



# wwPDB X-ray Structure Validation Summary Report

Oct 9, 2014 – 04:46 PM EDT

PDB ID : 4W2G  
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with pactamycin (soaked), mRNA and three deacylated tRNAs in the A, P and E sites  
Authors : Polikanov, Y.S.; Osterman, I.A.; Szal, T.; Tashlitsky, V.N.; Serebryakova, M.V.; Kusochev, P.; Bulkley, D.; Malanicheva, I.A.; Efimenko, T.A.; Efremenkova, O.V.; Konevega, A.L.; Shaw, K.J.; Bogdanov, A.A.; Rodnina, M.V.; Dontsova, O.A.; Mankin, A.S.; Steitz, T.A.; Sergiev, P.V.  
Deposited on : 2014-09-12  
Resolution : 2.55 Å(reported)

This is a wwPDB validation summary report for a publicly released PDB entry.

We welcome your comments at [validation@mail.wwpdb.org](mailto:validation@mail.wwpdb.org)

A user guide is available at <http://wwpdb.org/ValidationPDFNotes.html>

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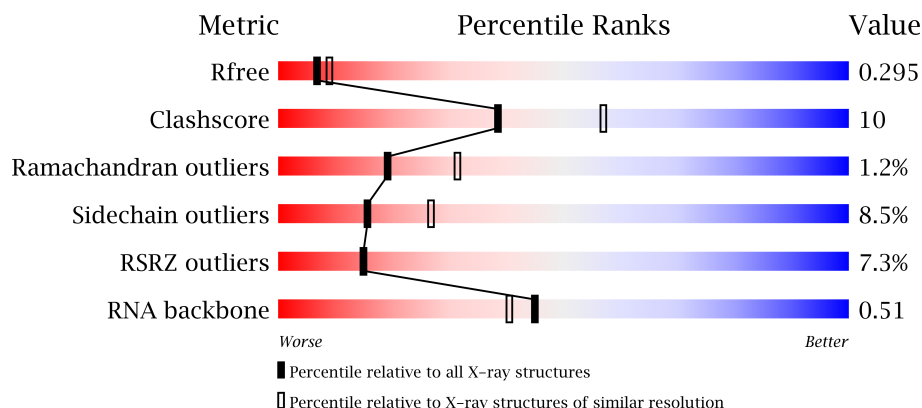
The following versions of software and data (see [references](#)) were used in the production of this report:

MolProbity : 4.02b-467  
Mogul : 1.16 November 2013  
Xtriage (Phenix) : dev-1439  
EDS : stable23828  
Percentile statistics : 21963  
Refmac : 5.8.0049  
CCP4 : 6.3.0 (Settle)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et. al. (1996)  
Validation Pipeline (wwPDB-VP) : stable23828

# 1 Overall quality at a glance

The reported resolution of this entry is 2.55 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))
$R_{free}$	66092	3413 (2.58-2.50)
Clashscore	79885	4284 (2.58-2.50)
Ramachandran outliers	78287	4193 (2.58-2.50)
Sidechain outliers	78261	4195 (2.58-2.50)
RSRZ outliers	66119	3414 (2.58-2.50)
RNA backbone	1838	1058 (3.10-1.98)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 2, 1 and 0 types of geometric quality criteria. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density.

Mol	Chain	Length	Quality of chain
1	AA	1521	
1	CA	1521	
2	AB	256	
2	CB	256	
3	AC	239	
3	CC	239	
4	AD	209	
4	CD	209	
5	AE	162	
5	CE	162	
6	AF	101	

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Mol	Chain	Length	Quality of chain
6	CF	101	
7	AG	156	
7	CG	156	
8	AH	138	
8	CH	138	
9	AI	128	
9	CI	128	
10	AJ	105	
10	CJ	105	
11	AK	129	
11	CK	129	
12	AL	132	
12	CL	132	
13	AM	126	
13	CM	126	
14	AN	61	
14	CN	61	
15	AO	89	
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AV	24	
22	CV	24	
23	AW	76	
23	AY	76	
23	CW	76	
23	CY	76	
24	AX	77	
24	CX	77	
25	BA	2915	
25	DA	2915	
26	BB	121	

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Mol	Chain	Length	Quality of chain
26	DB	121	
27	BD	276	
27	DD	276	
28	BE	206	
28	DE	206	
29	BF	210	
29	DF	210	
30	BG	182	
30	DG	182	
31	BH	180	
31	DH	180	
32	BI	148	
32	DI	148	
33	BN	140	
33	DN	140	
34	BO	122	
34	DO	122	
35	BP	150	
35	DP	150	
36	BQ	141	
36	DQ	141	
37	BR	118	
37	DR	118	
38	BS	112	
38	DS	112	
39	BT	146	
39	DT	146	
40	BU	118	
40	DU	118	
41	BV	101	
41	DV	101	
42	BW	113	
42	DW	113	
43	BX	96	
43	DX	96	
44	BY	110	
44	DY	110	
45	BZ	206	
45	DZ	206	
46	B0	85	
46	D0	85	
47	B1	98	

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Mol	Chain	Length	Quality of chain
47	D1	98	
48	B2	72	
48	D2	72	
49	B3	60	
49	D3	60	
50	B4	71	
50	D4	71	
51	B5	60	
51	D5	60	
52	B6	54	
52	D6	54	
53	B7	49	
53	D7	49	
54	B8	65	
54	D8	65	
55	B9	37	
55	D9	37	

## 2 Entry composition

There are 61 unique types of molecules in this entry. The entry contains 297273 atoms, of which 0 are hydrogen and 0 are deuterium.

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

- Molecule 1 is a RNA chain called 16S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1498	Total	C	N	O	P	0	0	0
			32205	14333	5970	10404	1498			
1	CA	1503	Total	C	N	O	P	0	0	0
			32312	14381	5990	10438	1503			

- Molecule 2 is a protein called 30S Ribosomal Protein S2.

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

- Molecule 3 is a protein called 30S Ribosomal Protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	206	Total	C	N	O	S	0	0	0
			1552	976	302	273	1			
3	CC	206	Total	C	N	O	S	0	0	0
			1542	968	300	273	1			

- Molecule 4 is a protein called 30S Ribosomal Protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	208	Total	C	N	O	S	0	0	0
			1659	1040	326	286	7			
4	CD	208	Total	C	N	O	S	0	0	0
			1674	1050	333	284	7			

- Molecule 5 is a protein called 30S Ribosomal Protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	148	Total	C	N	O	S	0	0	0
			1129	714	213	198	4			
5	CE	148	Total	C	N	O	S	0	0	0
			1133	716	214	199	4			

- Molecule 6 is a protein called 30S Ribosomal Protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	100	Total	C	N	O	S	0	0	0
			806	511	143	149	3			
6	CF	100	Total	C	N	O	S	0	0	0
			816	516	146	151	3			

- Molecule 7 is a protein called 30S Ribosomal Protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1231	766	243	216	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1235	769	244	216	6			

- Molecule 8 is a protein called 30S Ribosomal Protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			
8	CH	137	Total	C	N	O	S	0	0	0
			1088	689	206	191	2			

- Molecule 9 is a protein called 30S Ribosomal Protein S9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O		0	0	0
			983	623	193	167				
9	CI	127	Total	C	N	O		0	0	0
			978	619	190	169				

- Molecule 10 is a protein called 30S Ribosomal Protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	97	Total	C	N	O		0	0	0
			709	440	138	131				

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	CJ	96	Total	C	N	O			
			714	445	138	131	0	0	0

- Molecule 11 is a protein called 30S Ribosomal Protein S11.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
11	AK	114	Total	C	N	O	S		
			829	516	155	155	3	0	0
11	CK	114	Total	C	N	O	S		
			833	519	156	155	3	0	0

- Molecule 12 is a protein called 30S Ribosomal Protein S12.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	AL	122	Total	C	N	O	S		
			930	585	185	159	1	0	0
12	CL	122	Total	C	N	O	S		
			930	585	185	159	1	0	0

- Molecule 13 is a protein called 30S Ribosomal Protein S13.

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

- Molecule 14 is a protein called 30S Ribosomal Protein S14.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S		
			492	312	104	72	4	0	0
14	CN	60	Total	C	N	O	S		
			492	312	104	72	4	0	0

- Molecule 15 is a protein called 30S Ribosomal Protein S15.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S		
			728	456	144	126	2	0	0
15	CO	88	Total	C	N	O	S		
			728	456	144	126	2	0	0



- Molecule 16 is a protein called 30S Ribosomal Protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	82	Total	C	N	O	S	0	0	0
			681	433	134	113	1			
16	CP	82	Total	C	N	O	S	0	0	0
			677	430	133	113	1			

- Molecule 17 is a protein called 30S Ribosomal Protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			
17	CQ	99	Total	C	N	O	S	0	0	0
			823	528	151	142	2			

- Molecule 18 is a protein called 30S Ribosomal Protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	68	Total	C	N	O	0	0	0
			555	355	108	92			
18	CR	68	Total	C	N	O	0	0	0
			555	355	108	92			

- Molecule 19 is a protein called 30S Ribosomal Protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	83	Total	C	N	O	S	0	0	0
			652	417	120	113	2			
19	CS	83	Total	C	N	O	S	0	0	0
			646	412	119	113	2			

- Molecule 20 is a protein called 30S Ribosomal Protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	96	Total	C	N	O	S	0	0	0
			728	446	156	124	2			
20	CT	96	Total	C	N	O	S	0	0	0
			727	446	155	124	2			

- Molecule 21 is a protein called 30S Ribosomal Protein THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	23	Total	C	N	O	0	0	0
			199	122	48	29			
21	CU	23	Total	C	N	O	0	0	0
			199	122	48	29			

- Molecule 22 is a RNA chain called mRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			
22	CV	13	Total	C	N	O	P	0	0	0
			277	125	51	88	13			

- Molecule 23 is a RNA chain called A/P-site tRNA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
23	AW	74	Total	C	N	O	P	S	0	0	0
			1588	713	285	515	73	2			
23	AY	74	Total	C	N	O	P	S	0	0	0
			1581	707	285	515	73	1			
23	CW	72	Total	C	N	O	P	S	0	0	0
			1541	688	278	502	72	1			
23	CY	73	Total	C	N	O	P	S	0	0	0
			1561	698	283	507	72	1			

- Molecule 24 is a RNA chain called E-site tRNA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
24	AX	76	Total	C	N	O	P	S	0	0	0
			1625	725	294	529	76	1			
24	CX	76	Total	C	N	O	P	S	0	0	0
			1625	725	294	529	76	1			

- Molecule 25 is a RNA chain called 23S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BA	2819	Total	C	N	O	P	0	0	0
			60729	27026	11370	19515	2818			
25	DA	2800	Total	C	N	O	P	0	0	0
			60311	26840	11284	19388	2799			

- Molecule 26 is a RNA chain called 5S Ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BB	120	Total	C	N	O	P	0	0	0
			2573	1146	476	832	119			
26	DB	120	Total	C	N	O	P	0	0	0
			2573	1146	476	832	119			

- Molecule 27 is a protein called 50S Ribosomal Protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BD	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			
27	DD	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

- Molecule 28 is a protein called 50S Ribosomal Protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BE	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			
28	DE	204	Total	C	N	O	S	0	0	0
			1559	985	298	270	6			

- Molecule 29 is a protein called 50S Ribosomal Protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BF	203	Total	C	N	O	S	0	0	1
			1584	1009	298	275	2			
29	DF	203	Total	C	N	O	S	0	0	1
			1580	1007	297	274	2			

- Molecule 30 is a protein called 50S Ribosomal Protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BG	181	Total	C	N	O	S	0	0	0
			1425	914	256	251	4			
30	DG	181	Total	C	N	O	S	0	0	0
			1424	911	258	251	4			

- Molecule 31 is a protein called 50S Ribosomal Protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	DH	174	Total	C	N	O	S	0	0	0
			1330	845	248	236	1			

- Molecule 32 is a protein called 50S Ribosomal Protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BI	146	Total	C	N	O	S	0	0	0
			1085	693	189	202	1			
32	DI	146	Total	C	N	O	S	0	0	0
			1061	680	186	194	1			

- Molecule 33 is a protein called 50S Ribosomal Protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BN	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			
33	DN	140	Total	C	N	O	S	0	0	0
			1117	719	207	187	4			

- Molecule 34 is a protein called 50S Ribosomal Protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			
34	DO	122	Total	C	N	O	S	0	0	0
			933	588	171	170	4			

- Molecule 35 is a protein called 50S Ribosomal Protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BP	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			
35	DP	149	Total	C	N	O	S	0	0	0
			1135	706	230	196	3			

- Molecule 36 is a protein called 50S Ribosomal Protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			
36	DQ	141	Total	C	N	O	S	0	0	0
			1122	715	212	188	7			

- Molecule 37 is a protein called 50S Ribosomal Protein L17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BR	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			
37	DR	118	Total	C	N	O	S	0	0	0
			968	604	203	160	1			

- Molecule 38 is a protein called 50S Ribosomal Protein L18.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	BS	110	Total	C	N	O		0	0	0
			877	553	175	149				
38	DS	110	Total	C	N	O		0	0	0
			870	549	173	148				

- Molecule 39 is a protein called 50S Ribosomal Protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	BT	131	Total	C	N	O	S	0	0	0
			1091	680	225	185	1			
39	DT	131	Total	C	N	O	S	0	0	0
			1083	675	224	183	1			

- Molecule 40 is a protein called 50S Ribosomal Protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BU	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			
40	DU	116	Total	C	N	O	S	0	0	0
			959	608	201	149	1			

- Molecule 41 is a protein called 50S Ribosomal Protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BV	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			
41	DV	101	Total	C	N	O	S	0	0	0
			771	495	140	135	1			

- Molecule 42 is a protein called 50S Ribosomal Protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BW	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			
42	DW	112	Total	C	N	O	S	0	0	0
			886	557	174	153	2			

