



Full wwPDB X-ray Structure Validation Report ⓘ

Apr 19, 2026 – 03:30 PM UTC

PDB ID : 6UO1 / pdb_00006uo1
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with mRNA (containing pseudouridine at the first position of the codon) and deacylated A-, P-, and E-site tRNAs at 2.95Å resolution
Authors : Batool, Z.; Dobosz-Bartoszek, M.; Polikanov, Y.S.
Deposited on : 2019-10-14
Resolution : 2.95 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	:	FAILED
Mogul	:	2022.3.0, CSD as543be (2022)
Xtriage (Phenix)	:	2.0
EDS	:	3.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
CCP4	:	9.0.010 (Gargrove)
Density-Fitness	:	1.0.12
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

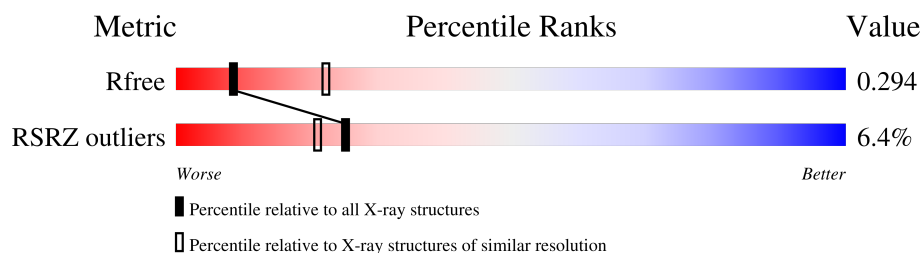
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.95 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	1130 (2.98-2.94)
RSRZ outliers	180081	1130 (2.98-2.94)

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

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
56	MG	1A	3041	-	-	-	X
56	MG	1A	3214	-	-	-	X
56	MG	1A	3234	-	-	-	X
56	MG	1A	3294	-	-	-	X
56	MG	1A	3339	-	-	-	X
56	MG	1A	3429	-	-	-	X
56	MG	1A	3591	-	-	-	X
56	MG	1A	3674	-	-	-	X
56	MG	1a	3031	-	-	-	X
56	MG	1a	3143	-	-	-	X
56	MG	1a	3214	-	-	-	X
56	MG	2a	3082	-	-	-	X
56	MG	2a	3091	-	-	-	X
56	MG	2a	3093	-	-	-	X
56	MG	2a	3096	-	-	-	X

2 Entry composition

There are 59 unique types of molecules in this entry. The entry contains 295398 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 Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1A	2871	Total	C	N	O	P	0	0	0
			61852	27531	11572	19878	2871			
1	2A	2800	Total	C	N	O	P	0	0	0
			60322	26848	11284	19390	2800			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	1B	120	Total	C	N	O	P	0	0	0
			2577	1146	476	835	120			
2	2B	120	Total	C	N	O	P	0	0	0
			2575	1146	476	833	120			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	1D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			
3	2D	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	1E	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			
4	2E	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	1F	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			
5	2F	203	Total	C	N	O	S	0	0	1
			1580	1007	297	274	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	1G	181	Total	C	N	O	S	0	0	0
			1423	913	253	253	4			
6	2G	181	Total	C	N	O	S	0	0	0
			1428	913	258	253	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	1H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			
7	2H	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

- Molecule 8 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	1I	146	Total	C	N	O	S	0	0	0
			1097	701	191	204	1			
8	2I	146	Total	C	N	O	S	0	0	0
			1064	681	186	196	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	1N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			
9	2N	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			

- Molecule 10 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	1O	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	2O	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	1P	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			
11	2P	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	1Q	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
12	2Q	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	1R	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
13	2R	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	1S	110	Total	C	N	O	0	0	0
			873	550	174	149			
14	2S	110	Total	C	N	O	0	0	0
			870	549	173	148			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	1T	131	Total	C	N	O	S	0	0	0
			1091	680	225	185	1			
15	2T	131	Total	C	N	O	S	0	0	0
			1083	675	224	183	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	1U	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			
16	2U	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	1V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			
17	2V	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	1W	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			
18	2W	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	1X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			
19	2X	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

- Molecule 20 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	1Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			
20	2Y	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	1Z	154	Total	C	N	O	S	0	0	0
			1240	795	222	220	3			
21	2Z	160	Total	C	N	O	S	0	0	0
			1271	814	228	227	2			

- Molecule 22 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	10	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			
22	20	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			

- Molecule 23 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	11	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			
23	21	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			

- Molecule 24 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	12	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			
24	22	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
25	13	59	Total	C	N	O	0	0	0
			469	298	90	81			
25	23	59	Total	C	N	O	0	0	0
			464	296	90	78			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	14	69	Total	C	N	O	S	0	0	0
			552	349	99	99	5			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	24	69	Total	C	N	O	S	0	0	0
			532	339	97	91	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	15	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			
27	25	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	16	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
28	26	53	Total	C	N	O	S	0	0	0
			449	279	91	75	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	17	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
29	27	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	18	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			
30	28	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	19	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
31	29	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 32 is a RNA chain called 16S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	1a	1500	Total	C	N	O	P	0	0	0
			32246	14358	5975	10413	1500			
32	2a	1503	Total	C	N	O	P	0	0	0
			32327	14396	5990	10438	1503			

- Molecule 33 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	1b	231	Total	C	N	O	S	0	0	0
			1846	1179	331	331	5			
33	2b	231	Total	C	N	O	S	0	0	0
			1825	1167	326	327	5			

- Molecule 34 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	1c	206	Total	C	N	O	S	0	0	0
			1548	973	301	273	1			
34	2c	206	Total	C	N	O	S	0	0	0
			1542	968	300	273	1			

- Molecule 35 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	1d	208	Total	C	N	O	S	0	0	0
			1655	1038	326	284	7			
35	2d	208	Total	C	N	O	S	0	0	0
			1674	1050	333	284	7			

- Molecule 36 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1e	148	Total	C	N	O	S	0	0	0
			1129	714	213	198	4			
36	2e	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			

- Molecule 37 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	1f	100	Total	C	N	O	S	0	0	0
			810	514	144	149	3			
37	2f	100	Total	C	N	O	S	0	0	0
			816	516	146	151	3			

- Molecule 38 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	1g	155	Total	C	N	O	S	0	0	0
			1231	766	243	216	6			
38	2g	155	Total	C	N	O	S	0	0	0
			1235	769	244	216	6			

- Molecule 39 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	1h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			
39	2h	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			

- Molecule 40 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	1i	127	Total	C	N	O	0	0	0
			983	623	193	167			
40	2i	127	Total	C	N	O	0	0	0
			978	619	190	169			

- Molecule 41 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
41	1j	97	Total	C	N	O	0	0	0
			709	440	138	131			
41	2j	96	Total	C	N	O	0	0	0
			714	445	138	131			

- Molecule 42 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	1k	114	Total	C	N	O	S	0	0	0
			829	516	155	155	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	2k	114	Total	C	N	O	S	0	0	0
			833	519	156	155	3			

- Molecule 43 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	1l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			
43	2l	122	Total	C	N	O	S	0	0	0
			932	586	185	159	2			

- Molecule 44 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	1m	123	Total	C	N	O	S	0	0	0
			958	592	198	166	2			
44	2m	122	Total	C	N	O	S	0	0	0
			950	586	197	165	2			

- Molecule 45 is a protein called 30S ribosomal protein S14 type Z.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	1n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
45	2n	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 46 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	1o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			
46	2o	88	Total	C	N	O	S	0	0	0
			728	456	144	126	2			

- Molecule 47 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	1p	82	Total	C	N	O	S	0	0	0
			681	433	134	113	1			
47	2p	82	Total	C	N	O	S	0	0	0
			677	430	133	113	1			

- Molecule 48 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	1q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
48	2q	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 49 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	1r	68	Total	C	N	O		0	0	0
			555	355	108	92				
49	2r	68	Total	C	N	O		0	0	0
			555	355	108	92				

- Molecule 50 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	1s	83	Total	C	N	O	S	0	0	0
			652	417	120	113	2			
50	2s	83	Total	C	N	O	S	0	0	0
			646	412	119	113	2			

- Molecule 51 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	1t	96	Total	C	N	O	S	0	0	0
			728	446	156	124	2			
51	2t	96	Total	C	N	O	S	0	0	0
			727	446	155	124	2			

- Molecule 52 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
52	1u	23	Total	C	N	O	0	0	0
			199	122	48	29			
52	2u	23	Total	C	N	O	0	0	0
			199	122	48	29			

- Molecule 53 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	1v	13	Total	C	N	O	P	0	0	0
			277	125	50	89	13			
53	2v	8	Total	C	N	O	P	0	0	0
			167	75	25	59	8			

- Molecule 54 is a RNA chain called A-site and E-site tRNAs.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	1w	71	Total	C	N	O	P	S	0	0
			1530	685	274	498	71	2		
54	1y	74	Total	C	N	O	P	S	0	0
			1585	707	285	518	74	1		
54	2w	69	Total	C	N	O	P	S	0	0
			1482	662	267	482	69	2		
54	2y	73	Total	C	N	O	P	S	0	0
			1565	698	283	510	73	1		

- Molecule 55 is a RNA chain called P-site tRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	1x	76	Total	C	N	O	P	S	0	0
			1625	725	294	529	76	1		
55	2x	76	Total	C	N	O	P	S	0	0
			1625	725	294	529	76	1		

- Molecule 56 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	1A	680	Total	Mg	0	0
			680	680		
56	1a	238	Total	Mg	0	0
			238	238		
56	2A	351	Total	Mg	0	0
			351	351		
56	2a	183	Total	Mg	0	0
			183	183		

- Molecule 57 is ZINC ION (CCD ID: ZN) (formula: Zn).

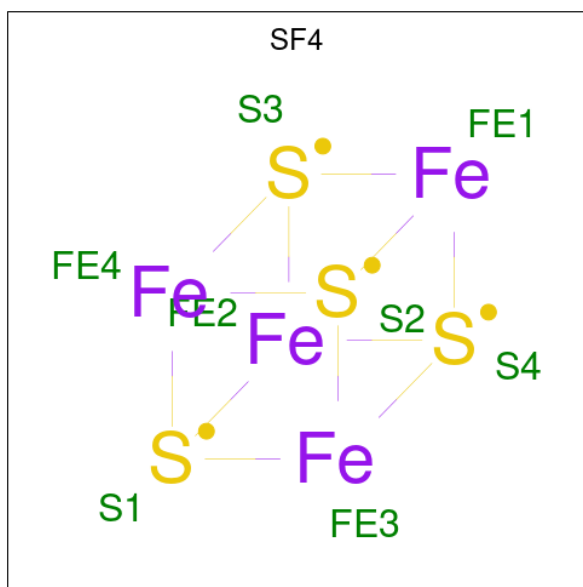
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	1Y	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
57	14	1	Total	Zn	0	0
			1	1		
57	15	1	Total	Zn	0	0
			1	1		
57	16	1	Total	Zn	0	0
			1	1		
57	19	1	Total	Zn	0	0
			1	1		
57	1n	1	Total	Zn	0	0
			1	1		
57	2Y	1	Total	Zn	0	0
			1	1		
57	24	1	Total	Zn	0	0
			1	1		
57	25	1	Total	Zn	0	0
			1	1		
57	26	1	Total	Zn	0	0
			1	1		
57	29	1	Total	Zn	0	0
			1	1		
57	2n	1	Total	Zn	0	0
			1	1		

- Molecule 58 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe_4S_4).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
58	1d	1	Total 8	Fe 4	S 4	0	0
58	2d	1	Total 8	Fe 4	S 4	0	0

- Molecule 59 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	1A	585	Total 585	O 585	0	0
59	1a	181	Total 181	O 181	0	0
59	2A	234	Total 234	O 234	0	0
59	2a	167	Total 167	O 167	0	0

MolProbity failed to run properly - this section is therefore empty.

3 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	208.73Å 445.10Å 613.63Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	360.30 – 2.95 360.30 – 2.95	Depositor EDS
% Data completeness (in resolution range)	99.7 (360.30-2.95) 99.7 (360.30-2.95)	Depositor EDS
R_{merge}	0.21	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.19 (at 2.96Å)	Xtriage
Refinement program	PHENIX 1.8.2	Depositor
R, R_{free}	0.238 , 0.292 0.241 , 0.294	Depositor DCC
R_{free} test set	59210 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	104.3	Xtriage
Anisotropy	0.110	Xtriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.34 , 111.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.36$, $\langle L^2 \rangle = 0.19$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o, F_c correlation	0.89	EDS
Total number of atoms	295398	wwPDB-VP
Average B, all atoms (Å ²)	95.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.48% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

4 Model quality [i](#)

4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3 Torsion angles [i](#)

4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

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

86 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	$\# Z > 2$
53	PSU	2v	19	54,56,53	18,21,22	1.40	2 (11%)	21,30,33	1.97	3 (14%)
1	PSU	2A	1917	1	18,21,22	1.40	2 (11%)	21,30,33	2.07	4 (19%)
32	7MG	2a	527	32	23,26,27	1.34	3 (13%)	27,39,42	2.62	6 (22%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	5MC	2A	1962	1	19,22,23	1.60	3 (15%)	26,32,35	1.18	2 (7%)
1	OMG	1A	2251	56,1,55	23,26,27	1.19	3 (13%)	32,38,41	2.03	6 (18%)
54	7MG	1w	46	54	23,26,27	1.32	3 (13%)	27,39,42	2.65	7 (25%)
32	PSU	2a	516	32	18,21,22	1.35	2 (11%)	21,30,33	1.94	4 (19%)
32	5MC	2a	1400	32	19,22,23	1.71	2 (10%)	26,32,35	1.45	6 (23%)
32	7MG	1a	527	56,32	23,26,27	1.33	3 (13%)	27,39,42	2.62	7 (25%)
32	5MC	2a	1404	32	19,22,23	1.59	2 (10%)	26,32,35	1.18	3 (11%)
1	2MA	1A	2503	56,1	22,25,26	1.49	4 (18%)	32,37,40	2.30	9 (28%)
55	PSU	1x	55	55	18,21,22	1.35	2 (11%)	21,30,33	2.14	4 (19%)
55	PSU	2x	55	55	18,21,22	1.36	2 (11%)	21,30,33	2.02	4 (19%)
54	MIA	2y	37	54,32	21,24,32	1.62	4 (19%)	30,35,47	2.00	7 (23%)
43	0TD	2l	92	43	8,9,10	4.48	1 (12%)	6,11,13	8.22	2 (33%)
32	MA6	1a	1518	32	23,26,27	1.54	4 (17%)	33,38,41	2.32	14 (42%)
1	PSU	1A	1911	1	18,21,22	1.37	3 (16%)	21,30,33	2.09	4 (19%)
32	4OC	1a	1402	32	20,23,24	0.74	0	25,32,35	0.93	1 (4%)
55	4SU	1x	8	55,56	18,21,22	2.09	4 (22%)	25,30,33	1.66	5 (20%)
55	4SU	2x	8	55,56	18,21,22	2.02	6 (33%)	25,30,33	1.75	6 (24%)
1	PSU	1A	1917	1	18,21,22	1.38	2 (11%)	21,30,33	2.05	3 (14%)
1	5MC	2A	1942	1	19,22,23	1.61	3 (15%)	26,32,35	1.21	2 (7%)
1	4OC	2A	1920	1	19,22,24	0.79	0	25,31,35	0.90	1 (4%)
54	7MG	2y	46	54	23,26,27	1.40	3 (13%)	27,39,42	2.73	6 (22%)
54	PSU	1y	55	54	18,21,22	1.37	2 (11%)	21,30,33	2.10	4 (19%)
54	PSU	1y	32	54	18,21,22	1.34	2 (11%)	21,30,33	2.01	4 (19%)
54	PSU	2w	32	54	18,21,22	1.36	2 (11%)	21,30,33	2.00	3 (14%)
32	5MC	1a	1404	32	19,22,23	1.70	3 (15%)	26,32,35	1.13	2 (7%)
32	5MC	2a	1407	56,32	19,22,23	1.65	3 (15%)	26,32,35	1.13	3 (11%)
54	PSU	1w	39	54	18,21,22	1.26	1 (5%)	21,30,33	2.28	4 (19%)
54	PSU	2y	55	54	18,21,22	1.37	3 (16%)	21,30,33	1.96	3 (14%)
32	5MC	1a	1400	32	19,22,23	1.61	3 (15%)	26,32,35	1.10	2 (7%)
54	4SU	2y	8	54,56	18,21,22	1.76	4 (22%)	25,30,33	2.38	6 (24%)
1	2MU	2A	2552	56,1	19,22,24	1.26	4 (21%)	25,31,36	1.89	6 (24%)
1	2MA	2A	2503	1	22,25,26	1.46	5 (22%)	32,37,40	2.24	9 (28%)
32	2MG	1a	1207	32	23,26,27	1.28	4 (17%)	33,38,41	2.11	5 (15%)
32	2MG	2a	1207	56,32	23,26,27	1.26	4 (17%)	33,38,41	2.13	5 (15%)
32	UR3	1a	1498	32	19,22,23	1.03	1 (5%)	26,32,35	1.77	4 (15%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
32	UR3	2a	1498	32	19,22,23	1.05	2 (10%)	26,32,35	1.78	3 (11%)
54	5MU	1y	54	54	19,22,23	1.37	5 (26%)	27,32,35	2.18	6 (22%)
32	5MC	2a	967	32	19,22,23	1.69	3 (15%)	26,32,35	1.15	3 (11%)
54	PSU	2y	39	54	18,21,22	1.39	2 (11%)	21,30,33	1.85	4 (19%)
54	5MU	2w	54	54	19,22,23	1.42	6 (31%)	27,32,35	1.89	6 (22%)
54	7MG	2w	46	54	23,26,27	1.34	3 (13%)	27,39,42	2.61	7 (25%)
54	PSU	1w	32	54	18,21,22	1.37	2 (11%)	21,30,33	2.02	3 (14%)
32	5MC	1a	1407	32	19,22,23	1.59	3 (15%)	26,32,35	1.09	2 (7%)
32	4OC	2a	1402	56,32	20,23,24	0.77	0	25,32,35	0.97	0
53	PSU	1v	19	54,53	18,21,22	1.46	3 (16%)	21,30,33	1.60	3 (14%)
54	7MG	1y	46	54	23,26,27	1.35	3 (13%)	27,39,42	2.75	6 (22%)
43	0TD	1l	92	43	8,9,10	4.46	1 (12%)	6,11,13	7.25	2 (33%)
1	5MU	2A	1939	1	19,22,23	1.39	5 (26%)	27,32,35	2.20	6 (22%)
1	PSU	2A	2605	1	18,21,22	1.35	2 (11%)	21,30,33	2.04	4 (19%)
1	5MC	1A	1962	1	19,22,23	1.67	3 (15%)	26,32,35	1.12	2 (7%)
55	5MC	1x	32	55	19,22,23	1.67	3 (15%)	26,32,35	1.14	3 (11%)
1	5MU	2A	1915	1	19,22,23	1.46	6 (31%)	27,32,35	2.05	7 (25%)
1	OMG	2A	2251	55,1	23,26,27	1.21	3 (13%)	32,38,41	2.03	6 (18%)
55	5MU	2x	54	55	19,22,23	1.39	5 (26%)	27,32,35	2.13	6 (22%)
54	PSU	2w	39	54	18,21,22	1.29	2 (11%)	21,30,33	2.25	5 (23%)
54	5MU	2y	54	54	19,22,23	1.44	5 (26%)	27,32,35	2.05	5 (18%)
32	PSU	1a	516	32	18,21,22	1.38	2 (11%)	21,30,33	1.90	3 (14%)
54	PSU	2y	32	54	18,21,22	1.37	2 (11%)	21,30,33	2.00	4 (19%)
55	5MU	1x	54	55	19,22,23	1.37	5 (26%)	27,32,35	2.02	7 (25%)
1	PSU	2A	1911	1	18,21,22	1.36	2 (11%)	21,30,33	2.01	4 (19%)
1	PSU	1A	2605	1	18,21,22	1.36	2 (11%)	21,30,33	1.98	4 (19%)
54	PSU	1w	55	54	18,21,22	1.44	2 (11%)	21,30,33	2.09	3 (14%)
1	2MU	1A	2552	56,1	19,22,24	1.28	3 (15%)	25,31,36	1.95	6 (24%)
32	5MC	1a	967	32	19,22,23	1.57	3 (15%)	26,32,35	1.11	2 (7%)
54	PSU	1y	39	54	18,21,22	1.32	2 (11%)	21,30,33	2.14	3 (14%)
54	PSU	2w	55	54	18,21,22	1.40	2 (11%)	21,30,33	2.08	3 (14%)
32	M2G	2a	966	32	24,27,28	1.32	4 (16%)	33,40,43	1.85	6 (18%)
1	5MU	1A	1939	1	19,22,23	1.44	5 (26%)	27,32,35	2.20	6 (22%)
32	M2G	1a	966	32	24,27,28	1.30	4 (16%)	33,40,43	1.87	6 (18%)
1	5MU	1A	1915	1	19,22,23	1.39	6 (31%)	27,32,35	2.05	7 (25%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
54	4SU	1w	8	54	18,21,22	1.79	4 (22%)	25,30,33	2.18	5 (20%)
54	MIA	2w	37	54	24,27,32	2.13	5 (20%)	32,39,47	2.46	11 (34%)
54	5MU	1w	54	54	19,22,23	1.44	6 (31%)	27,32,35	1.83	9 (33%)
32	MA6	2a	1519	32	23,26,27	1.56	4 (17%)	33,38,41	2.26	12 (36%)
1	5MC	1A	1942	1	19,22,23	1.54	3 (15%)	26,32,35	1.16	3 (11%)
54	4SU	1y	8	54	18,21,22	1.71	4 (22%)	25,30,33	2.18	4 (16%)
1	4OC	1A	1920	1	19,22,24	0.79	0	25,31,35	0.92	1 (4%)
54	4SU	2w	8	54	18,21,22	1.79	5 (27%)	25,30,33	2.13	4 (16%)
55	5MC	2x	32	55	19,22,23	1.74	3 (15%)	26,32,35	1.21	3 (11%)
32	MA6	2a	1518	32	23,26,27	1.55	4 (17%)	33,38,41	2.31	12 (36%)
32	MA6	1a	1519	32	23,26,27	1.57	4 (17%)	33,38,41	2.33	11 (33%)
54	MIA	1y	37	54	21,24,32	1.60	4 (19%)	30,35,47	1.99	7 (23%)
54	MIA	1w	37	54	28,31,32	2.39	6 (21%)	38,44,47	2.77	13 (34%)

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
53	PSU	2v	19	54,56,53	-	2/7/25/26	0/2/2/2
1	PSU	2A	1917	1	-	0/7/25/26	0/2/2/2
32	7MG	2a	527	32	-	3/7/37/38	0/3/3/3
1	5MC	2A	1962	1	-	0/7/25/26	0/2/2/2
1	OMG	1A	2251	56,1,55	-	0/9/27/28	0/3/3/3
54	7MG	1w	46	54	-	0/7/37/38	0/3/3/3
32	PSU	2a	516	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	1400	32	-	5/7/25/26	0/2/2/2
32	7MG	1a	527	56,32	-	3/7/37/38	0/3/3/3
32	5MC	2a	1404	32	-	2/7/25/26	0/2/2/2
1	2MA	1A	2503	56,1	-	1/7/25/26	0/3/3/3
55	PSU	1x	55	55	-	0/7/25/26	0/2/2/2
55	PSU	2x	55	55	-	1/7/25/26	0/2/2/2
54	MIA	2y	37	54,32	-	2/7/25/34	0/3/3/3
43	0TD	2l	92	43	-	2/7/12/14	-
32	MA6	1a	1518	32	-	2/11/29/30	0/3/3/3
1	PSU	1A	1911	1	-	0/7/25/26	0/2/2/2
32	4OC	1a	1402	32	-	1/9/29/30	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
55	4SU	1x	8	55,56	-	0/7/25/26	0/2/2/2
55	4SU	2x	8	55,56	-	1/7/25/26	0/2/2/2
1	PSU	1A	1917	1	-	0/7/25/26	0/2/2/2
1	5MC	2A	1942	1	-	0/7/25/26	0/2/2/2
1	4OC	2A	1920	1	-	0/9/27/30	0/2/2/2
54	7MG	2y	46	54	-	2/7/37/38	0/3/3/3
54	PSU	1y	55	54	-	1/7/25/26	0/2/2/2
54	PSU	1y	32	54	-	2/7/25/26	0/2/2/2
54	PSU	2w	32	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	1404	32	-	0/7/25/26	0/2/2/2
32	5MC	2a	1407	56,32	-	0/7/25/26	0/2/2/2
54	PSU	1w	39	54	-	0/7/25/26	0/2/2/2
54	PSU	2y	55	54	-	4/7/25/26	0/2/2/2
32	5MC	1a	1400	32	-	2/7/25/26	0/2/2/2
54	4SU	2y	8	54,56	-	1/7/25/26	0/2/2/2
1	2MU	2A	2552	56,1	-	0/9/27/28	0/2/2/2
1	2MA	2A	2503	1	-	1/7/25/26	0/3/3/3
32	2MG	1a	1207	32	-	0/9/27/28	0/3/3/3
32	2MG	2a	1207	56,32	-	1/9/27/28	0/3/3/3
32	UR3	1a	1498	32	-	0/7/25/26	0/2/2/2
32	UR3	2a	1498	32	-	0/7/25/26	0/2/2/2
54	5MU	1y	54	54	-	0/7/25/26	0/2/2/2
32	5MC	2a	967	32	-	2/7/25/26	0/2/2/2
54	PSU	2y	39	54	-	0/7/25/26	0/2/2/2
54	5MU	2w	54	54	-	0/7/25/26	0/2/2/2
54	7MG	2w	46	54	-	2/7/37/38	0/3/3/3
54	PSU	1w	32	54	-	0/7/25/26	0/2/2/2
32	5MC	1a	1407	32	-	0/7/25/26	0/2/2/2
32	4OC	2a	1402	56,32	-	2/9/29/30	0/2/2/2
53	PSU	1v	19	54,53	-	3/7/25/26	0/2/2/2
54	7MG	1y	46	54	-	5/7/37/38	0/3/3/3
43	0TD	1l	92	43	-	2/7/12/14	-
1	5MU	2A	1939	1	-	0/7/25/26	0/2/2/2
1	PSU	2A	2605	1	-	0/7/25/26	0/2/2/2
1	5MC	1A	1962	1	-	0/7/25/26	0/2/2/2
55	5MC	1x	32	55	-	0/7/25/26	0/2/2/2
1	5MU	2A	1915	1	-	0/7/25/26	0/2/2/2
1	OMG	2A	2251	55,1	-	0/9/27/28	0/3/3/3
55	5MU	2x	54	55	-	0/7/25/26	0/2/2/2
54	PSU	2w	39	54	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
54	5MU	2y	54	54	-	0/7/25/26	0/2/2/2
32	PSU	1a	516	32	-	0/7/25/26	0/2/2/2
54	PSU	2y	32	54	-	3/7/25/26	0/2/2/2
55	5MU	1x	54	55	-	0/7/25/26	0/2/2/2
1	PSU	2A	1911	1	-	0/7/25/26	0/2/2/2
1	PSU	1A	2605	1	-	0/7/25/26	0/2/2/2
54	PSU	1w	55	54	-	0/7/25/26	0/2/2/2
1	2MU	1A	2552	56,1	-	0/9/27/28	0/2/2/2
32	5MC	1a	967	32	-	2/7/25/26	0/2/2/2
54	PSU	1y	39	54	-	0/7/25/26	0/2/2/2
54	PSU	2w	55	54	-	0/7/25/26	0/2/2/2
32	M2G	2a	966	32	-	0/11/29/30	0/3/3/3
1	5MU	1A	1939	1	-	0/7/25/26	0/2/2/2
32	M2G	1a	966	32	-	0/11/29/30	0/3/3/3
1	5MU	1A	1915	1	-	1/7/25/26	0/2/2/2
54	4SU	1w	8	54	-	0/7/25/26	0/2/2/2
54	MIA	2w	37	54	-	2/11/29/34	0/3/3/3
54	5MU	1w	54	54	-	2/7/25/26	0/2/2/2
32	MA6	2a	1519	32	-	5/11/29/30	0/3/3/3
1	5MC	1A	1942	1	-	0/7/25/26	0/2/2/2
54	4SU	1y	8	54	-	2/7/25/26	0/2/2/2
1	4OC	1A	1920	1	-	0/9/27/30	0/2/2/2
54	4SU	2w	8	54	-	0/7/25/26	0/2/2/2
55	5MC	2x	32	55	-	0/7/25/26	0/2/2/2
32	MA6	2a	1518	32	-	2/11/29/30	0/3/3/3
32	MA6	1a	1519	32	-	4/11/29/30	0/3/3/3
54	MIA	1y	37	54	-	2/7/25/34	0/3/3/3
54	MIA	1w	37	54	-	2/15/33/34	0/3/3/3

