Full wwPDB X-ray Structure Validation Report ⓘ

Oct 29, 2024 – 12:03 PM JST

PDB ID	:	8WV1
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:

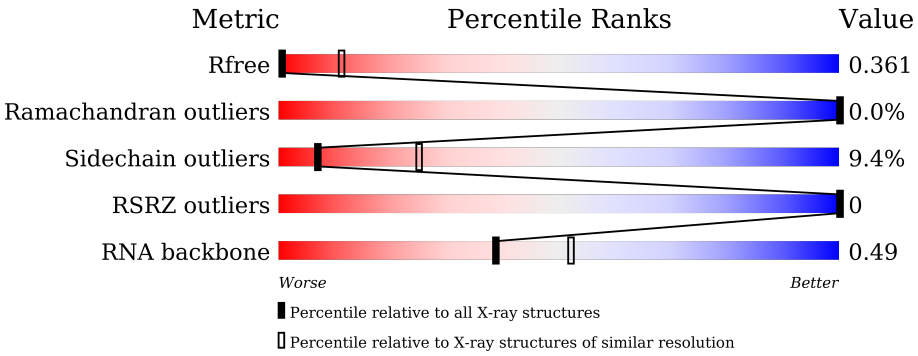
MolProbity	:	4.02b-467
Mogul	:	1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.39

1 Overall quality at a glance (i)

The following experimental techniques were used to determine the structure:
X-RAY DIFFRACTION

The reported resolution of this entry is 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}	164625	1028 (4.22-3.78)
Ramachandran outliers	177936	1004 (4.20-3.80)
Sidechain outliers	177891	1027 (4.22-3.78)
RSRZ outliers	164620	1029 (4.22-3.78)
RNA backbone	3690	1144 (5.00-3.00)

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

Mol	Chain	Length	Quality of chain
1	A	2915	74% 24% ·
1	a	2915	75% 23% ·
2	B	122	85% 13% ·
2	b	122	77% 21% ·
3	C	276	95% 5%
3	c	276	93% 7%

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Mol	Chain	Length	Quality of chain
4	D	206	91% 8%
4	d	206	91% 8%
5	E	210	91% 6%
5	e	210	89% 8%
6	F	182	91% 8%
6	f	182	92% 8%
7	G	180	91% 6%
7	g	180	91% 6%
8	H	148	47% 51%
8	h	148	38% 58%
9	I	140	91% 9%
9	i	140	91% 9%
10	J	122	90% 10%
10	j	122	91% 9%
11	K	150	87% 12%
11	k	150	93% 7%
12	L	141	91% 9%
12	l	141	94% 6%
13	M	118	93% 7%
13	m	118	91% 9%
14	N	112	85% 13%
14	n	112	92% 6%
15	O	146	80% 10% 10%
15	o	146	79% 10% 10%
16	P	118	93% 5%

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Mol	Chain	Length	Quality of chain
16	p	118	91% 8%
17	Q	101	93% 7%
17	q	101	89% 11%
18	R	113	89% 10%
18	r	113	89% 10%
19	S	96	95%
19	s	96	92% 7%
20	T	107	94% 6%
20	t	107	92% 8%
21	U	206	91% 7%
21	u	206	88% 9%
22	V	78	91% 8%
22	v	78	94% 5%
23	W	98	96%
23	w	98	90% 9%
24	X	72	90% 7%
24	x	72	92% 6%
25	Y	60	90% 8%
25	y	60	95%
26	Z	71	59% 37%
26	z	71	66% 30%
27	0	60	88% 10%
27	5	60	90% 8%
28	13	54	91% 7%
28	6	54	93% 6%

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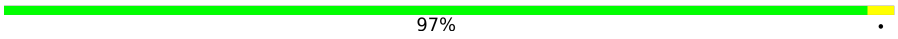
Mol	Chain	Length	Quality of chain
29	2	49	
29	7	49	
30	3	65	
30	8	65	
31	4	37	
31	9	37	

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

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 810	C 520	N 153	O 131	S 6	0	0	0

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

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

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

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

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 754	C 475	N 148	O 130	S 1	0	0	0
23	w	97	Total 754	C 475	N 148	O 130	S 1	0	0	0

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

- Molecule 32 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

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

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

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

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

- Molecule 33 is ZINC ION (three-letter code: ZN) (formula: Zn).

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

- Molecule 34 is water.

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
34	2	26	Total O 26 26	0	0
34	3	3	Total O 3 3	0	0
34	a	4732	Total O 4732 4732	0	0
34	b	78	Total O 78 78	0	0
34	c	74	Total O 74 74	0	0
34	d	94	Total O 94 94	0	0
34	e	81	Total O 81 81	0	0
34	f	12	Total O 12 12	0	0
34	g	6	Total O 6 6	0	0
34	h	19	Total O 19 19	0	0
34	i	49	Total O 49 49	0	0
34	j	75	Total O 75 75	0	0
34	k	30	Total O 30 30	0	0
34	l	68	Total O 68 68	0	0
34	m	38	Total O 38 38	0	0
34	n	9	Total O 9 9	0	0
34	o	79	Total O 79 79	0	0
34	p	51	Total O 51 51	0	0
34	q	40	Total O 40 40	0	0
34	r	47	Total O 47 47	0	0
34	s	32	Total O 32 32	0	0

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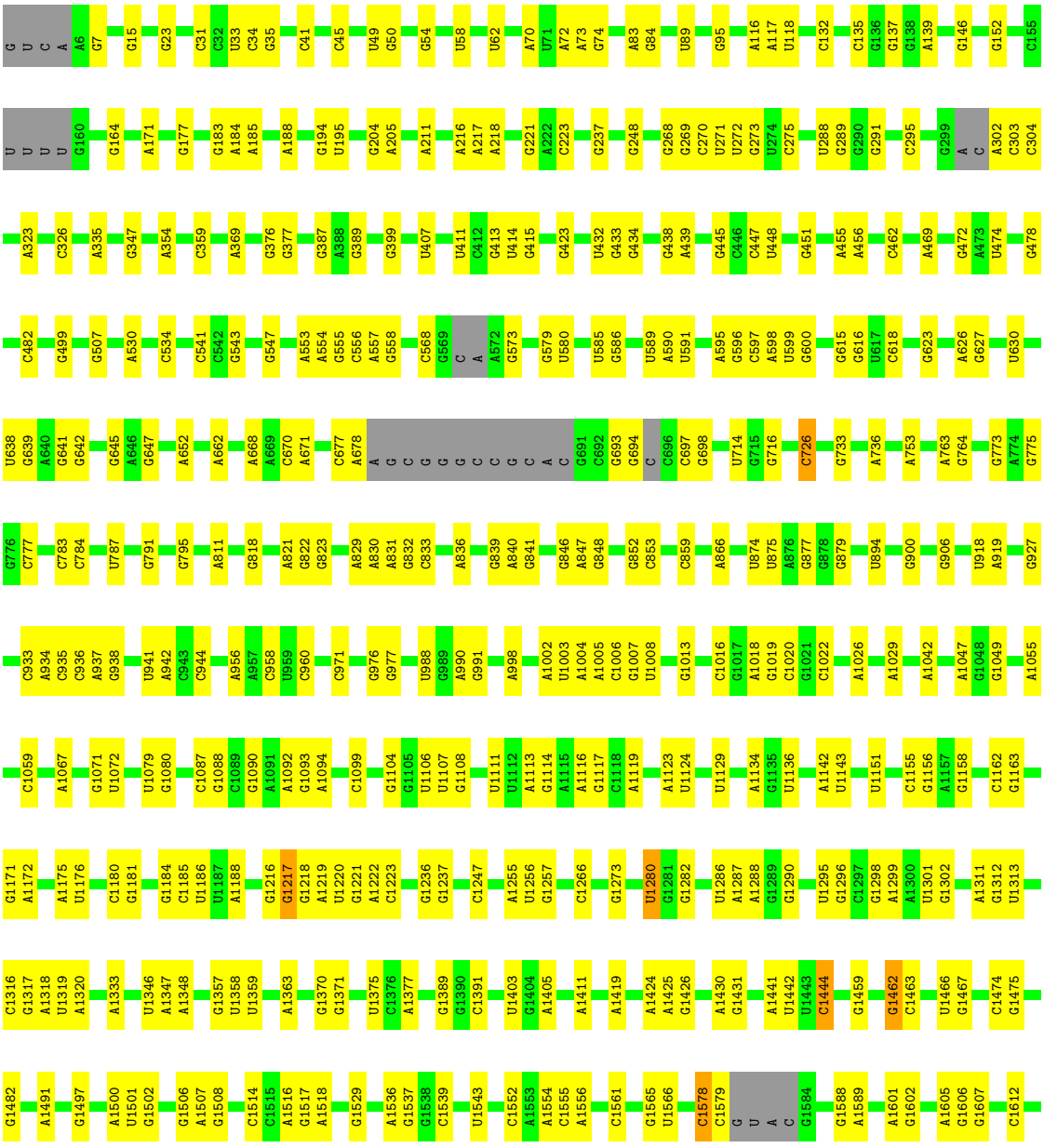
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
34	t	22	Total O 22 22	0	0
34	u	80	Total O 80 80	0	0
34	v	46	Total O 46 46	0	0
34	w	32	Total O 32 32	0	0
34	x	43	Total O 43 43	0	0
34	y	20	Total O 20 20	0	0
34	5	10	Total O 10 10	0	0
34	6	16	Total O 16 16	0	0
34	7	11	Total O 11 11	0	0
34	8	15	Total O 15 15	0	0
34	9	10	Total O 10 10	0	0

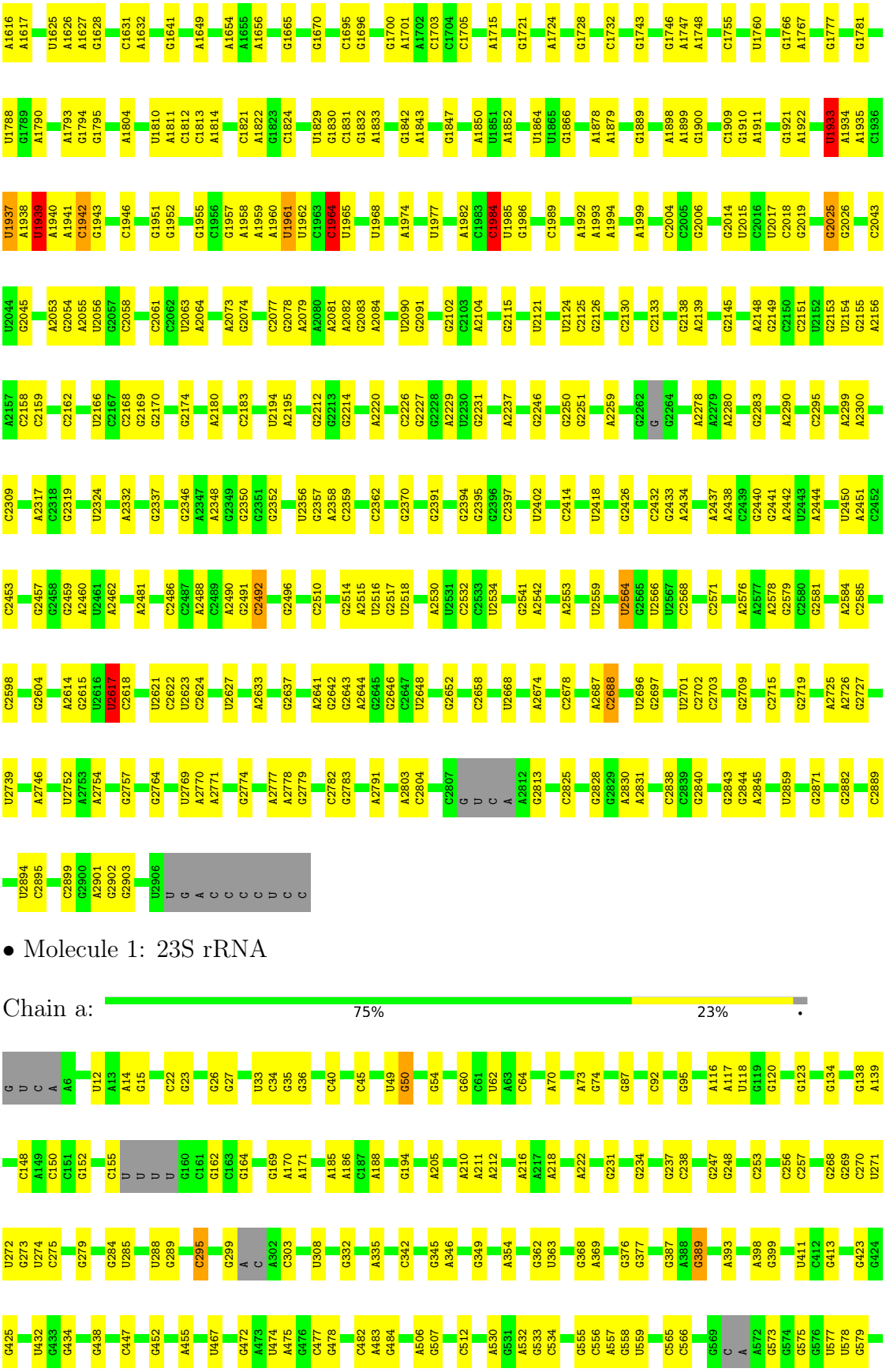
3 Residue-property plots (i)

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

- Molecule 1: 23S rRNA

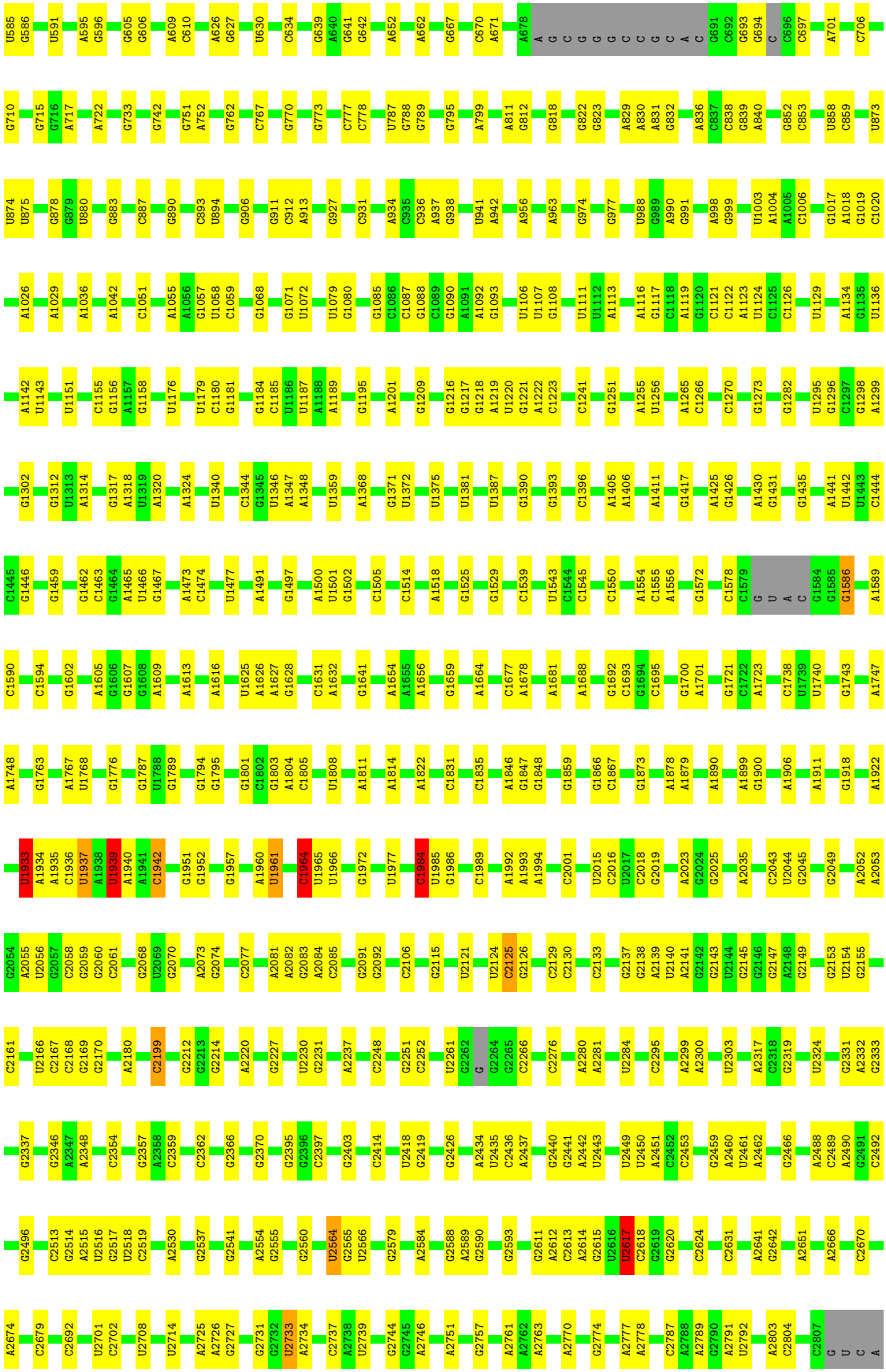
Chain A:





• Molecule 1: 23S rRNA

Chain a: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A1026 A1029 A1036 A1042 C1051 A1055 A1056 G1057 U1058 C1059 G1068 G1071 U1072 U1079 G1080 G1085 C1086 C1087 G1088 C1089 G1090 A1091 A1092 G1093 U1106 U1107 G1108 U1111 U1112 A1113 A1116 G1117 C1118 A1119 G1120 C1121 C1122 A1123 U1124 C1125 C1126 U1129 A1134 G1135 U1136
A1142 U1143 U1151 C1155 G1156 A1157 G1158 U1176 U1179 C1180 G1181 G1184 C1185 U1186 U1187 A1188 A1189 G1195 A1201 G1209 G1216 G1217 G1218 A1219 U1220 G1221 A1222 C1223 C1241 G1251 A1255 U1256 A1265 C1266 C1270 G1273 G1282 U1295 G1296 C1297 G1298 A1299
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C1445 G1446 G1459 G1462 C1463 G1464 A1465 U1466 G1467 A1473 C1474 U1477 A1491 G1497 A1500 U1501 G1502 C1505 C1514 A1518 G1525 G1529 C1539 U1543 C1544 C1545 C1550 A1554 C1555 A1556 G1572 C1578 G1579 G U A C G1584 G1585 G1586 A1589
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WORLDWIDE PDB PROTEIN DATA BANK

• Molecule 2: 5S rRNA

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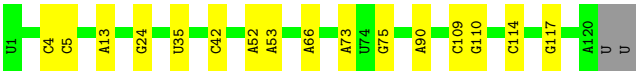
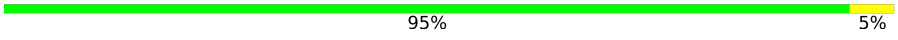


• Molecule 2: 5S rRNA

Chain b:

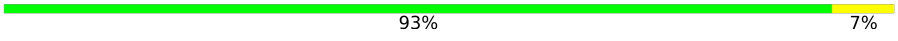
• Molecule 3: 50S ribosomal protein L2

Chain C:



• Molecule 3: 50S ribosomal protein L2

Chain c:



• Molecule 4: 50S ribosomal protein L3

Chain D:

• Molecule 4: 50S ribosomal protein L3

Chain d:

• Molecule 5: 50S ribosomal protein L4

Chain E:

• Molecule 5: 50S ribosomal protein L4

Chain e:

• Molecule 6: 50S ribosomal protein L5

Chain F:

• Molecule 6: 50S ribosomal protein L5

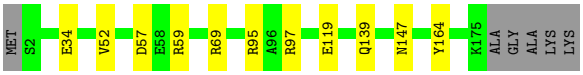
Chain f:

• Molecule 7: 50S ribosomal protein L6

Chain G:

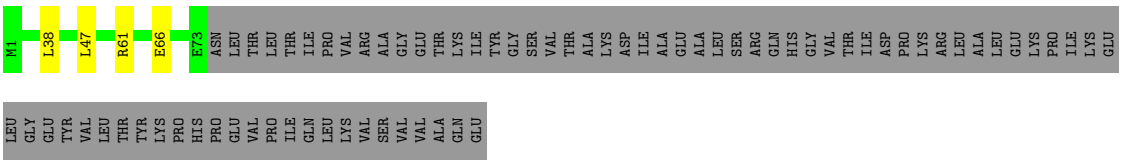
• Molecule 7: 50S ribosomal protein L6

Chain g:



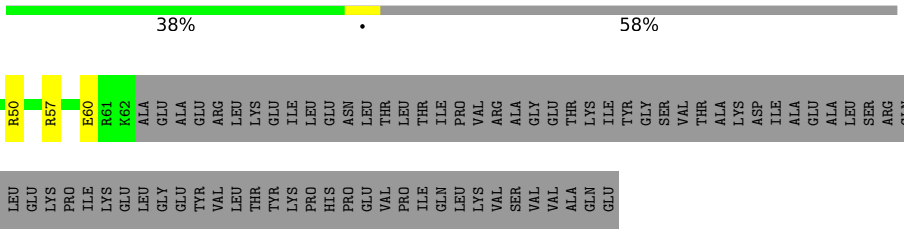
• Molecule 8: Large ribosomal subunit protein bL9

Chain H:



• Molecule 8: Large ribosomal subunit protein bL9

Chain h:

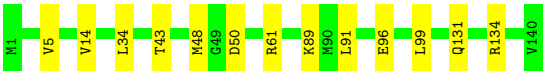


• Molecule 9: 50S ribosomal protein L13

Chain I:

• Molecule 9: 50S ribosomal protein L13

Chain i:

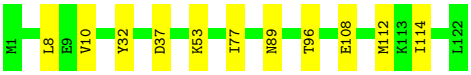


• Molecule 10: Large ribosomal subunit protein uL14

Chain J:

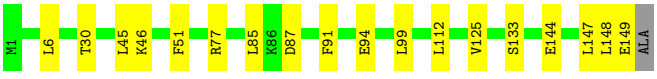
• Molecule 10: Large ribosomal subunit protein uL14

Chain j:



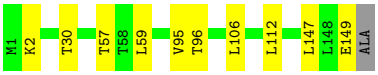
• Molecule 11: 50S ribosomal protein L15

Chain K:



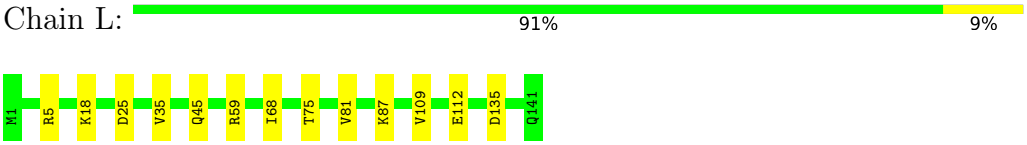
• Molecule 11: 50S ribosomal protein L15

Chain k:



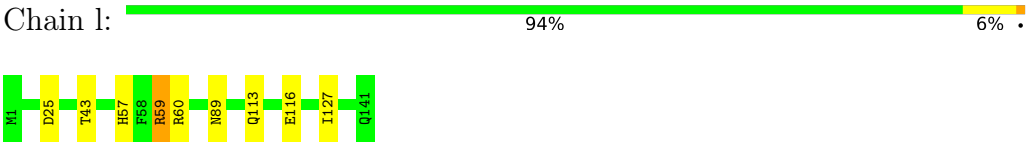
• Molecule 12: 50S ribosomal protein L16

Chain L:



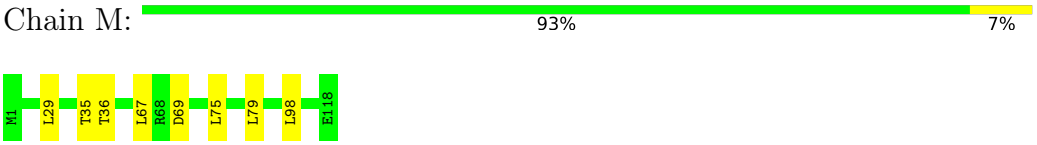
• Molecule 12: 50S ribosomal protein L16

Chain l:



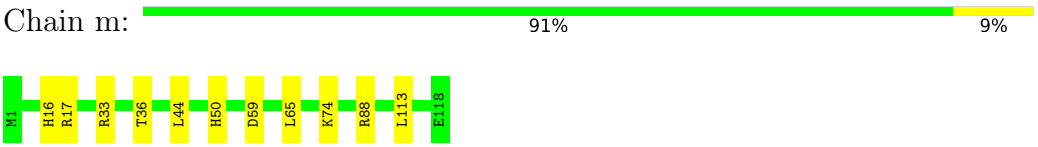
• Molecule 13: 50S ribosomal protein L17

Chain M:



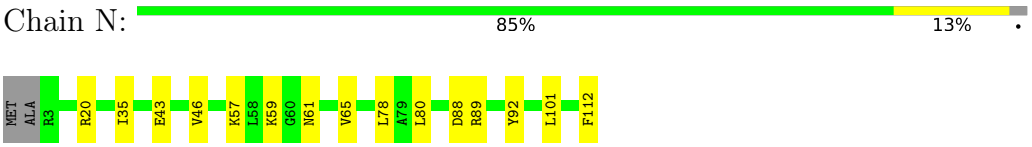
• Molecule 13: 50S ribosomal protein L17

Chain m:



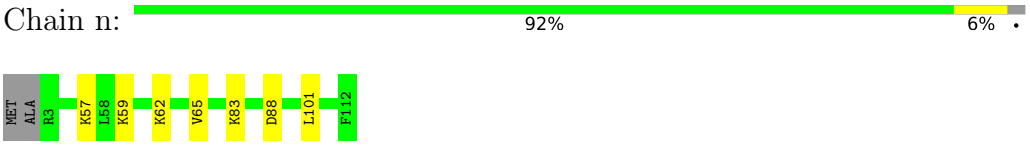
• Molecule 14: 50S ribosomal protein L18

Chain N:



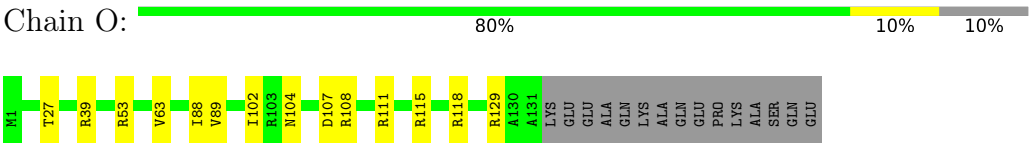
• Molecule 14: 50S ribosomal protein L18

Chain n:



• Molecule 15: 50S ribosomal protein L19

Chain O:

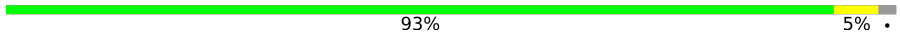


• Molecule 15: 50S ribosomal protein L19

Chain o:

• Molecule 16: 50S ribosomal protein L20

Chain P:

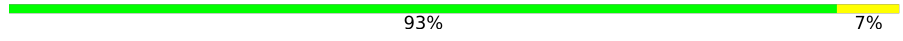


• Molecule 16: 50S ribosomal protein L20

Chain p:

• Molecule 17: 50S ribosomal protein L21

Chain Q:



• Molecule 17: 50S ribosomal protein L21

Chain q:

• Molecule 18: 50S ribosomal protein L22

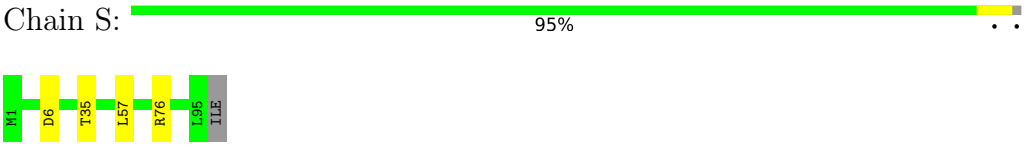
Chain R:

• Molecule 18: 50S ribosomal protein L22

Chain r:

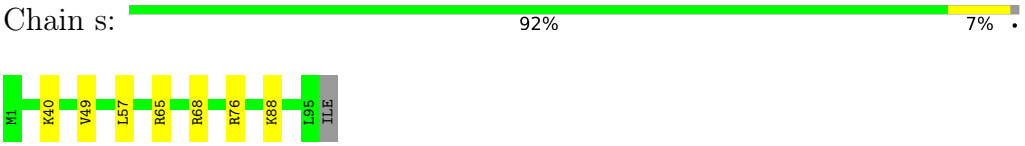
• Molecule 19: 50S ribosomal protein L23

Chain S:



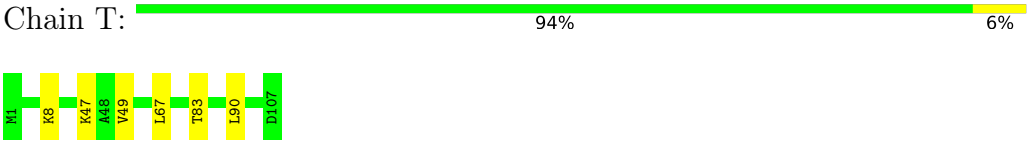
• Molecule 19: 50S ribosomal protein L23

Chain s:



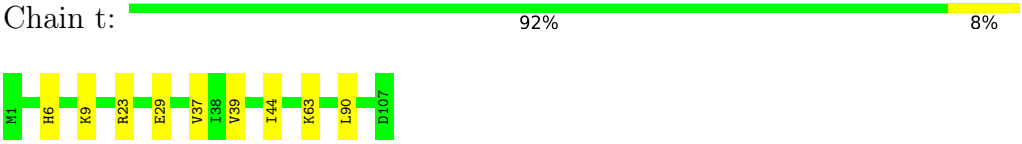
• Molecule 20: Large ribosomal subunit protein uL24

Chain T:



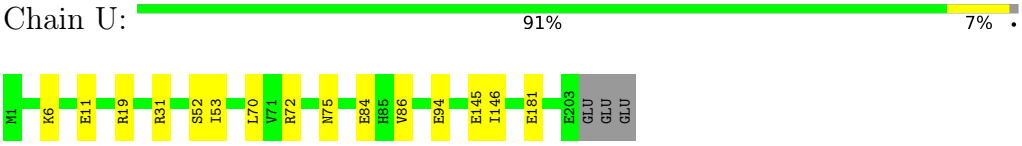
• Molecule 20: Large ribosomal subunit protein uL24

Chain t:



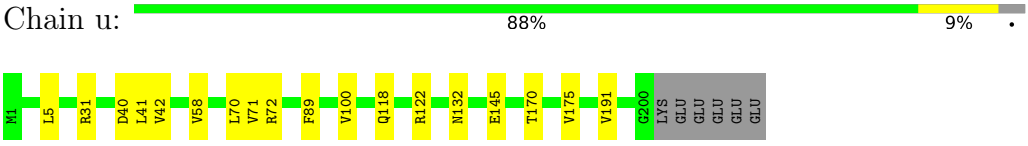
• Molecule 21: 50S ribosomal protein L25

Chain U:



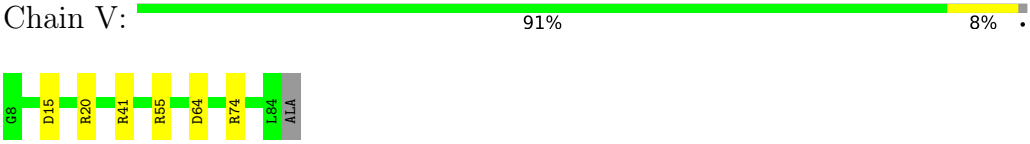
• Molecule 21: 50S ribosomal protein L25

Chain u:



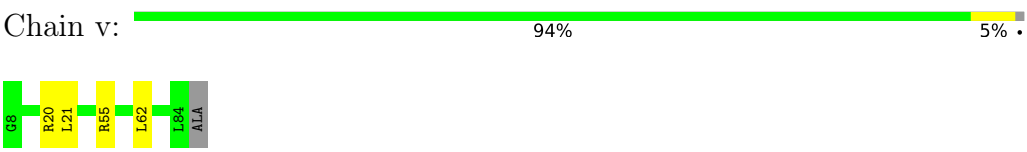
• Molecule 22: Large ribosomal subunit protein bL27

Chain V:



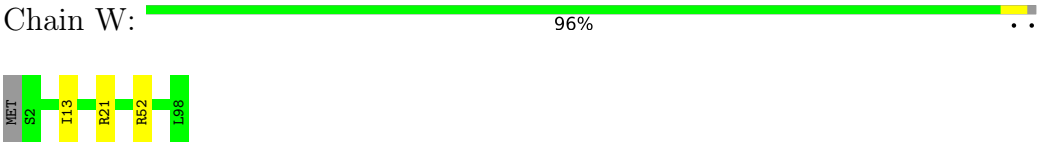
• Molecule 22: Large ribosomal subunit protein bL27

Chain v:



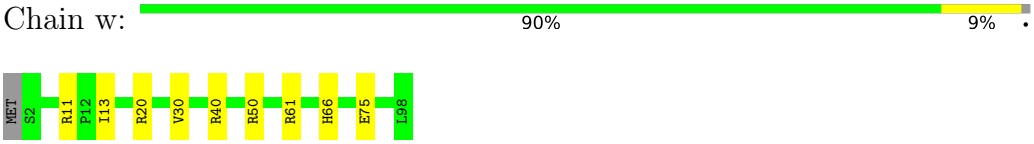
• Molecule 23: Large ribosomal subunit protein bL28

Chain W:



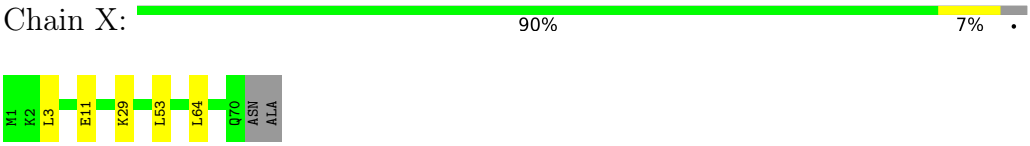
• Molecule 23: Large ribosomal subunit protein bL28

Chain w:



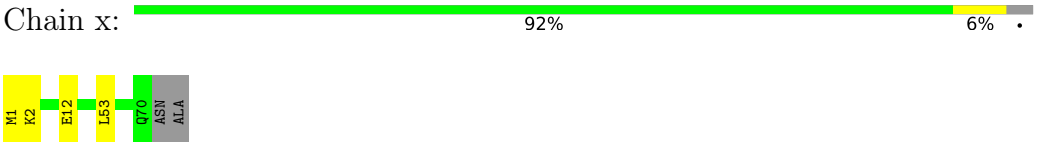
• Molecule 24: Large ribosomal subunit protein uL29

Chain X:



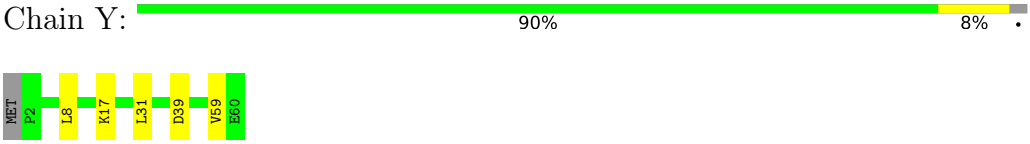
• Molecule 24: Large ribosomal subunit protein uL29

Chain x:



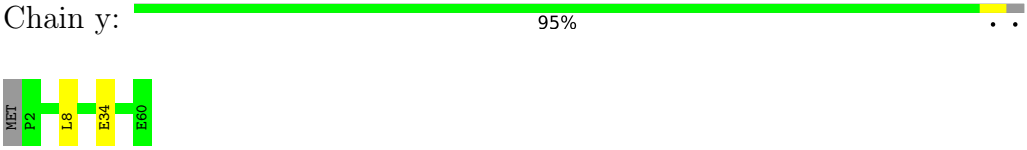
• Molecule 25: 50S ribosomal protein L30

Chain Y:



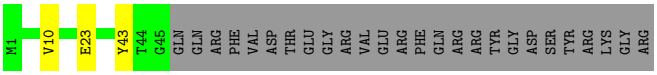
• Molecule 25: 50S ribosomal protein L30

Chain y:



• Molecule 26: 50S ribosomal protein L31

Chain Z:

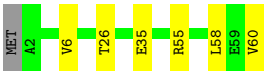


• Molecule 26: 50S ribosomal protein L31

Chain z:

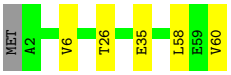
• Molecule 27: 50S ribosomal protein L32

Chain 0:



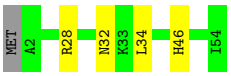
• Molecule 27: 50S ribosomal protein L32

Chain 5:



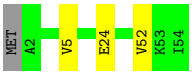
• Molecule 28: 50S ribosomal protein L33

Chain 13:



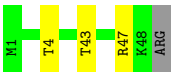
• Molecule 28: 50S ribosomal protein L33

Chain 6:



• Molecule 29: 50S ribosomal protein L34

Chain 2:

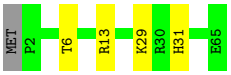


• Molecule 29: 50S ribosomal protein L34

Chain 7:

• Molecule 30: 50S ribosomal protein L35

Chain 3:

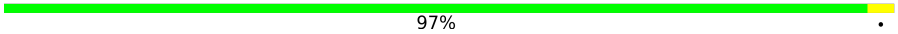


• Molecule 30: 50S ribosomal protein L35

Chain 8:

• Molecule 31: 50S ribosomal protein L36

Chain 4:



• Molecule 31: 50S ribosomal protein L36

Chain 9:

4 Data and refinement statistics (i)

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
$< I/\sigma(I) >$ [1]	5.13 (at 3.98Å)	Xtriage
Refinement program	PHENIX (1.11.1_2575: ???)	Depositor
R, R_{free}	0.296 , 0.362 0.298 , 0.361	Depositor DCC
R_{free} test set	284300 reflections (0.60%)	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)	0.10 , 162.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.37$, $< L^2 > = 0.19$	Xtriage
Estimated twinning fraction	0.180 for h,-k,-l	Xtriage
F_o,F_c correlation	0.78	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.*

[1] Intensities estimated from amplitudes.