- Molecule 43 is a protein called 50S Ribosomal Protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BX	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			
43	DX	95	Total	C	N	O	S	0	0	0
			750	488	135	126	1			

- Molecule 44 is a protein called 50S Ribosomal Protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	BY	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			
44	DY	107	Total	C	N	O	S	0	0	0
			806	517	152	131	6			

- Molecule 45 is a protein called 50S Ribosomal Protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BZ	171	Total	C	N	O	S	0	0	0
			1349	862	243	242	2			
45	DZ	174	Total	C	N	O	S	0	0	0
			1360	870	243	245	2			

- Molecule 46 is a protein called 50S Ribosomal Protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	B0	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			
46	D0	83	Total	C	N	O	S	0	0	0
			653	404	139	109	1			

- Molecule 47 is a protein called 50S Ribosomal Protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	B1	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	D1	97	Total	C	N	O	S	0	0	0
			755	475	148	131	1			

- Molecule 48 is a protein called 50S Ribosomal Protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B2	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			
48	D2	70	Total	C	N	O	S	0	0	0
			588	365	118	103	2			

- Molecule 49 is a protein called 50S Ribosomal Protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	B3	59	Total	C	N	O	0	0	0
			469	298	90	81			
49	D3	59	Total	C	N	O	0	0	0
			464	296	90	78			

- Molecule 50 is a protein called 50S Ribosomal Protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B4	69	Total	C	N	O	S	0	0	0
			558	352	102	99	5			
50	D4	69	Total	C	N	O	S	0	0	0
			532	339	97	91	5			

- Molecule 51 is a protein called 50S Ribosomal Protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B5	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			
51	D5	59	Total	C	N	O	S	0	0	0
			455	285	89	76	5			

- Molecule 52 is a protein called 50S Ribosomal Protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B6	53	Total	C	N	O	S	0	0	0
			453	281	91	77	4			
52	D6	53	Total	C	N	O	S	0	0	0
			449	279	91	75	4			

- Molecule 53 is a protein called 50S Ribosomal Protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B7	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			
53	D7	48	Total	C	N	O	S	0	0	0
			418	257	104	55	2			

- Molecule 54 is a protein called 50S Ribosomal Protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B8	64	Total	C	N	O	S	0	0	0
			511	328	99	82	2			
54	D8	64	Total	C	N	O	S	0	0	0
			517	331	102	82	2			

- Molecule 55 is a protein called 50S Ribosomal Protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	B9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			
55	D9	37	Total	C	N	O	S	0	0	0
			307	188	68	47	4			

- Molecule 56 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	B4	1	Total	Mg	0	0
			1	1		
56	BA	839	Total	Mg	0	0
			839	839		
56	AK	2	Total	Mg	0	0
			2	2		
56	DQ	4	Total	Mg	0	0
			4	4		
56	D3	1	Total	Mg	0	0
			1	1		
56	DF	5	Total	Mg	0	0
			5	5		
56	CV	1	Total	Mg	0	0
			1	1		
56	B8	3	Total	Mg	0	0
			3	3		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	BE	8	Total 8	Mg 8	0	0
56	AW	7	Total 7	Mg 7	0	0
56	DU	2	Total 2	Mg 2	0	0
56	B1	2	Total 2	Mg 2	0	0
56	AN	1	Total 1	Mg 1	0	0
56	BP	3	Total 3	Mg 3	0	0
56	AX	12	Total 12	Mg 12	0	0
56	DN	1	Total 1	Mg 1	0	0
56	CY	1	Total 1	Mg 1	0	0
56	CA	177	Total 177	Mg 177	0	0
56	B5	4	Total 4	Mg 4	0	0
56	BB	23	Total 23	Mg 23	0	0
56	D8	1	Total 1	Mg 1	0	0
56	AE	1	Total 1	Mg 1	0	0
56	DG	1	Total 1	Mg 1	0	0
56	B9	1	Total 1	Mg 1	0	0
56	BF	12	Total 12	Mg 12	0	0
56	AV	1	Total 1	Mg 1	0	0
56	BX	2	Total 2	Mg 2	0	0
56	B2	1	Total 1	Mg 1	0	0
56	AA	230	Total 230	Mg 230	0	0

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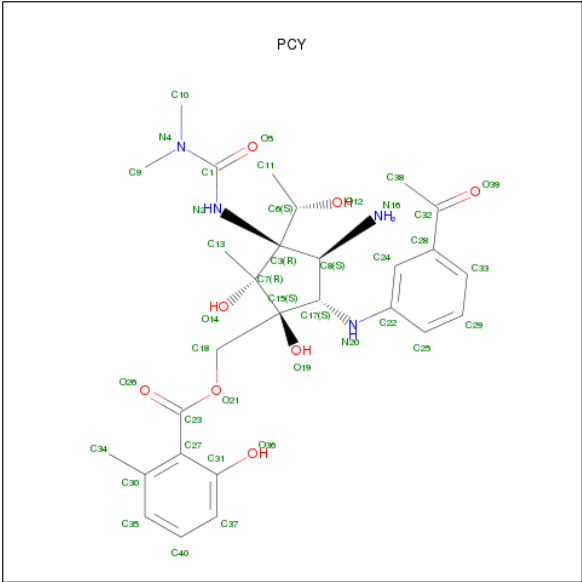
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	BQ	5	Total 5	Mg 5	0	0
56	D7	2	Total 2	Mg 2	0	0
56	CX	5	Total 5	Mg 5	0	0
56	DV	3	Total 3	Mg 3	0	0
56	B6	2	Total 2	Mg 2	0	0
56	AM	1	Total 1	Mg 1	0	0
56	BU	9	Total 9	Mg 9	0	0
56	DR	1	Total 1	Mg 1	0	0
56	AD	1	Total 1	Mg 1	0	0
56	BN	5	Total 5	Mg 5	0	0
56	CT	1	Total 1	Mg 1	0	0
56	D0	2	Total 2	Mg 2	0	0
56	BG	3	Total 3	Mg 3	0	0
56	BY	1	Total 1	Mg 1	0	0
56	DE	4	Total 4	Mg 4	0	0
56	B3	3	Total 3	Mg 3	0	0
56	CJ	1	Total 1	Mg 1	0	0
56	BR	5	Total 5	Mg 5	0	0
56	DA	675	Total 675	Mg 675	0	0
56	DW	3	Total 3	Mg 3	0	0
56	B7	2	Total 2	Mg 2	0	0

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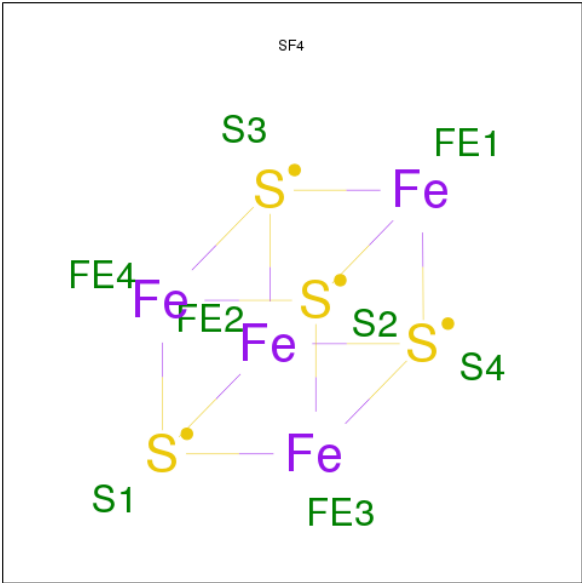
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	CF	1	Total 1	Mg 1	0	0
56	BV	5	Total 5	Mg 5	0	0
56	DO	1	Total 1	Mg 1	0	0
56	BO	1	Total 1	Mg 1	0	0
56	BZ	1	Total 1	Mg 1	0	0
56	DY	1	Total 1	Mg 1	0	0
56	CW	2	Total 2	Mg 2	0	0
56	BD	11	Total 11	Mg 11	0	0
56	B0	3	Total 3	Mg 3	0	0
56	CE	2	Total 2	Mg 2	0	0
56	BW	3	Total 3	Mg 3	0	0
56	AY	3	Total 3	Mg 3	0	0
56	DD	7	Total 7	Mg 7	0	0
56	AF	1	Total 1	Mg 1	0	0
56	DB	11	Total 11	Mg 11	0	0

- Molecule 57 is PACTAMYCIN (three-letter code: PCY) (formula:  $C_{28}H_{38}N_4O_8$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
57	AA	1	Total	C	N	O	0	0
			40	28	4	8		
57	CA	1	Total	C	N	O	0	0
			40	28	4	8		

- Molecule 58 is IRON/SULFUR CLUSTER (three-letter code: SF4) (formula: Fe<sub>4</sub>S<sub>4</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
58	AD	1	Total	Fe	S	0	0
			8	4	4		
58	CD	1	Total	Fe	S	0	0
			8	4	4		

- Molecule 59 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	B5	1	Total	Zn	0	0
			1	1		
59	B4	1	Total	Zn	0	0
			1	1		
59	CN	1	Total	Zn	0	0
			1	1		
59	BY	1	Total	Zn	0	0
			1	1		
59	B9	1	Total	Zn	0	0
			1	1		
59	DY	1	Total	Zn	0	0
			1	1		
59	D5	1	Total	Zn	0	0
			1	1		
59	D4	1	Total	Zn	0	0
			1	1		
59	AN	1	Total	Zn	0	0
			1	1		
59	D6	1	Total	Zn	0	0
			1	1		
59	D9	1	Total	Zn	0	0
			1	1		
59	B6	1	Total	Zn	0	0
			1	1		

- Molecule 60 is POTASSIUM ION (three-letter code: K) (formula: K).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
60	AX	1	Total	K	0	0
			1	1		
60	CX	1	Total	K	0	0
			1	1		

- Molecule 61 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	AA	226	Total	O	0	0
			226	226		
61	AE	3	Total	O	0	0
			3	3		
61	AJ	1	Total	O	0	0
			1	1		

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	AL	4	Total 4	O 4	0	0
61	AM	1	Total 1	O 1	0	0
61	AV	4	Total 4	O 4	0	0
61	AW	6	Total 6	O 6	0	0
61	AX	8	Total 8	O 8	0	0
61	AY	3	Total 3	O 3	0	0
61	BA	1411	Total 1411	O 1411	0	0
61	BB	36	Total 36	O 36	0	0
61	BD	16	Total 16	O 16	0	0
61	BE	13	Total 13	O 13	0	0
61	BF	7	Total 7	O 7	0	0
61	BG	3	Total 3	O 3	0	0
61	BI	1	Total 1	O 1	0	0
61	BN	2	Total 2	O 2	0	0
61	BO	3	Total 3	O 3	0	0
61	BP	17	Total 17	O 17	0	0
61	BQ	2	Total 2	O 2	0	0
61	BR	2	Total 2	O 2	0	0
61	BT	1	Total 1	O 1	0	0
61	BU	6	Total 6	O 6	0	0
61	BV	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	BW	4	Total 4	O 4	0	0
61	BX	1	Total 1	O 1	0	0
61	B0	4	Total 4	O 4	0	0
61	B1	2	Total 2	O 2	0	0
61	B3	2	Total 2	O 2	0	0
61	B5	5	Total 5	O 5	0	0
61	B6	1	Total 1	O 1	0	0
61	B7	3	Total 3	O 3	0	0
61	B8	11	Total 11	O 11	0	0
61	CA	173	Total 173	O 173	0	0
61	CJ	2	Total 2	O 2	0	0
61	CL	1	Total 1	O 1	0	0
61	CV	2	Total 2	O 2	0	0
61	CW	1	Total 1	O 1	0	0
61	CX	4	Total 4	O 4	0	0
61	DA	1002	Total 1002	O 1002	0	0
61	DB	10	Total 10	O 10	0	0
61	DD	17	Total 17	O 17	0	0
61	DE	11	Total 11	O 11	0	0
61	DF	5	Total 5	O 5	0	0
61	DN	2	Total 2	O 2	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	DO	2	Total	O	0	0
			2	2		
61	DP	8	Total	O	0	0
			8	8		
61	DQ	1	Total	O	0	0
			1	1		
61	DR	1	Total	O	0	0
			1	1		
61	DU	2	Total	O	0	0
			2	2		
61	DW	1	Total	O	0	0
			1	1		
61	DY	1	Total	O	0	0
			1	1		
61	D0	5	Total	O	0	0
			5	5		
61	D3	1	Total	O	0	0
			1	1		
61	D7	3	Total	O	0	0
			3	3		
61	D8	4	Total	O	0	0
			4	4		

