	C2'-C1'-C5-C6
1	a	2617	PSU	O4'-C4'-C5'-O5'
1	A	1933	PSU	C3'-C4'-C5'-O5'
1	A	1984	5MC	O4'-C4'-C5'-O5'
1	A	2617	PSU	C3'-C4'-C5'-O5'
1	a	1933	PSU	C3'-C4'-C5'-O5'
1	a	2617	PSU	C3'-C4'-C5'-O5'
1	A	1942	4OC	C3'-C4'-C5'-O5'
1	a	1942	4OC	C3'-C4'-C5'-O5'
1	a	1961	5MU	C3'-C4'-C5'-O5'
1	a	2515	2MA	O4'-C1'-N9-C4
1	a	2515	2MA	O4'-C4'-C5'-O5'
1	A	1964	5MC	C3'-C4'-C5'-O5'
1	A	1984	5MC	C3'-C4'-C5'-O5'
1	a	2515	2MA	C3'-C4'-C5'-O5'
1	a	2515	2MA	O4'-C1'-N9-C8
1	A	2564	2MU	O4'-C4'-C5'-O5'
1	A	1961	5MU	O4'-C1'-N1-C2
1	A	1961	5MU	O4'-C1'-N1-C6
1	a	2564	2MU	O4'-C4'-C5'-O5'
1	A	2617	PSU	C4'-C5'-O5'-P
1	a	1939	PSU	C4'-C5'-O5'-P
1	a	1942	4OC	C4'-C5'-O5'-P
1	a	2564	2MU	C4'-C5'-O5'-P
1	A	2617	PSU	O4'-C1'-C5-C4
1	a	2617	PSU	O4'-C1'-C5-C4
1	a	1961	5MU	O4'-C1'-N1-C6
1	A	1933	PSU	O4'-C1'-C5-C6
1	A	2617	PSU	O4'-C1'-C5-C6
1	a	1933	PSU	O4'-C1'-C5-C6
1	a	2617	PSU	O4'-C1'-C5-C6
1	A	2515	2MA	O4'-C4'-C5'-O5'
1	a	1961	5MU	O4'-C1'-N1-C2
1	a	1939	PSU	C3'-C4'-C5'-O5'
1	a	1961	5MU	C2'-C1'-N1-C2
1	a	1939	PSU	O4'-C4'-C5'-O5'

There are no ring outliers.

19 monomers are involved in 41 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	a	1933	PSU	2	0
1	a	1964	5MC	2	0
1	a	2617	PSU	3	0
1	a	2515	2MA	1	0
1	A	1964	5MC	1	0
1	A	1939	PSU	3	0
1	a	2564	2MU	8	0
1	a	1984	5MC	1	0
1	a	1942	4OC	1	0
1	A	1937	5MU	1	0
1	A	1984	5MC	1	0
1	a	1939	PSU	2	0
1	A	2515	2MA	1	0
1	A	1961	5MU	2	0
1	A	2564	2MU	4	0
1	A	1933	PSU	1	0
1	A	1942	4OC	2	0
1	A	2617	PSU	2	0
1	a	1961	5MU	3	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 3817 ligands modelled in this entry, 3817 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues ⓘ

There are no chain breaks in this entry.

6 Fit of model and data ⓘ

6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 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	A	2861/2915 (98%)	-1.54	0 100 100	28, 68, 248, 600	0
1	a	2861/2915 (98%)	-1.53	0 100 100	26, 68, 245, 534	0
2	B	120/122 (98%)	-1.54	0 100 100	45, 103, 164, 217	0
2	b	120/122 (98%)	-1.52	0 100 100	55, 106, 173, 207	0
3	C	275/276 (99%)	-1.24	0 100 100	23, 51, 109, 136	0
3	c	275/276 (99%)	-1.27	0 100 100	26, 50, 111, 144	0
4	D	204/206 (99%)	-1.28	0 100 100	17, 44, 93, 144	0
4	d	204/206 (99%)	-1.23	0 100 100	10, 44, 95, 125	0
5	E	203/210 (96%)	-1.25	0 100 100	17, 62, 126, 155	0
5	e	203/210 (96%)	-1.27	0 100 100	23, 62, 118, 159	0
6	F	181/182 (99%)	-1.14	0 100 100	68, 132, 204, 233	0
6	f	181/182 (99%)	-1.17	0 100 100	71, 154, 216, 260	0
7	G	174/180 (96%)	-1.29	0 100 100	23, 76, 131, 204	0
7	g	174/180 (96%)	-1.29	0 100 100	35, 74, 124, 161	0
8	H	73/148 (49%)	-1.32	0 100 100	74, 112, 194, 314	0
8	h	62/148 (41%)	-1.32	0 100 100	68, 104, 182, 266	0
9	I	140/140 (100%)	-1.29	0 100 100	12, 49, 105, 143	0
9	i	140/140 (100%)	-1.31	0 100 100	22, 49, 109, 160	0
10	J	122/122 (100%)	-1.35	0 100 100	10, 35, 87, 126	0
10	j	122/122 (100%)	-1.26	0 100 100	21, 45, 92, 139	0
11	K	149/150 (99%)	-1.22	0 100 100	29, 59, 119, 148	0
11	k	149/150 (99%)	-1.26	0 100 100	11, 60, 127, 173	0
12	L	141/141 (100%)	-1.24	0 100 100	14, 61, 116, 148	0
12	l	141/141 (100%)	-1.24	0 100 100	12, 47, 116, 161	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	M	118/118 (100%)	-1.26	0 100 100	14, 44, 86, 108	0
13	m	118/118 (100%)	-1.23	0 100 100	13, 44, 110, 148	0
14	N	110/112 (98%)	-1.24	0 100 100	39, 86, 141, 194	0
14	n	110/112 (98%)	-1.27	0 100 100	36, 78, 124, 193	0
15	O	131/146 (89%)	-1.35	0 100 100	25, 53, 106, 135	0
15	o	131/146 (89%)	-1.38	0 100 100	17, 40, 93, 166	0
16	P	116/118 (98%)	-1.31	0 100 100	22, 48, 100, 115	0
16	p	116/118 (98%)	-1.27	0 100 100	6, 44, 92, 109	0
17	Q	101/101 (100%)	-1.32	0 100 100	42, 56, 106, 142	0
17	q	101/101 (100%)	-1.33	0 100 100	13, 53, 102, 150	0
18	R	112/113 (99%)	-1.31	0 100 100	20, 49, 101, 136	0
18	r	112/113 (99%)	-1.30	0 100 100	22, 49, 108, 147	0
19	S	95/96 (98%)	-1.27	0 100 100	19, 54, 108, 160	0
19	s	95/96 (98%)	-1.24	0 100 100	22, 50, 117, 151	0
20	T	107/107 (100%)	-1.32	0 100 100	32, 93, 152, 204	0
20	t	107/107 (100%)	-1.28	0 100 100	41, 84, 158, 221	0
21	U	203/206 (98%)	-1.32	0 100 100	33, 72, 128, 170	0
21	u	200/206 (97%)	-1.29	0 100 100	26, 83, 151, 203	0
22	V	77/78 (98%)	-1.21	0 100 100	26, 64, 113, 153	0
22	v	77/78 (98%)	-1.22	0 100 100	26, 70, 132, 142	0
23	W	97/98 (98%)	-1.27	0 100 100	23, 63, 132, 156	0
23	w	97/98 (98%)	-1.31	0 100 100	13, 47, 101, 130	0
24	X	70/72 (97%)	-1.38	0 100 100	30, 59, 118, 133	0
24	x	70/72 (97%)	-1.28	0 100 100	31, 66, 130, 153	0
25	Y	59/60 (98%)	-1.32	0 100 100	21, 72, 160, 249	0
25	y	59/60 (98%)	-1.30	0 100 100	18, 60, 154, 171	0
26	Z	45/71 (63%)	-1.24	0 100 100	89, 181, 265, 271	0
26	z	50/71 (70%)	-1.27	0 100 100	85, 195, 265, 300	0
27	0	59/60 (98%)	-1.27	0 100 100	11, 40, 99, 129	0
27	5	59/60 (98%)	-1.26	0 100 100	20, 53, 98, 121	0
28	13	53/54 (98%)	-1.32	0 100 100	44, 63, 135, 159	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	6	53/54 (98%)	-1.36	0 100 100	33, 74, 126, 168	0
29	2	48/49 (97%)	-1.19	0 100 100	25, 49, 89, 120	0
29	7	48/49 (97%)	-1.25	0 100 100	16, 47, 88, 130	0
30	3	64/65 (98%)	-1.27	0 100 100	24, 57, 118, 160	0
30	8	64/65 (98%)	-1.23	0 100 100	30, 59, 114, 145	0
31	4	37/37 (100%)	-1.24	0 100 100	48, 77, 133, 197	0
31	9	37/37 (100%)	-1.22	0 100 100	12, 61, 126, 131	0
All	All	12681/13106 (96%)	-1.40	0 100 100	6, 66, 178, 600	0

There are no RSRZ outliers to report.

6.2 Non-standard residues in protein, DNA, RNA chains [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
1	PSU	A	1939	20/21	0.96	0.06	229,236,241,242	0
1	PSU	a	1933	20/21	0.97	0.04	184,187,194,200	0
1	4OC	A	1942	21/23	0.98	0.04	230,234,236,236	0
1	5MU	A	1937	21/22	0.98	0.05	196,197,197,198	0
1	5MU	a	1937	21/22	0.98	0.05	236,245,248,249	0
1	PSU	a	1939	20/21	0.98	0.03	199,210,212,213	0
1	4OC	a	1942	21/23	0.98	0.04	218,221,227,227	0
1	2MA	A	2515	23/24	0.99	0.04	43,43,44,44	0
1	2MU	A	2564	21/23	0.99	0.04	41,41,41,41	0
1	PSU	A	2617	20/21	0.99	0.05	52,56,57,57	0
1	PSU	A	1933	20/21	0.99	0.04	164,166,170,176	0
1	5MU	A	1961	21/22	0.99	0.04	34,35,36,39	0
1	5MC	A	1964	21/22	0.99	0.04	62,70,72,72	0
1	5MC	A	1984	21/22	0.99	0.04	57,62,64,81	0
1	5MU	a	1961	21/22	0.99	0.05	45,46,47,47	0
1	5MC	a	1964	21/22	0.99	0.04	62,63,65,65	0
1	5MC	a	1984	21/22	0.99	0.03	65,73,76,78	0
1	2MA	a	2515	23/24	0.99	0.04	37,37,38,38	0
1	2MU	a	2564	21/23	0.99	0.04	56,64,66,66	0
1	PSU	a	2617	20/21	0.99	0.04	38,38,39,40	0

6.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

6.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4392	1/1	0.60	0.01	25,25,25,25	0
32	MG	A	3661	1/1	0.77	0.12	8,8,8,8	0
32	MG	A	3706	1/1	0.85	0.07	95,95,95,95	0
32	MG	A	4067	1/1	0.88	0.06	29,29,29,29	0
32	MG	A	3790	1/1	0.91	0.05	2,2,2,2	0
32	MG	a	4379	1/1	0.92	0.02	26,26,26,26	0
32	MG	A	3849	1/1	0.92	0.03	10,10,10,10	0
32	MG	a	4607	1/1	0.92	0.16	27,27,27,27	0
32	MG	e	312	1/1	0.92	0.14	21,21,21,21	0
32	MG	c	325	1/1	0.93	0.03	27,27,27,27	0
32	MG	d	319	1/1	0.93	0.06	95,95,95,95	0
32	MG	A	3739	1/1	0.93	0.05	4,4,4,4	0
32	MG	h	209	1/1	0.93	0.05	174,174,174,174	0
32	MG	a	4037	1/1	0.94	0.17	3,3,3,3	0
32	MG	a	4125	1/1	0.94	0.05	9,9,9,9	0
32	MG	a	4373	1/1	0.94	0.03	25,25,25,25	0
32	MG	a	4375	1/1	0.94	0.04	21,21,21,21	0
32	MG	A	3756	1/1	0.94	0.06	44,44,44,44	0
32	MG	A	3859	1/1	0.94	0.04	0,0,0,0	0
32	MG	a	4541	1/1	0.94	0.04	30,30,30,30	0
32	MG	A	3815	1/1	0.94	0.06	13,13,13,13	0
32	MG	A	4089	1/1	0.94	0.06	26,26,26,26	0
32	MG	A	4176	1/1	0.94	0.01	21,21,21,21	0
32	MG	A	4380	1/1	0.94	0.07	30,30,30,30	0
32	MG	a	3725	1/1	0.94	0.12	83,83,83,83	0
32	MG	a	3973	1/1	0.95	0.12	8,8,8,8	0
32	MG	a	4013	1/1	0.95	0.08	95,95,95,95	0
32	MG	A	3786	1/1	0.95	0.02	2,2,2,2	0
32	MG	a	4058	1/1	0.95	0.04	19,19,19,19	0
32	MG	A	3697	1/1	0.95	0.05	95,95,95,95	0
32	MG	a	4132	1/1	0.95	0.06	12,12,12,12	0
32	MG	A	3754	1/1	0.95	0.05	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4334	1/1	0.95	0.02	26,26,26,26	0
32	MG	A	3755	1/1	0.95	0.04	49,49,49,49	0
32	MG	T	510	1/1	0.95	0.03	28,28,28,28	0
32	MG	a	3330	1/1	0.95	0.11	104,104,104,104	0
32	MG	A	3733	1/1	0.95	0.07	7,7,7,7	0
32	MG	b	220	1/1	0.95	0.04	30,30,30,30	0
32	MG	a	3879	1/1	0.95	0.12	95,95,95,95	0
32	MG	a	3895	1/1	0.95	0.07	0,0,0,0	0
32	MG	a	3899	1/1	0.95	0.07	5,5,5,5	0
32	MG	a	3906	1/1	0.95	0.13	1,1,1,1	0
32	MG	m	213	1/1	0.95	0.04	29,29,29,29	0
32	MG	K	221	1/1	0.96	0.03	18,18,18,18	0
32	MG	L	209	1/1	0.96	0.05	25,25,25,25	0
32	MG	P	205	1/1	0.96	0.04	95,95,95,95	0
32	MG	A	3696	1/1	0.96	0.06	6,6,6,6	0
32	MG	U	307	1/1	0.96	0.03	23,23,23,23	0
32	MG	A	3868	1/1	0.96	0.07	50,50,50,50	0
32	MG	a	3350	1/1	0.96	0.06	96,96,96,96	0
32	MG	A	3881	1/1	0.96	0.03	95,95,95,95	0
32	MG	A	3988	1/1	0.96	0.03	23,23,23,23	0
32	MG	a	3887	1/1	0.96	0.18	74,74,74,74	0
32	MG	a	3892	1/1	0.96	0.07	3,3,3,3	0
32	MG	A	4023	1/1	0.96	0.04	15,15,15,15	0
32	MG	A	4031	1/1	0.96	0.04	24,24,24,24	0
32	MG	a	3902	1/1	0.96	0.21	75,75,75,75	0
32	MG	A	3792	1/1	0.96	0.04	7,7,7,7	0
32	MG	a	3922	1/1	0.96	0.04	6,6,6,6	0
32	MG	a	3924	1/1	0.96	0.06	95,95,95,95	0
32	MG	a	3949	1/1	0.96	0.04	95,95,95,95	0
32	MG	A	4082	1/1	0.96	0.07	28,28,28,28	0
32	MG	a	3975	1/1	0.96	0.06	17,17,17,17	0
32	MG	A	3810	1/1	0.96	0.09	251,251,251,251	0
32	MG	A	4156	1/1	0.96	0.03	30,30,30,30	0
32	MG	A	3621	1/1	0.96	0.07	32,32,32,32	0
32	MG	A	4233	1/1	0.96	0.09	31,31,31,31	0
32	MG	A	4246	1/1	0.96	0.09	26,26,26,26	0
32	MG	a	4175	1/1	0.96	0.06	95,95,95,95	0
32	MG	a	4269	1/1	0.96	0.01	26,26,26,26	0
32	MG	a	4286	1/1	0.96	0.04	31,31,31,31	0
32	MG	a	4353	1/1	0.96	0.04	21,21,21,21	0
32	MG	A	4264	1/1	0.96	0.04	26,26,26,26	0
32	MG	A	4267	1/1	0.96	0.10	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4274	1/1	0.96	0.04	27,27,27,27	0
32	MG	A	4285	1/1	0.96	0.03	24,24,24,24	0
32	MG	a	4499	1/1	0.96	0.03	31,31,31,31	0
32	MG	a	4509	1/1	0.96	0.04	23,23,23,23	0
32	MG	A	4319	1/1	0.96	0.05	29,29,29,29	0
32	MG	a	4564	1/1	0.96	0.03	26,26,26,26	0
32	MG	a	4574	1/1	0.96	0.04	28,28,28,28	0
32	MG	a	4599	1/1	0.96	0.03	27,27,27,27	0
32	MG	A	3836	1/1	0.96	0.05	64,64,64,64	0
32	MG	a	4614	1/1	0.96	0.03	33,33,33,33	0
32	MG	b	217	1/1	0.96	0.03	45,45,45,45	0
32	MG	A	3685	1/1	0.96	0.07	40,40,40,40	0
32	MG	C	338	1/1	0.96	0.03	29,29,29,29	0
32	MG	C	344	1/1	0.96	0.03	25,25,25,25	0
32	MG	F	204	1/1	0.96	0.01	20,20,20,20	0
32	MG	e	325	1/1	0.96	0.03	34,34,34,34	0
32	MG	e	337	1/1	0.96	0.02	24,24,24,24	0
32	MG	g	208	1/1	0.96	0.02	26,26,26,26	0
32	MG	J	203	1/1	0.96	0.04	57,57,57,57	0
32	MG	i	219	1/1	0.96	0.03	26,26,26,26	0
32	MG	j	217	1/1	0.96	0.07	95,95,95,95	0
32	MG	K	214	1/1	0.96	0.04	95,95,95,95	0
32	MG	n	207	1/1	0.96	0.03	30,30,30,30	0
32	MG	p	212	1/1	0.96	0.09	95,95,95,95	0
32	MG	r	228	1/1	0.96	0.03	28,28,28,28	0
32	MG	u	320	1/1	0.96	0.04	95,95,95,95	0
32	MG	v	110	1/1	0.96	0.03	26,26,26,26	0
32	MG	x	108	1/1	0.96	0.02	50,50,50,50	0
32	MG	7	106	1/1	0.96	0.06	28,28,28,28	0
32	MG	9	104	1/1	0.96	0.02	11,11,11,11	0
32	MG	Q	208	1/1	0.97	0.02	30,30,30,30	0
32	MG	Q	210	1/1	0.97	0.02	27,27,27,27	0
32	MG	R	218	1/1	0.97	0.05	27,27,27,27	0
32	MG	S	104	1/1	0.97	0.09	95,95,95,95	0
32	MG	A	3941	1/1	0.97	0.03	30,30,30,30	0
32	MG	A	3956	1/1	0.97	0.05	95,95,95,95	0
32	MG	W	110	1/1	0.97	0.11	69,69,69,69	0
32	MG	X	108	1/1	0.97	0.03	95,95,95,95	0
32	MG	X	109	1/1	0.97	0.06	95,95,95,95	0
32	MG	Y	101	1/1	0.97	0.09	14,14,14,14	0
32	MG	0	105	1/1	0.97	0.04	29,29,29,29	0
32	MG	a	3275	1/1	0.97	0.05	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3662	1/1	0.97	0.05	95,95,95,95	0
32	MG	A	3993	1/1	0.97	0.05	22,22,22,22	0
32	MG	A	3995	1/1	0.97	0.04	21,21,21,21	0
32	MG	a	3726	1/1	0.97	0.03	93,93,93,93	0
32	MG	a	3810	1/1	0.97	0.03	9,9,9,9	0
32	MG	A	4005	1/1	0.97	0.04	15,15,15,15	0
32	MG	A	3681	1/1	0.97	0.11	95,95,95,95	0
32	MG	A	3762	1/1	0.97	0.07	12,12,12,12	0
32	MG	A	4049	1/1	0.97	0.03	21,21,21,21	0
32	MG	A	3602	1/1	0.97	0.04	96,96,96,96	0
32	MG	A	4073	1/1	0.97	0.06	30,30,30,30	0
32	MG	a	3903	1/1	0.97	0.05	12,12,12,12	0
32	MG	A	3609	1/1	0.97	0.05	2,2,2,2	0
32	MG	A	4084	1/1	0.97	0.02	23,23,23,23	0
32	MG	A	3504	1/1	0.97	0.18	99,99,99,99	0
32	MG	a	3934	1/1	0.97	0.07	14,14,14,14	0
32	MG	a	3947	1/1	0.97	0.05	31,31,31,31	0
32	MG	A	4105	1/1	0.97	0.07	27,27,27,27	0
32	MG	a	3950	1/1	0.97	0.06	34,34,34,34	0
32	MG	a	3957	1/1	0.97	0.10	87,87,87,87	0
32	MG	a	3964	1/1	0.97	0.04	95,95,95,95	0
32	MG	A	4127	1/1	0.97	0.03	14,14,14,14	0
32	MG	A	4130	1/1	0.97	0.03	25,25,25,25	0
32	MG	a	3980	1/1	0.97	0.04	0,0,0,0	0
32	MG	a	3984	1/1	0.97	0.03	0,0,0,0	0
32	MG	a	3990	1/1	0.97	0.05	95,95,95,95	0
32	MG	A	4144	1/1	0.97	0.03	27,27,27,27	0
32	MG	a	4020	1/1	0.97	0.05	43,43,43,43	0
32	MG	a	4024	1/1	0.97	0.06	19,19,19,19	0
32	MG	A	4148	1/1	0.97	0.02	27,27,27,27	0
32	MG	a	4055	1/1	0.97	0.06	14,14,14,14	0
32	MG	A	4151	1/1	0.97	0.03	29,29,29,29	0
32	MG	a	4085	1/1	0.97	0.08	30,30,30,30	0
32	MG	a	4107	1/1	0.97	0.07	95,95,95,95	0
32	MG	A	3803	1/1	0.97	0.05	10,10,10,10	0
32	MG	A	4169	1/1	0.97	0.01	23,23,23,23	0
32	MG	a	4135	1/1	0.97	0.07	1,1,1,1	0
32	MG	a	4138	1/1	0.97	0.06	95,95,95,95	0
32	MG	a	4142	1/1	0.97	0.12	8,8,8,8	0
32	MG	a	4149	1/1	0.97	0.10	43,43,43,43	0
32	MG	a	4153	1/1	0.97	0.08	34,34,34,34	0
32	MG	A	3806	1/1	0.97	0.02	7,7,7,7	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4180	1/1	0.97	0.04	95,95,95,95	0
32	MG	a	4192	1/1	0.97	0.03	26,26,26,26	0
32	MG	a	4197	1/1	0.97	0.05	2,2,2,2	0
32	MG	a	4214	1/1	0.97	0.07	8,8,8,8	0
32	MG	a	4225	1/1	0.97	0.04	62,62,62,62	0
32	MG	a	4235	1/1	0.97	0.04	60,60,60,60	0
32	MG	a	4246	1/1	0.97	0.05	95,95,95,95	0
32	MG	A	4182	1/1	0.97	0.03	26,26,26,26	0
32	MG	a	4284	1/1	0.97	0.03	21,21,21,21	0
32	MG	A	4211	1/1	0.97	0.06	25,25,25,25	0
32	MG	a	4313	1/1	0.97	0.08	24,24,24,24	0
32	MG	A	3633	1/1	0.97	0.21	88,88,88,88	0
32	MG	a	4357	1/1	0.97	0.03	28,28,28,28	0
32	MG	A	4238	1/1	0.97	0.07	32,32,32,32	0
32	MG	A	3638	1/1	0.97	0.05	14,14,14,14	0
32	MG	A	4263	1/1	0.97	0.07	28,28,28,28	0
32	MG	A	3822	1/1	0.97	0.03	11,11,11,11	0
32	MG	a	4394	1/1	0.97	0.04	24,24,24,24	0
32	MG	a	4396	1/1	0.97	0.02	33,33,33,33	0
32	MG	a	4400	1/1	0.97	0.02	28,28,28,28	0
32	MG	a	4401	1/1	0.97	0.02	25,25,25,25	0
32	MG	a	4406	1/1	0.97	0.03	24,24,24,24	0
32	MG	a	4407	1/1	0.97	0.03	25,25,25,25	0
32	MG	a	4418	1/1	0.97	0.04	29,29,29,29	0
32	MG	a	4427	1/1	0.97	0.03	27,27,27,27	0
32	MG	a	4435	1/1	0.97	0.04	21,21,21,21	0
32	MG	a	4438	1/1	0.97	0.04	31,31,31,31	0
32	MG	a	4454	1/1	0.97	0.05	26,26,26,26	0
32	MG	a	4456	1/1	0.97	0.03	24,24,24,24	0
32	MG	a	4459	1/1	0.97	0.04	30,30,30,30	0
32	MG	A	3830	1/1	0.97	0.04	32,32,32,32	0
32	MG	A	3652	1/1	0.97	0.11	95,95,95,95	0
32	MG	A	3848	1/1	0.97	0.07	48,48,48,48	0
32	MG	a	4551	1/1	0.97	0.02	31,31,31,31	0
32	MG	A	4291	1/1	0.97	0.03	23,23,23,23	0
32	MG	a	4572	1/1	0.97	0.01	31,31,31,31	0
32	MG	A	4302	1/1	0.97	0.06	16,16,16,16	0
32	MG	a	4577	1/1	0.97	0.03	29,29,29,29	0
32	MG	a	4593	1/1	0.97	0.03	28,28,28,28	0
32	MG	a	4596	1/1	0.97	0.02	32,32,32,32	0
32	MG	A	3743	1/1	0.97	0.04	8,8,8,8	0
32	MG	A	3853	1/1	0.97	0.05	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4353	1/1	0.97	0.04	27,27,27,27	0
32	MG	A	4361	1/1	0.97	0.02	23,23,23,23	0
32	MG	A	4362	1/1	0.97	0.02	28,28,28,28	0
32	MG	c	317	1/1	0.97	0.06	1,1,1,1	0
32	MG	c	320	1/1	0.97	0.06	52,52,52,52	0
32	MG	A	4379	1/1	0.97	0.08	30,30,30,30	0
32	MG	A	3746	1/1	0.97	0.05	6,6,6,6	0
32	MG	B	228	1/1	0.97	0.02	18,18,18,18	0
32	MG	B	231	1/1	0.97	0.04	70,70,70,70	0
32	MG	e	330	1/1	0.97	0.03	28,28,28,28	0
32	MG	B	232	1/1	0.97	0.08	0,0,0,0	0
32	MG	B	234	1/1	0.97	0.05	95,95,95,95	0
32	MG	g	209	1/1	0.97	0.06	25,25,25,25	0
32	MG	C	332	1/1	0.97	0.02	28,28,28,28	0
32	MG	h	218	1/1	0.97	0.02	25,25,25,25	0
32	MG	i	207	1/1	0.97	0.03	45,45,45,45	0
32	MG	A	3747	1/1	0.97	0.04	17,17,17,17	0
32	MG	i	226	1/1	0.97	0.03	21,21,21,21	0
32	MG	A	3872	1/1	0.97	0.04	95,95,95,95	0
32	MG	A	3601	1/1	0.97	0.02	5,5,5,5	0
32	MG	m	214	1/1	0.97	0.02	27,27,27,27	0
32	MG	H	206	1/1	0.97	0.04	24,24,24,24	0
32	MG	o	217	1/1	0.97	0.06	56,56,56,56	0
32	MG	o	219	1/1	0.97	0.05	95,95,95,95	0
32	MG	o	222	1/1	0.97	0.05	31,31,31,31	0
32	MG	o	224	1/1	0.97	0.02	32,32,32,32	0
32	MG	o	229	1/1	0.97	0.02	26,26,26,26	0
32	MG	A	3894	1/1	0.97	0.03	95,95,95,95	0
32	MG	q	223	1/1	0.97	0.02	22,22,22,22	0
32	MG	r	212	1/1	0.97	0.05	2,2,2,2	0
32	MG	r	213	1/1	0.97	0.05	0,0,0,0	0
32	MG	A	3896	1/1	0.97	0.07	95,95,95,95	0
32	MG	A	3913	1/1	0.97	0.04	95,95,95,95	0
32	MG	A	3928	1/1	0.97	0.04	46,46,46,46	0
32	MG	M	204	1/1	0.97	0.11	95,95,95,95	0
32	MG	O	204	1/1	0.97	0.04	95,95,95,95	0
32	MG	8	110	1/1	0.97	0.05	30,30,30,30	0
32	MG	A	3934	1/1	0.97	0.05	21,21,21,21	0
32	MG	A	4321	1/1	0.98	0.04	22,22,22,22	0
32	MG	A	4324	1/1	0.98	0.03	23,23,23,23	0
32	MG	A	4326	1/1	0.98	0.02	24,24,24,24	0
32	MG	A	4327	1/1	0.98	0.02	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4331	1/1	0.98	0.02	32,32,32,32	0
32	MG	A	4333	1/1	0.98	0.02	22,22,22,22	0
32	MG	A	3693	1/1	0.98	0.04	8,8,8,8	0
32	MG	A	4340	1/1	0.98	0.02	30,30,30,30	0
32	MG	A	4341	1/1	0.98	0.02	26,26,26,26	0
32	MG	A	4344	1/1	0.98	0.04	28,28,28,28	0
32	MG	A	4346	1/1	0.98	0.04	28,28,28,28	0
32	MG	A	4351	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	3827	1/1	0.98	0.06	11,11,11,11	0
32	MG	A	4355	1/1	0.98	0.02	27,27,27,27	0
32	MG	A	4356	1/1	0.98	0.02	26,26,26,26	0
32	MG	A	4357	1/1	0.98	0.03	30,30,30,30	0
32	MG	A	3829	1/1	0.98	0.02	3,3,3,3	0
32	MG	A	3694	1/1	0.98	0.09	7,7,7,7	0
32	MG	A	4376	1/1	0.98	0.06	30,30,30,30	0
32	MG	A	4377	1/1	0.98	0.03	30,30,30,30	0
32	MG	A	4378	1/1	0.98	0.04	30,30,30,30	0
32	MG	A	3632	1/1	0.98	0.07	23,23,23,23	0
32	MG	A	3264	1/1	0.98	0.05	64,64,64,64	0
32	MG	A	3699	1/1	0.98	0.05	42,42,42,42	0
32	MG	B	230	1/1	0.98	0.03	11,11,11,11	0
32	MG	A	3852	1/1	0.98	0.10	14,14,14,14	0
32	MG	A	3701	1/1	0.98	0.07	95,95,95,95	0
32	MG	B	233	1/1	0.98	0.03	57,57,57,57	0
32	MG	A	3702	1/1	0.98	0.06	5,5,5,5	0
32	MG	C	318	1/1	0.98	0.01	1,1,1,1	0
32	MG	C	319	1/1	0.98	0.04	95,95,95,95	0
32	MG	C	320	1/1	0.98	0.04	36,36,36,36	0
32	MG	C	322	1/1	0.98	0.02	33,33,33,33	0
32	MG	C	323	1/1	0.98	0.04	23,23,23,23	0
32	MG	A	3861	1/1	0.98	0.03	1,1,1,1	0
32	MG	C	333	1/1	0.98	0.02	32,32,32,32	0
32	MG	C	335	1/1	0.98	0.05	27,27,27,27	0
32	MG	A	3865	1/1	0.98	0.05	1,1,1,1	0
32	MG	C	339	1/1	0.98	0.02	24,24,24,24	0
32	MG	A	3866	1/1	0.98	0.05	12,12,12,12	0
32	MG	D	306	1/1	0.98	0.14	95,95,95,95	0
32	MG	E	311	1/1	0.98	0.05	95,95,95,95	0
32	MG	E	314	1/1	0.98	0.03	95,95,95,95	0
32	MG	E	316	1/1	0.98	0.03	2,2,2,2	0
32	MG	E	318	1/1	0.98	0.08	95,95,95,95	0
32	MG	E	324	1/1	0.98	0.03	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	E	325	1/1	0.98	0.02	26,26,26,26	0
32	MG	A	3703	1/1	0.98	0.04	37,37,37,37	0
32	MG	F	205	1/1	0.98	0.02	21,21,21,21	0
32	MG	A	3704	1/1	0.98	0.05	11,11,11,11	0
32	MG	H	208	1/1	0.98	0.03	36,36,36,36	0
32	MG	I	209	1/1	0.98	0.08	95,95,95,95	0
32	MG	A	3880	1/1	0.98	0.02	3,3,3,3	0
32	MG	J	205	1/1	0.98	0.03	23,23,23,23	0
32	MG	J	206	1/1	0.98	0.03	15,15,15,15	0
32	MG	K	209	1/1	0.98	0.03	6,6,6,6	0
32	MG	K	210	1/1	0.98	0.02	14,14,14,14	0
32	MG	K	213	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3705	1/1	0.98	0.04	12,12,12,12	0
32	MG	K	215	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3889	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	3893	1/1	0.98	0.03	17,17,17,17	0
32	MG	M	203	1/1	0.98	0.07	3,3,3,3	0
32	MG	A	3493	1/1	0.98	0.06	66,66,66,66	0
32	MG	A	3713	1/1	0.98	0.04	39,39,39,39	0
32	MG	O	209	1/1	0.98	0.02	95,95,95,95	0
32	MG	P	204	1/1	0.98	0.05	95,95,95,95	0
32	MG	A	3898	1/1	0.98	0.06	9,9,9,9	0
32	MG	A	3899	1/1	0.98	0.03	7,7,7,7	0
32	MG	A	3903	1/1	0.98	0.04	2,2,2,2	0
32	MG	R	207	1/1	0.98	0.02	5,5,5,5	0
32	MG	R	209	1/1	0.98	0.04	95,95,95,95	0
32	MG	R	213	1/1	0.98	0.02	23,23,23,23	0
32	MG	R	215	1/1	0.98	0.03	23,23,23,23	0
32	MG	A	3908	1/1	0.98	0.03	44,44,44,44	0
32	MG	A	3911	1/1	0.98	0.02	37,37,37,37	0
32	MG	T	508	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3912	1/1	0.98	0.02	95,95,95,95	0
32	MG	T	514	1/1	0.98	0.02	20,20,20,20	0
32	MG	T	515	1/1	0.98	0.02	25,25,25,25	0
32	MG	T	517	1/1	0.98	0.04	27,27,27,27	0
32	MG	A	3717	1/1	0.98	0.06	6,6,6,6	0
32	MG	U	309	1/1	0.98	0.03	27,27,27,27	0
32	MG	V	105	1/1	0.98	0.04	30,30,30,30	0
32	MG	A	3915	1/1	0.98	0.03	130,130,130,130	0
32	MG	W	112	1/1	0.98	0.06	4,4,4,4	0
32	MG	X	107	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3917	1/1	0.98	0.02	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3918	1/1	0.98	0.02	2,2,2,2	0
32	MG	X	112	1/1	0.98	0.03	30,30,30,30	0
32	MG	X	114	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	3919	1/1	0.98	0.03	17,17,17,17	0
32	MG	0	103	1/1	0.98	0.09	95,95,95,95	0
32	MG	A	3722	1/1	0.98	0.01	10,10,10,10	0
32	MG	2	106	1/1	0.98	0.11	25,25,25,25	0
32	MG	2	108	1/1	0.98	0.05	31,31,31,31	0
32	MG	a	3181	1/1	0.98	0.03	107,107,107,107	0
32	MG	a	3226	1/1	0.98	0.07	63,63,63,63	0
32	MG	A	3929	1/1	0.98	0.02	0,0,0,0	0
32	MG	a	3303	1/1	0.98	0.02	31,31,31,31	0
32	MG	a	3308	1/1	0.98	0.06	79,79,79,79	0
32	MG	A	3932	1/1	0.98	0.08	0,0,0,0	0
32	MG	A	3933	1/1	0.98	0.04	6,6,6,6	0
32	MG	a	3479	1/1	0.98	0.05	79,79,79,79	0
32	MG	a	3532	1/1	0.98	0.04	62,62,62,62	0
32	MG	a	3542	1/1	0.98	0.07	56,56,56,56	0
32	MG	a	3714	1/1	0.98	0.07	76,76,76,76	0
32	MG	A	3723	1/1	0.98	0.06	95,95,95,95	0
32	MG	A	3940	1/1	0.98	0.08	70,70,70,70	0
32	MG	a	3804	1/1	0.98	0.09	10,10,10,10	0
32	MG	a	3806	1/1	0.98	0.04	7,7,7,7	0
32	MG	A	3728	1/1	0.98	0.03	3,3,3,3	0
32	MG	a	3814	1/1	0.98	0.16	16,16,16,16	0
32	MG	a	3816	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	3821	1/1	0.98	0.04	2,2,2,2	0
32	MG	a	3823	1/1	0.98	0.04	38,38,38,38	0
32	MG	a	3824	1/1	0.98	0.08	15,15,15,15	0
32	MG	a	3829	1/1	0.98	0.05	10,10,10,10	0
32	MG	a	3841	1/1	0.98	0.04	2,2,2,2	0
32	MG	a	3854	1/1	0.98	0.12	95,95,95,95	0
32	MG	a	3858	1/1	0.98	0.03	39,39,39,39	0
32	MG	a	3869	1/1	0.98	0.07	2,2,2,2	0
32	MG	a	3871	1/1	0.98	0.06	10,10,10,10	0
32	MG	a	3876	1/1	0.98	0.04	7,7,7,7	0
32	MG	a	3877	1/1	0.98	0.08	7,7,7,7	0
32	MG	A	3943	1/1	0.98	0.11	95,95,95,95	0
32	MG	a	3881	1/1	0.98	0.06	52,52,52,52	0
32	MG	a	3882	1/1	0.98	0.09	95,95,95,95	0
32	MG	A	3946	1/1	0.98	0.04	16,16,16,16	0
32	MG	a	3890	1/1	0.98	0.03	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3947	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	3894	1/1	0.98	0.08	11,11,11,11	0
32	MG	A	3949	1/1	0.98	0.06	95,95,95,95	0
32	MG	a	3896	1/1	0.98	0.05	1,1,1,1	0
32	MG	A	3951	1/1	0.98	0.05	24,24,24,24	0
32	MG	a	3901	1/1	0.98	0.07	57,57,57,57	0
32	MG	A	3731	1/1	0.98	0.06	95,95,95,95	0
32	MG	A	3957	1/1	0.98	0.04	49,49,49,49	0