[2] Theoretical values of $< |L| >$, $< L^2 >$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: PSU, ZN, 2MA, 2MU, 5MU, 5MC, 4OC, MG

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|>5$	RMSZ	#$\|Z\|>5$
1	A	0.21	0/69028	0.83	45/107742 (0.0%)
1	a	0.21	0/69028	0.83	29/107742 (0.0%)
2	B	0.23	0/2876	0.87	4/4486 (0.1%)
2	b	0.19	0/2876	0.82	2/4486 (0.0%)
3	C	0.24	0/2181	0.44	0/2940
3	c	0.25	0/2181	0.44	0/2940
4	D	0.24	0/1592	0.45	0/2149
4	d	0.25	0/1592	0.47	0/2149
5	E	0.23	0/1619	0.40	0/2193
5	e	0.24	0/1619	0.41	0/2193
6	F	0.24	0/1451	0.43	0/1961
6	f	0.25	0/1451	0.42	0/1961
7	G	0.25	0/1356	0.43	0/1834
7	g	0.24	0/1356	0.42	0/1834
8	H	0.23	0/559	0.41	0/754
8	h	0.24	0/482	0.45	0/650
9	I	0.23	0/1148	0.41	0/1547
9	i	0.23	0/1148	0.41	0/1547
10	J	0.26	0/943	0.46	0/1269
10	j	0.25	0/943	0.45	0/1269
11	K	0.26	0/1152	0.46	0/1533
11	k	0.25	0/1152	0.44	0/1533
12	L	0.26	0/1143	0.46	0/1527
12	l	0.29	0/1143	0.51	1/1527 (0.1%)
13	M	0.24	0/982	0.44	0/1312
13	m	0.22	0/982	0.42	0/1312
14	N	0.24	0/887	0.42	0/1180
14	n	0.24	0/887	0.41	0/1180
15	O	0.24	0/1105	0.43	0/1477
15	o	0.23	0/1105	0.43	0/1477
16	P	0.24	0/977	0.37	0/1301
16	p	0.24	0/977	0.37	0/1301

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	Q	0.24	0/786	0.47	0/1053
17	q	0.24	0/786	0.45	0/1053
18	R	0.23	0/897	0.40	0/1205
18	r	0.24	0/897	0.44	0/1205
19	S	0.24	0/764	0.44	0/1025
19	s	0.24	0/764	0.45	0/1025
20	T	0.25	0/823	0.44	0/1099
20	t	0.24	0/823	0.44	0/1099
21	U	0.25	0/1620	0.45	0/2200
21	u	0.24	0/1593	0.43	0/2165
22	V	0.24	0/616	0.44	0/821
22	v	0.24	0/616	0.45	0/821
23	W	0.24	0/761	0.43	0/1013
23	w	0.24	0/761	0.44	0/1013
24	X	0.23	0/590	0.39	0/781
24	x	0.23	0/590	0.38	0/781
25	Y	0.23	0/474	0.42	0/635
25	y	0.26	0/474	0.41	0/635
26	Z	0.24	0/353	0.38	0/479
26	z	0.25	0/395	0.41	0/536
27	0	0.23	0/473	0.43	0/639
27	5	0.23	0/473	0.41	0/639
28	13	0.24	0/460	0.43	0/613
28	6	0.22	0/460	0.44	0/613
29	2	0.22	0/426	0.40	0/561
29	7	0.22	0/426	0.39	0/561
30	3	0.23	0/525	0.43	0/691
30	8	0.24	0/525	0.42	0/691
31	4	0.21	0/310	0.41	0/407
31	9	0.22	0/310	0.40	0/407
All	All	0.22	0/197692	0.75	81/296772 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
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.

All (81) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	146	G	N3-C4-N9	-8.30	121.02	126.00
1	A	2159	C	C2-N1-C1'	8.18	127.79	118.80
1	a	1359	U	C2-N1-C1'	7.75	127.00	117.70
1	A	2159	C	N1-C2-O2	7.70	123.52	118.90
1	a	894	U	C2-N1-C1'	7.41	126.60	117.70
2	B	117	G	N3-C4-N9	-7.19	121.69	126.00
1	A	971	C	C2-N1-C1'	7.18	126.70	118.80
1	A	1359	U	C2-N1-C1'	7.10	126.22	117.70
1	A	2159	C	N3-C2-O2	-7.08	116.95	121.90
2	B	117	G	C5-C6-O6	7.03	132.82	128.60
1	A	1578	C	C6-N1-C2	-6.96	117.52	120.30
1	a	1359	U	N1-C2-O2	6.70	127.49	122.80
1	a	894	U	N1-C2-O2	6.66	127.47	122.80
1	A	894	U	C2-N1-C1'	6.59	125.60	117.70
1	a	1359	U	N3-C2-O2	-6.56	117.61	122.20
1	a	1209	G	N3-C4-N9	-6.44	122.14	126.00
1	a	295	C	C2-N1-C1'	6.36	125.80	118.80
2	b	4	C	N3-C2-O2	-6.31	117.48	121.90
1	a	894	U	N3-C2-O2	-6.24	117.83	122.20
1	A	146	G	N9-C4-C5	6.19	107.88	105.40
1	a	2496	G	N1-C6-O6	-6.17	116.20	119.90
1	A	2159	C	C6-N1-C2	-6.17	117.83	120.30
1	a	1805	C	N3-C2-O2	-6.16	117.59	121.90
1	A	2025	G	N3-C4-N9	-6.13	122.32	126.00
1	A	1810	U	C2-N1-C1'	6.11	125.03	117.70
1	A	1237	G	N1-C6-O6	-6.00	116.30	119.90
1	A	1237	G	C5-C6-O6	5.99	132.19	128.60
1	A	132	C	N1-C2-N3	5.99	123.39	119.20
1	A	971	C	C6-N1-C1'	-5.99	113.61	120.80
2	B	5	C	N3-C2-O2	-5.93	117.75	121.90
1	A	2492	C	N3-C2-O2	-5.83	117.82	121.90
1	A	1810	U	N1-C2-O2	5.81	126.87	122.80
1	A	132	C	N3-C2-O2	-5.75	117.87	121.90
1	A	1732	C	C6-N1-C2	-5.74	118.00	120.30
1	A	894	U	N1-C2-O2	5.66	126.76	122.80
1	a	389	G	N3-C4-N9	5.66	129.39	126.00
12	l	60	ARG	NE-CZ-NH1	-5.65	117.48	120.30
1	A	1462	G	O4'-C1'-N9	5.64	112.71	108.20
1	A	1280	U	C2-N1-C1'	5.64	124.47	117.70
2	b	3	C	N1-C2-O2	5.63	122.28	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	2688	C	N3-C2-O2	-5.61	117.98	121.90
1	a	789	G	C5-C6-O6	5.60	131.96	128.60
1	A	1578	C	N3-C2-O2	-5.57	118.00	121.90
2	B	117	G	N9-C4-C5	5.57	107.63	105.40
1	A	1359	U	N1-C2-O2	5.45	126.61	122.80
1	A	726	C	N3-C2-O2	-5.43	118.09	121.90
1	A	132	C	C2-N3-C4	-5.43	117.19	119.90
1	A	304	C	C2-N1-C1'	5.43	124.77	118.80
1	A	1732	C	N3-C2-O2	-5.41	118.11	121.90
1	A	1359	U	N3-C2-O2	-5.40	118.42	122.20
1	a	1805	C	N1-C2-O2	5.40	122.14	118.90
1	a	2590	G	N1-C6-O6	-5.40	116.66	119.90
1	a	2125	C	C2-N1-C1'	5.39	124.73	118.80
1	A	2159	C	C6-N1-C1'	-5.37	114.36	120.80
1	A	894	U	N3-C2-O2	-5.36	118.45	122.20
1	A	1810	U	N3-C2-O2	-5.35	118.45	122.20
1	A	1444	C	C2-N1-C1'	5.29	124.62	118.80
1	a	2590	G	C5-C6-O6	5.29	131.78	128.60
1	a	2496	G	C5-C6-O6	5.29	131.77	128.60
1	a	1543	U	C2-N1-C1'	5.27	124.02	117.70
1	A	1280	U	N1-C2-O2	5.24	126.47	122.80
1	a	1586	G	N1-C6-O6	-5.22	116.77	119.90
1	a	2143	G	N3-C4-N9	5.21	129.13	126.00
1	a	1545	C	C2-N1-C1'	5.21	124.53	118.80
1	A	1705	C	N1-C2-N3	5.21	122.84	119.20
1	a	605	G	N3-C4-N9	5.20	129.12	126.00
1	a	2276	C	C2-N3-C4	-5.17	117.31	119.90
1	a	789	G	N3-C4-N9	-5.17	122.90	126.00
1	a	2733	U	C2-N1-C1'	5.17	123.90	117.70
1	A	146	G	C4-C5-N7	-5.14	108.75	110.80
1	A	1217	G	N3-C4-N9	5.10	129.06	126.00
1	a	2199	C	C2-N1-C1'	5.09	124.40	118.80
1	A	2840	G	N3-C4-N9	-5.08	122.95	126.00
1	A	2840	G	C6-C5-N7	5.05	133.43	130.40
1	A	2840	G	N9-C4-C5	5.05	107.42	105.40
1	a	1359	U	C6-N1-C1'	-5.03	114.16	121.20
1	A	146	G	N3-C4-C5	5.01	131.11	128.60
1	A	132	C	C6-N1-C2	-5.01	118.30	120.30
1	a	50	G	O4'-C1'-N9	5.01	112.20	108.20
1	a	1209	G	C8-N9-C1'	5.00	133.50	127.00
1	A	1162	C	C2-N1-C1'	5.00	124.30	118.80

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)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
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%)	19	55
12	l	139/141 (99%)	134 (96%)	4 (3%)	1 (1%)	19	55
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

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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
20	t	105/107 (98%)	100 (95%)	5 (5%)	0	100	100
21	U	201/206 (98%)	193 (96%)	7 (4%)	1 (0%)	25	61
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

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Mol	Chain	Res	Type
21	U	53	ILE

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
3	C	214/218 (98%)	200 (94%)	14 (6%)	14 37
3	c	214/218 (98%)	196 (92%)	18 (8%)	9 31
4	D	164/166 (99%)	148 (90%)	16 (10%)	6 23
4	d	164/166 (99%)	147 (90%)	17 (10%)	5 22
5	E	160/166 (96%)	148 (92%)	12 (8%)	11 33
5	e	160/166 (96%)	144 (90%)	16 (10%)	6 23
6	F	144/156 (92%)	130 (90%)	14 (10%)	6 24
6	f	144/156 (92%)	131 (91%)	13 (9%)	8 27
7	G	144/148 (97%)	134 (93%)	10 (7%)	13 36
7	g	144/148 (97%)	133 (92%)	11 (8%)	11 33
8	H	55/124 (44%)	51 (93%)	4 (7%)	11 34
8	h	49/124 (40%)	43 (88%)	6 (12%)	4 19
9	I	119/119 (100%)	107 (90%)	12 (10%)	6 23
9	i	119/119 (100%)	106 (89%)	13 (11%)	5 21
10	J	100/100 (100%)	88 (88%)	12 (12%)	4 19
10	j	100/100 (100%)	89 (89%)	11 (11%)	5 21
11	K	115/116 (99%)	97 (84%)	18 (16%)	2 14
11	k	115/116 (99%)	105 (91%)	10 (9%)	8 29
12	L	111/111 (100%)	99 (89%)	12 (11%)	5 22
12	l	111/111 (100%)	103 (93%)	8 (7%)	12 35
13	M	101/101 (100%)	93 (92%)	8 (8%)	10 33
13	m	101/101 (100%)	90 (89%)	11 (11%)	5 21
14	N	87/88 (99%)	72 (83%)	15 (17%)	1 11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
14	n	87/88 (99%)	80 (92%)	7 (8%)	10 32
15	O	115/127 (91%)	101 (88%)	14 (12%)	4 19
15	o	115/127 (91%)	100 (87%)	15 (13%)	3 17
16	P	93/94 (99%)	87 (94%)	6 (6%)	14 37
16	p	93/94 (99%)	84 (90%)	9 (10%)	6 24
17	Q	81/82 (99%)	74 (91%)	7 (9%)	8 30
17	q	81/82 (99%)	70 (86%)	11 (14%)	3 17
18	R	90/92 (98%)	79 (88%)	11 (12%)	4 19
18	r	90/92 (98%)	79 (88%)	11 (12%)	4 19
19	S	77/78 (99%)	73 (95%)	4 (5%)	19 43
19	s	77/78 (99%)	70 (91%)	7 (9%)	7 26
20	T	86/88 (98%)	80 (93%)	6 (7%)	12 35
20	t	86/88 (98%)	77 (90%)	9 (10%)	5 22
21	U	169/179 (94%)	155 (92%)	14 (8%)	9 31
21	u	166/179 (93%)	148 (89%)	18 (11%)	5 22
22	V	61/62 (98%)	55 (90%)	6 (10%)	6 23
22	v	61/62 (98%)	57 (93%)	4 (7%)	14 37
23	W	79/83 (95%)	76 (96%)	3 (4%)	28 51
23	w	79/83 (95%)	70 (89%)	9 (11%)	4 20
24	X	65/67 (97%)	60 (92%)	5 (8%)	10 33
24	x	65/67 (97%)	61 (94%)	4 (6%)	15 38
25	Y	51/52 (98%)	46 (90%)	5 (10%)	6 23
25	y	51/52 (98%)	49 (96%)	2 (4%)	27 50
26	Z	39/63 (62%)	36 (92%)	3 (8%)	10 33
26	z	43/63 (68%)	40 (93%)	3 (7%)	12 35
27	0	51/52 (98%)	45 (88%)	6 (12%)	4 19
27	5	51/52 (98%)	46 (90%)	5 (10%)	6 23
28	13	51/52 (98%)	47 (92%)	4 (8%)	10 33
28	6	51/52 (98%)	48 (94%)	3 (6%)	16 40
29	2	41/42 (98%)	38 (93%)	3 (7%)	11 34
29	7	41/42 (98%)	36 (88%)	5 (12%)	4 19

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
30	3	54/55 (98%)	50 (93%)	4 (7%)	11 34
30	8	54/55 (98%)	50 (93%)	4 (7%)	11 34
31	4	34/34 (100%)	33 (97%)	1 (3%)	37 58
31	9	34/34 (100%)	28 (82%)	6 (18%)	1 10
All	All	5497/5830 (94%)	4982 (91%)	515 (9%)	7 25

All (515) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
3	C	28	GLU
3	C	37	LEU
3	C	99	ASP
3	C	101	GLU
3	C	113	VAL
3	C	122	ASP
3	C	143	HIS
3	C	173	VAL
3	C	175	LEU
3	C	182	LEU
3	C	193	VAL
3	C	220	HIS
3	C	242	ARG
3	C	257	LEU
4	D	7	VAL
4	D	9	VAL
4	D	21	VAL
4	D	38	THR
4	D	40	GLU
4	D	55	ASN
4	D	77	ILE
4	D	92	THR
4	D	104	VAL
4	D	119	ARG
4	D	137	HIS
4	D	143	ASN
4	D	144	ARG
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	172	TRP
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	146	TYR
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	59	ARG
7	G	69	ARG
7	G	77	LYS
7	G	95	ARG
7	G	105	LEU
7	G	116	GLU
8	H	38	LEU
8	H	47	LEU
8	H	61	ARG
8	H	66	GLU
9	I	17	ASP
9	I	33	LEU
9	I	45	ASN
9	I	61	ARG

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Mol	Chain	Res	Type
9	I	62	VAL
9	I	67	LEU
9	I	96	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	17	ARG
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	51	PHE
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
11	K	147	LEU
11	K	148	LEU
11	K	149	GLU
12	L	5	ARG
12	L	18	LYS
12	L	25	ASP
12	L	35	VAL

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Mol	Chain	Res	Type
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	135	ASP
13	M	29	LEU
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
14	N	20	ARG
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
14	N	112	PHE
15	O	27	THR
15	O	39	ARG
15	O	53	ARG
15	O	63	VAL
15	O	88	ILE
15	O	89	VAL
15	O	102	ILE
15	O	104	ASN
15	O	107	ASP
15	O	108	ARG
15	O	111	ARG

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Mol	Chain	Res	Type
15	O	115	ARG
15	O	118	ARG
15	O	129	ARG
16	P	17	ILE
16	P	69	CYS
16	P	74	LEU
16	P	90	VAL
16	P	104	GLN
16	P	108	GLU
17	Q	12	TYR
17	Q	19	LYS
17	Q	21	ARG
17	Q	25	LEU
17	Q	37	VAL
17	Q	43	GLU
17	Q	51	VAL
18	R	4	LYS
18	R	11	ARG
18	R	17	VAL
18	R	20	VAL
18	R	23	LEU
18	R	51	LEU
18	R	64	MET
18	R	70	TYR
18	R	78	GLU
18	R	94	ASP
18	R	99	ARG
19	S	6	ASP
19	S	35	THR
19	S	57	LEU
19	S	76	ARG
20	T	8	LYS
20	T	47	LYS
20	T	49	VAL
20	T	67	LEU
20	T	83	THR
20	T	90	LEU
21	U	6	LYS
21	U	11	GLU
21	U	19	ARG
21	U	31	ARG
21	U	52	SER

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Mol	Chain	Res	Type
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	181	GLU
22	V	15	ASP
22	V	20	ARG
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	64	LEU
25	Y	8	LEU
25	Y	17	LYS
25	Y	31	LEU
25	Y	39	ASP
25	Y	59	VAL
26	Z	10	VAL
26	Z	23	GLU
26	Z	43	TYR
27	0	6	VAL
27	0	26	THR
27	0	35	GLU
27	0	55	ARG
27	0	58	LEU
27	0	60	VAL
28	13	28	ARG
28	13	32	ASN
28	13	34	LEU
28	13	46	HIS
29	2	4	THR

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Mol	Chain	Res	Type
29	2	43	THR
29	2	47	ARG
30	3	6	THR
30	3	13	ARG
30	3	29	LYS
30	3	31	HIS
31	4	26	ILE
3	c	6	PHE
3	c	20	ASP
3	c	23	GLU
3	c	25	THR
3	c	88	ARG
3	c	94	LEU
3	c	105	ILE
3	c	122	ASP
3	c	134	ARG
3	c	175	LEU
3	c	193	VAL
3	c	203	ASN
3	c	211	ARG
3	c	220	HIS
3	c	231	HIS
3	c	242	ARG
3	c	263	ARG
3	c	275	LYS
4	d	12	THR
4	d	21	VAL
4	d	31	CYS
4	d	33	VAL
4	d	49	LEU
4	d	60	ASN
4	d	73	GLU
4	d	82	ARG
4	d	113	PHE
4	d	116	VAL
4	d	117	MET
4	d	127	ASP
4	d	145	LYS
4	d	159	HIS
4	d	169	ASN
4	d	182	LEU
4	d	188	VAL

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Mol	Chain	Res	Type
5	e	13	SER
5	e	19	GLU
5	e	20	LEU
5	e	23	ASP
5	e	46	ARG
5	e	51	THR
5	e	68	LYS
5	e	69	HIS
5	e	78	ILE
5	e	88	VAL
5	e	106	ARG
5	e	168	ARG
5	e	192	LEU
5	e	193	VAL
5	e	201	VAL
5	e	205	ARG
6	f	9	ARG
6	f	43	LEU
6	f	53	LEU
6	f	79	ASN
6	f	81	LYS
6	f	86	MET
6	f	117	PHE
6	f	124	SER
6	f	133	LEU
6	f	143	GLU
6	f	153	ARG
6	f	156	ASP
6	f	170	ARG
7	g	34	GLU
7	g	52	VAL
7	g	57	ASP
7	g	59	ARG
7	g	69	ARG
7	g	95	ARG
7	g	97	ARG
7	g	119	GLU
7	g	139	GLN
7	g	147	ASN
7	g	164	TYR
8	h	2	LYS
8	h	25	TYR

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Mol	Chain	Res	Type
8	h	38	LEU
8	h	50	ARG
8	h	57	ARG
8	h	60	GLU
9	i	5	VAL
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	89	LYS
9	i	91	LEU
9	i	96	GLU
9	i	99	LEU
9	i	131	GLN
9	i	134	ARG
10	j	8	LEU
10	j	10	VAL
10	j	32	TYR
10	j	37	ASP
10	j	53	LYS
10	j	77	ILE
10	j	89	ASN
10	j	96	THR
10	j	108	GLU
10	j	112	MET
10	j	114	ILE
11	k	2	LYS
11	k	30	THR
11	k	57	THR
11	k	59	LEU
11	k	95	VAL
11	k	96	THR
11	k	106	LEU
11	k	112	LEU
11	k	147	LEU
11	k	149	GLU
12	l	25	ASP
12	l	43	THR
12	l	57	HIS
12	l	59	ARG

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Mol	Chain	Res	Type
12	l	89	ASN
12	l	113	GLN
12	l	116	GLU
12	l	127	ILE
13	m	16	HIS
13	m	17	ARG
13	m	33	ARG
13	m	36	THR
13	m	44	LEU
13	m	50	HIS
13	m	59	ASP
13	m	65	LEU
13	m	74	LYS
13	m	88	ARG
13	m	113	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	13	ARG
15	o	15	VAL
15	o	16	ARG
15	o	21	GLU
15	o	29	ARG
15	o	41	ARG
15	o	57	PHE
15	o	58	ASN
15	o	61	PHE
15	o	74	ARG
15	o	84	GLN
15	o	86	ILE
15	o	89	VAL
15	o	102	ILE
15	o	108	ARG
16	p	5	LYS
16	p	8	VAL
16	p	33	ARG
16	p	36	ARG
16	p	37	GLU

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Mol	Chain	Res	Type
16	p	57	PHE
16	p	59	ARG
16	p	60	LEU
16	p	74	LEU
17	q	18	LEU
17	q	26	ASP
17	q	39	LEU
17	q	44	LYS
17	q	51	VAL
17	q	53	GLU
17	q	60	GLU
17	q	62	LEU
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	20	VAL
18	r	36	LEU
18	r	37	ARG
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	76	ARG
19	s	88	LYS
20	t	6	HIS
20	t	9	LYS
20	t	23	ARG
20	t	29	GLU
20	t	37	VAL
20	t	39	VAL
20	t	44	ILE
20	t	63	LYS
20	t	90	LEU

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Mol	Chain	Res	Type
21	u	5	LEU
21	u	31	ARG
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	122	ARG
21	u	132	ASN
21	u	145	GLU
21	u	170	THR
21	u	175	VAL
21	u	191	VAL
22	v	20	ARG
22	v	21	LEU
22	v	55	ARG
22	v	62	LEU
23	w	11	ARG
23	w	13	ILE
23	w	20	ARG
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
25	y	8	LEU
25	y	34	GLU
26	z	18	CYS
26	z	34	GLU
26	z	43	TYR
27	5	6	VAL
27	5	26	THR

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Mol	Chain	Res	Type
27	5	35	GLU
27	5	58	LEU
27	5	60	VAL
28	6	5	VAL
28	6	24	GLU
28	6	52	VAL
29	7	1	MET
29	7	10	ARG
29	7	24	THR
29	7	46	VAL
29	7	47	ARG
30	8	29	LYS
30	8	31	HIS
30	8	33	ASN
30	8	60	LEU
31	9	7	VAL
31	9	12	ASP
31	9	18	ARG
31	9	19	ARG
31	9	28	GLU
31	9	35	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (9) such sidechains are listed below:

Mol	Chain	Res	Type
11	K	9	ASN
21	U	32	HIS
31	4	32	HIS
6	f	130	ASN
12	l	45	GLN
16	p	94	ASN
23	w	47	GLN
25	y	32	GLN
27	5	23	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	A	2860/2915 (98%)	691 (24%)	31 (1%)
1	a	2859/2915 (98%)	674 (23%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
2	B	119/122 (97%)	14 (11%)	0
2	b	119/122 (97%)	24 (20%)	0
All	All	5957/6074 (98%)	1403 (23%)	31 (0%)

All (1403) 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
1	A	183	G
1	A	185	A
1	A	188	A

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Mol	Chain	Res	Type
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
1	A	414	U
1	A	415	G
1	A	423	G

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Mol	Chain	Res	Type
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
1	A	595	A
1	A	596	G
1	A	597	C

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Mol	Chain	Res	Type
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
1	A	784	C
1	A	787	U
1	A	791	G

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Mol	Chain	Res	Type
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
1	A	960	C
1	A	976	G
1	A	977	G

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Mol	Chain	Res	Type
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
1	A	1111	U
1	A	1113	A
1	A	1114	G

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Mol	Chain	Res	Type
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
1	A	1273	G
1	A	1280	U
1	A	1282	G

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Mol	Chain	Res	Type
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
1	A	1441	A
1	A	1442	U
1	A	1444	C

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Mol	Chain	Res	Type
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
1	A	1606	G
1	A	1607	G
1	A	1612	C

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Mol	Chain	Res	Type
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
1	A	1811	A
1	A	1812	C
1	A	1813	C

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Mol	Chain	Res	Type
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	1943	G
1	A	1946	C
1	A	1951	G
1	A	1952	G
1	A	1955	G
1	A	1957	G
1	A	1958	A
1	A	1959	A

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Mol	Chain	Res	Type
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
1	A	2077	C
1	A	2078	G
1	A	2079	A
1	A	2081	A

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Mol	Chain	Res	Type
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
1	A	2226	C
1	A	2227	G
1	A	2229	A
1	A	2231	G

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Mol	Chain	Res	Type
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
1	A	2434	A
1	A	2437	A
1	A	2438	A
1	A	2440	G

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Mol	Chain	Res	Type
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	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	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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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	1939	PSU
1	a	1940	A
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
1	a	2492	C
1	a	2513	C
1	a	2514	G
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

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Mol	Chain	Res	Type
1	a	2554	A
1	a	2555	G
1	a	2560	G
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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
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

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Mol	Chain	Res	Type
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 (i)

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	1939	1	18,21,22	2.25	7 (38%)	22,30,33	1.79	3 (13%)
1	4OC	a	1942	1	19,22,24	1.78	4 (21%)	26,31,35	1.23	5 (19%)
1	5MC	a	1984	1	18,22,23	1.95	4 (22%)	26,32,35	1.22	2 (7%)
1	2MU	a	2564	1	19,22,24	4.96	14 (73%)	26,31,36	2.40	10 (38%)
1	5MU	a	1937	1	19,22,23	1.95	7 (36%)	28,32,35	2.20	6 (21%)
1	5MC	A	1984	1	18,22,23	1.85	4 (22%)	26,32,35	1.19	1 (3%)
1	PSU	A	1939	1	18,21,22	2.30	7 (38%)	22,30,33	1.69	3 (13%)
1	2MA	a	2515	1,32	17,25,26	1.40	2 (11%)	17,37,40	1.16	2 (11%)
1	PSU	a	1933	1	18,21,22	2.33	7 (38%)	22,30,33	1.73	3 (13%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
1	5MU	A	1937	1	19,22,23	1.98	7 (36%)	28,32,35	2.25	6 (21%)
1	PSU	A	2617	1	18,21,22	2.32	6 (33%)	22,30,33	1.71	3 (13%)
1	5MC	a	1964	1	18,22,23	1.85	4 (22%)	26,32,35	1.26	3 (11%)
1	PSU	A	1933	1	18,21,22	2.35	7 (38%)	22,30,33	1.71	4 (18%)
1	5MU	a	1961	1	19,22,23	1.95	7 (36%)	28,32,35	2.31	8 (28%)
1	4OC	A	1942	1	19,22,24	1.79	4 (21%)	26,31,35	1.23	4 (15%)
1	2MU	A	2564	1,32	19,22,24	4.97	13 (68%)	26,31,36	2.17	9 (34%)
1	5MC	A	1964	1,32	18,22,23	1.86	4 (22%)	26,32,35	1.21	1 (3%)
1	5MU	A	1961	1	19,22,23	1.97	7 (36%)	28,32,35	2.28	8 (28%)
1	PSU	a	2617	1	18,21,22	2.30	7 (38%)	22,30,33	1.78	3 (13%)
1	2MA	A	2515	1,32	17,25,26	1.42	2 (11%)	17,37,40	1.18	2 (11%)

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	1939	1	3/3/5/5	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
1	5MC	a	1984	1	2/2/5/5	2/7/25/26	0/2/2/2
1	2MU	a	2564	1	2/2/5/5	5/9/27/28	0/2/2/2
1	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	4/7/25/26	0/2/2/2
1	2MA	a	2515	1,32	1/1/5/5	2/3/25/26	0/3/3/3
1	PSU	a	1933	1	3/3/5/5	5/7/25/26	0/2/2/2
1	5MU	A	1937	1	1/1/5/5	0/7/25/26	0/2/2/2
1	PSU	A	2617	1	3/3/5/5	7/7/25/26	0/2/2/2
1	5MC	a	1964	1	2/2/5/5	0/7/25/26	0/2/2/2
1	PSU	A	1933	1	3/3/5/5	5/7/25/26	0/2/2/2
1	5MU	a	1961	1	1/1/5/5	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	2MU	A	2564	1,32	2/2/5/5	5/9/27/28	0/2/2/2
1	5MC	A	1964	1,32	2/2/5/5	2/7/25/26	0/2/2/2
1	5MU	A	1961	1	1/1/5/5	2/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
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	1/3/25/26	0/3/3/3