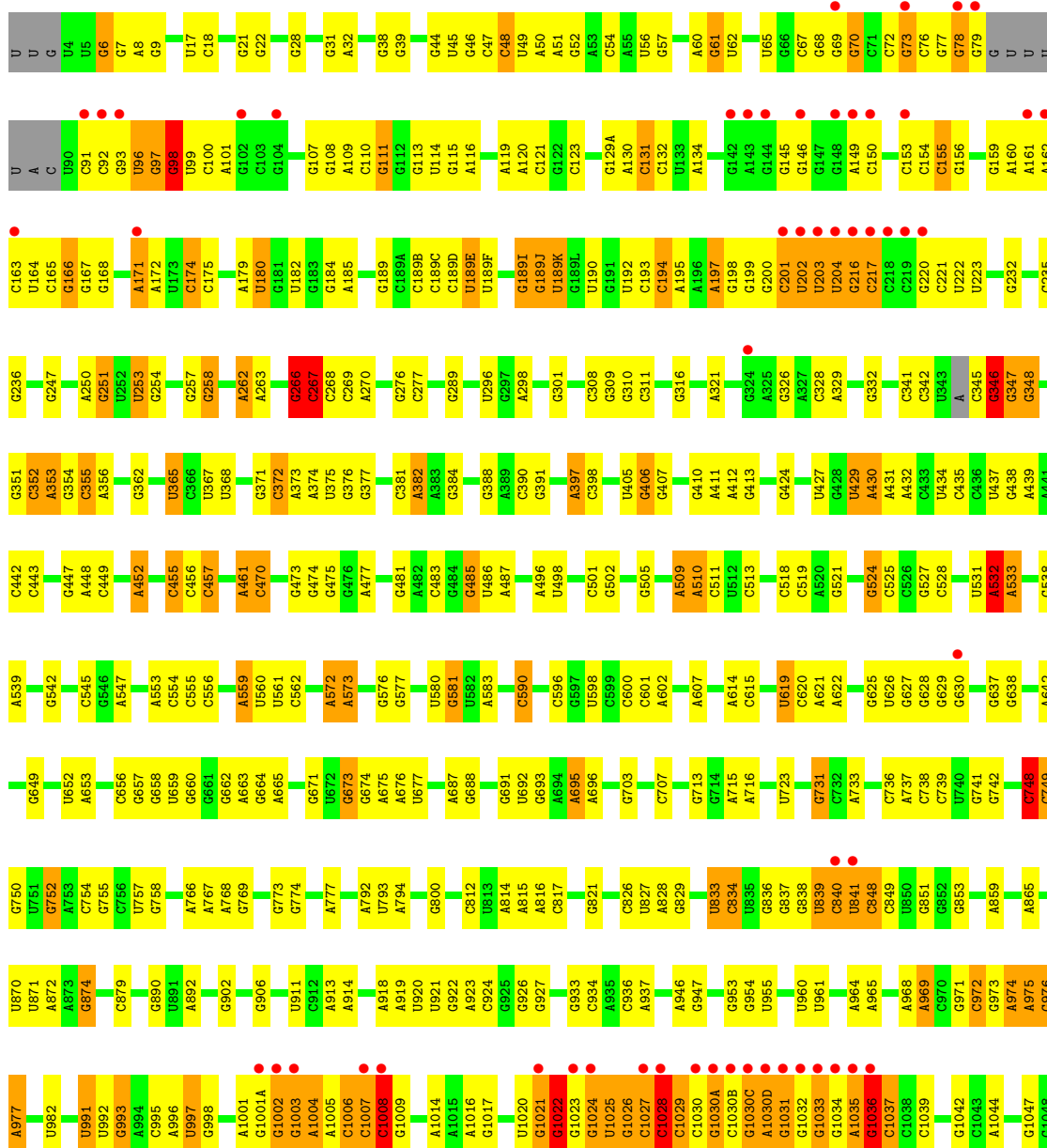


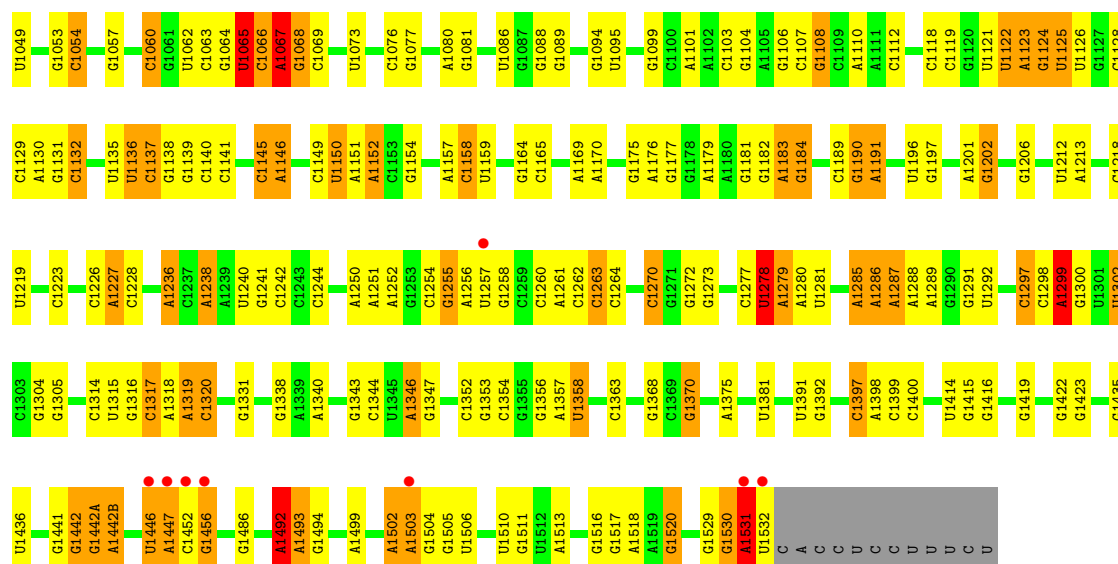
### 3 Residue-property plots

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

#### • Molecule 1: 16S Ribosomal RNA

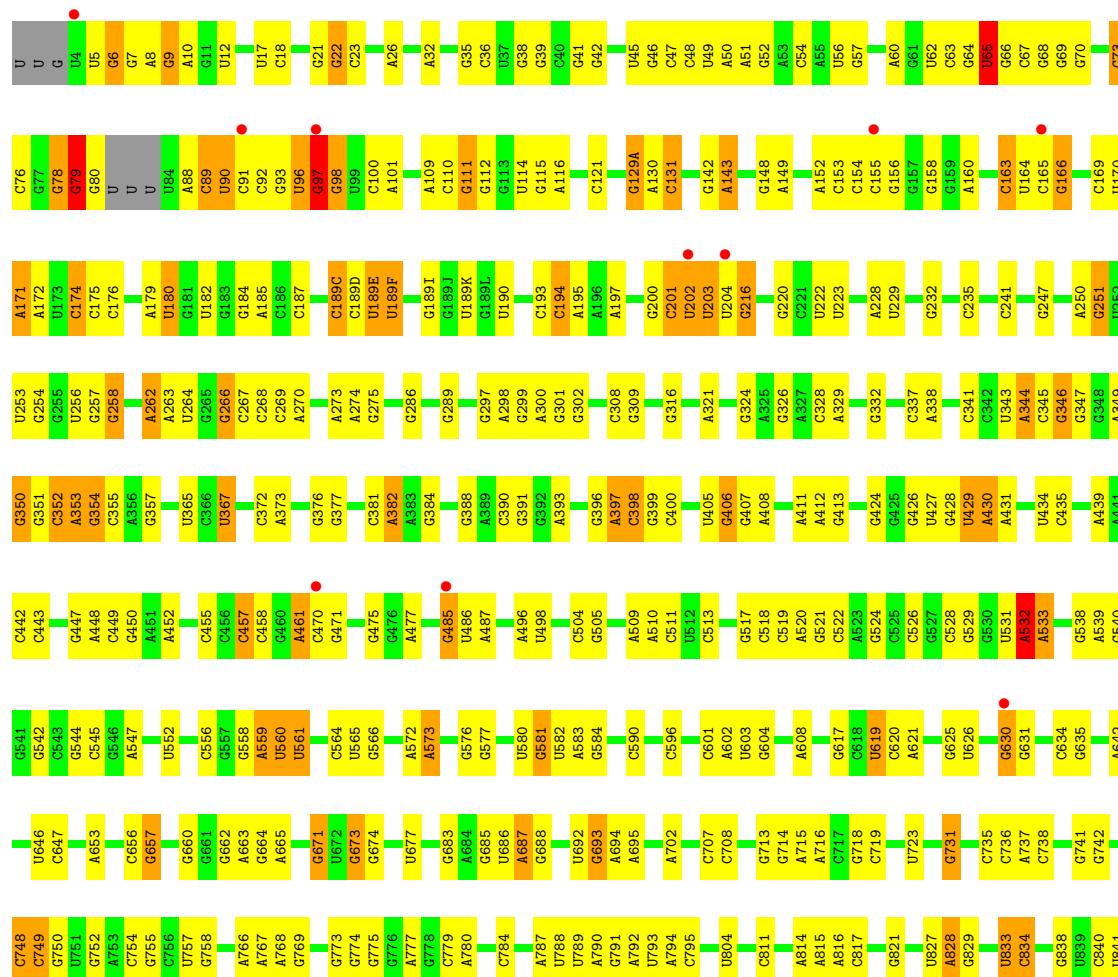
Chain AA: 

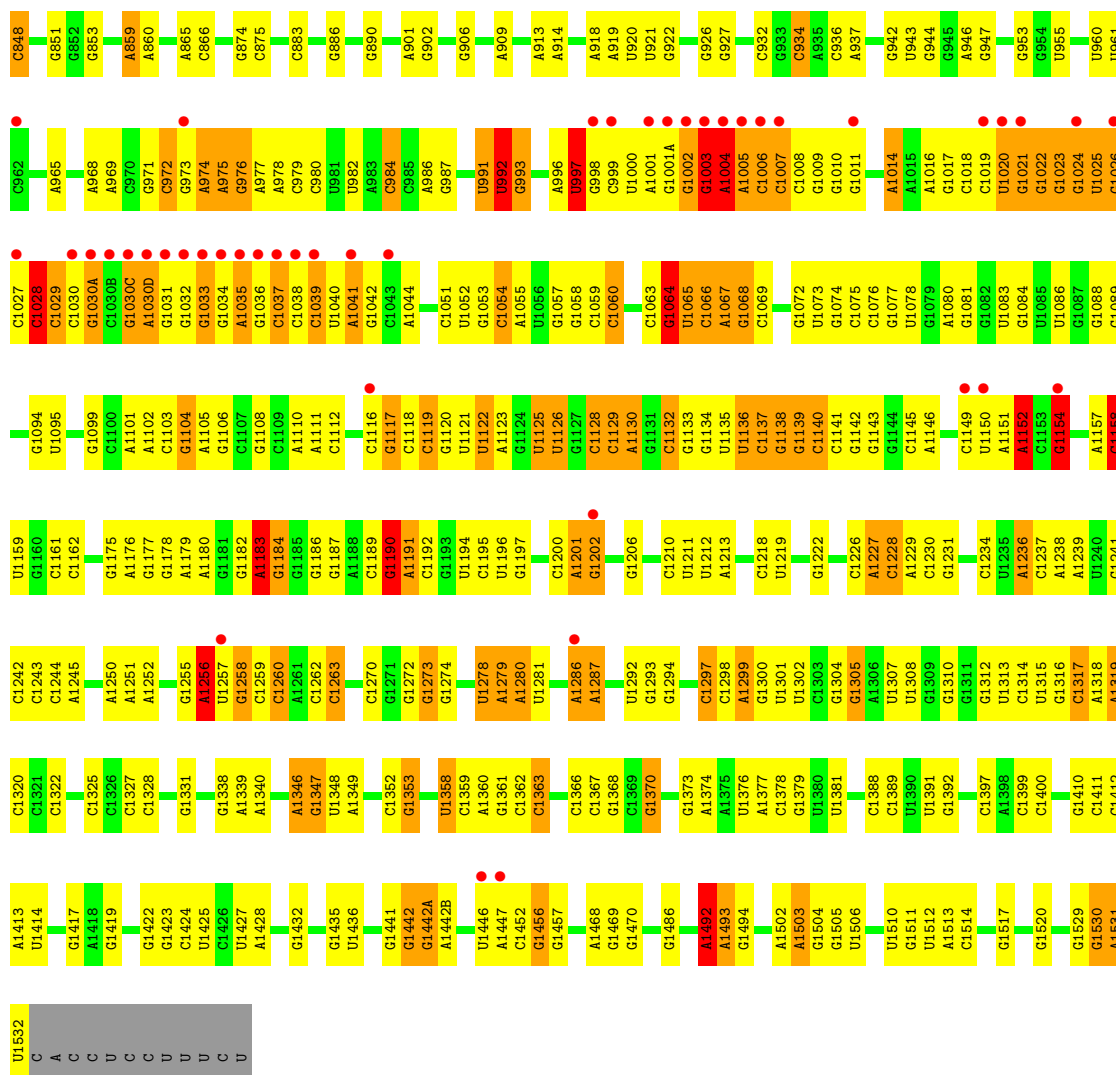




• Molecule 1: 16S Ribosomal RNA

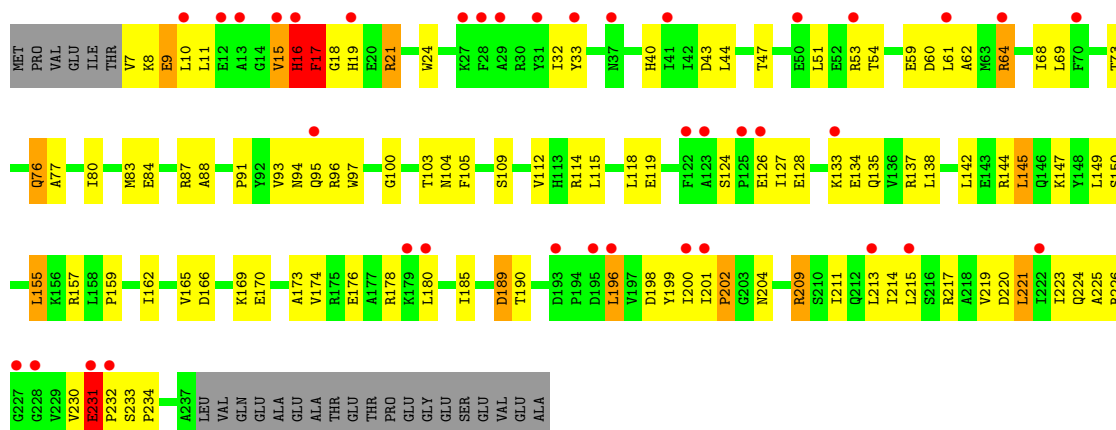
Chain CA:





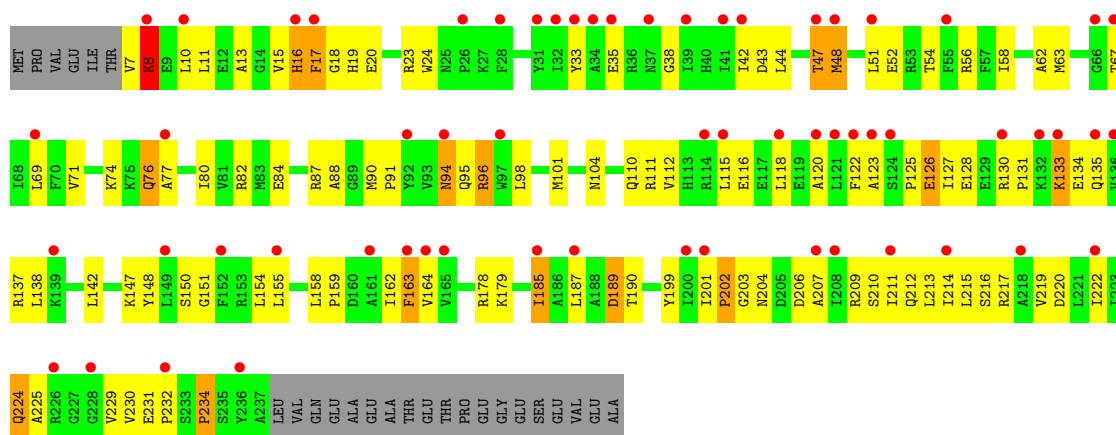
### • Molecule 2: 30S Ribosomal Protein S2

Chain AB:



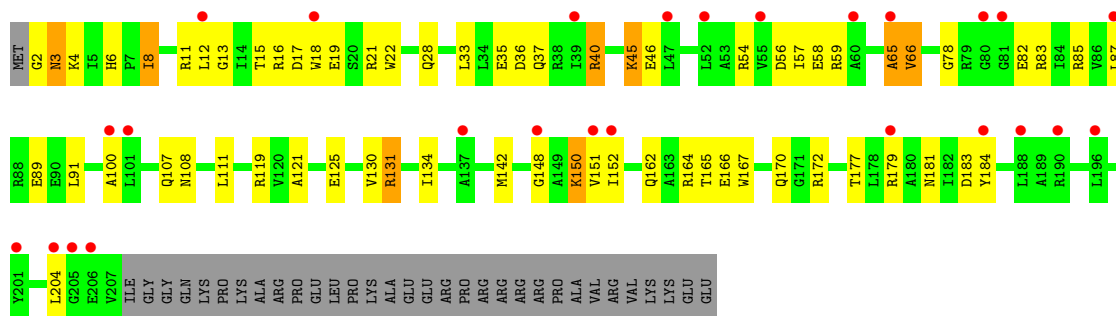
### • Molecule 2: 30S Ribosomal Protein S2

Chain CB:



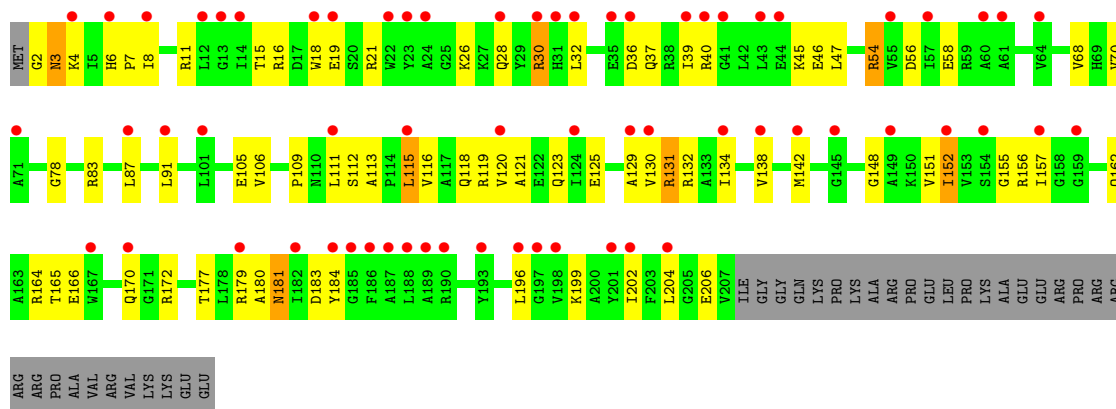
• Molecule 3: 30S Ribosomal Protein S3

Chain AC:



• Molecule 3: 30S Ribosomal Protein S3

Chain CC:



• Molecule 4: 30S Ribosomal Protein S4

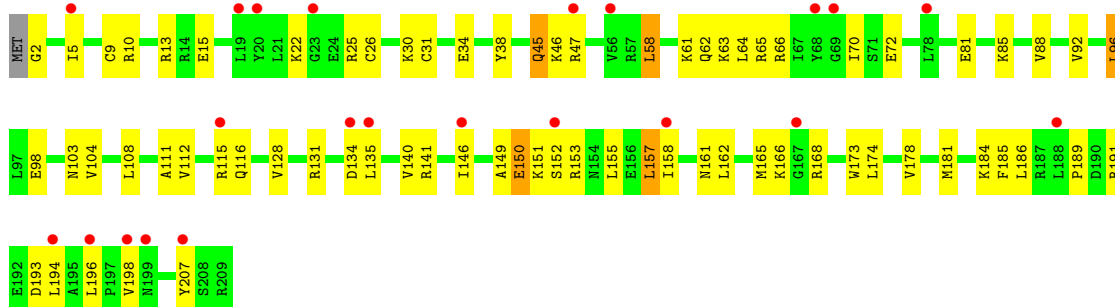
Chain AD:





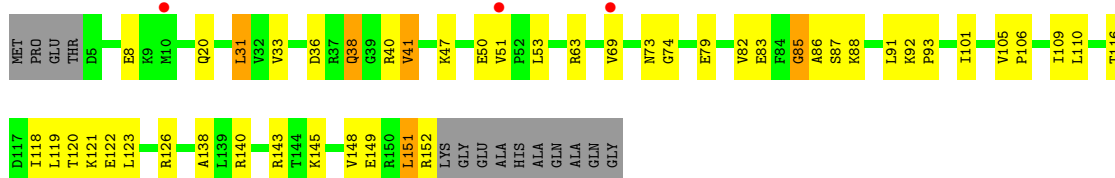
• Molecule 4: 30S Ribosomal Protein S4

Chain CD:



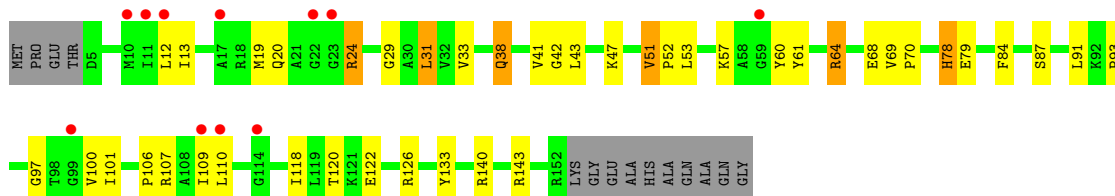
• Molecule 5: 30S Ribosomal Protein S5

Chain AE:



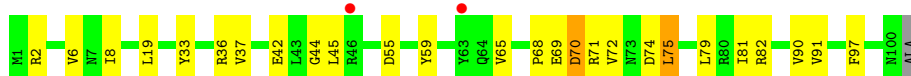
• Molecule 5: 30S Ribosomal Protein S5

Chain CE:



• Molecule 6: 30S Ribosomal Protein S6

Chain AF:



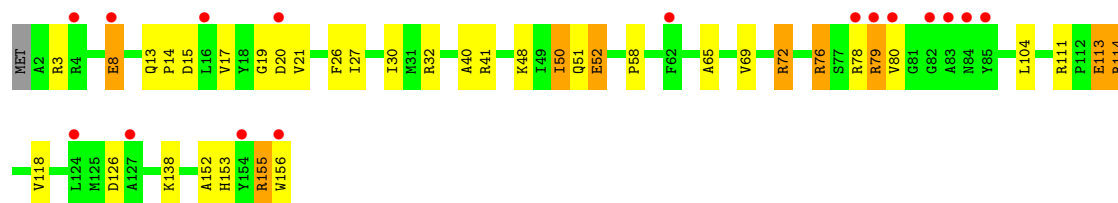
• Molecule 6: 30S Ribosomal Protein S6

Chain CF:



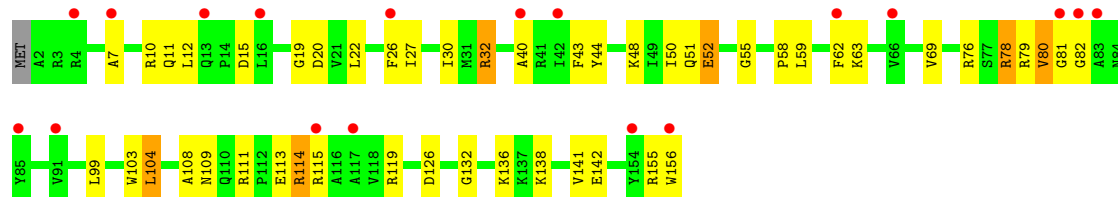
• Molecule 7: 30S Ribosomal Protein S7

Chain AG: 



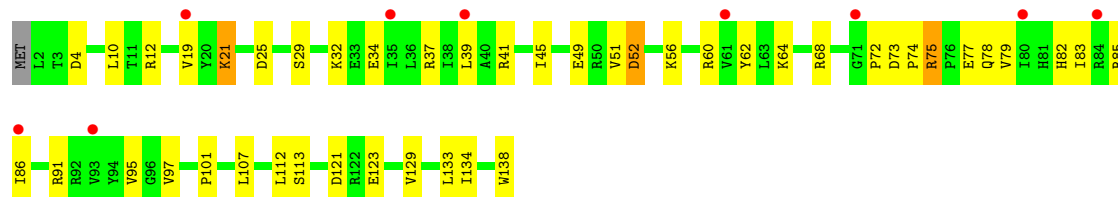
- Molecule 7: 30S Ribosomal Protein S7

Chain CG: 



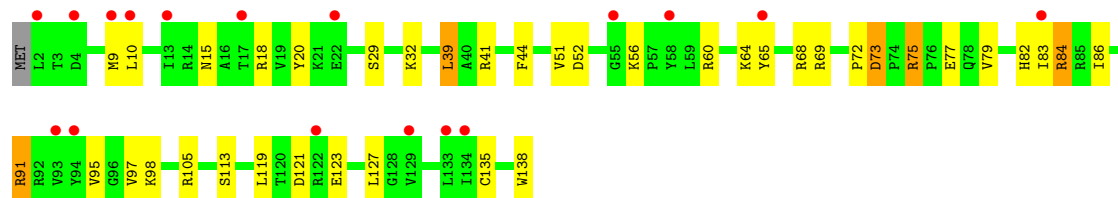
- Molecule 8: 30S Ribosomal Protein S8

Chain AH: 



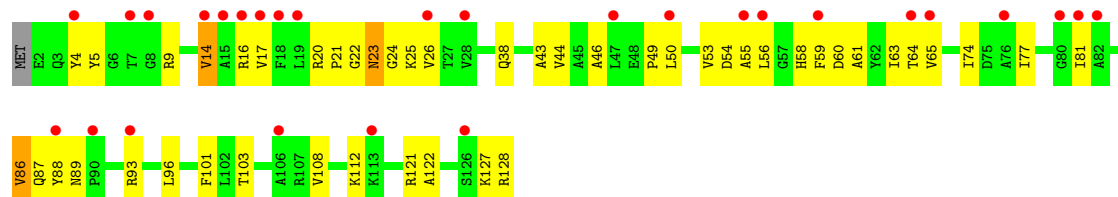
- Molecule 8: 30S Ribosomal Protein S8

Chain CH: 



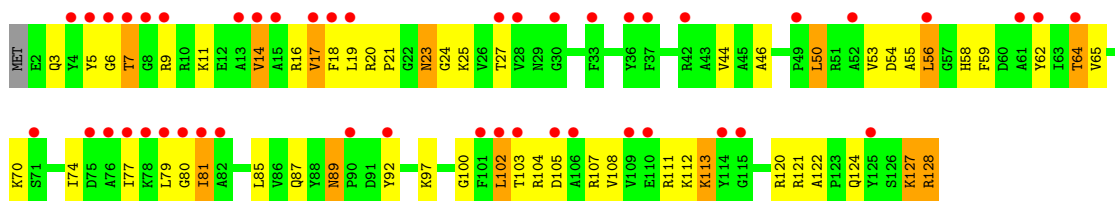
- Molecule 9: 30S Ribosomal Protein S9

Chain AI: 



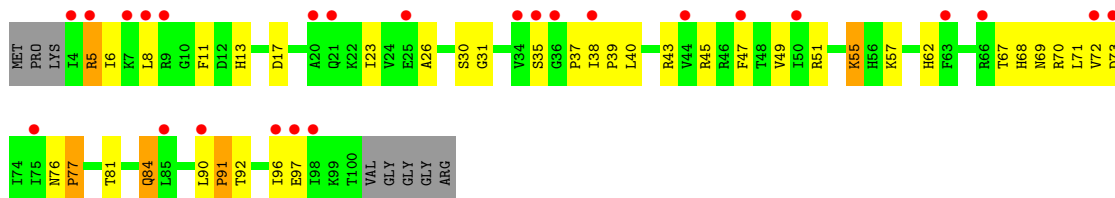
- Molecule 9: 30S Ribosomal Protein S9

Chain CI: 