32	MG	A	3958	1/1	0.98	0.04	10,10,10,10	0
32	MG	a	3909	1/1	0.98	0.05	39,39,39,39	0
32	MG	a	3913	1/1	0.98	0.10	29,29,29,29	0
32	MG	A	3959	1/1	0.98	0.02	8,8,8,8	0
32	MG	a	3923	1/1	0.98	0.09	10,10,10,10	0
32	MG	A	3961	1/1	0.98	0.08	95,95,95,95	0
32	MG	A	3971	1/1	0.98	0.09	8,8,8,8	0
32	MG	a	3938	1/1	0.98	0.12	31,31,31,31	0
32	MG	a	3940	1/1	0.98	0.04	25,25,25,25	0
32	MG	a	3941	1/1	0.98	0.06	95,95,95,95	0
32	MG	a	3944	1/1	0.98	0.04	10,10,10,10	0
32	MG	A	3987	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	3639	1/1	0.98	0.07	19,19,19,19	0
32	MG	A	3989	1/1	0.98	0.03	20,20,20,20	0
32	MG	a	3956	1/1	0.98	0.02	12,12,12,12	0
32	MG	A	3991	1/1	0.98	0.03	23,23,23,23	0
32	MG	a	3960	1/1	0.98	0.04	95,95,95,95	0
32	MG	A	3734	1/1	0.98	0.06	95,95,95,95	0
32	MG	a	3970	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	3971	1/1	0.98	0.04	21,21,21,21	0
32	MG	a	3972	1/1	0.98	0.10	6,6,6,6	0
32	MG	A	3641	1/1	0.98	0.04	25,25,25,25	0
32	MG	A	3998	1/1	0.98	0.06	60,60,60,60	0
32	MG	a	3976	1/1	0.98	0.12	6,6,6,6	0
32	MG	a	3977	1/1	0.98	0.06	40,40,40,40	0
32	MG	A	4004	1/1	0.98	0.04	23,23,23,23	0
32	MG	a	3982	1/1	0.98	0.08	95,95,95,95	0
32	MG	A	3742	1/1	0.98	0.03	3,3,3,3	0
32	MG	a	3987	1/1	0.98	0.04	26,26,26,26	0
32	MG	a	3988	1/1	0.98	0.05	40,40,40,40	0
32	MG	A	4009	1/1	0.98	0.09	40,40,40,40	0
32	MG	a	3996	1/1	0.98	0.05	95,95,95,95	0
32	MG	a	4008	1/1	0.98	0.07	25,25,25,25	0
32	MG	A	4016	1/1	0.98	0.02	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4014	1/1	0.98	0.04	60,60,60,60	0
32	MG	a	4015	1/1	0.98	0.04	10,10,10,10	0
32	MG	a	4016	1/1	0.98	0.01	4,4,4,4	0
32	MG	A	4019	1/1	0.98	0.04	29,29,29,29	0
32	MG	a	4021	1/1	0.98	0.03	51,51,51,51	0
32	MG	A	4020	1/1	0.98	0.05	64,64,64,64	0
32	MG	a	4029	1/1	0.98	0.04	95,95,95,95	0
32	MG	a	4030	1/1	0.98	0.02	0,0,0,0	0
32	MG	a	4033	1/1	0.98	0.07	11,11,11,11	0
32	MG	A	4022	1/1	0.98	0.02	16,16,16,16	0
32	MG	a	4039	1/1	0.98	0.04	2,2,2,2	0
32	MG	a	4043	1/1	0.98	0.05	95,95,95,95	0
32	MG	a	4048	1/1	0.98	0.04	21,21,21,21	0
32	MG	a	4051	1/1	0.98	0.10	95,95,95,95	0
32	MG	a	4052	1/1	0.98	0.05	40,40,40,40	0
32	MG	A	3645	1/1	0.98	0.05	12,12,12,12	0
32	MG	A	4024	1/1	0.98	0.02	23,23,23,23	0
32	MG	a	4061	1/1	0.98	0.03	43,43,43,43	0
32	MG	a	4066	1/1	0.98	0.04	10,10,10,10	0
32	MG	a	4069	1/1	0.98	0.04	47,47,47,47	0
32	MG	a	4073	1/1	0.98	0.04	95,95,95,95	0
32	MG	a	4081	1/1	0.98	0.10	95,95,95,95	0
32	MG	a	4082	1/1	0.98	0.03	0,0,0,0	0
32	MG	a	4083	1/1	0.98	0.04	13,13,13,13	0
32	MG	a	4084	1/1	0.98	0.05	34,34,34,34	0
32	MG	A	4028	1/1	0.98	0.04	32,32,32,32	0
32	MG	a	4086	1/1	0.98	0.06	14,14,14,14	0
32	MG	a	4087	1/1	0.98	0.03	8,8,8,8	0
32	MG	a	4096	1/1	0.98	0.03	29,29,29,29	0
32	MG	a	4101	1/1	0.98	0.03	4,4,4,4	0
32	MG	a	4104	1/1	0.98	0.02	3,3,3,3	0
32	MG	A	3745	1/1	0.98	0.04	3,3,3,3	0
32	MG	a	4109	1/1	0.98	0.04	43,43,43,43	0
32	MG	a	4111	1/1	0.98	0.03	47,47,47,47	0
32	MG	a	4117	1/1	0.98	0.06	95,95,95,95	0
32	MG	a	4120	1/1	0.98	0.07	71,71,71,71	0
32	MG	a	4122	1/1	0.98	0.03	16,16,16,16	0
32	MG	a	4123	1/1	0.98	0.02	2,2,2,2	0
32	MG	A	4032	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4131	1/1	0.98	0.10	95,95,95,95	0
32	MG	A	4039	1/1	0.98	0.03	24,24,24,24	0
32	MG	a	4134	1/1	0.98	0.09	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4042	1/1	0.98	0.02	16,16,16,16	0
32	MG	a	4137	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	4047	1/1	0.98	0.07	25,25,25,25	0
32	MG	a	4139	1/1	0.98	0.04	4,4,4,4	0
32	MG	A	3648	1/1	0.98	0.06	3,3,3,3	0
32	MG	a	4145	1/1	0.98	0.04	28,28,28,28	0
32	MG	a	4147	1/1	0.98	0.09	6,6,6,6	0
32	MG	a	4148	1/1	0.98	0.03	49,49,49,49	0
32	MG	A	4052	1/1	0.98	0.02	22,22,22,22	0
32	MG	a	4150	1/1	0.98	0.05	5,5,5,5	0
32	MG	A	4057	1/1	0.98	0.02	22,22,22,22	0
32	MG	a	4157	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	4163	1/1	0.98	0.06	95,95,95,95	0
32	MG	a	4164	1/1	0.98	0.03	95,95,95,95	0
32	MG	a	4168	1/1	0.98	0.03	95,95,95,95	0
32	MG	a	4169	1/1	0.98	0.05	95,95,95,95	0
32	MG	A	4058	1/1	0.98	0.05	30,30,30,30	0
32	MG	a	4178	1/1	0.98	0.02	1,1,1,1	0
32	MG	a	4179	1/1	0.98	0.04	2,2,2,2	0
32	MG	A	4061	1/1	0.98	0.02	25,25,25,25	0
32	MG	a	4183	1/1	0.98	0.05	95,95,95,95	0
32	MG	a	4185	1/1	0.98	0.08	95,95,95,95	0
32	MG	a	4190	1/1	0.98	0.03	3,3,3,3	0
32	MG	A	3231	1/1	0.98	0.04	70,70,70,70	0
32	MG	A	4072	1/1	0.98	0.07	35,35,35,35	0
32	MG	a	4198	1/1	0.98	0.05	95,95,95,95	0
32	MG	a	4201	1/1	0.98	0.05	95,95,95,95	0
32	MG	a	4206	1/1	0.98	0.06	29,29,29,29	0
32	MG	a	4208	1/1	0.98	0.06	57,57,57,57	0
32	MG	a	4211	1/1	0.98	0.03	3,3,3,3	0
32	MG	A	3749	1/1	0.98	0.03	95,95,95,95	0
32	MG	a	4221	1/1	0.98	0.05	14,14,14,14	0
32	MG	a	4222	1/1	0.98	0.10	95,95,95,95	0
32	MG	a	4224	1/1	0.98	0.04	95,95,95,95	0
32	MG	A	4074	1/1	0.98	0.02	25,25,25,25	0
32	MG	A	4080	1/1	0.98	0.05	36,36,36,36	0
32	MG	a	4242	1/1	0.98	0.04	23,23,23,23	0
32	MG	a	4244	1/1	0.98	0.09	64,64,64,64	0
32	MG	a	4245	1/1	0.98	0.04	4,4,4,4	0
32	MG	A	3753	1/1	0.98	0.04	95,95,95,95	0
32	MG	a	4255	1/1	0.98	0.10	95,95,95,95	0
32	MG	a	4258	1/1	0.98	0.05	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4260	1/1	0.98	0.07	36,36,36,36	0
32	MG	a	4261	1/1	0.98	0.02	27,27,27,27	0
32	MG	a	4264	1/1	0.98	0.02	22,22,22,22	0
32	MG	a	4266	1/1	0.98	0.01	23,23,23,23	0
32	MG	a	4267	1/1	0.98	0.02	29,29,29,29	0
32	MG	A	3656	1/1	0.98	0.04	29,29,29,29	0
32	MG	a	4277	1/1	0.98	0.05	34,34,34,34	0
32	MG	a	4280	1/1	0.98	0.02	24,24,24,24	0
32	MG	a	4282	1/1	0.98	0.03	28,28,28,28	0
32	MG	a	4283	1/1	0.98	0.02	24,24,24,24	0
32	MG	A	4086	1/1	0.98	0.06	29,29,29,29	0
32	MG	A	3660	1/1	0.98	0.07	16,16,16,16	0
32	MG	a	4291	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4295	1/1	0.98	0.07	23,23,23,23	0
32	MG	a	4296	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4297	1/1	0.98	0.04	26,26,26,26	0
32	MG	a	4298	1/1	0.98	0.03	32,32,32,32	0
32	MG	a	4299	1/1	0.98	0.02	30,30,30,30	0
32	MG	a	4301	1/1	0.98	0.02	28,28,28,28	0
32	MG	a	4310	1/1	0.98	0.03	24,24,24,24	0
32	MG	a	4311	1/1	0.98	0.01	25,25,25,25	0
32	MG	a	4312	1/1	0.98	0.02	23,23,23,23	0
32	MG	A	4091	1/1	0.98	0.03	29,29,29,29	0
32	MG	a	4314	1/1	0.98	0.04	30,30,30,30	0
32	MG	a	4315	1/1	0.98	0.08	30,30,30,30	0
32	MG	a	4316	1/1	0.98	0.04	31,31,31,31	0
32	MG	a	4317	1/1	0.98	0.02	22,22,22,22	0
32	MG	a	4320	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4321	1/1	0.98	0.02	19,19,19,19	0
32	MG	a	4325	1/1	0.98	0.04	28,28,28,28	0
32	MG	a	4329	1/1	0.98	0.03	32,32,32,32	0
32	MG	a	4330	1/1	0.98	0.03	26,26,26,26	0
32	MG	a	4333	1/1	0.98	0.03	23,23,23,23	0
32	MG	a	4335	1/1	0.98	0.02	22,22,22,22	0
32	MG	a	4336	1/1	0.98	0.02	27,27,27,27	0
32	MG	a	4344	1/1	0.98	0.06	24,24,24,24	0
32	MG	a	4350	1/1	0.98	0.03	21,21,21,21	0
32	MG	A	4097	1/1	0.98	0.02	26,26,26,26	0
32	MG	a	4356	1/1	0.98	0.04	27,27,27,27	0
32	MG	A	4100	1/1	0.98	0.04	31,31,31,31	0
32	MG	a	4360	1/1	0.98	0.02	22,22,22,22	0
32	MG	a	4366	1/1	0.98	0.02	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4369	1/1	0.98	0.04	27,27,27,27	0
32	MG	a	4370	1/1	0.98	0.03	24,24,24,24	0
32	MG	A	4101	1/1	0.98	0.04	34,34,34,34	0
32	MG	a	4374	1/1	0.98	0.03	19,19,19,19	0
32	MG	A	4104	1/1	0.98	0.03	27,27,27,27	0
32	MG	a	4378	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	3542	1/1	0.98	0.03	94,94,94,94	0
32	MG	A	4106	1/1	0.98	0.06	30,30,30,30	0
32	MG	A	4108	1/1	0.98	0.04	27,27,27,27	0
32	MG	a	4395	1/1	0.98	0.02	32,32,32,32	0
32	MG	A	4115	1/1	0.98	0.06	27,27,27,27	0
32	MG	A	4116	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	4118	1/1	0.98	0.05	21,21,21,21	0
32	MG	a	4403	1/1	0.98	0.03	26,26,26,26	0
32	MG	a	4405	1/1	0.98	0.04	28,28,28,28	0
32	MG	A	4119	1/1	0.98	0.04	24,24,24,24	0
32	MG	A	4121	1/1	0.98	0.07	21,21,21,21	0
32	MG	a	4413	1/1	0.98	0.03	25,25,25,25	0
32	MG	A	3757	1/1	0.98	0.06	95,95,95,95	0
32	MG	a	4422	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	3622	1/1	0.98	0.05	14,14,14,14	0
32	MG	a	4430	1/1	0.98	0.05	31,31,31,31	0
32	MG	A	4132	1/1	0.98	0.07	32,32,32,32	0
32	MG	A	4134	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4441	1/1	0.98	0.03	27,27,27,27	0
32	MG	a	4445	1/1	0.98	0.05	21,21,21,21	0
32	MG	a	4446	1/1	0.98	0.03	31,31,31,31	0
32	MG	a	4449	1/1	0.98	0.03	30,30,30,30	0
32	MG	a	4452	1/1	0.98	0.09	32,32,32,32	0
32	MG	A	4135	1/1	0.98	0.04	27,27,27,27	0
32	MG	A	4138	1/1	0.98	0.02	29,29,29,29	0
32	MG	A	3766	1/1	0.98	0.03	3,3,3,3	0
32	MG	a	4469	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4475	1/1	0.98	0.04	25,25,25,25	0
32	MG	a	4482	1/1	0.98	0.03	24,24,24,24	0
32	MG	a	4484	1/1	0.98	0.02	24,24,24,24	0
32	MG	a	4486	1/1	0.98	0.03	30,30,30,30	0
32	MG	a	4488	1/1	0.98	0.03	23,23,23,23	0
32	MG	a	4493	1/1	0.98	0.03	26,26,26,26	0
32	MG	a	4498	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	4146	1/1	0.98	0.02	23,23,23,23	0
32	MG	a	4500	1/1	0.98	0.07	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4503	1/1	0.98	0.04	24,24,24,24	0
32	MG	a	4505	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	3768	1/1	0.98	0.07	67,67,67,67	0
32	MG	a	4514	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4515	1/1	0.98	0.03	31,31,31,31	0
32	MG	a	4519	1/1	0.98	0.02	20,20,20,20	0
32	MG	a	4523	1/1	0.98	0.02	24,24,24,24	0
32	MG	a	4528	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4529	1/1	0.98	0.04	30,30,30,30	0
32	MG	a	4531	1/1	0.98	0.03	26,26,26,26	0
32	MG	a	4535	1/1	0.98	0.06	28,28,28,28	0
32	MG	A	3770	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	4548	1/1	0.98	0.03	34,34,34,34	0
32	MG	A	4155	1/1	0.98	0.03	23,23,23,23	0
32	MG	a	4560	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	3776	1/1	0.98	0.04	9,9,9,9	0
32	MG	a	4565	1/1	0.98	0.02	26,26,26,26	0
32	MG	A	4159	1/1	0.98	0.05	29,29,29,29	0
32	MG	A	4160	1/1	0.98	0.10	26,26,26,26	0
32	MG	a	4576	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	4166	1/1	0.98	0.03	29,29,29,29	0
32	MG	a	4579	1/1	0.98	0.03	29,29,29,29	0
32	MG	a	4580	1/1	0.98	0.03	22,22,22,22	0
32	MG	a	4581	1/1	0.98	0.02	26,26,26,26	0
32	MG	a	4586	1/1	0.98	0.02	26,26,26,26	0
32	MG	a	4588	1/1	0.98	0.02	27,27,27,27	0
32	MG	a	4590	1/1	0.98	0.07	26,26,26,26	0
32	MG	A	3777	1/1	0.98	0.04	20,20,20,20	0
32	MG	A	4171	1/1	0.98	0.03	35,35,35,35	0
32	MG	A	3783	1/1	0.98	0.06	143,143,143,143	0
32	MG	a	4602	1/1	0.98	0.04	32,32,32,32	0
32	MG	a	4603	1/1	0.98	0.05	23,23,23,23	0
32	MG	A	4178	1/1	0.98	0.02	25,25,25,25	0
32	MG	a	4612	1/1	0.98	0.03	31,31,31,31	0
32	MG	a	4613	1/1	0.98	0.05	26,26,26,26	0
32	MG	A	3664	1/1	0.98	0.04	11,11,11,11	0
32	MG	A	4187	1/1	0.98	0.01	27,27,27,27	0
32	MG	A	4193	1/1	0.98	0.05	28,28,28,28	0
32	MG	c	314	1/1	0.98	0.02	6,6,6,6	0
32	MG	c	315	1/1	0.98	0.08	95,95,95,95	0
32	MG	A	4197	1/1	0.98	0.04	24,24,24,24	0
32	MG	A	4200	1/1	0.98	0.02	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	c	322	1/1	0.98	0.02	28,28,28,28	0
32	MG	c	323	1/1	0.98	0.03	31,31,31,31	0
32	MG	A	4205	1/1	0.98	0.04	27,27,27,27	0
32	MG	c	332	1/1	0.98	0.02	26,26,26,26	0
32	MG	c	333	1/1	0.98	0.12	29,29,29,29	0
32	MG	A	4206	1/1	0.98	0.03	27,27,27,27	0
32	MG	d	320	1/1	0.98	0.02	1,1,1,1	0
32	MG	A	4209	1/1	0.98	0.02	27,27,27,27	0
32	MG	e	316	1/1	0.98	0.03	33,33,33,33	0
32	MG	e	319	1/1	0.98	0.02	3,3,3,3	0
32	MG	A	4210	1/1	0.98	0.04	27,27,27,27	0
32	MG	e	327	1/1	0.98	0.03	22,22,22,22	0
32	MG	A	3787	1/1	0.98	0.03	95,95,95,95	0
32	MG	e	332	1/1	0.98	0.03	29,29,29,29	0
32	MG	e	334	1/1	0.98	0.02	27,27,27,27	0
32	MG	e	335	1/1	0.98	0.02	26,26,26,26	0
32	MG	e	336	1/1	0.98	0.02	28,28,28,28	0
32	MG	A	4222	1/1	0.98	0.02	29,29,29,29	0
32	MG	A	4230	1/1	0.98	0.05	30,30,30,30	0
32	MG	A	4231	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	3671	1/1	0.98	0.12	1,1,1,1	0
32	MG	h	211	1/1	0.98	0.02	23,23,23,23	0
32	MG	h	213	1/1	0.98	0.03	22,22,22,22	0
32	MG	A	3672	1/1	0.98	0.07	8,8,8,8	0
32	MG	A	4239	1/1	0.98	0.04	32,32,32,32	0
32	MG	i	208	1/1	0.98	0.03	2,2,2,2	0
32	MG	i	212	1/1	0.98	0.03	25,25,25,25	0
32	MG	i	214	1/1	0.98	0.03	28,28,28,28	0
32	MG	i	218	1/1	0.98	0.02	26,26,26,26	0
32	MG	A	3679	1/1	0.98	0.03	3,3,3,3	0
32	MG	i	220	1/1	0.98	0.02	29,29,29,29	0
32	MG	i	224	1/1	0.98	0.06	32,32,32,32	0
32	MG	A	4247	1/1	0.98	0.06	30,30,30,30	0
32	MG	A	4254	1/1	0.98	0.03	30,30,30,30	0
32	MG	j	218	1/1	0.98	0.03	44,44,44,44	0
32	MG	j	220	1/1	0.98	0.02	22,22,22,22	0
32	MG	k	208	1/1	0.98	0.02	27,27,27,27	0
32	MG	k	211	1/1	0.98	0.03	25,25,25,25	0
32	MG	k	212	1/1	0.98	0.02	24,24,24,24	0
32	MG	k	219	1/1	0.98	0.05	26,26,26,26	0
32	MG	l	212	1/1	0.98	0.03	48,48,48,48	0
32	MG	l	215	1/1	0.98	0.04	4,4,4,4	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	l	216	1/1	0.98	0.08	95,95,95,95	0
32	MG	A	4256	1/1	0.98	0.07	32,32,32,32	0
32	MG	A	3625	1/1	0.98	0.03	15,15,15,15	0
32	MG	m	215	1/1	0.98	0.03	32,32,32,32	0
32	MG	m	218	1/1	0.98	0.02	29,29,29,29	0
32	MG	n	202	1/1	0.98	0.03	23,23,23,23	0
32	MG	n	203	1/1	0.98	0.03	25,25,25,25	0
32	MG	n	204	1/1	0.98	0.02	27,27,27,27	0
32	MG	A	3809	1/1	0.98	0.10	24,24,24,24	0
32	MG	o	213	1/1	0.98	0.06	95,95,95,95	0
32	MG	o	214	1/1	0.98	0.03	39,39,39,39	0
32	MG	o	215	1/1	0.98	0.05	95,95,95,95	0
32	MG	A	4265	1/1	0.98	0.03	26,26,26,26	0
32	MG	o	218	1/1	0.98	0.03	7,7,7,7	0
32	MG	A	3683	1/1	0.98	0.06	7,7,7,7	0
32	MG	o	220	1/1	0.98	0.02	9,9,9,9	0
32	MG	A	4273	1/1	0.98	0.07	28,28,28,28	0
32	MG	A	3812	1/1	0.98	0.03	0,0,0,0	0
32	MG	o	226	1/1	0.98	0.02	32,32,32,32	0
32	MG	A	4278	1/1	0.98	0.04	34,34,34,34	0
32	MG	p	209	1/1	0.98	0.10	69,69,69,69	0
32	MG	p	210	1/1	0.98	0.04	7,7,7,7	0
32	MG	A	4279	1/1	0.98	0.03	26,26,26,26	0
32	MG	p	213	1/1	0.98	0.02	27,27,27,27	0
32	MG	p	216	1/1	0.98	0.04	31,31,31,31	0
32	MG	q	215	1/1	0.98	0.02	29,29,29,29	0
32	MG	q	217	1/1	0.98	0.03	27,27,27,27	0
32	MG	q	220	1/1	0.98	0.02	29,29,29,29	0
32	MG	q	221	1/1	0.98	0.02	26,26,26,26	0
32	MG	A	4280	1/1	0.98	0.07	32,32,32,32	0
32	MG	q	228	1/1	0.98	0.02	24,24,24,24	0
32	MG	q	230	1/1	0.98	0.04	29,29,29,29	0
32	MG	A	3814	1/1	0.98	0.05	8,8,8,8	0
32	MG	A	4286	1/1	0.98	0.02	24,24,24,24	0
32	MG	r	217	1/1	0.98	0.05	28,28,28,28	0
32	MG	r	226	1/1	0.98	0.03	23,23,23,23	0
32	MG	A	4290	1/1	0.98	0.06	28,28,28,28	0
32	MG	s	105	1/1	0.98	0.06	18,18,18,18	0
32	MG	u	318	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3628	1/1	0.98	0.08	8,8,8,8	0
32	MG	u	321	1/1	0.98	0.06	12,12,12,12	0
32	MG	v	107	1/1	0.98	0.02	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4293	1/1	0.98	0.03	28,28,28,28	0
32	MG	w	106	1/1	0.98	0.05	95,95,95,95	0
32	MG	w	108	1/1	0.98	0.08	37,37,37,37	0
32	MG	w	110	1/1	0.98	0.06	24,24,24,24	0
32	MG	A	4296	1/1	0.98	0.03	27,27,27,27	0
32	MG	x	110	1/1	0.98	0.05	95,95,95,95	0
32	MG	x	111	1/1	0.98	0.04	21,21,21,21	0
32	MG	y	606	1/1	0.98	0.09	95,95,95,95	0
32	MG	z	503	1/1	0.98	0.03	29,29,29,29	0
32	MG	5	102	1/1	0.98	0.02	183,183,183,183	0
32	MG	5	105	1/1	0.98	0.03	95,95,95,95	0
32	MG	6	507	1/1	0.98	0.03	31,31,31,31	0
32	MG	A	3816	1/1	0.98	0.03	8,8,8,8	0
32	MG	8	106	1/1	0.98	0.10	38,38,38,38	0
32	MG	A	4309	1/1	0.98	0.04	25,25,25,25	0
32	MG	A	3819	1/1	0.98	0.02	1,1,1,1	0
33	ZN	Z	501	1/1	0.98	0.03	211,211,211,211	0
32	MG	A	4342	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4343	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	3798	1/1	0.99	0.01	6,6,6,6	0
32	MG	A	4345	1/1	0.99	0.04	32,32,32,32	0
32	MG	A	3800	1/1	0.99	0.03	13,13,13,13	0
32	MG	A	4347	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	4348	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4349	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4350	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	3801	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4352	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	3562	1/1	0.99	0.06	70,70,70,70	0
32	MG	A	4354	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3804	1/1	0.99	0.03	62,62,62,62	0
32	MG	A	3805	1/1	0.99	0.03	2,2,2,2	0
32	MG	A	3574	1/1	0.99	0.02	76,76,76,76	0
32	MG	A	4358	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4359	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4360	1/1	0.99	0.02	19,19,19,19	0
32	MG	A	3807	1/1	0.99	0.04	31,31,31,31	0
32	MG	A	3808	1/1	0.99	0.02	34,34,34,34	0
32	MG	A	4363	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	4365	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4366	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	4367	1/1	0.99	0.03	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4368	1/1	0.99	0.01	23,23,23,23	0
32	MG	A	4369	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	4371	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4372	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4373	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4374	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4375	1/1	0.99	0.04	30,30,30,30	0
32	MG	A	3577	1/1	0.99	0.04	70,70,70,70	0
32	MG	A	3579	1/1	0.99	0.07	61,61,61,61	0
32	MG	A	3811	1/1	0.99	0.03	19,19,19,19	0
32	MG	A	3581	1/1	0.99	0.06	77,77,77,77	0
32	MG	A	3813	1/1	0.99	0.05	6,6,6,6	0
32	MG	A	4381	1/1	0.99	0.04	30,30,30,30	0
32	MG	A	4382	1/1	0.99	0.05	30,30,30,30	0
32	MG	B	212	1/1	0.99	0.03	102,102,102,102	0
32	MG	B	221	1/1	0.99	0.03	61,61,61,61	0
32	MG	B	224	1/1	0.99	0.03	76,76,76,76	0
32	MG	B	225	1/1	0.99	0.02	4,4,4,4	0
32	MG	B	226	1/1	0.99	0.04	95,95,95,95	0
32	MG	B	227	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3582	1/1	0.99	0.04	65,65,65,65	0
32	MG	B	229	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3583	1/1	0.99	0.05	66,66,66,66	0
32	MG	A	3600	1/1	0.99	0.03	59,59,59,59	0
32	MG	A	3817	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3048	1/1	0.99	0.02	79,79,79,79	0
32	MG	A	3820	1/1	0.99	0.02	16,16,16,16	0
32	MG	B	235	1/1	0.99	0.02	95,95,95,95	0
32	MG	B	236	1/1	0.99	0.02	3,3,3,3	0
32	MG	B	237	1/1	0.99	0.02	23,23,23,23	0
32	MG	C	316	1/1	0.99	0.06	7,7,7,7	0
32	MG	C	317	1/1	0.99	0.07	8,8,8,8	0
32	MG	A	3821	1/1	0.99	0.02	9,9,9,9	0
32	MG	A	3050	1/1	0.99	0.02	89,89,89,89	0
32	MG	A	3823	1/1	0.99	0.02	34,34,34,34	0
32	MG	A	3824	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3825	1/1	0.99	0.03	10,10,10,10	0
32	MG	C	324	1/1	0.99	0.03	20,20,20,20	0
32	MG	C	325	1/1	0.99	0.02	27,27,27,27	0
32	MG	C	326	1/1	0.99	0.01	28,28,28,28	0
32	MG	C	327	1/1	0.99	0.01	27,27,27,27	0
32	MG	C	328	1/1	0.99	0.09	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	C	329	1/1	0.99	0.02	30,30,30,30	0
32	MG	C	330	1/1	0.99	0.04	28,28,28,28	0
32	MG	A	3826	1/1	0.99	0.06	5,5,5,5	0
32	MG	A	3603	1/1	0.99	0.04	95,95,95,95	0
32	MG	C	334	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	3828	1/1	0.99	0.09	29,29,29,29	0
32	MG	C	336	1/1	0.99	0.01	27,27,27,27	0
32	MG	C	337	1/1	0.99	0.01	30,30,30,30	0
32	MG	A	3604	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3605	1/1	0.99	0.03	17,17,17,17	0
32	MG	C	341	1/1	0.99	0.02	21,21,21,21	0
32	MG	C	342	1/1	0.99	0.02	26,26,26,26	0
32	MG	C	343	1/1	0.99	0.01	29,29,29,29	0
32	MG	A	3831	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3832	1/1	0.99	0.05	18,18,18,18	0
32	MG	D	307	1/1	0.99	0.02	15,15,15,15	0
32	MG	D	308	1/1	0.99	0.04	31,31,31,31	0
32	MG	A	3834	1/1	0.99	0.03	95,95,95,95	0
32	MG	E	312	1/1	0.99	0.03	5,5,5,5	0
32	MG	E	313	1/1	0.99	0.03	4,4,4,4	0
32	MG	A	3835	1/1	0.99	0.03	52,52,52,52	0
32	MG	E	315	1/1	0.99	0.01	11,11,11,11	0
32	MG	A	3606	1/1	0.99	0.05	6,6,6,6	0
32	MG	E	317	1/1	0.99	0.01	95,95,95,95	0
32	MG	A	3837	1/1	0.99	0.05	1,1,1,1	0
32	MG	E	319	1/1	0.99	0.02	18,18,18,18	0
32	MG	E	320	1/1	0.99	0.01	19,19,19,19	0
32	MG	E	321	1/1	0.99	0.02	18,18,18,18	0
32	MG	E	323	1/1	0.99	0.06	21,21,21,21	0
32	MG	A	3838	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3840	1/1	0.99	0.03	95,95,95,95	0
32	MG	E	326	1/1	0.99	0.03	23,23,23,23	0
32	MG	E	327	1/1	0.99	0.01	25,25,25,25	0
32	MG	E	328	1/1	0.99	0.02	28,28,28,28	0
32	MG	E	329	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	3841	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3842	1/1	0.99	0.03	5,5,5,5	0
32	MG	G	201	1/1	0.99	0.01	22,22,22,22	0
32	MG	H	201	1/1	0.99	0.01	23,23,23,23	0
32	MG	H	202	1/1	0.99	0.03	28,28,28,28	0
32	MG	H	205	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	3844	1/1	0.99	0.04	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	H	207	1/1	0.99	0.01	18,18,18,18	0
32	MG	A	3845	1/1	0.99	0.07	95,95,95,95	0
32	MG	A	3846	1/1	0.99	0.03	5,5,5,5	0
32	MG	I	210	1/1	0.99	0.03	8,8,8,8	0
32	MG	I	211	1/1	0.99	0.03	17,17,17,17	0
32	MG	J	201	1/1	0.99	0.03	89,89,89,89	0
32	MG	A	3847	1/1	0.99	0.05	95,95,95,95	0
32	MG	J	204	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	3607	1/1	0.99	0.06	7,7,7,7	0
32	MG	A	3608	1/1	0.99	0.14	23,23,23,23	0
32	MG	J	207	1/1	0.99	0.02	23,23,23,23	0
32	MG	J	208	1/1	0.99	0.02	27,27,27,27	0
32	MG	J	209	1/1	0.99	0.06	28,28,28,28	0
32	MG	K	207	1/1	0.99	0.07	95,95,95,95	0
32	MG	K	208	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3850	1/1	0.99	0.04	37,37,37,37	0
32	MG	A	3051	1/1	0.99	0.04	120,120,120,120	0
32	MG	K	211	1/1	0.99	0.01	95,95,95,95	0
32	MG	A	3610	1/1	0.99	0.04	4,4,4,4	0
32	MG	A	3854	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3855	1/1	0.99	0.07	95,95,95,95	0
32	MG	K	217	1/1	0.99	0.04	28,28,28,28	0
32	MG	K	220	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	3856	1/1	0.99	0.03	8,8,8,8	0
32	MG	K	222	1/1	0.99	0.02	21,21,21,21	0
32	MG	L	205	1/1	0.99	0.03	44,44,44,44	0
32	MG	L	207	1/1	0.99	0.08	5,5,5,5	0
32	MG	L	208	1/1	0.99	0.02	31,31,31,31	0
32	MG	A	3612	1/1	0.99	0.01	10,10,10,10	0
32	MG	A	3613	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	3862	1/1	0.99	0.02	5,5,5,5	0
32	MG	O	203	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3864	1/1	0.99	0.03	95,95,95,95	0
32	MG	O	205	1/1	0.99	0.03	21,21,21,21	0
32	MG	O	208	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3614	1/1	0.99	0.02	3,3,3,3	0
32	MG	O	210	1/1	0.99	0.02	20,20,20,20	0
32	MG	A	3618	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3867	1/1	0.99	0.02	95,95,95,95	0
32	MG	P	206	1/1	0.99	0.03	14,14,14,14	0
32	MG	P	207	1/1	0.99	0.05	59,59,59,59	0
32	MG	Q	201	1/1	0.99	0.03	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	Q	202	1/1	0.99	0.03	21,21,21,21	0
32	MG	Q	203	1/1	0.99	0.02	22,22,22,22	0
32	MG	Q	204	1/1	0.99	0.02	31,31,31,31	0
32	MG	Q	205	1/1	0.99	0.03	22,22,22,22	0
32	MG	Q	207	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	3619	1/1	0.99	0.04	23,23,23,23	0
32	MG	Q	209	1/1	0.99	0.02	21,21,21,21	0
32	MG	A	3870	1/1	0.99	0.02	14,14,14,14	0
32	MG	R	206	1/1	0.99	0.04	108,108,108,108	0
32	MG	A	3871	1/1	0.99	0.03	95,95,95,95	0
32	MG	R	208	1/1	0.99	0.02	1,1,1,1	0
32	MG	A	3620	1/1	0.99	0.03	0,0,0,0	0