All (124) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	2564	2MU	O4-C4	11.34	1.46	1.24
1	A	2564	2MU	O4-C4	11.33	1.46	1.24
1	A	2564	2MU	C3'-C4'	-9.15	1.29	1.53
1	a	2564	2MU	C2'-C1'	-9.09	1.29	1.53
1	A	2564	2MU	C2'-C1'	-9.07	1.29	1.53
1	a	2564	2MU	C3'-C4'	-9.03	1.29	1.53
1	A	2564	2MU	C3'-C2'	6.19	1.66	1.52
1	a	2564	2MU	C3'-C2'	6.06	1.66	1.52
1	a	1984	5MC	C4-N4	5.67	1.48	1.34
1	A	2564	2MU	O4'-C1'	5.66	1.55	1.42
1	A	1964	5MC	C4-N4	5.57	1.48	1.34
1	a	1964	5MC	C4-N4	5.54	1.48	1.34
1	a	2564	2MU	O4'-C1'	5.53	1.55	1.42
1	A	1984	5MC	C4-N4	5.50	1.48	1.34
1	a	2564	2MU	O4'-C4'	5.19	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	-5.14	1.13	1.23
1	a	1939	PSU	O4-C4	-5.12	1.13	1.23
1	a	2617	PSU	O4-C4	-5.11	1.13	1.23
1	A	1939	PSU	O4-C4	-5.11	1.13	1.23
1	A	2564	2MU	O4'-C4'	5.03	1.56	1.45
1	A	1942	4OC	C4-N4	4.91	1.45	1.33
1	a	1942	4OC	C4-N4	4.91	1.45	1.33
1	A	1933	PSU	C2-N1	-4.57	1.30	1.36
1	A	2617	PSU	C2-N1	-4.50	1.30	1.36
1	a	2617	PSU	C2-N1	-4.47	1.30	1.36
1	A	1939	PSU	C2-N1	-4.43	1.30	1.36
1	a	1933	PSU	C2-N1	-4.40	1.30	1.36
1	a	1939	PSU	C2-N1	-4.26	1.31	1.36
1	a	2515	2MA	C6-N6	4.14	1.45	1.28
1	A	2515	2MA	C6-N6	4.10	1.45	1.28
1	A	1937	5MU	C6-C5	3.82	1.40	1.34
1	A	2564	2MU	C4-N3	-3.79	1.31	1.38
1	A	1961	5MU	C6-C5	3.78	1.40	1.34
1	a	2564	2MU	C4-N3	-3.71	1.31	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	1937	5MU	C6-C5	3.69	1.40	1.34
1	a	1961	5MU	C6-C5	3.66	1.40	1.34
1	A	2617	PSU	C6-C5	3.58	1.39	1.35
1	a	1933	PSU	C6-C5	3.58	1.39	1.35
1	a	1984	5MC	C6-C5	3.49	1.40	1.34
1	a	1939	PSU	C6-C5	3.48	1.39	1.35
1	A	1933	PSU	C6-C5	3.45	1.39	1.35
1	a	1984	5MC	C2-N1	-3.44	1.32	1.40
1	A	2564	2MU	C2-N3	-3.43	1.31	1.38
1	a	2564	2MU	C2-N3	-3.40	1.31	1.38
1	a	2617	PSU	C6-C5	3.40	1.39	1.35
1	A	1939	PSU	C6-C5	3.39	1.39	1.35
1	A	1961	5MU	C4-N3	-3.35	1.32	1.38
1	A	1984	5MC	C2-N1	-3.31	1.32	1.40
1	A	1942	4OC	C2-N1	-3.31	1.32	1.40
1	A	1937	5MU	C4-N3	-3.25	1.32	1.38
1	A	1939	PSU	C2-N3	-3.25	1.31	1.37
1	a	1961	5MU	C4-N3	-3.25	1.32	1.38
1	a	1961	5MU	C6-N1	-3.24	1.32	1.38
1	a	1942	4OC	C2-N1	-3.24	1.33	1.40
1	a	1937	5MU	C4-N3	-3.23	1.32	1.38
1	A	1964	5MC	C6-C5	3.23	1.39	1.34
1	A	1961	5MU	C4-C5	-3.20	1.39	1.44
1	a	2617	PSU	C2-N3	-3.20	1.32	1.37
1	a	1964	5MC	C6-C5	3.19	1.39	1.34
1	A	1961	5MU	C6-N1	-3.19	1.32	1.38
1	a	1964	5MC	C2-N1	-3.19	1.33	1.40
1	A	1964	5MC	C2-N1	-3.19	1.33	1.40
1	A	2564	2MU	O2-C2	-3.19	1.17	1.23
1	a	1961	5MU	C4-C5	-3.19	1.39	1.44
1	A	1937	5MU	C6-N1	-3.16	1.32	1.38
1	a	1933	PSU	C2-N3	-3.16	1.32	1.37
1	A	2617	PSU	C2-N3	-3.16	1.32	1.37
1	a	2564	2MU	O2-C2	-3.16	1.17	1.23
1	a	2564	2MU	O3'-C3'	3.14	1.50	1.43
1	A	1933	PSU	C2-N3	-3.14	1.32	1.37
1	a	1939	PSU	C2-N3	-3.14	1.32	1.37
1	A	1984	5MC	C6-C5	3.07	1.39	1.34
1	a	1937	5MU	C4-C5	-3.07	1.39	1.44
1	a	1937	5MU	C6-N1	-3.06	1.32	1.38
1	A	2564	2MU	O3'-C3'	3.05	1.50	1.43
1	A	1961	5MU	C2-N3	-3.00	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	1937	5MU	C4-C5	-3.00	1.39	1.44
1	A	1937	5MU	C2-N3	-2.96	1.32	1.38
1	a	2564	2MU	C6-N1	-2.93	1.30	1.38
1	a	1937	5MU	C2-N3	-2.93	1.32	1.38
1	a	1961	5MU	O2-C2	-2.90	1.17	1.23
1	A	2564	2MU	C6-N1	-2.88	1.31	1.38
1	A	1937	5MU	C2-N1	-2.85	1.33	1.38
1	A	1961	5MU	O2-C2	-2.84	1.17	1.23
1	a	1961	5MU	C2-N3	-2.81	1.33	1.38
1	a	1933	PSU	C1'-C5	2.80	1.56	1.50
1	A	1933	PSU	C4-N3	-2.76	1.33	1.38
1	a	1942	4OC	O2-C2	-2.73	1.18	1.23
1	a	1939	PSU	C4-N3	-2.72	1.33	1.38
1	A	2617	PSU	C1'-C5	2.72	1.56	1.50
1	a	1937	5MU	O2-C2	-2.71	1.18	1.23
1	a	1937	5MU	C2-N1	-2.70	1.34	1.38
1	A	1937	5MU	O2-C2	-2.70	1.18	1.23
1	A	1939	PSU	C4-N3	-2.69	1.33	1.38
1	A	1942	4OC	O2-C2	-2.69	1.18	1.23
1	A	2617	PSU	C4-N3	-2.68	1.33	1.38
1	a	2617	PSU	C4-N3	-2.65	1.33	1.38
1	A	1933	PSU	C1'-C5	2.63	1.56	1.50
1	a	2617	PSU	C1'-C5	2.63	1.56	1.50
1	a	1933	PSU	C4-N3	-2.62	1.34	1.38
1	A	1939	PSU	C1'-C5	2.62	1.56	1.50
1	a	2564	2MU	C5'-C4'	2.61	1.59	1.51
1	a	1984	5MC	O2-C2	-2.59	1.18	1.23
1	A	1984	5MC	O2-C2	-2.53	1.19	1.23
1	A	2564	2MU	C5'-C4'	2.52	1.59	1.51
1	A	1961	5MU	C2-N1	-2.49	1.34	1.38
1	a	1964	5MC	O2-C2	-2.47	1.19	1.23
1	a	2564	2MU	C2-N1	-2.47	1.34	1.38
1	A	1964	5MC	O2-C2	-2.44	1.19	1.23
1	a	1939	PSU	C1'-C5	2.39	1.55	1.50
1	A	1933	PSU	O4'-C1'	-2.31	1.40	1.43
1	A	2515	2MA	C6-N1	-2.30	1.32	1.38
1	a	1961	5MU	C2-N1	-2.28	1.34	1.38
1	a	2515	2MA	C6-N1	-2.28	1.32	1.38
1	A	2564	2MU	C2-N1	-2.26	1.34	1.38
1	A	1942	4OC	C6-N1	-2.23	1.32	1.38
1	a	1933	PSU	O4'-C1'	-2.21	1.40	1.43
1	a	1942	4OC	C6-N1	-2.20	1.32	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	a	2564	2MU	C5-C4	-2.04	1.39	1.43
1	a	1939	PSU	C4-C5	-2.03	1.38	1.44
1	a	2617	PSU	C6-N1	-2.02	1.32	1.36
1	A	1939	PSU	O4'-C1'	-2.00	1.41	1.43

All (86) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	1961	5MU	N3-C2-N1	5.62	122.35	114.89
1	a	1937	5MU	N3-C2-N1	5.61	122.34	114.89
1	a	1939	PSU	N1-C2-N3	5.51	121.37	115.13
1	a	2617	PSU	N1-C2-N3	5.50	121.36	115.13
1	a	1961	5MU	N3-C2-N1	5.42	122.08	114.89
1	A	1937	5MU	N3-C2-N1	5.41	122.08	114.89
1	A	2617	PSU	N1-C2-N3	5.36	121.21	115.13
1	A	1937	5MU	C4-N3-C2	-5.36	120.41	127.35
1	a	1933	PSU	N1-C2-N3	5.31	121.15	115.13
1	A	1939	PSU	N1-C2-N3	5.31	121.14	115.13
1	A	1933	PSU	N1-C2-N3	5.27	121.10	115.13
1	A	1937	5MU	C5-C6-N1	-5.26	117.93	123.34
1	A	1961	5MU	C4-N3-C2	-5.22	120.59	127.35
1	a	1937	5MU	C4-N3-C2	-5.22	120.60	127.35
1	A	2564	2MU	N3-C2-N1	5.10	121.66	114.89
1	a	1984	5MC	C5-C6-N1	-4.96	118.24	123.34
1	a	2564	2MU	N3-C2-N1	4.94	121.45	114.89
1	a	1961	5MU	C4-N3-C2	-4.82	121.11	127.35
1	a	2564	2MU	C4-N3-C2	-4.82	120.23	126.58
1	A	1961	5MU	C5-C6-N1	-4.77	118.43	123.34
1	A	2564	2MU	C4-N3-C2	-4.73	120.35	126.58
1	A	1964	5MC	C5-C6-N1	-4.66	118.55	123.34
1	A	1984	5MC	C5-C6-N1	-4.63	118.57	123.34
1	A	1937	5MU	C5-C4-N3	4.59	119.23	115.31
1	a	1937	5MU	C5-C6-N1	-4.58	118.63	123.34
1	a	1964	5MC	C5-C6-N1	-4.48	118.73	123.34
1	A	1961	5MU	C5-C4-N3	4.33	119.01	115.31
1	a	1937	5MU	C5-C4-N3	4.33	119.01	115.31
1	a	2564	2MU	C4'-O4'-C1'	-4.12	100.38	109.47
1	a	1961	5MU	C1'-N1-C2	4.00	124.82	117.57
1	a	1961	5MU	C5-C4-N3	3.99	118.72	115.31
1	A	1937	5MU	O4-C4-C5	-3.85	120.44	124.90
1	a	1937	5MU	O4-C4-C5	-3.80	120.50	124.90
1	A	1961	5MU	O4-C4-C5	-3.77	120.53	124.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	1961	5MU	C5-C6-N1	-3.77	119.46	123.34
1	a	2564	2MU	C5-C4-N3	3.75	120.44	114.84
1	a	1961	5MU	O4-C4-C5	-3.72	120.59	124.90
1	a	2617	PSU	O2-C2-N1	-3.66	118.76	122.79
1	a	1939	PSU	C4-N3-C2	-3.58	121.18	126.34
1	A	2564	2MU	C5-C4-N3	3.56	120.17	114.84
1	a	2564	2MU	O4'-C1'-N1	3.49	116.35	108.36
1	a	1961	5MU	C1'-N1-C6	-3.47	115.35	121.12
1	a	2617	PSU	C4-N3-C2	-3.42	121.41	126.34
1	A	1933	PSU	O2-C2-N1	-3.42	119.02	122.79
1	a	2564	2MU	O4-C4-C5	-3.24	119.46	125.16
1	A	1939	PSU	C4-N3-C2	-3.23	121.68	126.34
1	a	1933	PSU	O2-C2-N1	-3.22	119.25	122.79
1	A	2617	PSU	C4-N3-C2	-3.21	121.71	126.34
1	a	2564	2MU	C1'-N1-C2	3.19	123.35	117.57
1	a	1933	PSU	C4-N3-C2	-3.18	121.75	126.34
1	A	1939	PSU	O2-C2-N1	-3.17	119.30	122.79
1	A	2515	2MA	C8-N7-C5	3.16	109.02	102.99
1	a	1939	PSU	O2-C2-N1	-3.14	119.34	122.79
1	A	2617	PSU	O2-C2-N1	-3.13	119.34	122.79
1	a	2515	2MA	C8-N7-C5	3.13	108.94	102.99
1	A	2564	2MU	O4-C4-C5	-3.02	119.85	125.16
1	A	1937	5MU	O2-C2-N1	-2.93	118.90	122.79
1	A	1933	PSU	C4-N3-C2	-2.92	122.12	126.34
1	a	1937	5MU	O2-C2-N1	-2.87	118.97	122.79
1	A	2564	2MU	C1'-N1-C2	2.84	122.72	117.57
1	A	2564	2MU	C4'-O4'-C1'	-2.76	103.39	109.47
1	A	2515	2MA	C5-C6-N1	2.72	118.72	114.02
1	A	2564	2MU	C2'-C3'-C4'	2.65	107.75	101.99
1	a	2515	2MA	C5-C6-N1	2.62	118.54	114.02
1	A	1961	5MU	C1'-N1-C2	2.56	122.21	117.57
1	A	1942	4OC	C1'-N1-C2	2.49	123.97	118.42
1	a	1942	4OC	C1'-N1-C2	2.48	123.95	118.42
1	a	2564	2MU	C2'-C3'-C4'	2.35	107.10	101.99
1	A	1961	5MU	C1'-N1-C6	-2.27	117.35	121.12
1	a	2564	2MU	C1'-N1-C6	-2.22	116.00	120.84
1	A	2564	2MU	O4'-C1'-N1	2.19	113.36	108.36
1	A	2564	2MU	C3'-C2'-C1'	2.17	106.97	102.89
1	A	1961	5MU	O2-C2-N3	-2.17	117.46	121.50
1	A	1942	4OC	O2-C2-N3	-2.15	118.83	122.33
1	A	1933	PSU	C6-N1-C2	-2.14	120.50	122.68
1	a	1942	4OC	C1'-N1-C6	-2.12	116.22	120.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	a	1942	4OC	O2-C2-N3	-2.11	118.89	122.33
1	a	1961	5MU	O2-C2-N1	-2.06	120.05	122.79
1	a	1964	5MC	C5-C4-N3	-2.06	119.45	121.67
1	a	1942	4OC	N4-C4-N3	2.05	121.56	117.97
1	a	2564	2MU	O3'-C3'-C4'	2.04	116.94	111.05
1	a	1964	5MC	O2-C2-N3	-2.04	119.02	122.33
1	a	1942	4OC	O3'-C3'-C2'	2.01	116.88	111.17
1	a	1984	5MC	C5-C4-N3	-2.01	119.51	121.67
1	A	1942	4OC	C1'-N1-C6	-2.01	116.47	120.84
1	A	1942	4OC	O3'-C3'-C2'	2.00	116.85	111.17

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'

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Mol	Chain	Res	Type	Atom
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'

All (60) 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	C3'-C4'-C5'-O5'
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	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	C3'-C4'-C5'-O5'
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	C3'-C4'-C5'-O5'
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	2515	2MA	O4'-C4'-C5'-O5'

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

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

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

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
1	A	2861/2915 (98%)	-1.67	0	100	100	28, 68, 248, 600	0
1	a	2861/2915 (98%)	-1.66	0	100	100	26, 68, 245, 534	0
2	B	120/122 (98%)	-1.67	0	100	100	45, 103, 164, 217	0
2	b	120/122 (98%)	-1.63	0	100	100	55, 106, 173, 207	0
3	C	275/276 (99%)	-1.45	0	100	100	23, 51, 109, 136	0
3	c	275/276 (99%)	-1.48	0	100	100	26, 50, 111, 144	0
4	D	204/206 (99%)	-1.52	0	100	100	17, 44, 93, 144	0
4	d	204/206 (99%)	-1.46	0	100	100	10, 44, 95, 125	0
5	E	203/210 (96%)	-1.47	0	100	100	17, 62, 126, 155	0
5	e	203/210 (96%)	-1.49	0	100	100	23, 62, 118, 159	0
6	F	181/182 (99%)	-1.36	0	100	100	68, 132, 204, 233	0
6	f	181/182 (99%)	-1.39	0	100	100	71, 154, 216, 260	0
7	G	174/180 (96%)	-1.50	0	100	100	23, 76, 131, 204	0
7	g	174/180 (96%)	-1.50	0	100	100	35, 74, 124, 161	0
8	H	73/148 (49%)	-1.52	0	100	100	74, 112, 194, 314	0
8	h	62/148 (41%)	-1.52	0	100	100	68, 104, 182, 266	0
9	I	140/140 (100%)	-1.52	0	100	100	12, 49, 105, 143	0
9	i	140/140 (100%)	-1.54	0	100	100	22, 49, 109, 160	0
10	J	122/122 (100%)	-1.56	0	100	100	10, 35, 87, 126	0
10	j	122/122 (100%)	-1.47	0	100	100	21, 45, 92, 139	0
11	K	149/150 (99%)	-1.44	0	100	100	29, 59, 119, 148	0
11	k	149/150 (99%)	-1.47	0	100	100	11, 60, 127, 173	0
12	L	141/141 (100%)	-1.44	0	100	100	14, 61, 116, 148	0
12	l	141/141 (100%)	-1.46	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%)	-1.48	0	100	100	14, 44, 86, 108	0
13	m	118/118 (100%)	-1.45	0	100	100	13, 44, 110, 148	0
14	N	110/112 (98%)	-1.45	0	100	100	39, 86, 141, 194	0
14	n	110/112 (98%)	-1.48	0	100	100	36, 78, 124, 193	0
15	O	131/146 (89%)	-1.56	0	100	100	25, 53, 106, 135	0
15	o	131/146 (89%)	-1.58	0	100	100	17, 40, 93, 166	0
16	P	116/118 (98%)	-1.54	0	100	100	22, 48, 100, 115	0
16	p	116/118 (98%)	-1.49	0	100	100	6, 44, 92, 109	0
17	Q	101/101 (100%)	-1.53	0	100	100	42, 56, 106, 142	0
17	q	101/101 (100%)	-1.54	0	100	100	13, 53, 102, 150	0
18	R	112/113 (99%)	-1.53	0	100	100	20, 49, 101, 136	0
18	r	112/113 (99%)	-1.52	0	100	100	22, 49, 108, 147	0
19	S	95/96 (98%)	-1.51	0	100	100	19, 54, 108, 160	0
19	s	95/96 (98%)	-1.45	0	100	100	22, 50, 117, 151	0
20	T	107/107 (100%)	-1.52	0	100	100	32, 93, 152, 204	0
20	t	107/107 (100%)	-1.48	0	100	100	41, 84, 158, 221	0
21	U	203/206 (98%)	-1.52	0	100	100	33, 72, 128, 170	0
21	u	200/206 (97%)	-1.49	0	100	100	26, 83, 151, 203	0
22	V	77/78 (98%)	-1.41	0	100	100	26, 64, 113, 153	0
22	v	77/78 (98%)	-1.41	0	100	100	26, 70, 132, 142	0
23	W	97/98 (98%)	-1.49	0	100	100	23, 63, 132, 156	0
23	w	97/98 (98%)	-1.52	0	100	100	13, 47, 101, 130	0
24	X	70/72 (97%)	-1.60	0	100	100	30, 59, 118, 133	0
24	x	70/72 (97%)	-1.50	0	100	100	31, 66, 130, 153	0
25	Y	59/60 (98%)	-1.53	0	100	100	21, 72, 160, 249	0
25	y	59/60 (98%)	-1.51	0	100	100	18, 60, 154, 171	0
26	Z	45/71 (63%)	-1.43	0	100	100	89, 181, 265, 271	0
26	z	50/71 (70%)	-1.47	0	100	100	85, 195, 265, 300	0
27	0	59/60 (98%)	-1.49	0	100	100	11, 40, 99, 129	0
27	5	59/60 (98%)	-1.48	0	100	100	20, 53, 98, 121	0
28	13	53/54 (98%)	-1.53	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%)	-1.57	0	100	100	33, 74, 126, 168	0
29	2	48/49 (97%)	-1.42	0	100	100	25, 49, 89, 120	0
29	7	48/49 (97%)	-1.47	0	100	100	16, 47, 88, 130	0
30	3	64/65 (98%)	-1.50	0	100	100	24, 57, 118, 160	0
30	8	64/65 (98%)	-1.44	0	100	100	30, 59, 114, 145	0
31	4	37/37 (100%)	-1.44	0	100	100	48, 77, 133, 197	0
31	9	37/37 (100%)	-1.42	0	100	100	12, 61, 126, 131	0
All	All	12681/13106 (96%)	-1.57	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	0.97	0.06	229,236,241,242	0
1	5MU	A	1937	21/22	0.98	0.04	196,197,197,198	0
1	4OC	A	1942	21/23	0.98	0.04	230,234,236,236	0
1	PSU	a	1933	20/21	0.98	0.04	184,187,194,200	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	PSU	A	1933	20/21	0.99	0.04	164,166,170,176	0
1	5MC	A	1964	21/22	0.99	0.03	62,70,72,72	0
1	5MC	A	1984	21/22	0.99	0.04	57,62,64,81	0
1	PSU	A	2617	20/21	0.99	0.04	52,56,57,57	0
1	5MU	a	1961	21/22	0.99	0.05	45,46,47,47	0
1	5MC	a	1964	21/22	0.99	0.03	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	0.03	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
1	2MU	A	2564	21/23	1.00	0.04	41,41,41,41	0
1	5MU	A	1961	21/22	1.00	0.04	34,35,36,39	0
1	2MA	A	2515	23/24	1.00	0.03	43,43,44,44	0