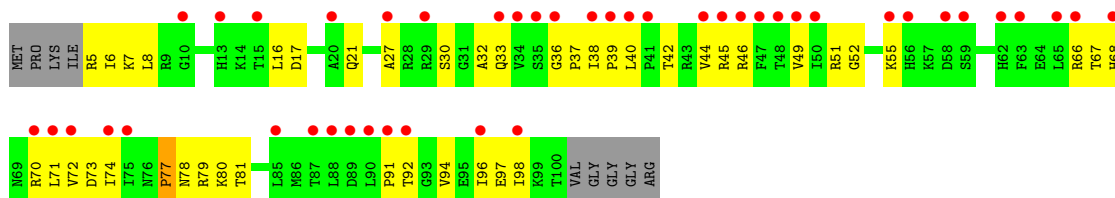
• Molecule 10: 30S Ribosomal Protein S10

Chain AJ:



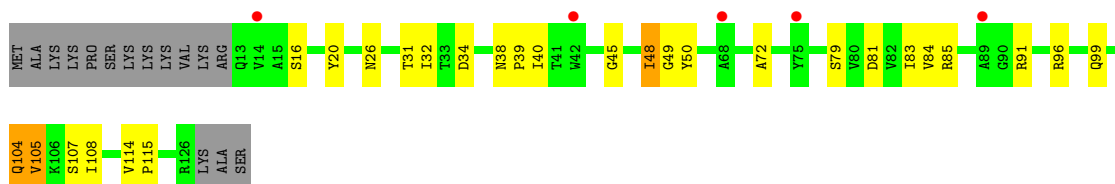
• Molecule 10: 30S Ribosomal Protein S10

Chain CJ:



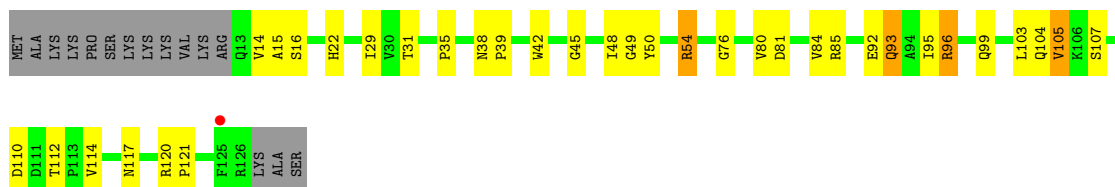
• Molecule 11: 30S Ribosomal Protein S11

Chain AK:



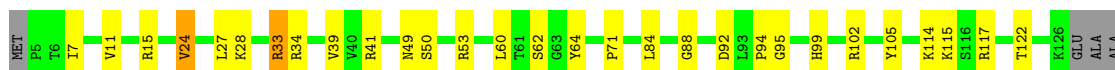
• Molecule 11: 30S Ribosomal Protein S11

Chain CK:



• Molecule 12: 30S Ribosomal Protein S12

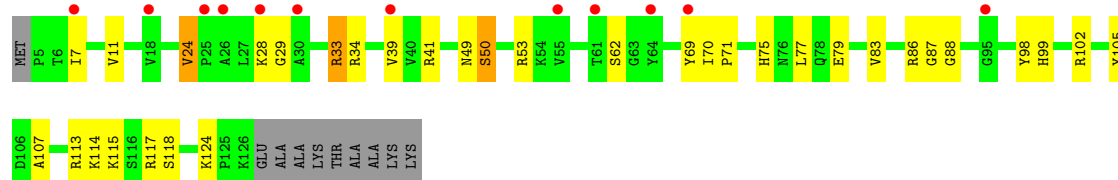
Chain AL:



LYS  
THR  
ALA  
LYS  
LYS

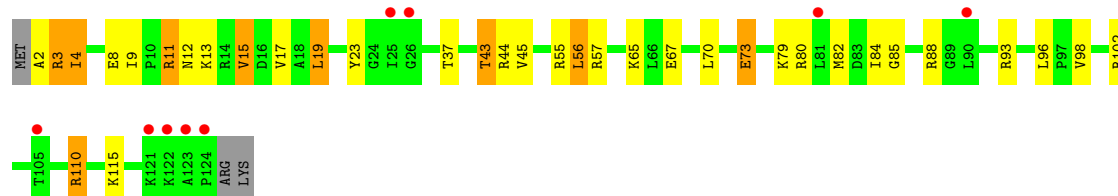
• Molecule 12: 30S Ribosomal Protein S12

Chain CL:



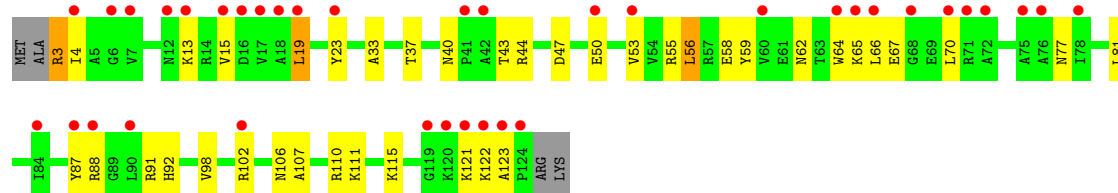
• Molecule 13: 30S Ribosomal Protein S13

Chain AM:



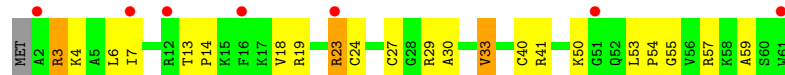
• Molecule 13: 30S Ribosomal Protein S13

Chain CM:



• Molecule 14: 30S Ribosomal Protein S14

Chain AN:



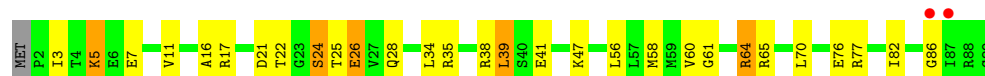
• Molecule 14: 30S Ribosomal Protein S14

Chain CN:



• Molecule 15: 30S Ribosomal Protein S15

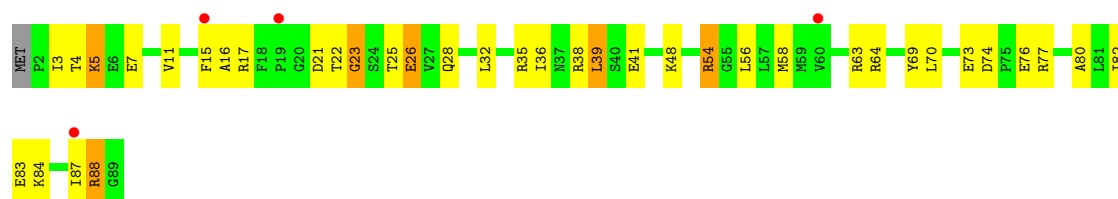
Chain AO:





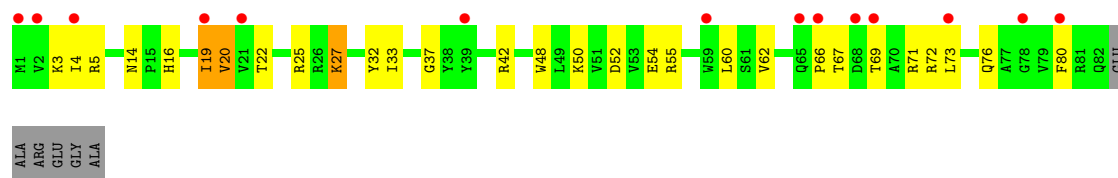
- Molecule 15: 30S Ribosomal Protein S15

Chain CO:



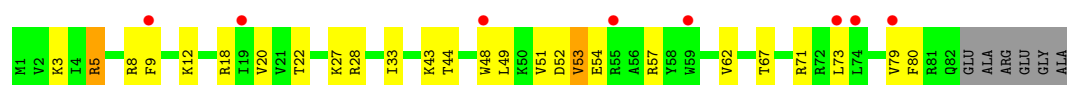
- Molecule 16: 30S Ribosomal Protein S16

Chain AP:



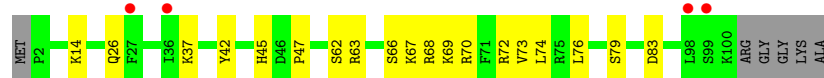
- Molecule 16: 30S Ribosomal Protein S16

Chain CP:



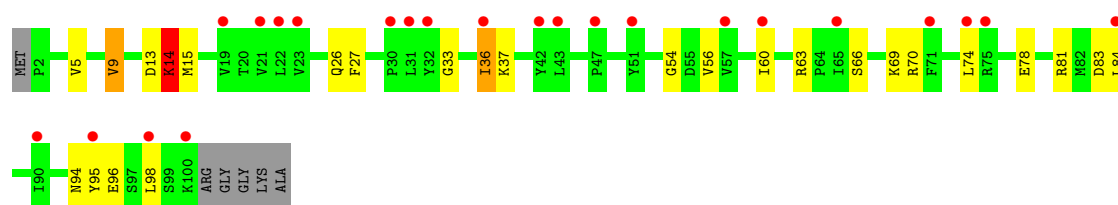
- Molecule 17: 30S Ribosomal Protein S17

Chain AQ:



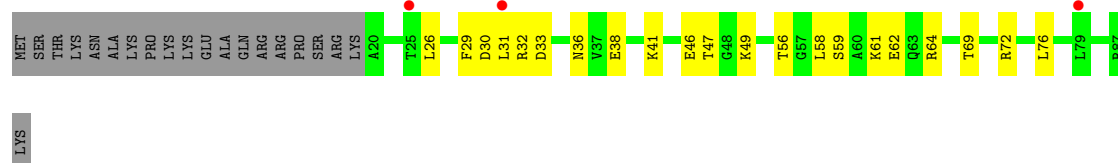
- Molecule 17: 30S Ribosomal Protein S17

Chain CQ:

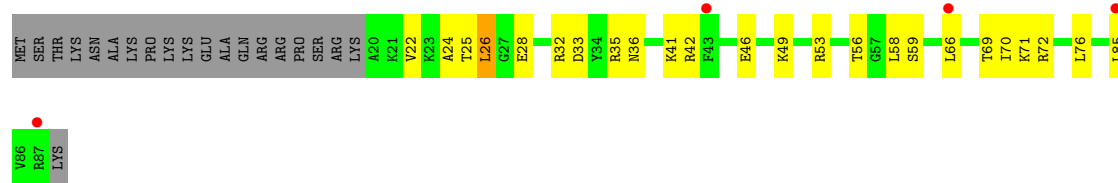


- Molecule 18: 30S Ribosomal Protein S18

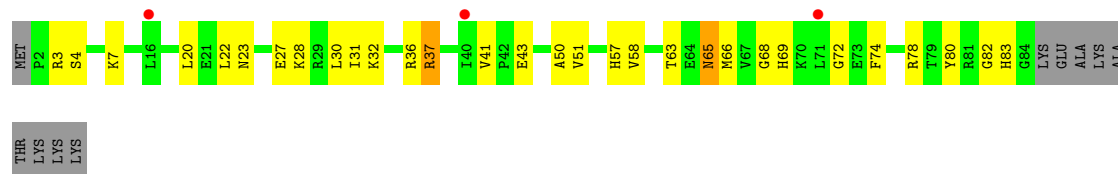
Chain AR:



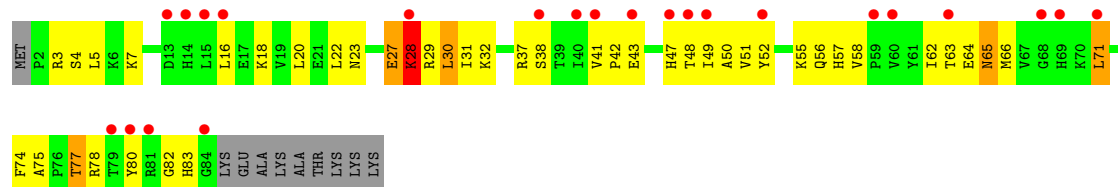
- Molecule 18: 30S Ribosomal Protein S18

Chain CR: 

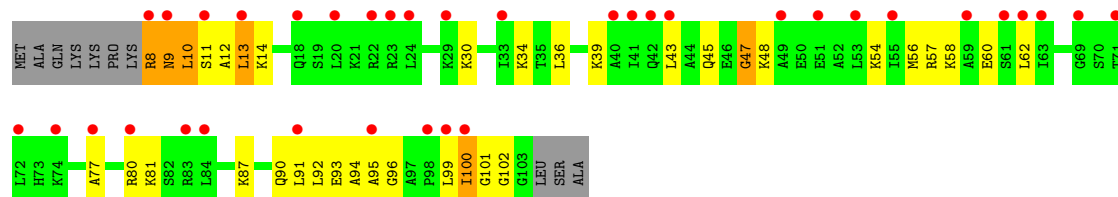
- Molecule 19: 30S Ribosomal Protein S19

Chain AS: 

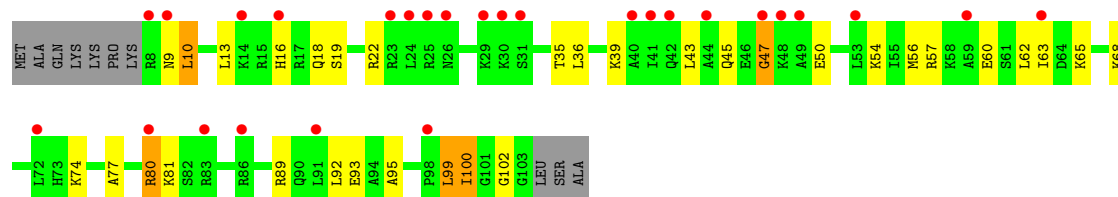
- Molecule 19: 30S Ribosomal Protein S19

Chain CS: 

- Molecule 20: 30S Ribosomal Protein S20

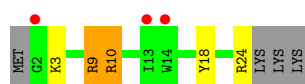
Chain AT: 

- Molecule 20: 30S Ribosomal Protein S20

Chain CT: 

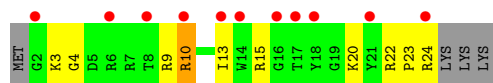
- Molecule 21: 30S Ribosomal Protein THX