32	MG	R	210	1/1	0.99	0.11	19,19,19,19	0
32	MG	R	211	1/1	0.99	0.02	24,24,24,24	0
32	MG	R	212	1/1	0.99	0.05	24,24,24,24	0
32	MG	A	3873	1/1	0.99	0.03	52,52,52,52	0
32	MG	R	214	1/1	0.99	0.02	20,20,20,20	0
32	MG	A	3874	1/1	0.99	0.02	72,72,72,72	0
32	MG	R	216	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	3876	1/1	0.99	0.04	18,18,18,18	0
32	MG	R	219	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3877	1/1	0.99	0.05	22,22,22,22	0
32	MG	S	106	1/1	0.99	0.03	17,17,17,17	0
32	MG	S	107	1/1	0.99	0.04	20,20,20,20	0
32	MG	S	108	1/1	0.99	0.03	26,26,26,26	0
32	MG	S	109	1/1	0.99	0.02	18,18,18,18	0
32	MG	T	506	1/1	0.99	0.02	29,29,29,29	0
32	MG	T	507	1/1	0.99	0.04	45,45,45,45	0
32	MG	A	3063	1/1	0.99	0.06	86,86,86,86	0
32	MG	A	3070	1/1	0.99	0.03	85,85,85,85	0
32	MG	T	511	1/1	0.99	0.04	23,23,23,23	0
32	MG	T	513	1/1	0.99	0.02	34,34,34,34	0
32	MG	A	3882	1/1	0.99	0.04	174,174,174,174	0
32	MG	A	3884	1/1	0.99	0.07	95,95,95,95	0
32	MG	T	516	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	3885	1/1	0.99	0.05	95,95,95,95	0
32	MG	T	518	1/1	0.99	0.02	24,24,24,24	0
32	MG	U	304	1/1	0.99	0.01	4,4,4,4	0
32	MG	U	306	1/1	0.99	0.06	9,9,9,9	0
32	MG	A	3886	1/1	0.99	0.04	17,17,17,17	0
32	MG	U	308	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	3888	1/1	0.99	0.04	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	U	310	1/1	0.99	0.01	27,27,27,27	0
32	MG	U	311	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	3623	1/1	0.99	0.04	3,3,3,3	0
32	MG	A	3891	1/1	0.99	0.04	95,95,95,95	0
32	MG	W	111	1/1	0.99	0.06	95,95,95,95	0
32	MG	A	3624	1/1	0.99	0.04	3,3,3,3	0
32	MG	W	115	1/1	0.99	0.03	23,23,23,23	0
32	MG	X	105	1/1	0.99	0.03	95,95,95,95	0
32	MG	X	106	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	3078	1/1	0.99	0.02	146,146,146,146	0
32	MG	A	3895	1/1	0.99	0.02	2,2,2,2	0
32	MG	A	3627	1/1	0.99	0.03	11,11,11,11	0
32	MG	X	110	1/1	0.99	0.03	95,95,95,95	0
32	MG	X	111	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3897	1/1	0.99	0.02	37,37,37,37	0
32	MG	X	113	1/1	0.99	0.02	31,31,31,31	0
32	MG	A	3152	1/1	0.99	0.06	38,38,38,38	0
32	MG	X	115	1/1	0.99	0.02	25,25,25,25	0
32	MG	X	116	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	3629	1/1	0.99	0.03	3,3,3,3	0
32	MG	0	101	1/1	0.99	0.03	75,75,75,75	0
32	MG	A	3900	1/1	0.99	0.03	95,95,95,95	0
32	MG	0	104	1/1	0.99	0.02	37,37,37,37	0
32	MG	A	3901	1/1	0.99	0.04	95,95,95,95	0
32	MG	0	106	1/1	0.99	0.02	34,34,34,34	0
32	MG	0	107	1/1	0.99	0.02	31,31,31,31	0
32	MG	2	103	1/1	0.99	0.04	63,63,63,63	0
32	MG	A	3902	1/1	0.99	0.02	23,23,23,23	0
32	MG	2	107	1/1	0.99	0.04	1,1,1,1	0
32	MG	A	3630	1/1	0.99	0.05	2,2,2,2	0
32	MG	2	109	1/1	0.99	0.04	27,27,27,27	0
32	MG	2	110	1/1	0.99	0.10	26,26,26,26	0
32	MG	2	111	1/1	0.99	0.04	26,26,26,26	0
32	MG	a	3006	1/1	0.99	0.04	48,48,48,48	0
32	MG	a	3025	1/1	0.99	0.04	61,61,61,61	0
32	MG	a	3027	1/1	0.99	0.06	71,71,71,71	0
32	MG	a	3076	1/1	0.99	0.03	70,70,70,70	0
32	MG	a	3079	1/1	0.99	0.04	89,89,89,89	0
32	MG	a	3080	1/1	0.99	0.03	45,45,45,45	0
32	MG	a	3094	1/1	0.99	0.04	93,93,93,93	0
32	MG	a	3132	1/1	0.99	0.07	92,92,92,92	0
32	MG	A	3904	1/1	0.99	0.03	9,9,9,9	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3190	1/1	0.99	0.08	51,51,51,51	0
32	MG	A	3905	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3235	1/1	0.99	0.04	55,55,55,55	0
32	MG	a	3238	1/1	0.99	0.03	48,48,48,48	0
32	MG	a	3242	1/1	0.99	0.03	56,56,56,56	0
32	MG	a	3247	1/1	0.99	0.03	60,60,60,60	0
32	MG	a	3264	1/1	0.99	0.02	72,72,72,72	0
32	MG	a	3274	1/1	0.99	0.04	61,61,61,61	0
32	MG	A	3631	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	3276	1/1	0.99	0.04	56,56,56,56	0
32	MG	a	3278	1/1	0.99	0.04	97,97,97,97	0
32	MG	a	3283	1/1	0.99	0.02	97,97,97,97	0
32	MG	a	3293	1/1	0.99	0.04	47,47,47,47	0
32	MG	a	3300	1/1	0.99	0.03	97,97,97,97	0
32	MG	a	3301	1/1	0.99	0.03	50,50,50,50	0
32	MG	A	3910	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3304	1/1	0.99	0.03	47,47,47,47	0
32	MG	A	3162	1/1	0.99	0.04	47,47,47,47	0
32	MG	a	3312	1/1	0.99	0.05	76,76,76,76	0
32	MG	a	3318	1/1	0.99	0.07	50,50,50,50	0
32	MG	a	3324	1/1	0.99	0.04	55,55,55,55	0
32	MG	A	3180	1/1	0.99	0.03	61,61,61,61	0
32	MG	a	3333	1/1	0.99	0.03	50,50,50,50	0
32	MG	a	3342	1/1	0.99	0.06	68,68,68,68	0
32	MG	a	3348	1/1	0.99	0.05	56,56,56,56	0
32	MG	A	3634	1/1	0.99	0.06	39,39,39,39	0
32	MG	a	3371	1/1	0.99	0.02	115,115,115,115	0
32	MG	a	3375	1/1	0.99	0.05	75,75,75,75	0
32	MG	a	3385	1/1	0.99	0.03	52,52,52,52	0
32	MG	a	3388	1/1	0.99	0.07	66,66,66,66	0
32	MG	a	3391	1/1	0.99	0.03	55,55,55,55	0
32	MG	a	3394	1/1	0.99	0.05	71,71,71,71	0
32	MG	a	3400	1/1	0.99	0.04	56,56,56,56	0
32	MG	a	3416	1/1	0.99	0.03	64,64,64,64	0
32	MG	a	3419	1/1	0.99	0.07	113,113,113,113	0
32	MG	a	3430	1/1	0.99	0.04	38,38,38,38	0
32	MG	a	3433	1/1	0.99	0.07	69,69,69,69	0
32	MG	a	3438	1/1	0.99	0.04	64,64,64,64	0
32	MG	a	3443	1/1	0.99	0.03	44,44,44,44	0
32	MG	a	3447	1/1	0.99	0.05	74,74,74,74	0
32	MG	a	3460	1/1	0.99	0.03	67,67,67,67	0
32	MG	a	3463	1/1	0.99	0.04	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3477	1/1	0.99	0.02	62,62,62,62	0
32	MG	A	3635	1/1	0.99	0.05	53,53,53,53	0
32	MG	a	3480	1/1	0.99	0.05	50,50,50,50	0
32	MG	a	3481	1/1	0.99	0.03	59,59,59,59	0
32	MG	a	3487	1/1	0.99	0.05	65,65,65,65	0
32	MG	a	3491	1/1	0.99	0.02	75,75,75,75	0
32	MG	a	3506	1/1	0.99	0.05	66,66,66,66	0
32	MG	a	3522	1/1	0.99	0.03	60,60,60,60	0
32	MG	a	3527	1/1	0.99	0.07	42,42,42,42	0
32	MG	A	3916	1/1	0.99	0.01	2,2,2,2	0
32	MG	a	3533	1/1	0.99	0.04	60,60,60,60	0
32	MG	a	3536	1/1	0.99	0.04	48,48,48,48	0
32	MG	a	3541	1/1	0.99	0.03	100,100,100,100	0
32	MG	A	3636	1/1	0.99	0.09	7,7,7,7	0
32	MG	a	3548	1/1	0.99	0.03	69,69,69,69	0
32	MG	a	3550	1/1	0.99	0.04	84,84,84,84	0
32	MG	a	3554	1/1	0.99	0.03	71,71,71,71	0
32	MG	a	3567	1/1	0.99	0.03	63,63,63,63	0
32	MG	a	3582	1/1	0.99	0.07	104,104,104,104	0
32	MG	a	3586	1/1	0.99	0.02	83,83,83,83	0
32	MG	a	3591	1/1	0.99	0.07	102,102,102,102	0
32	MG	a	3594	1/1	0.99	0.05	58,58,58,58	0
32	MG	a	3601	1/1	0.99	0.04	87,87,87,87	0
32	MG	a	3629	1/1	0.99	0.06	80,80,80,80	0
32	MG	a	3633	1/1	0.99	0.06	93,93,93,93	0
32	MG	a	3634	1/1	0.99	0.05	76,76,76,76	0
32	MG	a	3637	1/1	0.99	0.03	75,75,75,75	0
32	MG	a	3638	1/1	0.99	0.04	75,75,75,75	0
32	MG	a	3641	1/1	0.99	0.04	70,70,70,70	0
32	MG	a	3643	1/1	0.99	0.03	73,73,73,73	0
32	MG	a	3645	1/1	0.99	0.03	93,93,93,93	0
32	MG	a	3647	1/1	0.99	0.06	70,70,70,70	0
32	MG	a	3650	1/1	0.99	0.02	81,81,81,81	0
32	MG	a	3651	1/1	0.99	0.06	61,61,61,61	0
32	MG	a	3652	1/1	0.99	0.08	78,78,78,78	0
32	MG	a	3654	1/1	0.99	0.09	115,115,115,115	0
32	MG	a	3657	1/1	0.99	0.07	70,70,70,70	0
32	MG	a	3658	1/1	0.99	0.03	74,74,74,74	0
32	MG	a	3660	1/1	0.99	0.03	76,76,76,76	0
32	MG	a	3661	1/1	0.99	0.06	66,66,66,66	0
32	MG	a	3671	1/1	0.99	0.03	70,70,70,70	0
32	MG	a	3675	1/1	0.99	0.03	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3679	1/1	0.99	0.05	86,86,86,86	0
32	MG	a	3680	1/1	0.99	0.04	99,99,99,99	0
32	MG	a	3685	1/1	0.99	0.04	104,104,104,104	0
32	MG	a	3696	1/1	0.99	0.03	79,79,79,79	0
32	MG	a	3697	1/1	0.99	0.04	62,62,62,62	0
32	MG	a	3700	1/1	0.99	0.03	66,66,66,66	0
32	MG	a	3702	1/1	0.99	0.04	79,79,79,79	0
32	MG	a	3706	1/1	0.99	0.04	77,77,77,77	0
32	MG	a	3708	1/1	0.99	0.03	86,86,86,86	0
32	MG	a	3710	1/1	0.99	0.03	78,78,78,78	0
32	MG	A	3637	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	3716	1/1	0.99	0.07	69,69,69,69	0
32	MG	a	3723	1/1	0.99	0.12	85,85,85,85	0
32	MG	A	3198	1/1	0.99	0.03	54,54,54,54	0
32	MG	A	3920	1/1	0.99	0.06	10,10,10,10	0
32	MG	a	3729	1/1	0.99	0.03	77,77,77,77	0
32	MG	a	3736	1/1	0.99	0.03	73,73,73,73	0
32	MG	a	3740	1/1	0.99	0.03	76,76,76,76	0
32	MG	a	3744	1/1	0.99	0.08	70,70,70,70	0
32	MG	a	3745	1/1	0.99	0.05	73,73,73,73	0
32	MG	a	3746	1/1	0.99	0.06	80,80,80,80	0
32	MG	a	3752	1/1	0.99	0.03	71,71,71,71	0
32	MG	a	3761	1/1	0.99	0.05	72,72,72,72	0
32	MG	a	3766	1/1	0.99	0.04	77,77,77,77	0
32	MG	a	3768	1/1	0.99	0.06	84,84,84,84	0
32	MG	a	3770	1/1	0.99	0.05	75,75,75,75	0
32	MG	a	3784	1/1	0.99	0.04	75,75,75,75	0
32	MG	a	3789	1/1	0.99	0.03	62,62,62,62	0
32	MG	a	3791	1/1	0.99	0.05	117,117,117,117	0
32	MG	a	3792	1/1	0.99	0.03	79,79,79,79	0
32	MG	a	3794	1/1	0.99	0.03	59,59,59,59	0
32	MG	a	3795	1/1	0.99	0.02	103,103,103,103	0
32	MG	A	3921	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3805	1/1	0.99	0.07	95,95,95,95	0
32	MG	A	3922	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	3807	1/1	0.99	0.03	24,24,24,24	0
32	MG	a	3808	1/1	0.99	0.03	8,8,8,8	0
32	MG	a	3809	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3923	1/1	0.99	0.06	46,46,46,46	0
32	MG	a	3811	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	3813	1/1	0.99	0.05	88,88,88,88	0
32	MG	A	3926	1/1	0.99	0.04	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3225	1/1	0.99	0.04	58,58,58,58	0
32	MG	a	3819	1/1	0.99	0.02	15,15,15,15	0
32	MG	A	3010	1/1	0.99	0.04	54,54,54,54	0
32	MG	a	3822	1/1	0.99	0.06	17,17,17,17	0
32	MG	A	3930	1/1	0.99	0.09	95,95,95,95	0
32	MG	A	3931	1/1	0.99	0.04	10,10,10,10	0
32	MG	a	3827	1/1	0.99	0.05	29,29,29,29	0
32	MG	A	3642	1/1	0.99	0.04	80,80,80,80	0
32	MG	a	3830	1/1	0.99	0.04	50,50,50,50	0
32	MG	a	3831	1/1	0.99	0.06	4,4,4,4	0
32	MG	a	3833	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3835	1/1	0.99	0.05	4,4,4,4	0
32	MG	a	3836	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	3837	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3643	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	3843	1/1	0.99	0.03	1,1,1,1	0
32	MG	a	3844	1/1	0.99	0.05	2,2,2,2	0
32	MG	a	3845	1/1	0.99	0.06	5,5,5,5	0
32	MG	a	3846	1/1	0.99	0.04	0,0,0,0	0
32	MG	a	3847	1/1	0.99	0.08	19,19,19,19	0
32	MG	a	3848	1/1	0.99	0.05	26,26,26,26	0
32	MG	a	3849	1/1	0.99	0.04	7,7,7,7	0
32	MG	a	3851	1/1	0.99	0.03	13,13,13,13	0
32	MG	a	3852	1/1	0.99	0.07	28,28,28,28	0
32	MG	a	3853	1/1	0.99	0.02	49,49,49,49	0
32	MG	A	3644	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3855	1/1	0.99	0.06	31,31,31,31	0
32	MG	a	3856	1/1	0.99	0.04	3,3,3,3	0
32	MG	A	3936	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3859	1/1	0.99	0.04	11,11,11,11	0
32	MG	a	3860	1/1	0.99	0.04	56,56,56,56	0
32	MG	a	3862	1/1	0.99	0.06	81,81,81,81	0
32	MG	a	3864	1/1	0.99	0.06	5,5,5,5	0
32	MG	a	3865	1/1	0.99	0.02	2,2,2,2	0
32	MG	a	3867	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	3868	1/1	0.99	0.03	7,7,7,7	0
32	MG	A	3937	1/1	0.99	0.02	18,18,18,18	0
32	MG	a	3870	1/1	0.99	0.04	59,59,59,59	0
32	MG	A	3938	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3872	1/1	0.99	0.06	16,16,16,16	0
32	MG	a	3873	1/1	0.99	0.06	6,6,6,6	0
32	MG	a	3874	1/1	0.99	0.02	1,1,1,1	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3939	1/1	0.99	0.04	1,1,1,1	0
32	MG	A	3234	1/1	0.99	0.03	77,77,77,77	0
32	MG	a	3878	1/1	0.99	0.06	95,95,95,95	0
32	MG	A	3646	1/1	0.99	0.06	22,22,22,22	0
32	MG	a	3880	1/1	0.99	0.06	95,95,95,95	0
32	MG	A	3647	1/1	0.99	0.03	13,13,13,13	0
32	MG	A	3944	1/1	0.99	0.04	9,9,9,9	0
32	MG	a	3883	1/1	0.99	0.02	4,4,4,4	0
32	MG	a	3885	1/1	0.99	0.04	26,26,26,26	0
32	MG	a	3886	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3945	1/1	0.99	0.02	16,16,16,16	0
32	MG	a	3888	1/1	0.99	0.05	20,20,20,20	0
32	MG	A	3238	1/1	0.99	0.04	68,68,68,68	0
32	MG	a	3891	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3240	1/1	0.99	0.03	103,103,103,103	0
32	MG	a	3893	1/1	0.99	0.02	0,0,0,0	0
32	MG	A	3948	1/1	0.99	0.08	95,95,95,95	0
32	MG	A	3653	1/1	0.99	0.09	95,95,95,95	0
32	MG	A	3950	1/1	0.99	0.05	5,5,5,5	0
32	MG	a	3897	1/1	0.99	0.06	0,0,0,0	0
32	MG	A	3654	1/1	0.99	0.08	95,95,95,95	0
32	MG	A	3952	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3953	1/1	0.99	0.03	7,7,7,7	0
32	MG	A	3954	1/1	0.99	0.03	46,46,46,46	0
32	MG	a	3905	1/1	0.99	0.03	6,6,6,6	0
32	MG	A	3246	1/1	0.99	0.03	54,54,54,54	0
32	MG	a	3907	1/1	0.99	0.05	4,4,4,4	0
32	MG	a	3908	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	3658	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	3910	1/1	0.99	0.05	58,58,58,58	0
32	MG	a	3911	1/1	0.99	0.02	3,3,3,3	0
32	MG	A	3659	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	3917	1/1	0.99	0.03	9,9,9,9	0
32	MG	a	3918	1/1	0.99	0.03	68,68,68,68	0
32	MG	a	3921	1/1	0.99	0.03	6,6,6,6	0
32	MG	A	3247	1/1	0.99	0.05	74,74,74,74	0
32	MG	A	3248	1/1	0.99	0.02	32,32,32,32	0
32	MG	A	3962	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3926	1/1	0.99	0.02	4,4,4,4	0
32	MG	a	3927	1/1	0.99	0.03	4,4,4,4	0
32	MG	a	3928	1/1	0.99	0.04	41,41,41,41	0
32	MG	a	3929	1/1	0.99	0.11	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3931	1/1	0.99	0.03	73,73,73,73	0
32	MG	a	3932	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	3933	1/1	0.99	0.03	49,49,49,49	0
32	MG	A	3963	1/1	0.99	0.03	2,2,2,2	0
32	MG	a	3935	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3936	1/1	0.99	0.07	6,6,6,6	0
32	MG	a	3937	1/1	0.99	0.06	49,49,49,49	0
32	MG	A	3964	1/1	0.99	0.02	3,3,3,3	0
32	MG	a	3939	1/1	0.99	0.03	0,0,0,0	0
32	MG	A	3965	1/1	0.99	0.04	8,8,8,8	0
32	MG	A	3966	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	3943	1/1	0.99	0.04	7,7,7,7	0
32	MG	A	3967	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3945	1/1	0.99	0.03	14,14,14,14	0
32	MG	A	3968	1/1	0.99	0.09	22,22,22,22	0
32	MG	A	3969	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3252	1/1	0.99	0.02	76,76,76,76	0
32	MG	a	3951	1/1	0.99	0.03	15,15,15,15	0
32	MG	a	3952	1/1	0.99	0.03	1,1,1,1	0
32	MG	a	3953	1/1	0.99	0.03	5,5,5,5	0
32	MG	a	3954	1/1	0.99	0.04	34,34,34,34	0
32	MG	a	3955	1/1	0.99	0.05	82,82,82,82	0
32	MG	A	3972	1/1	0.99	0.07	20,20,20,20	0
32	MG	A	3973	1/1	0.99	0.05	17,17,17,17	0
32	MG	a	3959	1/1	0.99	0.02	7,7,7,7	0
32	MG	A	3974	1/1	0.99	0.07	10,10,10,10	0
32	MG	a	3961	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	3962	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	3963	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3976	1/1	0.99	0.05	2,2,2,2	0
32	MG	a	3965	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	3966	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	3967	1/1	0.99	0.06	103,103,103,103	0
32	MG	a	3968	1/1	0.99	0.02	47,47,47,47	0
32	MG	a	3969	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	3977	1/1	0.99	0.04	16,16,16,16	0
32	MG	A	3978	1/1	0.99	0.03	67,67,67,67	0
32	MG	A	3979	1/1	0.99	0.09	6,6,6,6	0
32	MG	A	3980	1/1	0.99	0.05	51,51,51,51	0
32	MG	a	3974	1/1	0.99	0.03	3,3,3,3	0
32	MG	A	3982	1/1	0.99	0.07	50,50,50,50	0
32	MG	A	3983	1/1	0.99	0.05	8,8,8,8	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3984	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3978	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3979	1/1	0.99	0.06	23,23,23,23	0
32	MG	A	3985	1/1	0.99	0.05	2,2,2,2	0
32	MG	a	3981	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	3663	1/1	0.99	0.04	11,11,11,11	0
32	MG	a	3983	1/1	0.99	0.01	12,12,12,12	0
32	MG	A	3260	1/1	0.99	0.03	62,62,62,62	0
32	MG	a	3986	1/1	0.99	0.03	5,5,5,5	0
32	MG	A	3665	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3990	1/1	0.99	0.01	16,16,16,16	0
32	MG	A	3666	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	3991	1/1	0.99	0.02	4,4,4,4	0
32	MG	a	3992	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	3993	1/1	0.99	0.02	2,2,2,2	0
32	MG	a	3994	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3992	1/1	0.99	0.02	33,33,33,33	0
32	MG	a	3997	1/1	0.99	0.04	55,55,55,55	0
32	MG	a	3998	1/1	0.99	0.04	1,1,1,1	0
32	MG	a	3999	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	4000	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4001	1/1	0.99	0.04	0,0,0,0	0
32	MG	a	4002	1/1	0.99	0.05	2,2,2,2	0
32	MG	a	4003	1/1	0.99	0.04	1,1,1,1	0
32	MG	a	4005	1/1	0.99	0.06	24,24,24,24	0
32	MG	a	4007	1/1	0.99	0.05	85,85,85,85	0
32	MG	A	3668	1/1	0.99	0.06	59,59,59,59	0
32	MG	a	4009	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4011	1/1	0.99	0.07	6,6,6,6	0
32	MG	A	3994	1/1	0.99	0.03	22,22,22,22	0
32	MG	A	3669	1/1	0.99	0.06	6,6,6,6	0
32	MG	A	3997	1/1	0.99	0.03	22,22,22,22	0
32	MG	A	3670	1/1	0.99	0.10	95,95,95,95	0
32	MG	a	4018	1/1	0.99	0.05	31,31,31,31	0
32	MG	a	4019	1/1	0.99	0.05	13,13,13,13	0
32	MG	A	4000	1/1	0.99	0.04	12,12,12,12	0
32	MG	A	4001	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	4022	1/1	0.99	0.04	25,25,25,25	0
32	MG	a	4023	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4002	1/1	0.99	0.06	18,18,18,18	0
32	MG	a	4025	1/1	0.99	0.03	0,0,0,0	0
32	MG	a	4026	1/1	0.99	0.03	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4027	1/1	0.99	0.02	15,15,15,15	0
32	MG	a	4028	1/1	0.99	0.04	31,31,31,31	0
32	MG	A	3261	1/1	0.99	0.04	67,67,67,67	0
32	MG	A	3015	1/1	0.99	0.03	53,53,53,53	0
32	MG	a	4032	1/1	0.99	0.03	13,13,13,13	0
32	MG	A	4006	1/1	0.99	0.02	38,38,38,38	0
32	MG	a	4034	1/1	0.99	0.05	15,15,15,15	0
32	MG	A	4007	1/1	0.99	0.02	15,15,15,15	0
32	MG	A	4008	1/1	0.99	0.02	22,22,22,22	0
32	MG	a	4040	1/1	0.99	0.07	7,7,7,7	0
32	MG	a	4041	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	4042	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3673	1/1	0.99	0.07	7,7,7,7	0
32	MG	a	4044	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4045	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4047	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4011	1/1	0.99	0.02	31,31,31,31	0
32	MG	a	4049	1/1	0.99	0.02	2,2,2,2	0
32	MG	a	4050	1/1	0.99	0.05	2,2,2,2	0
32	MG	A	4012	1/1	0.99	0.03	23,23,23,23	0
32	MG	A	4013	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4053	1/1	0.99	0.02	6,6,6,6	0
32	MG	a	4054	1/1	0.99	0.04	1,1,1,1	0
32	MG	A	4014	1/1	0.99	0.01	18,18,18,18	0
32	MG	a	4056	1/1	0.99	0.03	1,1,1,1	0
32	MG	A	4015	1/1	0.99	0.03	21,21,21,21	0
32	MG	a	4059	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	4060	1/1	0.99	0.02	21,21,21,21	0
32	MG	A	3675	1/1	0.99	0.09	95,95,95,95	0
32	MG	a	4064	1/1	0.99	0.06	41,41,41,41	0
32	MG	a	4065	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4017	1/1	0.99	0.03	38,38,38,38	0
32	MG	a	4067	1/1	0.99	0.08	54,54,54,54	0
32	MG	a	4068	1/1	0.99	0.03	3,3,3,3	0
32	MG	A	3676	1/1	0.99	0.04	56,56,56,56	0
32	MG	a	4070	1/1	0.99	0.03	38,38,38,38	0
32	MG	a	4071	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	4072	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3677	1/1	0.99	0.03	1,1,1,1	0
32	MG	a	4075	1/1	0.99	0.03	18,18,18,18	0
32	MG	a	4077	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4078	1/1	0.99	0.03	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4080	1/1	0.99	0.06	95,95,95,95	0
32	MG	A	4021	1/1	0.99	0.03	22,22,22,22	0
32	MG	A	3265	1/1	0.99	0.04	48,48,48,48	0
32	MG	A	3280	1/1	0.99	0.03	51,51,51,51	0
32	MG	A	3682	1/1	0.99	0.05	6,6,6,6	0
32	MG	A	4025	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	4026	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	4027	1/1	0.99	0.04	14,14,14,14	0
32	MG	a	4088	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	4090	1/1	0.99	0.05	73,73,73,73	0
32	MG	a	4091	1/1	0.99	0.06	12,12,12,12	0
32	MG	a	4092	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	4093	1/1	0.99	0.02	1,1,1,1	0
32	MG	a	4095	1/1	0.99	0.08	12,12,12,12	0
32	MG	A	3281	1/1	0.99	0.05	59,59,59,59	0
32	MG	a	4097	1/1	0.99	0.03	21,21,21,21	0
32	MG	a	4098	1/1	0.99	0.06	61,61,61,61	0
32	MG	A	4029	1/1	0.99	0.03	21,21,21,21	0
32	MG	a	4103	1/1	0.99	0.04	4,4,4,4	0
32	MG	A	4030	1/1	0.99	0.04	19,19,19,19	0
32	MG	A	3684	1/1	0.99	0.04	20,20,20,20	0
32	MG	a	4108	1/1	0.99	0.03	3,3,3,3	0
32	MG	A	3294	1/1	0.99	0.03	90,90,90,90	0
32	MG	a	4110	1/1	0.99	0.02	0,0,0,0	0
32	MG	A	4033	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4114	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	4115	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4116	1/1	0.99	0.02	7,7,7,7	0
32	MG	A	4034	1/1	0.99	0.01	30,30,30,30	0
32	MG	a	4119	1/1	0.99	0.04	32,32,32,32	0
32	MG	A	4035	1/1	0.99	0.02	33,33,33,33	0
32	MG	a	4121	1/1	0.99	0.02	45,45,45,45	0
32	MG	A	4036	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4037	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4038	1/1	0.99	0.01	19,19,19,19	0
32	MG	a	4126	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	4128	1/1	0.99	0.04	23,23,23,23	0
32	MG	a	4129	1/1	0.99	0.03	3,3,3,3	0
32	MG	a	4130	1/1	0.99	0.02	14,14,14,14	0
32	MG	A	3686	1/1	0.99	0.03	14,14,14,14	0
32	MG	A	4040	1/1	0.99	0.03	24,24,24,24	0
32	MG	A	3687	1/1	0.99	0.04	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4043	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4136	1/1	0.99	0.04	7,7,7,7	0
32	MG	A	4044	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	4045	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	4046	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4140	1/1	0.99	0.01	2,2,2,2	0
32	MG	a	4141	1/1	0.99	0.02	1,1,1,1	0
32	MG	A	3688	1/1	0.99	0.05	8,8,8,8	0
32	MG	a	4143	1/1	0.99	0.01	3,3,3,3	0
32	MG	A	4048	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4146	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3689	1/1	0.99	0.03	9,9,9,9	0
32	MG	A	4050	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4051	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	3690	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	4151	1/1	0.99	0.04	3,3,3,3	0
32	MG	A	4053	1/1	0.99	0.04	24,24,24,24	0
32	MG	a	4154	1/1	0.99	0.09	95,95,95,95	0
32	MG	a	4155	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4054	1/1	0.99	0.03	30,30,30,30	0
32	MG	a	4158	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4159	1/1	0.99	0.09	95,95,95,95	0
32	MG	a	4161	1/1	0.99	0.03	0,0,0,0	0
32	MG	a	4162	1/1	0.99	0.05	17,17,17,17	0
32	MG	A	4055	1/1	0.99	0.03	35,35,35,35	0
32	MG	A	4056	1/1	0.99	0.04	26,26,26,26	0
32	MG	a	4166	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	4167	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3691	1/1	0.99	0.03	13,13,13,13	0
32	MG	A	3300	1/1	0.99	0.03	49,49,49,49	0
32	MG	a	4170	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4171	1/1	0.99	0.04	15,15,15,15	0
32	MG	a	4173	1/1	0.99	0.02	40,40,40,40	0
32	MG	a	4174	1/1	0.99	0.01	3,3,3,3	0
32	MG	A	4059	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	4176	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4177	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	4060	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	3301	1/1	0.99	0.03	70,70,70,70	0
32	MG	A	4062	1/1	0.99	0.03	19,19,19,19	0
32	MG	A	4063	1/1	0.99	0.04	28,28,28,28	0
32	MG	A	4064	1/1	0.99	0.04	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4186	1/1	0.99	0.05	7,7,7,7	0