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4392	1/1	0.50	0.01	25,25,25,25	0
32	MG	A	3661	1/1	0.83	0.12	8,8,8,8	0
32	MG	A	3790	1/1	0.91	0.05	2,2,2,2	0
32	MG	A	3706	1/1	0.91	0.06	95,95,95,95	0
32	MG	a	3906	1/1	0.93	0.13	1,1,1,1	0
32	MG	d	319	1/1	0.93	0.05	95,95,95,95	0
32	MG	a	4037	1/1	0.94	0.17	3,3,3,3	0
32	MG	a	4058	1/1	0.94	0.04	19,19,19,19	0
32	MG	a	4373	1/1	0.94	0.03	25,25,25,25	0
32	MG	a	3725	1/1	0.94	0.13	83,83,83,83	0
32	MG	a	4541	1/1	0.94	0.04	30,30,30,30	0
32	MG	c	325	1/1	0.94	0.03	27,27,27,27	0
32	MG	A	3815	1/1	0.94	0.07	13,13,13,13	0
32	MG	e	312	1/1	0.94	0.10	21,21,21,21	0
32	MG	a	3879	1/1	0.95	0.12	95,95,95,95	0
32	MG	a	3902	1/1	0.95	0.25	75,75,75,75	0
32	MG	A	3786	1/1	0.95	0.02	2,2,2,2	0
32	MG	A	3739	1/1	0.95	0.05	4,4,4,4	0
32	MG	A	3755	1/1	0.95	0.04	49,49,49,49	0
32	MG	a	4125	1/1	0.95	0.05	9,9,9,9	0
32	MG	a	4132	1/1	0.95	0.06	12,12,12,12	0
32	MG	A	3849	1/1	0.95	0.02	10,10,10,10	0
32	MG	a	4375	1/1	0.95	0.04	21,21,21,21	0
32	MG	A	3988	1/1	0.95	0.04	23,23,23,23	0
32	MG	A	4082	1/1	0.95	0.06	28,28,28,28	0
32	MG	a	4607	1/1	0.95	0.14	27,27,27,27	0
32	MG	A	4334	1/1	0.95	0.02	26,26,26,26	0
32	MG	A	4380	1/1	0.95	0.06	30,30,30,30	0
32	MG	A	3756	1/1	0.95	0.06	44,44,44,44	0
32	MG	h	209	1/1	0.95	0.04	174,174,174,174	0
32	MG	a	3899	1/1	0.96	0.06	5,5,5,5	0
32	MG	A	3896	1/1	0.96	0.08	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3696	1/1	0.96	0.06	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	4024	1/1	0.96	0.06	19,19,19,19	0
32	MG	A	4031	1/1	0.96	0.04	24,24,24,24	0
32	MG	A	4067	1/1	0.96	0.07	29,29,29,29	0
32	MG	A	3733	1/1	0.96	0.05	7,7,7,7	0
32	MG	A	4246	1/1	0.96	0.09	26,26,26,26	0
32	MG	a	4175	1/1	0.96	0.05	95,95,95,95	0
32	MG	a	4180	1/1	0.96	0.04	95,95,95,95	0
32	MG	a	4190	1/1	0.96	0.03	3,3,3,3	0
32	MG	a	4260	1/1	0.96	0.07	36,36,36,36	0
32	MG	a	4269	1/1	0.96	0.02	26,26,26,26	0
32	MG	a	4353	1/1	0.96	0.04	21,21,21,21	0
32	MG	A	4267	1/1	0.96	0.10	27,27,27,27	0
32	MG	A	4274	1/1	0.96	0.05	27,27,27,27	0
32	MG	A	3697	1/1	0.96	0.05	95,95,95,95	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	3859	1/1	0.96	0.03	0,0,0,0	0
32	MG	a	4599	1/1	0.96	0.03	27,27,27,27	0
32	MG	a	3330	1/1	0.96	0.09	104,104,104,104	0
32	MG	b	220	1/1	0.96	0.04	30,30,30,30	0
32	MG	A	3868	1/1	0.96	0.09	50,50,50,50	0
32	MG	a	3876	1/1	0.96	0.06	7,7,7,7	0
32	MG	A	3881	1/1	0.96	0.03	95,95,95,95	0
32	MG	e	337	1/1	0.96	0.03	24,24,24,24	0
32	MG	a	3895	1/1	0.96	0.07	0,0,0,0	0
32	MG	r	228	1/1	0.96	0.03	28,28,28,28	0
32	MG	A	3601	1/1	0.97	0.02	5,5,5,5	0
32	MG	A	4285	1/1	0.97	0.02	24,24,24,24	0
32	MG	A	4319	1/1	0.97	0.04	29,29,29,29	0
32	MG	A	3830	1/1	0.97	0.04	32,32,32,32	0
32	MG	A	4362	1/1	0.97	0.02	28,28,28,28	0
32	MG	A	4379	1/1	0.97	0.07	30,30,30,30	0
32	MG	A	3836	1/1	0.97	0.04	64,64,64,64	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	B	232	1/1	0.97	0.08	0,0,0,0	0
32	MG	B	233	1/1	0.97	0.04	57,57,57,57	0
32	MG	B	234	1/1	0.97	0.04	95,95,95,95	0
32	MG	C	332	1/1	0.97	0.02	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	C	335	1/1	0.97	0.06	27,27,27,27	0
32	MG	C	344	1/1	0.97	0.03	25,25,25,25	0
32	MG	E	316	1/1	0.97	0.03	2,2,2,2	0
32	MG	I	209	1/1	0.97	0.10	95,95,95,95	0
32	MG	K	214	1/1	0.97	0.04	95,95,95,95	0
32	MG	K	221	1/1	0.97	0.02	18,18,18,18	0
32	MG	P	205	1/1	0.97	0.04	95,95,95,95	0
32	MG	Q	210	1/1	0.97	0.02	27,27,27,27	0
32	MG	T	510	1/1	0.97	0.03	28,28,28,28	0
32	MG	U	307	1/1	0.97	0.03	23,23,23,23	0
32	MG	X	109	1/1	0.97	0.05	95,95,95,95	0
32	MG	0	105	1/1	0.97	0.04	29,29,29,29	0
32	MG	a	3275	1/1	0.97	0.06	92,92,92,92	0
32	MG	A	3662	1/1	0.97	0.05	95,95,95,95	0
32	MG	a	3350	1/1	0.97	0.06	96,96,96,96	0
32	MG	A	3853	1/1	0.97	0.05	95,95,95,95	0
32	MG	a	3726	1/1	0.97	0.03	93,93,93,93	0
32	MG	A	3681	1/1	0.97	0.09	95,95,95,95	0
32	MG	A	3743	1/1	0.97	0.04	8,8,8,8	0
32	MG	A	3872	1/1	0.97	0.04	95,95,95,95	0
32	MG	A	3747	1/1	0.97	0.04	17,17,17,17	0
32	MG	A	3894	1/1	0.97	0.03	95,95,95,95	0
32	MG	A	3754	1/1	0.97	0.04	20,20,20,20	0
32	MG	a	3922	1/1	0.97	0.04	6,6,6,6	0
32	MG	A	3913	1/1	0.97	0.04	95,95,95,95	0
32	MG	a	3947	1/1	0.97	0.05	31,31,31,31	0
32	MG	A	3919	1/1	0.97	0.04	17,17,17,17	0
32	MG	a	3964	1/1	0.97	0.04	95,95,95,95	0
32	MG	a	3973	1/1	0.97	0.11	8,8,8,8	0
32	MG	a	3975	1/1	0.97	0.05	17,17,17,17	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	4013	1/1	0.97	0.07	95,95,95,95	0
32	MG	A	3932	1/1	0.97	0.09	0,0,0,0	0
32	MG	A	3934	1/1	0.97	0.04	21,21,21,21	0
32	MG	A	3956	1/1	0.97	0.05	95,95,95,95	0
32	MG	a	4085	1/1	0.97	0.07	30,30,30,30	0
32	MG	A	3961	1/1	0.97	0.09	95,95,95,95	0
32	MG	A	3683	1/1	0.97	0.06	7,7,7,7	0
32	MG	a	4138	1/1	0.97	0.05	95,95,95,95	0
32	MG	a	4150	1/1	0.97	0.05	5,5,5,5	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4168	1/1	0.97	0.03	95,95,95,95	0
32	MG	A	4005	1/1	0.97	0.05	15,15,15,15	0
32	MG	A	4023	1/1	0.97	0.04	15,15,15,15	0
32	MG	a	4185	1/1	0.97	0.07	95,95,95,95	0
32	MG	A	3685	1/1	0.97	0.06	40,40,40,40	0
32	MG	a	4246	1/1	0.97	0.05	95,95,95,95	0
32	MG	A	4052	1/1	0.97	0.03	22,22,22,22	0
32	MG	A	3621	1/1	0.97	0.06	32,32,32,32	0
32	MG	a	4286	1/1	0.97	0.03	31,31,31,31	0
32	MG	a	4301	1/1	0.97	0.03	28,28,28,28	0
32	MG	a	4314	1/1	0.97	0.04	30,30,30,30	0
32	MG	A	4073	1/1	0.97	0.06	30,30,30,30	0
32	MG	A	3645	1/1	0.97	0.05	12,12,12,12	0
32	MG	A	4097	1/1	0.97	0.03	26,26,26,26	0
32	MG	A	4106	1/1	0.97	0.06	30,30,30,30	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	4407	1/1	0.97	0.03	25,25,25,25	0
32	MG	a	4427	1/1	0.97	0.03	27,27,27,27	0
32	MG	a	4459	1/1	0.97	0.04	30,30,30,30	0
32	MG	A	4116	1/1	0.97	0.04	28,28,28,28	0
32	MG	A	4144	1/1	0.97	0.04	27,27,27,27	0
32	MG	A	4182	1/1	0.97	0.02	26,26,26,26	0
32	MG	a	4551	1/1	0.97	0.02	31,31,31,31	0
32	MG	a	4564	1/1	0.97	0.03	26,26,26,26	0
32	MG	a	4574	1/1	0.97	0.04	28,28,28,28	0
32	MG	a	4577	1/1	0.97	0.03	29,29,29,29	0
32	MG	a	4580	1/1	0.97	0.03	22,22,22,22	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	4197	1/1	0.97	0.04	24,24,24,24	0
32	MG	a	4602	1/1	0.97	0.05	32,32,32,32	0
32	MG	A	4211	1/1	0.97	0.05	25,25,25,25	0
32	MG	a	4614	1/1	0.97	0.02	33,33,33,33	0
32	MG	b	217	1/1	0.97	0.03	45,45,45,45	0
32	MG	A	4233	1/1	0.97	0.10	31,31,31,31	0
32	MG	c	317	1/1	0.97	0.06	1,1,1,1	0
32	MG	A	4238	1/1	0.97	0.07	32,32,32,32	0
32	MG	A	3792	1/1	0.97	0.04	7,7,7,7	0
32	MG	A	4256	1/1	0.97	0.07	32,32,32,32	0
32	MG	e	325	1/1	0.97	0.02	34,34,34,34	0
32	MG	e	330	1/1	0.97	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	A	4264	1/1	0.97	0.04	26,26,26,26	0
32	MG	A	3810	1/1	0.97	0.07	251,251,251,251	0
32	MG	i	207	1/1	0.97	0.03	45,45,45,45	0
32	MG	i	219	1/1	0.97	0.03	26,26,26,26	0
32	MG	j	217	1/1	0.97	0.07	95,95,95,95	0
32	MG	j	218	1/1	0.97	0.03	44,44,44,44	0
32	MG	m	213	1/1	0.97	0.03	29,29,29,29	0
32	MG	n	207	1/1	0.97	0.03	30,30,30,30	0
32	MG	o	217	1/1	0.97	0.05	56,56,56,56	0
32	MG	o	224	1/1	0.97	0.02	32,32,32,32	0
32	MG	p	212	1/1	0.97	0.09	95,95,95,95	0
32	MG	r	212	1/1	0.97	0.05	2,2,2,2	0
32	MG	r	226	1/1	0.97	0.03	23,23,23,23	0
32	MG	A	4273	1/1	0.97	0.08	28,28,28,28	0
32	MG	s	105	1/1	0.97	0.06	18,18,18,18	0
32	MG	x	108	1/1	0.97	0.02	50,50,50,50	0
32	MG	8	110	1/1	0.97	0.06	30,30,30,30	0
32	MG	A	4222	1/1	0.98	0.02	29,29,29,29	0
32	MG	A	4230	1/1	0.98	0.03	30,30,30,30	0
32	MG	A	3770	1/1	0.98	0.06	95,95,95,95	0
32	MG	A	3776	1/1	0.98	0.04	9,9,9,9	0
32	MG	A	4239	1/1	0.98	0.04	32,32,32,32	0
32	MG	A	3781	1/1	0.98	0.05	6,6,6,6	0
32	MG	A	4247	1/1	0.98	0.05	30,30,30,30	0
32	MG	A	4254	1/1	0.98	0.03	30,30,30,30	0
32	MG	A	3783	1/1	0.98	0.06	143,143,143,143	0
32	MG	A	4263	1/1	0.98	0.05	28,28,28,28	0
32	MG	A	3600	1/1	0.98	0.03	59,59,59,59	0
32	MG	A	4266	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	3787	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	4271	1/1	0.98	0.01	26,26,26,26	0
32	MG	A	4272	1/1	0.98	0.01	22,22,22,22	0
32	MG	A	3789	1/1	0.98	0.06	95,95,95,95	0
32	MG	A	3063	1/1	0.98	0.04	86,86,86,86	0
32	MG	A	4278	1/1	0.98	0.04	34,34,34,34	0
32	MG	A	4280	1/1	0.98	0.07	32,32,32,32	0
32	MG	A	4283	1/1	0.98	0.02	24,24,24,24	0
32	MG	A	4284	1/1	0.98	0.02	25,25,25,25	0
32	MG	A	3668	1/1	0.98	0.07	59,59,59,59	0
32	MG	A	4290	1/1	0.98	0.05	28,28,28,28	0
32	MG	A	4291	1/1	0.98	0.03	23,23,23,23	0
32	MG	A	4292	1/1	0.98	0.03	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4293	1/1	0.98	0.02	28,28,28,28	0
32	MG	A	4296	1/1	0.98	0.02	27,27,27,27	0
32	MG	A	4297	1/1	0.98	0.04	27,27,27,27	0
32	MG	A	3803	1/1	0.98	0.04	10,10,10,10	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	4331	1/1	0.98	0.02	32,32,32,32	0
32	MG	A	3806	1/1	0.98	0.01	7,7,7,7	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	4348	1/1	0.98	0.03	26,26,26,26	0
32	MG	A	4351	1/1	0.98	0.03	28,28,28,28	0
32	MG	A	4353	1/1	0.98	0.04	27,27,27,27	0
32	MG	A	4357	1/1	0.98	0.03	30,30,30,30	0
32	MG	A	4361	1/1	0.98	0.02	23,23,23,23	0
32	MG	A	3809	1/1	0.98	0.07	24,24,24,24	0
32	MG	A	4376	1/1	0.98	0.05	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	3676	1/1	0.98	0.05	56,56,56,56	0
32	MG	A	3812	1/1	0.98	0.03	0,0,0,0	0
32	MG	A	3814	1/1	0.98	0.06	8,8,8,8	0
32	MG	B	230	1/1	0.98	0.02	11,11,11,11	0
32	MG	A	3679	1/1	0.98	0.04	3,3,3,3	0
32	MG	A	3816	1/1	0.98	0.03	8,8,8,8	0
32	MG	A	3822	1/1	0.98	0.03	11,11,11,11	0
32	MG	A	3827	1/1	0.98	0.07	11,11,11,11	0
32	MG	C	319	1/1	0.98	0.03	95,95,95,95	0
32	MG	C	322	1/1	0.98	0.03	33,33,33,33	0
32	MG	C	326	1/1	0.98	0.02	28,28,28,28	0
32	MG	A	3829	1/1	0.98	0.02	3,3,3,3	0
32	MG	C	333	1/1	0.98	0.02	32,32,32,32	0
32	MG	A	3602	1/1	0.98	0.04	96,96,96,96	0
32	MG	C	339	1/1	0.98	0.02	24,24,24,24	0
32	MG	A	3609	1/1	0.98	0.04	2,2,2,2	0
32	MG	D	306	1/1	0.98	0.11	95,95,95,95	0
32	MG	A	3848	1/1	0.98	0.08	48,48,48,48	0
32	MG	E	318	1/1	0.98	0.09	95,95,95,95	0
32	MG	E	321	1/1	0.98	0.02	18,18,18,18	0
32	MG	E	324	1/1	0.98	0.02	20,20,20,20	0
32	MG	E	325	1/1	0.98	0.02	26,26,26,26	0
32	MG	F	205	1/1	0.98	0.02	21,21,21,21	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	H	208	1/1	0.98	0.03	36,36,36,36	0
32	MG	A	3620	1/1	0.98	0.04	0,0,0,0	0
32	MG	J	203	1/1	0.98	0.04	57,57,57,57	0
32	MG	J	205	1/1	0.98	0.03	23,23,23,23	0
32	MG	K	210	1/1	0.98	0.02	14,14,14,14	0
32	MG	A	3852	1/1	0.98	0.09	14,14,14,14	0
32	MG	K	215	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3693	1/1	0.98	0.04	8,8,8,8	0
32	MG	L	209	1/1	0.98	0.06	25,25,25,25	0
32	MG	M	204	1/1	0.98	0.10	95,95,95,95	0
32	MG	O	204	1/1	0.98	0.03	95,95,95,95	0
32	MG	P	204	1/1	0.98	0.06	95,95,95,95	0
32	MG	A	3504	1/1	0.98	0.18	99,99,99,99	0
32	MG	Q	202	1/1	0.98	0.03	21,21,21,21	0
32	MG	Q	208	1/1	0.98	0.02	30,30,30,30	0
32	MG	A	3861	1/1	0.98	0.03	1,1,1,1	0
32	MG	R	206	1/1	0.98	0.04	108,108,108,108	0
32	MG	R	209	1/1	0.98	0.04	95,95,95,95	0
32	MG	R	211	1/1	0.98	0.02	24,24,24,24	0
32	MG	R	213	1/1	0.98	0.02	23,23,23,23	0
32	MG	R	218	1/1	0.98	0.05	27,27,27,27	0
32	MG	S	104	1/1	0.98	0.11	95,95,95,95	0
32	MG	T	508	1/1	0.98	0.04	95,95,95,95	0
32	MG	A	3866	1/1	0.98	0.05	12,12,12,12	0
32	MG	T	516	1/1	0.98	0.03	26,26,26,26	0
32	MG	T	517	1/1	0.98	0.05	27,27,27,27	0
32	MG	A	3622	1/1	0.98	0.04	14,14,14,14	0
32	MG	U	309	1/1	0.98	0.03	27,27,27,27	0
32	MG	U	311	1/1	0.98	0.02	28,28,28,28	0
32	MG	V	105	1/1	0.98	0.05	30,30,30,30	0
32	MG	W	110	1/1	0.98	0.11	69,69,69,69	0
32	MG	X	107	1/1	0.98	0.03	95,95,95,95	0
32	MG	X	108	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3701	1/1	0.98	0.07	95,95,95,95	0
32	MG	Y	101	1/1	0.98	0.09	14,14,14,14	0
32	MG	A	3880	1/1	0.98	0.02	3,3,3,3	0
32	MG	2	106	1/1	0.98	0.11	25,25,25,25	0
32	MG	a	3132	1/1	0.98	0.06	92,92,92,92	0
32	MG	a	3181	1/1	0.98	0.03	107,107,107,107	0
32	MG	a	3226	1/1	0.98	0.06	63,63,63,63	0
32	MG	A	3702	1/1	0.98	0.06	5,5,5,5	0
32	MG	a	3303	1/1	0.98	0.01	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3308	1/1	0.98	0.04	79,79,79,79	0
32	MG	A	3882	1/1	0.98	0.04	174,174,174,174	0
32	MG	A	3889	1/1	0.98	0.03	28,28,28,28	0
32	MG	a	3532	1/1	0.98	0.04	62,62,62,62	0
32	MG	a	3594	1/1	0.98	0.05	58,58,58,58	0
32	MG	a	3657	1/1	0.98	0.08	70,70,70,70	0
32	MG	a	3714	1/1	0.98	0.07	76,76,76,76	0
32	MG	A	3703	1/1	0.98	0.04	37,37,37,37	0
32	MG	A	3704	1/1	0.98	0.04	11,11,11,11	0
32	MG	a	3804	1/1	0.98	0.08	10,10,10,10	0
32	MG	a	3806	1/1	0.98	0.04	7,7,7,7	0
32	MG	a	3810	1/1	0.98	0.03	9,9,9,9	0
32	MG	a	3813	1/1	0.98	0.04	88,88,88,88	0
32	MG	a	3816	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	3819	1/1	0.98	0.03	15,15,15,15	0
32	MG	a	3821	1/1	0.98	0.04	2,2,2,2	0
32	MG	a	3823	1/1	0.98	0.06	38,38,38,38	0
32	MG	a	3829	1/1	0.98	0.05	10,10,10,10	0
32	MG	a	3854	1/1	0.98	0.10	95,95,95,95	0
32	MG	a	3856	1/1	0.98	0.04	3,3,3,3	0
32	MG	a	3867	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	3871	1/1	0.98	0.06	10,10,10,10	0
32	MG	A	3898	1/1	0.98	0.06	9,9,9,9	0
32	MG	a	3877	1/1	0.98	0.07	7,7,7,7	0
32	MG	A	3911	1/1	0.98	0.02	37,37,37,37	0
32	MG	a	3882	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	3887	1/1	0.98	0.14	74,74,74,74	0
32	MG	a	3888	1/1	0.98	0.05	20,20,20,20	0
32	MG	a	3892	1/1	0.98	0.05	3,3,3,3	0
32	MG	A	3633	1/1	0.98	0.18	88,88,88,88	0
32	MG	a	3896	1/1	0.98	0.04	1,1,1,1	0
32	MG	A	3915	1/1	0.98	0.02	130,130,130,130	0
32	MG	a	3901	1/1	0.98	0.08	57,57,57,57	0
32	MG	A	3918	1/1	0.98	0.02	2,2,2,2	0
32	MG	a	3903	1/1	0.98	0.05	12,12,12,12	0
32	MG	A	3710	1/1	0.98	0.03	13,13,13,13	0
32	MG	a	3909	1/1	0.98	0.05	39,39,39,39	0
32	MG	A	3926	1/1	0.98	0.05	95,95,95,95	0
32	MG	A	3929	1/1	0.98	0.02	0,0,0,0	0
32	MG	a	3934	1/1	0.98	0.07	14,14,14,14	0
32	MG	a	3938	1/1	0.98	0.11	31,31,31,31	0
32	MG	a	3940	1/1	0.98	0.04	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3722	1/1	0.98	0.02	10,10,10,10	0
32	MG	A	3726	1/1	0.98	0.09	27,27,27,27	0
32	MG	a	3950	1/1	0.98	0.05	34,34,34,34	0
32	MG	a	3956	1/1	0.98	0.02	12,12,12,12	0
32	MG	a	3957	1/1	0.98	0.10	87,87,87,87	0
32	MG	a	3960	1/1	0.98	0.04	95,95,95,95	0
32	MG	A	3940	1/1	0.98	0.07	70,70,70,70	0
32	MG	a	3970	1/1	0.98	0.07	95,95,95,95	0
32	MG	A	3941	1/1	0.98	0.03	30,30,30,30	0
32	MG	A	3946	1/1	0.98	0.04	16,16,16,16	0
32	MG	a	3977	1/1	0.98	0.05	40,40,40,40	0
32	MG	A	3727	1/1	0.98	0.04	6,6,6,6	0
32	MG	a	3982	1/1	0.98	0.07	95,95,95,95	0
32	MG	A	3957	1/1	0.98	0.03	49,49,49,49	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	3958	1/1	0.98	0.04	10,10,10,10	0
32	MG	a	3991	1/1	0.98	0.03	4,4,4,4	0
32	MG	a	4008	1/1	0.98	0.06	25,25,25,25	0
32	MG	a	4011	1/1	0.98	0.05	6,6,6,6	0
32	MG	A	3959	1/1	0.98	0.02	8,8,8,8	0
32	MG	a	4016	1/1	0.98	0.01	4,4,4,4	0
32	MG	a	4020	1/1	0.98	0.04	43,43,43,43	0
32	MG	a	4021	1/1	0.98	0.03	51,51,51,51	0
32	MG	A	3638	1/1	0.98	0.05	14,14,14,14	0
32	MG	a	4029	1/1	0.98	0.04	95,95,95,95	0
32	MG	a	4032	1/1	0.98	0.03	13,13,13,13	0
32	MG	A	3971	1/1	0.98	0.07	8,8,8,8	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	4050	1/1	0.98	0.05	2,2,2,2	0
32	MG	a	4051	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	4052	1/1	0.98	0.05	40,40,40,40	0
32	MG	a	4055	1/1	0.98	0.05	14,14,14,14	0
32	MG	A	3734	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	4061	1/1	0.98	0.03	43,43,43,43	0
32	MG	a	4066	1/1	0.98	0.03	10,10,10,10	0
32	MG	a	4069	1/1	0.98	0.05	47,47,47,47	0
32	MG	a	4075	1/1	0.98	0.04	18,18,18,18	0
32	MG	a	4081	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	4083	1/1	0.98	0.05	13,13,13,13	0
32	MG	a	4084	1/1	0.98	0.05	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3989	1/1	0.98	0.03	20,20,20,20	0
32	MG	a	4086	1/1	0.98	0.07	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	4103	1/1	0.98	0.04	4,4,4,4	0
32	MG	a	4104	1/1	0.98	0.02	3,3,3,3	0
32	MG	a	4107	1/1	0.98	0.06	95,95,95,95	0
32	MG	a	4108	1/1	0.98	0.04	3,3,3,3	0
32	MG	a	4109	1/1	0.98	0.03	43,43,43,43	0
32	MG	a	4111	1/1	0.98	0.04	47,47,47,47	0
32	MG	a	4117	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	4120	1/1	0.98	0.08	71,71,71,71	0
32	MG	a	4123	1/1	0.98	0.02	2,2,2,2	0
32	MG	A	3993	1/1	0.98	0.05	22,22,22,22	0
32	MG	a	4128	1/1	0.98	0.04	23,23,23,23	0
32	MG	a	4131	1/1	0.98	0.10	95,95,95,95	0
32	MG	A	3995	1/1	0.98	0.03	21,21,21,21	0
32	MG	a	4135	1/1	0.98	0.06	1,1,1,1	0
32	MG	a	4137	1/1	0.98	0.03	95,95,95,95	0
32	MG	A	3542	1/1	0.98	0.03	94,94,94,94	0
32	MG	a	4139	1/1	0.98	0.03	4,4,4,4	0
32	MG	a	4142	1/1	0.98	0.09	8,8,8,8	0
32	MG	a	4145	1/1	0.98	0.04	28,28,28,28	0
32	MG	a	4147	1/1	0.98	0.07	6,6,6,6	0
32	MG	a	4149	1/1	0.98	0.09	43,43,43,43	0
32	MG	A	4016	1/1	0.98	0.02	20,20,20,20	0
32	MG	a	4153	1/1	0.98	0.07	34,34,34,34	0
32	MG	a	4154	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	4157	1/1	0.98	0.07	95,95,95,95	0
32	MG	a	4159	1/1	0.98	0.12	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	4019	1/1	0.98	0.03	29,29,29,29	0
32	MG	a	4169	1/1	0.98	0.05	95,95,95,95	0
32	MG	A	4022	1/1	0.98	0.02	16,16,16,16	0
32	MG	a	4178	1/1	0.98	0.02	1,1,1,1	0
32	MG	a	4179	1/1	0.98	0.03	2,2,2,2	0
32	MG	A	3742	1/1	0.98	0.03	3,3,3,3	0
32	MG	A	4028	1/1	0.98	0.04	32,32,32,32	0
32	MG	A	3647	1/1	0.98	0.04	13,13,13,13	0
32	MG	a	4192	1/1	0.98	0.03	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4197	1/1	0.98	0.05	2,2,2,2	0
32	MG	a	4198	1/1	0.98	0.05	95,95,95,95	0
32	MG	a	4205	1/1	0.98	0.05	1,1,1,1	0
32	MG	a	4206	1/1	0.98	0.06	29,29,29,29	0
32	MG	a	4208	1/1	0.98	0.05	57,57,57,57	0
32	MG	a	4214	1/1	0.98	0.07	8,8,8,8	0
32	MG	a	4221	1/1	0.98	0.05	14,14,14,14	0
32	MG	a	4222	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	4224	1/1	0.98	0.05	95,95,95,95	0
32	MG	a	4225	1/1	0.98	0.04	62,62,62,62	0
32	MG	a	4235	1/1	0.98	0.04	60,60,60,60	0
32	MG	a	4244	1/1	0.98	0.09	64,64,64,64	0
32	MG	A	4033	1/1	0.98	0.02	27,27,27,27	0
32	MG	a	4258	1/1	0.98	0.04	38,38,38,38	0
32	MG	A	4035	1/1	0.98	0.02	33,33,33,33	0
32	MG	a	4268	1/1	0.98	0.01	25,25,25,25	0
32	MG	A	4039	1/1	0.98	0.03	24,24,24,24	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	4284	1/1	0.98	0.03	21,21,21,21	0
32	MG	A	4047	1/1	0.98	0.06	25,25,25,25	0
32	MG	a	4291	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4295	1/1	0.98	0.06	23,23,23,23	0
32	MG	a	4296	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4298	1/1	0.98	0.03	32,32,32,32	0
32	MG	A	4049	1/1	0.98	0.02	21,21,21,21	0
32	MG	a	4310	1/1	0.98	0.02	24,24,24,24	0
32	MG	a	4311	1/1	0.98	0.02	25,25,25,25	0
32	MG	a	4312	1/1	0.98	0.02	23,23,23,23	0
32	MG	a	4313	1/1	0.98	0.09	24,24,24,24	0
32	MG	A	3745	1/1	0.98	0.03	3,3,3,3	0
32	MG	a	4315	1/1	0.98	0.07	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	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	0.05	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4350	1/1	0.98	0.03	21,21,21,21	0
32	MG	A	4058	1/1	0.98	0.06	30,30,30,30	0
32	MG	a	4356	1/1	0.98	0.04	27,27,27,27	0
32	MG	a	4357	1/1	0.98	0.03	28,28,28,28	0
32	MG	a	4360	1/1	0.98	0.03	22,22,22,22	0
32	MG	a	4370	1/1	0.98	0.02	24,24,24,24	0
32	MG	A	4061	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4374	1/1	0.98	0.03	19,19,19,19	0
32	MG	A	3746	1/1	0.98	0.04	6,6,6,6	0
32	MG	a	4377	1/1	0.98	0.03	26,26,26,26	0
32	MG	a	4379	1/1	0.98	0.03	26,26,26,26	0
32	MG	a	4391	1/1	0.98	0.01	21,21,21,21	0
32	MG	A	3648	1/1	0.98	0.06	3,3,3,3	0
32	MG	a	4394	1/1	0.98	0.05	24,24,24,24	0
32	MG	a	4395	1/1	0.98	0.02	32,32,32,32	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	4401	1/1	0.98	0.02	25,25,25,25	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	4406	1/1	0.98	0.02	24,24,24,24	0
32	MG	A	3753	1/1	0.98	0.04	95,95,95,95	0
32	MG	a	4413	1/1	0.98	0.02	25,25,25,25	0
32	MG	a	4417	1/1	0.98	0.07	31,31,31,31	0
32	MG	a	4418	1/1	0.98	0.04	29,29,29,29	0
32	MG	a	4422	1/1	0.98	0.04	27,27,27,27	0
32	MG	A	4084	1/1	0.98	0.02	23,23,23,23	0
32	MG	a	4428	1/1	0.98	0.04	33,33,33,33	0
32	MG	a	4435	1/1	0.98	0.04	21,21,21,21	0
32	MG	a	4438	1/1	0.98	0.03	31,31,31,31	0
32	MG	a	4445	1/1	0.98	0.04	21,21,21,21	0
32	MG	a	4451	1/1	0.98	0.03	34,34,34,34	0
32	MG	a	4452	1/1	0.98	0.08	32,32,32,32	0
32	MG	a	4454	1/1	0.98	0.04	26,26,26,26	0
32	MG	a	4456	1/1	0.98	0.03	24,24,24,24	0
32	MG	a	4458	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	4085	1/1	0.98	0.05	21,21,21,21	0
32	MG	a	4462	1/1	0.98	0.04	29,29,29,29	0
32	MG	a	4469	1/1	0.98	0.03	25,25,25,25	0
32	MG	a	4474	1/1	0.98	0.02	27,27,27,27	0
32	MG	a	4478	1/1	0.98	0.03	28,28,28,28	0
32	MG	a	4484	1/1	0.98	0.02	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4486	1/1	0.98	0.04	30,30,30,30	0
32	MG	a	4493	1/1	0.98	0.03	26,26,26,26	0
32	MG	A	4089	1/1	0.98	0.05	26,26,26,26	0
32	MG	a	4500	1/1	0.98	0.08	29,29,29,29	0
32	MG	a	4503	1/1	0.98	0.03	24,24,24,24	0
32	MG	a	4505	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	4091	1/1	0.98	0.02	29,29,29,29	0
32	MG	a	4510	1/1	0.98	0.02	22,22,22,22	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	4521	1/1	0.98	0.02	28,28,28,28	0
32	MG	a	4523	1/1	0.98	0.02	24,24,24,24	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	4533	1/1	0.98	0.04	32,32,32,32	0
32	MG	a	4535	1/1	0.98	0.06	28,28,28,28	0
32	MG	A	4096	1/1	0.98	0.02	29,29,29,29	0
32	MG	A	3652	1/1	0.98	0.09	95,95,95,95	0
32	MG	a	4560	1/1	0.98	0.02	28,28,28,28	0
32	MG	A	4100	1/1	0.98	0.05	31,31,31,31	0
32	MG	A	4101	1/1	0.98	0.04	34,34,34,34	0
32	MG	A	4104	1/1	0.98	0.03	27,27,27,27	0
32	MG	a	4579	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	4586	1/1	0.98	0.02	26,26,26,26	0
32	MG	a	4590	1/1	0.98	0.07	26,26,26,26	0
32	MG	A	4108	1/1	0.98	0.04	27,27,27,27	0
32	MG	A	4115	1/1	0.98	0.06	27,27,27,27	0
32	MG	A	3660	1/1	0.98	0.07	16,16,16,16	0
32	MG	A	4119	1/1	0.98	0.04	24,24,24,24	0
32	MG	a	4604	1/1	0.98	0.07	29,29,29,29	0
32	MG	A	4121	1/1	0.98	0.08	21,21,21,21	0
32	MG	a	4611	1/1	0.98	0.05	22,22,22,22	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	4127	1/1	0.98	0.03	14,14,14,14	0
32	MG	A	4128	1/1	0.98	0.02	21,21,21,21	0
32	MG	A	4130	1/1	0.98	0.03	25,25,25,25	0
32	MG	c	314	1/1	0.98	0.02	6,6,6,6	0
32	MG	c	315	1/1	0.98	0.09	95,95,95,95	0
32	MG	A	4132	1/1	0.98	0.07	32,32,32,32	0
32	MG	c	320	1/1	0.98	0.06	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	c	323	1/1	0.98	0.02	31,31,31,31	0
32	MG	A	4134	1/1	0.98	0.02	25,25,25,25	0
32	MG	c	332	1/1	0.98	0.02	26,26,26,26	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	e	319	1/1	0.98	0.02	3,3,3,3	0
32	MG	A	3757	1/1	0.98	0.05	95,95,95,95	0
32	MG	A	4146	1/1	0.98	0.02	23,23,23,23	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	A	4151	1/1	0.98	0.03	29,29,29,29	0
32	MG	g	208	1/1	0.98	0.02	26,26,26,26	0
32	MG	g	209	1/1	0.98	0.06	25,25,25,25	0
32	MG	A	4156	1/1	0.98	0.03	30,30,30,30	0
32	MG	h	213	1/1	0.98	0.02	22,22,22,22	0
32	MG	h	216	1/1	0.98	0.03	31,31,31,31	0
32	MG	h	218	1/1	0.98	0.02	25,25,25,25	0
32	MG	A	4158	1/1	0.98	0.04	25,25,25,25	0
32	MG	i	218	1/1	0.98	0.02	26,26,26,26	0
32	MG	A	4159	1/1	0.98	0.04	29,29,29,29	0
32	MG	i	220	1/1	0.98	0.02	29,29,29,29	0
32	MG	A	4166	1/1	0.98	0.04	29,29,29,29	0
32	MG	A	4171	1/1	0.98	0.02	35,35,35,35	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	209	1/1	0.98	0.02	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	0.04	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
32	MG	l	216	1/1	0.98	0.06	95,95,95,95	0
32	MG	m	208	1/1	0.98	0.03	16,16,16,16	0
32	MG	A	4178	1/1	0.98	0.02	25,25,25,25	0
32	MG	m	214	1/1	0.98	0.02	27,27,27,27	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	204	1/1	0.98	0.02	27,27,27,27	0
32	MG	A	3762	1/1	0.98	0.08	12,12,12,12	0
32	MG	o	213	1/1	0.98	0.05	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

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4187	1/1	0.98	0.02	27,27,27,27	0
32	MG	o	219	1/1	0.98	0.05	95,95,95,95	0
32	MG	o	222	1/1	0.98	0.05	31,31,31,31	0
32	MG	A	4193	1/1	0.98	0.05	28,28,28,28	0
32	MG	o	226	1/1	0.98	0.02	32,32,32,32	0
32	MG	o	227	1/1	0.98	0.02	23,23,23,23	0
32	MG	o	230	1/1	0.98	0.02	22,22,22,22	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	3766	1/1	0.98	0.03	3,3,3,3	0
32	MG	p	216	1/1	0.98	0.04	31,31,31,31	0
32	MG	q	213	1/1	0.98	0.02	28,28,28,28	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	0.03	29,29,29,29	0
32	MG	q	221	1/1	0.98	0.02	26,26,26,26	0
32	MG	q	223	1/1	0.98	0.02	22,22,22,22	0
32	MG	q	226	1/1	0.98	0.02	30,30,30,30	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	4200	1/1	0.98	0.02	28,28,28,28	0
32	MG	r	213	1/1	0.98	0.05	0,0,0,0	0
32	MG	r	217	1/1	0.98	0.05	28,28,28,28	0
32	MG	r	219	1/1	0.98	0.03	35,35,35,35	0
32	MG	A	4205	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	4206	1/1	0.98	0.03	27,27,27,27	0
32	MG	A	4209	1/1	0.98	0.03	27,27,27,27	0
32	MG	s	106	1/1	0.98	0.03	4,4,4,4	0
32	MG	u	318	1/1	0.98	0.03	95,95,95,95	0
32	MG	u	320	1/1	0.98	0.03	95,95,95,95	0
32	MG	u	321	1/1	0.98	0.07	12,12,12,12	0
32	MG	v	107	1/1	0.98	0.02	38,38,38,38	0
32	MG	v	110	1/1	0.98	0.03	26,26,26,26	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	0.05	24,24,24,24	0
32	MG	A	3768	1/1	0.98	0.07	67,67,67,67	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	0.08	95,95,95,95	0
32	MG	y	608	1/1	0.98	0.03	29,29,29,29	0
32	MG	z	503	1/1	0.98	0.03	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	z	504	1/1	0.98	0.02	26,26,26,26	0
32	MG	5	102	1/1	0.98	0.02	183,183,183,183	0
32	MG	6	507	1/1	0.98	0.02	31,31,31,31	0
32	MG	7	106	1/1	0.98	0.05	28,28,28,28	0
32	MG	8	106	1/1	0.98	0.08	38,38,38,38	0
32	MG	A	4221	1/1	0.98	0.02	27,27,27,27	0
33	ZN	Z	501	1/1	0.98	0.03	211,211,211,211	0
32	MG	A	4277	1/1	0.99	0.03	23,23,23,23	0
32	MG	A	3515	1/1	0.99	0.03	80,80,80,80	0
32	MG	A	4279	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	3758	1/1	0.99	0.07	95,95,95,95	0
32	MG	A	4281	1/1	0.99	0.02	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	0.03	4,4,4,4	0
32	MG	A	3516	1/1	0.99	0.03	63,63,63,63	0
32	MG	A	4286	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	4289	1/1	0.99	0.04	25,25,25,25	0
32	MG	A	3763	1/1	0.99	0.04	4,4,4,4	0
32	MG	A	3765	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3519	1/1	0.99	0.03	61,61,61,61	0
32	MG	A	3767	1/1	0.99	0.02	5,5,5,5	0
32	MG	A	4294	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4295	1/1	0.99	0.04	24,24,24,24	0
32	MG	A	3528	1/1	0.99	0.04	70,70,70,70	0
32	MG	A	3769	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4298	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4299	1/1	0.99	0.05	26,26,26,26	0
32	MG	A	4300	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4301	1/1	0.99	0.03	15,15,15,15	0
32	MG	A	4302	1/1	0.99	0.04	16,16,16,16	0
32	MG	A	4304	1/1	0.99	0.10	28,28,28,28	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	A	4308	1/1	0.99	0.05	30,30,30,30	0
32	MG	A	4309	1/1	0.99	0.06	25,25,25,25	0
32	MG	A	4310	1/1	0.99	0.04	15,15,15,15	0
32	MG	A	4311	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	4313	1/1	0.99	0.02	32,32,32,32	0
32	MG	A	4314	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	4315	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	4316	1/1	0.99	0.02	34,34,34,34	0
32	MG	A	4317	1/1	0.99	0.04	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4318	1/1	0.99	0.05	32,32,32,32	0
32	MG	A	3533	1/1	0.99	0.04	82,82,82,82	0
32	MG	A	3771	1/1	0.99	0.03	14,14,14,14	0
32	MG	A	4323	1/1	0.99	0.04	22,22,22,22	0
32	MG	A	3772	1/1	0.99	0.05	26,26,26,26	0
32	MG	A	4325	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	4326	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	4327	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	4328	1/1	0.99	0.01	22,22,22,22	0
32	MG	A	4329	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	3773	1/1	0.99	0.02	2,2,2,2	0
32	MG	A	4332	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	4333	1/1	0.99	0.02	22,22,22,22	0
32	MG	A	3775	1/1	0.99	0.07	4,4,4,4	0
32	MG	A	4337	1/1	0.99	0.03	33,33,33,33	0
32	MG	A	4338	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4340	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	3536	1/1	0.99	0.06	100,100,100,100	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	3777	1/1	0.99	0.04	20,20,20,20	0
32	MG	A	4345	1/1	0.99	0.04	32,32,32,32	0
32	MG	A	4346	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4347	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	3778	1/1	0.99	0.02	94,94,94,94	0
32	MG	A	4349	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	4350	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	3779	1/1	0.99	0.04	17,17,17,17	0
32	MG	A	4352	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	3780	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4354	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4355	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	4356	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3537	1/1	0.99	0.03	88,88,88,88	0
32	MG	A	4358	1/1	0.99	0.02	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	0.01	19,19,19,19	0
32	MG	A	3539	1/1	0.99	0.09	80,80,80,80	0
32	MG	A	3785	1/1	0.99	0.02	90,90,90,90	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