Chain AU: 



- Molecule 21: 30S Ribosomal Protein THX

Chain CU:



- Molecule 22: mRNA

Chain AV:



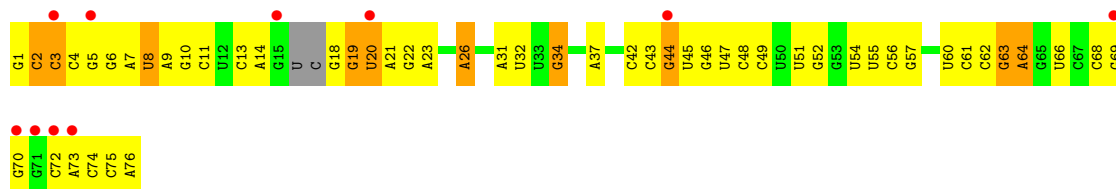
- Molecule 22: mRNA

Chain CV:



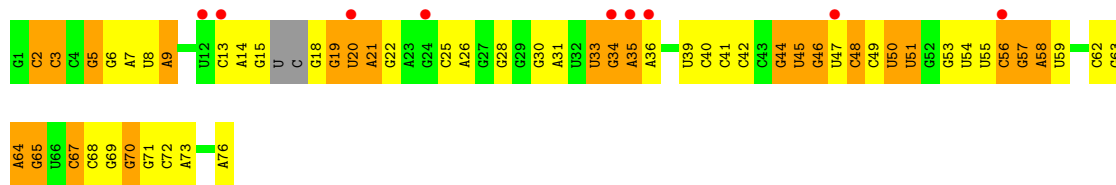
- Molecule 23: A/P-site tRNA

Chain AW:



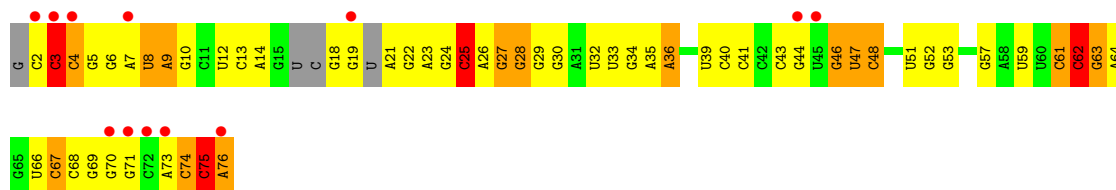
- Molecule 23: A/P-site tRNA

Chain AY:

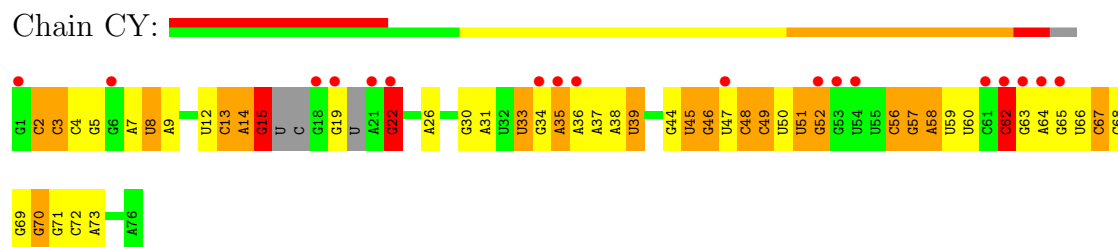


- Molecule 23: A/P-site tRNA

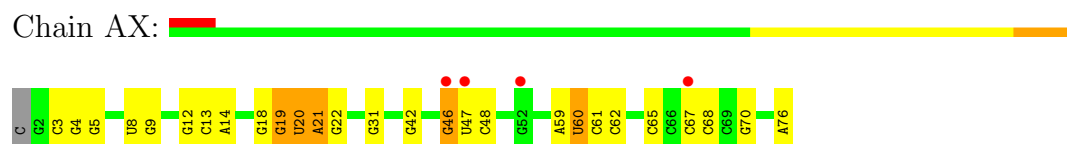
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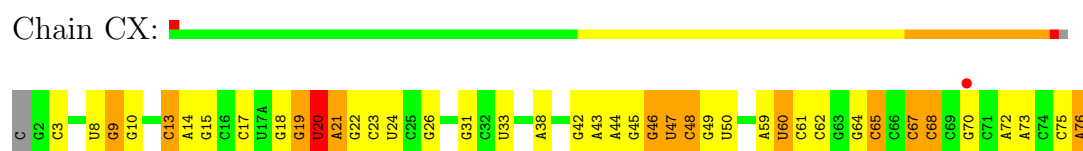
- Molecule 23: A/P-site tRNA