32	MG	a	4187	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	4188	1/1	0.99	0.06	55,55,55,55	0
32	MG	A	4065	1/1	0.99	0.03	37,37,37,37	0
32	MG	a	4191	1/1	0.99	0.04	4,4,4,4	0
32	MG	A	4066	1/1	0.99	0.03	32,32,32,32	0
32	MG	a	4193	1/1	0.99	0.03	0,0,0,0	0
32	MG	a	4195	1/1	0.99	0.04	28,28,28,28	0
32	MG	a	4196	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	3695	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4069	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4199	1/1	0.99	0.02	3,3,3,3	0
32	MG	A	4070	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4203	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	4204	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	4205	1/1	0.99	0.04	1,1,1,1	0
32	MG	A	4071	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4207	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3305	1/1	0.99	0.06	63,63,63,63	0
32	MG	A	3316	1/1	0.99	0.06	74,74,74,74	0
32	MG	A	3698	1/1	0.99	0.05	38,38,38,38	0
32	MG	a	4215	1/1	0.99	0.04	19,19,19,19	0
32	MG	a	4216	1/1	0.99	0.04	12,12,12,12	0
32	MG	a	4217	1/1	0.99	0.06	9,9,9,9	0
32	MG	a	4218	1/1	0.99	0.04	43,43,43,43	0
32	MG	a	4219	1/1	0.99	0.05	5,5,5,5	0
32	MG	A	4075	1/1	0.99	0.02	21,21,21,21	0
32	MG	A	4076	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4223	1/1	0.99	0.05	13,13,13,13	0
32	MG	A	4077	1/1	0.99	0.01	23,23,23,23	0
32	MG	A	4078	1/1	0.99	0.02	30,30,30,30	0
32	MG	a	4226	1/1	0.99	0.05	41,41,41,41	0
32	MG	a	4227	1/1	0.99	0.04	17,17,17,17	0
32	MG	a	4228	1/1	0.99	0.04	7,7,7,7	0
32	MG	a	4230	1/1	0.99	0.02	47,47,47,47	0
32	MG	a	4231	1/1	0.99	0.03	1,1,1,1	0
32	MG	a	4232	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	4233	1/1	0.99	0.04	10,10,10,10	0
32	MG	a	4234	1/1	0.99	0.02	1,1,1,1	0
32	MG	A	3318	1/1	0.99	0.06	55,55,55,55	0
32	MG	a	4236	1/1	0.99	0.04	9,9,9,9	0
32	MG	a	4237	1/1	0.99	0.04	15,15,15,15	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4238	1/1	0.99	0.04	11,11,11,11	0
32	MG	a	4239	1/1	0.99	0.04	38,38,38,38	0
32	MG	a	4241	1/1	0.99	0.08	41,41,41,41	0
32	MG	A	4081	1/1	0.99	0.04	23,23,23,23	0
32	MG	a	4243	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	3320	1/1	0.99	0.04	66,66,66,66	0
32	MG	A	4083	1/1	0.99	0.04	26,26,26,26	0
32	MG	A	3323	1/1	0.99	0.03	79,79,79,79	0
32	MG	a	4247	1/1	0.99	0.02	0,0,0,0	0
32	MG	a	4250	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	4251	1/1	0.99	0.05	1,1,1,1	0
32	MG	a	4252	1/1	0.99	0.03	15,15,15,15	0
32	MG	a	4253	1/1	0.99	0.03	6,6,6,6	0
32	MG	a	4254	1/1	0.99	0.10	95,95,95,95	0
32	MG	A	4085	1/1	0.99	0.05	21,21,21,21	0
32	MG	a	4257	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	3334	1/1	0.99	0.03	43,43,43,43	0
32	MG	a	4259	1/1	0.99	0.03	18,18,18,18	0
32	MG	A	4088	1/1	0.99	0.04	31,31,31,31	0
32	MG	A	3335	1/1	0.99	0.04	66,66,66,66	0
32	MG	a	4262	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4263	1/1	0.99	0.01	21,21,21,21	0
32	MG	A	4090	1/1	0.99	0.05	30,30,30,30	0
32	MG	a	4265	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	3344	1/1	0.99	0.05	71,71,71,71	0
32	MG	A	4092	1/1	0.99	0.09	24,24,24,24	0
32	MG	a	4268	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	4093	1/1	0.99	0.05	28,28,28,28	0
32	MG	a	4270	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4272	1/1	0.99	0.01	32,32,32,32	0
32	MG	a	4273	1/1	0.99	0.05	15,15,15,15	0
32	MG	a	4274	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4275	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4276	1/1	0.99	0.03	24,24,24,24	0
32	MG	A	4094	1/1	0.99	0.04	32,32,32,32	0
32	MG	a	4278	1/1	0.99	0.01	23,23,23,23	0
32	MG	A	4095	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4281	1/1	0.99	0.05	25,25,25,25	0
32	MG	A	4096	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3355	1/1	0.99	0.03	60,60,60,60	0
32	MG	A	4098	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	4285	1/1	0.99	0.01	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4099	1/1	0.99	0.03	32,32,32,32	0
32	MG	a	4287	1/1	0.99	0.01	29,29,29,29	0
32	MG	a	4288	1/1	0.99	0.03	29,29,29,29	0
32	MG	a	4289	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4290	1/1	0.99	0.03	19,19,19,19	0
32	MG	A	3707	1/1	0.99	0.03	5,5,5,5	0
32	MG	a	4293	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4294	1/1	0.99	0.08	29,29,29,29	0
32	MG	A	3708	1/1	0.99	0.08	95,95,95,95	0
32	MG	A	4102	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	3709	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3710	1/1	0.99	0.04	13,13,13,13	0
32	MG	A	3711	1/1	0.99	0.06	16,16,16,16	0
32	MG	a	4300	1/1	0.99	0.04	25,25,25,25	0
32	MG	A	4107	1/1	0.99	0.05	19,19,19,19	0
32	MG	a	4302	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4303	1/1	0.99	0.05	21,21,21,21	0
32	MG	a	4305	1/1	0.99	0.03	30,30,30,30	0
32	MG	a	4306	1/1	0.99	0.04	21,21,21,21	0
32	MG	a	4307	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	4309	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	3362	1/1	0.99	0.04	70,70,70,70	0
32	MG	A	4110	1/1	0.99	0.03	23,23,23,23	0
32	MG	A	4111	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	4112	1/1	0.99	0.09	23,23,23,23	0
32	MG	A	4113	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4114	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	3714	1/1	0.99	0.08	17,17,17,17	0
32	MG	A	3364	1/1	0.99	0.03	74,74,74,74	0
32	MG	a	4318	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4319	1/1	0.99	0.03	24,24,24,24	0
32	MG	A	4117	1/1	0.99	0.02	37,37,37,37	0
32	MG	A	3718	1/1	0.99	0.03	11,11,11,11	0
32	MG	a	4323	1/1	0.99	0.03	27,27,27,27	0
32	MG	a	4324	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3720	1/1	0.99	0.08	14,14,14,14	0
32	MG	a	4326	1/1	0.99	0.03	31,31,31,31	0
32	MG	a	4327	1/1	0.99	0.02	23,23,23,23	0
32	MG	a	4328	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4120	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	3721	1/1	0.99	0.06	95,95,95,95	0
32	MG	A	4123	1/1	0.99	0.03	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4334	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4124	1/1	0.99	0.04	30,30,30,30	0
32	MG	A	4125	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4337	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4338	1/1	0.99	0.03	21,21,21,21	0
32	MG	a	4339	1/1	0.99	0.05	28,28,28,28	0
32	MG	a	4340	1/1	0.99	0.03	31,31,31,31	0
32	MG	a	4341	1/1	0.99	0.03	32,32,32,32	0
32	MG	A	3365	1/1	0.99	0.05	50,50,50,50	0
32	MG	a	4345	1/1	0.99	0.01	22,22,22,22	0
32	MG	a	4346	1/1	0.99	0.02	23,23,23,23	0
32	MG	a	4347	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4348	1/1	0.99	0.02	20,20,20,20	0
32	MG	a	4349	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	4128	1/1	0.99	0.02	21,21,21,21	0
32	MG	a	4351	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4352	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4129	1/1	0.99	0.05	25,25,25,25	0
32	MG	a	4354	1/1	0.99	0.03	22,22,22,22	0
32	MG	a	4355	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	3382	1/1	0.99	0.03	54,54,54,54	0
32	MG	A	4131	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4359	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3725	1/1	0.99	0.06	0,0,0,0	0
32	MG	a	4362	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	4364	1/1	0.99	0.02	30,30,30,30	0
32	MG	a	4365	1/1	0.99	0.02	33,33,33,33	0
32	MG	A	4133	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4367	1/1	0.99	0.02	31,31,31,31	0
32	MG	a	4368	1/1	0.99	0.03	32,32,32,32	0
32	MG	A	3726	1/1	0.99	0.06	27,27,27,27	0
32	MG	A	3727	1/1	0.99	0.02	6,6,6,6	0
32	MG	a	4371	1/1	0.99	0.04	33,33,33,33	0
32	MG	a	4372	1/1	0.99	0.05	24,24,24,24	0
32	MG	A	4136	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4137	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	3413	1/1	0.99	0.03	96,96,96,96	0
32	MG	a	4377	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4140	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4141	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4380	1/1	0.99	0.04	28,28,28,28	0
32	MG	a	4381	1/1	0.99	0.03	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4382	1/1	0.99	0.03	30,30,30,30	0
32	MG	a	4383	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4386	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	4387	1/1	0.99	0.02	33,33,33,33	0
32	MG	a	4388	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4389	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4391	1/1	0.99	0.01	21,21,21,21	0
32	MG	A	4143	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4393	1/1	0.99	0.02	14,14,14,14	0
32	MG	A	3730	1/1	0.99	0.07	21,21,21,21	0
32	MG	A	4145	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	3414	1/1	0.99	0.03	53,53,53,53	0
32	MG	a	4397	1/1	0.99	0.01	28,28,28,28	0
32	MG	a	4398	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4399	1/1	0.99	0.01	23,23,23,23	0
32	MG	A	4147	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	3732	1/1	0.99	0.04	13,13,13,13	0
32	MG	a	4402	1/1	0.99	0.04	24,24,24,24	0
32	MG	A	4149	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4404	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	4150	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	3416	1/1	0.99	0.05	53,53,53,53	0
32	MG	A	4152	1/1	0.99	0.02	31,31,31,31	0
32	MG	a	4408	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4409	1/1	0.99	0.02	30,30,30,30	0
32	MG	a	4412	1/1	0.99	0.02	36,36,36,36	0
32	MG	A	4153	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4414	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4415	1/1	0.99	0.01	24,24,24,24	0
32	MG	a	4416	1/1	0.99	0.03	35,35,35,35	0
32	MG	a	4417	1/1	0.99	0.07	31,31,31,31	0
32	MG	A	3418	1/1	0.99	0.02	73,73,73,73	0
32	MG	a	4419	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	4420	1/1	0.99	0.02	21,21,21,21	0
32	MG	a	4421	1/1	0.99	0.03	22,22,22,22	0
32	MG	A	3735	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	4423	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4424	1/1	0.99	0.03	14,14,14,14	0
32	MG	a	4426	1/1	0.99	0.07	31,31,31,31	0
32	MG	A	4157	1/1	0.99	0.02	34,34,34,34	0
32	MG	a	4428	1/1	0.99	0.03	33,33,33,33	0
32	MG	A	4158	1/1	0.99	0.04	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4431	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4434	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	3736	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	4436	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4437	1/1	0.99	0.02	31,31,31,31	0
32	MG	A	3737	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	4163	1/1	0.99	0.02	21,21,21,21	0
32	MG	a	4443	1/1	0.99	0.03	22,22,22,22	0
32	MG	a	4444	1/1	0.99	0.04	24,24,24,24	0
32	MG	A	4164	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4165	1/1	0.99	0.03	32,32,32,32	0
32	MG	a	4447	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4448	1/1	0.99	0.02	31,31,31,31	0
32	MG	A	3738	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	4450	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4451	1/1	0.99	0.04	34,34,34,34	0
32	MG	A	4167	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4453	1/1	0.99	0.04	21,21,21,21	0
32	MG	A	4168	1/1	0.99	0.04	23,23,23,23	0
32	MG	a	4455	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	3422	1/1	0.99	0.08	56,56,56,56	0
32	MG	a	4458	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	4170	1/1	0.99	0.04	26,26,26,26	0
32	MG	a	4460	1/1	0.99	0.05	27,27,27,27	0
32	MG	a	4461	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4462	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4463	1/1	0.99	0.03	29,29,29,29	0
32	MG	a	4464	1/1	0.99	0.03	33,33,33,33	0
32	MG	a	4465	1/1	0.99	0.08	22,22,22,22	0
32	MG	a	4467	1/1	0.99	0.01	24,24,24,24	0
32	MG	a	4468	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	3740	1/1	0.99	0.02	4,4,4,4	0
32	MG	a	4470	1/1	0.99	0.02	30,30,30,30	0
32	MG	a	4471	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4474	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	4172	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4476	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4477	1/1	0.99	0.03	25,25,25,25	0
32	MG	a	4478	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4481	1/1	0.99	0.04	28,28,28,28	0
32	MG	A	4173	1/1	0.99	0.01	30,30,30,30	0
32	MG	a	4483	1/1	0.99	0.02	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4174	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4485	1/1	0.99	0.02	32,32,32,32	0
32	MG	A	4175	1/1	0.99	0.02	23,23,23,23	0
32	MG	a	4487	1/1	0.99	0.02	34,34,34,34	0
32	MG	A	3444	1/1	0.99	0.01	109,109,109,109	0
32	MG	a	4489	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4491	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4492	1/1	0.99	0.03	22,22,22,22	0
32	MG	A	4177	1/1	0.99	0.01	20,20,20,20	0
32	MG	a	4494	1/1	0.99	0.04	27,27,27,27	0
32	MG	a	4495	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	4496	1/1	0.99	0.03	27,27,27,27	0
32	MG	a	4497	1/1	0.99	0.03	23,23,23,23	0
32	MG	A	3459	1/1	0.99	0.02	67,67,67,67	0
32	MG	A	4179	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	4180	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4181	1/1	0.99	0.03	29,29,29,29	0
32	MG	a	4504	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	3744	1/1	0.99	0.05	19,19,19,19	0
32	MG	a	4507	1/1	0.99	0.03	25,25,25,25	0
32	MG	a	4508	1/1	0.99	0.04	20,20,20,20	0
32	MG	A	4183	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4510	1/1	0.99	0.02	22,22,22,22	0
32	MG	a	4511	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4513	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4184	1/1	0.99	0.04	28,28,28,28	0
32	MG	A	4185	1/1	0.99	0.02	30,30,30,30	0
32	MG	a	4516	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4517	1/1	0.99	0.02	35,35,35,35	0
32	MG	a	4518	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	4186	1/1	0.99	0.02	19,19,19,19	0
32	MG	a	4520	1/1	0.99	0.02	19,19,19,19	0
32	MG	a	4521	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4522	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	3466	1/1	0.99	0.03	69,69,69,69	0
32	MG	a	4524	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4525	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4526	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4190	1/1	0.99	0.01	34,34,34,34	0
32	MG	A	4192	1/1	0.99	0.04	31,31,31,31	0
32	MG	a	4530	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	3472	1/1	0.99	0.07	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4533	1/1	0.99	0.04	32,32,32,32	0
32	MG	a	4534	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4194	1/1	0.99	0.05	34,34,34,34	0
32	MG	a	4536	1/1	0.99	0.03	29,29,29,29	0
32	MG	a	4537	1/1	0.99	0.05	24,24,24,24	0
32	MG	a	4538	1/1	0.99	0.04	27,27,27,27	0
32	MG	a	4539	1/1	0.99	0.03	31,31,31,31	0
32	MG	a	4540	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4195	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4544	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4545	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4546	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4547	1/1	0.99	0.02	32,32,32,32	0
32	MG	A	4196	1/1	0.99	0.04	26,26,26,26	0
32	MG	a	4549	1/1	0.99	0.02	31,31,31,31	0
32	MG	a	4550	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	3480	1/1	0.99	0.04	72,72,72,72	0
32	MG	a	4553	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4554	1/1	0.99	0.01	26,26,26,26	0
32	MG	a	4555	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4557	1/1	0.99	0.01	26,26,26,26	0
32	MG	a	4558	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4559	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4198	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4561	1/1	0.99	0.04	27,27,27,27	0
32	MG	a	4563	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4199	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	3748	1/1	0.99	0.02	5,5,5,5	0
32	MG	a	4566	1/1	0.99	0.06	31,31,31,31	0
32	MG	a	4567	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4570	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4571	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	4201	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	4573	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4202	1/1	0.99	0.04	28,28,28,28	0
32	MG	a	4575	1/1	0.99	0.03	24,24,24,24	0
32	MG	A	4203	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	3482	1/1	0.99	0.04	79,79,79,79	0
32	MG	a	4578	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	3750	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4207	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	3751	1/1	0.99	0.03	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4582	1/1	0.99	0.01	29,29,29,29	0
32	MG	a	4585	1/1	0.99	0.05	26,26,26,26	0
32	MG	A	3483	1/1	0.99	0.03	84,84,84,84	0
32	MG	A	3489	1/1	0.99	0.03	81,81,81,81	0
32	MG	a	4589	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	4214	1/1	0.99	0.06	30,30,30,30	0
32	MG	A	4215	1/1	0.99	0.04	31,31,31,31	0
32	MG	a	4594	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	4216	1/1	0.99	0.04	21,21,21,21	0
32	MG	a	4597	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4598	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4218	1/1	0.99	0.05	28,28,28,28	0
32	MG	a	4600	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4601	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	4219	1/1	0.99	0.04	25,25,25,25	0
32	MG	A	4220	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4604	1/1	0.99	0.07	29,29,29,29	0
32	MG	a	4605	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	4221	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4608	1/1	0.99	0.03	26,26,26,26	0
32	MG	a	4609	1/1	0.99	0.05	30,30,30,30	0
32	MG	a	4611	1/1	0.99	0.04	22,22,22,22	0
32	MG	A	3031	1/1	0.99	0.04	91,91,91,91	0
32	MG	A	4223	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4224	1/1	0.99	0.02	22,22,22,22	0
32	MG	b	202	1/1	0.99	0.04	119,119,119,119	0
32	MG	b	211	1/1	0.99	0.03	68,68,68,68	0
32	MG	b	212	1/1	0.99	0.03	6,6,6,6	0
32	MG	b	213	1/1	0.99	0.03	22,22,22,22	0
32	MG	b	215	1/1	0.99	0.05	1,1,1,1	0
32	MG	A	4225	1/1	0.99	0.03	26,26,26,26	0
32	MG	b	218	1/1	0.99	0.03	30,30,30,30	0
32	MG	b	219	1/1	0.99	0.02	21,21,21,21	0
32	MG	A	4226	1/1	0.99	0.02	53,53,53,53	0
32	MG	b	221	1/1	0.99	0.03	23,23,23,23	0
32	MG	A	4228	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	3040	1/1	0.99	0.04	83,83,83,83	0
32	MG	c	316	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3506	1/1	0.99	0.04	77,77,77,77	0
32	MG	c	318	1/1	0.99	0.03	0,0,0,0	0
32	MG	c	319	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4232	1/1	0.99	0.01	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	c	321	1/1	0.99	0.02	21,21,21,21	0
32	MG	A	3758	1/1	0.99	0.08	95,95,95,95	0
32	MG	A	4234	1/1	0.99	0.02	25,25,25,25	0
32	MG	c	324	1/1	0.99	0.01	26,26,26,26	0
32	MG	A	4235	1/1	0.99	0.02	24,24,24,24	0
32	MG	c	326	1/1	0.99	0.02	27,27,27,27	0
32	MG	c	327	1/1	0.99	0.04	23,23,23,23	0
32	MG	c	328	1/1	0.99	0.01	16,16,16,16	0
32	MG	c	329	1/1	0.99	0.02	25,25,25,25	0
32	MG	c	330	1/1	0.99	0.02	22,22,22,22	0
32	MG	c	331	1/1	0.99	0.02	21,21,21,21	0
32	MG	A	4236	1/1	0.99	0.03	32,32,32,32	0
32	MG	A	4237	1/1	0.99	0.03	28,28,28,28	0
32	MG	d	317	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	3759	1/1	0.99	0.01	0,0,0,0	0
32	MG	A	3761	1/1	0.99	0.04	4,4,4,4	0
32	MG	d	322	1/1	0.99	0.03	26,26,26,26	0
32	MG	d	323	1/1	0.99	0.02	25,25,25,25	0
32	MG	d	324	1/1	0.99	0.03	30,30,30,30	0
32	MG	d	325	1/1	0.99	0.01	29,29,29,29	0
32	MG	e	311	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4240	1/1	0.99	0.02	32,32,32,32	0
32	MG	e	314	1/1	0.99	0.02	40,40,40,40	0
32	MG	e	315	1/1	0.99	0.03	14,14,14,14	0
32	MG	A	4241	1/1	0.99	0.03	50,50,50,50	0
32	MG	e	317	1/1	0.99	0.05	1,1,1,1	0
32	MG	A	4242	1/1	0.99	0.04	31,31,31,31	0
32	MG	e	320	1/1	0.99	0.03	25,25,25,25	0
32	MG	e	321	1/1	0.99	0.05	31,31,31,31	0
32	MG	e	322	1/1	0.99	0.01	29,29,29,29	0
32	MG	e	323	1/1	0.99	0.02	27,27,27,27	0
32	MG	e	324	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4244	1/1	0.99	0.05	35,35,35,35	0
32	MG	A	4245	1/1	0.99	0.04	30,30,30,30	0
32	MG	e	329	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	3507	1/1	0.99	0.03	62,62,62,62	0
32	MG	A	3763	1/1	0.99	0.04	4,4,4,4	0
32	MG	e	333	1/1	0.99	0.01	26,26,26,26	0
32	MG	A	4248	1/1	0.99	0.06	33,33,33,33	0
32	MG	A	4249	1/1	0.99	0.07	30,30,30,30	0
32	MG	A	4250	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4251	1/1	0.99	0.03	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	f	204	1/1	0.99	0.01	31,31,31,31	0
32	MG	g	201	1/1	0.99	0.01	32,32,32,32	0
32	MG	g	203	1/1	0.99	0.01	25,25,25,25	0
32	MG	g	204	1/1	0.99	0.02	30,30,30,30	0
32	MG	g	205	1/1	0.99	0.02	31,31,31,31	0
32	MG	g	206	1/1	0.99	0.02	29,29,29,29	0
32	MG	g	207	1/1	0.99	0.03	21,21,21,21	0
32	MG	A	4252	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	4253	1/1	0.99	0.05	32,32,32,32	0
32	MG	h	205	1/1	0.99	0.03	95,95,95,95	0
32	MG	h	207	1/1	0.99	0.05	95,95,95,95	0
32	MG	h	208	1/1	0.99	0.02	0,0,0,0	0
32	MG	A	3765	1/1	0.99	0.07	95,95,95,95	0
32	MG	h	210	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4255	1/1	0.99	0.04	31,31,31,31	0
32	MG	h	212	1/1	0.99	0.01	26,26,26,26	0
32	MG	A	3516	1/1	0.99	0.03	63,63,63,63	0
32	MG	h	214	1/1	0.99	0.01	19,19,19,19	0
32	MG	h	215	1/1	0.99	0.01	30,30,30,30	0
32	MG	h	216	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	4257	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4258	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4260	1/1	0.99	0.06	27,27,27,27	0
32	MG	i	209	1/1	0.99	0.03	15,15,15,15	0
32	MG	i	210	1/1	0.99	0.07	29,29,29,29	0
32	MG	i	211	1/1	0.99	0.08	18,18,18,18	0
32	MG	A	4261	1/1	0.99	0.05	31,31,31,31	0
32	MG	i	213	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	4262	1/1	0.99	0.03	33,33,33,33	0
32	MG	i	216	1/1	0.99	0.02	28,28,28,28	0
32	MG	i	217	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3767	1/1	0.99	0.02	5,5,5,5	0
32	MG	A	3519	1/1	0.99	0.03	61,61,61,61	0
32	MG	A	3769	1/1	0.99	0.04	95,95,95,95	0
32	MG	i	221	1/1	0.99	0.02	27,27,27,27	0
32	MG	i	222	1/1	0.99	0.01	30,30,30,30	0
32	MG	i	223	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	4266	1/1	0.99	0.03	27,27,27,27	0
32	MG	i	225	1/1	0.99	0.06	26,26,26,26	0
32	MG	A	3528	1/1	0.99	0.04	70,70,70,70	0
32	MG	j	213	1/1	0.99	0.03	86,86,86,86	0
32	MG	j	214	1/1	0.99	0.04	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	j	215	1/1	0.99	0.05	59,59,59,59	0
32	MG	j	216	1/1	0.99	0.09	95,95,95,95	0