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4367	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4368	1/1	0.99	0.01	23,23,23,23	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	0.03	30,30,30,30	0
32	MG	A	3541	1/1	0.99	0.03	73,73,73,73	0
32	MG	A	3040	1/1	0.99	0.04	83,83,83,83	0
32	MG	A	3788	1/1	0.99	0.08	95,95,95,95	0
32	MG	A	3547	1/1	0.99	0.12	98,98,98,98	0
32	MG	A	3549	1/1	0.99	0.04	78,78,78,78	0
32	MG	A	4381	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4382	1/1	0.99	0.06	30,30,30,30	0
32	MG	B	211	1/1	0.99	0.02	72,72,72,72	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	223	1/1	0.99	0.04	69,69,69,69	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	0.05	95,95,95,95	0
32	MG	B	227	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3791	1/1	0.99	0.02	95,95,95,95	0
32	MG	B	229	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3562	1/1	0.99	0.06	70,70,70,70	0
32	MG	A	3793	1/1	0.99	0.01	15,15,15,15	0
32	MG	A	3794	1/1	0.99	0.02	7,7,7,7	0
32	MG	A	3795	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	3796	1/1	0.99	0.05	95,95,95,95	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	0.07	7,7,7,7	0
32	MG	C	317	1/1	0.99	0.07	8,8,8,8	0
32	MG	C	318	1/1	0.99	0.02	1,1,1,1	0
32	MG	A	3798	1/1	0.99	0.02	6,6,6,6	0
32	MG	C	320	1/1	0.99	0.05	36,36,36,36	0
32	MG	A	3800	1/1	0.99	0.03	13,13,13,13	0
32	MG	C	323	1/1	0.99	0.04	23,23,23,23	0
32	MG	C	324	1/1	0.99	0.03	20,20,20,20	0
32	MG	C	325	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	3801	1/1	0.99	0.03	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	C	327	1/1	0.99	0.02	27,27,27,27	0
32	MG	C	328	1/1	0.99	0.09	17,17,17,17	0
32	MG	C	329	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	3577	1/1	0.99	0.04	70,70,70,70	0
32	MG	A	3805	1/1	0.99	0.03	2,2,2,2	0
32	MG	C	334	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	3579	1/1	0.99	0.06	61,61,61,61	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	C	338	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	3807	1/1	0.99	0.03	31,31,31,31	0
32	MG	C	341	1/1	0.99	0.01	21,21,21,21	0
32	MG	C	342	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3808	1/1	0.99	0.02	34,34,34,34	0
32	MG	A	3581	1/1	0.99	0.06	77,77,77,77	0
32	MG	D	307	1/1	0.99	0.03	15,15,15,15	0
32	MG	E	311	1/1	0.99	0.05	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	E	314	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3582	1/1	0.99	0.04	65,65,65,65	0
32	MG	A	3811	1/1	0.99	0.03	19,19,19,19	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	A	3583	1/1	0.99	0.04	66,66,66,66	0
32	MG	E	322	1/1	0.99	0.01	15,15,15,15	0
32	MG	E	323	1/1	0.99	0.05	21,21,21,21	0
32	MG	A	3813	1/1	0.99	0.04	6,6,6,6	0
32	MG	A	3044	1/1	0.99	0.03	87,87,87,87	0
32	MG	E	326	1/1	0.99	0.02	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	0.03	28,28,28,28	0
32	MG	E	330	1/1	0.99	0.04	31,31,31,31	0
32	MG	F	204	1/1	0.99	0.02	20,20,20,20	0
32	MG	A	3048	1/1	0.99	0.02	79,79,79,79	0
32	MG	G	201	1/1	0.99	0.02	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	H	206	1/1	0.99	0.04	24,24,24,24	0
32	MG	H	207	1/1	0.99	0.01	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3050	1/1	0.99	0.02	89,89,89,89	0
32	MG	A	3817	1/1	0.99	0.02	95,95,95,95	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	3818	1/1	0.99	0.03	19,19,19,19	0
32	MG	J	204	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	3819	1/1	0.99	0.02	1,1,1,1	0
32	MG	J	206	1/1	0.99	0.02	15,15,15,15	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	0.05	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	K	209	1/1	0.99	0.02	6,6,6,6	0
32	MG	A	3820	1/1	0.99	0.02	16,16,16,16	0
32	MG	K	211	1/1	0.99	0.01	95,95,95,95	0
32	MG	K	213	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3821	1/1	0.99	0.02	9,9,9,9	0
32	MG	A	3603	1/1	0.99	0.03	95,95,95,95	0
32	MG	K	217	1/1	0.99	0.06	28,28,28,28	0
32	MG	K	219	1/1	0.99	0.01	26,26,26,26	0
32	MG	K	220	1/1	0.99	0.01	25,25,25,25	0
32	MG	A	3823	1/1	0.99	0.02	34,34,34,34	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	A	3824	1/1	0.99	0.02	95,95,95,95	0
32	MG	M	203	1/1	0.99	0.07	3,3,3,3	0
32	MG	A	3825	1/1	0.99	0.03	10,10,10,10	0
32	MG	O	203	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3826	1/1	0.99	0.05	5,5,5,5	0
32	MG	O	205	1/1	0.99	0.02	21,21,21,21	0
32	MG	O	208	1/1	0.99	0.02	95,95,95,95	0
32	MG	O	209	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3604	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3828	1/1	0.99	0.07	29,29,29,29	0
32	MG	P	206	1/1	0.99	0.02	14,14,14,14	0
32	MG	P	207	1/1	0.99	0.07	59,59,59,59	0
32	MG	Q	201	1/1	0.99	0.03	19,19,19,19	0
32	MG	A	3606	1/1	0.99	0.05	6,6,6,6	0
32	MG	Q	203	1/1	0.99	0.01	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
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	3607	1/1	0.99	0.07	7,7,7,7	0
32	MG	Q	209	1/1	0.99	0.01	21,21,21,21	0
32	MG	A	3831	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3832	1/1	0.99	0.04	18,18,18,18	0
32	MG	R	207	1/1	0.99	0.02	5,5,5,5	0
32	MG	R	208	1/1	0.99	0.03	1,1,1,1	0
32	MG	A	3833	1/1	0.99	0.02	4,4,4,4	0
32	MG	R	210	1/1	0.99	0.08	19,19,19,19	0
32	MG	A	3834	1/1	0.99	0.04	95,95,95,95	0
32	MG	R	212	1/1	0.99	0.06	24,24,24,24	0
32	MG	A	3835	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	R	215	1/1	0.99	0.03	23,23,23,23	0
32	MG	A	3608	1/1	0.99	0.12	23,23,23,23	0
32	MG	R	219	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	3837	1/1	0.99	0.05	1,1,1,1	0
32	MG	S	106	1/1	0.99	0.03	17,17,17,17	0
32	MG	S	108	1/1	0.99	0.02	26,26,26,26	0
32	MG	S	109	1/1	0.99	0.03	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	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	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	T	514	1/1	0.99	0.03	20,20,20,20	0
32	MG	T	515	1/1	0.99	0.02	25,25,25,25	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	T	518	1/1	0.99	0.02	24,24,24,24	0
32	MG	U	305	1/1	0.99	0.02	8,8,8,8	0
32	MG	U	306	1/1	0.99	0.05	9,9,9,9	0
32	MG	A	3844	1/1	0.99	0.04	95,95,95,95	0
32	MG	U	308	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	3845	1/1	0.99	0.06	95,95,95,95	0
32	MG	A	3846	1/1	0.99	0.02	5,5,5,5	0
32	MG	A	3847	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3051	1/1	0.99	0.04	120,120,120,120	0
32	MG	W	111	1/1	0.99	0.06	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	W	112	1/1	0.99	0.07	4,4,4,4	0
32	MG	W	114	1/1	0.99	0.02	2,2,2,2	0
32	MG	W	115	1/1	0.99	0.03	23,23,23,23	0
32	MG	X	106	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	3610	1/1	0.99	0.03	4,4,4,4	0
32	MG	A	3850	1/1	0.99	0.04	37,37,37,37	0
32	MG	A	3612	1/1	0.99	0.01	10,10,10,10	0
32	MG	X	111	1/1	0.99	0.03	26,26,26,26	0
32	MG	X	112	1/1	0.99	0.03	30,30,30,30	0
32	MG	X	113	1/1	0.99	0.02	31,31,31,31	0
32	MG	X	114	1/1	0.99	0.03	27,27,27,27	0
32	MG	X	115	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3613	1/1	0.99	0.04	23,23,23,23	0
32	MG	0	101	1/1	0.99	0.04	75,75,75,75	0
32	MG	0	103	1/1	0.99	0.08	95,95,95,95	0
32	MG	0	104	1/1	0.99	0.02	37,37,37,37	0
32	MG	A	3855	1/1	0.99	0.06	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	0.03	31,31,31,31	0
32	MG	2	103	1/1	0.99	0.04	63,63,63,63	0
32	MG	A	3856	1/1	0.99	0.03	8,8,8,8	0
32	MG	2	107	1/1	0.99	0.04	1,1,1,1	0
32	MG	2	108	1/1	0.99	0.04	31,31,31,31	0
32	MG	2	109	1/1	0.99	0.04	27,27,27,27	0
32	MG	2	110	1/1	0.99	0.13	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	0.03	48,48,48,48	0
32	MG	a	3027	1/1	0.99	0.06	71,71,71,71	0
32	MG	a	3052	1/1	0.99	0.03	51,51,51,51	0
32	MG	a	3079	1/1	0.99	0.04	89,89,89,89	0
32	MG	a	3094	1/1	0.99	0.03	93,93,93,93	0
32	MG	A	3858	1/1	0.99	0.03	1,1,1,1	0
32	MG	A	3614	1/1	0.99	0.03	3,3,3,3	0
32	MG	a	3190	1/1	0.99	0.08	51,51,51,51	0
32	MG	A	3618	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	3235	1/1	0.99	0.03	55,55,55,55	0
32	MG	a	3242	1/1	0.99	0.04	56,56,56,56	0
32	MG	a	3247	1/1	0.99	0.04	60,60,60,60	0
32	MG	a	3274	1/1	0.99	0.04	61,61,61,61	0
32	MG	A	3862	1/1	0.99	0.03	5,5,5,5	0
32	MG	a	3276	1/1	0.99	0.03	56,56,56,56	0
32	MG	a	3278	1/1	0.99	0.04	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3283	1/1	0.99	0.03	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	3864	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	3304	1/1	0.99	0.03	47,47,47,47	0
32	MG	A	3865	1/1	0.99	0.04	1,1,1,1	0
32	MG	a	3312	1/1	0.99	0.04	76,76,76,76	0
32	MG	A	3619	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	3333	1/1	0.99	0.03	50,50,50,50	0
32	MG	a	3342	1/1	0.99	0.05	68,68,68,68	0
32	MG	a	3348	1/1	0.99	0.04	56,56,56,56	0
32	MG	A	3867	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	3371	1/1	0.99	0.02	115,115,115,115	0
32	MG	a	3375	1/1	0.99	0.04	75,75,75,75	0
32	MG	a	3388	1/1	0.99	0.07	66,66,66,66	0
32	MG	a	3394	1/1	0.99	0.05	71,71,71,71	0
32	MG	a	3416	1/1	0.99	0.03	64,64,64,64	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	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
32	MG	a	3477	1/1	0.99	0.03	62,62,62,62	0
32	MG	a	3479	1/1	0.99	0.04	79,79,79,79	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	0.04	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	0.04	66,66,66,66	0
32	MG	a	3522	1/1	0.99	0.02	60,60,60,60	0
32	MG	a	3527	1/1	0.99	0.07	42,42,42,42	0
32	MG	A	3015	1/1	0.99	0.03	53,53,53,53	0
32	MG	a	3533	1/1	0.99	0.04	60,60,60,60	0
32	MG	a	3541	1/1	0.99	0.03	100,100,100,100	0
32	MG	a	3542	1/1	0.99	0.06	56,56,56,56	0
32	MG	a	3548	1/1	0.99	0.03	69,69,69,69	0
32	MG	a	3550	1/1	0.99	0.05	84,84,84,84	0
32	MG	a	3554	1/1	0.99	0.03	71,71,71,71	0
32	MG	a	3582	1/1	0.99	0.06	104,104,104,104	0
32	MG	a	3586	1/1	0.99	0.02	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3591	1/1	0.99	0.06	102,102,102,102	0
32	MG	A	3870	1/1	0.99	0.01	14,14,14,14	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	0.05	93,93,93,93	0
32	MG	a	3638	1/1	0.99	0.04	75,75,75,75	0
32	MG	a	3641	1/1	0.99	0.03	70,70,70,70	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	0.08	115,115,115,115	0
32	MG	A	3871	1/1	0.99	0.04	95,95,95,95	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	0.02	70,70,70,70	0
32	MG	a	3675	1/1	0.99	0.02	86,86,86,86	0
32	MG	a	3679	1/1	0.99	0.05	86,86,86,86	0
32	MG	a	3680	1/1	0.99	0.05	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	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	0.03	77,77,77,77	0
32	MG	a	3708	1/1	0.99	0.03	86,86,86,86	0
32	MG	A	3070	1/1	0.99	0.03	85,85,85,85	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	3874	1/1	0.99	0.03	72,72,72,72	0
32	MG	A	3876	1/1	0.99	0.04	18,18,18,18	0
32	MG	a	3729	1/1	0.99	0.02	77,77,77,77	0
32	MG	a	3736	1/1	0.99	0.03	73,73,73,73	0
32	MG	a	3744	1/1	0.99	0.06	70,70,70,70	0
32	MG	a	3745	1/1	0.99	0.06	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	0.06	72,72,72,72	0
32	MG	a	3768	1/1	0.99	0.07	84,84,84,84	0
32	MG	a	3770	1/1	0.99	0.06	75,75,75,75	0
32	MG	a	3784	1/1	0.99	0.02	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3789	1/1	0.99	0.03	62,62,62,62	0
32	MG	a	3791	1/1	0.99	0.06	117,117,117,117	0
32	MG	a	3794	1/1	0.99	0.03	59,59,59,59	0
32	MG	a	3795	1/1	0.99	0.03	103,103,103,103	0
32	MG	A	3877	1/1	0.99	0.05	22,22,22,22	0
32	MG	a	3805	1/1	0.99	0.07	95,95,95,95	0
32	MG	A	3078	1/1	0.99	0.02	146,146,146,146	0
32	MG	a	3807	1/1	0.99	0.04	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	3623	1/1	0.99	0.04	3,3,3,3	0
32	MG	a	3811	1/1	0.99	0.03	19,19,19,19	0
32	MG	A	3625	1/1	0.99	0.03	15,15,15,15	0
32	MG	a	3814	1/1	0.99	0.14	16,16,16,16	0
32	MG	A	3884	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3817	1/1	0.99	0.03	19,19,19,19	0
32	MG	A	3885	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3820	1/1	0.99	0.03	4,4,4,4	0
32	MG	A	3886	1/1	0.99	0.03	17,17,17,17	0
32	MG	a	3822	1/1	0.99	0.06	17,17,17,17	0
32	MG	A	3887	1/1	0.99	0.04	24,24,24,24	0
32	MG	a	3824	1/1	0.99	0.06	15,15,15,15	0
32	MG	a	3827	1/1	0.99	0.06	29,29,29,29	0
32	MG	A	3888	1/1	0.99	0.03	1,1,1,1	0
32	MG	a	3831	1/1	0.99	0.05	4,4,4,4	0
32	MG	a	3833	1/1	0.99	0.06	95,95,95,95	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	3841	1/1	0.99	0.04	2,2,2,2	0
32	MG	a	3843	1/1	0.99	0.04	1,1,1,1	0
32	MG	a	3844	1/1	0.99	0.04	2,2,2,2	0
32	MG	a	3845	1/1	0.99	0.04	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	0.06	19,19,19,19	0
32	MG	a	3848	1/1	0.99	0.05	26,26,26,26	0
32	MG	a	3851	1/1	0.99	0.04	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	3628	1/1	0.99	0.08	8,8,8,8	0
32	MG	a	3855	1/1	0.99	0.06	31,31,31,31	0
32	MG	A	3890	1/1	0.99	0.01	47,47,47,47	0
32	MG	a	3858	1/1	0.99	0.03	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3862	1/1	0.99	0.05	81,81,81,81	0
32	MG	a	3863	1/1	0.99	0.04	1,1,1,1	0
32	MG	a	3864	1/1	0.99	0.04	5,5,5,5	0
32	MG	A	3891	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	3868	1/1	0.99	0.03	7,7,7,7	0
32	MG	a	3869	1/1	0.99	0.07	2,2,2,2	0
32	MG	a	3870	1/1	0.99	0.04	59,59,59,59	0
32	MG	A	3892	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	3872	1/1	0.99	0.05	16,16,16,16	0
32	MG	a	3873	1/1	0.99	0.04	6,6,6,6	0
32	MG	a	3874	1/1	0.99	0.03	1,1,1,1	0
32	MG	a	3875	1/1	0.99	0.03	43,43,43,43	0
32	MG	A	3893	1/1	0.99	0.02	17,17,17,17	0
32	MG	A	3629	1/1	0.99	0.02	3,3,3,3	0
32	MG	A	3895	1/1	0.99	0.02	2,2,2,2	0
32	MG	a	3880	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3881	1/1	0.99	0.05	52,52,52,52	0
32	MG	A	3631	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	3883	1/1	0.99	0.02	4,4,4,4	0
32	MG	a	3884	1/1	0.99	0.08	14,14,14,14	0
32	MG	a	3886	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3897	1/1	0.99	0.02	37,37,37,37	0
32	MG	A	3632	1/1	0.99	0.05	23,23,23,23	0
32	MG	a	3890	1/1	0.99	0.02	0,0,0,0	0
32	MG	A	3899	1/1	0.99	0.03	7,7,7,7	0
32	MG	a	3893	1/1	0.99	0.02	0,0,0,0	0
32	MG	a	3894	1/1	0.99	0.06	11,11,11,11	0
32	MG	A	3900	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3901	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	3897	1/1	0.99	0.05	0,0,0,0	0
32	MG	A	3902	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	3903	1/1	0.99	0.04	2,2,2,2	0
32	MG	A	3904	1/1	0.99	0.03	9,9,9,9	0
32	MG	A	3905	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3905	1/1	0.99	0.03	6,6,6,6	0
32	MG	A	3907	1/1	0.99	0.02	6,6,6,6	0
32	MG	a	3907	1/1	0.99	0.05	4,4,4,4	0
32	MG	a	3908	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	3908	1/1	0.99	0.02	44,44,44,44	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	3913	1/1	0.99	0.10	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3917	1/1	0.99	0.02	9,9,9,9	0
32	MG	a	3918	1/1	0.99	0.02	68,68,68,68	0
32	MG	a	3920	1/1	0.99	0.04	28,28,28,28	0
32	MG	a	3921	1/1	0.99	0.03	6,6,6,6	0
32	MG	A	3910	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3923	1/1	0.99	0.10	10,10,10,10	0
32	MG	A	3152	1/1	0.99	0.05	38,38,38,38	0
32	MG	a	3925	1/1	0.99	0.07	11,11,11,11	0
32	MG	a	3926	1/1	0.99	0.02	4,4,4,4	0
32	MG	a	3927	1/1	0.99	0.04	4,4,4,4	0
32	MG	a	3929	1/1	0.99	0.11	95,95,95,95	0
32	MG	a	3931	1/1	0.99	0.03	73,73,73,73	0
32	MG	a	3932	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	3933	1/1	0.99	0.03	49,49,49,49	0
32	MG	A	3912	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	3935	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3936	1/1	0.99	0.06	6,6,6,6	0
32	MG	a	3937	1/1	0.99	0.05	49,49,49,49	0
32	MG	A	3634	1/1	0.99	0.06	39,39,39,39	0
32	MG	a	3939	1/1	0.99	0.02	0,0,0,0	0
32	MG	A	3914	1/1	0.99	0.04	0,0,0,0	0
32	MG	a	3941	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3943	1/1	0.99	0.03	7,7,7,7	0
32	MG	a	3944	1/1	0.99	0.03	10,10,10,10	0
32	MG	a	3945	1/1	0.99	0.02	14,14,14,14	0
32	MG	A	3635	1/1	0.99	0.04	53,53,53,53	0
32	MG	a	3948	1/1	0.99	0.03	7,7,7,7	0
32	MG	A	3916	1/1	0.99	0.01	2,2,2,2	0
32	MG	A	3917	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	3951	1/1	0.99	0.03	15,15,15,15	0
32	MG	a	3952	1/1	0.99	0.02	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	0.03	34,34,34,34	0
32	MG	A	3636	1/1	0.99	0.07	7,7,7,7	0
32	MG	A	3637	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	3959	1/1	0.99	0.02	7,7,7,7	0
32	MG	A	3921	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3961	1/1	0.99	0.05	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	3922	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	3965	1/1	0.99	0.03	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3966	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	3967	1/1	0.99	0.07	103,103,103,103	0
32	MG	a	3968	1/1	0.99	0.02	47,47,47,47	0
32	MG	A	3923	1/1	0.99	0.06	46,46,46,46	0
32	MG	a	3971	1/1	0.99	0.04	21,21,21,21	0
32	MG	a	3972	1/1	0.99	0.10	6,6,6,6	0
32	MG	A	3924	1/1	0.99	0.03	4,4,4,4	0
32	MG	a	3974	1/1	0.99	0.03	3,3,3,3	0
32	MG	A	3162	1/1	0.99	0.03	47,47,47,47	0
32	MG	a	3976	1/1	0.99	0.13	6,6,6,6	0
32	MG	A	3928	1/1	0.99	0.04	46,46,46,46	0
32	MG	a	3978	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	3979	1/1	0.99	0.05	23,23,23,23	0
32	MG	A	3639	1/1	0.99	0.06	19,19,19,19	0
32	MG	a	3981	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	3930	1/1	0.99	0.10	95,95,95,95	0
32	MG	A	3931	1/1	0.99	0.03	10,10,10,10	0
32	MG	a	3986	1/1	0.99	0.02	5,5,5,5	0
32	MG	A	3641	1/1	0.99	0.04	25,25,25,25	0
32	MG	A	3933	1/1	0.99	0.03	6,6,6,6	0
32	MG	A	3643	1/1	0.99	0.07	95,95,95,95	0
32	MG	A	3937	1/1	0.99	0.02	18,18,18,18	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	0.04	95,95,95,95	0
32	MG	a	3995	1/1	0.99	0.05	22,22,22,22	0
32	MG	a	3996	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	3997	1/1	0.99	0.05	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	0.06	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	0.04	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	0.06	85,85,85,85	0
32	MG	A	3938	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4009	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3939	1/1	0.99	0.03	1,1,1,1	0
32	MG	A	3644	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4014	1/1	0.99	0.04	60,60,60,60	0
32	MG	a	4015	1/1	0.99	0.04	10,10,10,10	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3180	1/1	0.99	0.04	61,61,61,61	0
32	MG	a	4018	1/1	0.99	0.05	31,31,31,31	0
32	MG	a	4019	1/1	0.99	0.04	13,13,13,13	0
32	MG	A	3943	1/1	0.99	0.09	95,95,95,95	0
32	MG	A	3944	1/1	0.99	0.03	9,9,9,9	0
32	MG	a	4022	1/1	0.99	0.04	25,25,25,25	0
32	MG	A	3198	1/1	0.99	0.03	54,54,54,54	0
32	MG	a	4026	1/1	0.99	0.03	11,11,11,11	0
32	MG	a	4027	1/1	0.99	0.03	15,15,15,15	0
32	MG	a	4028	1/1	0.99	0.04	31,31,31,31	0
32	MG	A	3947	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	4030	1/1	0.99	0.02	0,0,0,0	0
32	MG	A	3949	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	4033	1/1	0.99	0.05	11,11,11,11	0
32	MG	a	4034	1/1	0.99	0.05	15,15,15,15	0
32	MG	A	3950	1/1	0.99	0.04	5,5,5,5	0
32	MG	a	4039	1/1	0.99	0.04	2,2,2,2	0
32	MG	a	4040	1/1	0.99	0.08	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	3951	1/1	0.99	0.04	24,24,24,24	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	3952	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	4049	1/1	0.99	0.02	2,2,2,2	0
32	MG	A	3953	1/1	0.99	0.03	7,7,7,7	0
32	MG	A	3954	1/1	0.99	0.04	46,46,46,46	0
32	MG	A	3208	1/1	0.99	0.03	51,51,51,51	0
32	MG	a	4054	1/1	0.99	0.04	1,1,1,1	0
32	MG	A	3231	1/1	0.99	0.04	70,70,70,70	0
32	MG	a	4056	1/1	0.99	0.03	1,1,1,1	0
32	MG	A	3653	1/1	0.99	0.10	95,95,95,95	0
32	MG	a	4059	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	4060	1/1	0.99	0.01	21,21,21,21	0
32	MG	A	3654	1/1	0.99	0.08	95,95,95,95	0
32	MG	a	4063	1/1	0.99	0.04	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	3234	1/1	0.99	0.03	77,77,77,77	0
32	MG	a	4067	1/1	0.99	0.10	54,54,54,54	0
32	MG	a	4068	1/1	0.99	0.03	3,3,3,3	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3962	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	4070	1/1	0.99	0.02	38,38,38,38	0
32	MG	a	4071	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	4072	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4073	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4074	1/1	0.99	0.03	44,44,44,44	0
32	MG	A	3963	1/1	0.99	0.03	2,2,2,2	0
32	MG	a	4077	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	4078	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	4080	1/1	0.99	0.05	95,95,95,95	0
32	MG	A	3964	1/1	0.99	0.03	3,3,3,3	0
32	MG	a	4082	1/1	0.99	0.04	0,0,0,0	0
32	MG	A	3965	1/1	0.99	0.04	8,8,8,8	0
32	MG	A	3968	1/1	0.99	0.08	22,22,22,22	0
32	MG	A	3970	1/1	0.99	0.03	0,0,0,0	0
32	MG	A	3238	1/1	0.99	0.04	68,68,68,68	0
32	MG	A	3972	1/1	0.99	0.07	20,20,20,20	0
32	MG	a	4088	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	4090	1/1	0.99	0.04	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	4094	1/1	0.99	0.03	10,10,10,10	0
32	MG	a	4095	1/1	0.99	0.06	12,12,12,12	0
32	MG	A	3973	1/1	0.99	0.04	17,17,17,17	0
32	MG	a	4097	1/1	0.99	0.03	21,21,21,21	0
32	MG	a	4098	1/1	0.99	0.04	61,61,61,61	0
32	MG	A	3975	1/1	0.99	0.03	35,35,35,35	0
32	MG	A	3977	1/1	0.99	0.04	16,16,16,16	0
32	MG	A	3978	1/1	0.99	0.04	67,67,67,67	0
32	MG	A	3979	1/1	0.99	0.10	6,6,6,6	0
32	MG	A	3980	1/1	0.99	0.05	51,51,51,51	0
32	MG	A	3983	1/1	0.99	0.04	8,8,8,8	0
32	MG	a	4110	1/1	0.99	0.02	0,0,0,0	0
32	MG	A	3987	1/1	0.99	0.03	27,27,27,27	0
32	MG	a	4113	1/1	0.99	0.02	35,35,35,35	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	3246	1/1	0.99	0.03	54,54,54,54	0
32	MG	a	4118	1/1	0.99	0.02	0,0,0,0	0
32	MG	a	4119	1/1	0.99	0.04	32,32,32,32	0
32	MG	A	3247	1/1	0.99	0.05	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4121	1/1	0.99	0.02	45,45,45,45	0
32	MG	a	4122	1/1	0.99	0.02	16,16,16,16	0
32	MG	A	3990	1/1	0.99	0.02	16,16,16,16	0
32	MG	A	3991	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	3992	1/1	0.99	0.02	33,33,33,33	0
32	MG	a	4129	1/1	0.99	0.02	3,3,3,3	0
32	MG	a	4130	1/1	0.99	0.02	14,14,14,14	0
32	MG	A	3663	1/1	0.99	0.04	11,11,11,11	0
32	MG	A	3664	1/1	0.99	0.03	11,11,11,11	0
32	MG	a	4134	1/1	0.99	0.07	21,21,21,21	0
32	MG	A	3997	1/1	0.99	0.03	22,22,22,22	0
32	MG	a	4136	1/1	0.99	0.03	7,7,7,7	0
32	MG	A	3998	1/1	0.99	0.05	60,60,60,60	0
32	MG	A	3999	1/1	0.99	0.02	15,15,15,15	0
32	MG	A	4000	1/1	0.99	0.04	12,12,12,12	0
32	MG	a	4140	1/1	0.99	0.01	2,2,2,2	0
32	MG	A	4001	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	4143	1/1	0.99	0.01	3,3,3,3	0
32	MG	A	4002	1/1	0.99	0.06	18,18,18,18	0
32	MG	a	4146	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4004	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	4148	1/1	0.99	0.02	49,49,49,49	0
32	MG	A	3665	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4006	1/1	0.99	0.02	38,38,38,38	0
32	MG	a	4151	1/1	0.99	0.03	3,3,3,3	0
32	MG	A	4007	1/1	0.99	0.01	15,15,15,15	0
32	MG	A	4008	1/1	0.99	0.02	22,22,22,22	0
32	MG	a	4155	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4156	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4009	1/1	0.99	0.09	40,40,40,40	0
32	MG	a	4158	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4012	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	4161	1/1	0.99	0.04	0,0,0,0	0
32	MG	a	4162	1/1	0.99	0.05	17,17,17,17	0
32	MG	A	4013	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4014	1/1	0.99	0.01	18,18,18,18	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	4015	1/1	0.99	0.03	21,21,21,21	0
32	MG	A	3666	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4170	1/1	0.99	0.04	95,95,95,95	0
32	MG	a	4171	1/1	0.99	0.03	15,15,15,15	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4174	1/1	0.99	0.01	3,3,3,3	0
32	MG	A	4017	1/1	0.99	0.03	38,38,38,38	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	3264	1/1	0.99	0.04	64,64,64,64	0
32	MG	A	4020	1/1	0.99	0.04	64,64,64,64	0
32	MG	A	4021	1/1	0.99	0.02	22,22,22,22	0
32	MG	a	4182	1/1	0.99	0.01	5,5,5,5	0
32	MG	a	4183	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	3669	1/1	0.99	0.06	6,6,6,6	0
32	MG	a	4186	1/1	0.99	0.05	7,7,7,7	0
32	MG	a	4187	1/1	0.99	0.09	95,95,95,95	0
32	MG	a	4188	1/1	0.99	0.06	55,55,55,55	0
32	MG	A	3670	1/1	0.99	0.09	95,95,95,95	0
32	MG	a	4191	1/1	0.99	0.06	4,4,4,4	0
32	MG	A	4024	1/1	0.99	0.02	23,23,23,23	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	0.03	29,29,29,29	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	4199	1/1	0.99	0.02	3,3,3,3	0
32	MG	a	4201	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	4203	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	4204	1/1	0.99	0.08	95,95,95,95	0
32	MG	A	4027	1/1	0.99	0.03	14,14,14,14	0
32	MG	A	3671	1/1	0.99	0.12	1,1,1,1	0
32	MG	a	4207	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	4029	1/1	0.99	0.02	21,21,21,21	0
32	MG	a	4211	1/1	0.99	0.02	3,3,3,3	0
32	MG	A	4030	1/1	0.99	0.04	19,19,19,19	0
32	MG	a	4215	1/1	0.99	0.03	19,19,19,19	0
32	MG	a	4216	1/1	0.99	0.03	12,12,12,12	0
32	MG	a	4217	1/1	0.99	0.05	9,9,9,9	0
32	MG	a	4218	1/1	0.99	0.06	43,43,43,43	0
32	MG	a	4219	1/1	0.99	0.05	5,5,5,5	0
32	MG	A	3672	1/1	0.99	0.06	8,8,8,8	0
32	MG	A	4032	1/1	0.99	0.03	25,25,25,25	0
32	MG	a	4223	1/1	0.99	0.07	13,13,13,13	0
32	MG	A	3673	1/1	0.99	0.05	7,7,7,7	0
32	MG	A	4034	1/1	0.99	0.01	30,30,30,30	0
32	MG	a	4226	1/1	0.99	0.05	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
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	0.07	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	0.03	1,1,1,1	0
32	MG	A	3675	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	4236	1/1	0.99	0.04	9,9,9,9	0
32	MG	a	4237	1/1	0.99	0.05	15,15,15,15	0
32	MG	a	4238	1/1	0.99	0.03	11,11,11,11	0
32	MG	a	4241	1/1	0.99	0.06	41,41,41,41	0
32	MG	a	4242	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	4036	1/1	0.99	0.01	26,26,26,26	0
32	MG	a	4245	1/1	0.99	0.03	4,4,4,4	0
32	MG	A	4037	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4247	1/1	0.99	0.02	0,0,0,0	0
32	MG	a	4250	1/1	0.99	0.05	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	0.07	95,95,95,95	0
32	MG	a	4255	1/1	0.99	0.07	95,95,95,95	0
32	MG	a	4257	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	4038	1/1	0.99	0.01	19,19,19,19	0
32	MG	a	4259	1/1	0.99	0.03	18,18,18,18	0
32	MG	A	3273	1/1	0.99	0.04	51,51,51,51	0
32	MG	a	4261	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4262	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4264	1/1	0.99	0.02	22,22,22,22	0
32	MG	a	4265	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4266	1/1	0.99	0.01	23,23,23,23	0
32	MG	a	4267	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4042	1/1	0.99	0.02	16,16,16,16	0
32	MG	A	4043	1/1	0.99	0.02	26,26,26,26	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	0.04	24,24,24,24	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4277	1/1	0.99	0.05	34,34,34,34	0
32	MG	a	4278	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4044	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4281	1/1	0.99	0.05	25,25,25,25	0
32	MG	A	4045	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	4046	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	3677	1/1	0.99	0.02	1,1,1,1	0
32	MG	a	4285	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	4048	1/1	0.99	0.02	24,24,24,24	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	3280	1/1	0.99	0.03	51,51,51,51	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	4050	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4051	1/1	0.99	0.02	23,23,23,23	0
32	MG	a	4297	1/1	0.99	0.04	26,26,26,26	0
32	MG	A	3281	1/1	0.99	0.05	59,59,59,59	0
32	MG	a	4299	1/1	0.99	0.02	30,30,30,30	0
32	MG	a	4300	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	4053	1/1	0.99	0.03	24,24,24,24	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	0.03	21,21,21,21	0
32	MG	a	4307	1/1	0.99	0.02	23,23,23,23	0
32	MG	a	4309	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	4054	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4056	1/1	0.99	0.04	26,26,26,26	0
32	MG	A	4057	1/1	0.99	0.02	22,22,22,22	0
32	MG	A	3682	1/1	0.99	0.04	6,6,6,6	0
32	MG	A	4059	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4060	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	3294	1/1	0.99	0.03	90,90,90,90	0
32	MG	A	4062	1/1	0.99	0.03	19,19,19,19	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	4063	1/1	0.99	0.04	28,28,28,28	0
32	MG	a	4321	1/1	0.99	0.02	19,19,19,19	0
32	MG	a	4323	1/1	0.99	0.03	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4324	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4325	1/1	0.99	0.04	28,28,28,28	0
32	MG	a	4326	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	4064	1/1	0.99	0.05	26,26,26,26	0
32	MG	A	4065	1/1	0.99	0.04	37,37,37,37	0
32	MG	A	3684	1/1	0.99	0.04	20,20,20,20	0
32	MG	a	4334	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4069	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4070	1/1	0.99	0.01	28,28,28,28	0
32	MG	a	4337	1/1	0.99	0.03	29,29,29,29	0
32	MG	a	4338	1/1	0.99	0.02	21,21,21,21	0
32	MG	a	4339	1/1	0.99	0.07	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	0.04	32,32,32,32	0
32	MG	A	4071	1/1	0.99	0.02	29,29,29,29	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	4072	1/1	0.99	0.07	35,35,35,35	0
32	MG	a	4351	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4352	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3301	1/1	0.99	0.03	70,70,70,70	0
32	MG	a	4354	1/1	0.99	0.02	22,22,22,22	0
32	MG	a	4355	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3686	1/1	0.99	0.03	14,14,14,14	0
32	MG	A	4075	1/1	0.99	0.02	21,21,21,21	0
32	MG	a	4359	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4076	1/1	0.99	0.01	24,24,24,24	0
32	MG	a	4362	1/1	0.99	0.02	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	4366	1/1	0.99	0.01	30,30,30,30	0
32	MG	a	4367	1/1	0.99	0.01	31,31,31,31	0
32	MG	a	4368	1/1	0.99	0.03	32,32,32,32	0
32	MG	a	4369	1/1	0.99	0.04	27,27,27,27	0
32	MG	A	4077	1/1	0.99	0.02	23,23,23,23	0
32	MG	a	4371	1/1	0.99	0.03	33,33,33,33	0
32	MG	a	4372	1/1	0.99	0.05	24,24,24,24	0
32	MG	A	4078	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	3687	1/1	0.99	0.03	11,11,11,11	0
32	MG	A	4081	1/1	0.99	0.04	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4376	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	3688	1/1	0.99	0.04	8,8,8,8	0
32	MG	a	4378	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4083	1/1	0.99	0.04	26,26,26,26	0
32	MG	a	4380	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4381	1/1	0.99	0.03	26,26,26,26	0
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	0.04	19,19,19,19	0
32	MG	a	4387	1/1	0.99	0.01	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	3689	1/1	0.99	0.03	9,9,9,9	0
32	MG	A	3690	1/1	0.99	0.05	95,95,95,95	0
32	MG	a	4393	1/1	0.99	0.02	14,14,14,14	0
32	MG	A	4086	1/1	0.99	0.05	29,29,29,29	0
32	MG	A	4088	1/1	0.99	0.04	31,31,31,31	0
32	MG	A	3691	1/1	0.99	0.06	13,13,13,13	0
32	MG	a	4397	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4398	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4090	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	3305	1/1	0.99	0.06	63,63,63,63	0
32	MG	a	4402	1/1	0.99	0.03	24,24,24,24	0
32	MG	A	4092	1/1	0.99	0.07	24,24,24,24	0
32	MG	a	4404	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	4093	1/1	0.99	0.04	28,28,28,28	0
32	MG	A	4095	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	3694	1/1	0.99	0.07	7,7,7,7	0
32	MG	a	4408	1/1	0.99	0.02	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	3695	1/1	0.99	0.03	95,95,95,95	0
32	MG	a	4414	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4415	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4416	1/1	0.99	0.02	35,35,35,35	0
32	MG	A	4099	1/1	0.99	0.02	32,32,32,32	0
32	MG	A	3316	1/1	0.99	0.04	74,74,74,74	0
32	MG	a	4419	1/1	0.99	0.02	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	3318	1/1	0.99	0.07	55,55,55,55	0
32	MG	a	4424	1/1	0.99	0.04	14,14,14,14	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4426	1/1	0.99	0.06	31,31,31,31	0
32	MG	A	4102	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	4103	1/1	0.99	0.02	16,16,16,16	0
32	MG	a	4429	1/1	0.99	0.04	30,30,30,30	0
32	MG	a	4430	1/1	0.99	0.04	31,31,31,31	0
32	MG	a	4431	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4434	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3698	1/1	0.99	0.05	38,38,38,38	0
32	MG	a	4436	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4105	1/1	0.99	0.04	27,27,27,27	0
32	MG	a	4441	1/1	0.99	0.03	27,27,27,27	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	3699	1/1	0.99	0.04	42,42,42,42	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	4449	1/1	0.99	0.02	30,30,30,30	0
32	MG	a	4450	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	4107	1/1	0.99	0.05	19,19,19,19	0
32	MG	A	3323	1/1	0.99	0.04	79,79,79,79	0
32	MG	a	4453	1/1	0.99	0.04	21,21,21,21	0
32	MG	A	4110	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	4455	1/1	0.99	0.02	30,30,30,30	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	4114	1/1	0.99	0.03	27,27,27,27	0
32	MG	a	4460	1/1	0.99	0.04	27,27,27,27	0
32	MG	a	4461	1/1	0.99	0.04	28,28,28,28	0
32	MG	A	3334	1/1	0.99	0.03	43,43,43,43	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	0.06	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	0.02	28,28,28,28	0
32	MG	A	3335	1/1	0.99	0.04	66,66,66,66	0
32	MG	a	4470	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4118	1/1	0.99	0.04	21,21,21,21	0
32	MG	a	4475	1/1	0.99	0.03	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	3344	1/1	0.99	0.04	71,71,71,71	0
32	MG	a	4480	1/1	0.99	0.03	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4481	1/1	0.99	0.03	28,28,28,28	0
32	MG	a	4482	1/1	0.99	0.03	24,24,24,24	0
32	MG	a	4483	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4120	1/1	0.99	0.04	27,27,27,27	0
32	MG	a	4485	1/1	0.99	0.02	32,32,32,32	0
32	MG	A	3705	1/1	0.99	0.04	12,12,12,12	0
32	MG	a	4487	1/1	0.99	0.03	34,34,34,34	0
32	MG	a	4488	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	4489	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4490	1/1	0.99	0.03	29,29,29,29	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	4123	1/1	0.99	0.03	23,23,23,23	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	0.02	27,27,27,27	0
32	MG	a	4497	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	4498	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4124	1/1	0.99	0.04	30,30,30,30	0
32	MG	A	4125	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3355	1/1	0.99	0.03	60,60,60,60	0
32	MG	a	4504	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	3708	1/1	0.99	0.07	95,95,95,95	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	4129	1/1	0.99	0.06	25,25,25,25	0
32	MG	A	3709	1/1	0.99	0.02	95,95,95,95	0
32	MG	a	4511	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4513	1/1	0.99	0.01	26,26,26,26	0
32	MG	A	4131	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3362	1/1	0.99	0.04	70,70,70,70	0
32	MG	a	4516	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4517	1/1	0.99	0.01	35,35,35,35	0
32	MG	a	4518	1/1	0.99	0.01	24,24,24,24	0
32	MG	a	4519	1/1	0.99	0.02	20,20,20,20	0
32	MG	a	4520	1/1	0.99	0.02	19,19,19,19	0
32	MG	A	4133	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4522	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	3713	1/1	0.99	0.04	39,39,39,39	0
32	MG	a	4524	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4525	1/1	0.99	0.03	27,27,27,27	0
32	MG	a	4526	1/1	0.99	0.02	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	a	4528	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	3714	1/1	0.99	0.10	17,17,17,17	0
32	MG	a	4530	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4136	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3717	1/1	0.99	0.05	6,6,6,6	0
32	MG	a	4534	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4139	1/1	0.99	0.01	26,26,26,26	0
32	MG	a	4536	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4537	1/1	0.99	0.04	24,24,24,24	0
32	MG	a	4539	1/1	0.99	0.03	31,31,31,31	0
32	MG	A	4140	1/1	0.99	0.02	25,25,25,25	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	4548	1/1	0.99	0.02	34,34,34,34	0
32	MG	a	4549	1/1	0.99	0.02	31,31,31,31	0
32	MG	a	4550	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	4141	1/1	0.99	0.02	24,24,24,24	0
32	MG	a	4552	1/1	0.99	0.02	31,31,31,31	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	4143	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4561	1/1	0.99	0.03	27,27,27,27	0
32	MG	a	4563	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3718	1/1	0.99	0.04	11,11,11,11	0
32	MG	a	4565	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4566	1/1	0.99	0.06	31,31,31,31	0
32	MG	a	4567	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4570	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4573	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4145	1/1	0.99	0.02	25,25,25,25	0
32	MG	a	4575	1/1	0.99	0.03	24,24,24,24	0
32	MG	a	4576	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	3720	1/1	0.99	0.07	14,14,14,14	0
32	MG	a	4578	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4147	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4148	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4581	1/1	0.99	0.02	26,26,26,26	0
32	MG	a	4582	1/1	0.99	0.01	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4585	1/1	0.99	0.05	26,26,26,26	0
32	MG	A	4149	1/1	0.99	0.02	29,29,29,29	0
32	MG	a	4588	1/1	0.99	0.02	27,27,27,27	0
32	MG	a	4589	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	4150	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	3721	1/1	0.99	0.06	95,95,95,95	0
32	MG	a	4594	1/1	0.99	0.01	27,27,27,27	0
32	MG	A	4152	1/1	0.99	0.01	31,31,31,31	0
32	MG	a	4597	1/1	0.99	0.02	28,28,28,28	0
32	MG	a	4598	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	4153	1/1	0.99	0.01	27,27,27,27	0
32	MG	a	4600	1/1	0.99	0.04	29,29,29,29	0
32	MG	a	4601	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4155	1/1	0.99	0.03	23,23,23,23	0
32	MG	a	4603	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	3364	1/1	0.99	0.04	74,74,74,74	0
32	MG	a	4605	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	4157	1/1	0.99	0.02	34,34,34,34	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	3723	1/1	0.99	0.06	95,95,95,95	0
32	MG	A	3725	1/1	0.99	0.05	0,0,0,0	0
32	MG	A	4160	1/1	0.99	0.09	26,26,26,26	0
32	MG	A	4162	1/1	0.99	0.02	27,27,27,27	0
32	MG	b	202	1/1	0.99	0.03	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	0.02	22,22,22,22	0
32	MG	b	214	1/1	0.99	0.03	14,14,14,14	0
32	MG	b	215	1/1	0.99	0.04	1,1,1,1	0
32	MG	A	4163	1/1	0.99	0.02	21,21,21,21	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	4164	1/1	0.99	0.01	28,28,28,28	0
32	MG	b	221	1/1	0.99	0.04	23,23,23,23	0
32	MG	A	4165	1/1	0.99	0.03	32,32,32,32	0
32	MG	A	3365	1/1	0.99	0.04	50,50,50,50	0
32	MG	c	316	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4167	1/1	0.99	0.02	29,29,29,29	0
32	MG	c	318	1/1	0.99	0.04	0,0,0,0	0
32	MG	c	319	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4168	1/1	0.99	0.02	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	c	321	1/1	0.99	0.02	21,21,21,21	0
32	MG	c	322	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4170	1/1	0.99	0.04	26,26,26,26	0
32	MG	c	324	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3393	1/1	0.99	0.03	57,57,57,57	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	4172	1/1	0.99	0.02	25,25,25,25	0
32	MG	c	333	1/1	0.99	0.12	29,29,29,29	0
32	MG	d	316	1/1	0.99	0.08	29,29,29,29	0
32	MG	d	317	1/1	0.99	0.03	27,27,27,27	0
32	MG	A	4173	1/1	0.99	0.01	30,30,30,30	0
32	MG	d	320	1/1	0.99	0.01	1,1,1,1	0
32	MG	d	323	1/1	0.99	0.02	25,25,25,25	0
32	MG	d	324	1/1	0.99	0.02	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	4174	1/1	0.99	0.02	26,26,26,26	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	e	316	1/1	0.99	0.02	33,33,33,33	0
32	MG	e	317	1/1	0.99	0.04	1,1,1,1	0
32	MG	A	4175	1/1	0.99	0.01	23,23,23,23	0
32	MG	e	320	1/1	0.99	0.02	25,25,25,25	0
32	MG	e	321	1/1	0.99	0.04	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	A	3728	1/1	0.99	0.03	3,3,3,3	0
32	MG	e	327	1/1	0.99	0.02	22,22,22,22	0
32	MG	e	329	1/1	0.99	0.02	24,24,24,24	0
32	MG	A	4179	1/1	0.99	0.02	27,27,27,27	0
32	MG	e	332	1/1	0.99	0.02	29,29,29,29	0
32	MG	e	333	1/1	0.99	0.01	26,26,26,26	0
32	MG	A	4181	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3729	1/1	0.99	0.03	28,28,28,28	0
32	MG	e	336	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4183	1/1	0.99	0.03	29,29,29,29	0
32	MG	f	204	1/1	0.99	0.02	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	g	203	1/1	0.99	0.02	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	0.01	29,29,29,29	0
32	MG	g	207	1/1	0.99	0.03	21,21,21,21	0
32	MG	A	4184	1/1	0.99	0.06	28,28,28,28	0
32	MG	A	4185	1/1	0.99	0.02	30,30,30,30	0
32	MG	h	204	1/1	0.99	0.03	95,95,95,95	0
32	MG	h	205	1/1	0.99	0.03	95,95,95,95	0
32	MG	h	207	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4186	1/1	0.99	0.02	19,19,19,19	0
32	MG	h	210	1/1	0.99	0.02	25,25,25,25	0
32	MG	h	211	1/1	0.99	0.02	23,23,23,23	0
32	MG	h	212	1/1	0.99	0.01	26,26,26,26	0
32	MG	A	3730	1/1	0.99	0.06	21,21,21,21	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	A	4188	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4189	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	4190	1/1	0.99	0.02	34,34,34,34	0
32	MG	i	208	1/1	0.99	0.02	2,2,2,2	0
32	MG	i	210	1/1	0.99	0.09	29,29,29,29	0
32	MG	i	211	1/1	0.99	0.07	18,18,18,18	0
32	MG	i	212	1/1	0.99	0.03	25,25,25,25	0
32	MG	i	213	1/1	0.99	0.02	30,30,30,30	0
32	MG	i	214	1/1	0.99	0.02	28,28,28,28	0
32	MG	i	216	1/1	0.99	0.01	28,28,28,28	0
32	MG	i	217	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	4191	1/1	0.99	0.05	26,26,26,26	0
32	MG	A	4192	1/1	0.99	0.06	31,31,31,31	0
32	MG	A	3731	1/1	0.99	0.05	95,95,95,95	0
32	MG	i	221	1/1	0.99	0.01	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	i	224	1/1	0.99	0.06	32,32,32,32	0
32	MG	i	225	1/1	0.99	0.05	26,26,26,26	0
32	MG	i	226	1/1	0.99	0.02	21,21,21,21	0
32	MG	j	209	1/1	0.99	0.03	75,75,75,75	0
32	MG	j	213	1/1	0.99	0.04	86,86,86,86	0
32	MG	j	214	1/1	0.99	0.05	42,42,42,42	0
32	MG	j	215	1/1	0.99	0.04	59,59,59,59	0
32	MG	j	216	1/1	0.99	0.08	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4195	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4196	1/1	0.99	0.05	26,26,26,26	0
32	MG	A	3732	1/1	0.99	0.04	13,13,13,13	0
32	MG	j	221	1/1	0.99	0.04	33,33,33,33	0
32	MG	k	207	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	4198	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4199	1/1	0.99	0.02	29,29,29,29	0
32	MG	k	210	1/1	0.99	0.03	21,21,21,21	0
32	MG	k	211	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	3413	1/1	0.99	0.03	96,96,96,96	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	0.03	30,30,30,30	0
32	MG	k	217	1/1	0.99	0.03	28,28,28,28	0
32	MG	k	218	1/1	0.99	0.03	33,33,33,33	0
32	MG	A	4201	1/1	0.99	0.03	26,26,26,26	0
32	MG	k	220	1/1	0.99	0.03	20,20,20,20	0
32	MG	l	206	1/1	0.99	0.08	64,64,64,64	0
32	MG	A	4202	1/1	0.99	0.04	28,28,28,28	0
32	MG	l	214	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	4203	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	3414	1/1	0.99	0.03	53,53,53,53	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	A	3735	1/1	0.99	0.08	95,95,95,95	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	4207	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	3736	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4210	1/1	0.99	0.04	27,27,27,27	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	3737	1/1	0.99	0.06	95,95,95,95	0
32	MG	m	219	1/1	0.99	0.01	21,21,21,21	0
32	MG	A	4214	1/1	0.99	0.05	30,30,30,30	0
32	MG	n	203	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	4215	1/1	0.99	0.04	31,31,31,31	0
32	MG	n	205	1/1	0.99	0.02	28,28,28,28	0
32	MG	n	206	1/1	0.99	0.03	25,25,25,25	0
32	MG	A	4216	1/1	0.99	0.03	21,21,21,21	0
32	MG	o	206	1/1	0.99	0.04	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4218	1/1	0.99	0.06	28,28,28,28	0
32	MG	A	4219	1/1	0.99	0.04	25,25,25,25	0
32	MG	A	3738	1/1	0.99	0.06	95,95,95,95	0
32	MG	o	216	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3422	1/1	0.99	0.07	56,56,56,56	0
32	MG	o	218	1/1	0.99	0.02	7,7,7,7	0
32	MG	A	4223	1/1	0.99	0.03	29,29,29,29	0
32	MG	o	220	1/1	0.99	0.02	9,9,9,9	0
32	MG	o	221	1/1	0.99	0.01	21,21,21,21	0
32	MG	A	4224	1/1	0.99	0.02	22,22,22,22	0
32	MG	o	223	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	4225	1/1	0.99	0.03	26,26,26,26	0
32	MG	o	225	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4226	1/1	0.99	0.02	53,53,53,53	0
32	MG	A	4228	1/1	0.99	0.02	25,25,25,25	0
32	MG	o	228	1/1	0.99	0.01	20,20,20,20	0
32	MG	o	229	1/1	0.99	0.02	26,26,26,26	0
32	MG	A	3740	1/1	0.99	0.01	4,4,4,4	0
32	MG	A	4231	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4232	1/1	0.99	0.01	25,25,25,25	0
32	MG	p	211	1/1	0.99	0.03	95,95,95,95	0
32	MG	A	3444	1/1	0.99	0.02	109,109,109,109	0
32	MG	p	213	1/1	0.99	0.02	27,27,27,27	0
32	MG	p	214	1/1	0.99	0.03	25,25,25,25	0
32	MG	p	215	1/1	0.99	0.03	30,30,30,30	0
32	MG	A	4235	1/1	0.99	0.02	24,24,24,24	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	0.03	27,27,27,27	0
32	MG	q	212	1/1	0.99	0.01	28,28,28,28	0
32	MG	A	4236	1/1	0.99	0.04	32,32,32,32	0
32	MG	q	214	1/1	0.99	0.01	24,24,24,24	0
32	MG	A	4237	1/1	0.99	0.03	28,28,28,28	0
32	MG	q	216	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	3468	1/1	0.99	0.04	73,73,73,73	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	3744	1/1	0.99	0.03	19,19,19,19	0
32	MG	A	4240	1/1	0.99	0.02	32,32,32,32	0
32	MG	q	222	1/1	0.99	0.02	27,27,27,27	0
32	MG	A	4241	1/1	0.99	0.02	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
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	A	4242	1/1	0.99	0.04	31,31,31,31	0
32	MG	A	4244	1/1	0.99	0.04	35,35,35,35	0
32	MG	q	229	1/1	0.99	0.02	29,29,29,29	0
32	MG	A	4245	1/1	0.99	0.05	30,30,30,30	0
32	MG	r	203	1/1	0.99	0.03	57,57,57,57	0
32	MG	r	209	1/1	0.99	0.05	76,76,76,76	0
32	MG	A	3472	1/1	0.99	0.06	63,63,63,63	0
32	MG	A	3480	1/1	0.99	0.04	72,72,72,72	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	0.03	1,1,1,1	0
32	MG	A	4248	1/1	0.99	0.06	33,33,33,33	0
32	MG	r	218	1/1	0.99	0.04	28,28,28,28	0
32	MG	A	4250	1/1	0.99	0.02	28,28,28,28	0
32	MG	r	220	1/1	0.99	0.02	25,25,25,25	0
32	MG	r	221	1/1	0.99	0.03	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	0.01	25,25,25,25	0
32	MG	r	225	1/1	0.99	0.02	25,25,25,25	0
32	MG	A	4251	1/1	0.99	0.03	26,26,26,26	0
32	MG	r	227	1/1	0.99	0.02	30,30,30,30	0
32	MG	A	4252	1/1	0.99	0.03	31,31,31,31	0
32	MG	s	104	1/1	0.99	0.03	9,9,9,9	0
32	MG	A	4253	1/1	0.99	0.04	32,32,32,32	0
32	MG	A	3481	1/1	0.99	0.04	72,72,72,72	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	0.03	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	0.03	95,95,95,95	0
32	MG	t	505	1/1	0.99	0.04	26,26,26,26	0
32	MG	u	315	1/1	0.99	0.03	79,79,79,79	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	3748	1/1	0.99	0.02	5,5,5,5	0
32	MG	A	4257	1/1	0.99	0.03	28,28,28,28	0
32	MG	A	4258	1/1	0.99	0.04	28,28,28,28	0
32	MG	u	323	1/1	0.99	0.02	26,26,26,26	0
32	MG	u	324	1/1	0.99	0.02	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4259	1/1	0.99	0.04	23,23,23,23	0
32	MG	v	109	1/1	0.99	0.03	29,29,29,29	0
32	MG	A	4260	1/1	0.99	0.07	27,27,27,27	0
32	MG	v	111	1/1	0.99	0.02	28,28,28,28	0
32	MG	A	4261	1/1	0.99	0.04	31,31,31,31	0
32	MG	w	107	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4262	1/1	0.99	0.03	33,33,33,33	0
32	MG	w	109	1/1	0.99	0.02	22,22,22,22	0
32	MG	A	3749	1/1	0.99	0.02	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	0.02	95,95,95,95	0
32	MG	A	3750	1/1	0.99	0.04	95,95,95,95	0
32	MG	A	4265	1/1	0.99	0.03	26,26,26,26	0
32	MG	A	3751	1/1	0.99	0.02	95,95,95,95	0
32	MG	A	3752	1/1	0.99	0.05	8,8,8,8	0
32	MG	y	607	1/1	0.99	0.03	9,9,9,9	0
32	MG	A	4268	1/1	0.99	0.01	27,27,27,27	0
32	MG	y	609	1/1	0.99	0.02	29,29,29,29	0
32	MG	z	502	1/1	0.99	0.02	23,23,23,23	0
32	MG	A	4269	1/1	0.99	0.04	29,29,29,29	0
32	MG	A	4270	1/1	0.99	0.02	23,23,23,23	0
32	MG	z	505	1/1	0.99	0.01	23,23,23,23	0
32	MG	A	3483	1/1	0.99	0.03	84,84,84,84	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	5	105	1/1	0.99	0.03	95,95,95,95	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	6	504	1/1	0.99	0.04	95,95,95,95	0
32	MG	6	506	1/1	0.99	0.02	32,32,32,32	0
32	MG	A	3489	1/1	0.99	0.04	81,81,81,81	0
32	MG	7	104	1/1	0.99	0.02	8,8,8,8	0
32	MG	7	105	1/1	0.99	0.04	19,19,19,19	0
32	MG	A	3493	1/1	0.99	0.06	66,66,66,66	0
32	MG	7	107	1/1	0.99	0.05	33,33,33,33	0
32	MG	A	3031	1/1	0.99	0.03	91,91,91,91	0
32	MG	8	108	1/1	0.99	0.06	29,29,29,29	0
32	MG	A	4275	1/1	0.99	0.02	28,28,28,28	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	0.04	67,67,67,67	0
32	MG	9	104	1/1	0.99	0.02	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4276	1/1	0.99	0.03	25,25,25,25	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	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	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	0.03	23,23,23,23	0
32	MG	a	3219	1/1	1.00	0.01	35,35,35,35	0
32	MG	a	3220	1/1	1.00	0.02	26,26,26,26	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	0.02	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	3320	1/1	1.00	0.03	66,66,66,66	0
32	MG	a	3227	1/1	1.00	0.03	50,50,50,50	0
32	MG	a	3228	1/1	1.00	0.02	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	0.01	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	0.01	55,55,55,55	0
32	MG	a	3234	1/1	1.00	0.01	65,65,65,65	0
32	MG	A	3321	1/1	1.00	0.03	43,43,43,43	0
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	a	3238	1/1	1.00	0.03	48,48,48,48	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	3909	1/1	1.00	0.01	38,38,38,38	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	a	3245	1/1	1.00	0.02	33,33,33,33	0
32	MG	a	3246	1/1	1.00	0.02	44,44,44,44	0
32	MG	A	3322	1/1	1.00	0.04	62,62,62,62	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	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