All (267) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
43	2l	92	0TD	CB-SB	-12.32	1.69	1.82
43	1l	92	0TD	CB-SB	-12.24	1.69	1.82
54	1w	37	MIA	C2-S10	-7.23	1.69	1.75
54	2w	37	MIA	C2-S10	-7.10	1.69	1.75
54	1w	37	MIA	C13-C14	6.93	1.53	1.32
55	2x	32	5MC	C5-C4	6.32	1.48	1.44
32	1a	1404	5MC	C5-C4	6.16	1.48	1.44
32	2a	967	5MC	C5-C4	6.14	1.48	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	2a	1400	5MC	C5-C4	6.13	1.48	1.44
1	1A	1962	5MC	C5-C4	6.12	1.48	1.44
55	1x	32	5MC	C5-C4	6.02	1.48	1.44
32	2a	1407	5MC	C5-C4	6.02	1.48	1.44
1	2A	1942	5MC	C5-C4	5.76	1.48	1.44
32	1a	1400	5MC	C5-C4	5.74	1.48	1.44
1	2A	1962	5MC	C5-C4	5.72	1.48	1.44
32	1a	967	5MC	C5-C4	5.69	1.48	1.44
32	1a	1407	5MC	C5-C4	5.68	1.48	1.44
32	2a	1404	5MC	C5-C4	5.64	1.48	1.44
1	1A	1942	5MC	C5-C4	5.42	1.48	1.44
54	1y	37	MIA	C5-C4	5.06	1.48	1.39
54	1w	37	MIA	C5-C4	5.03	1.48	1.39
54	2y	37	MIA	C5-C4	4.99	1.48	1.39
54	2w	37	MIA	C5-C4	4.96	1.47	1.39
54	2y	8	4SU	C4-S4	-4.95	1.59	1.68
32	2a	1519	MA6	C5-C4	4.90	1.47	1.39
54	2w	8	4SU	C4-S4	-4.90	1.60	1.68
32	1a	1519	MA6	C5-C4	4.89	1.47	1.39
55	1x	8	4SU	C4-S4	-4.87	1.60	1.68
32	2a	1518	MA6	C5-C4	4.85	1.47	1.39
32	1a	1518	MA6	C5-C4	4.80	1.47	1.39
54	1w	8	4SU	C4-S4	-4.78	1.60	1.68
55	2x	8	4SU	C4-S4	-4.70	1.60	1.68
54	1y	8	4SU	C4-S4	-4.61	1.60	1.68
1	1A	2503	2MA	C5-C4	4.55	1.47	1.39
1	2A	2503	2MA	C5-C4	4.40	1.46	1.39
55	1x	8	4SU	C4-N3	-4.37	1.33	1.37
55	2x	8	4SU	C4-N3	-4.09	1.33	1.37
54	2w	55	PSU	C6-C5	4.04	1.39	1.35
54	1w	55	PSU	C6-C5	4.03	1.39	1.35
53	1v	19	PSU	C6-C5	3.90	1.39	1.35
54	2y	39	PSU	C6-C5	3.88	1.39	1.35
54	1y	55	PSU	C6-C5	3.80	1.39	1.35
54	2y	32	PSU	C6-C5	3.69	1.39	1.35
54	2y	46	7MG	C5-C4	3.61	1.48	1.37
55	2x	55	PSU	C6-C5	3.60	1.39	1.35
54	1w	32	PSU	C6-C5	3.59	1.39	1.35
54	1y	32	PSU	C6-C5	3.57	1.39	1.35
55	1x	55	PSU	C6-C5	3.56	1.39	1.35
54	1y	46	7MG	C5-C4	3.55	1.48	1.37
1	2A	1917	PSU	C6-C5	3.55	1.39	1.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	2605	PSU	C6-C5	3.51	1.39	1.35
54	1y	39	PSU	C6-C5	3.47	1.39	1.35
55	1x	8	4SU	C2-N3	-3.43	1.32	1.38
32	2a	516	PSU	C6-C5	3.42	1.39	1.35
32	1a	516	PSU	C6-C5	3.41	1.39	1.35
54	2w	32	PSU	C6-C5	3.41	1.39	1.35
1	1A	1917	PSU	C6-C5	3.41	1.39	1.35
54	2y	55	PSU	C6-C5	3.40	1.39	1.35
54	2w	39	PSU	C6-C5	3.38	1.39	1.35
54	1w	46	7MG	C5-C4	3.37	1.48	1.37
54	2w	46	7MG	C5-C4	3.36	1.48	1.37
53	2v	19	PSU	C6-C5	3.33	1.39	1.35
1	2A	2605	PSU	C6-C5	3.33	1.39	1.35
55	1x	8	4SU	C5-C4	-3.32	1.38	1.42
32	1a	527	7MG	C5-C4	3.30	1.47	1.37
1	2A	1911	PSU	C6-C5	3.30	1.38	1.35
1	1A	1911	PSU	C6-C5	3.29	1.38	1.35
32	2a	966	M2G	C5-C4	3.26	1.47	1.38
32	2a	1207	2MG	C5-C4	3.26	1.47	1.38
55	2x	8	4SU	C5-C4	-3.25	1.38	1.42
32	2a	527	7MG	C5-C4	3.24	1.47	1.37
54	2w	46	7MG	C4-N9	-3.20	1.33	1.37
1	1A	2251	OMG	C5-C4	3.18	1.47	1.38
54	1w	39	PSU	C6-C5	3.17	1.38	1.35
1	2A	2251	OMG	C5-C4	3.15	1.47	1.38
32	1a	527	7MG	C4-N9	-3.11	1.34	1.37
32	2a	1518	MA6	C5-C6	3.10	1.49	1.41
54	2w	8	4SU	C4-N3	-3.09	1.34	1.37
32	1a	1207	2MG	C5-C4	3.09	1.47	1.38
32	2a	527	7MG	C4-N9	-3.06	1.34	1.37
32	1a	966	M2G	C5-C4	3.06	1.47	1.38
32	2a	1519	MA6	C5-C6	3.06	1.49	1.41
32	1a	966	M2G	C2-N2	3.05	1.40	1.35
32	2a	1404	5MC	C6-C5	3.00	1.39	1.34
32	1a	1519	MA6	C5-C6	2.99	1.49	1.41
32	1a	1518	MA6	C5-C6	2.98	1.49	1.41
54	2w	37	MIA	C5-C6	2.98	1.49	1.41
54	1w	46	7MG	C4-N9	-2.97	1.34	1.37
54	2y	54	5MU	C6-C5	2.96	1.39	1.34
1	1A	2552	2MU	C4-N3	-2.95	1.33	1.38
32	2a	966	M2G	C2-N2	2.95	1.40	1.35
54	2w	54	5MU	C6-C5	2.95	1.39	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2y	37	MIA	C5-C6	2.94	1.49	1.41
53	1v	19	PSU	C4-N3	-2.93	1.33	1.38
55	2x	32	5MC	C6-C5	2.92	1.39	1.34
54	1y	54	5MU	C6-C5	2.91	1.39	1.34
1	2A	1942	5MC	C6-C5	2.91	1.39	1.34
32	1a	1400	5MC	C6-C5	2.90	1.39	1.34
54	1w	37	MIA	C5-C6	2.90	1.48	1.41
1	2A	1915	5MU	C6-C5	2.88	1.39	1.34
54	1w	8	4SU	C5-C4	-2.85	1.39	1.42
55	1x	32	5MC	C6-C5	2.85	1.39	1.34
54	1w	8	4SU	C4-N3	-2.85	1.34	1.37
1	1A	1939	5MU	C6-C5	2.85	1.39	1.34
54	1y	8	4SU	C4-N3	-2.83	1.34	1.37
54	1y	37	MIA	C5-C6	2.83	1.48	1.41
32	1a	1404	5MC	C6-C5	2.81	1.39	1.34
32	2a	1400	5MC	C6-C5	2.79	1.39	1.34
1	1A	1939	5MU	C4-N3	-2.78	1.33	1.38
32	2a	967	5MC	C6-C5	2.77	1.39	1.34
55	2x	54	5MU	C6-C5	2.76	1.39	1.34
1	2A	1962	5MC	C6-C5	2.75	1.39	1.34
54	2y	8	4SU	C4-N3	-2.75	1.34	1.37
32	1a	1407	5MC	C6-C5	2.74	1.39	1.34
1	1A	1915	5MU	C6-C5	2.74	1.39	1.34
1	2A	1939	5MU	C6-C5	2.73	1.39	1.34
1	1A	1911	PSU	C4-N3	-2.71	1.33	1.38
1	1A	1942	5MC	C6-C5	2.71	1.39	1.34
1	2A	2552	2MU	C4-N3	-2.70	1.34	1.38
32	1a	1207	2MG	C6-N1	-2.69	1.33	1.38
1	2A	1911	PSU	C4-N3	-2.68	1.33	1.38
55	1x	54	5MU	C6-C5	2.68	1.39	1.34
1	1A	2503	2MA	C5-C6	2.68	1.48	1.41
32	2a	1407	5MC	C6-C5	2.67	1.39	1.34
1	2A	1917	PSU	C4-N3	-2.67	1.33	1.38
54	2y	54	5MU	C4-N3	-2.67	1.33	1.38
1	2A	1939	5MU	C4-N3	-2.65	1.33	1.38
54	1w	54	5MU	C2-N1	2.65	1.42	1.38
1	2A	1915	5MU	C4-N3	-2.65	1.33	1.38
54	2y	55	PSU	C4-N3	-2.64	1.33	1.38
54	1w	54	5MU	C6-C5	2.64	1.38	1.34
54	1w	54	5MU	C4-N3	-2.64	1.33	1.38
1	2A	2605	PSU	C4-N3	-2.64	1.33	1.38
1	2A	1915	5MU	C4-C5	2.63	1.49	1.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	2w	8	4SU	C5-C4	-2.63	1.39	1.42
54	2y	8	4SU	C5-C4	-2.63	1.39	1.42
1	1A	1962	5MC	C6-C5	2.62	1.38	1.34
54	2y	46	7MG	C6-N1	-2.62	1.33	1.38
32	1a	967	5MC	C6-C5	2.60	1.38	1.34
1	1A	2605	PSU	C4-N3	-2.60	1.34	1.38
55	2x	8	4SU	C2-N1	2.58	1.42	1.38
1	1A	2251	OMG	C6-N1	-2.57	1.34	1.38
54	2y	39	PSU	C4-N3	-2.57	1.34	1.38
1	1A	1915	5MU	C4-N3	-2.56	1.34	1.38
1	1A	1917	PSU	C4-N3	-2.55	1.34	1.38
54	2w	54	5MU	C4-N3	-2.55	1.34	1.38
54	1w	32	PSU	C4-N3	-2.54	1.34	1.38
53	2v	19	PSU	C4-N3	-2.54	1.34	1.38
54	1w	55	PSU	C4-N3	-2.53	1.34	1.38
1	2A	2503	2MA	C5-C6	2.53	1.48	1.41
54	2w	32	PSU	C4-N3	-2.52	1.34	1.38
54	1y	32	PSU	C4-N3	-2.51	1.34	1.38
1	2A	2251	OMG	C6-N1	-2.50	1.34	1.38
54	2y	54	5MU	C2-N1	2.50	1.42	1.38
55	2x	55	PSU	C4-N3	-2.50	1.34	1.38
32	2a	516	PSU	C4-N3	-2.50	1.34	1.38
55	2x	54	5MU	C4-N3	-2.49	1.34	1.38
54	1y	54	5MU	C4-N3	-2.47	1.34	1.38
32	2a	966	M2G	C6-N1	-2.46	1.34	1.38
54	1w	8	4SU	C2-N1	2.46	1.42	1.38
32	1a	516	PSU	C4-N3	-2.46	1.34	1.38
55	2x	54	5MU	C2-N1	2.45	1.42	1.38
55	1x	55	PSU	C4-N3	-2.45	1.34	1.38
55	2x	8	4SU	C2-N3	-2.44	1.33	1.38
1	1A	1939	5MU	C6-N1	-2.43	1.33	1.38
54	1y	46	7MG	C6-N1	-2.42	1.34	1.38
54	2y	32	PSU	C4-N3	-2.41	1.34	1.38
32	1a	966	M2G	C6-N1	-2.40	1.34	1.38
1	1A	1915	5MU	C4-C5	2.40	1.48	1.44
1	2A	1915	5MU	C2-N1	2.39	1.42	1.38
55	2x	8	4SU	O2-C2	2.39	1.27	1.23
1	1A	2503	2MA	C5-N7	-2.38	1.34	1.39
55	1x	54	5MU	C4-C5	2.38	1.48	1.44
55	2x	54	5MU	C4-C5	2.38	1.48	1.44
54	1y	54	5MU	C4-C5	2.37	1.48	1.44
55	1x	54	5MU	C4-N3	-2.37	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1A	1939	5MU	C4-C5	2.37	1.48	1.44
54	2w	54	5MU	C4-C5	2.37	1.48	1.44
54	1w	37	MIA	C5-N7	-2.37	1.34	1.39
1	2A	1939	5MU	C6-N1	-2.36	1.34	1.38
54	2y	37	MIA	C8-N7	2.36	1.36	1.31
32	2a	527	7MG	C6-N1	-2.35	1.34	1.38
1	2A	2503	2MA	C8-N7	2.35	1.36	1.31
54	1y	37	MIA	C8-N7	2.35	1.36	1.31
1	1A	1939	5MU	C2-N3	-2.34	1.33	1.38
32	2a	1498	UR3	C2-N1	2.34	1.41	1.38
54	1y	55	PSU	C4-N3	-2.34	1.34	1.38
32	1a	1519	MA6	C5-N7	-2.33	1.34	1.39
54	2w	37	MIA	C8-N7	2.32	1.36	1.31
54	2w	55	PSU	C4-N3	-2.32	1.34	1.38
32	2a	1518	MA6	C8-N7	2.31	1.36	1.31
1	2A	2503	2MA	C5-N7	-2.30	1.34	1.39
1	2A	2251	OMG	C5-N7	-2.30	1.34	1.39
55	1x	32	5MC	C6-N1	-2.30	1.34	1.38
32	1a	1518	MA6	C8-N7	2.30	1.36	1.31
54	1y	8	4SU	C5-C4	-2.29	1.39	1.42
1	2A	1939	5MU	C4-C5	2.29	1.48	1.44
32	2a	1207	2MG	C6-N1	-2.29	1.34	1.38
1	1A	2552	2MU	C5-C4	2.29	1.48	1.43
54	2y	46	7MG	C8-N9	2.29	1.47	1.45
1	1A	1962	5MC	C6-N1	-2.28	1.34	1.38
1	2A	1962	5MC	C6-N1	-2.27	1.34	1.38
1	2A	2552	2MU	C5-C4	2.27	1.48	1.43
32	1a	1498	UR3	C2-N1	2.26	1.41	1.38
1	1A	1942	5MC	C6-N1	-2.26	1.34	1.38
54	2y	54	5MU	C4-C5	2.26	1.48	1.44
54	1w	37	MIA	C8-N7	2.25	1.36	1.31
54	1y	39	PSU	C4-N3	-2.24	1.34	1.38
32	1a	527	7MG	C6-N1	-2.24	1.34	1.38
54	1y	8	4SU	C2-N1	2.24	1.42	1.38
1	1A	1915	5MU	C2-N1	2.23	1.42	1.38
54	2y	37	MIA	C5-N7	-2.23	1.35	1.39
1	1A	2503	2MA	C8-N7	2.23	1.36	1.31
55	1x	54	5MU	C2-N1	2.23	1.41	1.38
32	2a	1519	MA6	C5-N7	-2.22	1.35	1.39
54	2w	54	5MU	C2-N3	-2.21	1.34	1.38
32	2a	1519	MA6	C8-N7	2.21	1.35	1.31
32	1a	1404	5MC	C6-N1	-2.20	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
32	1a	967	5MC	C6-N1	-2.20	1.34	1.38
54	2w	37	MIA	C5-N7	-2.19	1.35	1.39
32	2a	967	5MC	C6-N1	-2.19	1.34	1.38
1	2A	1915	5MU	C6-N1	-2.18	1.34	1.38
54	1w	54	5MU	C2-N3	-2.18	1.34	1.38
54	1w	54	5MU	C4-C5	2.17	1.48	1.44
54	1y	46	7MG	C8-N9	2.17	1.47	1.45
32	1a	1207	2MG	C2-N3	2.16	1.36	1.32
1	2A	1939	5MU	C2-N3	-2.16	1.34	1.38
53	1v	19	PSU	C2-N3	-2.16	1.33	1.37
32	2a	1207	2MG	C5-N7	-2.15	1.34	1.39
54	1y	37	MIA	C5-N7	-2.15	1.35	1.39
32	2a	1407	5MC	C6-N1	-2.14	1.34	1.38
1	2A	2503	2MA	C4-N9	-2.14	1.33	1.37
32	1a	1207	2MG	C5-N7	-2.13	1.34	1.39
32	2a	1207	2MG	C2-N3	2.13	1.36	1.32
55	2x	32	5MC	C6-N1	-2.13	1.34	1.38
54	1y	54	5MU	C6-N1	-2.13	1.34	1.38
32	1a	1407	5MC	C6-N1	-2.12	1.34	1.38
54	2y	54	5MU	C2-N3	-2.12	1.34	1.38
32	1a	1400	5MC	C6-N1	-2.12	1.34	1.38
54	2w	39	PSU	C4-C5	2.12	1.50	1.44
1	1A	2552	2MU	C2-N3	-2.11	1.34	1.38
54	2y	8	4SU	C2-N1	2.11	1.41	1.38
54	2w	54	5MU	C2-N1	2.10	1.41	1.38
1	2A	1942	5MC	C6-N1	-2.09	1.34	1.38
1	1A	1915	5MU	C6-N1	-2.09	1.34	1.38
1	1A	2251	OMG	C5-N7	-2.08	1.34	1.39
54	2w	54	5MU	C6-N1	-2.08	1.34	1.38
1	2A	2552	2MU	C2-N1	2.07	1.41	1.38
54	2w	8	4SU	C2-N1	2.07	1.41	1.38
32	2a	966	M2G	C5-N7	-2.07	1.34	1.39
1	1A	1911	PSU	C2-N3	-2.06	1.34	1.37
32	2a	1518	MA6	C5-N7	-2.06	1.35	1.39
32	2a	1498	UR3	C6-C5	2.06	1.39	1.35
55	1x	54	5MU	C6-N1	-2.06	1.34	1.38
54	2w	46	7MG	C6-N1	-2.05	1.35	1.38
54	2w	8	4SU	C2-N3	-2.05	1.34	1.38
54	1y	54	5MU	C2-N1	2.04	1.41	1.38
54	1w	46	7MG	C6-N1	-2.03	1.35	1.38
32	1a	1518	MA6	C5-N7	-2.03	1.35	1.39
55	2x	54	5MU	C6-N1	-2.02	1.34	1.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	1w	54	5MU	C6-N1	-2.02	1.34	1.38
1	2A	2552	2MU	C2-N3	-2.01	1.34	1.38
32	1a	1519	MA6	C8-N7	2.01	1.35	1.31
32	1a	966	M2G	C5-N7	-2.01	1.35	1.39
1	1A	1915	5MU	C2-N3	-2.01	1.34	1.38
54	2y	55	PSU	C2-N3	-2.01	1.34	1.37
1	2A	1915	5MU	C2-N3	-2.00	1.34	1.38

All (424) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	2l	92	0TD	CSB-SB-CB	-19.93	66.54	102.36
43	1l	92	0TD	CSB-SB-CB	-17.51	70.90	102.36
54	2y	46	7MG	N9-C4-N3	9.94	140.03	125.46
54	1y	46	7MG	N9-C4-N3	9.92	139.99	125.46
54	1w	46	7MG	N9-C4-N3	9.05	138.72	125.46
32	1a	527	7MG	N9-C4-N3	8.92	138.53	125.46
32	2a	527	7MG	N9-C4-N3	8.89	138.49	125.46
54	2w	46	7MG	N9-C4-N3	8.67	138.16	125.46
54	2w	37	MIA	C5-C4-N3	-8.44	118.29	127.18
54	1w	37	MIA	C5-C4-N3	-8.42	118.31	127.18
54	1w	37	MIA	C12-C13-C14	-8.38	111.96	127.01
1	1A	2503	2MA	C5-C4-N3	-8.02	118.73	127.18
1	2A	2503	2MA	C5-C4-N3	-7.65	119.12	127.18
54	2y	8	4SU	C4-N3-C2	-7.14	120.47	127.31
32	2a	1498	UR3	C4-N3-C2	-7.00	118.94	124.58
32	2a	1207	2MG	C2-N3-C4	7.00	120.75	112.00
32	1a	1498	UR3	C4-N3-C2	-6.94	119.00	124.58
32	1a	1207	2MG	C2-N3-C4	6.90	120.63	112.00
54	1w	39	PSU	N1-C2-N3	6.74	122.28	115.17
54	1y	8	4SU	C4-N3-C2	-6.68	120.91	127.31
1	2A	1917	PSU	N1-C2-N3	6.62	122.15	115.17
54	1w	37	MIA	N3-C4-N9	6.58	135.35	126.99
54	2w	39	PSU	N1-C2-N3	6.58	122.11	115.17
54	1y	39	PSU	N1-C2-N3	6.57	122.09	115.17
55	1x	55	PSU	N1-C2-N3	6.56	122.09	115.17
1	1A	2251	OMG	C5-C4-N3	-6.55	117.97	128.39
54	2w	37	MIA	N3-C4-N9	6.53	135.28	126.99
1	2A	2251	OMG	C5-C4-N3	-6.52	118.01	128.39
54	1y	55	PSU	N1-C2-N3	6.46	121.98	115.17
1	1A	1911	PSU	N1-C2-N3	6.41	121.92	115.17
54	2w	55	PSU	N1-C2-N3	6.40	121.92	115.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2503	2MA	N3-C4-N9	6.39	135.10	126.99
1	1A	1917	PSU	N1-C2-N3	6.36	121.87	115.17
55	2x	55	PSU	N1-C2-N3	6.31	121.83	115.17
54	1w	32	PSU	N1-C2-N3	6.31	121.82	115.17
1	2A	1911	PSU	N1-C2-N3	6.30	121.82	115.17
54	1w	55	PSU	N1-C2-N3	6.30	121.81	115.17
54	2w	8	4SU	C4-N3-C2	-6.29	121.28	127.31
54	2w	32	PSU	N1-C2-N3	6.28	121.80	115.17
54	1y	32	PSU	N1-C2-N3	6.23	121.74	115.17
53	2v	19	PSU	N1-C2-N3	6.18	121.69	115.17
54	2y	32	PSU	N1-C2-N3	6.18	121.68	115.17
1	2A	2605	PSU	N1-C2-N3	6.15	121.66	115.17
32	2a	966	M2G	C5-C4-N3	-6.15	118.61	128.39
54	2y	55	PSU	N1-C2-N3	6.11	121.62	115.17
54	2y	8	4SU	C5-C4-N3	6.11	120.43	114.75
32	2a	516	PSU	N1-C2-N3	6.05	121.55	115.17
32	1a	1207	2MG	C5-C4-N3	-6.04	118.78	128.39
32	2a	1207	2MG	C5-C4-N3	-6.03	118.80	128.39
54	1w	8	4SU	C4-N3-C2	-5.96	121.60	127.31
1	2A	2503	2MA	N3-C4-N9	5.96	134.55	126.99
32	1a	966	M2G	C5-C4-N3	-5.96	118.91	128.39
32	1a	516	PSU	N1-C2-N3	5.95	121.45	115.17
54	1y	37	MIA	C5-C4-N3	-5.90	118.59	126.72
54	2y	46	7MG	C5-C4-N3	-5.90	117.06	128.13
54	2y	37	MIA	C5-C4-N3	-5.88	118.61	126.72
1	1A	2605	PSU	N1-C2-N3	5.87	121.36	115.17
32	1a	1519	MA6	C5-C4-N3	-5.80	118.73	126.72
54	1y	46	7MG	C5-C4-N3	-5.79	117.27	128.13
54	2y	39	PSU	N1-C2-N3	5.77	121.25	115.17
54	2w	8	4SU	C5-C4-N3	5.67	120.03	114.75
32	2a	1518	MA6	C5-C4-N3	-5.61	119.00	126.72
54	2w	46	7MG	N9-C8-N7	-5.60	95.44	103.37
32	2a	527	7MG	N9-C8-N7	-5.55	95.51	103.37
32	2a	1519	MA6	C5-C4-N3	-5.54	119.08	126.72
32	1a	527	7MG	C5-C4-N3	-5.54	117.73	128.13
54	1w	8	4SU	C5-C4-N3	5.51	119.88	114.75
1	1A	1939	5MU	C4-N3-C2	-5.42	120.23	127.34
1	2A	1939	5MU	C4-N3-C2	-5.42	120.24	127.34
1	1A	2552	2MU	N3-C2-N1	5.41	121.93	114.89
1	1A	1939	5MU	N3-C2-N1	5.41	121.93	114.89
54	1y	54	5MU	C4-N3-C2	-5.39	120.27	127.34
54	1w	46	7MG	C5-C4-N3	-5.38	118.03	128.13