32	MG	A	4268	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	4269	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4270	1/1	0.99	0.01	23,23,23,23	0
32	MG	j	221	1/1	0.99	0.03	33,33,33,33	0
32	MG	k	206	1/1	0.99	0.03	8,8,8,8	0
32	MG	k	207	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4271	1/1	0.99	0.01	26,26,26,26	0
32	MG	k	209	1/1	0.99	0.02	25,25,25,25	0
32	MG	k	210	1/1	0.99	0.03	21,21,21,21	0
32	MG	A	4272	1/1	0.99	0.01	22,22,22,22	0
32	MG	A	3771	1/1	0.99	0.03	14,14,14,14	0
32	MG	k	213	1/1	0.99	0.02	25,25,25,25	0
32	MG	k	214	1/1	0.99	0.01	21,21,21,21	0
32	MG	k	215	1/1	0.99	0.04	30,30,30,30	0
32	MG	k	217	1/1	0.99	0.04	28,28,28,28	0
32	MG	k	218	1/1	0.99	0.02	33,33,33,33	0
32	MG	A	3772	1/1	0.99	0.05	26,26,26,26	0
32	MG	k	220	1/1	0.99	0.03	20,20,20,20	0
32	MG	l	210	1/1	0.99	0.04	69,69,69,69	0
32	MG	A	4275	1/1	0.99	0.02	28,28,28,28	0
32	MG	l	214	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4276	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4277	1/1	0.99	0.03	23,23,23,23	0
32	MG	m	201	1/1	0.99	0.04	73,73,73,73	0
32	MG	m	207	1/1	0.99	0.04	5,5,5,5	0
32	MG	m	208	1/1	0.99	0.03	16,16,16,16	0
32	MG	m	209	1/1	0.99	0.07	95,95,95,95	0
32	MG	m	210	1/1	0.99	0.02	49,49,49,49	0
32	MG	m	211	1/1	0.99	0.02	7,7,7,7	0
32	MG	A	3773	1/1	0.99	0.03	2,2,2,2	0
32	MG	A	3775	1/1	0.99	0.10	4,4,4,4	0
32	MG	A	3533	1/1	0.99	0.03	82,82,82,82	0
32	MG	m	216	1/1	0.99	0.02	15,15,15,15	0
32	MG	m	217	1/1	0.99	0.02	22,22,22,22	0
32	MG	A	4281	1/1	0.99	0.03	27,27,27,27	0
32	MG	m	219	1/1	0.99	0.01	21,21,21,21	0
32	MG	A	4283	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	4284	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3536	1/1	0.99	0.06	100,100,100,100	0
32	MG	n	205	1/1	0.99	0.01	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3778	1/1	0.99	0.02	94,94,94,94	0
32	MG	o	206	1/1	0.99	0.04	60,60,60,60	0
32	MG	A	4288	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	3779	1/1	0.99	0.04	17,17,17,17	0
32	MG	A	3781	1/1	0.99	0.05	6,6,6,6	0
32	MG	o	216	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4292	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	3539	1/1	0.99	0.07	80,80,80,80	0
32	MG	A	4294	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4295	1/1	0.99	0.03	24,24,24,24	0
32	MG	o	221	1/1	0.99	0.02	21,21,21,21	0
32	MG	A	3784	1/1	0.99	0.04	95,95,95,95	0
32	MG	o	223	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4297	1/1	0.99	0.04	27,27,27,27	0
32	MG	o	225	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4298	1/1	0.99	0.02	25,25,25,25	0
32	MG	o	227	1/1	0.99	0.02	23,23,23,23	0
32	MG	o	228	1/1	0.99	0.01	20,20,20,20	0
32	MG	A	4299	1/1	0.99	0.04	26,26,26,26	0
32	MG	o	230	1/1	0.99	0.02	22,22,22,22	0
32	MG	o	231	1/1	0.99	0.03	26,26,26,26	0
32	MG	p	204	1/1	0.99	0.02	83,83,83,83	0
32	MG	A	4300	1/1	0.99	0.04	30,30,30,30	0
32	MG	A	4301	1/1	0.99	0.04	15,15,15,15	0
32	MG	p	211	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3785	1/1	0.99	0.02	90,90,90,90	0
32	MG	A	4303	1/1	0.99	0.02	31,31,31,31	0
32	MG	p	214	1/1	0.99	0.03	25,25,25,25	0
32	MG	p	215	1/1	0.99	0.04	30,30,30,30	0
32	MG	A	4304	1/1	0.99	0.10	28,28,28,28	0
32	MG	q	208	1/1	0.99	0.03	1,1,1,1	0
32	MG	q	209	1/1	0.99	0.02	4,4,4,4	0
32	MG	q	210	1/1	0.99	0.02	95,95,95,95	0
32	MG	q	211	1/1	0.99	0.02	27,27,27,27	0
32	MG	q	212	1/1	0.99	0.01	28,28,28,28	0
32	MG	q	213	1/1	0.99	0.02	28,28,28,28	0
32	MG	q	214	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	4305	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	4306	1/1	0.99	0.03	32,32,32,32	0
32	MG	q	218	1/1	0.99	0.02	28,28,28,28	0
32	MG	q	219	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4307	1/1	0.99	0.02	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4308	1/1	0.99	0.06	30,30,30,30	0
32	MG	q	222	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	3044	1/1	0.99	0.04	87,87,87,87	0
32	MG	q	224	1/1	0.99	0.01	28,28,28,28	0
32	MG	q	225	1/1	0.99	0.02	28,28,28,28	0
32	MG	q	226	1/1	0.99	0.01	30,30,30,30	0
32	MG	A	4310	1/1	0.99	0.05	15,15,15,15	0
32	MG	q	229	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4311	1/1	0.99	0.03	25,25,25,25	0
32	MG	r	203	1/1	0.99	0.03	57,57,57,57	0
32	MG	r	209	1/1	0.99	0.06	76,76,76,76	0
32	MG	r	211	1/1	0.99	0.03	18,18,18,18	0
32	MG	A	4312	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	4313	1/1	0.99	0.02	32,32,32,32	0
32	MG	r	214	1/1	0.99	0.08	19,19,19,19	0
32	MG	r	215	1/1	0.99	0.03	95,95,95,95	0
32	MG	r	216	1/1	0.99	0.02	1,1,1,1	0
32	MG	A	4314	1/1	0.99	0.03	27,27,27,27	0
32	MG	r	219	1/1	0.99	0.04	35,35,35,35	0
32	MG	r	220	1/1	0.99	0.03	25,25,25,25	0
32	MG	r	221	1/1	0.99	0.02	29,29,29,29	0
32	MG	r	222	1/1	0.99	0.03	28,28,28,28	0
32	MG	r	223	1/1	0.99	0.02	25,25,25,25	0
32	MG	r	224	1/1	0.99	0.02	25,25,25,25	0
32	MG	r	225	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4315	1/1	0.99	0.01	27,27,27,27	0
32	MG	r	227	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	4316	1/1	0.99	0.02	34,34,34,34	0
32	MG	s	104	1/1	0.99	0.03	9,9,9,9	0
32	MG	A	4318	1/1	0.99	0.05	32,32,32,32	0
32	MG	s	106	1/1	0.99	0.03	4,4,4,4	0
32	MG	s	107	1/1	0.99	0.03	28,28,28,28	0
32	MG	s	108	1/1	0.99	0.02	26,26,26,26	0
32	MG	s	109	1/1	0.99	0.04	28,28,28,28	0
32	MG	s	110	1/1	0.99	0.02	22,22,22,22	0
32	MG	t	504	1/1	0.99	0.04	95,95,95,95	0
32	MG	t	505	1/1	0.99	0.03	26,26,26,26	0
32	MG	u	316	1/1	0.99	0.02	18,18,18,18	0
32	MG	u	317	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3543	1/1	0.99	0.03	78,78,78,78	0
32	MG	A	3788	1/1	0.99	0.08	95,95,95,95	0
32	MG	A	4322	1/1	0.99	0.03	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
32	MG	u	322	1/1	0.99	0.02	95,95,95,95	0
32	MG	u	323	1/1	0.99	0.01	26,26,26,26	0
32	MG	u	324	1/1	0.99	0.02	27,27,27,27	0
32	MG	u	325	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	4323	1/1	0.99	0.04	22,22,22,22	0
32	MG	v	109	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	3789	1/1	0.99	0.06	95,95,95,95	0
32	MG	v	111	1/1	0.99	0.02	28,28,28,28	0
32	MG	w	102	1/1	0.99	0.03	80,80,80,80	0
32	MG	A	4325	1/1	0.99	0.01	25,25,25,25	0
32	MG	w	107	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3547	1/1	0.99	0.11	98,98,98,98	0
32	MG	w	109	1/1	0.99	0.02	22,22,22,22	0
32	MG	A	3791	1/1	0.99	0.03	95,95,95,95	0
32	MG	x	105	1/1	0.99	0.03	48,48,48,48	0
32	MG	x	107	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4328	1/1	0.99	0.01	22,22,22,22	0
32	MG	x	109	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4329	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	4330	1/1	0.99	0.01	29,29,29,29	0
32	MG	A	3549	1/1	0.99	0.04	78,78,78,78	0
32	MG	y	607	1/1	0.99	0.03	9,9,9,9	0
32	MG	y	608	1/1	0.99	0.03	29,29,29,29	0
32	MG	y	609	1/1	0.99	0.03	29,29,29,29	0
32	MG	z	502	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4332	1/1	0.99	0.01	24,24,24,24	0
32	MG	z	504	1/1	0.99	0.02	26,26,26,26	0
32	MG	z	505	1/1	0.99	0.01	23,23,23,23	0
32	MG	A	3793	1/1	0.99	0.01	15,15,15,15	0
32	MG	5	103	1/1	0.99	0.04	40,40,40,40	0
32	MG	5	104	1/1	0.99	0.02	9,9,9,9	0
32	MG	A	3794	1/1	0.99	0.02	7,7,7,7	0
32	MG	5	106	1/1	0.99	0.09	95,95,95,95	0
32	MG	5	107	1/1	0.99	0.02	21,21,21,21	0
32	MG	5	108	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4335	1/1	0.99	0.03	18,18,18,18	0
32	MG	7	104	1/1	0.99	0.04	8,8,8,8	0
32	MG	7	105	1/1	0.99	0.04	19,19,19,19	0
32	MG	A	4336	1/1	0.99	0.04	27,27,27,27	0
32	MG	7	107	1/1	0.99	0.05	33,33,33,33	0
32	MG	8	104	1/1	0.99	0.03	9,9,9,9	0
32	MG	A	4337	1/1	0.99	0.04	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	8	107	1/1	0.99	0.01	29,29,29,29	0
32	MG	8	108	1/1	0.99	0.06	29,29,29,29	0
32	MG	A	4338	1/1	0.99	0.02	25,25,25,25	0
32	MG	8	111	1/1	0.99	0.06	29,29,29,29	0
32	MG	8	112	1/1	0.99	0.05	30,30,30,30	0
32	MG	9	103	1/1	0.99	0.05	67,67,67,67	0
32	MG	A	3795	1/1	0.99	0.04	26,26,26,26	0
32	MG	A	3796	1/1	0.99	0.06	95,95,95,95	0
33	ZN	z	501	1/1	0.99	0.02	176,176,176,176	0
33	ZN	6	501	1/1	0.99	0.03	233,233,233,233	0
32	MG	A	3392	1/1	1.00	0.03	72,72,72,72	0
32	MG	a	3305	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3306	1/1	1.00	0.02	35,35,35,35	0
32	MG	a	3307	1/1	1.00	0.02	48,48,48,48	0
32	MG	A	3393	1/1	1.00	0.02	57,57,57,57	0
32	MG	a	3309	1/1	1.00	0.03	90,90,90,90	0
32	MG	a	3310	1/1	1.00	0.02	45,45,45,45	0
32	MG	a	3311	1/1	1.00	0.01	63,63,63,63	0
32	MG	A	3975	1/1	1.00	0.03	35,35,35,35	0
32	MG	a	3313	1/1	1.00	0.03	40,40,40,40	0
32	MG	a	3314	1/1	1.00	0.03	35,35,35,35	0
32	MG	a	3315	1/1	1.00	0.03	81,81,81,81	0
32	MG	a	3316	1/1	1.00	0.01	36,36,36,36	0
32	MG	a	3317	1/1	1.00	0.03	63,63,63,63	0
32	MG	A	3394	1/1	1.00	0.01	39,39,39,39	0
32	MG	a	3319	1/1	1.00	0.02	76,76,76,76	0
32	MG	a	3320	1/1	1.00	0.03	37,37,37,37	0
32	MG	a	3321	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3322	1/1	1.00	0.02	43,43,43,43	0
32	MG	a	3323	1/1	1.00	0.03	30,30,30,30	0
32	MG	A	3395	1/1	1.00	0.03	52,52,52,52	0
32	MG	a	3325	1/1	1.00	0.02	38,38,38,38	0
32	MG	a	3326	1/1	1.00	0.02	43,43,43,43	0
32	MG	a	3327	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3328	1/1	1.00	0.03	90,90,90,90	0
32	MG	a	3329	1/1	1.00	0.04	63,63,63,63	0
32	MG	A	3396	1/1	1.00	0.02	40,40,40,40	0
32	MG	a	3331	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3332	1/1	1.00	0.02	35,35,35,35	0
32	MG	A	3397	1/1	1.00	0.01	62,62,62,62	0
32	MG	a	3334	1/1	1.00	0.04	61,61,61,61	0
32	MG	a	3335	1/1	1.00	0.03	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3336	1/1	1.00	0.01	33,33,33,33	0
32	MG	a	3337	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	3338	1/1	1.00	0.04	53,53,53,53	0
32	MG	a	3339	1/1	1.00	0.03	54,54,54,54	0
32	MG	a	3340	1/1	1.00	0.02	45,45,45,45	0
32	MG	a	3341	1/1	1.00	0.02	71,71,71,71	0
32	MG	A	3398	1/1	1.00	0.05	49,49,49,49	0
32	MG	a	3343	1/1	1.00	0.04	58,58,58,58	0
32	MG	a	3344	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3345	1/1	1.00	0.02	55,55,55,55	0
32	MG	a	3346	1/1	1.00	0.03	55,55,55,55	0
32	MG	a	3347	1/1	1.00	0.03	47,47,47,47	0
32	MG	A	3981	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3349	1/1	1.00	0.01	40,40,40,40	0
32	MG	A	3399	1/1	1.00	0.03	51,51,51,51	0
32	MG	a	3351	1/1	1.00	0.02	69,69,69,69	0
32	MG	a	3352	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3353	1/1	1.00	0.03	50,50,50,50	0
32	MG	a	3354	1/1	1.00	0.02	75,75,75,75	0
32	MG	a	3355	1/1	1.00	0.03	81,81,81,81	0
32	MG	a	3356	1/1	1.00	0.03	43,43,43,43	0
32	MG	a	3357	1/1	1.00	0.04	53,53,53,53	0
32	MG	a	3358	1/1	1.00	0.01	42,42,42,42	0
32	MG	a	3359	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3360	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3361	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3362	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3363	1/1	1.00	0.03	62,62,62,62	0
32	MG	a	3364	1/1	1.00	0.04	48,48,48,48	0
32	MG	a	3365	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3366	1/1	1.00	0.03	64,64,64,64	0
32	MG	a	3367	1/1	1.00	0.01	57,57,57,57	0
32	MG	a	3368	1/1	1.00	0.03	79,79,79,79	0
32	MG	a	3369	1/1	1.00	0.02	46,46,46,46	0
32	MG	a	3370	1/1	1.00	0.04	54,54,54,54	0
32	MG	A	3400	1/1	1.00	0.02	45,45,45,45	0
32	MG	a	3372	1/1	1.00	0.06	74,74,74,74	0
32	MG	a	3373	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3374	1/1	1.00	0.05	51,51,51,51	0
32	MG	A	3401	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	3376	1/1	1.00	0.04	48,48,48,48	0
32	MG	a	3377	1/1	1.00	0.04	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3378	1/1	1.00	0.02	52,52,52,52	0
32	MG	a	3379	1/1	1.00	0.02	50,50,50,50	0
32	MG	a	3380	1/1	1.00	0.03	65,65,65,65	0
32	MG	a	3381	1/1	1.00	0.03	45,45,45,45	0
32	MG	a	3382	1/1	1.00	0.03	36,36,36,36	0
32	MG	a	3383	1/1	1.00	0.02	47,47,47,47	0
32	MG	a	3384	1/1	1.00	0.02	53,53,53,53	0
32	MG	A	3402	1/1	1.00	0.03	45,45,45,45	0
32	MG	a	3386	1/1	1.00	0.04	32,32,32,32	0
32	MG	a	3387	1/1	1.00	0.02	48,48,48,48	0
32	MG	A	3986	1/1	1.00	0.06	25,25,25,25	0
32	MG	a	3389	1/1	1.00	0.03	62,62,62,62	0
32	MG	a	3390	1/1	1.00	0.01	62,62,62,62	0
32	MG	A	3403	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3392	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3393	1/1	1.00	0.04	74,74,74,74	0
32	MG	A	3404	1/1	1.00	0.02	37,37,37,37	0
32	MG	a	3395	1/1	1.00	0.04	67,67,67,67	0
32	MG	a	3396	1/1	1.00	0.01	42,42,42,42	0
32	MG	a	3397	1/1	1.00	0.03	52,52,52,52	0
32	MG	a	3398	1/1	1.00	0.01	61,61,61,61	0
32	MG	a	3399	1/1	1.00	0.03	36,36,36,36	0
32	MG	A	3405	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3401	1/1	1.00	0.02	62,62,62,62	0
32	MG	a	3402	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3403	1/1	1.00	0.02	45,45,45,45	0
32	MG	a	3404	1/1	1.00	0.03	65,65,65,65	0
32	MG	a	3405	1/1	1.00	0.04	70,70,70,70	0
32	MG	a	3406	1/1	1.00	0.01	45,45,45,45	0
32	MG	a	3407	1/1	1.00	0.04	37,37,37,37	0
32	MG	a	3408	1/1	1.00	0.03	65,65,65,65	0
32	MG	a	3409	1/1	1.00	0.01	39,39,39,39	0
32	MG	a	3410	1/1	1.00	0.02	46,46,46,46	0
32	MG	a	3411	1/1	1.00	0.04	51,51,51,51	0
32	MG	a	3412	1/1	1.00	0.03	68,68,68,68	0
32	MG	a	3413	1/1	1.00	0.02	67,67,67,67	0
32	MG	a	3414	1/1	1.00	0.03	62,62,62,62	0
32	MG	a	3415	1/1	1.00	0.02	44,44,44,44	0
32	MG	A	3406	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	3417	1/1	1.00	0.02	37,37,37,37	0
32	MG	a	3418	1/1	1.00	0.02	67,67,67,67	0
32	MG	A	3407	1/1	1.00	0.01	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3420	1/1	1.00	0.01	43,43,43,43	0
32	MG	a	3421	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3422	1/1	1.00	0.01	26,26,26,26	0
32	MG	a	3423	1/1	1.00	0.04	79,79,79,79	0
32	MG	a	3424	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3425	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3426	1/1	1.00	0.04	54,54,54,54	0
32	MG	a	3427	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3428	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3429	1/1	1.00	0.02	32,32,32,32	0
32	MG	A	3408	1/1	1.00	0.01	48,48,48,48	0
32	MG	a	3431	1/1	1.00	0.01	69,69,69,69	0
32	MG	a	3432	1/1	1.00	0.03	63,63,63,63	0
32	MG	A	3409	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3434	1/1	1.00	0.02	73,73,73,73	0
32	MG	a	3435	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3436	1/1	1.00	0.01	69,69,69,69	0
32	MG	a	3437	1/1	1.00	0.02	51,51,51,51	0
32	MG	A	3410	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3439	1/1	1.00	0.06	61,61,61,61	0
32	MG	a	3440	1/1	1.00	0.05	73,73,73,73	0
32	MG	a	3441	1/1	1.00	0.02	47,47,47,47	0
32	MG	a	3442	1/1	1.00	0.03	58,58,58,58	0
32	MG	A	3411	1/1	1.00	0.01	73,73,73,73	0
32	MG	a	3444	1/1	1.00	0.01	66,66,66,66	0
32	MG	a	3445	1/1	1.00	0.01	39,39,39,39	0
32	MG	a	3446	1/1	1.00	0.04	39,39,39,39	0
32	MG	A	3996	1/1	1.00	0.02	14,14,14,14	0
32	MG	a	3448	1/1	1.00	0.01	48,48,48,48	0
32	MG	a	3449	1/1	1.00	0.01	36,36,36,36	0
32	MG	a	3450	1/1	1.00	0.03	52,52,52,52	0
32	MG	a	3451	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3452	1/1	1.00	0.04	53,53,53,53	0
32	MG	a	3453	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3454	1/1	1.00	0.01	71,71,71,71	0
32	MG	a	3455	1/1	1.00	0.05	55,55,55,55	0
32	MG	a	3456	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3457	1/1	1.00	0.04	45,45,45,45	0
32	MG	a	3458	1/1	1.00	0.02	44,44,44,44	0
32	MG	a	3459	1/1	1.00	0.03	34,34,34,34	0
32	MG	A	3412	1/1	1.00	0.04	68,68,68,68	0
32	MG	a	3461	1/1	1.00	0.01	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3462	1/1	1.00	0.05	86,86,86,86	0
32	MG	A	3047	1/1	1.00	0.01	24,24,24,24	0
32	MG	a	3464	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	3465	1/1	1.00	0.02	67,67,67,67	0
32	MG	a	3466	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3467	1/1	1.00	0.04	76,76,76,76	0
32	MG	a	3468	1/1	1.00	0.04	50,50,50,50	0
32	MG	a	3469	1/1	1.00	0.04	70,70,70,70	0
32	MG	a	3470	1/1	1.00	0.01	58,58,58,58	0
32	MG	a	3471	1/1	1.00	0.02	86,86,86,86	0
32	MG	a	3472	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3473	1/1	1.00	0.03	57,57,57,57	0
32	MG	a	3474	1/1	1.00	0.03	50,50,50,50	0
32	MG	a	3475	1/1	1.00	0.03	53,53,53,53	0
32	MG	a	3476	1/1	1.00	0.03	35,35,35,35	0
32	MG	A	3999	1/1	1.00	0.02	15,15,15,15	0
32	MG	a	3478	1/1	1.00	0.05	66,66,66,66	0
32	MG	A	3006	1/1	1.00	0.04	24,24,24,24	0
32	MG	A	3415	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3049	1/1	1.00	0.03	34,34,34,34	0
32	MG	a	3482	1/1	1.00	0.01	53,53,53,53	0
32	MG	a	3483	1/1	1.00	0.03	75,75,75,75	0
32	MG	a	3484	1/1	1.00	0.02	62,62,62,62	0
32	MG	a	3485	1/1	1.00	0.05	66,66,66,66	0
32	MG	a	3486	1/1	1.00	0.02	85,85,85,85	0
32	MG	A	4003	1/1	1.00	0.02	15,15,15,15	0
32	MG	a	3488	1/1	1.00	0.02	34,34,34,34	0
32	MG	a	3489	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3490	1/1	1.00	0.01	58,58,58,58	0
32	MG	A	3417	1/1	1.00	0.01	61,61,61,61	0
32	MG	a	3492	1/1	1.00	0.01	42,42,42,42	0
32	MG	a	3493	1/1	1.00	0.01	57,57,57,57	0
32	MG	a	3494	1/1	1.00	0.01	57,57,57,57	0
32	MG	a	3495	1/1	1.00	0.04	60,60,60,60	0
32	MG	a	3496	1/1	1.00	0.02	40,40,40,40	0
32	MG	a	3497	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	3498	1/1	1.00	0.01	72,72,72,72	0
32	MG	a	3499	1/1	1.00	0.01	80,80,80,80	0
32	MG	a	3500	1/1	1.00	0.01	68,68,68,68	0
32	MG	a	3501	1/1	1.00	0.02	73,73,73,73	0
32	MG	a	3502	1/1	1.00	0.02	144,144,144,144	0
32	MG	a	3503	1/1	1.00	0.02	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3504	1/1	1.00	0.01	84,84,84,84	0
32	MG	a	3505	1/1	1.00	0.02	65,65,65,65	0
32	MG	A	3007	1/1	1.00	0.02	33,33,33,33	0
32	MG	a	3507	1/1	1.00	0.02	52,52,52,52	0
32	MG	a	3508	1/1	1.00	0.02	39,39,39,39	0
32	MG	a	3509	1/1	1.00	0.01	49,49,49,49	0
32	MG	a	3510	1/1	1.00	0.01	44,44,44,44	0
32	MG	a	3511	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3512	1/1	1.00	0.03	65,65,65,65	0
32	MG	a	3513	1/1	1.00	0.03	68,68,68,68	0
32	MG	a	3514	1/1	1.00	0.03	63,63,63,63	0
32	MG	a	3515	1/1	1.00	0.02	38,38,38,38	0
32	MG	a	3516	1/1	1.00	0.04	46,46,46,46	0
32	MG	a	3517	1/1	1.00	0.03	51,51,51,51	0
32	MG	a	3518	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3519	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3520	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3521	1/1	1.00	0.01	39,39,39,39	0
32	MG	A	3419	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3523	1/1	1.00	0.01	62,62,62,62	0
32	MG	a	3524	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3525	1/1	1.00	0.03	58,58,58,58	0
32	MG	a	3526	1/1	1.00	0.03	53,53,53,53	0
32	MG	A	3420	1/1	1.00	0.02	72,72,72,72	0
32	MG	a	3528	1/1	1.00	0.04	69,69,69,69	0
32	MG	a	3529	1/1	1.00	0.02	84,84,84,84	0
32	MG	a	3530	1/1	1.00	0.04	66,66,66,66	0
32	MG	a	3531	1/1	1.00	0.03	55,55,55,55	0
32	MG	A	3421	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3008	1/1	1.00	0.04	35,35,35,35	0
32	MG	a	3534	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3535	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	4010	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	3537	1/1	1.00	0.03	63,63,63,63	0
32	MG	a	3538	1/1	1.00	0.03	46,46,46,46	0
32	MG	a	3539	1/1	1.00	0.03	68,68,68,68	0
32	MG	a	3540	1/1	1.00	0.02	51,51,51,51	0
32	MG	A	3423	1/1	1.00	0.01	86,86,86,86	0
32	MG	A	3424	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3543	1/1	1.00	0.03	58,58,58,58	0
32	MG	a	3544	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3545	1/1	1.00	0.02	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3546	1/1	1.00	0.02	39,39,39,39	0
32	MG	a	3547	1/1	1.00	0.01	39,39,39,39	0
32	MG	A	3425	1/1	1.00	0.02	39,39,39,39	0
32	MG	a	3549	1/1	1.00	0.01	52,52,52,52	0
32	MG	A	3426	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3551	1/1	1.00	0.02	55,55,55,55	0
32	MG	a	3552	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3553	1/1	1.00	0.03	44,44,44,44	0
32	MG	A	3427	1/1	1.00	0.03	26,26,26,26	0
32	MG	a	3555	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3556	1/1	1.00	0.01	66,66,66,66	0
32	MG	a	3557	1/1	1.00	0.01	50,50,50,50	0
32	MG	a	3558	1/1	1.00	0.05	44,44,44,44	0
32	MG	a	3559	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3560	1/1	1.00	0.02	57,57,57,57	0
32	MG	a	3561	1/1	1.00	0.04	45,45,45,45	0
32	MG	a	3562	1/1	1.00	0.01	57,57,57,57	0
32	MG	a	3563	1/1	1.00	0.03	93,93,93,93	0
32	MG	a	3564	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3565	1/1	1.00	0.04	66,66,66,66	0
32	MG	a	3566	1/1	1.00	0.01	46,46,46,46	0
32	MG	A	3428	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	3568	1/1	1.00	0.02	69,69,69,69	0
32	MG	a	3569	1/1	1.00	0.02	46,46,46,46	0
32	MG	a	3570	1/1	1.00	0.02	50,50,50,50	0
32	MG	a	3571	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3572	1/1	1.00	0.03	40,40,40,40	0
32	MG	a	3573	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3574	1/1	1.00	0.04	43,43,43,43	0
32	MG	a	3575	1/1	1.00	0.02	36,36,36,36	0
32	MG	a	3576	1/1	1.00	0.03	45,45,45,45	0
32	MG	a	3577	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3578	1/1	1.00	0.02	71,71,71,71	0
32	MG	a	3579	1/1	1.00	0.01	83,83,83,83	0
32	MG	a	3580	1/1	1.00	0.03	53,53,53,53	0
32	MG	a	3581	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3429	1/1	1.00	0.02	62,62,62,62	0
32	MG	a	3583	1/1	1.00	0.01	73,73,73,73	0
32	MG	a	3584	1/1	1.00	0.01	62,62,62,62	0
32	MG	a	3585	1/1	1.00	0.01	67,67,67,67	0
32	MG	A	4018	1/1	1.00	0.03	25,25,25,25	0
32	MG	a	3587	1/1	1.00	0.03	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3588	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3589	1/1	1.00	0.01	48,48,48,48	0
32	MG	a	3590	1/1	1.00	0.02	44,44,44,44	0
32	MG	A	3430	1/1	1.00	0.02	68,68,68,68	0
32	MG	a	3592	1/1	1.00	0.03	54,54,54,54	0
32	MG	a	3593	1/1	1.00	0.02	70,70,70,70	0
32	MG	A	3431	1/1	1.00	0.01	59,59,59,59	0
32	MG	a	3595	1/1	1.00	0.02	75,75,75,75	0
32	MG	a	3596	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3597	1/1	1.00	0.03	45,45,45,45	0
32	MG	a	3598	1/1	1.00	0.01	41,41,41,41	0
32	MG	a	3599	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3600	1/1	1.00	0.01	78,78,78,78	0
32	MG	A	3432	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3602	1/1	1.00	0.03	34,34,34,34	0
32	MG	a	3603	1/1	1.00	0.02	55,55,55,55	0
32	MG	a	3604	1/1	1.00	0.02	44,44,44,44	0
32	MG	a	3605	1/1	1.00	0.01	48,48,48,48	0
32	MG	a	3606	1/1	1.00	0.03	88,88,88,88	0
32	MG	a	3607	1/1	1.00	0.03	93,93,93,93	0
32	MG	a	3608	1/1	1.00	0.02	36,36,36,36	0
32	MG	a	3609	1/1	1.00	0.05	71,71,71,71	0
32	MG	a	3610	1/1	1.00	0.01	52,52,52,52	0
32	MG	a	3611	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	3612	1/1	1.00	0.01	50,50,50,50	0
32	MG	a	3613	1/1	1.00	0.01	43,43,43,43	0
32	MG	a	3614	1/1	1.00	0.01	68,68,68,68	0
32	MG	a	3615	1/1	1.00	0.02	45,45,45,45	0