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3252	1/1	1.00	0.01	61,61,61,61	0
32	MG	a	3253	1/1	1.00	0.02	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	a	3256	1/1	1.00	0.02	59,59,59,59	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	a	3260	1/1	1.00	0.01	24,24,24,24	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	3264	1/1	1.00	0.01	72,72,72,72	0
32	MG	a	3265	1/1	1.00	0.01	46,46,46,46	0
32	MG	a	3266	1/1	1.00	0.01	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	0.02	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	a	3272	1/1	1.00	0.04	78,78,78,78	0
32	MG	a	3273	1/1	1.00	0.01	49,49,49,49	0
32	MG	A	3030	1/1	1.00	0.01	35,35,35,35	0
32	MG	A	3324	1/1	1.00	0.03	56,56,56,56	0
32	MG	A	3325	1/1	1.00	0.04	78,78,78,78	0
32	MG	a	3277	1/1	1.00	0.02	60,60,60,60	0
32	MG	A	3326	1/1	1.00	0.01	39,39,39,39	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	0.05	41,41,41,41	0
32	MG	a	3282	1/1	1.00	0.03	90,90,90,90	0
32	MG	A	3327	1/1	1.00	0.02	70,70,70,70	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	a	3287	1/1	1.00	0.02	46,46,46,46	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	0.01	54,54,54,54	0
32	MG	a	3291	1/1	1.00	0.05	51,51,51,51	0
32	MG	a	3292	1/1	1.00	0.02	46,46,46,46	0
32	MG	A	3328	1/1	1.00	0.02	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
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	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	a	3299	1/1	1.00	0.03	65,65,65,65	0
32	MG	A	3329	1/1	1.00	0.02	82,82,82,82	0
32	MG	A	3330	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3302	1/1	1.00	0.01	45,45,45,45	0
32	MG	A	3331	1/1	1.00	0.02	57,57,57,57	0
32	MG	A	3920	1/1	1.00	0.04	10,10,10,10	0
32	MG	a	3305	1/1	1.00	0.02	60,60,60,60	0
32	MG	a	3306	1/1	1.00	0.01	35,35,35,35	0
32	MG	a	3307	1/1	1.00	0.01	48,48,48,48	0
32	MG	A	3332	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3309	1/1	1.00	0.03	90,90,90,90	0
32	MG	a	3310	1/1	1.00	0.03	45,45,45,45	0
32	MG	a	3311	1/1	1.00	0.01	63,63,63,63	0
32	MG	A	3333	1/1	1.00	0.02	54,54,54,54	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	3318	1/1	1.00	0.06	50,50,50,50	0
32	MG	a	3319	1/1	1.00	0.03	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	3324	1/1	1.00	0.04	55,55,55,55	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	0.01	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	3002	1/1	1.00	0.01	23,23,23,23	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	3032	1/1	1.00	0.03	79,79,79,79	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(Å^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	0.03	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	3925	1/1	1.00	0.02	12,12,12,12	0
32	MG	a	3343	1/1	1.00	0.05	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	3336	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3349	1/1	1.00	0.01	40,40,40,40	0
32	MG	A	3927	1/1	1.00	0.02	35,35,35,35	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	0.02	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	0.01	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	0.03	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	0.03	54,54,54,54	0
32	MG	A	3337	1/1	1.00	0.03	49,49,49,49	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	3338	1/1	1.00	0.03	57,57,57,57	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(Å^2)	Q<0.9
32	MG	a	3378	1/1	1.00	0.03	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	0.02	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	0.02	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	3385	1/1	1.00	0.02	52,52,52,52	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	3339	1/1	1.00	0.02	58,58,58,58	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	3391	1/1	1.00	0.03	55,55,55,55	0
32	MG	a	3392	1/1	1.00	0.03	63,63,63,63	0
32	MG	a	3393	1/1	1.00	0.04	74,74,74,74	0
32	MG	A	3340	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3395	1/1	1.00	0.03	67,67,67,67	0
32	MG	a	3396	1/1	1.00	0.02	42,42,42,42	0
32	MG	a	3397	1/1	1.00	0.02	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	3400	1/1	1.00	0.05	56,56,56,56	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	0.03	45,45,45,45	0
32	MG	a	3404	1/1	1.00	0.04	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	0.02	62,62,62,62	0
32	MG	a	3415	1/1	1.00	0.02	44,44,44,44	0
32	MG	A	3341	1/1	1.00	0.02	39,39,39,39	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	3419	1/1	1.00	0.05	113,113,113,113	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^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	0.02	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	0.02	61,61,61,61	0
32	MG	a	3429	1/1	1.00	0.02	32,32,32,32	0
32	MG	A	3342	1/1	1.00	0.02	21,21,21,21	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	3343	1/1	1.00	0.03	94,94,94,94	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	3935	1/1	1.00	0.02	1,1,1,1	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	3443	1/1	1.00	0.02	44,44,44,44	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	0.03	39,39,39,39	0
32	MG	A	3936	1/1	1.00	0.05	95,95,95,95	0
32	MG	a	3448	1/1	1.00	0.02	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	0.02	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	0.02	71,71,71,71	0
32	MG	a	3455	1/1	1.00	0.04	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	0.03	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	3033	1/1	1.00	0.02	39,39,39,39	0
32	MG	a	3461	1/1	1.00	0.02	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3462	1/1	1.00	0.05	86,86,86,86	0
32	MG	A	3345	1/1	1.00	0.04	30,30,30,30	0
32	MG	a	3464	1/1	1.00	0.04	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	0.03	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	0.01	66,66,66,66	0
32	MG	a	3473	1/1	1.00	0.02	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	0.04	53,53,53,53	0
32	MG	a	3476	1/1	1.00	0.03	35,35,35,35	0
32	MG	A	3346	1/1	1.00	0.01	40,40,40,40	0
32	MG	a	3478	1/1	1.00	0.05	66,66,66,66	0
32	MG	A	3347	1/1	1.00	0.08	52,52,52,52	0
32	MG	A	3348	1/1	1.00	0.02	60,60,60,60	0
32	MG	A	3942	1/1	1.00	0.01	0,0,0,0	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	3349	1/1	1.00	0.03	76,76,76,76	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	3350	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3492	1/1	1.00	0.01	42,42,42,42	0
32	MG	a	3493	1/1	1.00	0.02	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	0.05	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	0.01	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	0.03	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^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	0.01	65,65,65,65	0
32	MG	A	3945	1/1	1.00	0.02	16,16,16,16	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	0.01	38,38,38,38	0
32	MG	a	3516	1/1	1.00	0.03	46,46,46,46	0
32	MG	a	3517	1/1	1.00	0.02	51,51,51,51	0
32	MG	a	3518	1/1	1.00	0.03	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	0.02	39,39,39,39	0
32	MG	A	3351	1/1	1.00	0.04	59,59,59,59	0
32	MG	a	3523	1/1	1.00	0.01	62,62,62,62	0
32	MG	a	3524	1/1	1.00	0.03	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	3352	1/1	1.00	0.03	50,50,50,50	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	3948	1/1	1.00	0.08	95,95,95,95	0
32	MG	A	3353	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3534	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3535	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3536	1/1	1.00	0.03	48,48,48,48	0
32	MG	a	3537	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	3538	1/1	1.00	0.04	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	3354	1/1	1.00	0.04	37,37,37,37	0
32	MG	A	3034	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3543	1/1	1.00	0.02	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(Å^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	3356	1/1	1.00	0.01	48,48,48,48	0
32	MG	a	3549	1/1	1.00	0.01	52,52,52,52	0
32	MG	A	3357	1/1	1.00	0.03	77,77,77,77	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	3358	1/1	1.00	0.06	34,34,34,34	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	0.04	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	0.02	46,46,46,46	0
32	MG	a	3567	1/1	1.00	0.03	63,63,63,63	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	0.03	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	0.02	40,40,40,40	0
32	MG	a	3573	1/1	1.00	0.01	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	0.03	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	0.02	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	0.03	56,56,56,56	0
32	MG	A	3955	1/1	1.00	0.03	31,31,31,31	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	3359	1/1	1.00	0.02	39,39,39,39	0
32	MG	a	3587	1/1	1.00	0.02	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^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	3360	1/1	1.00	0.02	35,35,35,35	0
32	MG	a	3592	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3593	1/1	1.00	0.02	70,70,70,70	0
32	MG	A	3361	1/1	1.00	0.04	56,56,56,56	0
32	MG	a	3595	1/1	1.00	0.02	75,75,75,75	0
32	MG	a	3596	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3597	1/1	1.00	0.02	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	3035	1/1	1.00	0.03	37,37,37,37	0
32	MG	a	3602	1/1	1.00	0.03	34,34,34,34	0
32	MG	a	3603	1/1	1.00	0.03	55,55,55,55	0
32	MG	a	3604	1/1	1.00	0.01	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	0.02	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	0.02	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	0.02	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	0.03	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	0.01	49,49,49,49	0
32	MG	a	3628	1/1	1.00	0.03	72,72,72,72	0
32	MG	A	3960	1/1	1.00	0.04	2,2,2,2	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^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	0.01	65,65,65,65	0
32	MG	a	3632	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3363	1/1	1.00	0.03	64,64,64,64	0
32	MG	a	3634	1/1	1.00	0.04	76,76,76,76	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	3637	1/1	1.00	0.04	75,75,75,75	0
32	MG	A	3036	1/1	1.00	0.01	31,31,31,31	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	3037	1/1	1.00	0.01	33,33,33,33	0
32	MG	a	3642	1/1	1.00	0.02	87,87,87,87	0
32	MG	a	3643	1/1	1.00	0.03	73,73,73,73	0
32	MG	a	3644	1/1	1.00	0.06	51,51,51,51	0
32	MG	A	3366	1/1	1.00	0.03	33,33,33,33	0
32	MG	a	3646	1/1	1.00	0.01	66,66,66,66	0
32	MG	A	3367	1/1	1.00	0.06	50,50,50,50	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	3966	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3967	1/1	1.00	0.05	95,95,95,95	0
32	MG	A	3368	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3653	1/1	1.00	0.03	67,67,67,67	0
32	MG	A	3969	1/1	1.00	0.04	95,95,95,95	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	3369	1/1	1.00	0.07	52,52,52,52	0
32	MG	A	3370	1/1	1.00	0.03	47,47,47,47	0
32	MG	a	3659	1/1	1.00	0.03	69,69,69,69	0
32	MG	A	3371	1/1	1.00	0.01	38,38,38,38	0
32	MG	A	3372	1/1	1.00	0.01	47,47,47,47	0
32	MG	a	3662	1/1	1.00	0.01	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	0.04	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	0.06	68,68,68,68	0
32	MG	a	3669	1/1	1.00	0.03	58,58,58,58	0
32	MG	a	3670	1/1	1.00	0.03	79,79,79,79	0
32	MG	A	3974	1/1	1.00	0.06	10,10,10,10	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3672	1/1	1.00	0.03	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	3373	1/1	1.00	0.02	53,53,53,53	0
32	MG	a	3676	1/1	1.00	0.01	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	3976	1/1	1.00	0.06	2,2,2,2	0
32	MG	A	3374	1/1	1.00	0.01	43,43,43,43	0
32	MG	a	3681	1/1	1.00	0.03	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	3375	1/1	1.00	0.03	49,49,49,49	0
32	MG	a	3686	1/1	1.00	0.03	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	0.05	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	3376	1/1	1.00	0.03	68,68,68,68	0
32	MG	a	3697	1/1	1.00	0.04	62,62,62,62	0
32	MG	a	3698	1/1	1.00	0.04	83,83,83,83	0
32	MG	a	3699	1/1	1.00	0.05	67,67,67,67	0
32	MG	A	3377	1/1	1.00	0.02	59,59,59,59	0
32	MG	a	3701	1/1	1.00	0.02	76,76,76,76	0
32	MG	A	3981	1/1	1.00	0.04	63,63,63,63	0
32	MG	a	3703	1/1	1.00	0.03	59,59,59,59	0
32	MG	a	3704	1/1	1.00	0.07	89,89,89,89	0
32	MG	a	3705	1/1	1.00	0.04	61,61,61,61	0
32	MG	A	3982	1/1	1.00	0.05	50,50,50,50	0
32	MG	a	3707	1/1	1.00	0.04	69,69,69,69	0
32	MG	A	3378	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3709	1/1	1.00	0.02	64,64,64,64	0
32	MG	a	3710	1/1	1.00	0.03	78,78,78,78	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(Å^2)	Q<0.9
32	MG	A	3984	1/1	1.00	0.04	95,95,95,95	0
32	MG	a	3715	1/1	1.00	0.04	65,65,65,65	0
32	MG	A	3985	1/1	1.00	0.04	2,2,2,2	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	0.02	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	3986	1/1	1.00	0.04	25,25,25,25	0
32	MG	a	3724	1/1	1.00	0.04	55,55,55,55	0
32	MG	A	3379	1/1	1.00	0.01	80,80,80,80	0
32	MG	A	3380	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3727	1/1	1.00	0.02	78,78,78,78	0
32	MG	a	3728	1/1	1.00	0.03	72,72,72,72	0
32	MG	A	3381	1/1	1.00	0.01	51,51,51,51	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	0.03	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	3382	1/1	1.00	0.03	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	0.03	84,84,84,84	0
32	MG	a	3740	1/1	1.00	0.02	76,76,76,76	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	3383	1/1	1.00	0.01	50,50,50,50	0
32	MG	A	3384	1/1	1.00	0.02	88,88,88,88	0
32	MG	A	3385	1/1	1.00	0.02	40,40,40,40	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	0.03	61,61,61,61	0
32	MG	A	3994	1/1	1.00	0.02	22,22,22,22	0
32	MG	a	3753	1/1	1.00	0.03	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	0.05	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^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	0.01	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	0.06	74,74,74,74	0
32	MG	a	3760	1/1	1.00	0.02	77,77,77,77	0
32	MG	A	3386	1/1	1.00	0.06	60,60,60,60	0
32	MG	a	3762	1/1	1.00	0.03	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	3766	1/1	1.00	0.04	77,77,77,77	0
32	MG	a	3767	1/1	1.00	0.04	68,68,68,68	0
32	MG	A	3996	1/1	1.00	0.02	14,14,14,14	0
32	MG	a	3769	1/1	1.00	0.01	56,56,56,56	0
32	MG	A	3387	1/1	1.00	0.01	54,54,54,54	0
32	MG	a	3771	1/1	1.00	0.01	63,63,63,63	0
32	MG	a	3772	1/1	1.00	0.01	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	3388	1/1	1.00	0.02	57,57,57,57	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	3389	1/1	1.00	0.03	83,83,83,83	0
32	MG	a	3790	1/1	1.00	0.01	63,63,63,63	0
32	MG	A	3390	1/1	1.00	0.01	44,44,44,44	0
32	MG	a	3792	1/1	1.00	0.03	79,79,79,79	0
32	MG	a	3793	1/1	1.00	0.02	67,67,67,67	0
32	MG	A	3391	1/1	1.00	0.04	67,67,67,67	0
32	MG	A	3392	1/1	1.00	0.03	72,72,72,72	0
32	MG	a	3796	1/1	1.00	0.03	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(Å^2)	Q<0.9
32	MG	a	3798	1/1	1.00	0.04	70,70,70,70	0
32	MG	a	3799	1/1	1.00	0.02	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	0.01	53,53,53,53	0
32	MG	A	4003	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	3038	1/1	1.00	0.01	59,59,59,59	0
32	MG	A	3394	1/1	1.00	0.01	39,39,39,39	0
32	MG	A	3395	1/1	1.00	0.03	52,52,52,52	0
32	MG	A	3396	1/1	1.00	0.02	40,40,40,40	0
32	MG	A	3397	1/1	1.00	0.01	62,62,62,62	0
32	MG	A	3398	1/1	1.00	0.05	49,49,49,49	0
32	MG	A	4010	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	3812	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	4011	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3399	1/1	1.00	0.03	51,51,51,51	0
32	MG	a	3815	1/1	1.00	0.02	16,16,16,16	0
32	MG	A	3400	1/1	1.00	0.02	45,45,45,45	0
32	MG	A	3401	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	3818	1/1	1.00	0.02	10,10,10,10	0
32	MG	A	3402	1/1	1.00	0.03	45,45,45,45	0
32	MG	A	3403	1/1	1.00	0.02	41,41,41,41	0
32	MG	A	3404	1/1	1.00	0.02	37,37,37,37	0
32	MG	A	4018	1/1	1.00	0.03	25,25,25,25	0
32	MG	A	3405	1/1	1.00	0.02	49,49,49,49	0
32	MG	A	3406	1/1	1.00	0.01	60,60,60,60	0
32	MG	a	3825	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	3826	1/1	1.00	0.03	30,30,30,30	0
32	MG	A	3407	1/1	1.00	0.01	51,51,51,51	0
32	MG	a	3828	1/1	1.00	0.05	52,52,52,52	0
32	MG	A	3408	1/1	1.00	0.01	48,48,48,48	0
32	MG	a	3830	1/1	1.00	0.03	50,50,50,50	0
32	MG	A	3409	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3832	1/1	1.00	0.02	95,95,95,95	0
32	MG	A	3410	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3834	1/1	1.00	0.04	95,95,95,95	0
32	MG	a	3835	1/1	1.00	0.04	4,4,4,4	0
32	MG	A	3411	1/1	1.00	0.01	73,73,73,73	0
32	MG	A	3412	1/1	1.00	0.04	68,68,68,68	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(Å^2)	Q<0.9
32	MG	a	3840	1/1	1.00	0.02	9,9,9,9	0
32	MG	A	3039	1/1	1.00	0.01	73,73,73,73	0
32	MG	a	3842	1/1	1.00	0.04	2,2,2,2	0
32	MG	A	3003	1/1	1.00	0.02	42,42,42,42	0
32	MG	A	3415	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3416	1/1	1.00	0.05	53,53,53,53	0
32	MG	A	3417	1/1	1.00	0.01	61,61,61,61	0
32	MG	A	3418	1/1	1.00	0.02	73,73,73,73	0
32	MG	A	3419	1/1	1.00	0.02	61,61,61,61	0
32	MG	a	3849	1/1	1.00	0.02	7,7,7,7	0
32	MG	a	3850	1/1	1.00	0.06	14,14,14,14	0
32	MG	A	3420	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3421	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3041	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3423	1/1	1.00	0.02	86,86,86,86	0
32	MG	A	3424	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3425	1/1	1.00	0.02	39,39,39,39	0
32	MG	a	3857	1/1	1.00	0.02	21,21,21,21	0
32	MG	A	4040	1/1	1.00	0.02	24,24,24,24	0
32	MG	a	3859	1/1	1.00	0.04	11,11,11,11	0
32	MG	a	3860	1/1	1.00	0.04	56,56,56,56	0
32	MG	a	3861	1/1	1.00	0.04	10,10,10,10	0
32	MG	A	4041	1/1	1.00	0.02	16,16,16,16	0
32	MG	A	3426	1/1	1.00	0.03	49,49,49,49	0
32	MG	A	3427	1/1	1.00	0.02	26,26,26,26	0
32	MG	a	3865	1/1	1.00	0.03	2,2,2,2	0
32	MG	a	3866	1/1	1.00	0.03	18,18,18,18	0
32	MG	A	3428	1/1	1.00	0.03	58,58,58,58	0
32	MG	A	3429	1/1	1.00	0.02	62,62,62,62	0
32	MG	A	3430	1/1	1.00	0.02	68,68,68,68	0
32	MG	A	3431	1/1	1.00	0.01	59,59,59,59	0
32	MG	A	3432	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3433	1/1	1.00	0.04	91,91,91,91	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	3436	1/1	1.00	0.04	66,66,66,66	0
32	MG	A	3437	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3438	1/1	1.00	0.01	49,49,49,49	0
32	MG	a	3878	1/1	1.00	0.04	95,95,95,95	0
32	MG	A	4055	1/1	1.00	0.02	35,35,35,35	0
32	MG	A	3439	1/1	1.00	0.02	51,51,51,51	0
32	MG	A	3440	1/1	1.00	0.01	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3441	1/1	1.00	0.02	71,71,71,71	0
32	MG	A	3442	1/1	1.00	0.03	47,47,47,47	0
32	MG	A	3443	1/1	1.00	0.01	61,61,61,61	0
32	MG	a	3885	1/1	1.00	0.05	26,26,26,26	0
32	MG	A	3042	1/1	1.00	0.01	27,27,27,27	0
32	MG	A	3445	1/1	1.00	0.03	85,85,85,85	0
32	MG	A	3446	1/1	1.00	0.03	52,52,52,52	0
32	MG	a	3889	1/1	1.00	0.02	6,6,6,6	0
32	MG	A	3447	1/1	1.00	0.01	59,59,59,59	0
32	MG	a	3891	1/1	1.00	0.06	95,95,95,95	0
32	MG	A	3448	1/1	1.00	0.03	60,60,60,60	0
32	MG	A	4066	1/1	1.00	0.03	32,32,32,32	0
32	MG	A	3449	1/1	1.00	0.03	63,63,63,63	0
32	MG	A	4068	1/1	1.00	0.01	24,24,24,24	0
32	MG	A	3450	1/1	1.00	0.01	35,35,35,35	0
32	MG	A	3451	1/1	1.00	0.01	55,55,55,55	0
32	MG	a	3898	1/1	1.00	0.04	7,7,7,7	0
32	MG	A	3452	1/1	1.00	0.01	113,113,113,113	0
32	MG	a	3900	1/1	1.00	0.04	12,12,12,12	0
32	MG	A	3453	1/1	1.00	0.02	65,65,65,65	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	3904	1/1	1.00	0.03	39,39,39,39	0
32	MG	A	3456	1/1	1.00	0.01	52,52,52,52	0
32	MG	A	3457	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	3459	1/1	1.00	0.03	67,67,67,67	0
32	MG	A	4079	1/1	1.00	0.04	29,29,29,29	0
32	MG	A	3460	1/1	1.00	0.03	72,72,72,72	0
32	MG	A	3461	1/1	1.00	0.03	57,57,57,57	0
32	MG	a	3912	1/1	1.00	0.02	32,32,32,32	0
32	MG	A	3462	1/1	1.00	0.01	41,41,41,41	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	3463	1/1	1.00	0.02	51,51,51,51	0
32	MG	A	3464	1/1	1.00	0.02	34,34,34,34	0
32	MG	a	3919	1/1	1.00	0.03	46,46,46,46	0
32	MG	A	3465	1/1	1.00	0.01	86,86,86,86	0
32	MG	A	3466	1/1	1.00	0.03	69,69,69,69	0
32	MG	A	4087	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3467	1/1	1.00	0.03	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3043	1/1	1.00	0.01	18,18,18,18	0
32	MG	A	3469	1/1	1.00	0.02	64,64,64,64	0
32	MG	A	3470	1/1	1.00	0.07	47,47,47,47	0
32	MG	A	3471	1/1	1.00	0.04	80,80,80,80	0
32	MG	a	3928	1/1	1.00	0.03	41,41,41,41	0
32	MG	A	3004	1/1	1.00	0.01	20,20,20,20	0
32	MG	a	3930	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	4094	1/1	1.00	0.03	32,32,32,32	0
32	MG	A	3473	1/1	1.00	0.02	66,66,66,66	0
32	MG	A	3474	1/1	1.00	0.06	67,67,67,67	0
32	MG	A	3475	1/1	1.00	0.05	76,76,76,76	0
32	MG	A	4098	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3476	1/1	1.00	0.01	66,66,66,66	0
32	MG	A	3477	1/1	1.00	0.02	78,78,78,78	0
32	MG	A	3478	1/1	1.00	0.03	66,66,66,66	0
32	MG	A	3479	1/1	1.00	0.02	84,84,84,84	0
32	MG	A	3045	1/1	1.00	0.01	66,66,66,66	0
32	MG	A	3046	1/1	1.00	0.02	33,33,33,33	0
32	MG	a	3942	1/1	1.00	0.02	14,14,14,14	0
32	MG	A	3482	1/1	1.00	0.04	79,79,79,79	0
32	MG	A	3047	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3484	1/1	1.00	0.04	80,80,80,80	0
32	MG	a	3946	1/1	1.00	0.07	0,0,0,0	0
32	MG	A	3485	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	4109	1/1	1.00	0.02	19,19,19,19	0
32	MG	A	3486	1/1	1.00	0.05	73,73,73,73	0
32	MG	A	3487	1/1	1.00	0.02	83,83,83,83	0
32	MG	A	3488	1/1	1.00	0.03	75,75,75,75	0
32	MG	A	4113	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3005	1/1	1.00	0.01	22,22,22,22	0
32	MG	A	3490	1/1	1.00	0.05	71,71,71,71	0
32	MG	a	3955	1/1	1.00	0.06	82,82,82,82	0
32	MG	A	3491	1/1	1.00	0.02	66,66,66,66	0
32	MG	A	4117	1/1	1.00	0.01	37,37,37,37	0
32	MG	a	3958	1/1	1.00	0.02	3,3,3,3	0
32	MG	A	3492	1/1	1.00	0.05	69,69,69,69	0
32	MG	A	3049	1/1	1.00	0.03	34,34,34,34	0
32	MG	A	3494	1/1	1.00	0.03	58,58,58,58	0
32	MG	A	3495	1/1	1.00	0.02	91,91,91,91	0
32	MG	A	4122	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3496	1/1	1.00	0.06	74,74,74,74	0
32	MG	A	3497	1/1	1.00	0.03	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3498	1/1	1.00	0.02	60,60,60,60	0
32	MG	A	4126	1/1	1.00	0.00	29,29,29,29	0
32	MG	A	3499	1/1	1.00	0.01	74,74,74,74	0
32	MG	a	3969	1/1	1.00	0.04	23,23,23,23	0
32	MG	A	3500	1/1	1.00	0.02	72,72,72,72	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	0.04	76,76,76,76	0
32	MG	A	3006	1/1	1.00	0.04	24,24,24,24	0
32	MG	A	3505	1/1	1.00	0.02	93,93,93,93	0
32	MG	A	3506	1/1	1.00	0.04	77,77,77,77	0
32	MG	A	3507	1/1	1.00	0.03	62,62,62,62	0
32	MG	A	3508	1/1	1.00	0.01	68,68,68,68	0
32	MG	A	4137	1/1	1.00	0.01	27,27,27,27	0
32	MG	A	3509	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3510	1/1	1.00	0.03	74,74,74,74	0
32	MG	A	3511	1/1	1.00	0.02	72,72,72,72	0
32	MG	a	3983	1/1	1.00	0.01	12,12,12,12	0
32	MG	A	3512	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	3985	1/1	1.00	0.03	29,29,29,29	0
32	MG	A	4142	1/1	1.00	0.01	27,27,27,27	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	3989	1/1	1.00	0.03	14,14,14,14	0
32	MG	A	3007	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3052	1/1	1.00	0.02	47,47,47,47	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	3053	1/1	1.00	0.01	28,28,28,28	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	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	4154	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	3524	1/1	1.00	0.01	73,73,73,73	0
32	MG	A	3525	1/1	1.00	0.01	56,56,56,56	0
32	MG	A	3526	1/1	1.00	0.02	58,58,58,58	0
32	MG	A	3527	1/1	1.00	0.04	61,61,61,61	0
32	MG	a	4004	1/1	1.00	0.01	13,13,13,13	0
32	MG	A	3054	1/1	1.00	0.01	32,32,32,32	0
32	MG	a	4006	1/1	1.00	0.03	27,27,27,27	0
32	MG	A	3529	1/1	1.00	0.02	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4161	1/1	1.00	0.03	29,29,29,29	0
32	MG	A	3530	1/1	1.00	0.01	65,65,65,65	0
32	MG	a	4010	1/1	1.00	0.02	11,11,11,11	0
32	MG	A	3531	1/1	1.00	0.01	61,61,61,61	0
32	MG	a	4012	1/1	1.00	0.04	0,0,0,0	0
32	MG	A	3532	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3055	1/1	1.00	0.02	20,20,20,20	0
32	MG	A	3534	1/1	1.00	0.02	58,58,58,58	0
32	MG	A	3535	1/1	1.00	0.03	71,71,71,71	0
32	MG	a	4017	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3056	1/1	1.00	0.01	11,11,11,11	0
32	MG	A	4169	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3057	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3538	1/1	1.00	0.03	90,90,90,90	0
32	MG	A	3058	1/1	1.00	0.02	33,33,33,33	0
32	MG	a	4023	1/1	1.00	0.04	95,95,95,95	0
32	MG	A	3540	1/1	1.00	0.02	63,63,63,63	0
32	MG	a	4025	1/1	1.00	0.02	0,0,0,0	0
32	MG	A	3059	1/1	1.00	0.02	36,36,36,36	0
32	MG	A	3060	1/1	1.00	0.03	35,35,35,35	0
32	MG	A	4176	1/1	1.00	0.00	21,21,21,21	0
32	MG	A	4177	1/1	1.00	0.02	20,20,20,20	0
32	MG	A	3543	1/1	1.00	0.03	78,78,78,78	0
32	MG	a	4031	1/1	1.00	0.01	2,2,2,2	0
32	MG	A	3544	1/1	1.00	0.02	82,82,82,82	0
32	MG	A	4180	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3545	1/1	1.00	0.04	52,52,52,52	0
32	MG	a	4035	1/1	1.00	0.04	37,37,37,37	0
32	MG	a	4036	1/1	1.00	0.02	13,13,13,13	0
32	MG	A	3546	1/1	1.00	0.04	70,70,70,70	0
32	MG	a	4038	1/1	1.00	0.03	5,5,5,5	0
32	MG	A	3061	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3548	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3062	1/1	1.00	0.01	48,48,48,48	0
32	MG	A	3550	1/1	1.00	0.05	62,62,62,62	0
32	MG	A	3551	1/1	1.00	0.05	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	4046	1/1	1.00	0.01	44,44,44,44	0
32	MG	A	3554	1/1	1.00	0.03	65,65,65,65	0
32	MG	A	3555	1/1	1.00	0.03	76,76,76,76	0
32	MG	A	3556	1/1	1.00	0.01	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3557	1/1	1.00	0.01	59,59,59,59	0
32	MG	A	4194	1/1	1.00	0.04	34,34,34,34	0
32	MG	A	3558	1/1	1.00	0.04	71,71,71,71	0
32	MG	a	4053	1/1	1.00	0.02	6,6,6,6	0
32	MG	A	3559	1/1	1.00	0.05	64,64,64,64	0
32	MG	A	3560	1/1	1.00	0.01	74,74,74,74	0
32	MG	A	3561	1/1	1.00	0.01	49,49,49,49	0
32	MG	a	4057	1/1	1.00	0.01	9,9,9,9	0
32	MG	A	3008	1/1	1.00	0.04	35,35,35,35	0
32	MG	A	3563	1/1	1.00	0.02	72,72,72,72	0
32	MG	A	3564	1/1	1.00	0.02	69,69,69,69	0
32	MG	A	3565	1/1	1.00	0.01	62,62,62,62	0
32	MG	a	4062	1/1	1.00	0.02	7,7,7,7	0
32	MG	A	3566	1/1	1.00	0.02	71,71,71,71	0
32	MG	A	4204	1/1	1.00	0.01	27,27,27,27	0
32	MG	A	3567	1/1	1.00	0.01	56,56,56,56	0
32	MG	A	3568	1/1	1.00	0.01	74,74,74,74	0
32	MG	A	3569	1/1	1.00	0.02	92,92,92,92	0
32	MG	A	4208	1/1	1.00	0.03	25,25,25,25	0
32	MG	A	3570	1/1	1.00	0.03	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	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	3573	1/1	1.00	0.03	74,74,74,74	0
32	MG	A	3574	1/1	1.00	0.03	76,76,76,76	0
32	MG	a	4076	1/1	1.00	0.06	95,95,95,95	0
32	MG	A	3575	1/1	1.00	0.01	67,67,67,67	0
32	MG	A	4217	1/1	1.00	0.06	27,27,27,27	0
32	MG	a	4079	1/1	1.00	0.01	9,9,9,9	0
32	MG	A	3576	1/1	1.00	0.03	69,69,69,69	0
32	MG	A	3064	1/1	1.00	0.03	82,82,82,82	0
32	MG	A	4220	1/1	1.00	0.01	27,27,27,27	0
32	MG	A	3578	1/1	1.00	0.03	64,64,64,64	0
32	MG	A	3065	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3580	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3066	1/1	1.00	0.04	20,20,20,20	0
32	MG	A	3067	1/1	1.00	0.02	5,5,5,5	0
32	MG	A	3068	1/1	1.00	0.01	29,29,29,29	0
32	MG	a	4089	1/1	1.00	0.04	38,38,38,38	0
32	MG	A	4227	1/1	1.00	0.01	25,25,25,25	0
32	MG	A	3584	1/1	1.00	0.02	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	4229	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3585	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3586	1/1	1.00	0.01	57,57,57,57	0
32	MG	A	3587	1/1	1.00	0.02	75,75,75,75	0
32	MG	A	3588	1/1	1.00	0.04	56,56,56,56	0
32	MG	A	4234	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3589	1/1	1.00	0.01	57,57,57,57	0
32	MG	a	4099	1/1	1.00	0.03	66,66,66,66	0
32	MG	a	4100	1/1	1.00	0.01	4,4,4,4	0
32	MG	A	3590	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	4102	1/1	1.00	0.03	2,2,2,2	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
32	MG	a	4105	1/1	1.00	0.03	3,3,3,3	0
32	MG	a	4106	1/1	1.00	0.02	1,1,1,1	0
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	4243	1/1	1.00	0.02	27,27,27,27	0
32	MG	a	4112	1/1	1.00	0.01	1,1,1,1	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	3599	1/1	1.00	0.01	56,56,56,56	0
32	MG	a	4116	1/1	1.00	0.02	7,7,7,7	0
32	MG	A	3069	1/1	1.00	0.02	38,38,38,38	0
32	MG	A	3009	1/1	1.00	0.02	18,18,18,18	0
32	MG	A	4249	1/1	1.00	0.07	30,30,30,30	0
32	MG	A	3071	1/1	1.00	0.02	22,22,22,22	0
32	MG	A	3072	1/1	1.00	0.02	56,56,56,56	0