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	54	5MU	N3-C2-N1	5.38	121.89	114.89
54	1y	8	4SU	C5-C4-N3	5.36	119.74	114.75
32	2a	527	7MG	C5-C4-N3	-5.35	118.09	128.13
32	1a	1518	MA6	C5-C4-N3	-5.33	119.38	126.72
1	2A	2552	2MU	N3-C2-N1	5.29	121.78	114.89
54	1w	46	7MG	N9-C8-N7	-5.28	95.90	103.37
32	1a	527	7MG	N9-C8-N7	-5.24	95.95	103.37
1	1A	2251	OMG	C2-N3-C4	5.22	121.29	112.30
1	2A	1915	5MU	N3-C2-N1	5.21	121.67	114.89
1	2A	2251	OMG	N9-C4-N3	5.21	136.37	125.95
55	2x	54	5MU	C4-N3-C2	-5.19	120.54	127.34
55	2x	54	5MU	N3-C2-N1	5.17	121.63	114.89
53	1v	19	PSU	N1-C2-N3	5.16	120.61	115.17
1	2A	1939	5MU	N3-C2-N1	5.13	121.57	114.89
54	2w	39	PSU	C4-N3-C2	-5.11	119.33	126.37
1	2A	2251	OMG	C2-N3-C4	5.08	121.04	112.30
55	1x	54	5MU	N3-C2-N1	5.06	121.48	114.89
1	2A	1915	5MU	C4-N3-C2	-5.05	120.72	127.34
54	1w	39	PSU	C4-N3-C2	-5.05	119.41	126.37
1	1A	1915	5MU	N3-C2-N1	4.97	121.36	114.89
1	1A	1915	5MU	C4-N3-C2	-4.96	120.84	127.34
54	2y	54	5MU	N3-C2-N1	4.96	121.34	114.89
54	2w	46	7MG	C5-C4-N3	-4.95	118.83	128.13
54	2y	54	5MU	C4-N3-C2	-4.89	120.93	127.34
54	1y	46	7MG	N9-C8-N7	-4.85	96.51	103.37
1	1A	2251	OMG	N9-C4-N3	4.80	135.55	125.95
54	2y	8	4SU	C5-C4-S4	-4.72	118.91	124.31
55	2x	8	4SU	C1'-N1-C2	4.72	126.06	117.59
1	1A	2552	2MU	C4-N3-C2	-4.71	120.76	126.61
32	2a	966	M2G	N9-C4-N3	4.69	135.34	125.95
54	1y	46	7MG	C2-N3-C4	4.67	120.34	112.30
55	1x	54	5MU	C4-N3-C2	-4.66	121.23	127.34
54	1y	37	MIA	N3-C4-N9	4.66	135.09	127.17
54	2y	46	7MG	C2-N3-C4	4.66	120.32	112.30
54	2w	54	5MU	N3-C2-N1	4.64	120.93	114.89
54	2y	37	MIA	N3-C4-N9	4.64	135.05	127.17
1	2A	2552	2MU	C4-N3-C2	-4.63	120.87	126.61
32	1a	966	M2G	C2-N3-C4	4.62	121.05	112.51
32	1a	1519	MA6	N3-C4-N9	4.58	134.96	127.17
32	1a	527	7MG	C2-N3-C4	4.58	120.19	112.30
32	2a	1518	MA6	C9-N6-C6	-4.55	108.94	120.52
54	2y	54	5MU	C5-C4-N3	4.51	119.24	115.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1939	5MU	C5-C4-N3	4.50	119.24	115.32
54	2y	46	7MG	N9-C8-N7	-4.49	97.02	103.37
54	2w	54	5MU	C4-N3-C2	-4.46	121.49	127.34
32	2a	966	M2G	C2-N3-C4	4.45	120.75	112.51
54	1w	46	7MG	C2-N3-C4	4.44	119.95	112.30
55	1x	8	4SU	C5-C4-N3	4.44	118.88	114.75
32	1a	1518	MA6	C9-N6-C6	-4.44	109.23	120.52
32	2a	527	7MG	C2-N3-C4	4.43	119.93	112.30
32	1a	1518	MA6	C2-N1-C6	4.43	122.64	111.83
54	1w	39	PSU	O2-C2-N1	-4.41	118.24	122.79
54	1w	8	4SU	C5-C4-S4	-4.41	119.27	124.31
32	1a	1207	2MG	N9-C4-N3	4.41	134.76	125.95
54	1y	54	5MU	C5-C4-N3	4.41	119.15	115.32
54	1y	39	PSU	C4-N3-C2	-4.38	120.33	126.37
32	2a	1518	MA6	C2-N1-C6	4.38	122.54	111.83
1	1A	1915	5MU	C5-C4-N3	4.37	119.12	115.32
54	1y	39	PSU	O2-C2-N1	-4.36	118.29	122.79
1	1A	1911	PSU	C4-N3-C2	-4.35	120.38	126.37
1	1A	1939	5MU	C5-C6-N1	-4.34	118.60	123.31
55	2x	54	5MU	C5-C4-N3	4.34	119.09	115.32
32	1a	966	M2G	N9-C4-N3	4.34	134.62	125.95
1	2A	2605	PSU	C4-N3-C2	-4.27	120.48	126.37
1	1A	1939	5MU	C5-C4-N3	4.26	119.02	115.32
32	2a	1207	2MG	N9-C4-N3	4.25	134.45	125.95
32	1a	1519	MA6	C2-N1-C6	4.24	122.19	111.83
32	2a	1519	MA6	C2-N1-C6	4.24	122.19	111.83
54	2w	46	7MG	C2-N3-C4	4.24	119.60	112.30
55	1x	55	PSU	C4-N3-C2	-4.24	120.53	126.37
55	2x	8	4SU	C5-C4-N3	4.23	118.68	114.75
1	2A	1915	5MU	C5-C4-N3	4.22	118.99	115.32
32	2a	1519	MA6	C9-N6-C6	-4.22	109.79	120.52
1	2A	1939	5MU	O4-C4-C5	-4.21	120.10	124.92
32	2a	1518	MA6	C4-C5-N7	-4.20	105.78	110.58
55	2x	54	5MU	O4-C4-C5	-4.19	120.12	124.92
55	2x	55	PSU	C4-N3-C2	-4.15	120.65	126.37
1	2A	1939	5MU	C5-C6-N1	-4.15	118.80	123.31
32	2a	1519	MA6	N3-C4-N9	4.14	134.21	127.17
54	1y	54	5MU	O4-C4-C5	-4.12	120.20	124.92
54	1y	32	PSU	C4-N3-C2	-4.12	120.70	126.37
32	1a	1518	MA6	N3-C4-N9	4.11	134.16	127.17
32	2a	1518	MA6	N3-C4-N9	4.09	134.12	127.17
32	2a	1519	MA6	C4-C5-N7	-4.09	105.91	110.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	8	4SU	N3-C2-N1	4.08	120.21	114.89
54	1y	55	PSU	O2-C2-N1	-4.08	118.59	122.79
1	1A	2605	PSU	C4-N3-C2	-4.07	120.76	126.37
1	2A	1911	PSU	C4-N3-C2	-4.07	120.77	126.37
1	2A	1917	PSU	C4-N3-C2	-4.07	120.77	126.37
55	1x	54	5MU	O4-C4-C5	-4.05	120.28	124.92
1	1A	1917	PSU	C4-N3-C2	-4.05	120.79	126.37
54	1y	55	PSU	C4-N3-C2	-4.04	120.81	126.37
54	2w	55	PSU	O2-C2-N1	-3.99	118.67	122.79
32	1a	1519	MA6	C9-N6-C6	-3.98	110.40	120.52
54	2y	54	5MU	O4-C4-C5	-3.97	120.37	124.92
32	1a	1518	MA6	C4-C5-N7	-3.96	106.05	110.58
54	1w	32	PSU	C4-N3-C2	-3.96	120.91	126.37
54	2y	55	PSU	C4-N3-C2	-3.96	120.91	126.37
54	2w	54	5MU	C5-C4-N3	3.95	118.76	115.32
54	1w	37	MIA	C15-C14-C13	-3.95	110.81	122.66
54	2w	32	PSU	C4-N3-C2	-3.94	120.95	126.37
1	1A	1917	PSU	O2-C2-N1	-3.93	118.74	122.79
54	2y	8	4SU	N3-C2-N1	3.92	120.00	114.89
54	1y	8	4SU	C5-C4-S4	-3.90	119.86	124.31
32	1a	1519	MA6	C4-C5-N7	-3.88	106.15	110.58
55	1x	55	PSU	O2-C2-N1	-3.86	118.81	122.79
54	2w	55	PSU	C4-N3-C2	-3.86	121.06	126.37
54	1w	55	PSU	O2-C2-N1	-3.85	118.82	122.79
54	1w	54	5MU	C5-C4-N3	3.85	118.67	115.32
54	2w	8	4SU	C5-C4-S4	-3.85	119.91	124.31
1	1A	1915	5MU	O4-C4-C5	-3.85	120.52	124.92
32	2a	516	PSU	C4-N3-C2	-3.84	121.08	126.37
54	2y	32	PSU	C4-N3-C2	-3.83	121.09	126.37
54	2w	39	PSU	O2-C2-N1	-3.81	118.86	122.79
54	1w	55	PSU	C4-N3-C2	-3.81	121.12	126.37
54	1w	32	PSU	O2-C2-N1	-3.80	118.86	122.79
54	1w	54	5MU	N3-C2-N1	3.80	119.83	114.89
53	2v	19	PSU	O2-C2-N1	-3.80	118.87	122.79
32	2a	1518	MA6	C2-N3-C4	3.77	121.03	111.83
54	2w	54	5MU	O4-C4-C5	-3.76	120.61	124.92
55	1x	54	5MU	C5-C4-N3	3.74	118.58	115.32
53	2v	19	PSU	C4-N3-C2	-3.74	121.22	126.37
54	1w	37	MIA	C16-C14-C13	-3.73	111.45	122.66
54	2y	32	PSU	O2-C2-N1	-3.70	118.97	122.79
1	1A	1939	5MU	O4-C4-C5	-3.69	120.69	124.92
54	2w	8	4SU	N3-C2-N1	3.69	119.70	114.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1w	54	5MU	C4-N3-C2	-3.69	122.50	127.34
54	1w	54	5MU	O4-C4-C5	-3.69	120.70	124.92
1	2A	1942	5MC	C5-C6-N1	-3.68	119.31	123.31
54	2y	39	PSU	C4-N3-C2	-3.67	121.32	126.37
54	1y	37	MIA	C2-N3-C4	3.66	120.76	111.83
32	2a	1400	5MC	O2-C2-N3	-3.63	116.61	122.33
54	2y	37	MIA	C2-N3-C4	3.62	120.67	111.83
54	2y	37	MIA	C4-C5-N7	-3.60	106.46	110.58
32	1a	516	PSU	C4-N3-C2	-3.58	121.44	126.37
32	1a	1518	MA6	C2-N3-C4	3.57	120.56	111.83
1	2A	1917	PSU	O2-C2-N1	-3.57	119.11	122.79
32	1a	1519	MA6	C2-N3-C4	3.56	120.53	111.83
32	2a	1519	MA6	C2-N3-C4	3.56	120.53	111.83
54	1w	8	4SU	N3-C2-N1	3.56	119.52	114.89
54	2w	37	MIA	C4-C5-N7	-3.55	106.53	110.58
54	1y	54	5MU	C5-C6-N1	-3.54	119.47	123.31
1	1A	1962	5MC	C5-C6-N1	-3.53	119.47	123.31
32	1a	516	PSU	O2-C2-N1	-3.52	119.16	122.79
32	1a	1404	5MC	C5-C6-N1	-3.50	119.51	123.31
54	1w	37	MIA	C4-C5-N7	-3.50	106.58	110.58
54	2w	32	PSU	O2-C2-N1	-3.50	119.18	122.79
1	1A	1911	PSU	O2-C2-N1	-3.50	119.18	122.79
32	1a	1400	5MC	C5-C6-N1	-3.46	119.55	123.31
54	1y	37	MIA	C4-C5-N7	-3.46	106.62	110.58
55	2x	55	PSU	O2-C2-N1	-3.46	119.22	122.79
1	2A	1911	PSU	O2-C2-N1	-3.46	119.22	122.79
32	2a	1518	MA6	N1-C2-N3	-3.45	123.36	128.58
54	2w	37	MIA	C2-N3-C4	3.44	121.31	112.29
32	2a	516	PSU	O2-C2-N1	-3.43	119.25	122.79
32	1a	1518	MA6	N1-C2-N3	-3.42	123.40	128.58
32	1a	966	M2G	C6-C5-N7	3.42	136.52	130.29
1	1A	2503	2MA	C4-C5-N7	-3.39	106.71	110.58
1	2A	2503	2MA	C4-C5-N7	-3.36	106.74	110.58
54	1y	32	PSU	O2-C2-N1	-3.33	119.36	122.79
1	1A	2605	PSU	O2-C2-N1	-3.32	119.36	122.79
32	2a	1207	2MG	C6-C5-N7	3.32	136.33	130.29
32	1a	1498	UR3	C5-C4-N3	3.32	119.41	115.04
54	2y	54	5MU	C5-C6-N1	-3.31	119.72	123.31
32	2a	1498	UR3	C5-C4-N3	3.30	119.39	115.04
1	2A	1915	5MU	O4-C4-C5	-3.29	121.16	124.92
54	1w	37	MIA	C2-N3-C4	3.29	120.90	112.29
54	1y	54	5MU	O2-C2-N1	-3.28	118.53	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
54	1y	37	MIA	N3-C2-N1	-3.28	123.62	128.58
55	2x	54	5MU	C5-C6-N1	-3.27	119.76	123.31
1	1A	1942	5MC	C5-C6-N1	-3.27	119.77	123.31
54	2w	54	5MU	C5-C6-N1	-3.27	119.77	123.31
55	1x	32	5MC	C5-C6-N1	-3.26	119.77	123.31
1	2A	1915	5MU	C5-C6-N1	-3.26	119.77	123.31
32	2a	1404	5MC	C5-C6-N1	-3.24	119.80	123.31
1	2A	2605	PSU	O2-C2-N1	-3.23	119.46	122.79
32	1a	1207	2MG	C6-C5-N7	3.22	136.14	130.29
54	2y	37	MIA	N3-C2-N1	-3.21	123.73	128.58
54	2w	37	MIA	C12-N6-C6	-3.19	119.89	122.85
32	2a	967	5MC	C5-C6-N1	-3.19	119.85	123.31
1	2A	1962	5MC	C5-C6-N1	-3.17	119.87	123.31
32	1a	967	5MC	C5-C6-N1	-3.17	119.87	123.31
55	1x	8	4SU	C1'-N1-C2	3.16	123.26	117.59
1	2A	1939	5MU	O2-C2-N1	-3.15	118.69	122.80
1	1A	1939	5MU	O2-C2-N1	-3.15	118.70	122.80
1	1A	2503	2MA	N6-C6-N1	3.14	121.26	117.03
32	2a	1400	5MC	C5-C4-N3	-3.12	118.55	121.75
55	2x	32	5MC	C5-C6-N1	-3.12	119.92	123.31
1	1A	1915	5MU	C5-C6-N1	-3.11	119.94	123.31
54	1w	37	MIA	C11-S10-C2	-3.10	99.92	102.25
1	2A	2503	2MA	N6-C6-N1	3.08	121.18	117.03
32	1a	1519	MA6	N1-C2-N3	-3.07	123.94	128.58
32	2a	1519	MA6	N1-C2-N3	-3.06	123.95	128.58
54	2w	37	MIA	C6-C5-N7	3.06	135.76	132.43
32	1a	1407	5MC	C5-C6-N1	-3.03	120.02	123.31
54	1w	8	4SU	C1'-N1-C2	3.03	123.03	117.59
1	1A	2552	2MU	O2-C2-N1	-3.02	118.87	122.80
32	2a	1407	5MC	C5-C4-N3	-2.98	118.70	121.75
32	2a	966	M2G	C6-C5-N7	2.98	135.71	130.29
32	1a	1519	MA6	N1-C6-N6	2.98	120.48	116.86
32	1a	1518	MA6	C4-N9-C8	2.96	108.85	105.74
1	1A	2251	OMG	C6-C5-N7	2.95	135.66	130.29
32	2a	1407	5MC	C5-C6-N1	-2.95	120.11	123.31
54	1w	37	MIA	C6-C5-N7	2.94	135.63	132.43
32	1a	1518	MA6	C10-N6-C6	-2.93	113.06	120.52
32	2a	1519	MA6	C10-N6-C6	-2.92	113.08	120.52
1	2A	2552	2MU	C5-C4-N3	2.92	118.88	114.80
1	2A	2503	2MA	C4-N9-C8	2.90	108.78	105.74
1	1A	2552	2MU	C5-C4-N3	2.90	118.86	114.80
1	2A	1942	5MC	C5-C4-N3	-2.89	118.79	121.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	2A	1962	5MC	C5-C4-N3	-2.89	118.79	121.75
32	2a	1400	5MC	C1'-N1-C6	-2.87	116.42	121.15
32	2a	1518	MA6	C5-N7-C8	2.85	107.93	103.45
55	1x	32	5MC	C5-C4-N3	-2.84	118.84	121.75
1	2A	2503	2MA	C2-N1-C6	2.82	122.44	118.10
55	2x	32	5MC	C5-C4-N3	-2.82	118.87	121.75
54	1w	46	7MG	C5-C6-N1	2.81	115.88	110.94
54	1y	46	7MG	C5-C4-N9	-2.80	102.74	106.33
55	2x	8	4SU	C1'-N1-C6	-2.80	114.79	120.78
32	2a	1519	MA6	C5-N7-C8	2.80	107.85	103.45
54	2y	55	PSU	O2-C2-N1	-2.80	119.91	122.79
32	1a	1518	MA6	C5-N7-C8	2.79	107.83	103.45
1	1A	2552	2MU	C2'-C1'-N1	-2.78	108.96	114.24
1	1A	2503	2MA	C4-N9-C8	2.78	108.66	105.74
32	1a	1407	5MC	C5-C4-N3	-2.77	118.91	121.75
54	1w	54	5MU	C1'-N1-C2	2.77	122.56	117.59
55	1x	54	5MU	O2-C2-N1	-2.77	119.19	122.80
32	1a	1519	MA6	C5-N7-C8	2.77	107.80	103.45
1	1A	1942	5MC	C5-C4-N3	-2.76	118.92	121.75
32	1a	1404	5MC	C5-C4-N3	-2.76	118.93	121.75
55	2x	32	5MC	O2-C2-N3	-2.76	117.98	122.33
32	1a	1519	MA6	C10-N6-C6	-2.74	113.54	120.52
32	2a	1404	5MC	C5-C4-N3	-2.74	118.95	121.75
55	2x	54	5MU	O2-C2-N1	-2.74	119.24	122.80
32	1a	527	7MG	C5-C6-N1	2.73	115.74	110.94
32	2a	967	5MC	C5-C4-N3	-2.71	118.97	121.75
54	2y	46	7MG	C5-C4-N9	-2.68	102.90	106.33
1	2A	2552	2MU	O4-C4-C5	-2.68	120.54	125.16
32	2a	1207	2MG	C4-C5-N7	-2.68	106.43	110.67
55	1x	8	4SU	C6-C5-C4	-2.65	117.66	119.95
32	1a	1207	2MG	C4-C5-N7	-2.65	106.47	110.67
32	1a	1400	5MC	C5-C4-N3	-2.64	119.05	121.75
53	1v	19	PSU	C4-N3-C2	-2.64	122.74	126.37
32	2a	527	7MG	C5-C6-N1	2.64	115.58	110.94
1	1A	2503	2MA	C2-N1-C6	2.63	122.14	118.10
1	2A	2552	2MU	O2-C2-N1	-2.63	119.38	122.80
32	1a	1519	MA6	C4-N9-C8	2.62	108.49	105.74
55	1x	8	4SU	O2-C2-N1	2.61	126.19	122.80
54	2w	46	7MG	C5-C4-N9	-2.61	102.99	106.33
54	2w	46	7MG	C5-C6-N1	2.60	115.52	110.94
32	1a	966	M2G	C4-C5-N7	-2.60	106.55	110.67
54	2y	37	MIA	C5-N7-C8	2.60	107.53	103.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1A	2503	2MA	C5-N7-C8	2.58	107.51	103.45
55	1x	8	4SU	O2-C2-N3	-2.57	116.75	121.49
1	2A	2251	OMG	C6-C5-N7	2.57	134.97	130.29
32	2a	1518	MA6	C10-N6-C6	-2.57	113.99	120.52
54	1w	54	5MU	C1'-N1-C6	-2.57	116.93	121.15
54	1w	37	MIA	C5-N7-C8	2.56	107.48	103.45
32	2a	1404	5MC	O2-C2-N3	-2.56	118.30	122.33
1	1A	1962	5MC	C5-C4-N3	-2.55	119.14	121.75
55	2x	8	4SU	C6-C5-C4	-2.54	117.75	119.95
54	2w	37	MIA	C5-N7-C8	2.53	107.43	103.45
1	1A	2552	2MU	O4-C4-C5	-2.52	120.81	125.16
32	1a	967	5MC	C5-C4-N3	-2.52	119.17	121.75
54	1w	37	MIA	C2-N1-C6	2.52	122.33	117.54
1	1A	2251	OMG	C4-C5-N7	-2.52	106.68	110.67
54	1y	46	7MG	C5-C6-N1	2.50	115.34	110.94
1	2A	2503	2MA	C5-N7-C8	2.49	107.36	103.45
54	1w	54	5MU	C5-C6-N1	-2.49	120.61	123.31
54	2y	37	MIA	C4-N9-C8	2.48	108.34	105.74
32	2a	1519	MA6	C4-N9-C8	2.47	108.33	105.74
54	2w	37	MIA	C11-S10-C2	-2.47	100.40	102.25
54	1y	37	MIA	C5-N7-C8	2.46	107.32	103.45
1	1A	1911	PSU	C5-C6-N1	-2.46	118.73	122.14
32	2a	1518	MA6	C4-N9-C8	2.41	108.27	105.74
32	2a	1518	MA6	C6-C5-N7	2.41	137.29	133.43
1	2A	2251	OMG	O6-C6-C5	-2.41	120.16	126.53
54	1w	46	7MG	C5-C4-N9	-2.40	103.26	106.33
32	1a	1518	MA6	C10-N6-C9	-2.40	108.47	116.18
32	1a	1402	4OC	C6-C5-C4	2.40	119.89	117.00
55	1x	54	5MU	C5-C6-N1	-2.39	120.72	123.31
54	2y	39	PSU	O2-C2-N1	-2.39	120.33	122.79
32	2a	966	M2G	C4-C5-N7	-2.38	106.90	110.67
1	1A	1915	5MU	O2-C2-N1	-2.38	119.70	122.80
32	2a	1400	5MC	C1'-N1-C2	2.37	123.67	118.44
54	1y	37	MIA	C4-N9-C8	2.34	108.19	105.74
55	1x	54	5MU	C5M-C5-C4	2.33	121.27	118.78
54	2y	46	7MG	C5-C6-N1	2.30	114.99	110.94
1	2A	2552	2MU	C2'-C1'-N1	-2.29	109.89	114.24
32	2a	1518	MA6	C10-N6-C9	-2.29	108.81	116.18
53	1v	19	PSU	O2-C2-N3	-2.28	117.81	121.86
32	2a	527	7MG	C5-C4-N9	-2.28	103.41	106.33
1	2A	1915	5MU	O2-C2-N1	-2.28	119.83	122.80
55	1x	55	PSU	C5-C6-N1	-2.28	118.98	122.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
32	1a	1518	MA6	N1-C6-N6	2.27	119.62	116.86
55	2x	8	4SU	C5-C4-S4	-2.26	121.73	124.31
54	2w	37	MIA	C2-N1-C6	2.25	121.82	117.54
32	1a	1518	MA6	C6-C5-N7	2.25	137.03	133.43
54	2y	8	4SU	O2-C2-N1	-2.25	119.87	122.80
55	2x	8	4SU	O2-C2-N1	2.24	125.72	122.80
54	2w	39	PSU	C6-C5-C4	-2.24	116.66	118.17
32	1a	1498	UR3	C1'-N1-C2	2.23	120.69	117.04
54	1y	32	PSU	C5-C6-N1	-2.22	119.05	122.14
54	1w	39	PSU	C5-C6-N1	-2.22	119.06	122.14
1	1A	1942	5MC	O2-C2-N3	-2.21	118.84	122.33
1	2A	2503	2MA	N9-C8-N7	-2.21	110.80	113.94
1	2A	2605	PSU	C5-C6-N1	-2.21	119.07	122.14
54	1w	54	5MU	C5M-C5-C4	2.21	121.14	118.78
1	2A	2503	2MA	C6-C5-N7	2.20	136.34	132.09
32	1a	1518	MA6	N9-C8-N7	-2.20	110.81	113.94
54	2w	37	MIA	N3-C2-N1	-2.20	122.98	127.00
1	2A	1915	5MU	C5M-C5-C4	2.20	121.13	118.78
1	1A	2605	PSU	C6-C5-C4	-2.19	116.70	118.17
54	1w	46	7MG	O6-C6-C5	-2.18	122.26	127.62
54	2w	37	MIA	C4-N9-C8	2.18	108.03	105.74
32	2a	1519	MA6	C6-C5-N7	2.17	136.90	133.43
43	1l	92	0TD	OD2-CG-CB	2.17	117.83	113.15
54	1w	37	MIA	N3-C2-N1	-2.16	123.06	127.00
1	1A	1915	5MU	C5M-C5-C4	2.15	121.08	118.78
55	2x	55	PSU	C5-C6-N1	-2.15	119.16	122.14
1	2A	1920	4OC	O2-C2-N3	-2.14	118.95	122.33
54	2w	46	7MG	O6-C6-C5	-2.14	122.37	127.62
54	2y	32	PSU	O4'-C1'-C2'	2.14	108.11	105.15
1	2A	2251	OMG	C4-C5-N7	-2.14	107.28	110.67
32	2a	967	5MC	O2-C2-N3	-2.13	118.97	122.33
1	1A	2251	OMG	O6-C6-C5	-2.12	120.94	126.53
54	1w	37	MIA	C4-N9-C8	2.12	107.96	105.74
1	1A	2503	2MA	N9-C8-N7	-2.10	110.95	113.94
54	1y	55	PSU	O4'-C1'-C2'	2.10	108.06	105.15
32	1a	966	M2G	O6-C6-C5	-2.10	120.99	126.53
32	2a	966	M2G	O6-C6-C5	-2.10	121.00	126.53
32	2a	1400	5MC	C5-C6-N1	-2.10	121.04	123.31
1	1A	2503	2MA	C6-C5-N7	2.09	136.11	132.09
1	2A	1911	PSU	C5-C6-N1	-2.09	119.24	122.14
54	2y	39	PSU	C5-C6-N1	-2.09	119.25	122.14
54	2w	39	PSU	C5-C6-N1	-2.08	119.25	122.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
55	1x	32	5MC	O2-C2-N3	-2.08	119.05	122.33
54	2w	54	5MU	O2-C2-N1	-2.07	120.10	122.80
32	2a	1407	5MC	O2-C2-N3	-2.07	119.07	122.33
1	1A	1920	4OC	O2-C2-N3	-2.06	119.08	122.33
32	2a	516	PSU	O4'-C1'-C2'	2.06	108.00	105.15
32	1a	1498	UR3	C3U-N3-C2	2.05	120.91	117.33
1	2A	1917	PSU	C5-C6-N1	-2.05	119.30	122.14
43	2l	92	0TD	OD2-CG-CB	2.04	117.57	113.15
32	2a	1498	UR3	C3U-N3-C4	2.04	120.70	117.87
54	2y	8	4SU	C1'-N1-C2	2.04	121.26	117.59
32	1a	527	7MG	C5-C4-N9	-2.04	103.72	106.33
32	2a	1400	5MC	O2-C2-N1	2.04	122.89	118.90
32	2a	1519	MA6	N1-C6-N6	2.03	119.33	116.86
32	1a	527	7MG	O6-C6-C5	-2.02	122.67	127.62
54	1w	54	5MU	O2-C2-N3	-2.00	117.80	121.49

There are no chirality outliers.

All (82) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
43	2l	92	0TD	SB-CB-CG-OD2
32	1a	967	5MC	O4'-C4'-C5'-O5'
32	2a	967	5MC	O4'-C4'-C5'-O5'
32	2a	1207	2MG	N3-C2-N2-CM2
32	2a	1400	5MC	O4'-C1'-N1-C2
32	2a	1400	5MC	O4'-C1'-N1-C6
32	2a	1402	4OC	O4'-C4'-C5'-O5'
32	1a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C3'-C4'-C5'-O5'
53	1v	19	PSU	O4'-C4'-C5'-O5'
54	1w	37	MIA	C12-C13-C14-C16
54	1y	37	MIA	O4'-C4'-C5'-O5'
54	2w	37	MIA	C5-C6-N6-C12
54	2w	37	MIA	N1-C6-N6-C12
54	1y	46	7MG	C4'-C5'-O5'-P
54	2y	46	7MG	C2'-C1'-N9-C8
54	2y	55	PSU	O4'-C1'-C5-C4
54	2y	55	PSU	C2'-C1'-C5-C6
54	2y	55	PSU	O4'-C1'-C5-C6
32	1a	527	7MG	C3'-C4'-C5'-O5'
32	1a	1519	MA6	C3'-C4'-C5'-O5'

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Mol	Chain	Res	Type	Atoms
54	1y	37	MIA	C3'-C4'-C5'-O5'
54	2w	46	7MG	O4'-C4'-C5'-O5'
32	2a	967	5MC	C3'-C4'-C5'-O5'
32	1a	1400	5MC	O4'-C4'-C5'-O5'
53	1v	19	PSU	C3'-C4'-C5'-O5'
54	1y	8	4SU	C3'-C4'-C5'-O5'
54	1y	8	4SU	O4'-C4'-C5'-O5'
54	2w	46	7MG	C3'-C4'-C5'-O5'
32	1a	967	5MC	C3'-C4'-C5'-O5'
32	2a	1402	4OC	C3'-C4'-C5'-O5'
32	2a	527	7MG	C3'-C4'-C5'-O5'
32	2a	1400	5MC	O4'-C4'-C5'-O5'
54	1y	46	7MG	C3'-C4'-C5'-O5'
32	1a	527	7MG	O4'-C4'-C5'-O5'
53	2v	19	PSU	O4'-C4'-C5'-O5'
54	1y	32	PSU	O4'-C4'-C5'-O5'
32	1a	1518	MA6	C5-C6-N6-C10
32	2a	1518	MA6	C5-C6-N6-C10
32	2a	1519	MA6	C5-C6-N6-C10
32	1a	1400	5MC	C3'-C4'-C5'-O5'
54	1w	54	5MU	O4'-C4'-C5'-O5'
32	2a	1518	MA6	C5-C6-N6-C9
32	1a	1519	MA6	C5-C6-N6-C10
54	1y	46	7MG	C2'-C1'-N9-C8
32	2a	1404	5MC	C3'-C4'-C5'-O5'
32	2a	527	7MG	O4'-C4'-C5'-O5'
54	2y	37	MIA	C3'-C4'-C5'-O5'
32	2a	527	7MG	C4'-C5'-O5'-P
55	2x	55	PSU	O4'-C4'-C5'-O5'
32	2a	1404	5MC	O4'-C4'-C5'-O5'
43	1l	92	0TD	SB-CB-CG-OD1
32	2a	1519	MA6	C4'-C5'-O5'-P
54	2y	37	MIA	C4'-C5'-O5'-P
32	2a	1400	5MC	C4'-C5'-O5'-P
32	1a	1519	MA6	C4'-C5'-O5'-P
54	2y	32	PSU	O4'-C1'-C5-C4
54	1y	55	PSU	O4'-C1'-C5-C4
1	1A	2503	2MA	C4'-C5'-O5'-P
54	1w	37	MIA	N6-C12-C13-C14
32	2a	1400	5MC	C3'-C4'-C5'-O5'
32	1a	1402	4OC	O4'-C4'-C5'-O5'
32	2a	1519	MA6	C5-C6-N6-C9

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Mol	Chain	Res	Type	Atoms
54	2y	46	7MG	C2'-C1'-N9-C4
54	2y	8	4SU	C4'-C5'-O5'-P
1	2A	2503	2MA	O4'-C4'-C5'-O5'
54	2y	32	PSU	O4'-C4'-C5'-O5'
54	2y	55	PSU	C3'-C4'-C5'-O5'
54	1y	46	7MG	O4'-C1'-N9-C8
54	1y	46	7MG	O4'-C4'-C5'-O5'
54	2y	32	PSU	O4'-C1'-C5-C6
1	1A	1915	5MU	O4'-C4'-C5'-O5'
32	1a	1518	MA6	C5-C6-N6-C9
43	1l	92	0TD	CG-CB-SB-CSB
43	2l	92	0TD	CG-CB-SB-CSB
53	2v	19	PSU	C3'-C4'-C5'-O5'
55	2x	8	4SU	C2'-C1'-N1-C6
54	1y	32	PSU	C3'-C4'-C5'-O5'
54	1w	54	5MU	C3'-C4'-C5'-O5'
32	1a	527	7MG	C4'-C5'-O5'-P
53	1v	19	PSU	C4'-C5'-O5'-P

There are no ring outliers.

No monomer is involved in short contacts.

4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

4.6 Ligand geometry [i](#)

Of 1466 ligands modelled in this entry, 1464 are monoatomic - leaving 2 for Mogul analysis.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z > 2$	Counts	RMSZ	$\# Z > 2$
58	SF4	1d	501	35	0,12,12	-	-	-		
58	SF4	2d	501	35	0,12,12	-	-	-		

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
58	SF4	1d	501	35	-	-	0/6/5/5
58	SF4	2d	501	35	-	-	0/6/5/5

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.

4.7 Other polymers [i](#)

There are no such residues in this entry.

4.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

5 Fit of model and data ⓘ

5.1 Protein, DNA and RNA chains ⓘ

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2			OWAB(Å ²)	Q < 0.9
1	1A	2860/2915 (98%)	-0.03	82 (2%)	53	46	67, 83, 117, 127	0
1	2A	2789/2915 (95%)	-0.09	47 (1%)	69	62	79, 94, 115, 128	0
2	1B	120/121 (99%)	-0.51	1 (0%)	82	78	77, 89, 99, 110	0
2	2B	120/121 (99%)	0.15	3 (2%)	58	50	96, 106, 115, 119	0
3	1D	275/276 (99%)	0.81	19 (6%)	23	19	71, 84, 93, 110	0
3	2D	275/276 (99%)	1.30	63 (22%)	2	2	78, 89, 98, 106	0
4	1E	204/206 (99%)	0.59	14 (6%)	23	19	70, 85, 96, 106	0
4	2E	204/206 (99%)	0.51	13 (6%)	25	21	82, 92, 100, 104	0
5	1F	203/210 (96%)	0.88	31 (15%)	5	5	72, 87, 101, 111	0
5	2F	203/210 (96%)	1.12	42 (20%)	2	2	82, 96, 105, 111	0
6	1G	181/182 (99%)	0.70	15 (8%)	17	15	77, 95, 104, 116	0
6	2G	181/182 (99%)	0.75	15 (8%)	17	15	97, 106, 113, 116	0
7	1H	174/180 (96%)	0.44	10 (5%)	29	24	81, 90, 98, 104	0
7	2H	174/180 (96%)	0.71	21 (12%)	8	8	95, 106, 112, 115	0
8	1I	146/148 (98%)	0.38	6 (4%)	41	34	86, 101, 107, 111	0
8	2I	146/148 (98%)	1.48	41 (28%)	1	1	92, 109, 117, 126	0
9	1N	140/140 (100%)	0.82	10 (7%)	22	19	74, 86, 97, 103	0
9	2N	140/140 (100%)	0.73	10 (7%)	22	19	82, 96, 104, 115	0
10	1O	122/122 (100%)	0.58	7 (5%)	29	24	73, 84, 92, 100	0
10	2O	122/122 (100%)	0.32	4 (3%)	49	42	82, 92, 99, 106	0
11	1P	149/150 (99%)	0.93	19 (12%)	7	7	67, 87, 100, 108	0
11	2P	149/150 (99%)	0.93	24 (16%)	4	4	81, 98, 111, 116	0
12	1Q	141/141 (100%)	0.91	16 (11%)	10	9	76, 86, 94, 105	0
12	2Q	141/141 (100%)	1.33	29 (20%)	2	2	85, 97, 105, 111	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	1R	118/118 (100%)	0.75	9 (7%) 20 18	72, 83, 95, 97	0
13	2R	118/118 (100%)	0.49	7 (5%) 28 23	82, 90, 97, 99	0
14	1S	110/112 (98%)	0.41	2 (1%) 67 59	80, 89, 94, 102	0
14	2S	110/112 (98%)	0.52	8 (7%) 21 18	92, 99, 104, 108	0
15	1T	131/146 (89%)	0.55	9 (6%) 23 19	78, 87, 99, 107	0
15	2T	131/146 (89%)	0.42	3 (2%) 61 53	83, 93, 104, 108	0
16	1U	116/118 (98%)	0.89	9 (7%) 19 17	70, 83, 92, 104	0
16	2U	116/118 (98%)	0.85	16 (13%) 6 6	81, 95, 105, 111	0
17	1V	101/101 (100%)	0.68	11 (10%) 10 9	72, 86, 95, 99	0
17	2V	101/101 (100%)	0.51	11 (10%) 10 9	88, 99, 106, 109	0
18	1W	112/113 (99%)	0.77	9 (8%) 18 16	72, 82, 93, 111	0
18	2W	112/113 (99%)	0.53	11 (9%) 13 12	80, 90, 100, 112	0
19	1X	95/96 (98%)	0.75	9 (9%) 14 12	71, 84, 96, 108	0
19	2X	95/96 (98%)	1.16	15 (15%) 5 4	87, 97, 105, 111	0
20	1Y	107/110 (97%)	0.63	6 (5%) 30 25	79, 89, 102, 106	0
20	2Y	107/110 (97%)	0.90	8 (7%) 20 18	92, 99, 108, 114	0
21	1Z	154/206 (74%)	0.46	8 (5%) 33 28	85, 96, 110, 116	0
21	2Z	160/206 (77%)	0.84	14 (8%) 15 14	95, 105, 112, 120	0
22	10	83/85 (97%)	1.41	9 (10%) 11 10	75, 84, 101, 110	0
22	20	83/85 (97%)	1.13	13 (15%) 5 5	90, 97, 109, 113	0
23	11	97/98 (98%)	1.58	29 (29%) 1 1	75, 86, 102, 108	0
23	21	97/98 (98%)	0.78	10 (10%) 12 11	81, 92, 103, 107	0
24	12	70/72 (97%)	0.33	4 (5%) 29 24	80, 88, 97, 104	0
24	22	70/72 (97%)	0.32	1 (1%) 73 67	90, 100, 106, 110	0
25	13	59/60 (98%)	0.24	0 100 100	75, 85, 94, 97	0
25	23	59/60 (98%)	0.42	2 (3%) 48 41	91, 97, 106, 110	0
26	14	69/71 (97%)	0.43	1 (1%) 73 67	91, 102, 113, 117	0
26	24	69/71 (97%)	0.83	5 (7%) 21 19	98, 110, 116, 121	0
27	15	59/60 (98%)	0.72	7 (11%) 9 8	74, 82, 93, 98	0
27	25	59/60 (98%)	0.56	5 (8%) 16 15	79, 88, 99, 105	0
28	16	53/54 (98%)	0.34	3 (5%) 29 24	76, 85, 92, 95	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	26	53/54 (98%)	0.58	4 (7%) 20 18	88, 95, 102, 105	0
29	17	48/49 (97%)	0.93	6 (12%) 8 7	73, 79, 94, 102	0
29	27	48/49 (97%)	0.75	2 (4%) 40 33	80, 86, 97, 107	0
30	18	64/65 (98%)	1.19	11 (17%) 4 3	72, 82, 88, 91	0
30	28	64/65 (98%)	1.05	10 (15%) 5 5	84, 92, 99, 100	0
31	19	37/37 (100%)	0.62	1 (2%) 56 48	78, 84, 92, 94	0
31	29	37/37 (100%)	0.94	7 (18%) 3 3	93, 101, 105, 110	0
32	1a	1488/1521 (97%)	-0.09	47 (3%) 50 43	80, 97, 114, 122	0
32	2a	1491/1521 (98%)	0.08	48 (3%) 50 43	89, 105, 116, 125	0
33	1b	231/256 (90%)	0.40	6 (2%) 57 49	92, 103, 111, 120	0
33	2b	231/256 (90%)	0.71	18 (7%) 19 17	96, 109, 115, 120	0
34	1c	206/239 (86%)	0.26	4 (1%) 66 58	89, 99, 106, 109	0
34	2c	206/239 (86%)	0.78	26 (12%) 8 7	97, 107, 111, 114	0
35	1d	208/209 (99%)	0.75	13 (6%) 26 22	87, 97, 105, 115	0
35	2d	208/209 (99%)	0.90	21 (10%) 12 11	91, 102, 111, 116	0
36	1e	148/162 (91%)	0.43	7 (4%) 36 30	86, 95, 101, 106	0
36	2e	148/162 (91%)	0.67	6 (4%) 41 34	93, 103, 110, 111	0
37	1f	100/101 (99%)	0.41	3 (3%) 52 45	89, 98, 104, 108	0
37	2f	100/101 (99%)	0.46	5 (5%) 34 28	91, 99, 105, 110	0
38	1g	155/156 (99%)	0.61	16 (10%) 12 11	91, 98, 108, 112	0
38	2g	155/156 (99%)	0.85	21 (13%) 7 6	94, 104, 111, 114	0
39	1h	137/138 (99%)	0.46	3 (2%) 62 54	88, 97, 103, 108	0
39	2h	137/138 (99%)	0.75	10 (7%) 21 18	94, 104, 109, 116	0
40	1i	127/128 (99%)	0.75	12 (9%) 14 12	88, 99, 106, 110	0
40	2i	127/128 (99%)	0.98	16 (12%) 8 7	93, 107, 113, 115	0
41	1j	97/105 (92%)	0.59	3 (3%) 51 44	86, 102, 109, 116	0
41	2j	96/105 (91%)	1.08	11 (11%) 9 9	98, 109, 114, 117	0
42	1k	114/129 (88%)	0.52	4 (3%) 47 40	89, 99, 106, 111	0
42	2k	114/129 (88%)	0.58	1 (0%) 81 76	91, 101, 107, 110	0
43	1l	121/132 (91%)	0.58	12 (9%) 13 11	83, 91, 98, 103	0
43	2l	121/132 (91%)	0.82	8 (6%) 24 21	91, 100, 106, 109	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
44	1m	123/126 (97%)	0.68	16 (13%) 7 7	86, 99, 107, 117	0
44	2m	122/126 (96%)	1.18	25 (20%) 2 2	97, 107, 115, 120	0
45	1n	60/61 (98%)	0.77	6 (10%) 12 11	88, 95, 101, 102	0
45	2n	60/61 (98%)	1.56	16 (26%) 1 1	96, 108, 113, 115	0
46	1o	88/89 (98%)	0.58	5 (5%) 29 24	83, 96, 104, 109	0
46	2o	88/89 (98%)	0.51	5 (5%) 29 24	94, 102, 109, 111	0
47	1p	82/88 (93%)	1.11	14 (17%) 4 3	92, 100, 106, 108	0
47	2p	82/88 (93%)	0.87	9 (10%) 10 9	90, 99, 104, 109	0
48	1q	99/105 (94%)	0.47	1 (1%) 79 74	88, 97, 103, 107	0
48	2q	99/105 (94%)	0.36	2 (2%) 65 57	91, 99, 107, 111	0
49	1r	68/88 (77%)	0.41	2 (2%) 53 46	88, 97, 104, 106	0
49	2r	68/88 (77%)	0.58	4 (5%) 28 23	91, 101, 106, 111	0
50	1s	83/93 (89%)	0.72	9 (10%) 11 10	93, 99, 106, 113	0
50	2s	83/93 (89%)	1.17	13 (15%) 5 5	102, 107, 112, 114	0
51	1t	96/106 (90%)	0.90	15 (15%) 5 5	90, 100, 105, 108	0
51	2t	96/106 (90%)	1.06	19 (19%) 3 3	91, 99, 107, 111	0
52	1u	23/27 (85%)	0.73	1 (4%) 40 32	93, 98, 101, 102	0
52	2u	23/27 (85%)	1.12	2 (8%) 16 14	102, 106, 109, 112	0
53	1v	12/24 (50%)	0.54	2 (16%) 4 4	88, 98, 119, 119	0
53	2v	7/24 (29%)	1.39	2 (28%) 1 1	100, 103, 118, 118	0
54	1w	64/76 (84%)	0.34	2 (3%) 51 44	94, 117, 124, 127	0
54	1y	67/76 (88%)	0.23	0 100 100	83, 120, 124, 126	0
54	2w	62/76 (81%)	0.49	1 (1%) 70 63	107, 122, 127, 130	0
54	2y	66/76 (86%)	0.64	1 (1%) 72 65	97, 119, 123, 126	0
55	1x	72/77 (93%)	0.04	4 (5%) 30 25	85, 97, 110, 112	0
55	2x	72/77 (93%)	-0.16	0 100 100	95, 108, 115, 119	0
All	All	20862/21748 (95%)	0.40	1334 (6%) 25 21	67, 96, 113, 130	0

All (1334) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
22	10	6	GLY	14.2
22	10	8	GLY	12.2

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Mol	Chain	Res	Type	RSRZ
22	10	7	LEU	11.7
22	10	4	LYS	11.5
22	10	5	LYS	8.6
12	2Q	85	LYS	8.5
22	10	3	HIS	8.4
5	2F	82	ILE	8.3
11	1P	11	GLY	7.3
22	20	13	GLY	7.3
44	1m	123	ALA	7.0
5	2F	83	PHE	7.0
19	2X	69	TYR	6.9
22	20	6	GLY	6.7
5	2F	80	ALA	6.6
20	2Y	29	GLU	6.6
22	20	8	GLY	6.6
11	1P	3	LEU	6.4
13	2R	68	ARG	6.4
19	2X	68	ARG	6.3
44	1m	124	PRO	6.3
23	21	2	SER	6.3
43	2l	64	TYR	6.2
22	20	7	LEU	6.1
5	2F	81	PRO	6.1
12	2Q	12	GLN	6.1
5	1F	50	SER	6.1
5	2F	50	SER	6.1
50	1s	81	ARG	6.1
5	2F	62	ARG	6.1
3	2D	38	LYS	5.9
22	10	2	ALA	5.9
8	2I	109	ILE	5.9
38	1g	85	TYR	5.8
38	1g	84	ASN	5.8
5	2F	57	VAL	5.7
23	11	23	LYS	5.7
3	2D	55	GLY	5.7
16	1U	4	ALA	5.6
5	1F	48	THR	5.5
49	2r	84	LYS	5.5
23	11	26	ARG	5.5
38	2g	153	HIS	5.5
11	1P	15	ARG	5.5