32	MG	a	3616	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3617	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3618	1/1	1.00	0.02	67,67,67,67	0
32	MG	a	3619	1/1	1.00	0.03	46,46,46,46	0
32	MG	a	3620	1/1	1.00	0.03	53,53,53,53	0
32	MG	a	3621	1/1	1.00	0.02	57,57,57,57	0
32	MG	a	3622	1/1	1.00	0.01	69,69,69,69	0
32	MG	a	3623	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	3624	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3625	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	3626	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3627	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3628	1/1	1.00	0.03	72,72,72,72	0
32	MG	A	3433	1/1	1.00	0.04	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3630	1/1	1.00	0.02	74,74,74,74	0
32	MG	a	3631	1/1	1.00	0.02	65,65,65,65	0
32	MG	a	3632	1/1	1.00	0.03	72,72,72,72	0
32	MG	A	3434	1/1	1.00	0.02	65,65,65,65	0
32	MG	A	3435	1/1	1.00	0.04	97,97,97,97	0
32	MG	a	3635	1/1	1.00	0.02	74,74,74,74	0
32	MG	a	3636	1/1	1.00	0.02	87,87,87,87	0
32	MG	A	3436	1/1	1.00	0.04	66,66,66,66	0
32	MG	A	3437	1/1	1.00	0.01	52,52,52,52	0
32	MG	a	3639	1/1	1.00	0.03	65,65,65,65	0
32	MG	a	3640	1/1	1.00	0.02	91,91,91,91	0
32	MG	A	3438	1/1	1.00	0.01	49,49,49,49	0
32	MG	a	3642	1/1	1.00	0.02	87,87,87,87	0
32	MG	A	3439	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3644	1/1	1.00	0.07	51,51,51,51	0
32	MG	A	3440	1/1	1.00	0.01	83,83,83,83	0
32	MG	a	3646	1/1	1.00	0.01	66,66,66,66	0
32	MG	A	3441	1/1	1.00	0.02	71,71,71,71	0
32	MG	a	3648	1/1	1.00	0.04	63,63,63,63	0
32	MG	a	3649	1/1	1.00	0.01	58,58,58,58	0
32	MG	A	3442	1/1	1.00	0.04	47,47,47,47	0
32	MG	A	3443	1/1	1.00	0.01	61,61,61,61	0
32	MG	A	3052	1/1	1.00	0.02	47,47,47,47	0
32	MG	a	3653	1/1	1.00	0.04	67,67,67,67	0
32	MG	A	3445	1/1	1.00	0.04	85,85,85,85	0
32	MG	a	3655	1/1	1.00	0.04	75,75,75,75	0
32	MG	a	3656	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3446	1/1	1.00	0.03	52,52,52,52	0
32	MG	A	3447	1/1	1.00	0.01	59,59,59,59	0
32	MG	a	3659	1/1	1.00	0.03	69,69,69,69	0
32	MG	A	3448	1/1	1.00	0.02	60,60,60,60	0
32	MG	A	3449	1/1	1.00	0.03	63,63,63,63	0
32	MG	a	3662	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3663	1/1	1.00	0.03	78,78,78,78	0
32	MG	a	3664	1/1	1.00	0.03	71,71,71,71	0
32	MG	a	3665	1/1	1.00	0.03	62,62,62,62	0
32	MG	a	3666	1/1	1.00	0.02	69,69,69,69	0
32	MG	a	3667	1/1	1.00	0.01	64,64,64,64	0
32	MG	a	3668	1/1	1.00	0.07	68,68,68,68	0
32	MG	a	3669	1/1	1.00	0.04	58,58,58,58	0
32	MG	a	3670	1/1	1.00	0.03	79,79,79,79	0
32	MG	A	3450	1/1	1.00	0.02	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3672	1/1	1.00	0.04	58,58,58,58	0
32	MG	a	3673	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3674	1/1	1.00	0.04	55,55,55,55	0
32	MG	A	3451	1/1	1.00	0.01	55,55,55,55	0
32	MG	a	3676	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3677	1/1	1.00	0.05	75,75,75,75	0
32	MG	a	3678	1/1	1.00	0.05	71,71,71,71	0
32	MG	A	4041	1/1	1.00	0.02	16,16,16,16	0
32	MG	A	3452	1/1	1.00	0.02	113,113,113,113	0
32	MG	a	3681	1/1	1.00	0.04	72,72,72,72	0
32	MG	a	3682	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3683	1/1	1.00	0.01	77,77,77,77	0
32	MG	a	3684	1/1	1.00	0.02	70,70,70,70	0
32	MG	A	3453	1/1	1.00	0.02	65,65,65,65	0
32	MG	a	3686	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3687	1/1	1.00	0.03	69,69,69,69	0
32	MG	a	3688	1/1	1.00	0.01	39,39,39,39	0
32	MG	a	3689	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	3690	1/1	1.00	0.02	70,70,70,70	0
32	MG	a	3691	1/1	1.00	0.01	80,80,80,80	0
32	MG	a	3692	1/1	1.00	0.04	73,73,73,73	0
32	MG	a	3693	1/1	1.00	0.03	93,93,93,93	0
32	MG	a	3694	1/1	1.00	0.02	57,57,57,57	0
32	MG	a	3695	1/1	1.00	0.02	73,73,73,73	0
32	MG	A	3454	1/1	1.00	0.00	42,42,42,42	0
32	MG	A	3455	1/1	1.00	0.04	44,44,44,44	0
32	MG	a	3698	1/1	1.00	0.04	83,83,83,83	0
32	MG	a	3699	1/1	1.00	0.03	67,67,67,67	0
32	MG	A	3456	1/1	1.00	0.02	52,52,52,52	0
32	MG	a	3701	1/1	1.00	0.02	76,76,76,76	0
32	MG	A	3457	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3703	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3704	1/1	1.00	0.06	89,89,89,89	0
32	MG	a	3705	1/1	1.00	0.04	61,61,61,61	0
32	MG	A	3458	1/1	1.00	0.03	40,40,40,40	0
32	MG	a	3707	1/1	1.00	0.04	69,69,69,69	0
32	MG	A	3053	1/1	1.00	0.01	28,28,28,28	0
32	MG	a	3709	1/1	1.00	0.02	64,64,64,64	0
32	MG	A	3460	1/1	1.00	0.04	72,72,72,72	0
32	MG	a	3711	1/1	1.00	0.03	64,64,64,64	0
32	MG	a	3712	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	3713	1/1	1.00	0.03	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3461	1/1	1.00	0.02	57,57,57,57	0
32	MG	a	3715	1/1	1.00	0.04	65,65,65,65	0
32	MG	A	3462	1/1	1.00	0.01	41,41,41,41	0
32	MG	a	3717	1/1	1.00	0.03	69,69,69,69	0
32	MG	a	3718	1/1	1.00	0.03	77,77,77,77	0
32	MG	a	3719	1/1	1.00	0.03	80,80,80,80	0
32	MG	a	3720	1/1	1.00	0.01	75,75,75,75	0
32	MG	a	3721	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3722	1/1	1.00	0.03	79,79,79,79	0
32	MG	A	3463	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3724	1/1	1.00	0.04	55,55,55,55	0
32	MG	A	3464	1/1	1.00	0.02	34,34,34,34	0
32	MG	A	3465	1/1	1.00	0.01	86,86,86,86	0
32	MG	a	3727	1/1	1.00	0.03	78,78,78,78	0
32	MG	a	3728	1/1	1.00	0.03	72,72,72,72	0
32	MG	A	3054	1/1	1.00	0.01	32,32,32,32	0
32	MG	a	3730	1/1	1.00	0.06	58,58,58,58	0
32	MG	a	3731	1/1	1.00	0.02	62,62,62,62	0
32	MG	a	3732	1/1	1.00	0.04	60,60,60,60	0
32	MG	a	3733	1/1	1.00	0.04	86,86,86,86	0
32	MG	a	3734	1/1	1.00	0.03	74,74,74,74	0
32	MG	a	3735	1/1	1.00	0.02	68,68,68,68	0
32	MG	A	3467	1/1	1.00	0.04	54,54,54,54	0
32	MG	a	3737	1/1	1.00	0.01	59,59,59,59	0
32	MG	a	3738	1/1	1.00	0.05	70,70,70,70	0
32	MG	a	3739	1/1	1.00	0.02	84,84,84,84	0
32	MG	A	3468	1/1	1.00	0.02	73,73,73,73	0
32	MG	a	3741	1/1	1.00	0.03	85,85,85,85	0
32	MG	a	3742	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3743	1/1	1.00	0.02	83,83,83,83	0
32	MG	A	3469	1/1	1.00	0.02	64,64,64,64	0
32	MG	A	3470	1/1	1.00	0.08	47,47,47,47	0
32	MG	A	3471	1/1	1.00	0.04	80,80,80,80	0
32	MG	a	3747	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3748	1/1	1.00	0.02	72,72,72,72	0
32	MG	a	3749	1/1	1.00	0.02	67,67,67,67	0
32	MG	a	3750	1/1	1.00	0.01	64,64,64,64	0
32	MG	a	3751	1/1	1.00	0.04	61,61,61,61	0
32	MG	A	3055	1/1	1.00	0.02	20,20,20,20	0
32	MG	a	3753	1/1	1.00	0.04	73,73,73,73	0
32	MG	a	3754	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3755	1/1	1.00	0.06	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3756	1/1	1.00	0.03	64,64,64,64	0
32	MG	a	3757	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3758	1/1	1.00	0.03	76,76,76,76	0
32	MG	a	3759	1/1	1.00	0.07	74,74,74,74	0
32	MG	a	3760	1/1	1.00	0.02	77,77,77,77	0
32	MG	A	3473	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3762	1/1	1.00	0.02	84,84,84,84	0
32	MG	a	3763	1/1	1.00	0.04	70,70,70,70	0
32	MG	a	3764	1/1	1.00	0.03	42,42,42,42	0
32	MG	a	3765	1/1	1.00	0.04	69,69,69,69	0
32	MG	A	3474	1/1	1.00	0.06	67,67,67,67	0
32	MG	a	3767	1/1	1.00	0.04	68,68,68,68	0
32	MG	A	3475	1/1	1.00	0.06	76,76,76,76	0
32	MG	a	3769	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3476	1/1	1.00	0.01	66,66,66,66	0
32	MG	a	3771	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3772	1/1	1.00	0.02	92,92,92,92	0
32	MG	a	3773	1/1	1.00	0.03	75,75,75,75	0
32	MG	a	3774	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3775	1/1	1.00	0.02	89,89,89,89	0
32	MG	a	3776	1/1	1.00	0.01	79,79,79,79	0
32	MG	a	3777	1/1	1.00	0.03	62,62,62,62	0
32	MG	a	3778	1/1	1.00	0.02	68,68,68,68	0
32	MG	a	3779	1/1	1.00	0.02	71,71,71,71	0
32	MG	a	3780	1/1	1.00	0.04	72,72,72,72	0
32	MG	a	3781	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3782	1/1	1.00	0.02	67,67,67,67	0
32	MG	a	3783	1/1	1.00	0.02	57,57,57,57	0
32	MG	A	3477	1/1	1.00	0.02	78,78,78,78	0
32	MG	a	3785	1/1	1.00	0.03	64,64,64,64	0
32	MG	a	3786	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3787	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3788	1/1	1.00	0.03	62,62,62,62	0
32	MG	A	4068	1/1	1.00	0.01	24,24,24,24	0
32	MG	a	3790	1/1	1.00	0.02	63,63,63,63	0
32	MG	A	3478	1/1	1.00	0.03	66,66,66,66	0
32	MG	A	3479	1/1	1.00	0.03	84,84,84,84	0
32	MG	a	3793	1/1	1.00	0.02	67,67,67,67	0
32	MG	A	3056	1/1	1.00	0.01	11,11,11,11	0
32	MG	A	3481	1/1	1.00	0.03	72,72,72,72	0
32	MG	a	3796	1/1	1.00	0.02	73,73,73,73	0
32	MG	a	3797	1/1	1.00	0.04	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3798	1/1	1.00	0.03	70,70,70,70	0
32	MG	a	3799	1/1	1.00	0.03	72,72,72,72	0
32	MG	a	3800	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3801	1/1	1.00	0.02	44,44,44,44	0
32	MG	a	3802	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3803	1/1	1.00	0.02	53,53,53,53	0
32	MG	A	3057	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3058	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3484	1/1	1.00	0.04	80,80,80,80	0
32	MG	A	3485	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3486	1/1	1.00	0.04	73,73,73,73	0
32	MG	A	3487	1/1	1.00	0.02	83,83,83,83	0
32	MG	A	4079	1/1	1.00	0.04	29,29,29,29	0
32	MG	A	3488	1/1	1.00	0.03	75,75,75,75	0
32	MG	a	3812	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3059	1/1	1.00	0.02	36,36,36,36	0
32	MG	A	3490	1/1	1.00	0.05	71,71,71,71	0
32	MG	a	3815	1/1	1.00	0.02	16,16,16,16	0
32	MG	A	3491	1/1	1.00	0.01	66,66,66,66	0
32	MG	a	3817	1/1	1.00	0.02	19,19,19,19	0
32	MG	a	3818	1/1	1.00	0.01	10,10,10,10	0
32	MG	A	3492	1/1	1.00	0.05	69,69,69,69	0
32	MG	a	3820	1/1	1.00	0.04	4,4,4,4	0
32	MG	A	3060	1/1	1.00	0.03	35,35,35,35	0
32	MG	A	3494	1/1	1.00	0.03	58,58,58,58	0
32	MG	A	4087	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3495	1/1	1.00	0.01	91,91,91,91	0
32	MG	a	3825	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	3826	1/1	1.00	0.04	30,30,30,30	0
32	MG	A	3496	1/1	1.00	0.06	74,74,74,74	0
32	MG	a	3828	1/1	1.00	0.06	52,52,52,52	0
32	MG	A	3497	1/1	1.00	0.03	69,69,69,69	0
32	MG	A	3498	1/1	1.00	0.02	60,60,60,60	0
32	MG	A	3499	1/1	1.00	0.02	74,74,74,74	0
32	MG	a	3832	1/1	1.00	0.02	95,95,95,95	0
32	MG	A	3500	1/1	1.00	0.03	72,72,72,72	0
32	MG	a	3834	1/1	1.00	0.04	95,95,95,95	0
32	MG	A	3501	1/1	1.00	0.05	73,73,73,73	0
32	MG	A	3502	1/1	1.00	0.02	89,89,89,89	0
32	MG	A	3503	1/1	1.00	0.03	76,76,76,76	0
32	MG	a	3838	1/1	1.00	0.01	5,5,5,5	0
32	MG	a	3839	1/1	1.00	0.02	17,17,17,17	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3840	1/1	1.00	0.03	9,9,9,9	0
32	MG	A	3061	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	3842	1/1	1.00	0.05	2,2,2,2	0
32	MG	A	3505	1/1	1.00	0.03	93,93,93,93	0
32	MG	A	3062	1/1	1.00	0.02	48,48,48,48	0
32	MG	A	3009	1/1	1.00	0.02	18,18,18,18	0
32	MG	A	3508	1/1	1.00	0.02	68,68,68,68	0
32	MG	A	3509	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	4103	1/1	1.00	0.02	16,16,16,16	0
32	MG	A	3510	1/1	1.00	0.03	74,74,74,74	0
32	MG	a	3850	1/1	1.00	0.07	14,14,14,14	0
32	MG	A	3511	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3512	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3513	1/1	1.00	0.02	88,88,88,88	0
32	MG	A	3514	1/1	1.00	0.01	78,78,78,78	0
32	MG	A	4109	1/1	1.00	0.02	19,19,19,19	0
32	MG	A	3515	1/1	1.00	0.03	80,80,80,80	0
32	MG	a	3857	1/1	1.00	0.02	21,21,21,21	0
32	MG	A	3064	1/1	1.00	0.03	82,82,82,82	0
32	MG	A	3517	1/1	1.00	0.01	68,68,68,68	0
32	MG	A	3518	1/1	1.00	0.02	65,65,65,65	0
32	MG	a	3861	1/1	1.00	0.05	10,10,10,10	0
32	MG	A	3065	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	3863	1/1	1.00	0.03	1,1,1,1	0
32	MG	A	3520	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3521	1/1	1.00	0.02	77,77,77,77	0
32	MG	a	3866	1/1	1.00	0.04	18,18,18,18	0
32	MG	A	3522	1/1	1.00	0.01	62,62,62,62	0
32	MG	A	3523	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3524	1/1	1.00	0.01	73,73,73,73	0
32	MG	A	3525	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3526	1/1	1.00	0.01	58,58,58,58	0
32	MG	A	4122	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3527	1/1	1.00	0.04	61,61,61,61	0
32	MG	A	3066	1/1	1.00	0.04	20,20,20,20	0
32	MG	a	3875	1/1	1.00	0.02	43,43,43,43	0
32	MG	A	3529	1/1	1.00	0.02	102,102,102,102	0
32	MG	A	4126	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3530	1/1	1.00	0.01	65,65,65,65	0
32	MG	A	3531	1/1	1.00	0.01	61,61,61,61	0
32	MG	A	3532	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3067	1/1	1.00	0.02	5,5,5,5	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3534	1/1	1.00	0.01	58,58,58,58	0
32	MG	A	3535	1/1	1.00	0.03	71,71,71,71	0
32	MG	a	3884	1/1	1.00	0.07	14,14,14,14	0
32	MG	A	3068	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3537	1/1	1.00	0.02	88,88,88,88	0
32	MG	A	3538	1/1	1.00	0.03	90,90,90,90	0
32	MG	A	3069	1/1	1.00	0.02	38,38,38,38	0
32	MG	a	3889	1/1	1.00	0.02	6,6,6,6	0
32	MG	A	3540	1/1	1.00	0.02	63,63,63,63	0
32	MG	A	3541	1/1	1.00	0.03	73,73,73,73	0
32	MG	A	4139	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3001	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3071	1/1	1.00	0.02	22,22,22,22	0
32	MG	A	4142	1/1	1.00	0.01	27,27,27,27	0
32	MG	A	3544	1/1	1.00	0.02	82,82,82,82	0
32	MG	A	3545	1/1	1.00	0.03	52,52,52,52	0
32	MG	a	3898	1/1	1.00	0.03	7,7,7,7	0
32	MG	A	3546	1/1	1.00	0.04	70,70,70,70	0
32	MG	a	3900	1/1	1.00	0.04	12,12,12,12	0
32	MG	A	3072	1/1	1.00	0.01	56,56,56,56	0
32	MG	A	3548	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3073	1/1	1.00	0.01	39,39,39,39	0
32	MG	a	3904	1/1	1.00	0.03	39,39,39,39	0
32	MG	A	3550	1/1	1.00	0.05	62,62,62,62	0
32	MG	A	3551	1/1	1.00	0.04	76,76,76,76	0
32	MG	A	3552	1/1	1.00	0.02	74,74,74,74	0
32	MG	A	3553	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3554	1/1	1.00	0.03	65,65,65,65	0
32	MG	A	4154	1/1	1.00	0.01	15,15,15,15	0
32	MG	A	3555	1/1	1.00	0.03	76,76,76,76	0
32	MG	a	3912	1/1	1.00	0.01	32,32,32,32	0
32	MG	A	3556	1/1	1.00	0.01	64,64,64,64	0
32	MG	a	3914	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	3915	1/1	1.00	0.02	11,11,11,11	0
32	MG	a	3916	1/1	1.00	0.01	39,39,39,39	0
32	MG	A	3557	1/1	1.00	0.01	59,59,59,59	0
32	MG	A	3558	1/1	1.00	0.03	71,71,71,71	0
32	MG	a	3919	1/1	1.00	0.03	46,46,46,46	0
32	MG	a	3920	1/1	1.00	0.03	28,28,28,28	0
32	MG	A	3559	1/1	1.00	0.05	64,64,64,64	0
32	MG	A	3560	1/1	1.00	0.02	74,74,74,74	0
32	MG	A	4161	1/1	1.00	0.03	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4162	1/1	1.00	0.01	27,27,27,27	0
32	MG	a	3925	1/1	1.00	0.08	11,11,11,11	0
32	MG	A	3561	1/1	1.00	0.01	49,49,49,49	0
32	MG	A	3074	1/1	1.00	0.02	37,37,37,37	0
32	MG	A	3563	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3564	1/1	1.00	0.01	69,69,69,69	0
32	MG	a	3930	1/1	1.00	0.03	15,15,15,15	0
32	MG	A	3565	1/1	1.00	0.01	62,62,62,62	0
32	MG	A	3566	1/1	1.00	0.04	71,71,71,71	0
32	MG	A	3567	1/1	1.00	0.01	56,56,56,56	0
32	MG	A	3568	1/1	1.00	0.02	74,74,74,74	0
32	MG	A	3569	1/1	1.00	0.02	92,92,92,92	0
32	MG	A	3570	1/1	1.00	0.04	58,58,58,58	0
32	MG	A	3571	1/1	1.00	0.03	71,71,71,71	0
32	MG	A	3572	1/1	1.00	0.02	67,67,67,67	0
32	MG	A	3573	1/1	1.00	0.03	74,74,74,74	0
32	MG	A	3075	1/1	1.00	0.01	32,32,32,32	0
32	MG	A	3575	1/1	1.00	0.01	67,67,67,67	0
32	MG	a	3942	1/1	1.00	0.02	14,14,14,14	0
32	MG	A	3576	1/1	1.00	0.03	69,69,69,69	0
32	MG	A	3076	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3578	1/1	1.00	0.03	64,64,64,64	0
32	MG	a	3946	1/1	1.00	0.07	0,0,0,0	0
32	MG	A	3077	1/1	1.00	0.03	18,18,18,18	0
32	MG	a	3948	1/1	1.00	0.02	7,7,7,7	0
32	MG	A	3580	1/1	1.00	0.03	54,54,54,54	0
32	MG	A	3011	1/1	1.00	0.01	34,34,34,34	0
32	MG	A	3079	1/1	1.00	0.01	50,50,50,50	0
32	MG	A	3080	1/1	1.00	0.04	70,70,70,70	0
32	MG	A	3584	1/1	1.00	0.02	64,64,64,64	0
32	MG	A	3585	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	4188	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	4189	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3586	1/1	1.00	0.01	57,57,57,57	0
32	MG	a	3958	1/1	1.00	0.02	3,3,3,3	0
32	MG	A	4191	1/1	1.00	0.04	26,26,26,26	0
32	MG	A	3587	1/1	1.00	0.01	75,75,75,75	0
32	MG	A	3588	1/1	1.00	0.04	56,56,56,56	0
32	MG	A	3589	1/1	1.00	0.01	57,57,57,57	0
32	MG	A	3590	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3591	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3592	1/1	1.00	0.02	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3593	1/1	1.00	0.04	55,55,55,55	0
32	MG	A	3594	1/1	1.00	0.02	55,55,55,55	0
32	MG	A	3595	1/1	1.00	0.01	55,55,55,55	0
32	MG	A	3596	1/1	1.00	0.01	54,54,54,54	0
32	MG	A	3597	1/1	1.00	0.02	55,55,55,55	0
32	MG	A	3598	1/1	1.00	0.01	55,55,55,55	0
32	MG	A	4204	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3599	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3081	1/1	1.00	0.03	13,13,13,13	0
32	MG	A	3082	1/1	1.00	0.01	62,62,62,62	0
32	MG	A	4208	1/1	1.00	0.03	25,25,25,25	0
32	MG	A	3083	1/1	1.00	0.01	19,19,19,19	0
32	MG	A	3084	1/1	1.00	0.01	31,31,31,31	0
32	MG	A	3085	1/1	1.00	0.02	32,32,32,32	0
32	MG	A	4212	1/1	1.00	0.02	32,32,32,32	0
32	MG	A	4213	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3086	1/1	1.00	0.02	65,65,65,65	0
32	MG	A	3087	1/1	1.00	0.03	42,42,42,42	0
32	MG	A	3088	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3985	1/1	1.00	0.03	29,29,29,29	0
32	MG	A	4217	1/1	1.00	0.04	27,27,27,27	0
32	MG	A	3089	1/1	1.00	0.02	73,73,73,73	0
32	MG	A	3090	1/1	1.00	0.01	103,103,103,103	0
32	MG	a	3989	1/1	1.00	0.04	14,14,14,14	0
32	MG	A	3091	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3611	1/1	1.00	0.04	0,0,0,0	0
32	MG	A	3092	1/1	1.00	0.01	24,24,24,24	0
32	MG	A	3093	1/1	1.00	0.01	41,41,41,41	0
32	MG	A	3094	1/1	1.00	0.01	3,3,3,3	0
32	MG	a	3995	1/1	1.00	0.04	22,22,22,22	0
32	MG	A	3615	1/1	1.00	0.06	9,9,9,9	0
32	MG	A	3616	1/1	1.00	0.04	1,1,1,1	0
32	MG	A	4227	1/1	1.00	0.01	25,25,25,25	0
32	MG	A	3617	1/1	1.00	0.04	37,37,37,37	0
32	MG	A	4229	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3095	1/1	1.00	0.01	27,27,27,27	0
32	MG	A	3096	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3097	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	4004	1/1	1.00	0.01	13,13,13,13	0
32	MG	A	3098	1/1	1.00	0.02	37,37,37,37	0
32	MG	a	4006	1/1	1.00	0.03	27,27,27,27	0
32	MG	A	3099	1/1	1.00	0.02	15,15,15,15	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3100	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3101	1/1	1.00	0.01	42,42,42,42	0
32	MG	a	4010	1/1	1.00	0.02	11,11,11,11	0
32	MG	A	3102	1/1	1.00	0.03	42,42,42,42	0
32	MG	a	4012	1/1	1.00	0.04	0,0,0,0	0
32	MG	A	3626	1/1	1.00	0.02	11,11,11,11	0
32	MG	A	3103	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3104	1/1	1.00	0.02	79,79,79,79	0
32	MG	A	3105	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	4017	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3106	1/1	1.00	0.06	38,38,38,38	0
32	MG	A	4243	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3107	1/1	1.00	0.01	40,40,40,40	0
32	MG	A	3108	1/1	1.00	0.04	45,45,45,45	0
32	MG	A	3109	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	3110	1/1	1.00	0.01	30,30,30,30	0
32	MG	A	3111	1/1	1.00	0.03	49,49,49,49	0
32	MG	A	3112	1/1	1.00	0.03	50,50,50,50	0
32	MG	A	3113	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3114	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3115	1/1	1.00	0.02	53,53,53,53	0
32	MG	A	3640	1/1	1.00	0.02	17,17,17,17	0
32	MG	A	3116	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	4031	1/1	1.00	0.01	2,2,2,2	0
32	MG	A	3117	1/1	1.00	0.05	33,33,33,33	0
32	MG	A	3118	1/1	1.00	0.02	38,38,38,38	0
32	MG	A	3119	1/1	1.00	0.01	27,27,27,27	0
32	MG	a	4035	1/1	1.00	0.03	37,37,37,37	0
32	MG	a	4036	1/1	1.00	0.02	13,13,13,13	0
32	MG	A	3120	1/1	1.00	0.01	49,49,49,49	0
32	MG	a	4038	1/1	1.00	0.04	5,5,5,5	0
32	MG	A	4259	1/1	1.00	0.04	23,23,23,23	0
32	MG	A	3121	1/1	1.00	0.01	14,14,14,14	0
32	MG	A	3122	1/1	1.00	0.08	21,21,21,21	0
32	MG	A	3123	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3649	1/1	1.00	0.01	0,0,0,0	0
32	MG	A	3650	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3651	1/1	1.00	0.02	15,15,15,15	0
32	MG	a	4046	1/1	1.00	0.01	44,44,44,44	0
32	MG	A	3124	1/1	1.00	0.01	11,11,11,11	0
32	MG	A	3125	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3126	1/1	1.00	0.03	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3655	1/1	1.00	0.01	4,4,4,4	0
32	MG	A	3127	1/1	1.00	0.02	35,35,35,35	0
32	MG	A	3657	1/1	1.00	0.06	8,8,8,8	0
32	MG	A	3128	1/1	1.00	0.01	49,49,49,49	0
32	MG	A	3129	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3130	1/1	1.00	0.02	121,121,121,121	0
32	MG	A	3131	1/1	1.00	0.01	33,33,33,33	0
32	MG	a	4057	1/1	1.00	0.02	9,9,9,9	0
32	MG	A	3132	1/1	1.00	0.01	50,50,50,50	0
32	MG	A	3133	1/1	1.00	0.01	10,10,10,10	0
32	MG	A	3134	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3135	1/1	1.00	0.02	43,43,43,43	0
32	MG	a	4062	1/1	1.00	0.02	7,7,7,7	0
32	MG	a	4063	1/1	1.00	0.05	95,95,95,95	0
32	MG	A	3136	1/1	1.00	0.03	24,24,24,24	0
32	MG	A	3667	1/1	1.00	0.02	12,12,12,12	0
32	MG	A	4282	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3137	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3138	1/1	1.00	0.03	71,71,71,71	0
32	MG	A	3139	1/1	1.00	0.01	45,45,45,45	0
32	MG	A	3140	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	4287	1/1	1.00	0.07	33,33,33,33	0
32	MG	A	3141	1/1	1.00	0.01	71,71,71,71	0
32	MG	A	4289	1/1	1.00	0.03	25,25,25,25	0
32	MG	a	4074	1/1	1.00	0.03	44,44,44,44	0
32	MG	A	3142	1/1	1.00	0.03	26,26,26,26	0
32	MG	a	4076	1/1	1.00	0.07	95,95,95,95	0
32	MG	A	3674	1/1	1.00	0.06	22,22,22,22	0
32	MG	A	3143	1/1	1.00	0.03	49,49,49,49	0
32	MG	a	4079	1/1	1.00	0.02	9,9,9,9	0
32	MG	A	3144	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3145	1/1	1.00	0.04	28,28,28,28	0
32	MG	A	3678	1/1	1.00	0.03	1,1,1,1	0
32	MG	A	3146	1/1	1.00	0.01	20,20,20,20	0
32	MG	A	3680	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3147	1/1	1.00	0.01	30,30,30,30	0
32	MG	A	3148	1/1	1.00	0.01	35,35,35,35	0
32	MG	A	3149	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3150	1/1	1.00	0.02	38,38,38,38	0
32	MG	a	4089	1/1	1.00	0.04	38,38,38,38	0
32	MG	A	3151	1/1	1.00	0.02	42,42,42,42	0
32	MG	A	3012	1/1	1.00	0.02	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3153	1/1	1.00	0.01	21,21,21,21	0
32	MG	A	3154	1/1	1.00	0.01	37,37,37,37	0
32	MG	a	4094	1/1	1.00	0.03	10,10,10,10	0
32	MG	A	3155	1/1	1.00	0.02	34,34,34,34	0
32	MG	A	3156	1/1	1.00	0.02	36,36,36,36	0
32	MG	A	3157	1/1	1.00	0.03	53,53,53,53	0
32	MG	A	3692	1/1	1.00	0.04	95,95,95,95	0
32	MG	a	4099	1/1	1.00	0.03	66,66,66,66	0
32	MG	a	4100	1/1	1.00	0.02	4,4,4,4	0
32	MG	A	3158	1/1	1.00	0.03	49,49,49,49	0
32	MG	a	4102	1/1	1.00	0.03	2,2,2,2	0
32	MG	A	3159	1/1	1.00	0.02	38,38,38,38	0
32	MG	A	3160	1/1	1.00	0.05	42,42,42,42	0
32	MG	a	4105	1/1	1.00	0.05	3,3,3,3	0