32	MG	A	3073	1/1	1.00	0.01	39,39,39,39	0
32	MG	A	3605	1/1	1.00	0.02	17,17,17,17	0
32	MG	a	4124	1/1	1.00	0.07	36,36,36,36	0
32	MG	A	3074	1/1	1.00	0.02	37,37,37,37	0
32	MG	a	4126	1/1	1.00	0.05	95,95,95,95	0
32	MG	a	4127	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	4255	1/1	1.00	0.05	31,31,31,31	0
32	MG	A	3075	1/1	1.00	0.01	32,32,32,32	0
32	MG	A	3076	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3077	1/1	1.00	0.03	18,18,18,18	0
32	MG	A	3010	1/1	1.00	0.03	54,54,54,54	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(Å^2)	Q<0.9
32	MG	A	3611	1/1	1.00	0.04	0,0,0,0	0
32	MG	A	3079	1/1	1.00	0.01	50,50,50,50	0
32	MG	A	3080	1/1	1.00	0.03	70,70,70,70	0
32	MG	A	3081	1/1	1.00	0.02	13,13,13,13	0
32	MG	A	3615	1/1	1.00	0.05	9,9,9,9	0
32	MG	A	3616	1/1	1.00	0.04	1,1,1,1	0
32	MG	A	3617	1/1	1.00	0.04	37,37,37,37	0
32	MG	a	4141	1/1	1.00	0.02	1,1,1,1	0
32	MG	A	3082	1/1	1.00	0.01	62,62,62,62	0
32	MG	A	3083	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	4144	1/1	1.00	0.02	22,22,22,22	0
32	MG	A	3084	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3085	1/1	1.00	0.02	32,32,32,32	0
32	MG	A	3086	1/1	1.00	0.01	65,65,65,65	0
32	MG	A	3087	1/1	1.00	0.03	42,42,42,42	0
32	MG	A	3624	1/1	1.00	0.03	3,3,3,3	0
32	MG	A	3088	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3626	1/1	1.00	0.02	11,11,11,11	0
32	MG	a	4152	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3627	1/1	1.00	0.02	11,11,11,11	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	3630	1/1	1.00	0.04	2,2,2,2	0
32	MG	A	3091	1/1	1.00	0.01	24,24,24,24	0
32	MG	A	3092	1/1	1.00	0.01	24,24,24,24	0
32	MG	A	4282	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	4160	1/1	1.00	0.02	10,10,10,10	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	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	4165	1/1	1.00	0.03	6,6,6,6	0
32	MG	A	4287	1/1	1.00	0.07	33,33,33,33	0
32	MG	A	4288	1/1	1.00	0.03	29,29,29,29	0
32	MG	A	3097	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3098	1/1	1.00	0.02	37,37,37,37	0
32	MG	A	3099	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	3640	1/1	1.00	0.02	17,17,17,17	0
32	MG	a	4172	1/1	1.00	0.02	4,4,4,4	0
32	MG	a	4173	1/1	1.00	0.02	40,40,40,40	0
32	MG	A	3100	1/1	1.00	0.02	26,26,26,26	0
32	MG	A	3642	1/1	1.00	0.03	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3101	1/1	1.00	0.02	42,42,42,42	0
32	MG	A	3102	1/1	1.00	0.03	42,42,42,42	0
32	MG	A	3103	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3646	1/1	1.00	0.04	22,22,22,22	0
32	MG	A	3104	1/1	1.00	0.02	79,79,79,79	0
32	MG	a	4181	1/1	1.00	0.03	2,2,2,2	0
32	MG	A	3105	1/1	1.00	0.00	20,20,20,20	0
32	MG	A	3649	1/1	1.00	0.02	0,0,0,0	0
32	MG	a	4184	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	4303	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3651	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	3106	1/1	1.00	0.06	38,38,38,38	0
32	MG	a	4189	1/1	1.00	0.02	0,0,0,0	0
32	MG	A	3107	1/1	1.00	0.01	40,40,40,40	0
32	MG	A	4307	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3108	1/1	1.00	0.03	45,45,45,45	0
32	MG	A	3655	1/1	1.00	0.02	4,4,4,4	0
32	MG	a	4194	1/1	1.00	0.03	48,48,48,48	0
32	MG	A	3109	1/1	1.00	0.02	15,15,15,15	0
32	MG	A	3657	1/1	1.00	0.05	8,8,8,8	0
32	MG	A	4312	1/1	1.00	0.03	27,27,27,27	0
32	MG	A	3658	1/1	1.00	0.03	95,95,95,95	0
32	MG	A	3659	1/1	1.00	0.03	95,95,95,95	0
32	MG	a	4200	1/1	1.00	0.01	8,8,8,8	0
32	MG	A	3110	1/1	1.00	0.01	30,30,30,30	0
32	MG	a	4202	1/1	1.00	0.04	16,16,16,16	0
32	MG	A	3111	1/1	1.00	0.03	49,49,49,49	0
32	MG	A	3112	1/1	1.00	0.02	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	4320	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3115	1/1	1.00	0.01	53,53,53,53	0
32	MG	a	4209	1/1	1.00	0.01	0,0,0,0	0
32	MG	a	4210	1/1	1.00	0.03	25,25,25,25	0
32	MG	A	4322	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	4212	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	4213	1/1	1.00	0.03	10,10,10,10	0
32	MG	A	3116	1/1	1.00	0.03	28,28,28,28	0
32	MG	A	3667	1/1	1.00	0.03	12,12,12,12	0
32	MG	A	3117	1/1	1.00	0.04	33,33,33,33	0
32	MG	A	3118	1/1	1.00	0.03	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3119	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3120	1/1	1.00	0.01	49,49,49,49	0
32	MG	a	4220	1/1	1.00	0.02	7,7,7,7	0
32	MG	A	3121	1/1	1.00	0.01	14,14,14,14	0
32	MG	A	4330	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3122	1/1	1.00	0.08	21,21,21,21	0
32	MG	A	3674	1/1	1.00	0.06	22,22,22,22	0
32	MG	A	3123	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3124	1/1	1.00	0.02	11,11,11,11	0
32	MG	A	4335	1/1	1.00	0.03	18,18,18,18	0
32	MG	A	4336	1/1	1.00	0.03	27,27,27,27	0
32	MG	a	4229	1/1	1.00	0.01	1,1,1,1	0
32	MG	A	3125	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3678	1/1	1.00	0.03	1,1,1,1	0
32	MG	A	4339	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3126	1/1	1.00	0.02	44,44,44,44	0
32	MG	A	3680	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3127	1/1	1.00	0.02	35,35,35,35	0
32	MG	A	3128	1/1	1.00	0.01	49,49,49,49	0
32	MG	A	3129	1/1	1.00	0.02	29,29,29,29	0
32	MG	A	3130	1/1	1.00	0.02	121,121,121,121	0
32	MG	a	4239	1/1	1.00	0.04	38,38,38,38	0
32	MG	a	4240	1/1	1.00	0.05	1,1,1,1	0
32	MG	A	3131	1/1	1.00	0.01	33,33,33,33	0
32	MG	A	3132	1/1	1.00	0.01	50,50,50,50	0
32	MG	A	3133	1/1	1.00	0.00	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	0.03	43,43,43,43	0
32	MG	A	3136	1/1	1.00	0.03	24,24,24,24	0
32	MG	A	3137	1/1	1.00	0.02	56,56,56,56	0
32	MG	a	4248	1/1	1.00	0.01	1,1,1,1	0
32	MG	a	4249	1/1	1.00	0.03	95,95,95,95	0
32	MG	A	3692	1/1	1.00	0.05	95,95,95,95	0
32	MG	A	3138	1/1	1.00	0.02	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	0.03	15,15,15,15	0
32	MG	A	3141	1/1	1.00	0.01	71,71,71,71	0
32	MG	A	3142	1/1	1.00	0.04	26,26,26,26	0
32	MG	a	4256	1/1	1.00	0.02	6,6,6,6	0
32	MG	A	3143	1/1	1.00	0.02	49,49,49,49	0
32	MG	A	3144	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3700	1/1	1.00	0.02	12,12,12,12	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3145	1/1	1.00	0.04	28,28,28,28	0
32	MG	A	3146	1/1	1.00	0.01	20,20,20,20	0
32	MG	A	4364	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	4263	1/1	1.00	0.01	21,21,21,21	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	0.03	38,38,38,38	0
32	MG	A	4369	1/1	1.00	0.01	25,25,25,25	0
32	MG	A	4370	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3707	1/1	1.00	0.02	5,5,5,5	0
32	MG	a	4271	1/1	1.00	0.01	22,22,22,22	0
32	MG	A	3151	1/1	1.00	0.02	42,42,42,42	0
32	MG	A	3011	1/1	1.00	0.02	34,34,34,34	0
32	MG	A	3153	1/1	1.00	0.01	21,21,21,21	0
32	MG	A	3711	1/1	1.00	0.05	16,16,16,16	0
32	MG	A	3712	1/1	1.00	0.04	7,7,7,7	0
32	MG	A	3154	1/1	1.00	0.01	37,37,37,37	0
32	MG	A	3155	1/1	1.00	0.02	34,34,34,34	0
32	MG	a	4279	1/1	1.00	0.02	22,22,22,22	0
32	MG	A	3715	1/1	1.00	0.02	14,14,14,14	0
32	MG	A	3716	1/1	1.00	0.02	30,30,30,30	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	B	201	1/1	1.00	0.04	51,51,51,51	0
32	MG	B	202	1/1	1.00	0.01	37,37,37,37	0
32	MG	B	203	1/1	1.00	0.02	49,49,49,49	0
32	MG	B	204	1/1	1.00	0.01	48,48,48,48	0
32	MG	B	205	1/1	1.00	0.01	54,54,54,54	0
32	MG	B	206	1/1	1.00	0.03	44,44,44,44	0
32	MG	B	207	1/1	1.00	0.01	62,62,62,62	0
32	MG	B	208	1/1	1.00	0.06	74,74,74,74	0
32	MG	a	4292	1/1	1.00	0.01	33,33,33,33	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	A	3719	1/1	1.00	0.02	30,30,30,30	0
32	MG	A	3158	1/1	1.00	0.02	49,49,49,49	0
32	MG	B	213	1/1	1.00	0.04	75,75,75,75	0
32	MG	B	214	1/1	1.00	0.01	63,63,63,63	0
32	MG	B	215	1/1	1.00	0.01	78,78,78,78	0
32	MG	B	216	1/1	1.00	0.02	66,66,66,66	0
32	MG	B	217	1/1	1.00	0.02	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	B	218	1/1	1.00	0.02	86,86,86,86	0
32	MG	B	219	1/1	1.00	0.01	66,66,66,66	0
32	MG	a	4304	1/1	1.00	0.04	22,22,22,22	0
32	MG	B	220	1/1	1.00	0.04	73,73,73,73	0
32	MG	A	3159	1/1	1.00	0.02	38,38,38,38	0
32	MG	B	222	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	4308	1/1	1.00	0.01	32,32,32,32	0
32	MG	A	3160	1/1	1.00	0.04	42,42,42,42	0
32	MG	A	3161	1/1	1.00	0.01	25,25,25,25	0
32	MG	A	3724	1/1	1.00	0.05	19,19,19,19	0
32	MG	A	3012	1/1	1.00	0.02	22,22,22,22	0
32	MG	A	3163	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3164	1/1	1.00	0.01	43,43,43,43	0
32	MG	A	3165	1/1	1.00	0.01	20,20,20,20	0
32	MG	A	3166	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3167	1/1	1.00	0.01	15,15,15,15	0
32	MG	A	3168	1/1	1.00	0.02	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	0.02	42,42,42,42	0
32	MG	A	3171	1/1	1.00	0.03	41,41,41,41	0
32	MG	a	4322	1/1	1.00	0.05	22,22,22,22	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	C	301	1/1	1.00	0.01	27,27,27,27	0
32	MG	C	302	1/1	1.00	0.01	46,46,46,46	0
32	MG	a	4327	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	4328	1/1	1.00	0.01	28,28,28,28	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	a	4331	1/1	1.00	0.01	25,25,25,25	0
32	MG	a	4332	1/1	1.00	0.01	27,27,27,27	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	C	309	1/1	1.00	0.03	51,51,51,51	0
32	MG	C	310	1/1	1.00	0.03	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	a	4342	1/1	1.00	0.04	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(Å^2)	Q<0.9
32	MG	C	314	1/1	1.00	0.02	76,76,76,76	0
32	MG	a	4345	1/1	1.00	0.01	22,22,22,22	0
32	MG	C	315	1/1	1.00	0.07	78,78,78,78	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	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	3741	1/1	1.00	0.02	56,56,56,56	0
32	MG	C	321	1/1	1.00	0.03	16,16,16,16	0
32	MG	A	3178	1/1	1.00	0.02	29,29,29,29	0
32	MG	A	3179	1/1	1.00	0.02	21,21,21,21	0
32	MG	A	3013	1/1	1.00	0.01	15,15,15,15	0
32	MG	A	3181	1/1	1.00	0.02	38,38,38,38	0
32	MG	A	3182	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	4358	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3183	1/1	1.00	0.01	56,56,56,56	0
32	MG	A	3184	1/1	1.00	0.02	124,124,124,124	0
32	MG	a	4361	1/1	1.00	0.01	17,17,17,17	0
32	MG	A	3185	1/1	1.00	0.01	109,109,109,109	0
32	MG	a	4363	1/1	1.00	0.01	28,28,28,28	0
32	MG	C	330	1/1	1.00	0.04	28,28,28,28	0
32	MG	C	331	1/1	1.00	0.02	29,29,29,29	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	3188	1/1	1.00	0.01	28,28,28,28	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	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	C	340	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3194	1/1	1.00	0.02	33,33,33,33	0
32	MG	A	3195	1/1	1.00	0.01	56,56,56,56	0
32	MG	C	343	1/1	1.00	0.01	29,29,29,29	0
32	MG	A	3760	1/1	1.00	0.01	14,14,14,14	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	0.02	39,39,39,39	0
32	MG	D	304	1/1	1.00	0.01	60,60,60,60	0
32	MG	D	305	1/1	1.00	0.02	50,50,50,50	0
32	MG	a	4384	1/1	1.00	0.03	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(Å^2)	Q<0.9
32	MG	A	3196	1/1	1.00	0.05	27,27,27,27	0
32	MG	A	3197	1/1	1.00	0.03	23,23,23,23	0
32	MG	D	308	1/1	1.00	0.03	31,31,31,31	0
32	MG	E	301	1/1	1.00	0.03	37,37,37,37	0
32	MG	a	4390	1/1	1.00	0.02	24,24,24,24	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	0.01	73,73,73,73	0
32	MG	E	305	1/1	1.00	0.02	86,86,86,86	0
32	MG	E	306	1/1	1.00	0.02	67,67,67,67	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	4399	1/1	1.00	0.01	23,23,23,23	0
32	MG	E	310	1/1	1.00	0.04	62,62,62,62	0
32	MG	A	3014	1/1	1.00	0.02	18,18,18,18	0
32	MG	A	3764	1/1	1.00	0.02	16,16,16,16	0
32	MG	A	3199	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3200	1/1	1.00	0.01	25,25,25,25	0
32	MG	E	315	1/1	1.00	0.01	11,11,11,11	0
32	MG	A	3201	1/1	1.00	0.01	63,63,63,63	0
32	MG	E	317	1/1	1.00	0.01	95,95,95,95	0
32	MG	A	3202	1/1	1.00	0.01	15,15,15,15	0
32	MG	A	3203	1/1	1.00	0.02	28,28,28,28	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	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
32	MG	A	3206	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3207	1/1	1.00	0.02	36,36,36,36	0
32	MG	A	3774	1/1	1.00	0.01	22,22,22,22	0
32	MG	A	3001	1/1	1.00	0.02	25,25,25,25	0
32	MG	A	3209	1/1	1.00	0.01	38,38,38,38	0
32	MG	A	3210	1/1	1.00	0.03	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	0.02	42,42,42,42	0
32	MG	a	4423	1/1	1.00	0.02	24,24,24,24	0
32	MG	F	201	1/1	1.00	0.02	76,76,76,76	0
32	MG	a	4425	1/1	1.00	0.02	27,27,27,27	0
32	MG	F	202	1/1	1.00	0.01	71,71,71,71	0
32	MG	F	203	1/1	1.00	0.02	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3214	1/1	1.00	0.01	26,26,26,26	0
32	MG	A	3782	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3215	1/1	1.00	0.01	17,17,17,17	0
32	MG	A	3784	1/1	1.00	0.03	95,95,95,95	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	3216	1/1	1.00	0.02	56,56,56,56	0
32	MG	H	203	1/1	1.00	0.01	33,33,33,33	0
32	MG	H	204	1/1	1.00	0.01	29,29,29,29	0
32	MG	a	4437	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3217	1/1	1.00	0.04	23,23,23,23	0
32	MG	a	4439	1/1	1.00	0.02	29,29,29,29	0
32	MG	a	4440	1/1	1.00	0.03	23,23,23,23	0
32	MG	A	3218	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	4442	1/1	1.00	0.03	30,30,30,30	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	I	201	1/1	1.00	0.03	56,56,56,56	0
32	MG	a	4446	1/1	1.00	0.03	31,31,31,31	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	0.03	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	0.04	49,49,49,49	0
32	MG	A	3221	1/1	1.00	0.03	40,40,40,40	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	4457	1/1	1.00	0.02	14,14,14,14	0
32	MG	I	212	1/1	1.00	0.01	0,0,0,0	0
32	MG	A	3224	1/1	1.00	0.01	39,39,39,39	0
32	MG	J	202	1/1	1.00	0.01	51,51,51,51	0
32	MG	A	3225	1/1	1.00	0.04	58,58,58,58	0
32	MG	A	3226	1/1	1.00	0.03	53,53,53,53	0
32	MG	A	3227	1/1	1.00	0.01	51,51,51,51	0
32	MG	A	3797	1/1	1.00	0.02	22,22,22,22	0
32	MG	A	3228	1/1	1.00	0.01	65,65,65,65	0
32	MG	a	4466	1/1	1.00	0.03	35,35,35,35	0
32	MG	A	3799	1/1	1.00	0.01	1,1,1,1	0
32	MG	A	3229	1/1	1.00	0.01	46,46,46,46	0
32	MG	K	201	1/1	1.00	0.01	6,6,6,6	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	K	202	1/1	1.00	0.03	21,21,21,21	0
32	MG	a	4471	1/1	1.00	0.01	27,27,27,27	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	K	203	1/1	1.00	0.01	0,0,0,0	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	3230	1/1	1.00	0.03	42,42,42,42	0
32	MG	a	4479	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3802	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3016	1/1	1.00	0.02	58,58,58,58	0
32	MG	A	3804	1/1	1.00	0.02	62,62,62,62	0
32	MG	A	3232	1/1	1.00	0.07	59,59,59,59	0
32	MG	K	212	1/1	1.00	0.01	7,7,7,7	0
32	MG	A	3233	1/1	1.00	0.02	43,43,43,43	0
32	MG	A	3017	1/1	1.00	0.03	34,34,34,34	0
32	MG	A	3235	1/1	1.00	0.05	35,35,35,35	0
32	MG	K	216	1/1	1.00	0.08	27,27,27,27	0
32	MG	A	3236	1/1	1.00	0.01	36,36,36,36	0
32	MG	K	218	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3237	1/1	1.00	0.02	85,85,85,85	0
32	MG	A	3018	1/1	1.00	0.01	60,60,60,60	0
32	MG	A	3239	1/1	1.00	0.02	53,53,53,53	0
32	MG	A	3240	1/1	1.00	0.03	103,103,103,103	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	0.01	26,26,26,26	0
32	MG	L	204	1/1	1.00	0.03	53,53,53,53	0
32	MG	A	3241	1/1	1.00	0.02	44,44,44,44	0
32	MG	L	206	1/1	1.00	0.04	95,95,95,95	0
32	MG	a	4501	1/1	1.00	0.07	31,31,31,31	0
32	MG	a	4502	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3242	1/1	1.00	0.02	61,61,61,61	0
32	MG	L	208	1/1	1.00	0.02	31,31,31,31	0
32	MG	A	3243	1/1	1.00	0.06	55,55,55,55	0
32	MG	a	4506	1/1	1.00	0.01	22,22,22,22	0
32	MG	M	201	1/1	1.00	0.01	41,41,41,41	0
32	MG	M	202	1/1	1.00	0.02	71,71,71,71	0
32	MG	A	3244	1/1	1.00	0.05	59,59,59,59	0
32	MG	A	3245	1/1	1.00	0.03	60,60,60,60	0
32	MG	O	201	1/1	1.00	0.02	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	4512	1/1	1.00	0.02	23,23,23,23	0
32	MG	O	202	1/1	1.00	0.02	59,59,59,59	0
32	MG	A	3019	1/1	1.00	0.02	24,24,24,24	0
32	MG	A	3020	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3248	1/1	1.00	0.03	32,32,32,32	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	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	O	210	1/1	1.00	0.01	20,20,20,20	0
32	MG	P	201	1/1	1.00	0.02	36,36,36,36	0
32	MG	P	202	1/1	1.00	0.03	54,54,54,54	0
32	MG	P	203	1/1	1.00	0.03	67,67,67,67	0
32	MG	A	3251	1/1	1.00	0.03	46,46,46,46	0
32	MG	A	3252	1/1	1.00	0.02	76,76,76,76	0
32	MG	a	4527	1/1	1.00	0.01	23,23,23,23	0
32	MG	A	3253	1/1	1.00	0.05	55,55,55,55	0
32	MG	A	3254	1/1	1.00	0.03	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	4532	1/1	1.00	0.03	27,27,27,27	0
32	MG	A	3257	1/1	1.00	0.04	52,52,52,52	0
32	MG	A	3258	1/1	1.00	0.03	58,58,58,58	0
32	MG	A	3259	1/1	1.00	0.03	48,48,48,48	0
32	MG	Q	206	1/1	1.00	0.01	31,31,31,31	0
32	MG	A	3260	1/1	1.00	0.03	62,62,62,62	0
32	MG	a	4538	1/1	1.00	0.04	27,27,27,27	0
32	MG	A	3261	1/1	1.00	0.04	67,67,67,67	0
32	MG	a	4540	1/1	1.00	0.02	29,29,29,29	0
32	MG	A	3262	1/1	1.00	0.03	53,53,53,53	0
32	MG	a	4542	1/1	1.00	0.02	24,24,24,24	0
32	MG	a	4543	1/1	1.00	0.03	17,17,17,17	0
32	MG	a	4544	1/1	1.00	0.02	27,27,27,27	0
32	MG	A	3263	1/1	1.00	0.03	22,22,22,22	0
32	MG	R	201	1/1	1.00	0.02	68,68,68,68	0
32	MG	R	202	1/1	1.00	0.01	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	3021	1/1	1.00	0.03	43,43,43,43	0
32	MG	A	3265	1/1	1.00	0.04	48,48,48,48	0
32	MG	A	3839	1/1	1.00	0.03	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	A	3266	1/1	1.00	0.04	47,47,47,47	0
32	MG	A	3267	1/1	1.00	0.04	89,89,89,89	0
32	MG	a	4556	1/1	1.00	0.02	23,23,23,23	0
32	MG	A	3268	1/1	1.00	0.05	84,84,84,84	0
32	MG	A	3843	1/1	1.00	0.03	95,95,95,95	0
32	MG	a	4559	1/1	1.00	0.04	30,30,30,30	0
32	MG	A	3269	1/1	1.00	0.02	54,54,54,54	0
32	MG	A	3270	1/1	1.00	0.03	78,78,78,78	0
32	MG	a	4562	1/1	1.00	0.01	28,28,28,28	0
32	MG	A	3271	1/1	1.00	0.01	35,35,35,35	0
32	MG	R	216	1/1	1.00	0.01	28,28,28,28	0
32	MG	R	217	1/1	1.00	0.01	24,24,24,24	0
32	MG	A	3272	1/1	1.00	0.02	49,49,49,49	0
32	MG	A	3022	1/1	1.00	0.02	66,66,66,66	0
32	MG	a	4568	1/1	1.00	0.02	28,28,28,28	0
32	MG	a	4569	1/1	1.00	0.02	32,32,32,32	0
32	MG	S	101	1/1	1.00	0.02	27,27,27,27	0
32	MG	a	4571	1/1	1.00	0.02	30,30,30,30	0
32	MG	a	4572	1/1	1.00	0.02	31,31,31,31	0
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	3274	1/1	1.00	0.01	36,36,36,36	0
32	MG	S	105	1/1	1.00	0.01	1,1,1,1	0
32	MG	A	3275	1/1	1.00	0.03	82,82,82,82	0
32	MG	S	107	1/1	1.00	0.04	20,20,20,20	0
32	MG	A	3851	1/1	1.00	0.06	95,95,95,95	0
32	MG	A	3276	1/1	1.00	0.03	42,42,42,42	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	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	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	4587	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3277	1/1	1.00	0.02	34,34,34,34	0
32	MG	A	3854	1/1	1.00	0.04	95,95,95,95	0
32	MG	A	3278	1/1	1.00	0.03	40,40,40,40	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	T	509	1/1	1.00	0.01	27,27,27,27	0
32	MG	A	3279	1/1	1.00	0.02	54,54,54,54	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(Å^2)	Q<0.9
32	MG	A	3857	1/1	1.00	0.03	5,5,5,5	0
32	MG	T	512	1/1	1.00	0.02	30,30,30,30	0
32	MG	A	3023	1/1	1.00	0.01	74,74,74,74	0
32	MG	A	3024	1/1	1.00	0.02	52,52,52,52	0
32	MG	A	3860	1/1	1.00	0.03	17,17,17,17	0
32	MG	A	3282	1/1	1.00	0.02	37,37,37,37	0
32	MG	A	3283	1/1	1.00	0.05	48,48,48,48	0
32	MG	A	3863	1/1	1.00	0.05	95,95,95,95	0
32	MG	U	301	1/1	1.00	0.01	11,11,11,11	0
32	MG	U	302	1/1	1.00	0.03	48,48,48,48	0
32	MG	a	4606	1/1	1.00	0.03	29,29,29,29	0
32	MG	U	303	1/1	1.00	0.01	65,65,65,65	0
32	MG	U	304	1/1	1.00	0.01	4,4,4,4	0
32	MG	A	3284	1/1	1.00	0.04	45,45,45,45	0
32	MG	a	4610	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3285	1/1	1.00	0.02	41,41,41,41	0
32	MG	A	3286	1/1	1.00	0.03	55,55,55,55	0
32	MG	A	3287	1/1	1.00	0.02	51,51,51,51	0
32	MG	A	3288	1/1	1.00	0.04	61,61,61,61	0
32	MG	b	201	1/1	1.00	0.02	91,91,91,91	0
32	MG	U	310	1/1	1.00	0.01	27,27,27,27	0
32	MG	b	203	1/1	1.00	0.02	29,29,29,29	0
32	MG	b	204	1/1	1.00	0.01	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	0.03	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	3869	1/1	1.00	0.03	35,35,35,35	0
32	MG	V	101	1/1	1.00	0.02	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	0.03	64,64,64,64	0
32	MG	b	216	1/1	1.00	0.02	28,28,28,28	0
32	MG	A	3289	1/1	1.00	0.02	52,52,52,52	0
32	MG	W	101	1/1	1.00	0.02	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	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(Å^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	0.02	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	0.02	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	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	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	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	3873	1/1	1.00	0.03	52,52,52,52	0
32	MG	W	113	1/1	1.00	0.02	0,0,0,0	0
32	MG	A	3292	1/1	1.00	0.02	87,87,87,87	0
32	MG	A	3875	1/1	1.00	0.01	17,17,17,17	0
32	MG	X	101	1/1	1.00	0.03	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	X	105	1/1	1.00	0.02	95,95,95,95	0
32	MG	A	3293	1/1	1.00	0.01	43,43,43,43	0
32	MG	A	3025	1/1	1.00	0.01	18,18,18,18	0
32	MG	A	3878	1/1	1.00	0.02	20,20,20,20	0
32	MG	A	3879	1/1	1.00	0.05	95,95,95,95	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	0.01	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	0.04	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	d	312	1/1	1.00	0.01	75,75,75,75	0
32	MG	d	313	1/1	1.00	0.03	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	X	110	1/1	1.00	0.03	95,95,95,95	0
32	MG	A	3295	1/1	1.00	0.03	55,55,55,55	0
32	MG	d	318	1/1	1.00	0.02	40,40,40,40	0
32	MG	A	3296	1/1	1.00	0.04	66,66,66,66	0
32	MG	A	3297	1/1	1.00	0.02	33,33,33,33	0
32	MG	d	321	1/1	1.00	0.04	39,39,39,39	0
32	MG	d	322	1/1	1.00	0.03	26,26,26,26	0
32	MG	A	3883	1/1	1.00	0.03	18,18,18,18	0
32	MG	A	3298	1/1	1.00	0.03	80,80,80,80	0
32	MG	X	116	1/1	1.00	0.02	24,24,24,24	0
32	MG	e	301	1/1	1.00	0.01	51,51,51,51	0
32	MG	e	302	1/1	1.00	0.03	49,49,49,49	0
32	MG	e	303	1/1	1.00	0.03	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	0.02	67,67,67,67	0
32	MG	e	310	1/1	1.00	0.03	78,78,78,78	0
32	MG	A	3299	1/1	1.00	0.01	36,36,36,36	0
32	MG	A	3300	1/1	1.00	0.03	49,49,49,49	0
32	MG	e	313	1/1	1.00	0.02	1,1,1,1	0
32	MG	0	102	1/1	1.00	0.02	5,5,5,5	0
32	MG	A	3026	1/1	1.00	0.04	35,35,35,35	0
32	MG	A	3302	1/1	1.00	0.01	44,44,44,44	0
32	MG	A	3303	1/1	1.00	0.01	84,84,84,84	0
32	MG	e	318	1/1	1.00	0.01	95,95,95,95	0
32	MG	A	3304	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3027	1/1	1.00	0.02	49,49,49,49	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	2	101	1/1	1.00	0.01	26,26,26,26	0
32	MG	e	324	1/1	1.00	0.02	25,25,25,25	0
32	MG	2	102	1/1	1.00	0.02	26,26,26,26	0
32	MG	e	326	1/1	1.00	0.01	30,30,30,30	0
32	MG	A	3306	1/1	1.00	0.05	34,34,34,34	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(Å^2)	Q<0.9
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	e	331	1/1	1.00	0.02	26,26,26,26	0
32	MG	A	3307	1/1	1.00	0.04	44,44,44,44	0
32	MG	A	3308	1/1	1.00	0.03	65,65,65,65	0
32	MG	A	3309	1/1	1.00	0.02	61,61,61,61	0
32	MG	A	3310	1/1	1.00	0.02	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	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	3	101	1/1	1.00	0.01	20,20,20,20	0
32	MG	g	201	1/1	1.00	0.01	32,32,32,32	0
32	MG	g	202	1/1	1.00	0.03	35,35,35,35	0
32	MG	3	102	1/1	1.00	0.04	31,31,31,31	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	3003	1/1	1.00	0.03	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	3313	1/1	1.00	0.01	78,78,78,78	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	a	3007	1/1	1.00	0.03	35,35,35,35	0
32	MG	a	3008	1/1	1.00	0.02	16,16,16,16	0
32	MG	h	206	1/1	1.00	0.03	9,9,9,9	0
32	MG	a	3009	1/1	1.00	0.01	26,26,26,26	0
32	MG	h	208	1/1	1.00	0.02	0,0,0,0	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	h	217	1/1	1.00	0.03	26,26,26,26	0
32	MG	a	3018	1/1	1.00	0.01	26,26,26,26	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(Å^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	3019	1/1	1.00	0.03	7,7,7,7	0
32	MG	a	3020	1/1	1.00	0.03	17,17,17,17	0
32	MG	i	209	1/1	1.00	0.03	15,15,15,15	0
32	MG	a	3021	1/1	1.00	0.01	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	a	3025	1/1	1.00	0.03	61,61,61,61	0
32	MG	i	215	1/1	1.00	0.01	25,25,25,25	0
32	MG	a	3026	1/1	1.00	0.01	16,16,16,16	0
32	MG	A	3314	1/1	1.00	0.04	64,64,64,64	0
32	MG	a	3028	1/1	1.00	0.01	41,41,41,41	0
32	MG	a	3029	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3030	1/1	1.00	0.02	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	0.02	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	a	3035	1/1	1.00	0.03	42,42,42,42	0
32	MG	a	3036	1/1	1.00	0.04	33,33,33,33	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	0.02	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	a	3037	1/1	1.00	0.01	41,41,41,41	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	0.01	65,65,65,65	0
32	MG	a	3038	1/1	1.00	0.02	52,52,52,52	0
32	MG	a	3039	1/1	1.00	0.01	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	0.02	38,38,38,38	0
32	MG	a	3042	1/1	1.00	0.04	30,30,30,30	0
32	MG	a	3043	1/1	1.00	0.03	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	j	219	1/1	1.00	0.01	22,22,22,22	0
32	MG	a	3044	1/1	1.00	0.02	41,41,41,41	0
32	MG	a	3045	1/1	1.00	0.02	33,33,33,33	0
32	MG	k	201	1/1	1.00	0.02	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	k	206	1/1	1.00	0.03	8,8,8,8	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	3315	1/1	1.00	0.01	52,52,52,52	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	k	216	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	3055	1/1	1.00	0.03	39,39,39,39	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	a	3058	1/1	1.00	0.02	64,64,64,64	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	0.01	27,27,27,27	0
32	MG	l	205	1/1	1.00	0.02	50,50,50,50	0
32	MG	a	3059	1/1	1.00	0.01	34,34,34,34	0
32	MG	l	207	1/1	1.00	0.02	59,59,59,59	0
32	MG	l	208	1/1	1.00	0.02	56,56,56,56	0
32	MG	l	209	1/1	1.00	0.02	32,32,32,32	0
32	MG	l	210	1/1	1.00	0.04	69,69,69,69	0
32	MG	l	211	1/1	1.00	0.03	61,61,61,61	0
32	MG	a	3060	1/1	1.00	0.01	29,29,29,29	0
32	MG	l	213	1/1	1.00	0.01	12,12,12,12	0
32	MG	a	3061	1/1	1.00	0.01	40,40,40,40	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	a	3064	1/1	1.00	0.02	66,66,66,66	0
32	MG	m	202	1/1	1.00	0.03	65,65,65,65	0
32	MG	m	203	1/1	1.00	0.02	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^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	3065	1/1	1.00	0.01	21,21,21,21	0
32	MG	a	3066	1/1	1.00	0.02	40,40,40,40	0
32	MG	a	3067	1/1	1.00	0.01	26,26,26,26	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	m	212	1/1	1.00	0.02	20,20,20,20	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	0.05	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	a	3075	1/1	1.00	0.02	31,31,31,31	0
32	MG	a	3076	1/1	1.00	0.03	70,70,70,70	0
32	MG	n	201	1/1	1.00	0.01	43,43,43,43	0
32	MG	a	3077	1/1	1.00	0.01	14,14,14,14	0
32	MG	a	3078	1/1	1.00	0.02	78,78,78,78	0
32	MG	A	3028	1/1	1.00	0.01	22,22,22,22	0
32	MG	a	3080	1/1	1.00	0.03	45,45,45,45	0
32	MG	a	3081	1/1	1.00	0.02	43,43,43,43	0
32	MG	a	3082	1/1	1.00	0.03	42,42,42,42	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	3083	1/1	1.00	0.01	19,19,19,19	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	0.02	61,61,61,61	0
32	MG	o	212	1/1	1.00	0.03	75,75,75,75	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	a	3086	1/1	1.00	0.03	28,28,28,28	0
32	MG	a	3087	1/1	1.00	0.06	23,23,23,23	0
32	MG	a	3088	1/1	1.00	0.02	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	0.01	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3091	1/1	1.00	0.01	41,41,41,41	0
32	MG	a	3092	1/1	1.00	0.02	15,15,15,15	0
32	MG	a	3093	1/1	1.00	0.02	10,10,10,10	0
32	MG	A	3317	1/1	1.00	0.01	76,76,76,76	0
32	MG	a	3095	1/1	1.00	0.02	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	0.02	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	0.02	131,131,131,131	0
32	MG	a	3101	1/1	1.00	0.01	24,24,24,24	0
32	MG	o	231	1/1	1.00	0.02	26,26,26,26	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	p	204	1/1	1.00	0.02	83,83,83,83	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	3102	1/1	1.00	0.02	30,30,30,30	0
32	MG	a	3103	1/1	1.00	0.01	48,48,48,48	0
32	MG	a	3104	1/1	1.00	0.01	5,5,5,5	0
32	MG	a	3105	1/1	1.00	0.01	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	0.02	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	0.01	26,26,26,26	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	0.01	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	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	0.01	37,37,37,37	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