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Mol	Chain	Res	Type	RSRZ
11	1P	71	VAL	5.4
12	2Q	80	GLU	5.4
44	2m	124	PRO	5.4
45	2n	39	LEU	5.4
22	20	10	THR	5.4
17	1V	73	SER	5.4
18	1W	90	ARG	5.4
22	10	9	SER	5.3
51	1t	20	LEU	5.3
1	1A	2145	C	5.3
5	2F	89	VAL	5.3
22	10	12	ASN	5.3
8	2I	84	GLY	5.3
3	2D	215	LEU	5.3
38	1g	153	HIS	5.2
5	1F	52	LYS	5.2
44	2m	121	LYS	5.2
5	2F	78	ILE	5.2
22	20	4	LYS	5.2
23	11	2	SER	5.1
5	2F	64	ILE	5.1
8	2I	90	GLY	5.0
5	1F	89	VAL	5.0
8	2I	116	LEU	4.9
7	2H	94	TYR	4.9
40	2i	125	TYR	4.9
5	2F	90	PHE	4.9
8	1I	28	ASN	4.9
11	2P	45	LEU	4.9
5	2F	79	GLY	4.9
19	2X	70	LEU	4.9
51	2t	103	GLY	4.8
22	20	9	SER	4.8
1	1A	444	C	4.8
5	2F	56	GLU	4.8
5	1F	51	THR	4.8
50	2s	2	PRO	4.8
12	1Q	85	LYS	4.8
8	2I	123	LEU	4.8
32	2a	320	C	4.8
20	1Y	1	MET	4.8
17	1V	84	LYS	4.8

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Mol	Chain	Res	Type	RSRZ
15	1T	89	VAL	4.8
51	2t	24	LEU	4.7
27	15	60	VAL	4.7
45	2n	38	GLY	4.7
12	1Q	81	VAL	4.7
51	2t	23	ARG	4.7
22	20	3	HIS	4.7
6	2G	137	GLU	4.7
51	1t	18	GLN	4.7
12	1Q	80	GLU	4.7
23	11	27	GLU	4.7
44	2m	123	ALA	4.7
8	2I	89	TYR	4.6
45	2n	34	TYR	4.6
3	2D	59	LYS	4.6
22	20	5	LYS	4.6
17	1V	38	LEU	4.6
23	11	21	ARG	4.6
5	1F	90	PHE	4.6
8	2I	120	ILE	4.6
12	1Q	33	GLY	4.6
20	2Y	1	MET	4.6
27	15	2	ALA	4.6
51	2t	18	GLN	4.6
36	2e	90	VAL	4.6
1	1A	2506	U	4.5
31	29	37	GLY	4.5
8	1I	27	ARG	4.5
8	2I	93	THR	4.5
23	11	47	GLN	4.5
3	2D	39	LYS	4.5
22	20	2	ALA	4.5
23	11	36	GLY	4.5
4	2E	130	GLY	4.4
49	2r	85	LEU	4.4
12	2Q	86	GLY	4.4
27	25	6	VAL	4.4
38	2g	82	GLY	4.4
18	1W	93	ALA	4.4
43	1l	14	GLY	4.4
5	1F	95	ARG	4.4
55	1x	73	A	4.4

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Mol	Chain	Res	Type	RSRZ
3	2D	31	LYS	4.3
40	2i	127	LYS	4.3
1	2A	229	A	4.3
18	1W	95	ILE	4.3
3	1D	203	ASN	4.3
16	2U	33	ARG	4.3
3	2D	207	GLY	4.3
43	1l	13	LYS	4.3
11	2P	47	ASP	4.3
12	1Q	13	GLN	4.3
18	2W	85	VAL	4.3
30	18	5	LYS	4.3
38	2g	81	GLY	4.3
1	1A	377	C	4.2
1	1A	2141	G	4.2
32	2a	328	C	4.2
12	2Q	38	GLU	4.2
43	2l	26	ALA	4.2
20	2Y	41	GLY	4.2
15	1T	46	GLU	4.2
32	1a	345	C	4.2
5	2F	52	LYS	4.2
22	20	12	ASN	4.2
1	1A	1882	C	4.1
1	1A	1883	G	4.1
5	1F	97	TYR	4.1
39	2h	131	GLY	4.1
8	2I	100	ALA	4.1
11	2P	38	GLN	4.1
12	1Q	82	ARG	4.1
5	2F	76	GLY	4.1
1	1A	1759	A	4.1
32	1a	1434	A	4.1
5	2F	107	LYS	4.1
12	2Q	103	MET	4.1
44	1m	122	LYS	4.1
1	1A	436	C	4.1
14	2S	33	LYS	4.0
51	1t	103	GLY	4.0
24	12	69	ARG	4.0
3	1D	31	LYS	4.0
5	2F	74	ARG	4.0

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Mol	Chain	Res	Type	RSRZ
7	1H	19	VAL	4.0
38	2g	152	ALA	4.0
1	1A	435	C	4.0
6	2G	146	TYR	4.0
40	2i	102	LEU	4.0
17	2V	80	GLN	4.0
34	2c	137	ALA	3.9
3	2D	217	ARG	3.9
11	2P	20	GLY	3.9
38	2g	154	TYR	3.9
16	1U	2	PRO	3.9
5	2F	51	THR	3.9
12	2Q	25	ASP	3.9
12	2Q	73	PRO	3.9
32	2a	327	A	3.9
5	1F	83	PHE	3.9
12	2Q	77	LYS	3.9
12	2Q	87	LYS	3.9
19	2X	18	TYR	3.9
45	2n	25	VAL	3.9
4	2E	149	ARG	3.9
3	2D	259	THR	3.9
32	1a	336	C	3.9
12	2Q	15	GLY	3.8
7	1H	67	LEU	3.8
8	2I	92	VAL	3.8
19	2X	63	LYS	3.8
12	1Q	79	LEU	3.8
1	1A	2142	C	3.8
43	1l	16	GLU	3.8
38	2g	149	ARG	3.8
41	2j	47	PHE	3.8
1	1A	1761	C	3.8
35	2d	164	ALA	3.8
7	2H	107	VAL	3.8
41	2j	58	ASP	3.8
17	1V	81	TYR	3.8
32	1a	1531	A	3.8
23	11	11	ARG	3.7
16	1U	5	LYS	3.7
19	2X	33	LYS	3.7
12	2Q	13	GLN	3.7

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Mol	Chain	Res	Type	RSRZ
1	1A	2498	C	3.7
12	2Q	79	LEU	3.7
1	1A	38	A	3.7
3	1D	275	LYS	3.7
5	2F	108	LYS	3.7
9	2N	2	LYS	3.7
39	2h	112	LEU	3.7
38	1g	151	TYR	3.7
3	2D	6	PHE	3.7
32	1a	796	C	3.7
8	2I	122	GLU	3.7
33	2b	196	LEU	3.7
33	2b	37	ASN	3.7
9	1N	105	GLY	3.7
50	1s	55	LYS	3.7
9	1N	54	VAL	3.7
21	2Z	171	ILE	3.7
1	1A	390	A	3.7
13	2R	69	ASP	3.7
8	2I	85	GLU	3.7
32	1a	1257	U	3.7
6	1G	23	PHE	3.6
17	2V	75	PHE	3.6
38	2g	156	TRP	3.6
50	1s	79	THR	3.6
8	2I	111	PRO	3.6
8	2I	119	PRO	3.6
4	2E	129	HIS	3.6
8	2I	94	ALA	3.6
1	1A	2101	G	3.6
26	24	56	VAL	3.6
1	1A	378	C	3.6
1	2A	687	C	3.6
41	2j	65	LEU	3.6
8	1I	23	PRO	3.6
5	2F	75	HIS	3.6
14	2S	57	LYS	3.6
38	1g	82	GLY	3.6
4	2E	127	ASP	3.6
3	2D	257	LEU	3.6
52	2u	14	TRP	3.5
51	2t	9	ASN	3.5

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Mol	Chain	Res	Type	RSRZ
1	1A	2146	C	3.5
47	1p	59	TRP	3.5
33	2b	33	TYR	3.5
41	2j	62	HIS	3.5
10	1O	5	GLN	3.5
5	1F	55	GLY	3.5
3	2D	221	VAL	3.5
49	1r	78	LEU	3.5
3	2D	276	LYS	3.5
51	1t	14	LYS	3.5
7	1H	39	PRO	3.5
4	1E	151	TYR	3.5
19	1X	68	ARG	3.5
38	2g	83	ALA	3.5
2	2B	90	A	3.5
3	2D	51	VAL	3.5
17	1V	74	LYS	3.5
30	18	7	HIS	3.5
11	1P	70	GLN	3.4
32	1a	1508	G	3.4
32	2a	703	G	3.4
20	2Y	42	VAL	3.4
10	1O	81	ASP	3.4
36	1e	21	ALA	3.4
3	1D	15	PHE	3.4
23	21	39	LYS	3.4
27	25	10	LYS	3.4
39	1h	2	LEU	3.4
18	2W	90	ARG	3.4
32	1a	1467	G	3.4
43	1l	89	ARG	3.4
1	1A	37	C	3.4
3	2D	89	SER	3.4
23	21	64	ALA	3.4
45	1n	2	ALA	3.4
10	2O	1	MET	3.4
51	1t	24	LEU	3.4
42	1k	126	ARG	3.4
3	2D	2	ALA	3.4
3	1D	276	LYS	3.4
8	2I	121	LYS	3.4
40	2i	96	LEU	3.4

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Mol	Chain	Res	Type	RSRZ
17	2V	9	GLY	3.4
3	2D	69	ARG	3.4
5	1F	56	GLU	3.4
7	2H	60	ARG	3.4
27	15	7	PRO	3.4
26	24	40	HIS	3.4
11	2P	51	PHE	3.4
1	1A	443	A	3.4
3	1D	200	ASP	3.4
16	2U	8	VAL	3.3
31	29	16	VAL	3.3
11	1P	48	PRO	3.3
5	1F	49	ALA	3.3
35	1d	110	PHE	3.3
1	1A	2143	C	3.3
5	2F	104	LYS	3.3
51	2t	74	LYS	3.3
21	2Z	146	ILE	3.3
33	1b	77	ALA	3.3
47	2p	69	THR	3.3
12	2Q	14	ARG	3.3
15	2T	69	GLY	3.3
32	2a	321	A	3.3
44	2m	122	LYS	3.3
1	2A	436	C	3.3
1	2A	1990	C	3.3
1	2A	2146	C	3.3
35	2d	146	ILE	3.3
1	1A	614(B)	G	3.3
6	2G	133	LEU	3.3
38	2g	155	ARG	3.3
5	1F	92	PRO	3.3
30	18	2	PRO	3.3
1	1A	590	A	3.3
47	1p	33	ILE	3.3
4	1E	129	HIS	3.3
19	2X	66	LEU	3.3
11	2P	41	ARG	3.3
42	2k	126	ARG	3.3
47	1p	25	ARG	3.3
8	2I	81	VAL	3.3
43	1l	18	VAL	3.3

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Mol	Chain	Res	Type	RSRZ
32	2a	1220	G	3.3
44	2m	119	GLY	3.3
5	2F	59	TYR	3.2
1	1A	2144	U	3.2
1	1A	2696	U	3.2
3	2D	11	PRO	3.2
12	1Q	83	MET	3.2
41	2j	50	ILE	3.2
23	11	24	ALA	3.2
7	2H	64	LEU	3.2
32	1a	1433	A	3.2
53	2v	23	A	3.2
7	2H	115	VAL	3.2
5	1F	47	GLY	3.2
4	1E	147	PRO	3.2
32	2a	333	G	3.2
44	2m	101	GLN	3.2
3	2D	4	LYS	3.2
32	2a	60	A	3.2
43	2l	28	LYS	3.2
32	1a	1437	C	3.2
41	2j	76	ASN	3.2
44	1m	94	ARG	3.2
1	1A	2509	G	3.2
1	2A	2165	G	3.2
12	2Q	81	VAL	3.2
17	2V	79	VAL	3.2
3	2D	32	SER	3.2
41	2j	98	ILE	3.2
3	2D	274	ARG	3.2
29	17	23	ARG	3.2
38	2g	124	LEU	3.2
5	2F	49	ALA	3.2
3	1D	5	LYS	3.2
8	2I	87	LYS	3.2
50	2s	9	VAL	3.2
1	1A	2505	G	3.2
32	2a	108	G	3.2
34	2c	166	GLU	3.2
39	2h	91	ARG	3.1
45	2n	2	ALA	3.1
30	18	22	VAL	3.1

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Mol	Chain	Res	Type	RSRZ
32	2a	1465	C	3.1
33	2b	93	VAL	3.1
43	1l	12	ARG	3.1
50	1s	78	ARG	3.1
50	2s	16	LEU	3.1
45	2n	15	LYS	3.1
12	2Q	141	GLN	3.1
32	2a	1437	C	3.1
51	2t	47	GLY	3.1
23	1l	32	LYS	3.1
21	2Z	154	ASP	3.1
23	1l	65	SER	3.1
45	2n	37	PHE	3.1
40	1i	115	GLY	3.1
53	2v	22	U	3.1
3	2D	49	ILE	3.1
28	26	4	GLU	3.1
46	2o	3	ILE	3.1
4	1E	146	THR	3.1
9	2N	3	THR	3.1
21	1Z	170	THR	3.1
44	2m	105	THR	3.1
20	1Y	34	LYS	3.1
18	2W	93	ALA	3.1
21	2Z	152	ALA	3.1
3	2D	84	TYR	3.1
30	28	64	TYR	3.1
6	2G	28	VAL	3.1
47	2p	1	MET	3.1
1	1A	2411	A	3.1
32	1a	1392	G	3.1
46	2o	87	ILE	3.1
11	1P	49	ARG	3.1
3	2D	8	PRO	3.1
42	1k	42	TRP	3.0
38	2g	80	VAL	3.0
44	1m	87	TYR	3.0
12	2Q	24	GLY	3.0
31	29	21	GLY	3.0
31	29	17	ILE	3.0
41	1j	4	ILE	3.0
16	1U	37	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
39	2h	133	LEU	3.0
43	2l	10	LEU	3.0
44	2m	66	LEU	3.0
23	11	49	VAL	3.0
7	2H	93	GLY	3.0
11	2P	21	ARG	3.0
14	1S	3	ARG	3.0
23	11	39	LYS	3.0
37	1f	48	LEU	3.0
5	1F	66	PRO	3.0
11	1P	8	PRO	3.0
23	11	44	PRO	3.0
5	2F	85	GLY	3.0
8	2I	68	LEU	3.0
8	2I	110	ASP	3.0
18	1W	29	LEU	3.0
35	2d	71	SER	3.0
39	2h	72	PRO	3.0
3	2D	247	ALA	3.0
10	2O	41	ALA	3.0
33	1b	237	ALA	3.0
5	2F	105	VAL	3.0
24	12	37	PHE	3.0
34	2c	138	VAL	3.0
3	2D	202	LYS	3.0
17	2V	78	LYS	3.0
47	1p	31	LYS	3.0
7	2H	59	ARG	3.0
10	1O	22	ILE	3.0
14	2S	3	ARG	3.0
38	1g	86	GLN	3.0
49	1r	40	LEU	3.0
51	2t	102	GLY	3.0
1	1A	1176	G	3.0
32	2a	324	G	3.0
12	2Q	83	MET	3.0
3	2D	15	PHE	3.0
42	1k	30	VAL	3.0
47	1p	35	LYS	2.9
1	1A	2602	A	2.9
23	11	67	ILE	2.9
28	26	7	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
32	1a	694	A	2.9
14	2S	58	LEU	2.9
34	2c	188	LEU	2.9
39	2h	63	LEU	2.9
20	1Y	62	GLU	2.9
24	12	40	SER	2.9
1	1A	391	G	2.9
44	1m	2	ALA	2.9
5	1F	88	VAL	2.9
35	2d	92	VAL	2.9
37	1f	60	PHE	2.9
4	2E	133	LYS	2.9
20	1Y	4	LYS	2.9
23	11	41	ARG	2.9
27	25	19	ARG	2.9
20	2Y	55	TYR	2.9
1	2A	1379	A	2.9
1	2A	1847	A	2.9
32	1a	1507	A	2.9
33	1b	7	VAL	2.9
34	2c	133	ALA	2.9
35	2d	195	ALA	2.9
3	2D	5	LYS	2.9
30	28	7	HIS	2.9
32	1a	693	G	2.9
4	2E	141	ILE	2.9
6	2G	20	ILE	2.9
18	2W	82	LEU	2.9
32	2a	1257	U	2.9
35	2d	167	GLY	2.9
45	2n	14	PRO	2.9
40	1i	2	GLU	2.9
5	2F	73	ALA	2.9
7	2H	2	SER	2.9
50	2s	38	SER	2.9
11	2P	35	HIS	2.9
7	2H	151	ILE	2.9
36	2e	119	LEU	2.9
1	1A	1881	C	2.9
1	1A	2496	C	2.9
4	2E	10	GLY	2.9
5	2F	172	TRP	2.9

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Mol	Chain	Res	Type	RSRZ
32	2a	788	U	2.9
32	2a	685	G	2.9
32	2a	1442	G	2.9
33	1b	202	PRO	2.9
12	2Q	11	LYS	2.9
4	1E	143	ASN	2.9
35	2d	154	ASN	2.9
5	2F	88	VAL	2.9
21	2Z	174	VAL	2.9
1	1A	548	A	2.9
3	2D	96	HIS	2.9
5	1F	41	LEU	2.9
19	1X	66	LEU	2.9
1	2A	435	C	2.8
6	1G	48	GLU	2.8
23	11	64	ALA	2.8
34	2c	116	VAL	2.8
34	2c	151	VAL	2.8
40	1i	45	ALA	2.8
47	2p	25	ARG	2.8
33	2b	233	SER	2.8
44	2m	90	LEU	2.8
50	2s	15	LEU	2.8
32	1a	344	A	2.8
32	1a	1503	A	2.8
17	1V	101	GLY	2.8
35	2d	23	GLY	2.8
11	1P	108	LYS	2.8
12	1Q	76	LYS	2.8
29	17	14	LYS	2.8
12	2Q	140	ALA	2.8
17	1V	83	ARG	2.8
18	2W	92	ARG	2.8
32	1a	320	C	2.8
40	2i	10	ARG	2.8
51	2t	78	ALA	2.8
3	2D	53	PHE	2.8
3	1D	33	LEU	2.8
8	2I	88	ILE	2.8
51	2t	13	LEU	2.8
26	24	66	SER	2.8
32	2a	1030(A)	G	2.8

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Mol	Chain	Res	Type	RSRZ
40	2i	27	THR	2.8
4	1E	139	GLY	2.8
32	2a	161	A	2.8
27	25	9	LYS	2.8
50	2s	76	PRO	2.8
7	2H	159	GLU	2.8
3	1D	9	TYR	2.8
35	1d	168	ARG	2.8
16	2U	20	LEU	2.8
23	21	13	ILE	2.8
41	2j	8	LEU	2.8
1	1A	1886	C	2.8
1	1A	2551	C	2.8
55	1x	74	C	2.8
30	18	3	LYS	2.8
32	1a	1435	G	2.8
32	2a	332	G	2.8
54	2y	34	G	2.8
1	1A	1884	A	2.8
1	2A	2176	A	2.8
38	1g	146	GLU	2.8
12	2Q	82	ARG	2.8
19	1X	29	TRP	2.8
8	1I	89	TYR	2.8
8	2I	79	ILE	2.8
51	2t	21	LYS	2.8
38	1g	77	SER	2.8
47	1p	61	SER	2.8
16	2U	10	ARG	2.7
34	2c	167	TRP	2.7
1	1A	411	G	2.7
1	1A	2182	G	2.7
4	2E	134	ILE	2.7
46	2o	37	ASN	2.7
18	2W	94	ASP	2.7
16	2U	31	SER	2.7
13	1R	33	ARG	2.7
24	22	51	ARG	2.7
1	1A	451	C	2.7
44	1m	117	VAL	2.7
7	2H	103	LEU	2.7
11	1P	12	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
14	1S	4	LEU	2.7
4	2E	132	HIS	2.7
32	1a	698	G	2.7
3	1D	8	PRO	2.7
29	17	47	ARG	2.7
33	2b	232	PRO	2.7
46	1o	65	ARG	2.7
35	1d	192	GLU	2.7
15	1T	72	VAL	2.7
34	2c	130	VAL	2.7
1	2A	2145	C	2.7
1	2A	2174	C	2.7
38	2g	147	ALA	2.7
38	2g	150	ALA	2.7
44	2m	5	ALA	2.7
35	1d	38	TYR	2.7
35	2d	68	TYR	2.7
1	2A	181	A	2.7
1	2A	586	A	2.7
5	1F	45	ARG	2.7
8	1I	24	GLY	2.7
11	2P	37	GLY	2.7
35	2d	2	GLY	2.7
24	12	53	LEU	2.7
34	2c	129	ALA	2.7
17	1V	78	LYS	2.7
1	1A	591	C	2.7
44	2m	102	ARG	2.7
5	1F	208	GLY	2.7
5	2F	86	GLY	2.7
40	1i	30	GLY	2.7
32	2a	706	A	2.7
44	2m	7	VAL	2.7
35	2d	194	LEU	2.7
11	1P	51	PHE	2.6
32	1a	1530	G	2.6
32	2a	1438	G	2.6
3	2D	250	TRP	2.6
52	1u	14	TRP	2.6
38	1g	79	ARG	2.6
3	2D	56	GLY	2.6
5	2F	84	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
13	1R	49	ASP	2.6
21	1Z	169	GLU	2.6
32	1a	788	U	2.6
33	2b	15	VAL	2.6
38	2g	16	LEU	2.6
5	1F	64	ILE	2.6
44	1m	111	LYS	2.6
3	2D	226	MET	2.6
4	2E	187	ALA	2.6
40	1i	126	SER	2.6
19	1X	65	ARG	2.6
5	2F	87	GLY	2.6
11	2P	29	LYS	2.6
23	11	45	ASN	2.6
36	2e	13	ILE	2.6
47	1p	1	MET	2.6
8	2I	98	ALA	2.6
13	1R	41	ALA	2.6
21	2Z	172	ALA	2.6
43	1l	26	ALA	2.6
9	2N	115	ARG	2.6
11	2P	50	ARG	2.6
51	2t	22	ARG	2.6
3	2D	256	GLY	2.6
37	2f	51	PRO	2.6
3	1D	102	LYS	2.6
17	1V	76	LYS	2.6
27	15	3	LYS	2.6
44	1m	121	LYS	2.6
1	1A	2181	G	2.6
8	2I	19	VAL	2.6
8	2I	108	THR	2.6
11	2P	30	THR	2.6
18	2W	86	LEU	2.6
21	1Z	141	VAL	2.6
23	11	46	LEU	2.6
23	21	14	VAL	2.6
44	1m	103	THR	2.6
54	1w	15	G	2.6
11	1P	68	GLN	2.6
15	1T	130	ALA	2.6
44	2m	30	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
32	2a	701	C	2.6
1	1A	2449	U	2.6
32	2a	1436	U	2.6
41	2j	59	SER	2.6
30	18	46	ARG	2.6
9	1N	72	TYR	2.6
17	2V	81	TYR	2.6
23	2I	68	PRO	2.6
40	2i	36	TYR	2.6
50	1s	84	GLY	2.6
18	1W	69	LEU	2.6
15	2T	40	THR	2.6
30	18	6	THR	2.6
50	2s	31	ILE	2.6
9	1N	51	PHE	2.6
43	2l	32	PHE	2.6
1	1A	1248	G	2.5
1	2A	2162	G	2.5
32	1a	1511	G	2.5
55	1x	2	G	2.5
5	1F	44	ARG	2.5
16	2U	11	ARG	2.5
32	2a	1532	U	2.5
38	2g	79	ARG	2.5
1	1A	955	C	2.5
1	1A	1638	C	2.5
20	1Y	63	LYS	2.5
7	2H	88	LEU	2.5
12	1Q	2	LEU	2.5
36	2e	22	GLY	2.5
19	1X	69	TYR	2.5
33	2b	41	ILE	2.5
38	1g	80	VAL	2.5
45	2n	18	VAL	2.5
16	2U	37	GLU	2.5
35	2d	98	GLU	2.5
43	1l	9	GLN	2.5
36	1e	104	ALA	2.5
44	2m	118	ALA	2.5
3	1D	268	ARG	2.5
49	2r	87	ARG	2.5
1	1A	36	G	2.5

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Mol	Chain	Res	Type	RSRZ
1	1A	956	G	2.5
1	1A	2603	G	2.5
32	2a	1034	G	2.5
5	1F	94	PRO	2.5
5	2F	92	PRO	2.5
7	2H	5	GLY	2.5
19	1X	70	LEU	2.5
27	25	7	PRO	2.5
44	2m	6	GLY	2.5
18	1W	96	ILE	2.5
30	18	4	MET	2.5
40	2i	109	VAL	2.5
4	1E	87	GLU	2.5
40	2i	101	PHE	2.5
41	2j	63	PHE	2.5
8	2I	146	ALA	2.5
23	11	15	ALA	2.5
33	1b	123	ALA	2.5
22	20	11	ARG	2.5
11	1P	47	ASP	2.5
27	15	5	PRO	2.5
34	1c	87	LEU	2.5
51	2t	20	LEU	2.5
7	1H	166	GLY	2.5
43	1l	7	ILE	2.5
50	2s	68	GLY	2.5
19	1X	59	VAL	2.5
34	2c	141	VAL	2.5
50	2s	41	VAL	2.5
32	1a	334	C	2.5
32	2a	319	G	2.5
10	1O	79	PHE	2.5
12	2Q	104	PHE	2.5
26	24	49	PHE	2.5
17	2V	77	ALA	2.5
29	17	20	ALA	2.5
29	17	36	GLN	2.5
40	2i	7	THR	2.5
5	1F	38	ARG	2.5
51	1t	80	ARG	2.5
55	1x	72	A	2.5
29	27	48	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
44	1m	115	LYS	2.5
44	1m	120	LYS	2.5
35	2d	64	LEU	2.5
35	2d	108	LEU	2.5
35	2d	188	LEU	2.5
43	2l	31	PRO	2.5
21	1Z	171	ILE	2.5
9	1N	52	VAL	2.5
13	1R	48	VAL	2.5
23	1l	62	VAL	2.5
44	2m	64	TRP	2.5
3	2D	30	GLU	2.5
12	1Q	32	TYR	2.5
38	2g	146	GLU	2.5
3	2D	123	ALA	2.5
3	2D	273	ARG	2.5
8	2I	55	ALA	2.5
12	1Q	12	GLN	2.5
46	1o	64	ARG	2.5
40	2i	103	THR	2.5
45	2n	13	THR	2.5
23	1l	10	LYS	2.5
1	1A	2553	G	2.5
32	2a	61	G	2.5
32	2a	1461	G	2.5
11	1P	45	LEU	2.4
15	1T	107	ASP	2.4
51	2t	62	LEU	2.4
4	1E	98	PRO	2.4
25	23	2	PRO	2.4
34	2c	152	ILE	2.4
4	1E	148	GLY	2.4
13	1R	6	SER	2.4
35	1d	148	VAL	2.4
45	2n	33	VAL	2.4
5	1F	72	ARG	2.4
6	2G	115	ARG	2.4
33	2b	17	PHE	2.4
35	1d	81	GLU	2.4
39	2h	99	GLU	2.4
7	2H	90	LYS	2.4
20	2Y	94	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
38	1g	147	ALA	2.4
43	1l	91	LYS	2.4
1	1A	1758	G	2.4
1	1A	1857	G	2.4
1	2A	1763	G	2.4
40	2i	105	ASP	2.4
45	2n	7	ILE	2.4
3	2D	216	GLY	2.4
7	1H	35	VAL	2.4
40	2i	14	VAL	2.4
51	1t	83	ARG	2.4
1	1A	2554	U	2.4
3	2D	102	LYS	2.4
16	2U	32	PHE	2.4
29	17	2	LYS	2.4
30	28	52	LYS	2.4
32	1a	1196	U	2.4
47	2p	3	LYS	2.4
6	1G	73	ALA	2.4
8	2I	115	ALA	2.4
10	1O	30	ALA	2.4
44	2m	87	TYR	2.4
41	2j	67	THR	2.4
13	2R	54	LEU	2.4
8	2I	3	VAL	2.4
13	1R	97	VAL	2.4
15	1T	49	VAL	2.4
11	2P	36	LYS	2.4
40	1i	113	LYS	2.4
43	1l	47	LYS	2.4
1	1A	2147	G	2.4
2	2B	119	G	2.4
11	2P	40	SER	2.4
23	21	27	GLU	2.4
32	2a	107	G	2.4
33	2b	152	PHE	2.4
40	2i	126	SER	2.4
54	2w	15	G	2.4
8	2I	83	ALA	2.4
47	2p	24	ALA	2.4
51	2t	77	ALA	2.4
3	2D	9	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
6	1G	25	TYR	2.4
35	1d	157	LEU	2.4
38	1g	38	LEU	2.4
18	2W	96	ILE	2.4
3	2D	52	ARG	2.4
5	1F	93	LYS	2.4
9	2N	84	LYS	2.4
16	2U	28	ARG	2.4
1	1A	34	C	2.4
1	2A	1536	C	2.4
3	1D	144	ALA	2.4
1	1A	1856	G	2.4
30	18	64	TYR	2.4
8	2I	101	LEU	2.4
9	2N	120	LEU	2.4
46	2o	67	LEU	2.4
33	2b	32	ILE	2.4
3	2D	178	PRO	2.4
6	1G	38	VAL	2.3
38	2g	84	ASN	2.3
3	2D	100	GLY	2.3
8	2I	124	GLY	2.3
23	11	22	GLY	2.3
44	1m	95	GLY	2.3
38	2g	65	ALA	2.3
1	2A	208	C	2.3
1	2A	2164	C	2.3
1	1A	529	A	2.3
23	21	65	SER	2.3
32	1a	702	A	2.3
32	2a	162	A	2.3
47	2p	59	TRP	2.3
7	2H	68	THR	2.3
19	1X	92	LEU	2.3
28	16	10	LEU	2.3
35	1d	155	LEU	2.3
38	2g	85	TYR	2.3
47	1p	58	TYR	2.3
1	1A	2189	U	2.3
32	1a	692	U	2.3
32	2a	323	U	2.3
5	1F	81	PRO	2.3

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Mol	Chain	Res	Type	RSRZ
1	1A	2315	G	2.3
8	2I	144	VAL	2.3
11	1P	50	ARG	2.3
33	2b	165	VAL	2.3
39	2h	84	ARG	2.3
51	2t	25	ARG	2.3
5	2F	61	GLY	2.3
11	2P	54	GLY	2.3
34	1c	158	GLY	2.3
36	1e	22	GLY	2.3
50	1s	82	GLY	2.3
11	2P	94	GLU	2.3
47	1p	65	GLN	2.3
6	2G	7	LEU	2.3
26	24	9	LEU	2.3
33	1b	215	LEU	2.3
3	2D	58	HIS	2.3
6	2G	29	TRP	2.3
37	2f	17	SER	2.3
1	1A	2699	C	2.3
8	2I	130	TYR	2.3
21	2Z	170	THR	2.3
32	2a	796	C	2.3
32	1a	1513	A	2.3
34	2c	157	ILE	2.3
40	1i	125	TYR	2.3
5	2F	93	LYS	2.3
12	2Q	76	LYS	2.3
28	16	17	LYS	2.3
13	2R	105	ARG	2.3
29	27	47	ARG	2.3
35	2d	37	PRO	2.3
19	2X	51	VAL	2.3
37	2f	85	VAL	2.3
40	1i	14	VAL	2.3
40	2i	115	GLY	2.3
8	2I	28	ASN	2.3
6	1G	80	PHE	2.3
2	2B	89	G	2.3
11	2P	74	GLU	2.3
21	1Z	164	ALA	2.3
28	16	22	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
32	2a	1202	G	2.3
47	1p	68	ASP	2.3
3	1D	38	LYS	2.3
4	1E	140	SER	2.3
5	1F	34	TRP	2.3
6	2G	76	SER	2.3
8	2I	91	SER	2.3
28	26	54	ILE	2.3
51	2t	14	LYS	2.3
33	2b	209	ARG	2.3
38	1g	149	ARG	2.3
38	2g	32	ARG	2.3
45	2n	21	TYR	2.3
51	1t	23	ARG	2.3
1	2A	961	C	2.3
1	2A	2163	C	2.3
3	2D	18	VAL	2.3
27	15	45	VAL	2.3
54	1w	72	C	2.3
32	1a	229	U	2.3
32	1a	1393	U	2.3
6	1G	158	ALA	2.3
8	1I	85	GLU	2.3
30	28	10	ALA	2.3
6	2G	152	LEU	2.3
8	2I	72	LEU	2.3
38	2g	12	LEU	2.3
47	1p	60	LEU	2.3
50	1s	20	LEU	2.3
32	1a	1432	G	2.3
3	2D	13	ARG	2.3
16	2U	12	ARG	2.3
19	2X	73	ARG	2.3
30	18	37	SER	2.3
48	2q	7	THR	2.3
9	2N	122	VAL	2.3
40	1i	109	VAL	2.3
42	1k	113	PRO	2.3
44	2m	117	VAL	2.3
38	1g	19	GLY	2.3
51	1t	102	GLY	2.3
1	2A	2897	U	2.3