32	MG	a	4106	1/1	1.00	0.01	1,1,1,1	0
32	MG	A	3161	1/1	1.00	0.01	25,25,25,25	0
32	MG	A	3013	1/1	1.00	0.01	15,15,15,15	0
32	MG	A	3163	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3164	1/1	1.00	0.02	43,43,43,43	0
32	MG	A	4317	1/1	1.00	0.04	23,23,23,23	0
32	MG	a	4112	1/1	1.00	0.01	1,1,1,1	0
32	MG	a	4113	1/1	1.00	0.01	35,35,35,35	0
32	MG	A	3700	1/1	1.00	0.02	12,12,12,12	0
32	MG	A	3165	1/1	1.00	0.01	20,20,20,20	0
32	MG	A	4320	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3166	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	4118	1/1	1.00	0.01	0,0,0,0	0
32	MG	A	3167	1/1	1.00	0.01	15,15,15,15	0
32	MG	A	3168	1/1	1.00	0.01	24,24,24,24	0
32	MG	A	3169	1/1	1.00	0.04	39,39,39,39	0
32	MG	A	3170	1/1	1.00	0.01	42,42,42,42	0
32	MG	A	3171	1/1	1.00	0.04	41,41,41,41	0
32	MG	a	4124	1/1	1.00	0.06	36,36,36,36	0
32	MG	A	3172	1/1	1.00	0.02	77,77,77,77	0
32	MG	A	3173	1/1	1.00	0.03	25,25,25,25	0
32	MG	a	4127	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3174	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3175	1/1	1.00	0.02	37,37,37,37	0
32	MG	A	3712	1/1	1.00	0.03	7,7,7,7	0
32	MG	A	3176	1/1	1.00	0.01	30,30,30,30	0
32	MG	A	3177	1/1	1.00	0.01	32,32,32,32	0
32	MG	a	4133	1/1	1.00	0.01	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3715	1/1	1.00	0.03	14,14,14,14	0
32	MG	A	3716	1/1	1.00	0.02	30,30,30,30	0
32	MG	A	3178	1/1	1.00	0.02	29,29,29,29	0
32	MG	A	3179	1/1	1.00	0.01	21,21,21,21	0
32	MG	A	3719	1/1	1.00	0.02	30,30,30,30	0
32	MG	A	4339	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3014	1/1	1.00	0.03	18,18,18,18	0
32	MG	A	3181	1/1	1.00	0.01	38,38,38,38	0
32	MG	A	3182	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3183	1/1	1.00	0.01	56,56,56,56	0
32	MG	a	4144	1/1	1.00	0.01	22,22,22,22	0
32	MG	A	3724	1/1	1.00	0.04	19,19,19,19	0
32	MG	A	3184	1/1	1.00	0.01	124,124,124,124	0
32	MG	A	3185	1/1	1.00	0.02	109,109,109,109	0
32	MG	A	3186	1/1	1.00	0.02	51,51,51,51	0
32	MG	A	3187	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3729	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3188	1/1	1.00	0.01	28,28,28,28	0
32	MG	a	4152	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3189	1/1	1.00	0.01	31,31,31,31	0
32	MG	A	3190	1/1	1.00	0.02	34,34,34,34	0
32	MG	A	3191	1/1	1.00	0.03	40,40,40,40	0
32	MG	a	4156	1/1	1.00	0.03	95,95,95,95	0
32	MG	A	3192	1/1	1.00	0.02	97,97,97,97	0
32	MG	A	3193	1/1	1.00	0.01	73,73,73,73	0
32	MG	A	3194	1/1	1.00	0.03	33,33,33,33	0
32	MG	a	4160	1/1	1.00	0.02	10,10,10,10	0
32	MG	A	3195	1/1	1.00	0.01	56,56,56,56	0
32	MG	A	3196	1/1	1.00	0.05	27,27,27,27	0
32	MG	A	3197	1/1	1.00	0.04	23,23,23,23	0
32	MG	A	3002	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	4165	1/1	1.00	0.04	6,6,6,6	0
32	MG	A	3741	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3199	1/1	1.00	0.02	26,26,26,26	0
32	MG	A	3200	1/1	1.00	0.00	25,25,25,25	0
32	MG	A	4364	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3201	1/1	1.00	0.02	63,63,63,63	0
32	MG	A	3202	1/1	1.00	0.01	15,15,15,15	0
32	MG	a	4172	1/1	1.00	0.02	4,4,4,4	0
32	MG	A	3203	1/1	1.00	0.03	28,28,28,28	0
32	MG	A	3204	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3205	1/1	1.00	0.02	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	4370	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3206	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3207	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3208	1/1	1.00	0.03	51,51,51,51	0
32	MG	A	3752	1/1	1.00	0.04	8,8,8,8	0
32	MG	a	4181	1/1	1.00	0.03	2,2,2,2	0
32	MG	a	4182	1/1	1.00	0.01	5,5,5,5	0
32	MG	A	3209	1/1	1.00	0.01	38,38,38,38	0
32	MG	a	4184	1/1	1.00	0.02	0,0,0,0	0
32	MG	A	3210	1/1	1.00	0.02	32,32,32,32	0
32	MG	A	3211	1/1	1.00	0.03	39,39,39,39	0
32	MG	A	3212	1/1	1.00	0.02	20,20,20,20	0
32	MG	A	3213	1/1	1.00	0.01	42,42,42,42	0
32	MG	a	4189	1/1	1.00	0.01	0,0,0,0	0
32	MG	A	3214	1/1	1.00	0.02	26,26,26,26	0
32	MG	A	3215	1/1	1.00	0.01	17,17,17,17	0
32	MG	A	3760	1/1	1.00	0.01	14,14,14,14	0
32	MG	B	201	1/1	1.00	0.04	51,51,51,51	0
32	MG	a	4194	1/1	1.00	0.03	48,48,48,48	0
32	MG	B	202	1/1	1.00	0.01	37,37,37,37	0
32	MG	B	203	1/1	1.00	0.01	49,49,49,49	0
32	MG	B	204	1/1	1.00	0.02	48,48,48,48	0
32	MG	B	205	1/1	1.00	0.02	54,54,54,54	0
32	MG	B	206	1/1	1.00	0.03	44,44,44,44	0
32	MG	a	4200	1/1	1.00	0.02	8,8,8,8	0
32	MG	B	207	1/1	1.00	0.01	62,62,62,62	0
32	MG	a	4202	1/1	1.00	0.04	16,16,16,16	0
32	MG	B	208	1/1	1.00	0.06	74,74,74,74	0
32	MG	B	209	1/1	1.00	0.02	61,61,61,61	0
32	MG	B	210	1/1	1.00	0.03	65,65,65,65	0
32	MG	B	211	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3216	1/1	1.00	0.02	56,56,56,56	0
32	MG	B	213	1/1	1.00	0.04	75,75,75,75	0
32	MG	a	4209	1/1	1.00	0.01	0,0,0,0	0
32	MG	a	4210	1/1	1.00	0.04	25,25,25,25	0
32	MG	B	214	1/1	1.00	0.01	63,63,63,63	0
32	MG	a	4212	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	4213	1/1	1.00	0.04	10,10,10,10	0
32	MG	B	215	1/1	1.00	0.01	78,78,78,78	0
32	MG	B	216	1/1	1.00	0.03	66,66,66,66	0
32	MG	B	217	1/1	1.00	0.02	56,56,56,56	0
32	MG	B	218	1/1	1.00	0.02	86,86,86,86	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	B	219	1/1	1.00	0.02	66,66,66,66	0
32	MG	B	220	1/1	1.00	0.04	73,73,73,73	0
32	MG	a	4220	1/1	1.00	0.02	7,7,7,7	0
32	MG	A	3217	1/1	1.00	0.05	23,23,23,23	0
32	MG	B	222	1/1	1.00	0.02	41,41,41,41	0
32	MG	B	223	1/1	1.00	0.03	69,69,69,69	0
32	MG	A	3218	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3764	1/1	1.00	0.01	16,16,16,16	0
32	MG	A	3219	1/1	1.00	0.03	42,42,42,42	0
32	MG	A	3220	1/1	1.00	0.01	34,34,34,34	0
32	MG	A	3221	1/1	1.00	0.03	40,40,40,40	0
32	MG	a	4229	1/1	1.00	0.01	1,1,1,1	0
32	MG	A	3222	1/1	1.00	0.03	40,40,40,40	0
32	MG	A	3223	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3224	1/1	1.00	0.01	39,39,39,39	0
32	MG	A	3016	1/1	1.00	0.01	58,58,58,58	0
32	MG	A	3226	1/1	1.00	0.02	53,53,53,53	0
32	MG	A	3227	1/1	1.00	0.01	51,51,51,51	0
32	MG	A	3774	1/1	1.00	0.01	22,22,22,22	0
32	MG	A	3228	1/1	1.00	0.01	65,65,65,65	0
32	MG	A	3229	1/1	1.00	0.02	46,46,46,46	0
32	MG	C	301	1/1	1.00	0.01	27,27,27,27	0
32	MG	a	4240	1/1	1.00	0.06	1,1,1,1	0
32	MG	C	302	1/1	1.00	0.01	46,46,46,46	0
32	MG	C	303	1/1	1.00	0.01	26,26,26,26	0
32	MG	C	304	1/1	1.00	0.02	29,29,29,29	0
32	MG	C	305	1/1	1.00	0.01	19,19,19,19	0
32	MG	C	306	1/1	1.00	0.01	45,45,45,45	0
32	MG	C	307	1/1	1.00	0.04	39,39,39,39	0
32	MG	C	308	1/1	1.00	0.04	36,36,36,36	0
32	MG	a	4248	1/1	1.00	0.02	1,1,1,1	0
32	MG	a	4249	1/1	1.00	0.03	95,95,95,95	0
32	MG	C	309	1/1	1.00	0.03	51,51,51,51	0
32	MG	C	310	1/1	1.00	0.04	59,59,59,59	0
32	MG	C	311	1/1	1.00	0.01	46,46,46,46	0
32	MG	C	312	1/1	1.00	0.04	59,59,59,59	0
32	MG	C	313	1/1	1.00	0.01	66,66,66,66	0
32	MG	C	314	1/1	1.00	0.02	76,76,76,76	0
32	MG	a	4256	1/1	1.00	0.02	6,6,6,6	0
32	MG	C	315	1/1	1.00	0.07	78,78,78,78	0
32	MG	A	3230	1/1	1.00	0.03	42,42,42,42	0
32	MG	A	3017	1/1	1.00	0.03	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3232	1/1	1.00	0.07	59,59,59,59	0
32	MG	A	3780	1/1	1.00	0.02	95,95,95,95	0
32	MG	A	3233	1/1	1.00	0.01	43,43,43,43	0
32	MG	C	321	1/1	1.00	0.03	16,16,16,16	0
32	MG	A	3782	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3018	1/1	1.00	0.01	60,60,60,60	0
32	MG	A	3235	1/1	1.00	0.05	35,35,35,35	0
32	MG	A	3236	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3237	1/1	1.00	0.02	85,85,85,85	0
32	MG	A	3019	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3239	1/1	1.00	0.02	53,53,53,53	0
32	MG	a	4271	1/1	1.00	0.01	22,22,22,22	0
32	MG	A	3020	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3241	1/1	1.00	0.02	44,44,44,44	0
32	MG	C	331	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3242	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3243	1/1	1.00	0.06	55,55,55,55	0
32	MG	A	3244	1/1	1.00	0.05	59,59,59,59	0
32	MG	A	3245	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	4279	1/1	1.00	0.02	22,22,22,22	0
32	MG	A	3021	1/1	1.00	0.02	43,43,43,43	0
32	MG	A	3022	1/1	1.00	0.02	66,66,66,66	0
32	MG	A	3797	1/1	1.00	0.03	22,22,22,22	0
32	MG	A	3023	1/1	1.00	0.01	74,74,74,74	0
32	MG	C	340	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3799	1/1	1.00	0.02	1,1,1,1	0
32	MG	A	3249	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3250	1/1	1.00	0.03	65,65,65,65	0
32	MG	A	3802	1/1	1.00	0.02	27,27,27,27	0
32	MG	D	301	1/1	1.00	0.01	48,48,48,48	0
32	MG	D	302	1/1	1.00	0.01	34,34,34,34	0
32	MG	D	303	1/1	1.00	0.03	39,39,39,39	0
32	MG	a	4292	1/1	1.00	0.02	33,33,33,33	0
32	MG	D	304	1/1	1.00	0.01	60,60,60,60	0
32	MG	D	305	1/1	1.00	0.01	50,50,50,50	0
32	MG	A	3251	1/1	1.00	0.02	46,46,46,46	0
32	MG	A	3024	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3253	1/1	1.00	0.05	55,55,55,55	0
32	MG	E	301	1/1	1.00	0.03	37,37,37,37	0
32	MG	E	302	1/1	1.00	0.01	15,15,15,15	0
32	MG	E	303	1/1	1.00	0.02	89,89,89,89	0
32	MG	E	304	1/1	1.00	0.02	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	E	305	1/1	1.00	0.02	86,86,86,86	0
32	MG	E	306	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	4304	1/1	1.00	0.04	22,22,22,22	0
32	MG	E	307	1/1	1.00	0.02	57,57,57,57	0
32	MG	E	308	1/1	1.00	0.02	77,77,77,77	0
32	MG	E	309	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	4308	1/1	1.00	0.02	32,32,32,32	0
32	MG	E	310	1/1	1.00	0.05	62,62,62,62	0
32	MG	A	3254	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3255	1/1	1.00	0.03	60,60,60,60	0
32	MG	A	3256	1/1	1.00	0.03	53,53,53,53	0
32	MG	A	3257	1/1	1.00	0.04	52,52,52,52	0
32	MG	A	3258	1/1	1.00	0.02	58,58,58,58	0
32	MG	A	3259	1/1	1.00	0.03	48,48,48,48	0
32	MG	A	3025	1/1	1.00	0.02	18,18,18,18	0
32	MG	A	3026	1/1	1.00	0.04	35,35,35,35	0
32	MG	A	3262	1/1	1.00	0.03	53,53,53,53	0
32	MG	A	3263	1/1	1.00	0.03	22,22,22,22	0
32	MG	A	3027	1/1	1.00	0.03	49,49,49,49	0
32	MG	E	322	1/1	1.00	0.01	15,15,15,15	0
32	MG	a	4322	1/1	1.00	0.06	22,22,22,22	0
32	MG	A	3028	1/1	1.00	0.01	22,22,22,22	0
32	MG	A	3818	1/1	1.00	0.03	19,19,19,19	0
32	MG	A	3266	1/1	1.00	0.04	47,47,47,47	0
32	MG	A	3267	1/1	1.00	0.02	89,89,89,89	0
32	MG	A	3268	1/1	1.00	0.06	84,84,84,84	0
32	MG	A	3269	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3270	1/1	1.00	0.02	78,78,78,78	0
32	MG	E	330	1/1	1.00	0.04	31,31,31,31	0
32	MG	a	4331	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	4332	1/1	1.00	0.01	27,27,27,27	0
32	MG	F	201	1/1	1.00	0.02	76,76,76,76	0
32	MG	F	202	1/1	1.00	0.02	71,71,71,71	0
32	MG	F	203	1/1	1.00	0.02	57,57,57,57	0
32	MG	A	3271	1/1	1.00	0.01	35,35,35,35	0
32	MG	A	3272	1/1	1.00	0.01	49,49,49,49	0
32	MG	A	3273	1/1	1.00	0.04	51,51,51,51	0
32	MG	A	3274	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3275	1/1	1.00	0.02	82,82,82,82	0
32	MG	H	203	1/1	1.00	0.01	33,33,33,33	0
32	MG	a	4342	1/1	1.00	0.06	24,24,24,24	0
32	MG	a	4343	1/1	1.00	0.02	13,13,13,13	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	H	204	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3276	1/1	1.00	0.03	42,42,42,42	0
32	MG	A	3277	1/1	1.00	0.02	34,34,34,34	0
32	MG	A	3278	1/1	1.00	0.02	40,40,40,40	0
32	MG	A	3279	1/1	1.00	0.02	54,54,54,54	0
32	MG	I	201	1/1	1.00	0.04	56,56,56,56	0
32	MG	I	202	1/1	1.00	0.01	37,37,37,37	0
32	MG	I	203	1/1	1.00	0.03	54,54,54,54	0
32	MG	I	204	1/1	1.00	0.01	32,32,32,32	0
32	MG	I	205	1/1	1.00	0.02	75,75,75,75	0
32	MG	I	206	1/1	1.00	0.02	60,60,60,60	0
32	MG	I	207	1/1	1.00	0.04	71,71,71,71	0
32	MG	I	208	1/1	1.00	0.03	49,49,49,49	0
32	MG	A	3833	1/1	1.00	0.03	4,4,4,4	0
32	MG	a	4358	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3029	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3030	1/1	1.00	0.01	35,35,35,35	0
32	MG	a	4361	1/1	1.00	0.01	17,17,17,17	0
32	MG	I	212	1/1	1.00	0.02	0,0,0,0	0
32	MG	a	4363	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3282	1/1	1.00	0.02	37,37,37,37	0
32	MG	J	202	1/1	1.00	0.01	51,51,51,51	0
32	MG	A	3283	1/1	1.00	0.04	48,48,48,48	0
32	MG	A	3284	1/1	1.00	0.04	45,45,45,45	0
32	MG	A	3839	1/1	1.00	0.03	32,32,32,32	0
32	MG	A	3285	1/1	1.00	0.01	41,41,41,41	0
32	MG	A	3286	1/1	1.00	0.04	55,55,55,55	0
32	MG	A	3287	1/1	1.00	0.02	51,51,51,51	0
32	MG	A	3843	1/1	1.00	0.04	95,95,95,95	0
32	MG	K	201	1/1	1.00	0.01	6,6,6,6	0
32	MG	K	202	1/1	1.00	0.03	21,21,21,21	0
32	MG	K	203	1/1	1.00	0.01	0,0,0,0	0
32	MG	a	4376	1/1	1.00	0.02	24,24,24,24	0
32	MG	K	204	1/1	1.00	0.01	46,46,46,46	0
32	MG	K	205	1/1	1.00	0.02	84,84,84,84	0
32	MG	K	206	1/1	1.00	0.01	48,48,48,48	0
32	MG	A	3288	1/1	1.00	0.04	61,61,61,61	0
32	MG	A	3289	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3290	1/1	1.00	0.03	60,60,60,60	0
32	MG	A	3291	1/1	1.00	0.04	28,28,28,28	0
32	MG	a	4384	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	4385	1/1	1.00	0.01	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3292	1/1	1.00	0.02	87,87,87,87	0
32	MG	K	212	1/1	1.00	0.01	7,7,7,7	0
32	MG	A	3293	1/1	1.00	0.01	43,43,43,43	0
32	MG	A	3003	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	4390	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3851	1/1	1.00	0.06	95,95,95,95	0
32	MG	K	216	1/1	1.00	0.09	27,27,27,27	0
32	MG	A	3295	1/1	1.00	0.03	55,55,55,55	0
32	MG	K	218	1/1	1.00	0.03	23,23,23,23	0
32	MG	K	219	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3296	1/1	1.00	0.04	66,66,66,66	0
32	MG	A	3297	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3298	1/1	1.00	0.03	80,80,80,80	0
32	MG	L	201	1/1	1.00	0.01	16,16,16,16	0
32	MG	L	202	1/1	1.00	0.01	35,35,35,35	0
32	MG	L	203	1/1	1.00	0.02	26,26,26,26	0
32	MG	L	204	1/1	1.00	0.03	53,53,53,53	0
32	MG	A	3299	1/1	1.00	0.02	36,36,36,36	0
32	MG	L	206	1/1	1.00	0.05	95,95,95,95	0
32	MG	A	3857	1/1	1.00	0.03	5,5,5,5	0
32	MG	A	3858	1/1	1.00	0.03	1,1,1,1	0
32	MG	A	3032	1/1	1.00	0.03	79,79,79,79	0
32	MG	M	201	1/1	1.00	0.02	41,41,41,41	0
32	MG	M	202	1/1	1.00	0.02	71,71,71,71	0
32	MG	a	4410	1/1	1.00	0.03	30,30,30,30	0
32	MG	a	4411	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3860	1/1	1.00	0.04	17,17,17,17	0
32	MG	A	3033	1/1	1.00	0.02	39,39,39,39	0
32	MG	O	201	1/1	1.00	0.02	63,63,63,63	0
32	MG	O	202	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3302	1/1	1.00	0.01	44,44,44,44	0
32	MG	A	3863	1/1	1.00	0.05	95,95,95,95	0
32	MG	A	3303	1/1	1.00	0.02	84,84,84,84	0
32	MG	O	206	1/1	1.00	0.02	3,3,3,3	0
32	MG	O	207	1/1	1.00	0.02	2,2,2,2	0
32	MG	A	3304	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3034	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3306	1/1	1.00	0.04	34,34,34,34	0
32	MG	P	201	1/1	1.00	0.01	36,36,36,36	0
32	MG	a	4425	1/1	1.00	0.03	27,27,27,27	0
32	MG	P	202	1/1	1.00	0.03	54,54,54,54	0
32	MG	P	203	1/1	1.00	0.02	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3307	1/1	1.00	0.03	44,44,44,44	0
32	MG	a	4429	1/1	1.00	0.04	30,30,30,30	0
32	MG	A	3869	1/1	1.00	0.03	35,35,35,35	0
32	MG	A	3308	1/1	1.00	0.04	65,65,65,65	0
32	MG	a	4432	1/1	1.00	0.01	26,26,26,26	0
32	MG	a	4433	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3309	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3310	1/1	1.00	0.01	54,54,54,54	0
32	MG	A	3311	1/1	1.00	0.02	43,43,43,43	0
32	MG	A	3312	1/1	1.00	0.03	49,49,49,49	0
32	MG	A	3875	1/1	1.00	0.02	17,17,17,17	0
32	MG	a	4439	1/1	1.00	0.03	29,29,29,29	0
32	MG	a	4440	1/1	1.00	0.03	23,23,23,23	0
32	MG	A	3313	1/1	1.00	0.01	78,78,78,78	0
32	MG	a	4442	1/1	1.00	0.03	30,30,30,30	0
32	MG	Q	206	1/1	1.00	0.01	31,31,31,31	0
32	MG	A	3314	1/1	1.00	0.03	64,64,64,64	0
32	MG	A	3878	1/1	1.00	0.01	20,20,20,20	0
32	MG	A	3879	1/1	1.00	0.05	95,95,95,95	0
32	MG	A	3315	1/1	1.00	0.01	52,52,52,52	0
32	MG	R	201	1/1	1.00	0.02	68,68,68,68	0
32	MG	R	202	1/1	1.00	0.02	59,59,59,59	0
32	MG	R	203	1/1	1.00	0.02	63,63,63,63	0
32	MG	R	204	1/1	1.00	0.02	71,71,71,71	0
32	MG	R	205	1/1	1.00	0.01	69,69,69,69	0
32	MG	A	3035	1/1	1.00	0.03	37,37,37,37	0
32	MG	A	3317	1/1	1.00	0.02	76,76,76,76	0
32	MG	A	3883	1/1	1.00	0.03	18,18,18,18	0
32	MG	A	3036	1/1	1.00	0.02	31,31,31,31	0
32	MG	a	4457	1/1	1.00	0.02	14,14,14,14	0
32	MG	A	3319	1/1	1.00	0.04	74,74,74,74	0
32	MG	A	3037	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3887	1/1	1.00	0.03	24,24,24,24	0
32	MG	A	3321	1/1	1.00	0.02	43,43,43,43	0
32	MG	A	3322	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3890	1/1	1.00	0.02	47,47,47,47	0
32	MG	A	3038	1/1	1.00	0.01	59,59,59,59	0
32	MG	R	217	1/1	1.00	0.01	24,24,24,24	0
32	MG	a	4466	1/1	1.00	0.05	35,35,35,35	0
32	MG	A	3892	1/1	1.00	0.04	95,95,95,95	0
32	MG	A	3324	1/1	1.00	0.02	56,56,56,56	0
32	MG	S	101	1/1	1.00	0.02	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	S	102	1/1	1.00	0.01	27,27,27,27	0
32	MG	S	103	1/1	1.00	0.01	77,77,77,77	0
32	MG	a	4472	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	4473	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3325	1/1	1.00	0.03	78,78,78,78	0
32	MG	S	105	1/1	1.00	0.01	1,1,1,1	0
32	MG	A	3326	1/1	1.00	0.02	39,39,39,39	0
32	MG	A	3327	1/1	1.00	0.03	70,70,70,70	0
32	MG	A	3328	1/1	1.00	0.03	53,53,53,53	0
32	MG	a	4479	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	4480	1/1	1.00	0.03	30,30,30,30	0
32	MG	A	3329	1/1	1.00	0.02	82,82,82,82	0
32	MG	T	502	1/1	1.00	0.02	60,60,60,60	0
32	MG	T	503	1/1	1.00	0.01	70,70,70,70	0
32	MG	T	504	1/1	1.00	0.03	69,69,69,69	0
32	MG	T	505	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3330	1/1	1.00	0.02	60,60,60,60	0
32	MG	A	3331	1/1	1.00	0.02	57,57,57,57	0
32	MG	A	3332	1/1	1.00	0.02	59,59,59,59	0
32	MG	T	509	1/1	1.00	0.01	27,27,27,27	0
32	MG	a	4490	1/1	1.00	0.03	29,29,29,29	0
32	MG	A	3333	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3039	1/1	1.00	0.01	73,73,73,73	0
32	MG	T	512	1/1	1.00	0.03	30,30,30,30	0
32	MG	A	3004	1/1	1.00	0.01	20,20,20,20	0
32	MG	A	3336	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3906	1/1	1.00	0.02	21,21,21,21	0
32	MG	A	3907	1/1	1.00	0.02	6,6,6,6	0
32	MG	A	3337	1/1	1.00	0.03	49,49,49,49	0
32	MG	A	3909	1/1	1.00	0.01	38,38,38,38	0
32	MG	U	301	1/1	1.00	0.01	11,11,11,11	0
32	MG	a	4501	1/1	1.00	0.08	31,31,31,31	0
32	MG	a	4502	1/1	1.00	0.01	28,28,28,28	0
32	MG	U	302	1/1	1.00	0.03	48,48,48,48	0
32	MG	U	303	1/1	1.00	0.01	65,65,65,65	0
32	MG	A	3338	1/1	1.00	0.03	57,57,57,57	0
32	MG	a	4506	1/1	1.00	0.02	22,22,22,22	0
32	MG	U	305	1/1	1.00	0.02	8,8,8,8	0
32	MG	A	3339	1/1	1.00	0.02	58,58,58,58	0
32	MG	A	3340	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3341	1/1	1.00	0.02	39,39,39,39	0
32	MG	A	3914	1/1	1.00	0.03	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	4512	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3342	1/1	1.00	0.02	21,21,21,21	0
32	MG	A	3343	1/1	1.00	0.04	94,94,94,94	0
32	MG	V	101	1/1	1.00	0.01	41,41,41,41	0
32	MG	V	102	1/1	1.00	0.01	42,42,42,42	0
32	MG	V	103	1/1	1.00	0.02	45,45,45,45	0
32	MG	V	104	1/1	1.00	0.02	64,64,64,64	0
32	MG	A	3041	1/1	1.00	0.01	28,28,28,28	0
32	MG	W	101	1/1	1.00	0.01	26,26,26,26	0
32	MG	W	102	1/1	1.00	0.04	51,51,51,51	0
32	MG	W	103	1/1	1.00	0.01	18,18,18,18	0
32	MG	W	104	1/1	1.00	0.03	9,9,9,9	0
32	MG	W	105	1/1	1.00	0.02	24,24,24,24	0
32	MG	W	106	1/1	1.00	0.02	59,59,59,59	0
32	MG	W	107	1/1	1.00	0.01	75,75,75,75	0
32	MG	a	4527	1/1	1.00	0.01	23,23,23,23	0
32	MG	W	108	1/1	1.00	0.01	70,70,70,70	0
32	MG	W	109	1/1	1.00	0.01	64,64,64,64	0
32	MG	A	3345	1/1	1.00	0.04	30,30,30,30	0
32	MG	A	3346	1/1	1.00	0.01	40,40,40,40	0
32	MG	a	4532	1/1	1.00	0.03	27,27,27,27	0
32	MG	A	3347	1/1	1.00	0.08	52,52,52,52	0
32	MG	W	113	1/1	1.00	0.02	0,0,0,0	0
32	MG	W	114	1/1	1.00	0.03	2,2,2,2	0
32	MG	A	3348	1/1	1.00	0.02	60,60,60,60	0
32	MG	X	101	1/1	1.00	0.02	55,55,55,55	0
32	MG	X	102	1/1	1.00	0.02	57,57,57,57	0
32	MG	X	103	1/1	1.00	0.03	66,66,66,66	0
32	MG	X	104	1/1	1.00	0.02	66,66,66,66	0
32	MG	A	3349	1/1	1.00	0.04	76,76,76,76	0
32	MG	a	4542	1/1	1.00	0.03	24,24,24,24	0
32	MG	a	4543	1/1	1.00	0.03	17,17,17,17	0
32	MG	A	3350	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3924	1/1	1.00	0.02	4,4,4,4	0
32	MG	A	3925	1/1	1.00	0.02	12,12,12,12	0
32	MG	A	3351	1/1	1.00	0.04	59,59,59,59	0
32	MG	A	3927	1/1	1.00	0.02	35,35,35,35	0
32	MG	A	3352	1/1	1.00	0.02	50,50,50,50	0
32	MG	A	3353	1/1	1.00	0.02	49,49,49,49	0
32	MG	A	3354	1/1	1.00	0.04	37,37,37,37	0
32	MG	a	4552	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3042	1/1	1.00	0.01	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3356	1/1	1.00	0.01	48,48,48,48	0
32	MG	A	3357	1/1	1.00	0.03	77,77,77,77	0
32	MG	a	4556	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3358	1/1	1.00	0.05	34,34,34,34	0
32	MG	A	3935	1/1	1.00	0.03	1,1,1,1	0
32	MG	0	102	1/1	1.00	0.01	5,5,5,5	0
32	MG	A	3359	1/1	1.00	0.02	39,39,39,39	0
32	MG	A	3360	1/1	1.00	0.02	35,35,35,35	0
32	MG	a	4562	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3361	1/1	1.00	0.03	56,56,56,56	0
32	MG	A	3043	1/1	1.00	0.01	18,18,18,18	0
32	MG	A	3363	1/1	1.00	0.03	64,64,64,64	0
32	MG	13	101	1/1	1.00	0.02	77,77,77,77	0
32	MG	13	102	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	4568	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	4569	1/1	1.00	0.03	32,32,32,32	0
32	MG	2	101	1/1	1.00	0.01	26,26,26,26	0
32	MG	2	102	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3005	1/1	1.00	0.01	22,22,22,22	0
32	MG	2	104	1/1	1.00	0.03	67,67,67,67	0
32	MG	2	105	1/1	1.00	0.02	63,63,63,63	0
32	MG	A	3942	1/1	1.00	0.02	0,0,0,0	0
32	MG	A	3045	1/1	1.00	0.01	66,66,66,66	0
32	MG	A	3366	1/1	1.00	0.03	33,33,33,33	0
32	MG	A	3367	1/1	1.00	0.05	50,50,50,50	0
32	MG	A	3368	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3369	1/1	1.00	0.06	52,52,52,52	0
32	MG	3	101	1/1	1.00	0.01	20,20,20,20	0
32	MG	3	102	1/1	1.00	0.04	31,31,31,31	0
32	MG	a	4583	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	4584	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	3001	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3002	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	4587	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	3003	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3004	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	3005	1/1	1.00	0.02	15,15,15,15	0
32	MG	a	4591	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	4592	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3370	1/1	1.00	0.03	47,47,47,47	0
32	MG	a	3007	1/1	1.00	0.03	35,35,35,35	0
32	MG	a	4595	1/1	1.00	0.01	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3008	1/1	1.00	0.02	16,16,16,16	0
32	MG	a	3009	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3010	1/1	1.00	0.03	34,34,34,34	0
32	MG	a	3011	1/1	1.00	0.01	33,33,33,33	0
32	MG	a	3012	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	3013	1/1	1.00	0.01	11,11,11,11	0
32	MG	a	3014	1/1	1.00	0.02	46,46,46,46	0