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
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	0.03	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	0.02	53,53,53,53	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	q	227	1/1	1.00	0.02	25,25,25,25	0
32	MG	a	3129	1/1	1.00	0.02	27,27,27,27	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	r	201	1/1	1.00	0.03	37,37,37,37	0
32	MG	r	202	1/1	1.00	0.02	55,55,55,55	0
32	MG	A	3029	1/1	1.00	0.04	62,62,62,62	0
32	MG	r	204	1/1	1.00	0.02	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	0.01	65,65,65,65	0
32	MG	a	3133	1/1	1.00	0.02	18,18,18,18	0
32	MG	r	210	1/1	1.00	0.01	77,77,77,77	0
32	MG	r	211	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	0.01	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	0.01	40,40,40,40	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	0.01	24,24,24,24	0
32	MG	a	3146	1/1	1.00	0.03	30,30,30,30	0
32	MG	a	3147	1/1	1.00	0.01	28,28,28,28	0
32	MG	a	3148	1/1	1.00	0.05	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3149	1/1	1.00	0.03	29,29,29,29	0
32	MG	a	3150	1/1	1.00	0.02	46,46,46,46	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	3151	1/1	1.00	0.03	55,55,55,55	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	a	3157	1/1	1.00	0.02	26,26,26,26	0
32	MG	t	502	1/1	1.00	0.01	57,57,57,57	0
32	MG	t	503	1/1	1.00	0.02	56,56,56,56	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	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	0.02	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	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	0.01	25,25,25,25	0
32	MG	a	3163	1/1	1.00	0.02	36,36,36,36	0
32	MG	u	319	1/1	1.00	0.02	3,3,3,3	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	u	322	1/1	1.00	0.01	95,95,95,95	0
32	MG	a	3166	1/1	1.00	0.03	7,7,7,7	0
32	MG	a	3167	1/1	1.00	0.01	17,17,17,17	0
32	MG	u	325	1/1	1.00	0.01	27,27,27,27	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(Å^2)	Q<0.9
32	MG	v	102	1/1	1.00	0.04	63,63,63,63	0
32	MG	v	103	1/1	1.00	0.03	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	3168	1/1	1.00	0.02	34,34,34,34	0
32	MG	v	108	1/1	1.00	0.02	30,30,30,30	0
32	MG	a	3169	1/1	1.00	0.04	42,42,42,42	0
32	MG	a	3170	1/1	1.00	0.01	19,19,19,19	0
32	MG	a	3171	1/1	1.00	0.02	28,28,28,28	0
32	MG	w	101	1/1	1.00	0.02	54,54,54,54	0
32	MG	w	102	1/1	1.00	0.02	80,80,80,80	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	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	0.02	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	0.02	3,3,3,3	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	3177	1/1	1.00	0.01	23,23,23,23	0
32	MG	x	106	1/1	1.00	0.03	62,62,62,62	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	x	109	1/1	1.00	0.02	95,95,95,95	0
32	MG	a	3180	1/1	1.00	0.01	43,43,43,43	0
32	MG	A	3319	1/1	1.00	0.04	74,74,74,74	0
32	MG	y	601	1/1	1.00	0.02	56,56,56,56	0
32	MG	y	602	1/1	1.00	0.01	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	0.02	8,8,8,8	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	0.01	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	0.02	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
32	MG	a	3188	1/1	1.00	0.01	23,23,23,23	0
32	MG	a	3189	1/1	1.00	0.01	38,38,38,38	0
32	MG	A	3906	1/1	1.00	0.02	21,21,21,21	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	5	108	1/1	1.00	0.02	30,30,30,30	0
32	MG	6	502	1/1	1.00	0.01	58,58,58,58	0
32	MG	6	503	1/1	1.00	0.02	49,49,49,49	0
32	MG	a	3196	1/1	1.00	0.02	26,26,26,26	0
32	MG	6	505	1/1	1.00	0.04	8,8,8,8	0
32	MG	a	3197	1/1	1.00	0.02	57,57,57,57	0
32	MG	a	3198	1/1	1.00	0.02	42,42,42,42	0
32	MG	7	101	1/1	1.00	0.01	40,40,40,40	0
32	MG	7	102	1/1	1.00	0.01	51,51,51,51	0
32	MG	7	103	1/1	1.00	0.04	85,85,85,85	0
32	MG	a	3199	1/1	1.00	0.01	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	0.03	49,49,49,49	0
32	MG	a	3202	1/1	1.00	0.03	42,42,42,42	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	8	104	1/1	1.00	0.03	9,9,9,9	0
32	MG	8	105	1/1	1.00	0.02	21,21,21,21	0
32	MG	a	3203	1/1	1.00	0.01	32,32,32,32	0
32	MG	8	107	1/1	1.00	0.01	29,29,29,29	0
32	MG	a	3204	1/1	1.00	0.01	27,27,27,27	0
32	MG	8	109	1/1	1.00	0.02	27,27,27,27	0
32	MG	a	3205	1/1	1.00	0.01	27,27,27,27	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	9	102	1/1	1.00	0.02	64,64,64,64	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
33	ZN	T	501	1/1	1.00	0.02	54,54,54,54	0
32	MG	a	3210	1/1	1.00	0.01	19,19,19,19	0
33	ZN	0	108	1/1	1.00	0.01	67,67,67,67	0
33	ZN	13	103	1/1	1.00	0.01	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(Å^2)	Q<0.9
33	ZN	t	501	1/1	1.00	0.02	163,163,163,163	0
32	MG	a	3211	1/1	1.00	0.01	19,19,19,19	0
33	ZN	5	101	1/1	1.00	0.01	33,33,33,33	0
32	MG	a	3212	1/1	1.00	0.03	32,32,32,32	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.