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Mol	Chain	Res	Type	RSRZ
32	1a	1528	U	2.3
32	1a	1532	U	2.3
1	2A	451	C	2.2
16	2U	40	PHE	2.2
32	2a	109	A	2.2
32	2a	322	C	2.2
3	2D	90	ALA	2.2
4	1E	123	ALA	2.2
4	2E	131	ALA	2.2
7	1H	18	GLU	2.2
7	1H	34	GLU	2.2
13	1R	102	GLU	2.2
13	2R	101	ALA	2.2
6	1G	82	LEU	2.2
13	2R	65	LEU	2.2
35	1d	120	LEU	2.2
16	1U	117	GLN	2.2
23	11	78	LYS	2.2
3	2D	211	ARG	2.2
20	2Y	2	ARG	2.2
40	1i	66	ARG	2.2
45	2n	3	ARG	2.2
51	1t	16	HIS	2.2
5	2F	53	THR	2.2
12	2Q	41	TRP	2.2
46	2o	60	VAL	2.2
1	1A	2447	G	2.2
1	2A	545	G	2.2
1	2A	2155	G	2.2
32	2a	78	G	2.2
5	2F	109	GLY	2.2
6	1G	119	GLY	2.2
19	2X	86	GLY	2.2
21	2Z	106	GLY	2.2
44	2m	100	GLY	2.2
36	2e	10	MET	2.2
1	1A	1078	U	2.2
32	2a	164	U	2.2
9	2N	67	LEU	2.2
11	2P	149	GLU	2.2
12	2Q	37	LEU	2.2
12	2Q	91	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
13	1R	18	LEU	2.2
46	1o	41	GLU	2.2
1	1A	2695	C	2.2
1	2A	1128	A	2.2
1	2A	2173	A	2.2
32	1a	262	A	2.2
3	2D	75	ILE	2.2
16	2U	17	ILE	2.2
5	2F	77	ASP	2.2
6	1G	91	ARG	2.2
7	1H	60	ARG	2.2
39	1h	18	ARG	2.2
45	2n	35	ARG	2.2
11	2P	125	VAL	2.2
23	1l	4	VAL	2.2
33	2b	7	VAL	2.2
34	2c	165	THR	2.2
50	1s	9	VAL	2.2
10	1O	7	TYR	2.2
12	2Q	26	TYR	2.2
12	2Q	137	TYR	2.2
23	1l	28	GLY	2.2
6	1G	182	LYS	2.2
1	1A	2576	G	2.2
1	2A	1264	G	2.2
7	2H	165	ALA	2.2
11	2P	31	ALA	2.2
17	2V	74	LYS	2.2
19	1X	13	LEU	2.2
32	1a	230	G	2.2
34	2c	91	LEU	2.2
40	1i	12	GLU	2.2
3	1D	227	ASN	2.2
9	1N	119	ARG	2.2
10	2O	5	GLN	2.2
17	2V	82	ARG	2.2
19	2X	60	ARG	2.2
22	20	14	ARG	2.2
31	29	18	ARG	2.2
1	1A	2711	A	2.2
5	2F	69	HIS	2.2
32	2a	1466	C	2.2

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Mol	Chain	Res	Type	RSRZ
3	2D	230	ASP	2.2
50	2s	13	ASP	2.2
9	1N	53	VAL	2.2
13	1R	66	VAL	2.2
34	2c	195	VAL	2.2
43	2l	5	PRO	2.2
7	1H	68	THR	2.2
9	2N	73	THR	2.2
47	1p	69	THR	2.2
11	2P	42	SER	2.2
35	2d	4	TYR	2.2
50	2s	35	SER	2.2
3	1D	39	LYS	2.2
8	2I	95	LYS	2.2
18	1W	98	LYS	2.2
23	2I	10	LYS	2.2
6	1G	152	LEU	2.2
30	28	62	LEU	2.2
34	1c	12	LEU	2.2
34	2c	42	LEU	2.2
45	1n	30	ALA	2.2
12	1Q	10	ARG	2.2
14	2S	35	ILE	2.2
23	1I	7	ILE	2.2
32	1a	1436	U	2.2
34	2c	131	ARG	2.2
47	1p	82	GLN	2.2
1	2A	944	G	2.2
1	2A	2250	G	2.2
32	1a	319	G	2.2
1	1A	960	A	2.2
1	2A	92	A	2.2
21	2Z	74	VAL	2.2
30	28	14	VAL	2.2
32	1a	161	A	2.2
33	2b	174	VAL	2.2
34	2c	153	VAL	2.2
53	1v	24	A	2.2
1	1A	393	C	2.2
1	2A	455	C	2.2
1	2A	2896	C	2.2
9	1N	48	MET	2.2

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Mol	Chain	Res	Type	RSRZ
7	2H	62	LYS	2.2
11	1P	44	GLY	2.2
16	2U	13	LYS	2.2
17	2V	8	GLY	2.2
36	1e	23	GLY	2.2
51	1t	34	LYS	2.2
6	2G	12	TYR	2.2
6	2G	80	PHE	2.2
8	2I	35	LEU	2.2
5	1F	35	GLU	2.2
14	2S	55	ALA	2.2
44	2m	72	ALA	2.2
3	2D	14	ARG	2.1
6	1G	88	ILE	2.1
6	2G	140	ILE	2.1
17	2V	83	ARG	2.1
18	1W	92	ARG	2.1
36	1e	24	ARG	2.1
5	1F	40	GLN	2.1
40	2i	124	GLN	2.1
3	2D	201	HIS	2.1
7	2H	114	VAL	2.1
31	19	7	VAL	2.1
34	2c	68	VAL	2.1
45	1n	14	PRO	2.1
45	1n	25	VAL	2.1
4	1E	127	ASP	2.1
19	2X	1	MET	2.1
11	2P	46	LYS	2.1
17	1V	85	LYS	2.1
1	1A	457	A	2.1
1	1A	2121	G	2.1
1	2A	171	G	2.1
1	2A	686	G	2.1
1	2A	1254	A	2.1
1	2A	2147	G	2.1
3	2D	40	THR	2.1
4	2E	124	GLY	2.1
32	1a	695	A	2.1
32	1a	1529	G	2.1
32	2a	378	G	2.1
44	1m	119	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
47	2p	37	GLY	2.1
38	1g	156	TRP	2.1
21	2Z	41	LEU	2.1
21	2Z	76	LEU	2.1
3	2D	97	TYR	2.1
12	2Q	93	TYR	2.1
50	1s	80	TYR	2.1
11	2P	12	ALA	2.1
16	2U	4	ALA	2.1
18	2W	89	ALA	2.1
21	2Z	52	SER	2.1
25	23	51	ALA	2.1
33	2b	29	ALA	2.1
49	2r	67	ALA	2.1
8	2I	97	ILE	2.1
18	2W	6	ILE	2.1
21	1Z	146	ILE	2.1
35	2d	67	ILE	2.1
37	2f	16	GLN	2.1
4	2E	137	HIS	2.1
7	2H	61	HIS	2.1
30	28	22	VAL	2.1
31	29	23	VAL	2.1
7	1H	41	MET	2.1
10	1O	1	MET	2.1
40	1i	90	PRO	2.1
4	1E	145	LYS	2.1
6	1G	74	LYS	2.1
6	2G	74	LYS	2.1
12	1Q	87	LYS	2.1
18	1W	94	ASP	2.1
3	2D	254	THR	2.1
15	1T	47	GLY	2.1
37	2f	45	LEU	2.1
44	2m	48	LEU	2.1
5	2F	65	TRP	2.1
1	1A	2062	A	2.1
5	1F	177	ALA	2.1
23	11	20	ARG	2.1
32	2a	684	A	2.1
33	2b	175	ARG	2.1
34	2c	65	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
51	1t	25	ARG	2.1
1	1A	254	G	2.1
1	1A	1245	G	2.1
1	2A	1764	G	2.1
32	2a	1441	G	2.1
44	2m	67	GLU	2.1
48	2q	58	GLU	2.1
1	1A	885	C	2.1
2	1B	88	C	2.1
32	1a	1527	C	2.1
3	1D	202	LYS	2.1
9	1N	55	VAL	2.1
16	1U	93	LYS	2.1
19	2X	52	VAL	2.1
34	2c	120	VAL	2.1
35	1d	198	VAL	2.1
38	1g	35	LYS	2.1
39	1h	61	VAL	2.1
43	2l	18	VAL	2.1
35	1d	37	PRO	2.1
43	1l	94	PRO	2.1
51	1t	68	LYS	2.1
32	2a	204	U	2.1
3	2D	206	LEU	2.1
3	2D	238	GLY	2.1
30	28	61	LEU	2.1
34	1c	175	LEU	2.1
34	2c	52	LEU	2.1
35	1d	108	LEU	2.1
5	1F	100	THR	2.1
52	2u	15	ARG	2.1
15	1T	131	ALA	2.1
20	2Y	96	ILE	2.1
35	1d	195	ALA	2.1
36	2e	108	ALA	2.1
41	1j	32	ALA	2.1
16	1U	24	TYR	2.1
18	2W	13	SER	2.1
32	1a	162	A	2.1
32	2a	1280	A	2.1
23	11	42	GLN	2.1
1	1A	2575	C	2.1

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Mol	Chain	Res	Type	RSRZ
1	2A	580	C	2.1
1	2A	2275	C	2.1
3	2D	258	LYS	2.1
11	2P	39	LYS	2.1
13	2R	50	HIS	2.1
28	26	5	VAL	2.1
32	2a	1033	G	2.1
39	2h	9	MET	2.1
14	2S	98	VAL	2.1
50	2s	32	LYS	2.1
30	28	63	PRO	2.1
36	1e	96	PRO	2.1
44	2m	41	PRO	2.1
41	1j	76	ASN	2.1
44	2m	106	ASN	2.1
19	2X	92	LEU	2.1
51	1t	13	LEU	2.1
15	1T	45	PHE	2.1
30	28	9	GLY	2.1
36	1e	114	GLY	2.1
23	2l	11	ARG	2.1
47	1p	8	ARG	2.1
4	1E	68	ALA	2.1
5	2F	206	ILE	2.1
7	2H	89	ILE	2.1
17	1V	77	ALA	2.1
10	2O	7	TYR	2.1
16	1U	15	LYS	2.0
30	18	8	LYS	2.0
34	2c	154	SER	2.0
48	1q	97	SER	2.0
44	1m	92	HIS	2.0
3	1D	229	VAL	2.0
20	1Y	45	VAL	2.0
32	1a	228	A	2.0
32	1a	1468	A	2.0
32	2a	325	A	2.0
32	2a	702	A	2.0
32	2a	1460	A	2.0
35	2d	112	VAL	2.0
53	1v	13	A	2.0
3	2D	249	PRO	2.0

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Mol	Chain	Res	Type	RSRZ
6	2G	112	PRO	2.0
1	1A	2715	C	2.0
1	2A	2789	C	2.0
16	2U	18	LEU	2.0
21	1Z	163	LEU	2.0
32	1a	335	C	2.0
32	1a	1431	C	2.0
39	2h	2	LEU	2.0
1	1A	442	G	2.0
1	1A	962	G	2.0
1	2A	2125	G	2.0
1	2A	2166	G	2.0
3	2D	223	GLY	2.0
11	1P	16	ARG	2.0
46	1o	89	GLY	2.0
51	2t	17	ARG	2.0
1	2A	1026	U	2.0
7	2H	148	ILE	2.0
27	15	29	THR	2.0
44	2m	4	ILE	2.0
46	1o	3	ILE	2.0
51	1t	71	THR	2.0
34	2c	189	ALA	2.0
45	1n	5	ALA	2.0
51	2t	28	ALA	2.0
12	1Q	41	TRP	2.0
16	1U	25	TRP	2.0
47	2p	48	TRP	2.0
3	1D	184	LYS	2.0
11	1P	36	LYS	2.0
12	1Q	77	LYS	2.0
16	2U	34	LYS	2.0
45	1n	17	LYS	2.0
9	2N	1	MET	2.0
9	2N	103	VAL	2.0
14	2S	34	HIS	2.0
21	2Z	71	VAL	2.0
21	2Z	121	HIS	2.0
1	1A	896	A	2.0
1	1A	1854	A	2.0
1	1A	2497	A	2.0
1	2A	1132	A	2.0

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Mol	Chain	Res	Type	RSRZ
8	2I	77	LEU	2.0
21	1Z	150	LEU	2.0
47	2p	6	LEU	2.0
3	2D	268	ARG	2.0
5	2F	29	ASN	2.0
5	2F	72	ARG	2.0
31	29	22	ARG	2.0
35	2d	73	ARG	2.0
15	2T	71	GLY	2.0
26	14	22	ILE	2.0
32	1a	1501	C	2.0
34	2c	124	ILE	2.0
3	2D	158	ALA	2.0
44	1m	118	ALA	2.0
45	2n	30	ALA	2.0
1	1A	2265	U	2.0
6	1G	150	ASP	2.0
37	1f	55	ASP	2.0
1	1A	2446	G	2.0
1	2A	188	G	2.0
1	2A	2116	G	2.0
9	1N	109	LYS	2.0
11	1P	46	LYS	2.0
19	2X	64	LYS	2.0
32	1a	685	G	2.0
32	2a	331	G	2.0
50	2s	18	LYS	2.0
3	2D	252	TRP	2.0
33	2b	136	VAL	2.0
35	2d	170	VAL	2.0

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

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
54	5MU	2y	54	21/22	0.45	0.15	101,120,137,154	0
54	PSU	1y	55	20/21	0.56	0.13	119,126,131,138	0
54	5MU	2w	54	21/22	0.58	0.15	103,113,118,121	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
54	7MG	1w	46	24/25	0.62	0.12	105,115,124,133	0
54	4SU	2y	8	20/21	0.62	0.12	115,120,129,132	0
54	PSU	2w	55	20/21	0.62	0.12	105,120,127,131	0
54	4SU	2w	8	20/21	0.63	0.11	122,126,137,146	0
54	PSU	2y	55	20/21	0.65	0.14	114,121,139,154	0
54	4SU	1w	8	20/21	0.67	0.10	112,119,134,134	0
54	7MG	2w	46	24/25	0.68	0.11	113,122,129,141	0
54	PSU	1y	39	20/21	0.70	0.10	107,116,137,143	0
54	PSU	1y	32	20/21	0.70	0.13	105,113,128,129	0
54	5MU	1y	54	21/22	0.72	0.10	114,120,132,137	0
54	7MG	1y	46	24/25	0.73	0.10	109,119,125,130	0
54	7MG	2y	46	24/25	0.73	0.11	114,121,128,137	0
54	MIA	1y	37	22/30	0.75	0.11	108,117,123,134	0
54	PSU	2y	32	20/21	0.75	0.12	109,122,134,138	0
54	4SU	1y	8	20/21	0.76	0.09	115,120,127,132	0
54	PSU	1w	55	20/21	0.77	0.10	102,112,115,117	0
54	MIA	2y	37	22/30	0.77	0.13	107,116,130,143	0
54	PSU	2y	39	20/21	0.79	0.14	110,119,130,143	0
1	5MU	2A	1915	21/22	0.80	0.11	101,107,111,116	0
54	MIA	2w	37	25/30	0.80	0.15	91,115,118,133	0
54	PSU	1w	32	20/21	0.81	0.10	90,101,108,117	0
54	MIA	1w	37	29/30	0.81	0.17	78,99,107,108	0
32	2MG	2a	1207	24/25	0.82	0.11	100,107,116,125	0
55	4SU	2x	8	20/21	0.83	0.08	97,110,116,120	0
55	PSU	2x	55	20/21	0.83	0.08	106,112,122,123	0
54	PSU	2w	39	20/21	0.84	0.14	115,123,126,127	0
53	PSU	1v	19	20/21	0.85	0.13	79,95,102,102	0
54	5MU	1w	54	21/22	0.86	0.10	104,108,117,119	0
32	PSU	1a	516	20/21	0.86	0.10	84,92,98,104	0
55	PSU	1x	55	20/21	0.86	0.09	94,100,107,116	0
55	5MU	2x	54	21/22	0.86	0.08	103,111,114,124	0
55	4SU	1x	8	20/21	0.87	0.08	93,100,106,110	0
53	PSU	2v	19	20/21	0.87	0.12	105,112,119,120	0
54	PSU	1w	39	20/21	0.88	0.09	97,105,119,120	0
54	PSU	2w	32	20/21	0.88	0.12	108,114,123,126	0
32	PSU	2a	516	20/21	0.89	0.09	92,103,111,114	0
1	5MU	1A	1939	21/22	0.89	0.10	66,78,86,90	0
32	5MC	2a	967	21/22	0.90	0.14	99,102,110,118	0
1	5MC	2A	1962	21/22	0.90	0.12	77,89,95,99	0
1	PSU	2A	1917	20/21	0.90	0.07	86,103,108,111	0
55	5MU	1x	54	21/22	0.90	0.07	86,97,101,105	0
1	4OC	2A	1920	21/23	0.91	0.09	89,98,103,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
1	PSU	2A	2605	20/21	0.91	0.12	79,88,93,96	0
55	5MC	2x	32	21/22	0.91	0.12	99,105,110,112	0
1	5MU	2A	1939	21/22	0.91	0.11	75,86,91,95	0
1	PSU	2A	1911	20/21	0.92	0.08	86,98,105,106	0
32	7MG	2a	527	24/25	0.92	0.11	89,95,101,112	0
43	0TD	1l	92	10/11	0.92	0.11	88,91,97,113	0
1	5MC	2A	1942	21/22	0.92	0.10	88,94,99,106	0
32	5MC	2a	1400	21/22	0.92	0.17	87,108,118,120	0
32	2MG	1a	1207	24/25	0.93	0.08	77,95,102,105	0
55	5MC	1x	32	21/22	0.93	0.11	84,95,100,102	0
1	5MU	1A	1915	21/22	0.93	0.07	82,100,104,110	0
32	4OC	2a	1402	22/23	0.93	0.11	97,104,109,114	0
32	5MC	2a	1404	21/22	0.93	0.10	84,99,105,110	0
1	OMG	2A	2251	24/25	0.94	0.14	74,88,94,96	0
32	M2G	2a	966	25/26	0.94	0.12	93,99,106,113	0
1	2MA	2A	2503	23/24	0.94	0.11	70,81,88,92	0
1	PSU	1A	2605	20/21	0.94	0.10	66,79,85,86	0
1	5MC	1A	1942	21/22	0.94	0.10	65,81,86,88	0
32	5MC	1a	1400	21/22	0.94	0.12	81,91,96,104	0
1	PSU	1A	1911	20/21	0.94	0.09	70,90,95,100	0
1	PSU	1A	1917	20/21	0.94	0.07	83,90,95,96	0
32	5MC	1a	1404	21/22	0.94	0.12	74,83,96,97	0
32	7MG	1a	527	24/25	0.94	0.10	78,89,96,98	0
32	5MC	2a	1407	21/22	0.95	0.09	93,98,101,106	0
32	MA6	2a	1519	24/25	0.95	0.15	86,99,103,105	0
1	2MU	1A	2552	21/23	0.95	0.12	58,78,84,92	0
32	4OC	1a	1402	22/23	0.95	0.11	82,92,98,100	0
1	2MU	2A	2552	21/23	0.95	0.07	74,84,89,91	0
32	M2G	1a	966	25/26	0.95	0.12	81,87,96,98	0
1	OMG	1A	2251	24/25	0.95	0.12	66,80,85,86	0
32	5MC	1a	1407	21/22	0.95	0.08	76,88,93,97	0
32	MA6	1a	1519	24/25	0.96	0.14	82,87,92,99	0
32	5MC	1a	967	21/22	0.96	0.09	77,88,95,101	0
1	2MA	1A	2503	23/24	0.96	0.13	58,74,81,83	0
1	5MC	1A	1962	21/22	0.96	0.07	72,83,91,94	0
1	4OC	1A	1920	21/23	0.96	0.08	76,89,95,96	0
32	UR3	1a	1498	21/22	0.96	0.15	78,85,89,93	0
32	UR3	2a	1498	21/22	0.96	0.11	88,98,102,106	0
32	MA6	2a	1518	24/25	0.96	0.08	90,97,101,102	0
32	MA6	1a	1518	24/25	0.97	0.09	58,85,89,93	0
43	0TD	2l	92	10/11	0.97	0.09	95,101,103,110	0

5.3 Carbohydrates ⓘ

There are no oligosaccharides in this entry.