32	MG	a	3015	1/1	1.00	0.01	40,40,40,40	0
32	MG	a	3016	1/1	1.00	0.03	29,29,29,29	0
32	MG	a	3017	1/1	1.00	0.03	14,14,14,14	0
32	MG	a	4606	1/1	1.00	0.04	29,29,29,29	0
32	MG	a	3018	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3019	1/1	1.00	0.02	7,7,7,7	0
32	MG	a	3020	1/1	1.00	0.03	17,17,17,17	0
32	MG	a	4610	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	3021	1/1	1.00	0.02	27,27,27,27	0
32	MG	a	3022	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3023	1/1	1.00	0.02	31,31,31,31	0
32	MG	a	3024	1/1	1.00	0.01	23,23,23,23	0
32	MG	b	201	1/1	1.00	0.02	91,91,91,91	0
32	MG	A	3371	1/1	1.00	0.01	38,38,38,38	0
32	MG	b	203	1/1	1.00	0.02	29,29,29,29	0
32	MG	b	204	1/1	1.00	0.02	38,38,38,38	0
32	MG	b	205	1/1	1.00	0.03	83,83,83,83	0
32	MG	b	206	1/1	1.00	0.02	63,63,63,63	0
32	MG	b	207	1/1	1.00	0.04	42,42,42,42	0
32	MG	b	208	1/1	1.00	0.01	44,44,44,44	0
32	MG	b	209	1/1	1.00	0.03	52,52,52,52	0
32	MG	b	210	1/1	1.00	0.04	61,61,61,61	0
32	MG	a	3026	1/1	1.00	0.02	16,16,16,16	0
32	MG	A	3372	1/1	1.00	0.01	47,47,47,47	0
32	MG	a	3028	1/1	1.00	0.02	41,41,41,41	0
32	MG	b	214	1/1	1.00	0.03	14,14,14,14	0
32	MG	a	3029	1/1	1.00	0.02	19,19,19,19	0
32	MG	b	216	1/1	1.00	0.01	28,28,28,28	0
32	MG	a	3030	1/1	1.00	0.01	29,29,29,29	0
32	MG	a	3031	1/1	1.00	0.03	42,42,42,42	0
32	MG	a	3032	1/1	1.00	0.03	50,50,50,50	0
32	MG	a	3033	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	3034	1/1	1.00	0.01	30,30,30,30	0
32	MG	c	301	1/1	1.00	0.02	37,37,37,37	0
32	MG	c	302	1/1	1.00	0.04	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	c	303	1/1	1.00	0.01	62,62,62,62	0
32	MG	c	304	1/1	1.00	0.03	61,61,61,61	0
32	MG	c	305	1/1	1.00	0.04	74,74,74,74	0
32	MG	c	306	1/1	1.00	0.04	53,53,53,53	0
32	MG	c	307	1/1	1.00	0.01	70,70,70,70	0
32	MG	c	308	1/1	1.00	0.02	60,60,60,60	0
32	MG	c	309	1/1	1.00	0.05	74,74,74,74	0
32	MG	c	310	1/1	1.00	0.02	88,88,88,88	0
32	MG	c	311	1/1	1.00	0.01	62,62,62,62	0
32	MG	c	312	1/1	1.00	0.02	62,62,62,62	0
32	MG	c	313	1/1	1.00	0.01	65,65,65,65	0
32	MG	a	3035	1/1	1.00	0.04	42,42,42,42	0
32	MG	a	3036	1/1	1.00	0.04	33,33,33,33	0
32	MG	a	3037	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3038	1/1	1.00	0.02	52,52,52,52	0
32	MG	a	3039	1/1	1.00	0.02	46,46,46,46	0
32	MG	a	3040	1/1	1.00	0.01	61,61,61,61	0
32	MG	a	3041	1/1	1.00	0.01	38,38,38,38	0
32	MG	a	3042	1/1	1.00	0.03	30,30,30,30	0
32	MG	a	3043	1/1	1.00	0.03	47,47,47,47	0
32	MG	a	3044	1/1	1.00	0.04	41,41,41,41	0
32	MG	a	3045	1/1	1.00	0.02	33,33,33,33	0
32	MG	a	3046	1/1	1.00	0.02	47,47,47,47	0
32	MG	a	3047	1/1	1.00	0.01	6,6,6,6	0
32	MG	a	3048	1/1	1.00	0.05	24,24,24,24	0
32	MG	a	3049	1/1	1.00	0.03	71,71,71,71	0
32	MG	a	3050	1/1	1.00	0.01	21,21,21,21	0
32	MG	a	3051	1/1	1.00	0.02	22,22,22,22	0
32	MG	a	3052	1/1	1.00	0.03	51,51,51,51	0
32	MG	a	3053	1/1	1.00	0.02	23,23,23,23	0
32	MG	a	3054	1/1	1.00	0.02	41,41,41,41	0
32	MG	d	301	1/1	1.00	0.01	31,31,31,31	0
32	MG	d	302	1/1	1.00	0.03	54,54,54,54	0
32	MG	d	303	1/1	1.00	0.02	70,70,70,70	0
32	MG	d	304	1/1	1.00	0.02	53,53,53,53	0
32	MG	d	305	1/1	1.00	0.02	49,49,49,49	0
32	MG	d	306	1/1	1.00	0.02	64,64,64,64	0
32	MG	d	307	1/1	1.00	0.01	67,67,67,67	0
32	MG	d	308	1/1	1.00	0.01	55,55,55,55	0
32	MG	d	309	1/1	1.00	0.01	57,57,57,57	0
32	MG	d	310	1/1	1.00	0.02	53,53,53,53	0
32	MG	d	311	1/1	1.00	0.05	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	d	312	1/1	1.00	0.02	75,75,75,75	0
32	MG	d	313	1/1	1.00	0.02	81,81,81,81	0
32	MG	d	314	1/1	1.00	0.03	79,79,79,79	0
32	MG	d	315	1/1	1.00	0.04	12,12,12,12	0
32	MG	d	316	1/1	1.00	0.06	29,29,29,29	0
32	MG	a	3055	1/1	1.00	0.03	39,39,39,39	0
32	MG	d	318	1/1	1.00	0.02	40,40,40,40	0
32	MG	a	3056	1/1	1.00	0.03	32,32,32,32	0
32	MG	a	3057	1/1	1.00	0.02	64,64,64,64	0
32	MG	d	321	1/1	1.00	0.04	39,39,39,39	0
32	MG	a	3058	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3059	1/1	1.00	0.01	34,34,34,34	0
32	MG	a	3060	1/1	1.00	0.02	29,29,29,29	0
32	MG	a	3061	1/1	1.00	0.01	40,40,40,40	0
32	MG	e	301	1/1	1.00	0.01	51,51,51,51	0
32	MG	e	302	1/1	1.00	0.04	49,49,49,49	0
32	MG	e	303	1/1	1.00	0.04	53,53,53,53	0
32	MG	e	304	1/1	1.00	0.02	49,49,49,49	0
32	MG	e	305	1/1	1.00	0.01	49,49,49,49	0
32	MG	e	306	1/1	1.00	0.01	53,53,53,53	0
32	MG	e	307	1/1	1.00	0.02	49,49,49,49	0
32	MG	e	308	1/1	1.00	0.01	54,54,54,54	0
32	MG	e	309	1/1	1.00	0.03	67,67,67,67	0
32	MG	e	310	1/1	1.00	0.03	78,78,78,78	0
32	MG	a	3062	1/1	1.00	0.04	20,20,20,20	0
32	MG	a	3063	1/1	1.00	0.01	31,31,31,31	0
32	MG	e	313	1/1	1.00	0.02	1,1,1,1	0
32	MG	a	3064	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3065	1/1	1.00	0.01	21,21,21,21	0
32	MG	a	3066	1/1	1.00	0.03	40,40,40,40	0
32	MG	a	3067	1/1	1.00	0.01	26,26,26,26	0
32	MG	e	318	1/1	1.00	0.01	95,95,95,95	0
32	MG	a	3068	1/1	1.00	0.01	37,37,37,37	0
32	MG	a	3069	1/1	1.00	0.02	67,67,67,67	0
32	MG	a	3070	1/1	1.00	0.01	38,38,38,38	0
32	MG	a	3071	1/1	1.00	0.02	34,34,34,34	0
32	MG	a	3072	1/1	1.00	0.06	66,66,66,66	0
32	MG	a	3073	1/1	1.00	0.03	22,22,22,22	0
32	MG	a	3074	1/1	1.00	0.01	52,52,52,52	0
32	MG	e	326	1/1	1.00	0.01	30,30,30,30	0
32	MG	a	3075	1/1	1.00	0.01	31,31,31,31	0
32	MG	e	328	1/1	1.00	0.06	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3373	1/1	1.00	0.02	53,53,53,53	0
32	MG	a	3077	1/1	1.00	0.01	14,14,14,14	0
32	MG	e	331	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3078	1/1	1.00	0.02	78,78,78,78	0
32	MG	A	3374	1/1	1.00	0.01	43,43,43,43	0
32	MG	A	3375	1/1	1.00	0.03	49,49,49,49	0
32	MG	a	3081	1/1	1.00	0.02	43,43,43,43	0
32	MG	a	3082	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3083	1/1	1.00	0.01	19,19,19,19	0
32	MG	f	201	1/1	1.00	0.01	31,31,31,31	0
32	MG	f	202	1/1	1.00	0.02	73,73,73,73	0
32	MG	f	203	1/1	1.00	0.02	79,79,79,79	0
32	MG	a	3084	1/1	1.00	0.01	30,30,30,30	0
32	MG	a	3085	1/1	1.00	0.02	64,64,64,64	0
32	MG	g	202	1/1	1.00	0.05	35,35,35,35	0
32	MG	a	3086	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	3087	1/1	1.00	0.07	23,23,23,23	0
32	MG	a	3088	1/1	1.00	0.01	15,15,15,15	0
32	MG	a	3089	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3090	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3091	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3092	1/1	1.00	0.03	15,15,15,15	0
32	MG	h	201	1/1	1.00	0.02	53,53,53,53	0
32	MG	h	202	1/1	1.00	0.03	53,53,53,53	0
32	MG	h	203	1/1	1.00	0.03	53,53,53,53	0
32	MG	h	204	1/1	1.00	0.03	95,95,95,95	0
32	MG	a	3093	1/1	1.00	0.02	10,10,10,10	0
32	MG	h	206	1/1	1.00	0.03	9,9,9,9	0
32	MG	A	3376	1/1	1.00	0.03	68,68,68,68	0
32	MG	a	3095	1/1	1.00	0.01	14,14,14,14	0
32	MG	a	3096	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	3097	1/1	1.00	0.01	13,13,13,13	0
32	MG	a	3098	1/1	1.00	0.02	45,45,45,45	0
32	MG	a	3099	1/1	1.00	0.02	48,48,48,48	0
32	MG	a	3100	1/1	1.00	0.01	131,131,131,131	0
32	MG	a	3101	1/1	1.00	0.01	24,24,24,24	0
32	MG	a	3102	1/1	1.00	0.01	30,30,30,30	0
32	MG	a	3103	1/1	1.00	0.01	48,48,48,48	0
32	MG	h	217	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3104	1/1	1.00	0.00	5,5,5,5	0
32	MG	i	201	1/1	1.00	0.03	76,76,76,76	0
32	MG	i	202	1/1	1.00	0.01	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	i	203	1/1	1.00	0.03	68,68,68,68	0
32	MG	i	204	1/1	1.00	0.02	64,64,64,64	0
32	MG	i	205	1/1	1.00	0.02	67,67,67,67	0
32	MG	i	206	1/1	1.00	0.01	65,65,65,65	0
32	MG	a	3105	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3106	1/1	1.00	0.01	28,28,28,28	0
32	MG	a	3107	1/1	1.00	0.01	14,14,14,14	0
32	MG	a	3108	1/1	1.00	0.04	41,41,41,41	0
32	MG	a	3109	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3110	1/1	1.00	0.01	11,11,11,11	0
32	MG	a	3111	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3112	1/1	1.00	0.02	37,37,37,37	0
32	MG	i	215	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	3113	1/1	1.00	0.04	24,24,24,24	0
32	MG	a	3114	1/1	1.00	0.02	39,39,39,39	0
32	MG	a	3115	1/1	1.00	0.03	36,36,36,36	0
32	MG	a	3116	1/1	1.00	0.03	46,46,46,46	0
32	MG	a	3117	1/1	1.00	0.02	23,23,23,23	0
32	MG	a	3118	1/1	1.00	0.02	23,23,23,23	0
32	MG	a	3119	1/1	1.00	0.02	44,44,44,44	0
32	MG	a	3120	1/1	1.00	0.01	43,43,43,43	0
32	MG	a	3121	1/1	1.00	0.04	29,29,29,29	0
32	MG	a	3122	1/1	1.00	0.03	30,30,30,30	0
32	MG	a	3123	1/1	1.00	0.03	53,53,53,53	0
32	MG	j	201	1/1	1.00	0.02	45,45,45,45	0
32	MG	j	202	1/1	1.00	0.03	53,53,53,53	0
32	MG	j	203	1/1	1.00	0.03	77,77,77,77	0
32	MG	j	204	1/1	1.00	0.01	54,54,54,54	0
32	MG	j	205	1/1	1.00	0.01	69,69,69,69	0
32	MG	j	206	1/1	1.00	0.03	48,48,48,48	0
32	MG	j	207	1/1	1.00	0.02	60,60,60,60	0
32	MG	j	208	1/1	1.00	0.02	74,74,74,74	0
32	MG	j	209	1/1	1.00	0.03	75,75,75,75	0
32	MG	j	210	1/1	1.00	0.02	63,63,63,63	0
32	MG	j	211	1/1	1.00	0.02	64,64,64,64	0
32	MG	j	212	1/1	1.00	0.02	65,65,65,65	0
32	MG	a	3124	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3125	1/1	1.00	0.03	22,22,22,22	0
32	MG	a	3126	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3127	1/1	1.00	0.01	21,21,21,21	0
32	MG	a	3128	1/1	1.00	0.02	33,33,33,33	0
32	MG	a	3129	1/1	1.00	0.02	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	j	219	1/1	1.00	0.02	22,22,22,22	0
32	MG	a	3130	1/1	1.00	0.02	29,29,29,29	0
32	MG	a	3131	1/1	1.00	0.01	29,29,29,29	0
32	MG	k	201	1/1	1.00	0.01	52,52,52,52	0
32	MG	k	202	1/1	1.00	0.01	94,94,94,94	0
32	MG	k	203	1/1	1.00	0.01	55,55,55,55	0
32	MG	k	204	1/1	1.00	0.02	54,54,54,54	0
32	MG	k	205	1/1	1.00	0.03	95,95,95,95	0
32	MG	A	3955	1/1	1.00	0.03	31,31,31,31	0
32	MG	a	3133	1/1	1.00	0.02	18,18,18,18	0
32	MG	a	3134	1/1	1.00	0.03	39,39,39,39	0
32	MG	a	3135	1/1	1.00	0.01	22,22,22,22	0
32	MG	a	3136	1/1	1.00	0.03	44,44,44,44	0
32	MG	a	3137	1/1	1.00	0.01	34,34,34,34	0
32	MG	a	3138	1/1	1.00	0.02	31,31,31,31	0
32	MG	a	3139	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3140	1/1	1.00	0.03	46,46,46,46	0
32	MG	a	3141	1/1	1.00	0.02	40,40,40,40	0
32	MG	k	216	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	3142	1/1	1.00	0.02	23,23,23,23	0
32	MG	a	3143	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3144	1/1	1.00	0.02	24,24,24,24	0
32	MG	a	3145	1/1	1.00	0.02	24,24,24,24	0
32	MG	l	201	1/1	1.00	0.01	16,16,16,16	0
32	MG	l	202	1/1	1.00	0.01	13,13,13,13	0
32	MG	l	203	1/1	1.00	0.03	49,49,49,49	0
32	MG	l	204	1/1	1.00	0.02	27,27,27,27	0
32	MG	l	205	1/1	1.00	0.02	50,50,50,50	0
32	MG	l	206	1/1	1.00	0.08	64,64,64,64	0
32	MG	l	207	1/1	1.00	0.02	59,59,59,59	0
32	MG	l	208	1/1	1.00	0.01	56,56,56,56	0
32	MG	l	209	1/1	1.00	0.02	32,32,32,32	0
32	MG	a	3146	1/1	1.00	0.02	30,30,30,30	0
32	MG	l	211	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3147	1/1	1.00	0.01	28,28,28,28	0
32	MG	l	213	1/1	1.00	0.01	12,12,12,12	0
32	MG	a	3148	1/1	1.00	0.05	54,54,54,54	0
32	MG	a	3149	1/1	1.00	0.03	29,29,29,29	0
32	MG	a	3150	1/1	1.00	0.01	46,46,46,46	0
32	MG	a	3151	1/1	1.00	0.03	55,55,55,55	0
32	MG	m	202	1/1	1.00	0.03	65,65,65,65	0
32	MG	m	203	1/1	1.00	0.03	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	m	204	1/1	1.00	0.01	75,75,75,75	0
32	MG	m	205	1/1	1.00	0.01	66,66,66,66	0
32	MG	m	206	1/1	1.00	0.04	82,82,82,82	0
32	MG	a	3152	1/1	1.00	0.01	25,25,25,25	0
32	MG	a	3153	1/1	1.00	0.03	38,38,38,38	0
32	MG	a	3154	1/1	1.00	0.02	34,34,34,34	0
32	MG	a	3155	1/1	1.00	0.01	17,17,17,17	0
32	MG	a	3156	1/1	1.00	0.01	34,34,34,34	0
32	MG	m	212	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	3157	1/1	1.00	0.01	26,26,26,26	0
32	MG	a	3158	1/1	1.00	0.03	37,37,37,37	0
32	MG	a	3159	1/1	1.00	0.02	38,38,38,38	0
32	MG	a	3160	1/1	1.00	0.01	42,42,42,42	0
32	MG	a	3161	1/1	1.00	0.03	51,51,51,51	0
32	MG	a	3162	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	3163	1/1	1.00	0.02	36,36,36,36	0
32	MG	n	201	1/1	1.00	0.01	43,43,43,43	0
32	MG	a	3164	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	3165	1/1	1.00	0.03	34,34,34,34	0
32	MG	a	3166	1/1	1.00	0.02	7,7,7,7	0
32	MG	a	3167	1/1	1.00	0.01	17,17,17,17	0
32	MG	n	206	1/1	1.00	0.03	25,25,25,25	0
32	MG	a	3168	1/1	1.00	0.02	34,34,34,34	0
32	MG	o	201	1/1	1.00	0.02	37,37,37,37	0
32	MG	o	202	1/1	1.00	0.04	65,65,65,65	0
32	MG	o	203	1/1	1.00	0.02	57,57,57,57	0
32	MG	o	204	1/1	1.00	0.03	30,30,30,30	0
32	MG	o	205	1/1	1.00	0.03	47,47,47,47	0
32	MG	a	3169	1/1	1.00	0.04	42,42,42,42	0
32	MG	o	207	1/1	1.00	0.02	76,76,76,76	0
32	MG	o	208	1/1	1.00	0.02	85,85,85,85	0
32	MG	o	209	1/1	1.00	0.03	101,101,101,101	0
32	MG	o	210	1/1	1.00	0.02	83,83,83,83	0
32	MG	o	211	1/1	1.00	0.01	61,61,61,61	0
32	MG	o	212	1/1	1.00	0.03	75,75,75,75	0
32	MG	a	3170	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3171	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	3172	1/1	1.00	0.03	46,46,46,46	0
32	MG	a	3173	1/1	1.00	0.01	37,37,37,37	0
32	MG	a	3174	1/1	1.00	0.01	9,9,9,9	0
32	MG	a	3175	1/1	1.00	0.01	21,21,21,21	0
32	MG	a	3176	1/1	1.00	0.01	3,3,3,3	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3177	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	3178	1/1	1.00	0.01	39,39,39,39	0
32	MG	a	3179	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3180	1/1	1.00	0.01	43,43,43,43	0
32	MG	A	3377	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3182	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3183	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3184	1/1	1.00	0.02	22,22,22,22	0
32	MG	a	3185	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3186	1/1	1.00	0.02	48,48,48,48	0
32	MG	a	3187	1/1	1.00	0.03	18,18,18,18	0
32	MG	a	3188	1/1	1.00	0.01	23,23,23,23	0
32	MG	p	201	1/1	1.00	0.01	22,22,22,22	0
32	MG	p	202	1/1	1.00	0.02	26,26,26,26	0
32	MG	p	203	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	3189	1/1	1.00	0.01	38,38,38,38	0
32	MG	p	205	1/1	1.00	0.01	52,52,52,52	0
32	MG	p	206	1/1	1.00	0.02	51,51,51,51	0
32	MG	p	207	1/1	1.00	0.03	70,70,70,70	0
32	MG	p	208	1/1	1.00	0.01	38,38,38,38	0
32	MG	A	3378	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3191	1/1	1.00	0.02	38,38,38,38	0
32	MG	a	3192	1/1	1.00	0.02	50,50,50,50	0
32	MG	a	3193	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3194	1/1	1.00	0.01	29,29,29,29	0
32	MG	a	3195	1/1	1.00	0.01	24,24,24,24	0
32	MG	a	3196	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3197	1/1	1.00	0.03	57,57,57,57	0
32	MG	q	201	1/1	1.00	0.02	14,14,14,14	0
32	MG	q	202	1/1	1.00	0.01	46,46,46,46	0
32	MG	q	203	1/1	1.00	0.01	15,15,15,15	0
32	MG	q	204	1/1	1.00	0.02	73,73,73,73	0
32	MG	q	205	1/1	1.00	0.02	69,69,69,69	0
32	MG	q	206	1/1	1.00	0.01	67,67,67,67	0
32	MG	q	207	1/1	1.00	0.01	67,67,67,67	0
32	MG	a	3198	1/1	1.00	0.04	42,42,42,42	0
32	MG	a	3199	1/1	1.00	0.02	46,46,46,46	0
32	MG	a	3200	1/1	1.00	0.04	56,56,56,56	0
32	MG	a	3201	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3202	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3203	1/1	1.00	0.02	32,32,32,32	0
32	MG	a	3204	1/1	1.00	0.01	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3205	1/1	1.00	0.01	27,27,27,27	0
32	MG	q	216	1/1	1.00	0.01	29,29,29,29	0
32	MG	a	3206	1/1	1.00	0.02	34,34,34,34	0
32	MG	a	3207	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	3208	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3209	1/1	1.00	0.02	32,32,32,32	0
32	MG	a	3210	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3211	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3212	1/1	1.00	0.03	32,32,32,32	0
32	MG	a	3213	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	3214	1/1	1.00	0.01	31,31,31,31	0
32	MG	a	3215	1/1	1.00	0.01	25,25,25,25	0
32	MG	q	227	1/1	1.00	0.03	25,25,25,25	0
32	MG	a	3216	1/1	1.00	0.01	37,37,37,37	0
32	MG	a	3217	1/1	1.00	0.06	46,46,46,46	0
32	MG	a	3218	1/1	1.00	0.02	23,23,23,23	0
32	MG	r	201	1/1	1.00	0.03	37,37,37,37	0
32	MG	r	202	1/1	1.00	0.01	55,55,55,55	0
32	MG	a	3219	1/1	1.00	0.01	35,35,35,35	0
32	MG	r	204	1/1	1.00	0.03	61,61,61,61	0
32	MG	r	205	1/1	1.00	0.01	43,43,43,43	0
32	MG	r	206	1/1	1.00	0.03	70,70,70,70	0
32	MG	r	207	1/1	1.00	0.02	70,70,70,70	0
32	MG	r	208	1/1	1.00	0.02	65,65,65,65	0
32	MG	a	3220	1/1	1.00	0.02	26,26,26,26	0
32	MG	r	210	1/1	1.00	0.02	77,77,77,77	0
32	MG	a	3221	1/1	1.00	0.03	22,22,22,22	0
32	MG	a	3222	1/1	1.00	0.01	13,13,13,13	0
32	MG	a	3223	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3224	1/1	1.00	0.01	68,68,68,68	0
32	MG	a	3225	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3379	1/1	1.00	0.02	80,80,80,80	0
32	MG	a	3227	1/1	1.00	0.04	50,50,50,50	0
32	MG	r	218	1/1	1.00	0.04	28,28,28,28	0
32	MG	a	3228	1/1	1.00	0.03	36,36,36,36	0
32	MG	a	3229	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	3230	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3231	1/1	1.00	0.02	75,75,75,75	0
32	MG	a	3232	1/1	1.00	0.01	43,43,43,43	0
32	MG	a	3233	1/1	1.00	0.02	55,55,55,55	0
32	MG	a	3234	1/1	1.00	0.01	65,65,65,65	0
32	MG	A	3380	1/1	1.00	0.02	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	a	3236	1/1	1.00	0.02	35,35,35,35	0
32	MG	a	3237	1/1	1.00	0.06	49,49,49,49	0
32	MG	s	101	1/1	1.00	0.01	38,38,38,38	0
32	MG	s	102	1/1	1.00	0.02	36,36,36,36	0
32	MG	s	103	1/1	1.00	0.06	75,75,75,75	0
32	MG	A	3960	1/1	1.00	0.04	2,2,2,2	0
32	MG	a	3239	1/1	1.00	0.02	48,48,48,48	0
32	MG	a	3240	1/1	1.00	0.03	40,40,40,40	0
32	MG	a	3241	1/1	1.00	0.01	48,48,48,48	0
32	MG	A	3381	1/1	1.00	0.01	51,51,51,51	0
32	MG	a	3243	1/1	1.00	0.02	47,47,47,47	0
32	MG	a	3244	1/1	1.00	0.02	68,68,68,68	0
32	MG	t	502	1/1	1.00	0.01	57,57,57,57	0
32	MG	t	503	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3245	1/1	1.00	0.03	33,33,33,33	0
32	MG	a	3246	1/1	1.00	0.02	44,44,44,44	0
32	MG	u	301	1/1	1.00	0.01	38,38,38,38	0
32	MG	u	302	1/1	1.00	0.01	41,41,41,41	0
32	MG	u	303	1/1	1.00	0.01	45,45,45,45	0
32	MG	u	304	1/1	1.00	0.01	64,64,64,64	0
32	MG	u	305	1/1	1.00	0.02	89,89,89,89	0
32	MG	u	306	1/1	1.00	0.02	46,46,46,46	0
32	MG	u	307	1/1	1.00	0.01	40,40,40,40	0
32	MG	u	308	1/1	1.00	0.01	54,54,54,54	0
32	MG	u	309	1/1	1.00	0.01	75,75,75,75	0
32	MG	u	310	1/1	1.00	0.01	75,75,75,75	0
32	MG	u	311	1/1	1.00	0.01	72,72,72,72	0
32	MG	u	312	1/1	1.00	0.02	70,70,70,70	0
32	MG	u	313	1/1	1.00	0.02	73,73,73,73	0
32	MG	u	314	1/1	1.00	0.02	78,78,78,78	0
32	MG	u	315	1/1	1.00	0.02	79,79,79,79	0
32	MG	A	3046	1/1	1.00	0.03	33,33,33,33	0
32	MG	a	3248	1/1	1.00	0.03	65,65,65,65	0
32	MG	a	3249	1/1	1.00	0.02	50,50,50,50	0
32	MG	u	319	1/1	1.00	0.02	3,3,3,3	0
32	MG	a	3250	1/1	1.00	0.03	49,49,49,49	0
32	MG	a	3251	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	3252	1/1	1.00	0.01	61,61,61,61	0
32	MG	a	3253	1/1	1.00	0.03	63,63,63,63	0
32	MG	a	3254	1/1	1.00	0.02	118,118,118,118	0
32	MG	a	3255	1/1	1.00	0.03	47,47,47,47	0
32	MG	v	101	1/1	1.00	0.02	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	v	102	1/1	1.00	0.03	63,63,63,63	0
32	MG	v	103	1/1	1.00	0.02	80,80,80,80	0
32	MG	v	104	1/1	1.00	0.01	59,59,59,59	0
32	MG	v	105	1/1	1.00	0.03	71,71,71,71	0
32	MG	v	106	1/1	1.00	0.03	17,17,17,17	0
32	MG	a	3256	1/1	1.00	0.02	59,59,59,59	0
32	MG	v	108	1/1	1.00	0.02	30,30,30,30	0
32	MG	a	3257	1/1	1.00	0.03	54,54,54,54	0
32	MG	a	3258	1/1	1.00	0.01	34,34,34,34	0
32	MG	a	3259	1/1	1.00	0.03	58,58,58,58	0
32	MG	w	101	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3260	1/1	1.00	0.01	24,24,24,24	0
32	MG	w	103	1/1	1.00	0.02	70,70,70,70	0
32	MG	w	104	1/1	1.00	0.02	60,60,60,60	0
32	MG	w	105	1/1	1.00	0.02	1,1,1,1	0
32	MG	a	3261	1/1	1.00	0.02	69,69,69,69	0
32	MG	a	3262	1/1	1.00	0.02	46,46,46,46	0
32	MG	a	3263	1/1	1.00	0.02	42,42,42,42	0
32	MG	A	3383	1/1	1.00	0.01	50,50,50,50	0
32	MG	a	3265	1/1	1.00	0.01	46,46,46,46	0
32	MG	x	101	1/1	1.00	0.01	64,64,64,64	0
32	MG	x	102	1/1	1.00	0.02	57,57,57,57	0
32	MG	x	103	1/1	1.00	0.01	58,58,58,58	0
32	MG	x	104	1/1	1.00	0.01	44,44,44,44	0
32	MG	a	3266	1/1	1.00	0.01	62,62,62,62	0
32	MG	x	106	1/1	1.00	0.03	62,62,62,62	0
32	MG	a	3267	1/1	1.00	0.05	32,32,32,32	0
32	MG	a	3268	1/1	1.00	0.01	33,33,33,33	0
32	MG	a	3269	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3270	1/1	1.00	0.02	58,58,58,58	0
32	MG	a	3271	1/1	1.00	0.02	60,60,60,60	0
32	MG	y	601	1/1	1.00	0.02	56,56,56,56	0
32	MG	y	602	1/1	1.00	0.02	40,40,40,40	0
32	MG	y	603	1/1	1.00	0.03	75,75,75,75	0
32	MG	y	604	1/1	1.00	0.02	18,18,18,18	0
32	MG	y	605	1/1	1.00	0.03	8,8,8,8	0
32	MG	a	3272	1/1	1.00	0.03	78,78,78,78	0
32	MG	a	3273	1/1	1.00	0.02	49,49,49,49	0
32	MG	A	3384	1/1	1.00	0.01	88,88,88,88	0
32	MG	A	3385	1/1	1.00	0.02	40,40,40,40	0
32	MG	A	3386	1/1	1.00	0.06	60,60,60,60	0
32	MG	a	3277	1/1	1.00	0.02	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
32	MG	A	3387	1/1	1.00	0.01	54,54,54,54	0
32	MG	a	3279	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	3280	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	3281	1/1	1.00	0.06	41,41,41,41	0
32	MG	a	3282	1/1	1.00	0.02	90,90,90,90	0
32	MG	A	3388	1/1	1.00	0.02	57,57,57,57	0
32	MG	a	3284	1/1	1.00	0.02	62,62,62,62	0
32	MG	a	3285	1/1	1.00	0.03	45,45,45,45	0
32	MG	a	3286	1/1	1.00	0.02	52,52,52,52	0
32	MG	6	502	1/1	1.00	0.01	58,58,58,58	0
32	MG	6	503	1/1	1.00	0.03	49,49,49,49	0
32	MG	6	504	1/1	1.00	0.04	95,95,95,95	0
32	MG	6	505	1/1	1.00	0.03	8,8,8,8	0
32	MG	6	506	1/1	1.00	0.01	32,32,32,32	0
32	MG	a	3287	1/1	1.00	0.02	46,46,46,46	0
32	MG	7	101	1/1	1.00	0.01	40,40,40,40	0
32	MG	7	102	1/1	1.00	0.02	51,51,51,51	0
32	MG	7	103	1/1	1.00	0.04	85,85,85,85	0
32	MG	a	3288	1/1	1.00	0.02	50,50,50,50	0
32	MG	a	3289	1/1	1.00	0.02	55,55,55,55	0
32	MG	a	3290	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3291	1/1	1.00	0.04	51,51,51,51	0
32	MG	8	101	1/1	1.00	0.02	42,42,42,42	0
32	MG	8	102	1/1	1.00	0.02	53,53,53,53	0
32	MG	8	103	1/1	1.00	0.03	84,84,84,84	0
32	MG	a	3292	1/1	1.00	0.02	46,46,46,46	0
32	MG	8	105	1/1	1.00	0.03	21,21,21,21	0
32	MG	A	3389	1/1	1.00	0.03	83,83,83,83	0
32	MG	a	3294	1/1	1.00	0.03	36,36,36,36	0
32	MG	a	3295	1/1	1.00	0.02	53,53,53,53	0
32	MG	8	109	1/1	1.00	0.03	27,27,27,27	0
32	MG	a	3296	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3297	1/1	1.00	0.01	31,31,31,31	0
32	MG	a	3298	1/1	1.00	0.01	50,50,50,50	0
32	MG	9	102	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3299	1/1	1.00	0.02	65,65,65,65	0
32	MG	A	3970	1/1	1.00	0.03	0,0,0,0	0
33	ZN	T	501	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3390	1/1	1.00	0.01	44,44,44,44	0
33	ZN	0	108	1/1	1.00	0.01	67,67,67,67	0
33	ZN	13	103	1/1	1.00	0.00	7,7,7,7	0
33	ZN	4	101	1/1	1.00	0.01	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
33	ZN	t	501	1/1	1.00	0.01	163,163,163,163	0
32	MG	a	3302	1/1	1.00	0.01	45,45,45,45	0
33	ZN	5	101	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3391	1/1	1.00	0.04	67,67,67,67	0
33	ZN	9	101	1/1	1.00	0.03	86,86,86,86	0

6.5 Other polymers [i](#)

There are no such residues in this entry.