5.4 Ligands ⓘ

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3120	1/1	0.18	0.33	111,111,111,111	0
56	MG	2a	3082	1/1	0.24	0.45	109,109,109,109	0
56	MG	2a	3162	1/1	0.35	0.12	126,126,126,126	0
56	MG	2a	3144	1/1	0.36	0.17	101,101,101,101	0
56	MG	2a	3087	1/1	0.37	0.37	94,94,94,94	0
56	MG	1a	3149	1/1	0.39	0.28	110,110,110,110	0
56	MG	2a	3173	1/1	0.40	0.32	115,115,115,115	0
56	MG	2a	3106	1/1	0.42	0.22	124,124,124,124	0
56	MG	1A	3674	1/1	0.43	0.43	81,81,81,81	0
56	MG	1A	3579	1/1	0.47	0.16	118,118,118,118	0
56	MG	2a	3077	1/1	0.49	0.28	95,95,95,95	0
56	MG	2a	3091	1/1	0.50	0.43	92,92,92,92	0
56	MG	2A	3323	1/1	0.51	0.18	104,104,104,104	0
56	MG	2a	3180	1/1	0.51	0.20	102,102,102,102	0
56	MG	1A	3041	1/1	0.52	0.56	105,105,105,105	0
56	MG	1A	3045	1/1	0.52	0.27	94,94,94,94	0
56	MG	1A	3020	1/1	0.53	0.33	89,89,89,89	0
56	MG	2a	3166	1/1	0.53	0.15	115,115,115,115	0
56	MG	1A	3648	1/1	0.54	0.20	127,127,127,127	0
56	MG	2A	3258	1/1	0.54	0.25	103,103,103,103	0
56	MG	1A	3441	1/1	0.54	0.32	103,103,103,103	0
56	MG	2a	3161	1/1	0.54	0.29	104,104,104,104	0
56	MG	1A	3533	1/1	0.55	0.30	114,114,114,114	0
56	MG	1A	3377	1/1	0.55	0.37	102,102,102,102	0
56	MG	2A	3277	1/1	0.55	0.30	93,93,93,93	0
56	MG	2A	3344	1/1	0.56	0.28	106,106,106,106	0
56	MG	1A	3119	1/1	0.56	0.29	107,107,107,107	0
56	MG	1a	3214	1/1	0.56	0.43	103,103,103,103	0
56	MG	2A	3019	1/1	0.56	0.34	101,101,101,101	0
56	MG	1A	3497	1/1	0.57	0.15	96,96,96,96	0
56	MG	1A	3394	1/1	0.57	0.37	91,91,91,91	0
56	MG	2A	3190	1/1	0.57	0.23	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	2A	3221	1/1	0.58	0.37	107,107,107,107	0
56	MG	2A	3317	1/1	0.58	0.18	92,92,92,92	0
56	MG	1A	3190	1/1	0.58	0.40	118,118,118,118	0
56	MG	1a	3166	1/1	0.59	0.20	100,100,100,100	0
56	MG	2a	3050	1/1	0.59	0.21	105,105,105,105	0
56	MG	2a	3066	1/1	0.59	0.21	106,106,106,106	0
56	MG	1A	3534	1/1	0.59	0.29	86,86,86,86	0
56	MG	1a	3021	1/1	0.59	0.34	102,102,102,102	0
56	MG	1A	3559	1/1	0.59	0.18	115,115,115,115	0
56	MG	2A	3201	1/1	0.59	0.23	102,102,102,102	0
56	MG	2A	3074	1/1	0.60	0.27	102,102,102,102	0
56	MG	1A	3063	1/1	0.61	0.31	80,80,80,80	0
56	MG	2A	3341	1/1	0.61	0.22	94,94,94,94	0
56	MG	2a	3098	1/1	0.62	0.34	101,101,101,101	0
56	MG	2A	3326	1/1	0.62	0.16	91,91,91,91	0
56	MG	2a	3121	1/1	0.62	0.26	114,114,114,114	0
56	MG	1A	3486	1/1	0.63	0.22	68,68,68,68	0
56	MG	1a	3209	1/1	0.63	0.39	90,90,90,90	0
56	MG	2a	3006	1/1	0.63	0.20	104,104,104,104	0
56	MG	1A	3629	1/1	0.63	0.29	106,106,106,106	0
56	MG	2A	3205	1/1	0.63	0.20	111,111,111,111	0
56	MG	1a	3157	1/1	0.63	0.39	89,89,89,89	0
56	MG	2A	3078	1/1	0.64	0.23	75,75,75,75	0
56	MG	2A	3289	1/1	0.64	0.21	102,102,102,102	0
56	MG	2a	3020	1/1	0.64	0.16	98,98,98,98	0
56	MG	1a	3122	1/1	0.64	0.12	93,93,93,93	0
56	MG	2a	3090	1/1	0.64	0.36	91,91,91,91	0
56	MG	1A	3172	1/1	0.65	0.24	94,94,94,94	0
56	MG	1A	3256	1/1	0.65	0.31	84,84,84,84	0
56	MG	1A	3565	1/1	0.66	0.33	83,83,83,83	0
56	MG	1A	3294	1/1	0.66	0.44	87,87,87,87	0
56	MG	2a	3156	1/1	0.66	0.24	104,104,104,104	0
56	MG	2A	3138	1/1	0.66	0.20	102,102,102,102	0
56	MG	1A	3428	1/1	0.66	0.29	79,79,79,79	0
56	MG	2a	3164	1/1	0.66	0.18	114,114,114,114	0
56	MG	1a	3162	1/1	0.66	0.32	93,93,93,93	0
56	MG	2a	3100	1/1	0.66	0.35	94,94,94,94	0
56	MG	2a	3079	1/1	0.66	0.11	90,90,90,90	0
56	MG	1A	3599	1/1	0.67	0.22	100,100,100,100	0
56	MG	1a	3051	1/1	0.67	0.36	99,99,99,99	0
56	MG	2A	3026	1/1	0.67	0.14	92,92,92,92	0
56	MG	1a	3182	1/1	0.67	0.23	102,102,102,102	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3096	1/1	0.67	0.12	95,95,95,95	0
56	MG	1A	3601	1/1	0.68	0.17	102,102,102,102	0
56	MG	2a	3152	1/1	0.68	0.12	111,111,111,111	0
56	MG	1a	3236	1/1	0.68	0.27	85,85,85,85	0
56	MG	1A	3219	1/1	0.68	0.21	84,84,84,84	0
56	MG	1A	3470	1/1	0.68	0.28	100,100,100,100	0
56	MG	2a	3062	1/1	0.68	0.24	94,94,94,94	0
56	MG	1a	3198	1/1	0.68	0.29	89,89,89,89	0
56	MG	1a	3068	1/1	0.68	0.33	95,95,95,95	0
56	MG	2A	3343	1/1	0.68	0.21	99,99,99,99	0
56	MG	1a	3044	1/1	0.69	0.29	90,90,90,90	0
56	MG	1A	3657	1/1	0.69	0.39	79,79,79,79	0
56	MG	1a	3152	1/1	0.69	0.20	102,102,102,102	0
56	MG	2a	3036	1/1	0.69	0.35	95,95,95,95	0
56	MG	2A	3095	1/1	0.69	0.33	89,89,89,89	0
56	MG	2a	3138	1/1	0.69	0.29	95,95,95,95	0
56	MG	2A	3301	1/1	0.69	0.20	83,83,83,83	0
56	MG	2a	3146	1/1	0.69	0.11	100,100,100,100	0
56	MG	1A	3591	1/1	0.70	0.40	83,83,83,83	0
56	MG	1A	3636	1/1	0.70	0.21	73,73,73,73	0
56	MG	1A	3117	1/1	0.70	0.14	98,98,98,98	0
56	MG	1A	3445	1/1	0.70	0.17	80,80,80,80	0
56	MG	2A	3025	1/1	0.71	0.16	88,88,88,88	0
56	MG	2A	3316	1/1	0.71	0.14	93,93,93,93	0
56	MG	1A	3359	1/1	0.71	0.15	89,89,89,89	0
56	MG	1A	3623	1/1	0.71	0.21	87,87,87,87	0
56	MG	2A	3210	1/1	0.71	0.18	75,75,75,75	0
56	MG	2A	3330	1/1	0.71	0.19	101,101,101,101	0
56	MG	1a	3197	1/1	0.72	0.26	102,102,102,102	0
56	MG	2a	3139	1/1	0.72	0.25	81,81,81,81	0
56	MG	2A	3139	1/1	0.72	0.28	101,101,101,101	0
56	MG	2A	3184	1/1	0.72	0.25	82,82,82,82	0
56	MG	2a	3150	1/1	0.72	0.25	87,87,87,87	0
56	MG	1A	3376	1/1	0.72	0.28	92,92,92,92	0
56	MG	1A	3053	1/1	0.72	0.35	95,95,95,95	0
56	MG	2a	3092	1/1	0.72	0.27	88,88,88,88	0
56	MG	1A	3457	1/1	0.72	0.28	77,77,77,77	0
56	MG	1A	3592	1/1	0.72	0.22	84,84,84,84	0
56	MG	2A	3090	1/1	0.72	0.20	98,98,98,98	0
56	MG	2a	3113	1/1	0.72	0.19	111,111,111,111	0
56	MG	2A	3003	1/1	0.72	0.25	84,84,84,84	0
56	MG	2a	3015	1/1	0.73	0.34	98,98,98,98	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3191	1/1	0.73	0.27	93,93,93,93	0
56	MG	2A	3261	1/1	0.73	0.18	98,98,98,98	0
56	MG	2A	3084	1/1	0.73	0.21	90,90,90,90	0
56	MG	1A	3339	1/1	0.73	0.42	112,112,112,112	0
56	MG	2A	3094	1/1	0.73	0.15	85,85,85,85	0
56	MG	1A	3414	1/1	0.73	0.31	82,82,82,82	0
56	MG	1a	3121	1/1	0.73	0.10	88,88,88,88	0
56	MG	1A	3340	1/1	0.73	0.30	78,78,78,78	0
56	MG	1A	3266	1/1	0.73	0.28	65,65,65,65	0
56	MG	1a	3009	1/1	0.73	0.19	91,91,91,91	0
56	MG	1A	3290	1/1	0.73	0.34	90,90,90,90	0
56	MG	1a	3031	1/1	0.73	0.41	103,103,103,103	0
56	MG	1A	3456	1/1	0.73	0.20	96,96,96,96	0
56	MG	2a	3099	1/1	0.73	0.23	93,93,93,93	0
56	MG	1A	3165	1/1	0.73	0.29	86,86,86,86	0
56	MG	2a	3115	1/1	0.74	0.18	103,103,103,103	0
56	MG	1A	3646	1/1	0.74	0.20	92,92,92,92	0
56	MG	2a	3122	1/1	0.74	0.36	114,114,114,114	0
56	MG	2a	3134	1/1	0.74	0.23	100,100,100,100	0
56	MG	2a	3076	1/1	0.74	0.26	99,99,99,99	0
56	MG	1A	3479	1/1	0.74	0.21	86,86,86,86	0
56	MG	1a	3077	1/1	0.74	0.19	84,84,84,84	0
56	MG	1A	3239	1/1	0.74	0.23	93,93,93,93	0
56	MG	1a	3036	1/1	0.74	0.35	90,90,90,90	0
56	MG	2A	3134	1/1	0.74	0.23	91,91,91,91	0
56	MG	1A	3361	1/1	0.74	0.37	71,71,71,71	0
56	MG	2a	3010	1/1	0.74	0.21	86,86,86,86	0
56	MG	1a	3140	1/1	0.74	0.32	84,84,84,84	0
56	MG	2A	3147	1/1	0.74	0.16	84,84,84,84	0
56	MG	2A	3302	1/1	0.74	0.13	82,82,82,82	0
56	MG	1a	3194	1/1	0.74	0.16	102,102,102,102	0
56	MG	2a	3176	1/1	0.74	0.28	83,83,83,83	0
56	MG	1a	3143	1/1	0.74	0.42	91,91,91,91	0
56	MG	1a	3238	1/1	0.75	0.30	99,99,99,99	0
56	MG	1A	3025	1/1	0.75	0.23	87,87,87,87	0
56	MG	2a	3142	1/1	0.75	0.30	103,103,103,103	0
56	MG	1A	3587	1/1	0.75	0.28	80,80,80,80	0
56	MG	2A	3325	1/1	0.75	0.15	91,91,91,91	0
56	MG	2a	3148	1/1	0.75	0.19	92,92,92,92	0
56	MG	2a	3060	1/1	0.75	0.14	101,101,101,101	0
56	MG	1A	3407	1/1	0.75	0.21	91,91,91,91	0
56	MG	1A	3481	1/1	0.75	0.25	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3293	1/1	0.75	0.13	95,95,95,95	0
56	MG	2a	3114	1/1	0.75	0.25	92,92,92,92	0
56	MG	2A	3294	1/1	0.75	0.11	104,104,104,104	0
56	MG	2A	3055	1/1	0.75	0.17	92,92,92,92	0
56	MG	2a	3171	1/1	0.75	0.14	115,115,115,115	0
56	MG	1a	3133	1/1	0.75	0.21	90,90,90,90	0
56	MG	2a	3132	1/1	0.75	0.22	83,83,83,83	0
56	MG	2A	3311	1/1	0.75	0.22	106,106,106,106	0
56	MG	1a	3189	1/1	0.76	0.34	85,85,85,85	0
56	MG	1A	3513	1/1	0.76	0.20	88,88,88,88	0
56	MG	1A	3600	1/1	0.76	0.15	77,77,77,77	0
56	MG	1A	3519	1/1	0.76	0.20	88,88,88,88	0
56	MG	1a	3060	1/1	0.76	0.15	83,83,83,83	0
56	MG	1a	3063	1/1	0.76	0.21	89,89,89,89	0
56	MG	2a	3123	1/1	0.76	0.34	79,79,79,79	0
56	MG	1A	3615	1/1	0.76	0.14	95,95,95,95	0
56	MG	1A	3525	1/1	0.76	0.09	101,101,101,101	0
56	MG	1A	3318	1/1	0.76	0.32	99,99,99,99	0
56	MG	2A	3230	1/1	0.76	0.30	82,82,82,82	0
56	MG	1A	3336	1/1	0.76	0.34	81,81,81,81	0
56	MG	1A	3211	1/1	0.76	0.33	88,88,88,88	0
56	MG	1A	3257	1/1	0.76	0.29	80,80,80,80	0
56	MG	2a	3069	1/1	0.76	0.17	103,103,103,103	0
56	MG	1A	3651	1/1	0.76	0.14	90,90,90,90	0
56	MG	2A	3035	1/1	0.76	0.29	92,92,92,92	0
56	MG	2A	3047	1/1	0.76	0.18	89,89,89,89	0
56	MG	1A	3573	1/1	0.76	0.15	88,88,88,88	0
56	MG	1A	3658	1/1	0.76	0.23	98,98,98,98	0
56	MG	1A	3161	1/1	0.76	0.18	90,90,90,90	0
56	MG	1A	3191	1/1	0.76	0.29	90,90,90,90	0
56	MG	1A	3240	1/1	0.76	0.15	101,101,101,101	0
56	MG	1a	3027	1/1	0.76	0.29	76,76,76,76	0
56	MG	1a	3173	1/1	0.76	0.18	75,75,75,75	0
56	MG	1A	3506	1/1	0.76	0.19	118,118,118,118	0
56	MG	2a	3070	1/1	0.77	0.09	87,87,87,87	0
56	MG	1A	3234	1/1	0.77	0.43	96,96,96,96	0
56	MG	2A	3087	1/1	0.77	0.11	88,88,88,88	0
56	MG	2A	3246	1/1	0.77	0.21	105,105,105,105	0
56	MG	1A	3181	1/1	0.77	0.14	78,78,78,78	0
56	MG	1A	3316	1/1	0.77	0.38	83,83,83,83	0
56	MG	1A	3676	1/1	0.77	0.38	84,84,84,84	0
56	MG	1A	3447	1/1	0.77	0.18	91,91,91,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3022	1/1	0.77	0.27	96,96,96,96	0
56	MG	1a	3020	1/1	0.77	0.21	74,74,74,74	0
56	MG	1A	3157	1/1	0.77	0.16	92,92,92,92	0
56	MG	1A	3518	1/1	0.77	0.20	97,97,97,97	0
56	MG	2A	3303	1/1	0.77	0.16	98,98,98,98	0
56	MG	1A	3104	1/1	0.77	0.17	90,90,90,90	0
56	MG	2a	3061	1/1	0.77	0.08	92,92,92,92	0
56	MG	1a	3033	1/1	0.77	0.21	87,87,87,87	0
56	MG	2a	3064	1/1	0.77	0.16	99,99,99,99	0
56	MG	1A	3137	1/1	0.77	0.28	82,82,82,82	0
56	MG	1A	3145	1/1	0.77	0.31	93,93,93,93	0
56	MG	1a	3211	1/1	0.78	0.33	77,77,77,77	0
56	MG	1a	3134	1/1	0.78	0.07	77,77,77,77	0
56	MG	1A	3584	1/1	0.78	0.12	92,92,92,92	0
56	MG	2A	3152	1/1	0.78	0.11	85,85,85,85	0
56	MG	2A	3170	1/1	0.78	0.21	95,95,95,95	0
56	MG	1A	3265	1/1	0.78	0.31	65,65,65,65	0
56	MG	2a	3154	1/1	0.78	0.11	101,101,101,101	0
56	MG	1A	3429	1/1	0.78	0.43	87,87,87,87	0
56	MG	1A	3168	1/1	0.78	0.23	78,78,78,78	0
56	MG	1A	3444	1/1	0.78	0.17	83,83,83,83	0
56	MG	1A	3125	1/1	0.78	0.22	77,77,77,77	0
56	MG	2a	3080	1/1	0.78	0.16	85,85,85,85	0
56	MG	1A	3122	1/1	0.78	0.23	77,77,77,77	0
56	MG	2a	3026	1/1	0.78	0.22	90,90,90,90	0
56	MG	1a	3210	1/1	0.78	0.28	91,91,91,91	0
56	MG	2A	3244	1/1	0.78	0.15	90,90,90,90	0
56	MG	1A	3123	1/1	0.79	0.10	93,93,93,93	0
56	MG	1A	3540	1/1	0.79	0.19	94,94,94,94	0
56	MG	2a	3107	1/1	0.79	0.08	106,106,106,106	0
56	MG	1a	3187	1/1	0.79	0.31	78,78,78,78	0
56	MG	2A	3068	1/1	0.79	0.21	106,106,106,106	0
56	MG	2a	3024	1/1	0.79	0.17	90,90,90,90	0
56	MG	1A	3214	1/1	0.79	0.44	96,96,96,96	0
56	MG	1a	3018	1/1	0.79	0.19	74,74,74,74	0
56	MG	1A	3618	1/1	0.79	0.17	98,98,98,98	0
56	MG	1a	3126	1/1	0.79	0.16	100,100,100,100	0
56	MG	1a	3130	1/1	0.79	0.26	99,99,99,99	0
56	MG	2a	3136	1/1	0.79	0.19	85,85,85,85	0
56	MG	1A	3242	1/1	0.79	0.25	78,78,78,78	0
56	MG	2a	3063	1/1	0.79	0.15	83,83,83,83	0
56	MG	1A	3248	1/1	0.79	0.25	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3119	1/1	0.79	0.28	90,90,90,90	0
56	MG	1A	3250	1/1	0.79	0.34	94,94,94,94	0
56	MG	1A	3170	1/1	0.79	0.27	99,99,99,99	0
56	MG	1a	3223	1/1	0.79	0.34	84,84,84,84	0
56	MG	2A	3313	1/1	0.79	0.23	96,96,96,96	0
56	MG	1A	3319	1/1	0.79	0.32	100,100,100,100	0
56	MG	1A	3401	1/1	0.79	0.31	90,90,90,90	0
56	MG	2A	3153	1/1	0.79	0.27	81,81,81,81	0
56	MG	1A	3144	1/1	0.79	0.16	85,85,85,85	0
56	MG	1A	3409	1/1	0.79	0.33	70,70,70,70	0
56	MG	1A	3663	1/1	0.79	0.28	89,89,89,89	0
56	MG	1a	3168	1/1	0.79	0.10	111,111,111,111	0
56	MG	2a	3093	1/1	0.79	0.42	87,87,87,87	0
56	MG	1a	3172	1/1	0.79	0.23	90,90,90,90	0
56	MG	2A	3209	1/1	0.79	0.32	83,83,83,83	0
56	MG	2a	3096	1/1	0.80	0.41	84,84,84,84	0
56	MG	2a	3097	1/1	0.80	0.23	89,89,89,89	0
56	MG	2A	3017	1/1	0.80	0.20	98,98,98,98	0
56	MG	1A	3042	1/1	0.80	0.21	64,64,64,64	0
56	MG	1A	3378	1/1	0.80	0.37	73,73,73,73	0
56	MG	2a	3105	1/1	0.80	0.36	95,95,95,95	0
56	MG	1a	3010	1/1	0.80	0.28	85,85,85,85	0
56	MG	1a	3083	1/1	0.80	0.24	93,93,93,93	0
56	MG	2a	3012	1/1	0.80	0.10	79,79,79,79	0
56	MG	1A	3380	1/1	0.80	0.24	67,67,67,67	0
56	MG	2A	3044	1/1	0.80	0.22	78,78,78,78	0
56	MG	1a	3174	1/1	0.80	0.12	87,87,87,87	0
56	MG	2A	3048	1/1	0.80	0.19	83,83,83,83	0
56	MG	1a	3111	1/1	0.80	0.33	103,103,103,103	0
56	MG	1a	3115	1/1	0.80	0.19	89,89,89,89	0
56	MG	1a	3116	1/1	0.80	0.18	90,90,90,90	0
56	MG	2a	3135	1/1	0.80	0.16	108,108,108,108	0
56	MG	1A	3386	1/1	0.80	0.46	68,68,68,68	0
56	MG	2A	3282	1/1	0.80	0.14	87,87,87,87	0
56	MG	1A	3583	1/1	0.80	0.14	88,88,88,88	0
56	MG	1A	3517	1/1	0.80	0.23	77,77,77,77	0
56	MG	1a	3030	1/1	0.80	0.22	105,105,105,105	0
56	MG	2a	3067	1/1	0.80	0.09	112,112,112,112	0
56	MG	1A	3132	1/1	0.80	0.27	82,82,82,82	0
56	MG	1A	3352	1/1	0.80	0.33	95,95,95,95	0
56	MG	1A	3036	1/1	0.80	0.25	99,99,99,99	0
56	MG	1A	3139	1/1	0.80	0.21	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3374	1/1	0.80	0.19	63,63,63,63	0
56	MG	1a	3226	1/1	0.80	0.25	89,89,89,89	0
56	MG	1a	3233	1/1	0.80	0.23	76,76,76,76	0
56	MG	2A	3318	1/1	0.80	0.17	87,87,87,87	0
56	MG	2a	3088	1/1	0.80	0.29	97,97,97,97	0
56	MG	1a	3054	1/1	0.80	0.24	85,85,85,85	0
56	MG	1a	3154	1/1	0.80	0.32	78,78,78,78	0
56	MG	2A	3159	1/1	0.80	0.23	91,91,91,91	0
56	MG	1A	3140	1/1	0.80	0.30	89,89,89,89	0
56	MG	2A	3281	1/1	0.81	0.21	88,88,88,88	0
56	MG	1a	3207	1/1	0.81	0.20	96,96,96,96	0
56	MG	2A	3287	1/1	0.81	0.13	83,83,83,83	0
56	MG	2A	3031	1/1	0.81	0.27	100,100,100,100	0
56	MG	2a	3059	1/1	0.81	0.09	79,79,79,79	0
56	MG	1a	3165	1/1	0.81	0.12	87,87,87,87	0
56	MG	2A	3148	1/1	0.81	0.14	96,96,96,96	0
56	MG	2A	3296	1/1	0.81	0.49	102,102,102,102	0
56	MG	1A	3015	1/1	0.81	0.15	86,86,86,86	0
56	MG	1A	3324	1/1	0.81	0.25	67,67,67,67	0
56	MG	1A	3367	1/1	0.81	0.23	104,104,104,104	0
56	MG	2A	3308	1/1	0.81	0.12	103,103,103,103	0
56	MG	2A	3166	1/1	0.81	0.25	79,79,79,79	0
56	MG	1A	3368	1/1	0.81	0.23	99,99,99,99	0
56	MG	1a	3082	1/1	0.81	0.13	75,75,75,75	0
56	MG	1a	3180	1/1	0.81	0.16	90,90,90,90	0
56	MG	1a	3016	1/1	0.81	0.14	87,87,87,87	0
56	MG	2A	3079	1/1	0.81	0.13	89,89,89,89	0
56	MG	2A	3080	1/1	0.81	0.17	80,80,80,80	0
56	MG	1a	3039	1/1	0.81	0.28	80,80,80,80	0
56	MG	1a	3098	1/1	0.81	0.13	87,87,87,87	0
56	MG	2A	3226	1/1	0.81	0.15	73,73,73,73	0
56	MG	2A	3012	1/1	0.81	0.11	92,92,92,92	0
56	MG	1a	3040	1/1	0.81	0.15	89,89,89,89	0
56	MG	2a	3002	1/1	0.81	0.22	98,98,98,98	0
56	MG	1A	3528	1/1	0.81	0.23	78,78,78,78	0
56	MG	2A	3249	1/1	0.81	0.10	81,81,81,81	0
56	MG	2A	3100	1/1	0.81	0.23	86,86,86,86	0
56	MG	1A	3626	1/1	0.81	0.20	86,86,86,86	0
56	MG	1A	3254	1/1	0.81	0.32	78,78,78,78	0
56	MG	2a	3178	1/1	0.81	0.36	96,96,96,96	0
56	MG	2a	3101	1/1	0.81	0.18	101,101,101,101	0
56	MG	1A	3261	1/1	0.82	0.19	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3092	1/1	0.82	0.22	99,99,99,99	0
56	MG	2a	3007	1/1	0.82	0.17	99,99,99,99	0
56	MG	1A	3330	1/1	0.82	0.39	96,96,96,96	0
56	MG	1a	3050	1/1	0.82	0.11	80,80,80,80	0
56	MG	1A	3241	1/1	0.82	0.25	68,68,68,68	0
56	MG	2a	3018	1/1	0.82	0.13	71,71,71,71	0
56	MG	1A	3612	1/1	0.82	0.15	95,95,95,95	0
56	MG	2A	3125	1/1	0.82	0.28	88,88,88,88	0
56	MG	2A	3280	1/1	0.82	0.15	94,94,94,94	0
56	MG	2A	3130	1/1	0.82	0.30	90,90,90,90	0
56	MG	2A	3024	1/1	0.82	0.17	95,95,95,95	0
56	MG	2A	3137	1/1	0.82	0.13	91,91,91,91	0
56	MG	1A	3549	1/1	0.82	0.24	83,83,83,83	0
56	MG	2a	3127	1/1	0.82	0.14	100,100,100,100	0
56	MG	2a	3129	1/1	0.82	0.16	92,92,92,92	0
56	MG	1A	3552	1/1	0.82	0.19	100,100,100,100	0
56	MG	2A	3142	1/1	0.82	0.14	81,81,81,81	0
56	MG	2A	3143	1/1	0.82	0.15	93,93,93,93	0
56	MG	2A	3027	1/1	0.82	0.11	87,87,87,87	0
56	MG	1A	3016	1/1	0.82	0.27	66,66,66,66	0
56	MG	2A	3034	1/1	0.82	0.21	71,71,71,71	0
56	MG	2a	3068	1/1	0.82	0.08	83,83,83,83	0
56	MG	1A	3019	1/1	0.82	0.14	81,81,81,81	0
56	MG	1a	3080	1/1	0.82	0.32	88,88,88,88	0
56	MG	2a	3071	1/1	0.82	0.13	88,88,88,88	0
56	MG	2a	3072	1/1	0.82	0.15	107,107,107,107	0
56	MG	1A	3128	1/1	0.82	0.12	75,75,75,75	0
56	MG	1a	3023	1/1	0.82	0.20	87,87,87,87	0
56	MG	1A	3065	1/1	0.82	0.14	71,71,71,71	0
56	MG	2a	3157	1/1	0.82	0.09	114,114,114,114	0
56	MG	1a	3215	1/1	0.82	0.27	84,84,84,84	0
56	MG	1a	3217	1/1	0.82	0.24	85,85,85,85	0
56	MG	2A	3324	1/1	0.82	0.08	83,83,83,83	0
56	MG	2A	3204	1/1	0.82	0.31	90,90,90,90	0
56	MG	1A	3087	1/1	0.82	0.20	79,79,79,79	0
56	MG	1A	3400	1/1	0.82	0.53	90,90,90,90	0
56	MG	1A	3364	1/1	0.82	0.24	96,96,96,96	0
56	MG	1A	3099	1/1	0.82	0.10	77,77,77,77	0
56	MG	1A	3530	1/1	0.82	0.22	79,79,79,79	0
56	MG	1A	3557	1/1	0.83	0.25	89,89,89,89	0
56	MG	1A	3505	1/1	0.83	0.14	70,70,70,70	0
56	MG	1A	3560	1/1	0.83	0.25	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3052	1/1	0.83	0.18	77,77,77,77	0
56	MG	1A	3299	1/1	0.83	0.37	90,90,90,90	0
56	MG	2A	3314	1/1	0.83	0.17	94,94,94,94	0
56	MG	1a	3101	1/1	0.83	0.40	88,88,88,88	0
56	MG	2A	3149	1/1	0.83	0.19	84,84,84,84	0
56	MG	1a	3107	1/1	0.83	0.31	84,84,84,84	0
56	MG	2A	3321	1/1	0.83	0.10	101,101,101,101	0
56	MG	1A	3301	1/1	0.83	0.25	85,85,85,85	0
56	MG	2A	3029	1/1	0.83	0.21	94,94,94,94	0
56	MG	1A	3313	1/1	0.83	0.21	72,72,72,72	0
56	MG	2a	3104	1/1	0.83	0.10	100,100,100,100	0
56	MG	2A	3033	1/1	0.83	0.10	81,81,81,81	0
56	MG	2A	3176	1/1	0.83	0.22	89,89,89,89	0
56	MG	1A	3390	1/1	0.83	0.34	87,87,87,87	0
56	MG	1A	3653	1/1	0.83	0.18	95,95,95,95	0
56	MG	1A	3449	1/1	0.83	0.24	76,76,76,76	0
56	MG	1a	3124	1/1	0.83	0.20	70,70,70,70	0
56	MG	2a	3119	1/1	0.83	0.16	107,107,107,107	0
56	MG	2a	3005	1/1	0.83	0.20	96,96,96,96	0
56	MG	1a	3202	1/1	0.83	0.21	89,89,89,89	0
56	MG	1a	3203	1/1	0.83	0.06	105,105,105,105	0
56	MG	1A	3235	1/1	0.83	0.36	73,73,73,73	0
56	MG	2A	3216	1/1	0.83	0.09	87,87,87,87	0
56	MG	2A	3219	1/1	0.83	0.14	80,80,80,80	0
56	MG	2A	3220	1/1	0.83	0.32	74,74,74,74	0
56	MG	1a	3045	1/1	0.83	0.19	85,85,85,85	0
56	MG	1a	3046	1/1	0.83	0.23	73,73,73,73	0
56	MG	1a	3049	1/1	0.83	0.12	87,87,87,87	0
56	MG	1A	3363	1/1	0.83	0.27	79,79,79,79	0
56	MG	1A	3595	1/1	0.83	0.25	69,69,69,69	0
56	MG	2a	3143	1/1	0.83	0.15	107,107,107,107	0
56	MG	2A	3247	1/1	0.83	0.19	101,101,101,101	0
56	MG	1a	3216	1/1	0.83	0.15	81,81,81,81	0
56	MG	1a	3145	1/1	0.83	0.36	97,97,97,97	0
56	MG	2A	3260	1/1	0.83	0.23	87,87,87,87	0
56	MG	1a	3218	1/1	0.83	0.20	80,80,80,80	0
56	MG	2A	3265	1/1	0.83	0.20	93,93,93,93	0
56	MG	1a	3222	1/1	0.83	0.16	91,91,91,91	0
56	MG	1A	3147	1/1	0.83	0.22	86,86,86,86	0
56	MG	1A	3150	1/1	0.83	0.12	91,91,91,91	0
56	MG	2A	3114	1/1	0.83	0.16	79,79,79,79	0
56	MG	1a	3062	1/1	0.83	0.09	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3267	1/1	0.83	0.43	76,76,76,76	0
56	MG	2a	3168	1/1	0.83	0.15	112,112,112,112	0
56	MG	2A	3290	1/1	0.83	0.13	94,94,94,94	0
56	MG	2A	3126	1/1	0.83	0.14	80,80,80,80	0
56	MG	1A	3278	1/1	0.83	0.26	59,59,59,59	0
56	MG	1A	3230	1/1	0.83	0.56	72,72,72,72	0
56	MG	2A	3009	1/1	0.83	0.21	89,89,89,89	0
56	MG	1a	3163	1/1	0.84	0.36	66,66,66,66	0
56	MG	2A	3007	1/1	0.84	0.33	80,80,80,80	0
56	MG	2A	3300	1/1	0.84	0.21	79,79,79,79	0
56	MG	1A	3205	1/1	0.84	0.17	78,78,78,78	0
56	MG	2A	3011	1/1	0.84	0.09	87,87,87,87	0
56	MG	1a	3070	1/1	0.84	0.36	85,85,85,85	0
56	MG	2a	3089	1/1	0.84	0.36	86,86,86,86	0
56	MG	2A	3307	1/1	0.84	0.09	79,79,79,79	0
56	MG	2A	3013	1/1	0.84	0.15	79,79,79,79	0
56	MG	2A	3309	1/1	0.84	0.18	85,85,85,85	0
56	MG	2A	3146	1/1	0.84	0.14	79,79,79,79	0
56	MG	1a	3072	1/1	0.84	0.17	94,94,94,94	0
56	MG	1A	3508	1/1	0.84	0.16	86,86,86,86	0
56	MG	1A	3143	1/1	0.84	0.36	84,84,84,84	0
56	MG	1A	3515	1/1	0.84	0.32	63,63,63,63	0
56	MG	1A	3263	1/1	0.84	0.42	78,78,78,78	0
56	MG	1a	3092	1/1	0.84	0.12	85,85,85,85	0
56	MG	1a	3184	1/1	0.84	0.24	71,71,71,71	0
56	MG	1a	3019	1/1	0.84	0.16	96,96,96,96	0
56	MG	1A	3431	1/1	0.84	0.23	76,76,76,76	0
56	MG	1A	3044	1/1	0.84	0.12	89,89,89,89	0
56	MG	2A	3187	1/1	0.84	0.16	81,81,81,81	0
56	MG	1A	3520	1/1	0.84	0.18	88,88,88,88	0
56	MG	1A	3322	1/1	0.84	0.19	92,92,92,92	0
56	MG	1A	3058	1/1	0.84	0.18	80,80,80,80	0
56	MG	2a	3120	1/1	0.84	0.13	103,103,103,103	0
56	MG	1a	3201	1/1	0.84	0.09	93,93,93,93	0
56	MG	2a	3004	1/1	0.84	0.42	98,98,98,98	0
56	MG	1A	3244	1/1	0.84	0.20	81,81,81,81	0
56	MG	1A	3531	1/1	0.84	0.20	92,92,92,92	0
56	MG	1A	3246	1/1	0.84	0.32	78,78,78,78	0
56	MG	2A	3070	1/1	0.84	0.10	74,74,74,74	0
56	MG	1a	3208	1/1	0.84	0.19	80,80,80,80	0
56	MG	1A	3283	1/1	0.84	0.34	58,58,58,58	0
56	MG	2A	3222	1/1	0.84	0.27	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3125	1/1	0.84	0.19	106,106,106,106	0
56	MG	1A	3285	1/1	0.84	0.26	56,56,56,56	0
56	MG	2a	3140	1/1	0.84	0.16	88,88,88,88	0
56	MG	1A	3464	1/1	0.84	0.18	73,73,73,73	0
56	MG	2A	3086	1/1	0.84	0.16	78,78,78,78	0
56	MG	2a	3037	1/1	0.84	0.12	106,106,106,106	0
56	MG	1A	3469	1/1	0.84	0.17	84,84,84,84	0
56	MG	2a	3055	1/1	0.84	0.18	95,95,95,95	0
56	MG	2a	3057	1/1	0.84	0.21	74,74,74,74	0
56	MG	1A	3222	1/1	0.84	0.29	64,64,64,64	0
56	MG	2A	3254	1/1	0.84	0.15	78,78,78,78	0
56	MG	2A	3091	1/1	0.84	0.14	74,74,74,74	0
56	MG	1A	3160	1/1	0.84	0.26	76,76,76,76	0
56	MG	1A	3360	1/1	0.84	0.32	68,68,68,68	0
56	MG	1a	3220	1/1	0.84	0.40	80,80,80,80	0
56	MG	2A	3099	1/1	0.84	0.14	89,89,89,89	0
56	MG	1A	3192	1/1	0.84	0.19	74,74,74,74	0
56	MG	1A	3572	1/1	0.84	0.10	85,85,85,85	0
56	MG	1a	3058	1/1	0.84	0.11	75,75,75,75	0
56	MG	1A	3408	1/1	0.84	0.19	96,96,96,96	0
56	MG	1A	3670	1/1	0.84	0.25	76,76,76,76	0
56	MG	1A	3198	1/1	0.84	0.12	83,83,83,83	0
56	MG	2A	3131	1/1	0.84	0.29	95,95,95,95	0
56	MG	1A	3134	1/1	0.85	0.19	63,63,63,63	0
56	MG	2a	3017	1/1	0.85	0.25	89,89,89,89	0
56	MG	1A	3279	1/1	0.85	0.31	82,82,82,82	0
56	MG	1A	3417	1/1	0.85	0.22	79,79,79,79	0
56	MG	1A	3199	1/1	0.85	0.19	70,70,70,70	0
56	MG	1a	3234	1/1	0.85	0.19	85,85,85,85	0
56	MG	2a	3028	1/1	0.85	0.16	85,85,85,85	0
56	MG	2a	3033	1/1	0.85	0.13	86,86,86,86	0
56	MG	2a	3034	1/1	0.85	0.16	79,79,79,79	0
56	MG	1A	3202	1/1	0.85	0.30	73,73,73,73	0
56	MG	1a	3237	1/1	0.85	0.15	106,106,106,106	0
56	MG	2a	3049	1/1	0.85	0.23	79,79,79,79	0
56	MG	1A	3328	1/1	0.85	0.17	94,94,94,94	0
56	MG	1A	3098	1/1	0.85	0.12	80,80,80,80	0
56	MG	2A	3188	1/1	0.85	0.18	92,92,92,92	0
56	MG	1a	3117	1/1	0.85	0.24	83,83,83,83	0
56	MG	2A	3193	1/1	0.85	0.12	86,86,86,86	0
56	MG	1A	3331	1/1	0.85	0.19	75,75,75,75	0
56	MG	1A	3661	1/1	0.85	0.22	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3059	1/1	0.85	0.12	81,81,81,81	0
56	MG	1A	3024	1/1	0.85	0.15	83,83,83,83	0
56	MG	1A	3116	1/1	0.85	0.14	113,113,113,113	0
56	MG	1a	3128	1/1	0.85	0.26	98,98,98,98	0
56	MG	2A	3111	1/1	0.85	0.08	81,81,81,81	0
56	MG	1a	3055	1/1	0.85	0.10	83,83,83,83	0
56	MG	1A	3346	1/1	0.85	0.36	92,92,92,92	0
56	MG	1A	3302	1/1	0.85	0.30	59,59,59,59	0
56	MG	1A	3355	1/1	0.85	0.12	68,68,68,68	0
56	MG	2A	3229	1/1	0.85	0.17	90,90,90,90	0
56	MG	1A	3308	1/1	0.85	0.14	80,80,80,80	0
56	MG	2A	3234	1/1	0.85	0.09	84,84,84,84	0
56	MG	1A	3404	1/1	0.85	0.27	62,62,62,62	0
56	MG	1A	3608	1/1	0.85	0.10	87,87,87,87	0
56	MG	2a	3086	1/1	0.85	0.18	87,87,87,87	0
56	MG	1A	3536	1/1	0.85	0.20	74,74,74,74	0
56	MG	1A	3405	1/1	0.85	0.25	78,78,78,78	0
56	MG	2A	3253	1/1	0.85	0.13	74,74,74,74	0
56	MG	1a	3022	1/1	0.85	0.16	89,89,89,89	0
56	MG	2A	3039	1/1	0.85	0.15	88,88,88,88	0
56	MG	2a	3170	1/1	0.85	0.15	80,80,80,80	0
56	MG	1a	3160	1/1	0.85	0.26	76,76,76,76	0
56	MG	1A	3194	1/1	0.85	0.08	72,72,72,72	0
56	MG	1A	3197	1/1	0.85	0.33	72,72,72,72	0
56	MG	2A	3274	1/1	0.85	0.17	92,92,92,92	0
56	MG	1A	3556	1/1	0.85	0.19	81,81,81,81	0
56	MG	1A	3381	1/1	0.86	0.23	68,68,68,68	0
56	MG	1a	3066	1/1	0.86	0.10	101,101,101,101	0
56	MG	1A	3551	1/1	0.86	0.13	97,97,97,97	0
56	MG	1A	3358	1/1	0.86	0.24	83,83,83,83	0
56	MG	2A	3243	1/1	0.86	0.10	88,88,88,88	0
56	MG	1A	3554	1/1	0.86	0.08	109,109,109,109	0
56	MG	1a	3151	1/1	0.86	0.20	80,80,80,80	0
56	MG	1A	3555	1/1	0.86	0.21	80,80,80,80	0
56	MG	1A	3188	1/1	0.86	0.28	91,91,91,91	0
56	MG	2a	3008	1/1	0.86	0.27	85,85,85,85	0
56	MG	2a	3009	1/1	0.86	0.31	84,84,84,84	0
56	MG	1A	3023	1/1	0.86	0.19	88,88,88,88	0
56	MG	1A	3129	1/1	0.86	0.18	93,93,93,93	0
56	MG	2A	3255	1/1	0.86	0.20	91,91,91,91	0
56	MG	1A	3232	1/1	0.86	0.32	52,52,52,52	0
56	MG	2A	3054	1/1	0.86	0.32	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3640	1/1	0.86	0.20	81,81,81,81	0
56	MG	2A	3150	1/1	0.86	0.26	88,88,88,88	0
56	MG	1A	3007	1/1	0.86	0.11	91,91,91,91	0
56	MG	2A	3276	1/1	0.86	0.25	82,82,82,82	0
56	MG	1A	3647	1/1	0.86	0.12	93,93,93,93	0
56	MG	1a	3103	1/1	0.86	0.30	79,79,79,79	0
56	MG	2A	3162	1/1	0.86	0.15	77,77,77,77	0
56	MG	2A	3164	1/1	0.86	0.18	82,82,82,82	0
56	MG	2a	3124	1/1	0.86	0.19	83,83,83,83	0
56	MG	2a	3042	1/1	0.86	0.12	82,82,82,82	0
56	MG	2a	3043	1/1	0.86	0.13	70,70,70,70	0
56	MG	2a	3047	1/1	0.86	0.30	83,83,83,83	0
56	MG	1a	3232	1/1	0.86	0.27	76,76,76,76	0
56	MG	2A	3168	1/1	0.86	0.21	98,98,98,98	0
56	MG	1a	3171	1/1	0.86	0.21	86,86,86,86	0
56	MG	2a	3056	1/1	0.86	0.09	97,97,97,97	0
56	MG	1A	3365	1/1	0.86	0.19	75,75,75,75	0
56	MG	2a	3058	1/1	0.86	0.28	93,93,93,93	0
56	MG	2A	3182	1/1	0.86	0.11	81,81,81,81	0
56	MG	2A	3183	1/1	0.86	0.19	80,80,80,80	0
56	MG	1A	3463	1/1	0.86	0.17	75,75,75,75	0
56	MG	2a	3145	1/1	0.86	0.14	90,90,90,90	0
56	MG	1a	3114	1/1	0.86	0.17	86,86,86,86	0
56	MG	1A	3210	1/1	0.86	0.14	71,71,71,71	0
56	MG	1A	3581	1/1	0.86	0.12	84,84,84,84	0
56	MG	1A	3268	1/1	0.86	0.19	68,68,68,68	0
56	MG	2A	3196	1/1	0.86	0.34	81,81,81,81	0
56	MG	1A	3269	1/1	0.86	0.27	69,69,69,69	0
56	MG	1A	3277	1/1	0.86	0.41	73,73,73,73	0
56	MG	1A	3314	1/1	0.86	0.26	54,54,54,54	0
56	MG	2A	3098	1/1	0.86	0.27	79,79,79,79	0
56	MG	1A	3056	1/1	0.86	0.17	80,80,80,80	0
56	MG	2a	3073	1/1	0.86	0.23	113,113,113,113	0
56	MG	2A	3215	1/1	0.86	0.22	86,86,86,86	0
56	MG	1A	3126	1/1	0.86	0.17	76,76,76,76	0
56	MG	1A	3678	1/1	0.86	0.25	75,75,75,75	0
56	MG	1a	3200	1/1	0.86	0.26	83,83,83,83	0
56	MG	1A	3504	1/1	0.86	0.24	77,77,77,77	0
56	MG	1A	3545	1/1	0.86	0.13	67,67,67,67	0
56	MG	2A	3225	1/1	0.86	0.36	75,75,75,75	0
56	MG	2a	3011	1/1	0.87	0.20	101,101,101,101	0
56	MG	1A	3262	1/1	0.87	0.30	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3013	1/1	0.87	0.28	85,85,85,85	0
56	MG	1A	3659	1/1	0.87	0.28	80,80,80,80	0
56	MG	1A	3108	1/1	0.87	0.16	84,84,84,84	0
56	MG	1A	3152	1/1	0.87	0.16	84,84,84,84	0
56	MG	1A	3370	1/1	0.87	0.22	82,82,82,82	0
56	MG	1a	3085	1/1	0.87	0.40	89,89,89,89	0
56	MG	1a	3146	1/1	0.87	0.30	79,79,79,79	0
56	MG	1a	3205	1/1	0.87	0.10	102,102,102,102	0
56	MG	2A	3194	1/1	0.87	0.12	85,85,85,85	0
56	MG	2A	3108	1/1	0.87	0.11	72,72,72,72	0
56	MG	1A	3673	1/1	0.87	0.22	77,77,77,77	0
56	MG	1a	3093	1/1	0.87	0.17	88,88,88,88	0
56	MG	2A	3298	1/1	0.87	0.09	76,76,76,76	0
56	MG	1A	3062	1/1	0.87	0.14	92,92,92,92	0
56	MG	1A	3303	1/1	0.87	0.30	78,78,78,78	0
56	MG	1a	3099	1/1	0.87	0.13	90,90,90,90	0
56	MG	2A	3213	1/1	0.87	0.16	90,90,90,90	0
56	MG	1a	3213	1/1	0.87	0.16	117,117,117,117	0
56	MG	1a	3100	1/1	0.87	0.23	78,78,78,78	0
56	MG	1A	3218	1/1	0.87	0.23	96,96,96,96	0
56	MG	1A	3350	1/1	0.87	0.35	76,76,76,76	0
56	MG	1a	3105	1/1	0.87	0.12	86,86,86,86	0
56	MG	1A	3022	1/1	0.87	0.09	83,83,83,83	0
56	MG	2A	3315	1/1	0.87	0.13	103,103,103,103	0
56	MG	1A	3182	1/1	0.87	0.14	72,72,72,72	0
56	MG	1A	3225	1/1	0.87	0.27	65,65,65,65	0
56	MG	1a	3057	1/1	0.87	0.26	92,92,92,92	0
56	MG	2a	3141	1/1	0.87	0.08	82,82,82,82	0
56	MG	1a	3224	1/1	0.87	0.26	77,77,77,77	0
56	MG	2A	3232	1/1	0.87	0.22	53,53,53,53	0
56	MG	2A	3062	1/1	0.87	0.17	84,84,84,84	0
56	MG	1A	3642	1/1	0.87	0.24	74,74,74,74	0
56	MG	1A	3227	1/1	0.87	0.19	72,72,72,72	0
56	MG	2A	3329	1/1	0.87	0.14	100,100,100,100	0
56	MG	2A	3245	1/1	0.87	0.12	94,94,94,94	0
56	MG	1A	3588	1/1	0.87	0.20	82,82,82,82	0
56	MG	2a	3153	1/1	0.87	0.10	106,106,106,106	0
56	MG	2A	3076	1/1	0.87	0.11	77,77,77,77	0
56	MG	2A	3156	1/1	0.87	0.16	69,69,69,69	0
56	MG	2A	3347	1/1	0.87	0.41	86,86,86,86	0
56	MG	2A	3348	1/1	0.87	0.18	79,79,79,79	0
56	MG	1A	3034	1/1	0.87	0.10	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3083	1/1	0.87	0.08	76,76,76,76	0
56	MG	2a	3085	1/1	0.87	0.33	83,83,83,83	0
56	MG	1a	3235	1/1	0.87	0.08	93,93,93,93	0
56	MG	1A	3189	1/1	0.87	0.09	78,78,78,78	0
56	MG	1a	3067	1/1	0.87	0.15	80,80,80,80	0
56	MG	1A	3203	1/1	0.87	0.29	74,74,74,74	0
56	MG	1A	3083	1/1	0.87	0.21	71,71,71,71	0
56	MG	2A	3264	1/1	0.87	0.07	91,91,91,91	0
56	MG	2a	3179	1/1	0.87	0.14	106,106,106,106	0
56	MG	2A	3173	1/1	0.87	0.20	70,70,70,70	0
56	MG	2A	3285	1/1	0.88	0.20	82,82,82,82	0
56	MG	1a	3053	1/1	0.88	0.11	79,79,79,79	0
56	MG	1A	3176	1/1	0.88	0.31	95,95,95,95	0
56	MG	1A	3229	1/1	0.88	0.21	74,74,74,74	0
56	MG	2A	3291	1/1	0.88	0.16	87,87,87,87	0
56	MG	1A	3297	1/1	0.88	0.23	77,77,77,77	0
56	MG	1A	3343	1/1	0.88	0.20	72,72,72,72	0
56	MG	1A	3466	1/1	0.88	0.09	92,92,92,92	0
56	MG	1A	3389	1/1	0.88	0.34	75,75,75,75	0
56	MG	1A	3054	1/1	0.88	0.18	86,86,86,86	0
56	MG	2A	3160	1/1	0.88	0.19	88,88,88,88	0
56	MG	1a	3065	1/1	0.88	0.14	87,87,87,87	0
56	MG	1A	3471	1/1	0.88	0.10	88,88,88,88	0
56	MG	1A	3300	1/1	0.88	0.22	77,77,77,77	0
56	MG	1A	3397	1/1	0.88	0.23	83,83,83,83	0
56	MG	2A	3169	1/1	0.88	0.11	79,79,79,79	0
56	MG	2A	3310	1/1	0.88	0.14	91,91,91,91	0
56	MG	1A	3200	1/1	0.88	0.27	63,63,63,63	0
56	MG	2A	3032	1/1	0.88	0.11	78,78,78,78	0
56	MG	1A	3014	1/1	0.88	0.23	93,93,93,93	0
56	MG	2A	3177	1/1	0.88	0.21	74,74,74,74	0
56	MG	1A	3575	1/1	0.88	0.26	83,83,83,83	0
56	MG	1A	3503	1/1	0.88	0.20	90,90,90,90	0
56	MG	1A	3356	1/1	0.88	0.09	61,61,61,61	0
56	MG	2a	3094	1/1	0.88	0.17	89,89,89,89	0
56	MG	1A	3183	1/1	0.88	0.13	74,74,74,74	0
56	MG	1a	3002	1/1	0.88	0.15	83,83,83,83	0
56	MG	2A	3189	1/1	0.88	0.27	89,89,89,89	0
56	MG	1a	3188	1/1	0.88	0.22	81,81,81,81	0
56	MG	1a	3087	1/1	0.88	0.15	100,100,100,100	0
56	MG	2A	3327	1/1	0.88	0.07	96,96,96,96	0
56	MG	2a	3102	1/1	0.88	0.17	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3005	1/1	0.88	0.16	80,80,80,80	0
56	MG	1A	3184	1/1	0.88	0.13	73,73,73,73	0
56	MG	2A	3066	1/1	0.88	0.13	92,92,92,92	0
56	MG	1a	3094	1/1	0.88	0.15	96,96,96,96	0
56	MG	1A	3207	1/1	0.88	0.17	74,74,74,74	0
56	MG	1a	3014	1/1	0.88	0.20	78,78,78,78	0
56	MG	2A	3075	1/1	0.88	0.17	83,83,83,83	0
56	MG	2a	3116	1/1	0.88	0.13	82,82,82,82	0
56	MG	1A	3021	1/1	0.88	0.24	55,55,55,55	0
56	MG	1A	3590	1/1	0.88	0.21	68,68,68,68	0
56	MG	1A	3362	1/1	0.88	0.22	53,53,53,53	0
56	MG	1A	3012	1/1	0.88	0.17	78,78,78,78	0
56	MG	1a	3104	1/1	0.88	0.26	74,74,74,74	0
56	MG	1A	3418	1/1	0.88	0.20	75,75,75,75	0
56	MG	1A	3270	1/1	0.88	0.30	75,75,75,75	0
56	MG	1a	3108	1/1	0.88	0.07	93,93,93,93	0
56	MG	1a	3109	1/1	0.88	0.12	103,103,103,103	0
56	MG	1A	3276	1/1	0.88	0.30	64,64,64,64	0
56	MG	1a	3024	1/1	0.88	0.10	83,83,83,83	0
56	MG	1a	3026	1/1	0.88	0.34	80,80,80,80	0
56	MG	1A	3141	1/1	0.88	0.12	70,70,70,70	0
56	MG	2A	3238	1/1	0.88	0.36	93,93,93,93	0
56	MG	2a	3019	1/1	0.88	0.18	95,95,95,95	0
56	MG	1A	3433	1/1	0.88	0.17	97,97,97,97	0
56	MG	1a	3118	1/1	0.88	0.11	101,101,101,101	0
56	MG	2A	3104	1/1	0.88	0.19	98,98,98,98	0
56	MG	2A	3105	1/1	0.88	0.09	71,71,71,71	0
56	MG	1A	3610	1/1	0.88	0.23	79,79,79,79	0
56	MG	1A	3434	1/1	0.88	0.10	81,81,81,81	0
56	MG	2a	3147	1/1	0.88	0.13	89,89,89,89	0
56	MG	1A	3094	1/1	0.88	0.07	63,63,63,63	0
56	MG	2a	3149	1/1	0.88	0.13	74,74,74,74	0
56	MG	1a	3038	1/1	0.88	0.18	88,88,88,88	0
56	MG	2a	3040	1/1	0.88	0.09	78,78,78,78	0
56	MG	1A	3617	1/1	0.88	0.14	69,69,69,69	0
56	MG	1a	3127	1/1	0.88	0.20	82,82,82,82	0
56	MG	1A	3443	1/1	0.88	0.13	82,82,82,82	0
56	MG	1a	3043	1/1	0.88	0.18	95,95,95,95	0
56	MG	2A	3262	1/1	0.88	0.16	84,84,84,84	0
56	MG	2a	3053	1/1	0.88	0.20	90,90,90,90	0
56	MG	2a	3054	1/1	0.88	0.10	90,90,90,90	0
56	MG	1A	3327	1/1	0.88	0.10	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3095	1/1	0.88	0.16	81,81,81,81	0
56	MG	2A	3267	1/1	0.88	0.19	93,93,93,93	0
56	MG	1A	3539	1/1	0.88	0.14	85,85,85,85	0
56	MG	1A	3633	1/1	0.88	0.11	75,75,75,75	0
56	MG	1A	3030	1/1	0.88	0.20	69,69,69,69	0
56	MG	2A	3005	1/1	0.88	0.10	84,84,84,84	0
56	MG	2A	3145	1/1	0.88	0.19	77,77,77,77	0
56	MG	1A	3133	1/1	0.88	0.23	76,76,76,76	0
56	MG	1A	3652	1/1	0.89	0.27	86,86,86,86	0
56	MG	1A	3498	1/1	0.89	0.07	85,85,85,85	0
56	MG	1A	3500	1/1	0.89	0.18	86,86,86,86	0
56	MG	1A	3410	1/1	0.89	0.22	77,77,77,77	0
56	MG	2A	3195	1/1	0.89	0.30	84,84,84,84	0
56	MG	1A	3577	1/1	0.89	0.12	94,94,94,94	0
56	MG	1A	3333	1/1	0.89	0.25	73,73,73,73	0
56	MG	2A	3202	1/1	0.89	0.22	88,88,88,88	0
56	MG	2A	3203	1/1	0.89	0.20	87,87,87,87	0
56	MG	1a	3129	1/1	0.89	0.15	88,88,88,88	0
56	MG	1A	3580	1/1	0.89	0.11	74,74,74,74	0
56	MG	1A	3666	1/1	0.89	0.12	92,92,92,92	0
56	MG	1A	3416	1/1	0.89	0.23	82,82,82,82	0
56	MG	2A	3211	1/1	0.89	0.18	81,81,81,81	0
56	MG	1A	3369	1/1	0.89	0.24	86,86,86,86	0
56	MG	1a	3064	1/1	0.89	0.17	87,87,87,87	0
56	MG	1A	3334	1/1	0.89	0.19	64,64,64,64	0
56	MG	2a	3095	1/1	0.89	0.28	75,75,75,75	0
56	MG	1a	3227	1/1	0.89	0.22	64,64,64,64	0
56	MG	1A	3585	1/1	0.89	0.24	76,76,76,76	0
56	MG	2A	3346	1/1	0.89	0.17	78,78,78,78	0
56	MG	2A	3101	1/1	0.89	0.09	83,83,83,83	0
56	MG	1A	3420	1/1	0.89	0.34	76,76,76,76	0
56	MG	1A	3680	1/1	0.89	0.28	85,85,85,85	0
56	MG	1A	3373	1/1	0.89	0.23	54,54,54,54	0
56	MG	1A	3009	1/1	0.89	0.09	75,75,75,75	0
56	MG	1A	3100	1/1	0.89	0.27	61,61,61,61	0
56	MG	2A	3231	1/1	0.89	0.19	74,74,74,74	0
56	MG	1A	3027	1/1	0.89	0.33	68,68,68,68	0
56	MG	1A	3167	1/1	0.89	0.13	90,90,90,90	0
56	MG	1A	3131	1/1	0.89	0.09	84,84,84,84	0
56	MG	1A	3442	1/1	0.89	0.10	77,77,77,77	0
56	MG	1A	3091	1/1	0.89	0.24	75,75,75,75	0
56	MG	1A	3385	1/1	0.89	0.14	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2a	3014	1/1	0.89	0.25	89,89,89,89	0
56	MG	2A	3135	1/1	0.89	0.24	78,78,78,78	0
56	MG	2A	3136	1/1	0.89	0.10	71,71,71,71	0
56	MG	2A	3248	1/1	0.89	0.16	85,85,85,85	0
56	MG	1A	3252	1/1	0.89	0.14	73,73,73,73	0
56	MG	1A	3112	1/1	0.89	0.11	66,66,66,66	0
56	MG	2a	3023	1/1	0.89	0.16	80,80,80,80	0
56	MG	2a	3130	1/1	0.89	0.08	74,74,74,74	0
56	MG	1A	3614	1/1	0.89	0.10	89,89,89,89	0
56	MG	2A	3140	1/1	0.89	0.14	81,81,81,81	0
56	MG	1A	3114	1/1	0.89	0.05	93,93,93,93	0
56	MG	2a	3031	1/1	0.89	0.13	109,109,109,109	0
56	MG	1A	3393	1/1	0.89	0.25	82,82,82,82	0
56	MG	1a	3181	1/1	0.89	0.30	66,66,66,66	0
56	MG	1A	3213	1/1	0.89	0.25	66,66,66,66	0
56	MG	1a	3183	1/1	0.89	0.24	78,78,78,78	0
56	MG	1A	3622	1/1	0.89	0.24	91,91,91,91	0
56	MG	1a	3186	1/1	0.89	0.12	85,85,85,85	0
56	MG	2A	3030	1/1	0.89	0.24	81,81,81,81	0
56	MG	2A	3275	1/1	0.89	0.24	81,81,81,81	0
56	MG	2a	3048	1/1	0.89	0.23	94,94,94,94	0
56	MG	1A	3396	1/1	0.89	0.19	99,99,99,99	0
56	MG	1A	3237	1/1	0.89	0.08	74,74,74,74	0
56	MG	1A	3399	1/1	0.89	0.27	68,68,68,68	0
56	MG	2A	3157	1/1	0.89	0.21	70,70,70,70	0
56	MG	1a	3190	1/1	0.89	0.10	95,95,95,95	0
56	MG	1A	3467	1/1	0.89	0.19	73,73,73,73	0
56	MG	1A	3287	1/1	0.89	0.32	80,80,80,80	0
56	MG	1a	3196	1/1	0.89	0.25	85,85,85,85	0
56	MG	1A	3238	1/1	0.89	0.11	60,60,60,60	0
56	MG	1a	3041	1/1	0.89	0.16	81,81,81,81	0
56	MG	1A	3291	1/1	0.89	0.29	79,79,79,79	0
56	MG	1A	3293	1/1	0.89	0.08	78,78,78,78	0
56	MG	1A	3329	1/1	0.89	0.28	77,77,77,77	0
56	MG	2a	3167	1/1	0.89	0.11	101,101,101,101	0
56	MG	1A	3124	1/1	0.89	0.13	86,86,86,86	0
56	MG	1a	3047	1/1	0.89	0.15	82,82,82,82	0
56	MG	2A	3181	1/1	0.89	0.14	90,90,90,90	0
56	MG	1a	3119	1/1	0.89	0.22	88,88,88,88	0
56	MG	2A	3071	1/1	0.89	0.22	75,75,75,75	0
56	MG	2A	3073	1/1	0.89	0.17	85,85,85,85	0
56	MG	1a	3120	1/1	0.89	0.12	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3115	1/1	0.89	0.08	87,87,87,87	0
56	MG	2A	3297	1/1	0.90	0.28	93,93,93,93	0
56	MG	1a	3195	1/1	0.90	0.17	80,80,80,80	0
56	MG	2A	3175	1/1	0.90	0.22	65,65,65,65	0
56	MG	1A	3527	1/1	0.90	0.17	74,74,74,74	0
56	MG	2A	3061	1/1	0.90	0.21	76,76,76,76	0
56	MG	1A	3075	1/1	0.90	0.24	78,78,78,78	0
56	MG	2A	3304	1/1	0.90	0.15	92,92,92,92	0
56	MG	1A	3298	1/1	0.90	0.34	83,83,83,83	0
56	MG	2a	3075	1/1	0.90	0.10	98,98,98,98	0
56	MG	1a	3199	1/1	0.90	0.17	93,93,93,93	0
56	MG	1A	3079	1/1	0.90	0.08	96,96,96,96	0
56	MG	2a	3078	1/1	0.90	0.35	85,85,85,85	0
56	MG	1a	3048	1/1	0.90	0.24	73,73,73,73	0
56	MG	1A	3039	1/1	0.90	0.17	70,70,70,70	0
56	MG	1A	3671	1/1	0.90	0.21	79,79,79,79	0
56	MG	1A	3594	1/1	0.90	0.21	77,77,77,77	0
56	MG	2A	3192	1/1	0.90	0.19	77,77,77,77	0
56	MG	1A	3084	1/1	0.90	0.29	71,71,71,71	0
56	MG	1A	3142	1/1	0.90	0.09	73,73,73,73	0
56	MG	1A	3273	1/1	0.90	0.18	62,62,62,62	0
56	MG	1A	3344	1/1	0.90	0.27	79,79,79,79	0
56	MG	2A	3082	1/1	0.90	0.08	85,85,85,85	0
56	MG	1A	3304	1/1	0.90	0.23	76,76,76,76	0
56	MG	1a	3003	1/1	0.90	0.18	92,92,92,92	0
56	MG	1a	3004	1/1	0.90	0.12	101,101,101,101	0
56	MG	1A	3029	1/1	0.90	0.21	65,65,65,65	0
56	MG	1a	3008	1/1	0.90	0.09	66,66,66,66	0
56	MG	1A	3485	1/1	0.90	0.20	61,61,61,61	0
56	MG	2A	3332	1/1	0.90	0.12	116,116,116,116	0
56	MG	2A	3333	1/1	0.90	0.09	101,101,101,101	0
56	MG	1A	3422	1/1	0.90	0.21	67,67,67,67	0
56	MG	1a	3138	1/1	0.90	0.41	91,91,91,91	0
56	MG	1a	3221	1/1	0.90	0.19	79,79,79,79	0
56	MG	2A	3345	1/1	0.90	0.13	77,77,77,77	0
56	MG	1a	3139	1/1	0.90	0.24	81,81,81,81	0
56	MG	1A	3424	1/1	0.90	0.27	81,81,81,81	0
56	MG	1A	3005	1/1	0.90	0.11	74,74,74,74	0
56	MG	2a	3001	1/1	0.90	0.15	74,74,74,74	0
56	MG	1a	3017	1/1	0.90	0.11	81,81,81,81	0
56	MG	1a	3071	1/1	0.90	0.15	75,75,75,75	0
56	MG	1a	3148	1/1	0.90	0.11	112,112,112,112	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3031	1/1	0.90	0.13	62,62,62,62	0
56	MG	2A	3113	1/1	0.90	0.23	73,73,73,73	0
56	MG	1a	3076	1/1	0.90	0.20	58,58,58,58	0
56	MG	2A	3115	1/1	0.90	0.09	80,80,80,80	0
56	MG	2A	3118	1/1	0.90	0.15	72,72,72,72	0
56	MG	1A	3619	1/1	0.90	0.14	86,86,86,86	0
56	MG	2A	3121	1/1	0.90	0.19	79,79,79,79	0
56	MG	2a	3126	1/1	0.90	0.11	86,86,86,86	0
56	MG	1a	3078	1/1	0.90	0.28	65,65,65,65	0
56	MG	1a	3156	1/1	0.90	0.28	73,73,73,73	0
56	MG	1A	3501	1/1	0.90	0.19	71,71,71,71	0
56	MG	1A	3387	1/1	0.90	0.28	80,80,80,80	0
56	MG	1A	3033	1/1	0.90	0.11	86,86,86,86	0
56	MG	1a	3084	1/1	0.90	0.17	94,94,94,94	0
56	MG	1A	3148	1/1	0.90	0.25	79,79,79,79	0
56	MG	1A	3437	1/1	0.90	0.17	79,79,79,79	0
56	MG	1a	3167	1/1	0.90	0.19	109,109,109,109	0
56	MG	1a	3089	1/1	0.90	0.25	78,78,78,78	0
56	MG	2A	3257	1/1	0.90	0.10	76,76,76,76	0
56	MG	2a	3029	1/1	0.90	0.15	87,87,87,87	0
56	MG	1a	3091	1/1	0.90	0.17	83,83,83,83	0
56	MG	1a	3025	1/1	0.90	0.07	85,85,85,85	0
56	MG	1A	3284	1/1	0.90	0.36	86,86,86,86	0
56	MG	1A	3204	1/1	0.90	0.21	60,60,60,60	0
56	MG	1A	3576	1/1	0.90	0.19	76,76,76,76	0
56	MG	1a	3097	1/1	0.90	0.10	95,95,95,95	0
56	MG	2A	3266	1/1	0.90	0.08	88,88,88,88	0
56	MG	1A	3258	1/1	0.90	0.28	95,95,95,95	0
56	MG	1a	3032	1/1	0.90	0.11	76,76,76,76	0
56	MG	1A	3326	1/1	0.90	0.19	83,83,83,83	0
56	MG	1a	3035	1/1	0.90	0.12	81,81,81,81	0
56	MG	1A	3026	1/1	0.90	0.12	77,77,77,77	0
56	MG	2a	3051	1/1	0.90	0.28	79,79,79,79	0
56	MG	2a	3052	1/1	0.90	0.22	95,95,95,95	0
56	MG	2A	3154	1/1	0.90	0.17	74,74,74,74	0
56	MG	1A	3151	1/1	0.90	0.20	64,64,64,64	0
56	MG	1A	3006	1/1	0.90	0.19	69,69,69,69	0
56	MG	1A	3521	1/1	0.90	0.10	64,64,64,64	0
56	MG	2A	3286	1/1	0.90	0.07	93,93,93,93	0
56	MG	2a	3169	1/1	0.90	0.08	78,78,78,78	0
56	MG	2A	3038	1/1	0.90	0.06	65,65,65,65	0
56	MG	1A	3121	1/1	0.90	0.08	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1a	3192	1/1	0.90	0.14	85,85,85,85	0
56	MG	2a	3174	1/1	0.90	0.20	101,101,101,101	0
56	MG	2A	3045	1/1	0.90	0.21	76,76,76,76	0
56	MG	1a	3193	1/1	0.90	0.22	88,88,88,88	0
56	MG	1A	3586	1/1	0.90	0.30	71,71,71,71	0
56	MG	2A	3053	1/1	0.90	0.13	77,77,77,77	0
56	MG	1A	3228	1/1	0.91	0.13	59,59,59,59	0
56	MG	1A	3672	1/1	0.91	0.27	68,68,68,68	0
56	MG	2A	3057	1/1	0.91	0.12	89,89,89,89	0
56	MG	2A	3172	1/1	0.91	0.20	80,80,80,80	0
56	MG	1A	3164	1/1	0.91	0.22	72,72,72,72	0
56	MG	2A	3174	1/1	0.91	0.14	79,79,79,79	0
56	MG	1a	3059	1/1	0.91	0.06	82,82,82,82	0
56	MG	2a	3074	1/1	0.91	0.18	98,98,98,98	0
56	MG	2A	3305	1/1	0.91	0.12	85,85,85,85	0
56	MG	1a	3204	1/1	0.91	0.12	80,80,80,80	0
56	MG	1A	3038	1/1	0.91	0.13	74,74,74,74	0
56	MG	1A	3255	1/1	0.91	0.18	59,59,59,59	0
56	MG	1A	3206	1/1	0.91	0.17	76,76,76,76	0
56	MG	2A	3072	1/1	0.91	0.15	74,74,74,74	0
56	MG	1A	3679	1/1	0.91	0.09	83,83,83,83	0
56	MG	1a	3131	1/1	0.91	0.10	107,107,107,107	0
56	MG	1a	3132	1/1	0.91	0.07	101,101,101,101	0
56	MG	1A	3320	1/1	0.91	0.11	65,65,65,65	0
56	MG	1A	3321	1/1	0.91	0.17	62,62,62,62	0
56	MG	1a	3136	1/1	0.91	0.23	84,84,84,84	0
56	MG	1A	3452	1/1	0.91	0.18	97,97,97,97	0
56	MG	1A	3135	1/1	0.91	0.16	59,59,59,59	0
56	MG	1a	3069	1/1	0.91	0.10	81,81,81,81	0
56	MG	1A	3085	1/1	0.91	0.16	92,92,92,92	0
56	MG	1A	3605	1/1	0.91	0.09	93,93,93,93	0
56	MG	1A	3461	1/1	0.91	0.12	59,59,59,59	0
56	MG	1a	3073	1/1	0.91	0.23	78,78,78,78	0
56	MG	1A	3609	1/1	0.91	0.10	74,74,74,74	0
56	MG	1a	3150	1/1	0.91	0.14	83,83,83,83	0
56	MG	2A	3206	1/1	0.91	0.13	73,73,73,73	0
56	MG	1A	3260	1/1	0.91	0.34	62,62,62,62	0
56	MG	2A	3096	1/1	0.91	0.07	90,90,90,90	0
56	MG	1A	3236	1/1	0.91	0.42	60,60,60,60	0
56	MG	1a	3079	1/1	0.91	0.18	73,73,73,73	0
56	MG	1A	3070	1/1	0.91	0.10	52,52,52,52	0
56	MG	1A	3088	1/1	0.91	0.08	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3217	1/1	0.91	0.08	82,82,82,82	0
56	MG	1a	3158	1/1	0.91	0.36	81,81,81,81	0
56	MG	1A	3264	1/1	0.91	0.35	67,67,67,67	0
56	MG	1A	3043	1/1	0.91	0.14	74,74,74,74	0
56	MG	2A	3109	1/1	0.91	0.11	93,93,93,93	0
56	MG	2A	3001	1/1	0.91	0.19	75,75,75,75	0
56	MG	2A	3112	1/1	0.91	0.21	89,89,89,89	0
56	MG	1A	3332	1/1	0.91	0.35	77,77,77,77	0
56	MG	2A	3004	1/1	0.91	0.08	91,91,91,91	0
56	MG	1A	3153	1/1	0.91	0.14	72,72,72,72	0
56	MG	2A	3116	1/1	0.91	0.10	91,91,91,91	0
56	MG	1A	3480	1/1	0.91	0.08	104,104,104,104	0
56	MG	2A	3237	1/1	0.91	0.10	92,92,92,92	0
56	MG	2A	3008	1/1	0.91	0.17	79,79,79,79	0
56	MG	1A	3035	1/1	0.91	0.09	70,70,70,70	0
56	MG	2A	3124	1/1	0.91	0.18	86,86,86,86	0
56	MG	1A	3221	1/1	0.91	0.37	79,79,79,79	0
56	MG	1A	3632	1/1	0.91	0.16	63,63,63,63	0
56	MG	2A	3129	1/1	0.91	0.09	73,73,73,73	0
56	MG	2a	3021	1/1	0.91	0.11	101,101,101,101	0
56	MG	2a	3137	1/1	0.91	0.18	81,81,81,81	0
56	MG	1A	3558	1/1	0.91	0.14	97,97,97,97	0
56	MG	1A	3634	1/1	0.91	0.18	83,83,83,83	0
56	MG	1A	3421	1/1	0.91	0.26	68,68,68,68	0
56	MG	1A	3637	1/1	0.91	0.14	100,100,100,100	0
56	MG	1A	3493	1/1	0.91	0.08	69,69,69,69	0
56	MG	1A	3113	1/1	0.91	0.10	75,75,75,75	0
56	MG	1A	3645	1/1	0.91	0.22	82,82,82,82	0
56	MG	1A	3566	1/1	0.91	0.07	93,93,93,93	0
56	MG	1A	3423	1/1	0.91	0.19	78,78,78,78	0
56	MG	1A	3002	1/1	0.91	0.07	72,72,72,72	0
56	MG	1A	3650	1/1	0.91	0.13	90,90,90,90	0
56	MG	1A	3426	1/1	0.91	0.33	72,72,72,72	0
56	MG	1A	3272	1/1	0.91	0.20	49,49,49,49	0
56	MG	2a	3044	1/1	0.91	0.19	86,86,86,86	0
56	MG	1A	3383	1/1	0.91	0.25	69,69,69,69	0
56	MG	1A	3654	1/1	0.91	0.13	89,89,89,89	0
56	MG	2a	3155	1/1	0.91	0.14	84,84,84,84	0
56	MG	2A	3037	1/1	0.91	0.09	75,75,75,75	0
56	MG	1A	3430	1/1	0.91	0.17	61,61,61,61	0
56	MG	2a	3158	1/1	0.91	0.08	116,116,116,116	0
56	MG	2A	3151	1/1	0.91	0.05	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3278	1/1	0.91	0.15	89,89,89,89	0
56	MG	1A	3185	1/1	0.91	0.10	80,80,80,80	0
56	MG	2A	3040	1/1	0.91	0.17	82,82,82,82	0
56	MG	2A	3042	1/1	0.91	0.15	89,89,89,89	0
56	MG	1A	3274	1/1	0.91	0.14	78,78,78,78	0
56	MG	1A	3347	1/1	0.91	0.22	70,70,70,70	0
56	MG	2A	3158	1/1	0.91	0.18	78,78,78,78	0
56	MG	2A	3046	1/1	0.91	0.21	68,68,68,68	0
56	MG	1A	3514	1/1	0.91	0.09	94,94,94,94	0
56	MG	1A	3311	1/1	0.91	0.30	61,61,61,61	0
56	MG	2A	3050	1/1	0.91	0.13	81,81,81,81	0
56	MG	2a	3177	1/1	0.91	0.26	86,86,86,86	0
56	MG	2A	3165	1/1	0.91	0.13	77,77,77,77	0
56	MG	2A	3295	1/1	0.91	0.08	91,91,91,91	0
56	MG	1A	3440	1/1	0.91	0.20	77,77,77,77	0
56	MG	2a	3181	1/1	0.91	0.22	90,90,90,90	0
56	MG	2a	3183	1/1	0.91	0.06	98,98,98,98	0
56	MG	1A	3082	1/1	0.92	0.13	69,69,69,69	0
56	MG	2A	3197	1/1	0.92	0.12	78,78,78,78	0
56	MG	2A	3199	1/1	0.92	0.23	74,74,74,74	0
56	MG	1A	3532	1/1	0.92	0.10	88,88,88,88	0
56	MG	2A	3002	1/1	0.92	0.23	81,81,81,81	0
56	MG	1A	3451	1/1	0.92	0.06	85,85,85,85	0
56	MG	2a	3081	1/1	0.92	0.06	61,61,61,61	0
56	MG	1A	3613	1/1	0.92	0.11	64,64,64,64	0
56	MG	1a	3164	1/1	0.92	0.16	81,81,81,81	0
56	MG	2A	3106	1/1	0.92	0.07	73,73,73,73	0
56	MG	1A	3092	1/1	0.92	0.11	70,70,70,70	0
56	MG	1A	3280	1/1	0.92	0.26	77,77,77,77	0
56	MG	2A	3328	1/1	0.92	0.10	90,90,90,90	0
56	MG	1A	3537	1/1	0.92	0.47	113,113,113,113	0
56	MG	1A	3173	1/1	0.92	0.23	74,74,74,74	0
56	MG	1A	3208	1/1	0.92	0.15	74,74,74,74	0
56	MG	1A	3543	1/1	0.92	0.17	86,86,86,86	0
56	MG	1A	3175	1/1	0.92	0.21	75,75,75,75	0
56	MG	1A	3286	1/1	0.92	0.20	96,96,96,96	0
56	MG	1a	3176	1/1	0.92	0.11	84,84,84,84	0
56	MG	2A	3023	1/1	0.92	0.18	71,71,71,71	0
56	MG	1a	3179	1/1	0.92	0.19	90,90,90,90	0
56	MG	2A	3123	1/1	0.92	0.20	81,81,81,81	0
56	MG	1A	3550	1/1	0.92	0.15	101,101,101,101	0
56	MG	1a	3028	1/1	0.92	0.08	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3630	1/1	0.92	0.17	77,77,77,77	0
56	MG	2a	3003	1/1	0.92	0.16	69,69,69,69	0
56	MG	2A	3128	1/1	0.92	0.14	54,54,54,54	0
56	MG	1A	3323	1/1	0.92	0.26	81,81,81,81	0
56	MG	1A	3032	1/1	0.92	0.18	75,75,75,75	0
56	MG	1a	3102	1/1	0.92	0.18	72,72,72,72	0
56	MG	2a	3109	1/1	0.92	0.12	82,82,82,82	0
56	MG	1A	3178	1/1	0.92	0.09	82,82,82,82	0
56	MG	1a	3034	1/1	0.92	0.15	73,73,73,73	0
56	MG	1A	3195	1/1	0.92	0.08	78,78,78,78	0
56	MG	1A	3217	1/1	0.92	0.18	60,60,60,60	0
56	MG	2A	3036	1/1	0.92	0.19	87,87,87,87	0
56	MG	1A	3474	1/1	0.92	0.27	74,74,74,74	0
56	MG	1A	3138	1/1	0.92	0.20	82,82,82,82	0
56	MG	1A	3001	1/1	0.92	0.09	70,70,70,70	0
56	MG	1A	3419	1/1	0.92	0.28	87,87,87,87	0
56	MG	1a	3042	1/1	0.92	0.06	74,74,74,74	0
56	MG	2A	3043	1/1	0.92	0.16	82,82,82,82	0
56	MG	1A	3372	1/1	0.92	0.23	63,63,63,63	0
56	MG	2a	3128	1/1	0.92	0.22	74,74,74,74	0
56	MG	1A	3076	1/1	0.92	0.12	54,54,54,54	0
56	MG	2a	3022	1/1	0.92	0.15	83,83,83,83	0
56	MG	1A	3490	1/1	0.92	0.18	79,79,79,79	0
56	MG	2a	3133	1/1	0.92	0.07	92,92,92,92	0
56	MG	1A	3243	1/1	0.92	0.11	81,81,81,81	0
56	MG	2a	3025	1/1	0.92	0.07	86,86,86,86	0
56	MG	1A	3077	1/1	0.92	0.18	93,93,93,93	0
56	MG	1A	3245	1/1	0.92	0.35	56,56,56,56	0
56	MG	2A	3051	1/1	0.92	0.15	80,80,80,80	0
56	MG	1A	3425	1/1	0.92	0.11	62,62,62,62	0
56	MG	1A	3655	1/1	0.92	0.24	67,67,67,67	0
56	MG	1A	3223	1/1	0.92	0.17	59,59,59,59	0
56	MG	2a	3035	1/1	0.92	0.11	94,94,94,94	0
56	MG	1A	3427	1/1	0.92	0.11	78,78,78,78	0
56	MG	2A	3058	1/1	0.92	0.16	78,78,78,78	0
56	MG	1A	3379	1/1	0.92	0.26	55,55,55,55	0
56	MG	2A	3161	1/1	0.92	0.11	69,69,69,69	0
56	MG	1A	3582	1/1	0.92	0.08	73,73,73,73	0
56	MG	1A	3662	1/1	0.92	0.10	90,90,90,90	0
56	MG	1A	3047	1/1	0.92	0.20	68,68,68,68	0
56	MG	2A	3283	1/1	0.92	0.11	84,84,84,84	0
56	MG	2a	3151	1/1	0.92	0.07	111,111,111,111	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3226	1/1	0.92	0.34	62,62,62,62	0
56	MG	1A	3342	1/1	0.92	0.19	64,64,64,64	0
56	MG	1a	3061	1/1	0.92	0.08	79,79,79,79	0
56	MG	2A	3288	1/1	0.92	0.15	71,71,71,71	0
56	MG	1A	3512	1/1	0.92	0.17	82,82,82,82	0
56	MG	1A	3384	1/1	0.92	0.33	75,75,75,75	0
56	MG	1A	3306	1/1	0.92	0.34	82,82,82,82	0
56	MG	2a	3160	1/1	0.92	0.18	104,104,104,104	0
56	MG	1A	3436	1/1	0.92	0.21	68,68,68,68	0
56	MG	1A	3307	1/1	0.92	0.15	60,60,60,60	0
56	MG	2a	3163	1/1	0.92	0.19	103,103,103,103	0
56	MG	1a	3142	1/1	0.92	0.20	85,85,85,85	0
56	MG	1A	3439	1/1	0.92	0.23	84,84,84,84	0
56	MG	1A	3275	1/1	0.92	0.26	61,61,61,61	0
56	MG	1A	3186	1/1	0.92	0.22	95,95,95,95	0
56	MG	2A	3085	1/1	0.92	0.32	101,101,101,101	0
56	MG	1A	3596	1/1	0.92	0.13	81,81,81,81	0
56	MG	2A	3185	1/1	0.92	0.13	76,76,76,76	0
56	MG	2A	3186	1/1	0.92	0.15	79,79,79,79	0
56	MG	1A	3312	1/1	0.92	0.29	62,62,62,62	0
56	MG	1A	3391	1/1	0.92	0.23	80,80,80,80	0
56	MG	1A	3351	1/1	0.92	0.22	58,58,58,58	0
56	MG	1a	3007	1/1	0.92	0.23	67,67,67,67	0
56	MG	1A	3602	1/1	0.92	0.21	67,67,67,67	0
56	MG	1A	3187	1/1	0.92	0.22	75,75,75,75	0
56	MG	1A	3353	1/1	0.92	0.13	66,66,66,66	0
56	MG	2A	3097	1/1	0.92	0.23	91,91,91,91	0
56	MG	1A	3669	1/1	0.93	0.11	79,79,79,79	0
56	MG	1A	3496	1/1	0.93	0.22	72,72,72,72	0
56	MG	1A	3180	1/1	0.93	0.27	93,93,93,93	0
56	MG	1A	3067	1/1	0.93	0.14	65,65,65,65	0
56	MG	1a	3110	1/1	0.93	0.12	90,90,90,90	0
56	MG	1A	3146	1/1	0.93	0.06	62,62,62,62	0
56	MG	1A	3078	1/1	0.93	0.12	79,79,79,79	0
56	MG	1A	3048	1/1	0.93	0.14	74,74,74,74	0
56	MG	2A	3171	1/1	0.93	0.08	86,86,86,86	0
56	MG	2A	3010	1/1	0.93	0.07	85,85,85,85	0
56	MG	1A	3411	1/1	0.93	0.28	66,66,66,66	0
56	MG	2A	3273	1/1	0.93	0.14	86,86,86,86	0
56	MG	1A	3412	1/1	0.93	0.22	79,79,79,79	0
56	MG	1a	3185	1/1	0.93	0.08	90,90,90,90	0
56	MG	2A	3015	1/1	0.93	0.09	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3016	1/1	0.93	0.07	82,82,82,82	0
56	MG	1A	3616	1/1	0.93	0.16	84,84,84,84	0
56	MG	1A	3149	1/1	0.93	0.25	76,76,76,76	0
56	MG	1A	3448	1/1	0.93	0.11	78,78,78,78	0
56	MG	1A	3510	1/1	0.93	0.19	64,64,64,64	0
56	MG	1A	3563	1/1	0.93	0.11	97,97,97,97	0
56	MG	2A	3284	1/1	0.93	0.11	79,79,79,79	0
56	MG	1a	3123	1/1	0.93	0.05	72,72,72,72	0
56	MG	2a	3027	1/1	0.93	0.06	83,83,83,83	0
56	MG	1A	3511	1/1	0.93	0.11	62,62,62,62	0
56	MG	1A	3625	1/1	0.93	0.21	66,66,66,66	0
56	MG	1A	3415	1/1	0.93	0.18	78,78,78,78	0
56	MG	2a	3032	1/1	0.93	0.05	79,79,79,79	0
56	MG	1A	3074	1/1	0.93	0.09	81,81,81,81	0
56	MG	1A	3055	1/1	0.93	0.09	79,79,79,79	0
56	MG	1A	3382	1/1	0.93	0.28	60,60,60,60	0
56	MG	1A	3066	1/1	0.93	0.13	78,78,78,78	0
56	MG	1A	3110	1/1	0.93	0.17	82,82,82,82	0
56	MG	1A	3281	1/1	0.93	0.16	64,64,64,64	0
56	MG	1A	3282	1/1	0.93	0.28	63,63,63,63	0
56	MG	1A	3639	1/1	0.93	0.20	67,67,67,67	0
56	MG	1a	3135	1/1	0.93	0.13	82,82,82,82	0
56	MG	1a	3074	1/1	0.93	0.14	88,88,88,88	0
56	MG	1A	3174	1/1	0.93	0.08	77,77,77,77	0
56	MG	1A	3524	1/1	0.93	0.16	84,84,84,84	0
56	MG	1A	3643	1/1	0.93	0.16	86,86,86,86	0
56	MG	1A	3644	1/1	0.93	0.16	65,65,65,65	0
56	MG	1A	3156	1/1	0.93	0.21	66,66,66,66	0
56	MG	1a	3144	1/1	0.93	0.22	71,71,71,71	0
56	MG	2A	3132	1/1	0.93	0.13	97,97,97,97	0
56	MG	2A	3212	1/1	0.93	0.10	83,83,83,83	0
56	MG	1A	3136	1/1	0.93	0.08	78,78,78,78	0
56	MG	1A	3159	1/1	0.93	0.07	69,69,69,69	0
56	MG	2A	3312	1/1	0.93	0.09	74,74,74,74	0
56	MG	1A	3392	1/1	0.93	0.28	80,80,80,80	0
56	MG	1A	3649	1/1	0.93	0.06	86,86,86,86	0
56	MG	2A	3052	1/1	0.93	0.07	72,72,72,72	0
56	MG	1a	3086	1/1	0.93	0.12	76,76,76,76	0
56	MG	1A	3249	1/1	0.93	0.29	77,77,77,77	0
56	MG	1A	3366	1/1	0.93	0.30	72,72,72,72	0
56	MG	2a	3065	1/1	0.93	0.12	83,83,83,83	0
56	MG	2A	3223	1/1	0.93	0.12	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3289	1/1	0.93	0.15	92,92,92,92	0
56	MG	2A	3144	1/1	0.93	0.09	75,75,75,75	0
56	MG	1A	3315	1/1	0.93	0.17	57,57,57,57	0
56	MG	2A	3060	1/1	0.93	0.07	79,79,79,79	0
56	MG	1A	3341	1/1	0.93	0.15	70,70,70,70	0
56	MG	1a	3037	1/1	0.93	0.17	82,82,82,82	0
56	MG	1A	3212	1/1	0.93	0.25	54,54,54,54	0
56	MG	1A	3488	1/1	0.93	0.13	80,80,80,80	0
56	MG	2a	3165	1/1	0.93	0.08	116,116,116,116	0
56	MG	2A	3331	1/1	0.93	0.20	67,67,67,67	0
56	MG	1a	3229	1/1	0.93	0.21	85,85,85,85	0
56	MG	2A	3240	1/1	0.93	0.12	84,84,84,84	0
56	MG	2A	3334	1/1	0.93	0.15	105,105,105,105	0
56	MG	2A	3339	1/1	0.93	0.15	92,92,92,92	0
56	MG	2A	3242	1/1	0.93	0.14	70,70,70,70	0
56	MG	1a	3231	1/1	0.93	0.20	82,82,82,82	0
56	MG	1A	3371	1/1	0.93	0.30	52,52,52,52	0
56	MG	1A	3492	1/1	0.93	0.11	77,77,77,77	0
56	MG	2a	3084	1/1	0.93	0.19	78,78,78,78	0
56	MG	1A	3317	1/1	0.93	0.25	56,56,56,56	0
56	MG	1A	3547	1/1	0.93	0.12	71,71,71,71	0
56	MG	1A	3548	1/1	0.93	0.17	91,91,91,91	0
56	MG	1A	3665	1/1	0.93	0.17	74,74,74,74	0
56	MG	1A	3603	1/1	0.93	0.09	67,67,67,67	0
57	ZN	24	501	1/1	0.93	0.13	168,168,168,168	0
56	MG	1A	3450	1/1	0.94	0.15	76,76,76,76	0
56	MG	1A	3589	1/1	0.94	0.08	86,86,86,86	0
56	MG	2a	3016	1/1	0.94	0.11	91,91,91,91	0
56	MG	1A	3375	1/1	0.94	0.13	62,62,62,62	0
56	MG	2A	3191	1/1	0.94	0.13	74,74,74,74	0
56	MG	1A	3541	1/1	0.94	0.16	72,72,72,72	0
56	MG	1A	3542	1/1	0.94	0.06	77,77,77,77	0
56	MG	1A	3398	1/1	0.94	0.14	67,67,67,67	0
56	MG	2A	3127	1/1	0.94	0.14	78,78,78,78	0
56	MG	1A	3453	1/1	0.94	0.07	84,84,84,84	0
56	MG	1A	3546	1/1	0.94	0.10	69,69,69,69	0
56	MG	2A	3198	1/1	0.94	0.06	83,83,83,83	0
56	MG	1A	3455	1/1	0.94	0.08	63,63,63,63	0
56	MG	2a	3108	1/1	0.94	0.05	98,98,98,98	0
56	MG	2A	3200	1/1	0.94	0.09	86,86,86,86	0
56	MG	2a	3110	1/1	0.94	0.12	80,80,80,80	0
56	MG	1A	3011	1/1	0.94	0.07	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3357	1/1	0.94	0.39	76,76,76,76	0
56	MG	2a	3030	1/1	0.94	0.19	77,77,77,77	0
56	MG	1a	3075	1/1	0.94	0.19	72,72,72,72	0
56	MG	2a	3118	1/1	0.94	0.05	115,115,115,115	0
56	MG	1A	3459	1/1	0.94	0.07	62,62,62,62	0
56	MG	1A	3460	1/1	0.94	0.10	55,55,55,55	0
56	MG	1A	3037	1/1	0.94	0.12	83,83,83,83	0
56	MG	2A	3208	1/1	0.94	0.16	71,71,71,71	0
56	MG	2A	3006	1/1	0.94	0.11	71,71,71,71	0
56	MG	1A	3101	1/1	0.94	0.15	86,86,86,86	0
56	MG	2a	3125	1/1	0.94	0.12	75,75,75,75	0
56	MG	2a	3038	1/1	0.94	0.13	101,101,101,101	0
56	MG	2a	3039	1/1	0.94	0.09	89,89,89,89	0
56	MG	1A	3102	1/1	0.94	0.09	78,78,78,78	0
56	MG	1A	3406	1/1	0.94	0.18	59,59,59,59	0
56	MG	1A	3166	1/1	0.94	0.24	77,77,77,77	0
56	MG	2a	3131	1/1	0.94	0.07	84,84,84,84	0
56	MG	1A	3468	1/1	0.94	0.15	83,83,83,83	0
56	MG	2a	3045	1/1	0.94	0.07	102,102,102,102	0
56	MG	1A	3288	1/1	0.94	0.07	70,70,70,70	0
56	MG	1A	3086	1/1	0.94	0.21	70,70,70,70	0
56	MG	1A	3069	1/1	0.94	0.22	67,67,67,67	0
56	MG	1a	3088	1/1	0.94	0.08	96,96,96,96	0
56	MG	2A	3081	1/1	0.94	0.19	79,79,79,79	0
56	MG	1A	3473	1/1	0.94	0.09	86,86,86,86	0
56	MG	2A	3018	1/1	0.94	0.07	85,85,85,85	0
56	MG	2A	3224	1/1	0.94	0.20	62,62,62,62	0
56	MG	1A	3325	1/1	0.94	0.14	69,69,69,69	0
56	MG	2A	3021	1/1	0.94	0.10	98,98,98,98	0
56	MG	2A	3228	1/1	0.94	0.13	68,68,68,68	0
56	MG	2A	3320	1/1	0.94	0.07	79,79,79,79	0
56	MG	1A	3522	1/1	0.94	0.10	69,69,69,69	0
56	MG	2A	3155	1/1	0.94	0.20	66,66,66,66	0
56	MG	2A	3089	1/1	0.94	0.05	82,82,82,82	0
56	MG	1A	3621	1/1	0.94	0.13	69,69,69,69	0
56	MG	1A	3523	1/1	0.94	0.10	96,96,96,96	0
56	MG	1A	3574	1/1	0.94	0.18	77,77,77,77	0
56	MG	1A	3624	1/1	0.94	0.17	64,64,64,64	0
56	MG	1a	3206	1/1	0.94	0.06	89,89,89,89	0
56	MG	1A	3169	1/1	0.94	0.30	84,84,84,84	0
56	MG	2A	3163	1/1	0.94	0.15	79,79,79,79	0
56	MG	1A	3292	1/1	0.94	0.07	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3388	1/1	0.94	0.40	69,69,69,69	0
56	MG	1A	3482	1/1	0.94	0.17	75,75,75,75	0
56	MG	1A	3349	1/1	0.94	0.09	72,72,72,72	0
56	MG	1A	3224	1/1	0.94	0.17	65,65,65,65	0
56	MG	2A	3102	1/1	0.94	0.06	72,72,72,72	0
56	MG	1A	3118	1/1	0.94	0.11	60,60,60,60	0
56	MG	1a	3159	1/1	0.94	0.21	72,72,72,72	0
56	MG	1a	3056	1/1	0.94	0.15	83,83,83,83	0
56	MG	1A	3296	1/1	0.94	0.16	76,76,76,76	0
56	MG	1A	3127	1/1	0.94	0.24	72,72,72,72	0
56	MG	2A	3350	1/1	0.94	0.17	70,70,70,70	0
56	MG	2A	3110	1/1	0.94	0.12	79,79,79,79	0
56	MG	1A	3638	1/1	0.94	0.10	80,80,80,80	0
56	MG	2A	3178	1/1	0.94	0.16	63,63,63,63	0
56	MG	2a	3172	1/1	0.94	0.11	89,89,89,89	0
56	MG	2A	3263	1/1	0.94	0.07	86,86,86,86	0
56	MG	2A	3179	1/1	0.94	0.13	74,74,74,74	0
56	MG	2A	3180	1/1	0.94	0.08	74,74,74,74	0
56	MG	2A	3041	1/1	0.94	0.08	69,69,69,69	0
56	MG	1a	3012	1/1	0.94	0.07	93,93,93,93	0
56	MG	1A	3354	1/1	0.94	0.11	83,83,83,83	0
56	MG	1a	3112	1/1	0.94	0.18	70,70,70,70	0
56	MG	1A	3060	1/1	0.94	0.17	75,75,75,75	0
56	MG	2A	3117	1/1	0.94	0.12	83,83,83,83	0
56	MG	1A	3538	1/1	0.94	0.12	87,87,87,87	0
56	MG	1A	3509	1/1	0.95	0.13	75,75,75,75	0
56	MG	1a	3178	1/1	0.95	0.13	81,81,81,81	0
56	MG	1A	3310	1/1	0.95	0.36	76,76,76,76	0
56	MG	1A	3597	1/1	0.95	0.07	87,87,87,87	0
56	MG	2A	3064	1/1	0.95	0.26	82,82,82,82	0
56	MG	1A	3598	1/1	0.95	0.18	74,74,74,74	0
56	MG	1A	3050	1/1	0.95	0.09	76,76,76,76	0
56	MG	1A	3096	1/1	0.95	0.05	90,90,90,90	0
56	MG	1A	3155	1/1	0.95	0.21	65,65,65,65	0
56	MG	2A	3292	1/1	0.95	0.07	91,91,91,91	0
56	MG	2a	3111	1/1	0.95	0.09	86,86,86,86	0
56	MG	2A	3207	1/1	0.95	0.08	68,68,68,68	0
56	MG	1A	3335	1/1	0.95	0.14	66,66,66,66	0
56	MG	1A	3097	1/1	0.95	0.13	94,94,94,94	0
56	MG	1A	3472	1/1	0.95	0.10	72,72,72,72	0
56	MG	2a	3117	1/1	0.95	0.11	92,92,92,92	0
56	MG	1A	3010	1/1	0.95	0.16	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3057	1/1	0.95	0.14	79,79,79,79	0
56	MG	2A	3077	1/1	0.95	0.11	77,77,77,77	0
56	MG	2A	3214	1/1	0.95	0.11	92,92,92,92	0
56	MG	1A	3477	1/1	0.95	0.11	56,56,56,56	0
56	MG	1A	3251	1/1	0.95	0.09	69,69,69,69	0
56	MG	1A	3564	1/1	0.95	0.05	97,97,97,97	0
56	MG	2A	3218	1/1	0.95	0.15	83,83,83,83	0
56	MG	1a	3081	1/1	0.95	0.16	81,81,81,81	0
56	MG	1A	3071	1/1	0.95	0.22	74,74,74,74	0
56	MG	1A	3660	1/1	0.95	0.18	65,65,65,65	0
56	MG	1A	3080	1/1	0.95	0.06	66,66,66,66	0
56	MG	1A	3196	1/1	0.95	0.26	81,81,81,81	0
56	MG	1A	3090	1/1	0.95	0.11	84,84,84,84	0
56	MG	2A	3020	1/1	0.95	0.23	69,69,69,69	0
56	MG	1A	3664	1/1	0.95	0.15	82,82,82,82	0
56	MG	2A	3227	1/1	0.95	0.12	81,81,81,81	0
56	MG	1A	3216	1/1	0.95	0.24	50,50,50,50	0
56	MG	1A	3348	1/1	0.95	0.20	74,74,74,74	0
56	MG	2A	3093	1/1	0.95	0.07	71,71,71,71	0
56	MG	1A	3668	1/1	0.95	0.07	82,82,82,82	0
56	MG	1A	3620	1/1	0.95	0.24	91,91,91,91	0
56	MG	2A	3233	1/1	0.95	0.16	71,71,71,71	0
56	MG	1A	3489	1/1	0.95	0.09	78,78,78,78	0
56	MG	1A	3081	1/1	0.95	0.12	60,60,60,60	0
56	MG	1A	3491	1/1	0.95	0.27	84,84,84,84	0
56	MG	2A	3167	1/1	0.95	0.09	87,87,87,87	0
56	MG	2A	3241	1/1	0.95	0.09	89,89,89,89	0
56	MG	1A	3259	1/1	0.95	0.20	54,54,54,54	0
56	MG	1A	3106	1/1	0.95	0.08	63,63,63,63	0
56	MG	1A	3495	1/1	0.95	0.16	66,66,66,66	0
56	MG	1a	3153	1/1	0.95	0.12	84,84,84,84	0
56	MG	1A	3677	1/1	0.95	0.19	55,55,55,55	0
56	MG	1a	3212	1/1	0.95	0.09	71,71,71,71	0
56	MG	2A	3335	1/1	0.95	0.13	100,100,100,100	0
56	MG	2A	3338	1/1	0.95	0.07	97,97,97,97	0
56	MG	1a	3155	1/1	0.95	0.17	74,74,74,74	0
56	MG	2A	3107	1/1	0.95	0.07	92,92,92,92	0
56	MG	1A	3627	1/1	0.95	0.16	60,60,60,60	0
56	MG	1A	3628	1/1	0.95	0.14	56,56,56,56	0
56	MG	1A	3454	1/1	0.95	0.13	66,66,66,66	0
56	MG	2a	3159	1/1	0.95	0.05	92,92,92,92	0
56	MG	1a	3001	1/1	0.95	0.12	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3003	1/1	0.95	0.07	60,60,60,60	0
56	MG	2A	3259	1/1	0.95	0.11	76,76,76,76	0
56	MG	1a	3161	1/1	0.95	0.10	82,82,82,82	0
56	MG	1a	3106	1/1	0.95	0.05	98,98,98,98	0
56	MG	1A	3220	1/1	0.95	0.21	71,71,71,71	0
56	MG	1A	3201	1/1	0.95	0.19	68,68,68,68	0
56	MG	1A	3402	1/1	0.95	0.12	51,51,51,51	0
56	MG	1a	3225	1/1	0.95	0.07	85,85,85,85	0
56	MG	1A	3403	1/1	0.95	0.30	59,59,59,59	0
56	MG	2A	3049	1/1	0.95	0.07	81,81,81,81	0
56	MG	2A	3270	1/1	0.95	0.15	80,80,80,80	0
56	MG	2A	3271	1/1	0.95	0.11	83,83,83,83	0
56	MG	2A	3272	1/1	0.95	0.07	89,89,89,89	0
56	MG	2A	3122	1/1	0.95	0.09	86,86,86,86	0
56	MG	2a	3175	1/1	0.95	0.08	76,76,76,76	0
56	MG	1A	3109	1/1	0.95	0.06	78,78,78,78	0
56	MG	1a	3228	1/1	0.95	0.17	72,72,72,72	0
56	MG	1A	3004	1/1	0.95	0.05	56,56,56,56	0
56	MG	1A	3432	1/1	0.95	0.36	57,57,57,57	0
56	MG	1A	3507	1/1	0.95	0.15	92,92,92,92	0
56	MG	1A	3641	1/1	0.95	0.15	68,68,68,68	0
56	MG	2a	3182	1/1	0.95	0.07	106,106,106,106	0
56	MG	2A	3056	1/1	0.95	0.10	73,73,73,73	0
57	ZN	14	501	1/1	0.95	0.11	162,162,162,162	0
56	MG	1A	3465	1/1	0.95	0.05	80,80,80,80	0
56	MG	2A	3306	1/1	0.96	0.07	74,74,74,74	0
56	MG	2A	3250	1/1	0.96	0.14	65,65,65,65	0
56	MG	2A	3252	1/1	0.96	0.10	73,73,73,73	0
56	MG	1A	3604	1/1	0.96	0.12	67,67,67,67	0
56	MG	1a	3175	1/1	0.96	0.05	87,87,87,87	0
56	MG	1A	3209	1/1	0.96	0.12	56,56,56,56	0
56	MG	2A	3256	1/1	0.96	0.08	98,98,98,98	0
56	MG	1A	3606	1/1	0.96	0.15	71,71,71,71	0
56	MG	1a	3137	1/1	0.96	0.17	79,79,79,79	0
56	MG	2A	3065	1/1	0.96	0.24	88,88,88,88	0
56	MG	1A	3607	1/1	0.96	0.12	58,58,58,58	0
56	MG	2A	3067	1/1	0.96	0.04	82,82,82,82	0
56	MG	1A	3158	1/1	0.96	0.30	67,67,67,67	0
56	MG	2A	3069	1/1	0.96	0.08	82,82,82,82	0
56	MG	1A	3305	1/1	0.96	0.17	65,65,65,65	0
56	MG	1a	3141	1/1	0.96	0.25	59,59,59,59	0
56	MG	1A	3516	1/1	0.96	0.08	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	2A	3028	1/1	0.96	0.05	68,68,68,68	0
56	MG	2A	3120	1/1	0.96	0.09	94,94,94,94	0
56	MG	1A	3051	1/1	0.96	0.09	68,68,68,68	0
56	MG	1A	3089	1/1	0.96	0.15	59,59,59,59	0
56	MG	1A	3008	1/1	0.96	0.08	74,74,74,74	0
56	MG	1A	3309	1/1	0.96	0.16	67,67,67,67	0
56	MG	1A	3162	1/1	0.96	0.07	83,83,83,83	0
56	MG	1A	3163	1/1	0.96	0.05	46,46,46,46	0
56	MG	1A	3247	1/1	0.96	0.06	55,55,55,55	0
56	MG	1a	3113	1/1	0.96	0.10	86,86,86,86	0
56	MG	1A	3295	1/1	0.96	0.33	66,66,66,66	0
56	MG	2A	3336	1/1	0.96	0.14	77,77,77,77	0
56	MG	2A	3337	1/1	0.96	0.08	78,78,78,78	0
56	MG	1A	3502	1/1	0.96	0.12	61,61,61,61	0
56	MG	1A	3553	1/1	0.96	0.12	89,89,89,89	0
56	MG	1A	3526	1/1	0.96	0.06	76,76,76,76	0
56	MG	2A	3133	1/1	0.96	0.14	65,65,65,65	0
56	MG	1A	3018	1/1	0.96	0.09	84,84,84,84	0
56	MG	1A	3177	1/1	0.96	0.07	89,89,89,89	0
56	MG	1A	3529	1/1	0.96	0.11	71,71,71,71	0
56	MG	1a	3052	1/1	0.96	0.13	84,84,84,84	0
56	MG	2a	3112	1/1	0.96	0.06	87,87,87,87	0
56	MG	1A	3478	1/1	0.96	0.08	83,83,83,83	0
56	MG	1A	3154	1/1	0.96	0.12	59,59,59,59	0
56	MG	1A	3111	1/1	0.96	0.11	83,83,83,83	0
56	MG	2A	3141	1/1	0.96	0.15	81,81,81,81	0
56	MG	1A	3193	1/1	0.96	0.23	62,62,62,62	0
56	MG	2A	3239	1/1	0.96	0.08	77,77,77,77	0
56	MG	1a	3090	1/1	0.96	0.28	87,87,87,87	0
56	MG	1A	3458	1/1	0.96	0.06	82,82,82,82	0
56	MG	1A	3338	1/1	0.96	0.14	45,45,45,45	0
56	MG	1A	3064	1/1	0.96	0.07	84,84,84,84	0
56	MG	2A	3299	1/1	0.96	0.11	66,66,66,66	0
56	MG	1A	3567	1/1	0.96	0.05	87,87,87,87	0
56	MG	1a	3170	1/1	0.96	0.12	76,76,76,76	0
56	MG	1A	3568	1/1	0.96	0.05	79,79,79,79	0
56	MG	2A	3103	1/1	0.96	0.08	83,83,83,83	0
56	MG	1A	3569	1/1	0.96	0.07	95,95,95,95	0
56	MG	1A	3105	1/1	0.96	0.25	74,74,74,74	0
56	MG	2A	3236	1/1	0.97	0.28	69,69,69,69	0
56	MG	1A	3435	1/1	0.97	0.08	59,59,59,59	0
56	MG	2A	3279	1/1	0.97	0.11	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3017	1/1	0.97	0.05	64,64,64,64	0
56	MG	1A	3072	1/1	0.97	0.21	67,67,67,67	0
56	MG	2a	3103	1/1	0.97	0.07	73,73,73,73	0
56	MG	1A	3535	1/1	0.97	0.10	90,90,90,90	0
56	MG	1A	3271	1/1	0.97	0.13	49,49,49,49	0
56	MG	1A	3561	1/1	0.97	0.09	64,64,64,64	0
56	MG	1a	3029	1/1	0.97	0.12	64,64,64,64	0
56	MG	1A	3073	1/1	0.97	0.07	81,81,81,81	0
56	MG	1a	3230	1/1	0.97	0.06	84,84,84,84	0
56	MG	2A	3063	1/1	0.97	0.03	67,67,67,67	0
56	MG	1A	3413	1/1	0.97	0.28	71,71,71,71	0
56	MG	1A	3494	1/1	0.97	0.05	75,75,75,75	0
56	MG	1A	3593	1/1	0.97	0.13	65,65,65,65	0
56	MG	1A	3046	1/1	0.97	0.16	54,54,54,54	0
56	MG	1A	3253	1/1	0.97	0.17	71,71,71,71	0
56	MG	1A	3476	1/1	0.97	0.13	89,89,89,89	0
56	MG	1A	3107	1/1	0.97	0.13	81,81,81,81	0
56	MG	1A	3570	1/1	0.97	0.10	99,99,99,99	0
56	MG	1A	3499	1/1	0.97	0.14	72,72,72,72	0
56	MG	1A	3040	1/1	0.97	0.08	115,115,115,115	0
56	MG	1A	3656	1/1	0.97	0.11	70,70,70,70	0
56	MG	1A	3446	1/1	0.97	0.08	65,65,65,65	0
56	MG	1A	3462	1/1	0.97	0.05	64,64,64,64	0
56	MG	1A	3130	1/1	0.97	0.06	81,81,81,81	0
56	MG	1a	3013	1/1	0.97	0.08	77,77,77,77	0
56	MG	1A	3631	1/1	0.97	0.04	82,82,82,82	0
56	MG	2A	3349	1/1	0.97	0.08	81,81,81,81	0
56	MG	2a	3041	1/1	0.97	0.24	69,69,69,69	0
56	MG	1a	3015	1/1	0.97	0.06	90,90,90,90	0
56	MG	1A	3345	1/1	0.97	0.21	66,66,66,66	0
56	MG	1A	3483	1/1	0.97	0.04	77,77,77,77	0
56	MG	2A	3083	1/1	0.97	0.07	80,80,80,80	0
56	MG	2a	3046	1/1	0.97	0.06	85,85,85,85	0
56	MG	2A	3269	1/1	0.97	0.05	74,74,74,74	0
56	MG	1a	3147	1/1	0.97	0.25	71,71,71,71	0
56	MG	1A	3484	1/1	0.97	0.06	80,80,80,80	0
56	MG	1A	3635	1/1	0.97	0.04	78,78,78,78	0
56	MG	1A	3171	1/1	0.97	0.19	77,77,77,77	0
56	MG	1A	3061	1/1	0.97	0.05	77,77,77,77	0
56	MG	1A	3487	1/1	0.97	0.08	81,81,81,81	0
56	MG	2A	3235	1/1	0.97	0.15	69,69,69,69	0
56	MG	1A	3049	1/1	0.98	0.06	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3611	1/1	0.98	0.07	75,75,75,75	0
56	MG	1a	3011	1/1	0.98	0.14	94,94,94,94	0
56	MG	1A	3438	1/1	0.98	0.07	71,71,71,71	0
56	MG	1a	3169	1/1	0.98	0.10	80,80,80,80	0
56	MG	1A	3475	1/1	0.98	0.05	88,88,88,88	0
56	MG	2A	3340	1/1	0.98	0.03	67,67,67,67	0
56	MG	1A	3675	1/1	0.98	0.14	47,47,47,47	0
56	MG	2A	3342	1/1	0.98	0.12	78,78,78,78	0
56	MG	1A	3068	1/1	0.98	0.05	74,74,74,74	0
56	MG	1A	3395	1/1	0.98	0.04	72,72,72,72	0
56	MG	1A	3103	1/1	0.98	0.10	68,68,68,68	0
56	MG	1A	3093	1/1	0.98	0.06	73,73,73,73	0
56	MG	1a	3219	1/1	0.98	0.09	74,74,74,74	0
56	MG	1a	3095	1/1	0.98	0.15	62,62,62,62	0
56	MG	1A	3337	1/1	0.98	0.05	57,57,57,57	0
56	MG	2A	3322	1/1	0.98	0.06	86,86,86,86	0
56	MG	2A	3351	1/1	0.98	0.04	84,84,84,84	0
56	MG	1A	3013	1/1	0.98	0.06	69,69,69,69	0
56	MG	1A	3028	1/1	0.98	0.06	68,68,68,68	0
56	MG	1A	3562	1/1	0.98	0.04	60,60,60,60	0
56	MG	1A	3667	1/1	0.98	0.05	68,68,68,68	0
56	MG	1A	3179	1/1	0.98	0.07	90,90,90,90	0
56	MG	1a	3006	1/1	0.98	0.04	90,90,90,90	0
56	MG	2A	3251	1/1	0.98	0.07	73,73,73,73	0
56	MG	1A	3215	1/1	0.98	0.07	49,49,49,49	0
56	MG	2A	3059	1/1	0.98	0.06	93,93,93,93	0
56	MG	1A	3233	1/1	0.98	0.10	58,58,58,58	0
57	ZN	2Y	501	1/1	0.98	0.04	138,138,138,138	0
56	MG	2A	3014	1/1	0.98	0.07	72,72,72,72	0
57	ZN	2n	501	1/1	0.98	0.04	117,117,117,117	0
58	SF4	1d	501	8/8	0.98	0.04	76,91,99,101	0
56	MG	1A	3231	1/1	0.99	0.12	57,57,57,57	0
56	MG	2A	3268	1/1	0.99	0.03	82,82,82,82	0
56	MG	2A	3088	1/1	0.99	0.04	77,77,77,77	0
57	ZN	1Y	501	1/1	0.99	0.02	100,100,100,100	0
56	MG	2A	3319	1/1	0.99	0.03	78,78,78,78	0
57	ZN	16	501	1/1	0.99	0.03	87,87,87,87	0
57	ZN	1n	501	1/1	0.99	0.08	105,105,105,105	0
56	MG	1A	3544	1/1	0.99	0.04	71,71,71,71	0
56	MG	1a	3177	1/1	0.99	0.09	73,73,73,73	0
57	ZN	26	501	1/1	0.99	0.07	98,98,98,98	0
57	ZN	29	501	1/1	0.99	0.03	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors($\text{\AA}^2$)	Q<0.9
56	MG	1A	3571	1/1	0.99	0.02	98,98,98,98	0
56	MG	1A	3578	1/1	0.99	0.03	86,86,86,86	0
58	SF4	2d	501	8/8	0.99	0.03	95,106,118,119	0
57	ZN	25	501	1/1	1.00	0.04	97,97,97,97	0
57	ZN	19	501	1/1	1.00	0.07	77,77,77,77	0
57	ZN	15	501	1/1	1.00	0.03	87,87,87,87	0

5.5 Other polymers [i](#)

There are no such residues in this entry.