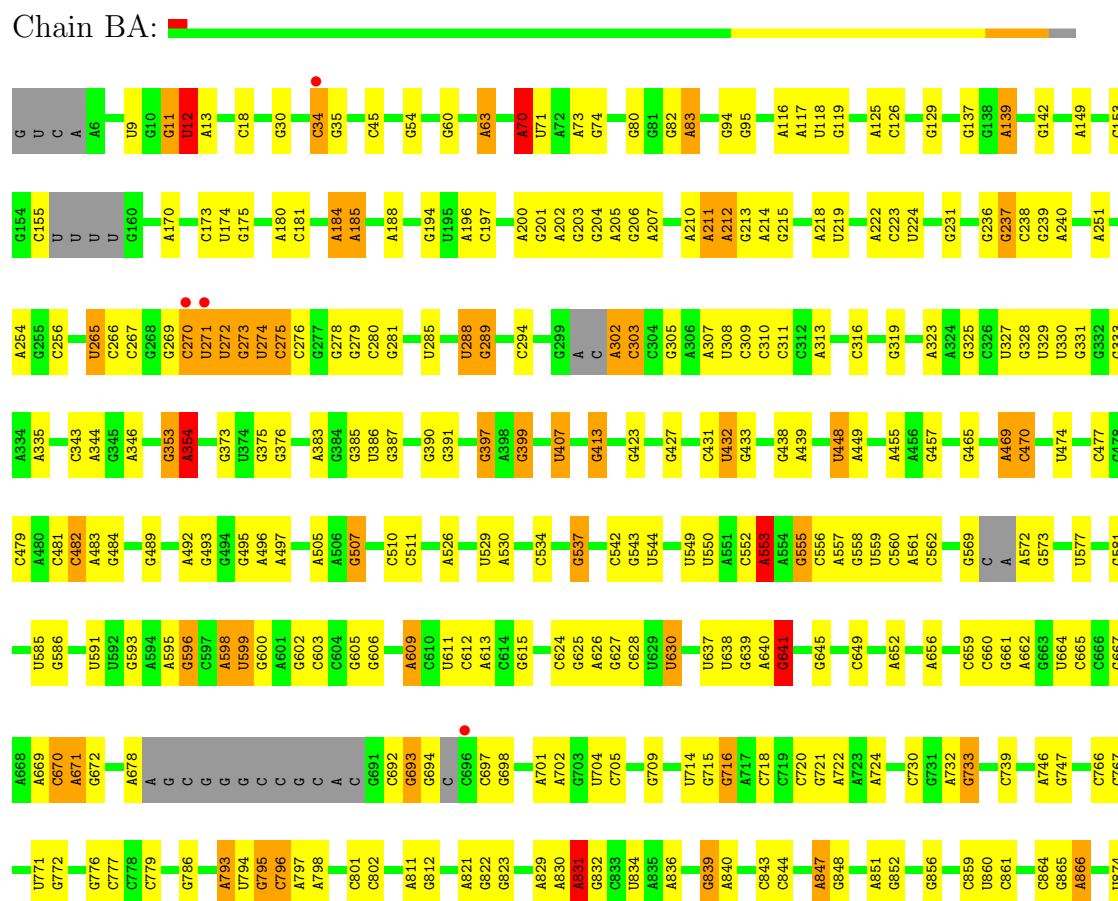
- Molecule 24: E-site tRNA



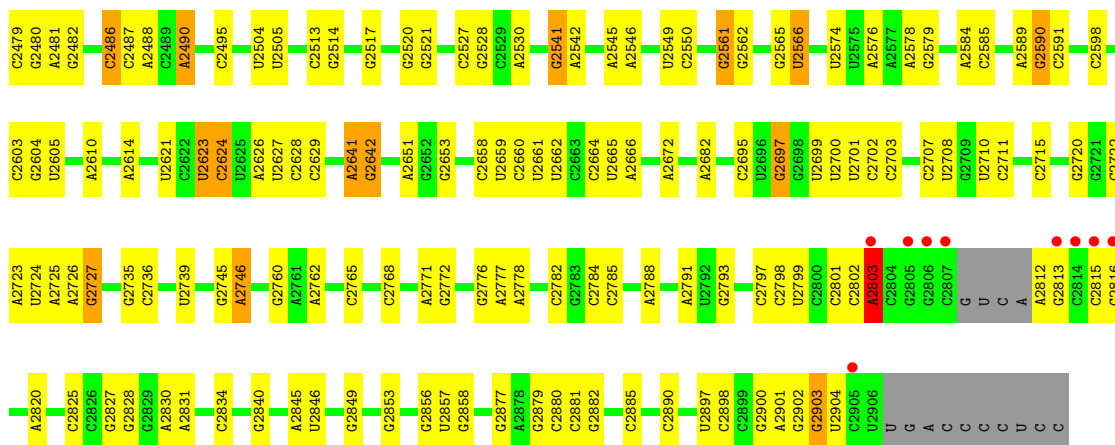
- Molecule 24: E-site tRNA



- Molecule 25: 23S Ribosomal RNA

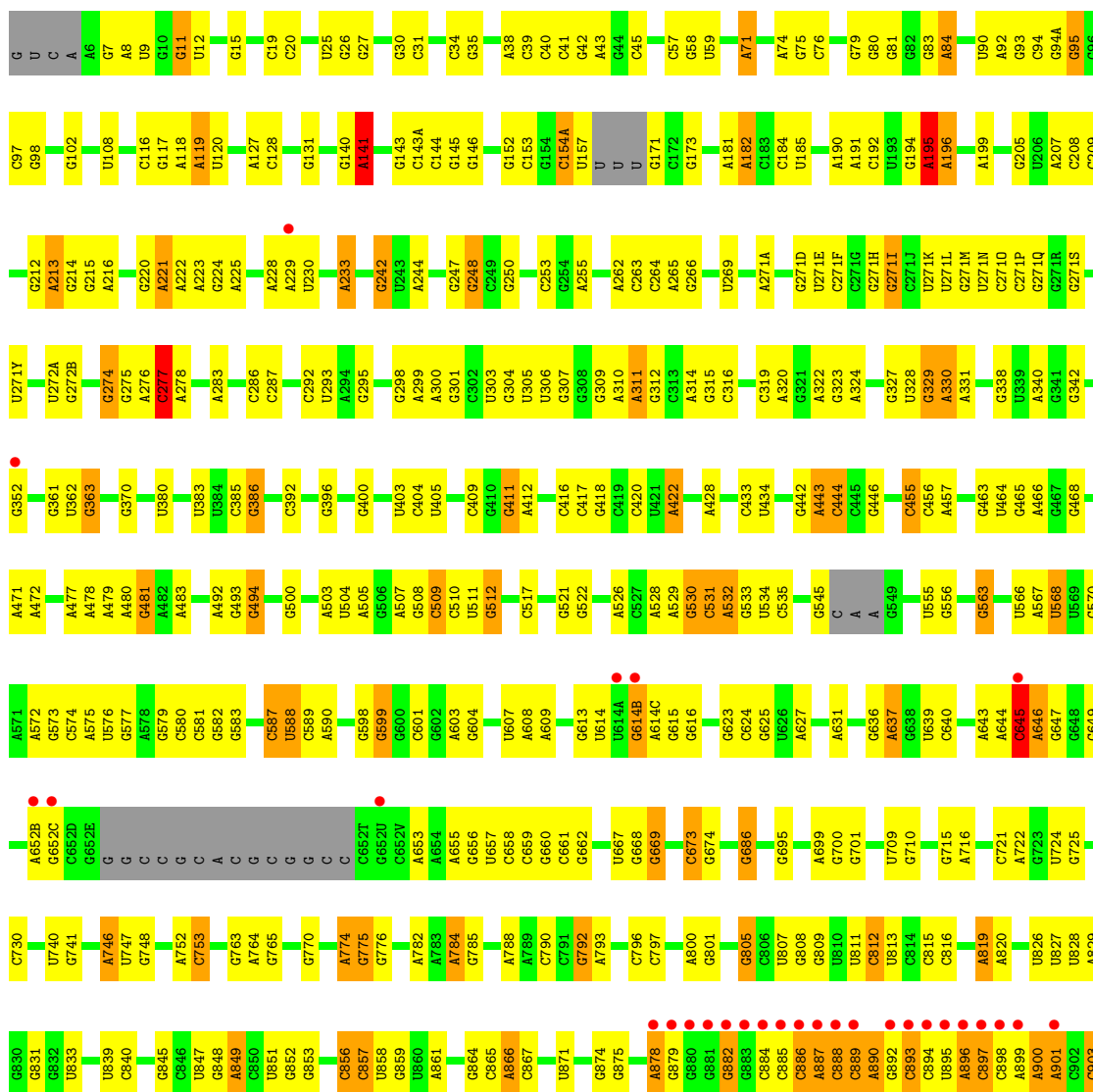


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C2355	U2255	G2175	G2109	C1989	G1847	C1733	C1594	G1495	C1361	G1236	A	G1082	G978	A876
U2356	U2256	G2177	G2116	A1992	G1848	G1734	C1595	A1496	G1365	C1246	C	C1083	A978	G878
A2358	G2260	G2178	G2117	A1993	A1855	U1735	C1604	A1497	G1366	A1249	U	G1085	U982	C885
U2360	A2280	A2180	U2118	A1994	A1856	A1736	A1605	U1501	C1373	U1250	C	C1086	G983	U886
G2361	G2280	G2181	C2119	G1995	G1857	U1740	A1613	G1502	G1378	A1265	A	G1087	A986	
C2362	G2283	G2182	U2120	G2014	G1858	G1743	A1616	G1506	G1379	U1256	U	G1088	G989	U894
G2363	U2284	C2183	U2121	U2015	A1860	G1744	A1616	A1507	A1395	G1267	G1152	A1091	G989	G895
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G2365	A2286	C2185	G2123	C2018	G1859	A1745	U1625	G1508	U1398	A1258	U1154	G1093	G991	G897
G2366	C2287	C2186	U2123	G2019	G1859	G1746	U1625	G1508	U1398	A1258	G1155	A1094	G992	U898
C2371	G2288	G2187	G2126	G2020	A1878	A1747	G1628	G1513	A1405	C1263	G1157	G1097	G993	C904
A2372	U2289	U2188	C2127	C2021	A1879	A1748	C1629	C1514	A1406	A1265	A1159	C1098	G997	U905
A2373	G2290	G2189	U2130	A2023	U1882	U1756	A1630	G1517	G1407	A1265	U1159	A	G999	G906
C2376	G2295	A2191	U2131	G2024	C1883	C1757	A1632	A1518	C1408	G1269	G1160	G	G1000	U907
G2377	C2296	A2192	G2132	U2033	G1891	G1766	A1634	G1525	A1411	A1272	G1163	A	G1001	A908
C2378	C2297	A2193	G2133	G2034	G1892	A1767	C1635	G1527	C1416	A1272	G1170	G	G1002	A910
A2387	A2298	U2194	G2134	U2035	G1892	A1767	C1635	G1528	G1417	U1280	G1171	G	U1003	G909
G2388	A2300	A2195	U2135	A2036	A1899	G1787	G1639	U1528	U1418	U1280	G1171	G	U1004	A913
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G2396	A2310	G2142	A2142	G2045	A1922	G1795	C1645	G1537	A1426	U1287	C1180	C	G1019	G927
C2397	G2311	G2143	G2143	U2050	A1922	G1795	C1645	G1537	A1426	U1287	C1180	C	G1020	G928
C2398	A2317	G2144	U2144	U2061	A1934	A1804	U1648	G1539	G1428	G1289	G1182	U	G1027	G929
U2418	G2320	G2145	U2145	A2053	G1928	A1804	C1653	A1540	C1428	G1296	G1183	A	A1027	G930
G2419	C2325	G2146	U2146	G2054	C1929	G1807	A1654	C1547	A1430	C1297	G1184	G	G1028	C931
U2430	G2327	G2151	U2151	A2063	C1930	U1809	A1655	C1548	A1431	G1298	C1185	A	A1029	C932
U2431	C2328	G2152	U2152	A2064	U1939	U1809	A1656	U1549	U1440	A1299	U1187	G	G1039	C933
A2434	G2331	G2153	U2153	G2065	A1940	U1810	C1683	C1550	A1441	A1314	U1188	C	C1040	C935
U2435	A2332	G2154	U2154	A2073	A1941	A1816	C1684	C1551	U1442	G1302	A1189	A	G1041	C936
G2436	G2333	G2155	U2155	A2073	U1945	A1817	U1685	U1566	G1462	G1317	C1199	C	A1042	A937
A2437	A2334	A2157	C2158	G2077	C1946	C1821	C1687	G1567	G1463	U1319	G1200	C	G1043	G938
G2441	G2335	C2159	C2159	G2078	A1949	A1822	G1694	U1574	U1466	A1324	G1213	U	A1044	C939
U2443	C2336	G2160	C2160	A2081	A1950	U1827	C1695	A1574	U1467	A1324	G1214	U	U1065	U941
U2446	G2337	G2161	C2161	G1951	G1951	C1828	A1699	C1578	C1474	U1334	G1217	A	A1066	A942
A2447	C2338	G2162	C2162	G2083	G1952	U1829	A1699	C1579	C1475	U1334	A1218	A	A1067	C943
A2451	A2339	G2163	C2163	A2084	U1953	G1830	A1700	U	C1476	U1338	A1219	G	G1068	A957
G2452	G2340	C2164	C2164	G2085	U1953	C1831	A1701	G	U1477	C1339	U1220	A	G1071	G962
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A2460	G2343	C2167	C2167	A1960	A1960	U1836	G1708	G1584	A1480	C1343	C1223	G	A1075	G974
U2461	G2346	G2169	C2169	G2091	U1977	U1836	C1717	G1584	A1481	U1346	C1224	C	G1076	U968
	A2347	G2170	G2170	U2096	U1985	A1841	U1720	U1587	G1482	A1347	G1232	U	U1079	C969
	A2348	U2171	U2171	U2097	G1986	U1841	G1721	A1588	C1483	A1347	U1233	A	U1080	
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• Molecule 25: 23S Ribosomal RNA

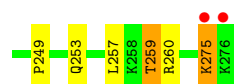
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A2170	G2109	C2006	G1896	A1786	U1671	G1559	G1459	A1274	G1193	C1115	G	G989	G906
U2171	C2110	G2012	G1899	A1789	G1674	A1566	A1460	A1278	G1193	C1116	G	A990	U907
U2172	G2111	A2013	G1900	C1790	G1685	A1569	G1461	G1283	C1201	G1117	A	G993	C908
A2173	U2113	A2014	A1900	A1791	C1686	A1577	G1465	A1284	G1202	G1125	G	C994	A910
C2174	G2114	G2018	G1903	U1794	G1687	U1578	G1466	A1285	G1203	A1126	G	C995	A911
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C2176	G2116	G2023	A1912	U1796	A1689	A1580	U1372	A1287	G1206	A1128	G	G997	U913
A2177	A2117	U2022	A1913	C1797	G1692	A1583	A1471	U1288	C1207	U1130	C	A1000	C914
C2178	U2118	G2023	A1913	U1798	U1693	C1584	A1472	G1288	C1208	U1131	U	G995	C915
C2179	G2120	C1944	C1944	G1799	U1694	A1586	C1474	U1292	G1209	A1132	U	G996	G916
U2180	G2121	C2026	G1922	G1800	C1695	A1587	A1378	C1293	U1210	U1133	U	G1003	A917
C2183	U2122	G2027	U1923	G1801	G1696	A1588	A1379	C1297	U1211	C1135	A	C1004	A918
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U2188	A2126	A2031	U1926	A1810	G1699	G1593	A1490	U1301	G1219	G1139	C	A1009	G928
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G2205	C2136	G2056	C1947	G1830	U1709	C1504	U1406	C1314	G1232	G1152	U	A1020	G942
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A2269	G2151	C2081	G1980	U1851	G1763	A1641	C1532	A1336	G1250	G1168	A	U1033	A957
G2270	G2152	A2082	C1983	G1857	G1764	G1642	U1431	G1337	A1253	G1170	A	C1038	U958
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A2274	G2156	C2095	U1993	A1877	A1773	G1653	G1437	U1352	U1263	G	A	C1043	U963
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C2283	C2164	C2103	G2002	G1888	C1782	G1667	G1450	G1358	A1270	U1188	A	G	A983
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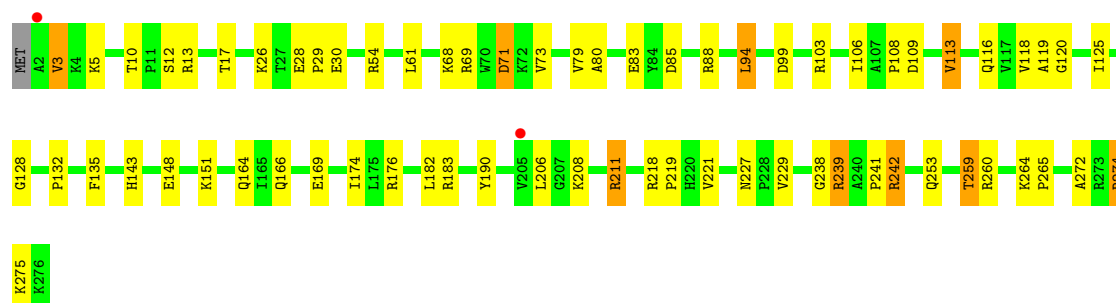






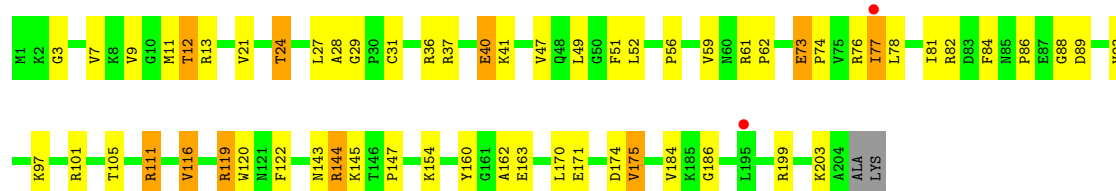
• Molecule 27: 50S Ribosomal Protein L2

Chain DD:



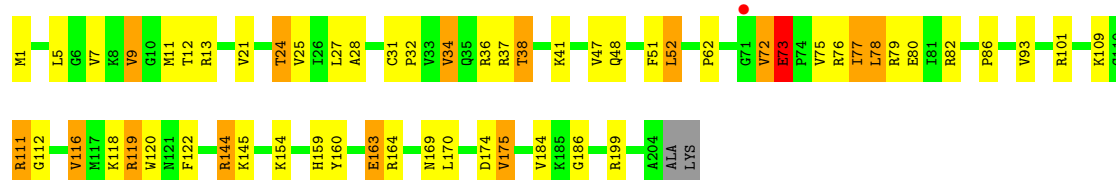
• Molecule 28: 50S Ribosomal Protein L3

Chain BE:



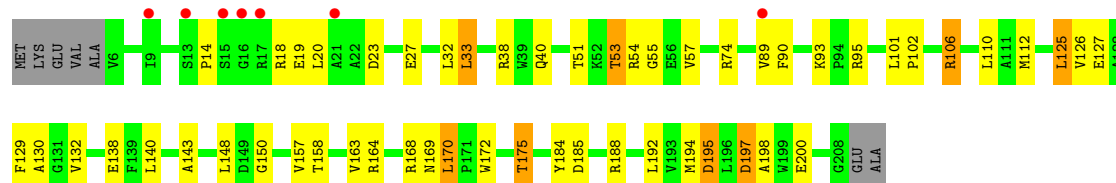
• Molecule 28: 50S Ribosomal Protein L3

Chain DE:



• Molecule 29: 50S Ribosomal Protein L4

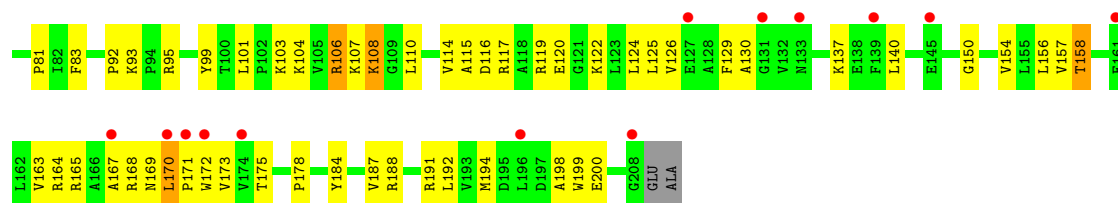
Chain BF:



• Molecule 29: 50S Ribosomal Protein L4

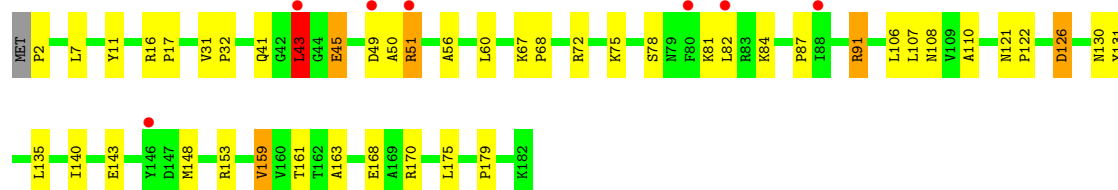
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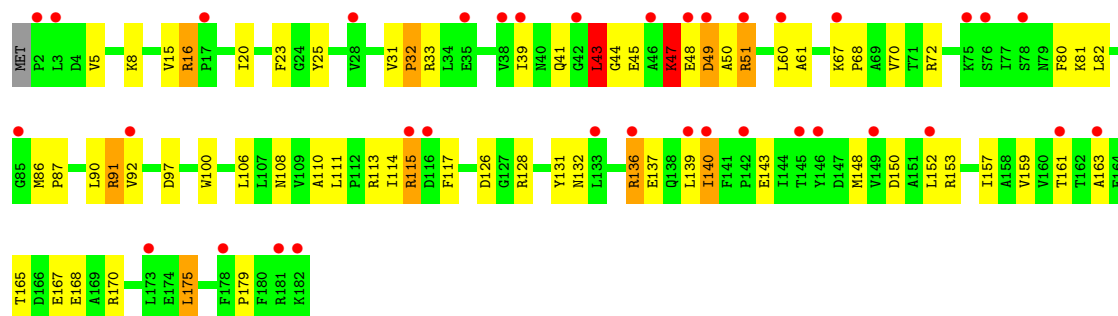
• Molecule 30: 50S Ribosomal Protein L5

Chain BG:



• Molecule 30: 50S Ribosomal Protein L5

Chain DG:



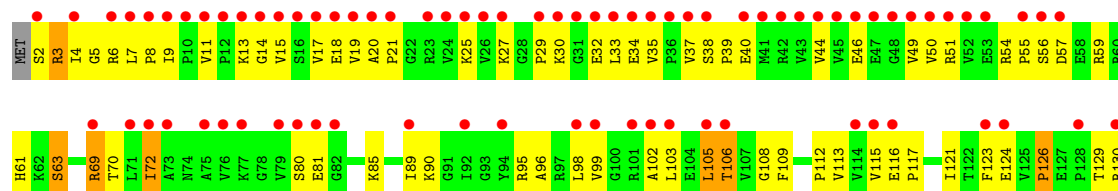
• Molecule 31: 50S Ribosomal Protein L6

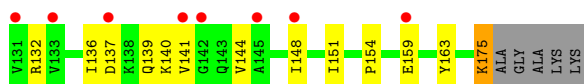
Chain BH:



• Molecule 31: 50S Ribosomal Protein L6

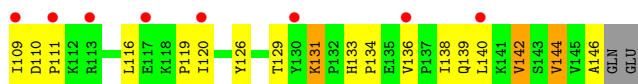
Chain DH:





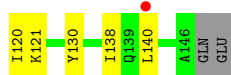
• Molecule 32: 50S Ribosomal Protein L9

Chain BI:



• Molecule 32: 50S Ribosomal Protein L9

Chain DI:



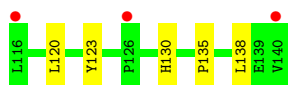
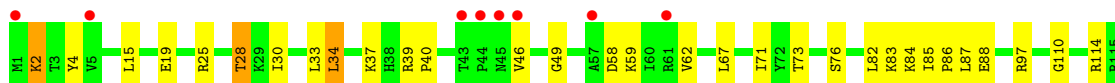
• Molecule 33: 50S Ribosomal Protein L13

Chain BN:



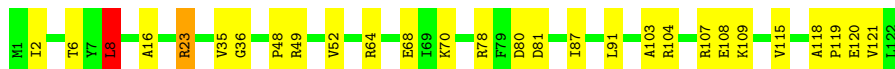
• Molecule 33: 50S Ribosomal Protein L13

Chain DN:



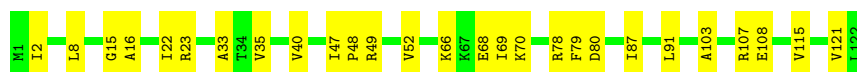
• Molecule 34: 50S Ribosomal Protein L14

Chain BO:



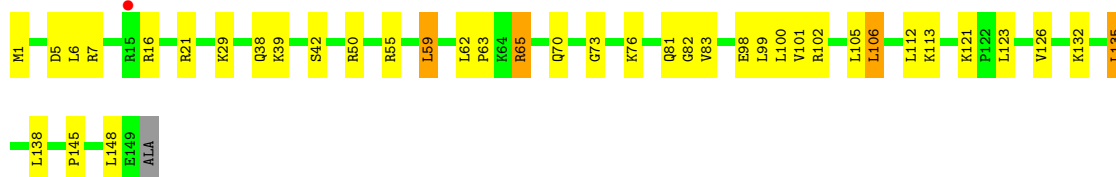
• Molecule 34: 50S Ribosomal Protein L14

Chain DO:



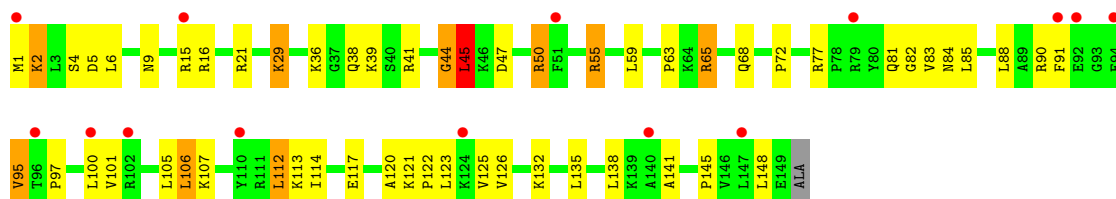
• Molecule 35: 50S Ribosomal Protein L15

Chain BP:



• Molecule 35: 50S Ribosomal Protein L15

Chain DP:



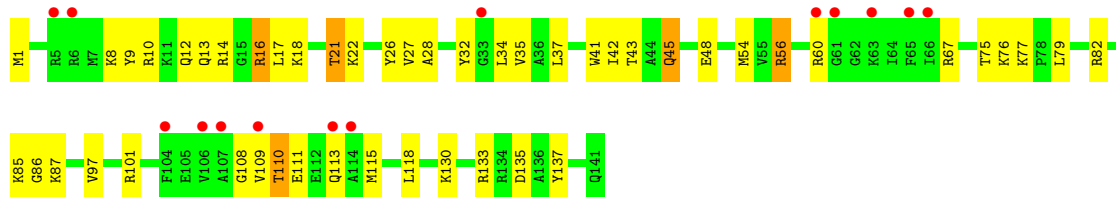
• Molecule 36: 50S Ribosomal Protein L16

Chain BQ:



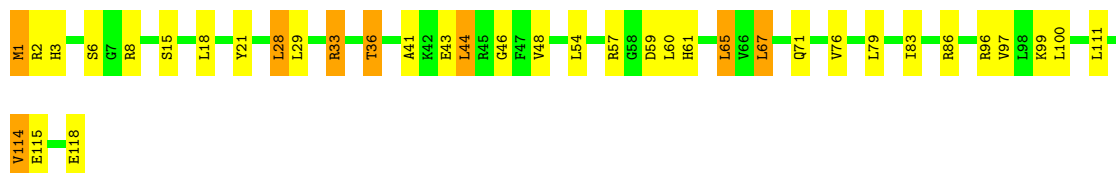
• Molecule 36: 50S Ribosomal Protein L16

Chain DQ:



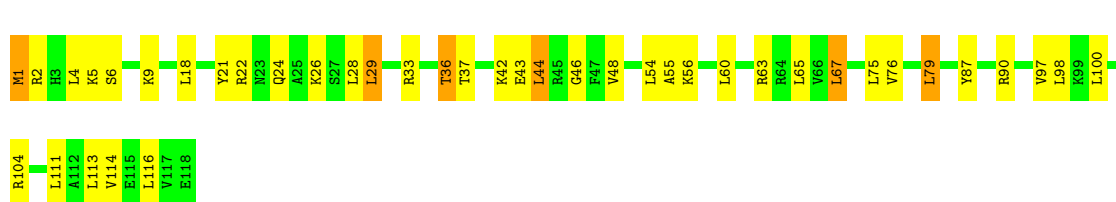
• Molecule 37: 50S Ribosomal Protein L17

Chain BR:



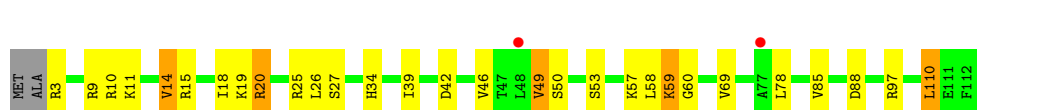
- Molecule 37: 50S Ribosomal Protein L17

Chain DR:



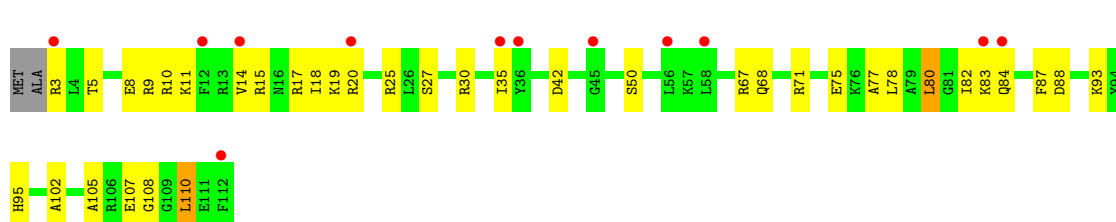
- Molecule 38: 50S Ribosomal Protein L18

Chain BS:



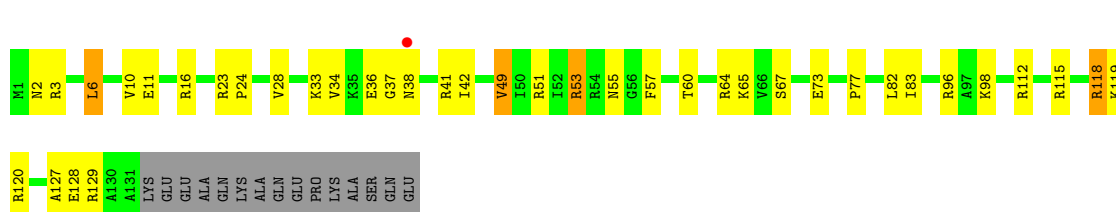
- Molecule 38: 50S Ribosomal Protein L18

Chain DS:



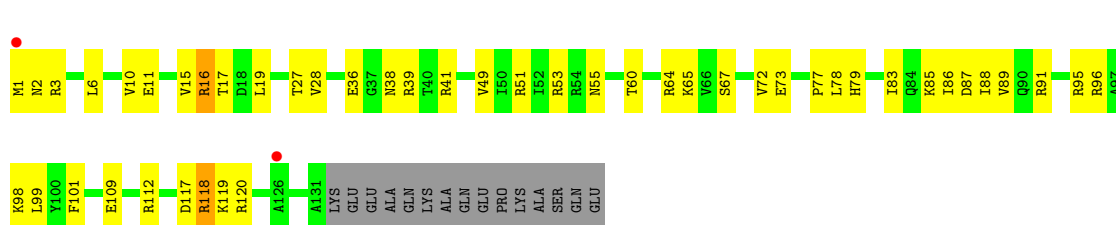
- Molecule 39: 50S Ribosomal Protein L19

Chain BT:



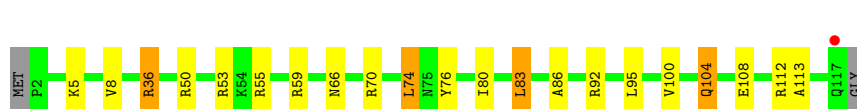
- Molecule 39: 50S Ribosomal Protein L19

Chain DT:



- Molecule 40: 50S Ribosomal Protein L20

Chain BU:



- Molecule 40: 50S Ribosomal Protein L20

Chain DU:



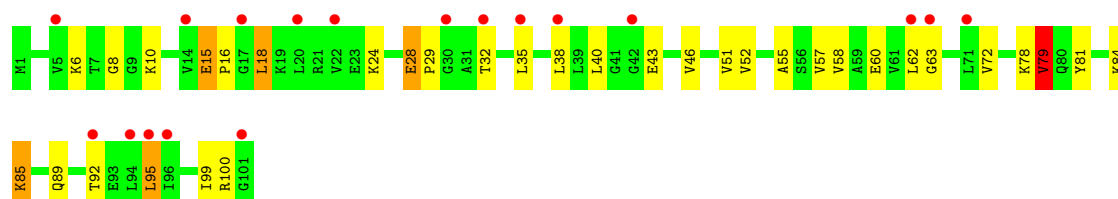
- Molecule 41: 50S Ribosomal Protein L21

Chain BV:



- Molecule 41: 50S Ribosomal Protein L21

Chain DV:



- Molecule 42: 50S Ribosomal Protein L22

Chain BW:



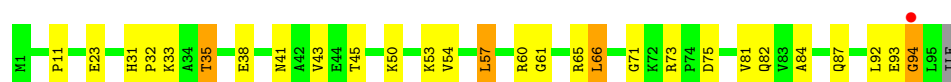
- Molecule 42: 50S Ribosomal Protein L22

Chain DW:



- Molecule 43: 50S Ribosomal Protein L23

Chain BX:



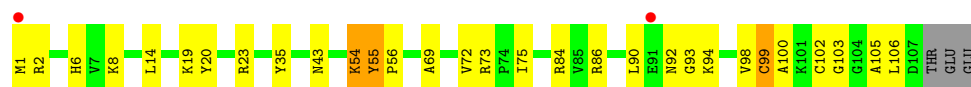
- Molecule 43: 50S Ribosomal Protein L23

Chain DX:



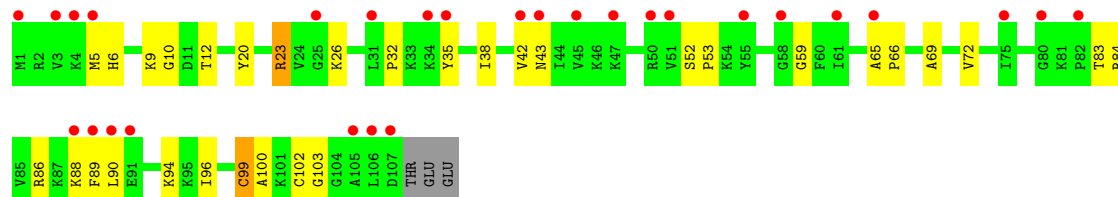
- Molecule 44: 50S Ribosomal Protein L24

Chain BY:



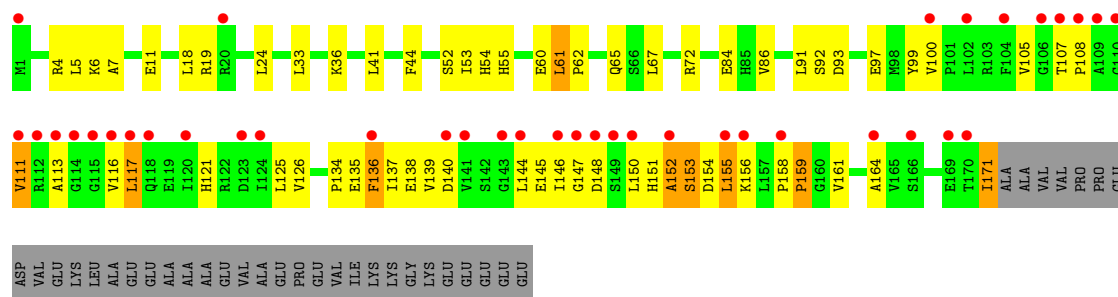
- Molecule 44: 50S Ribosomal Protein L24

Chain DY:



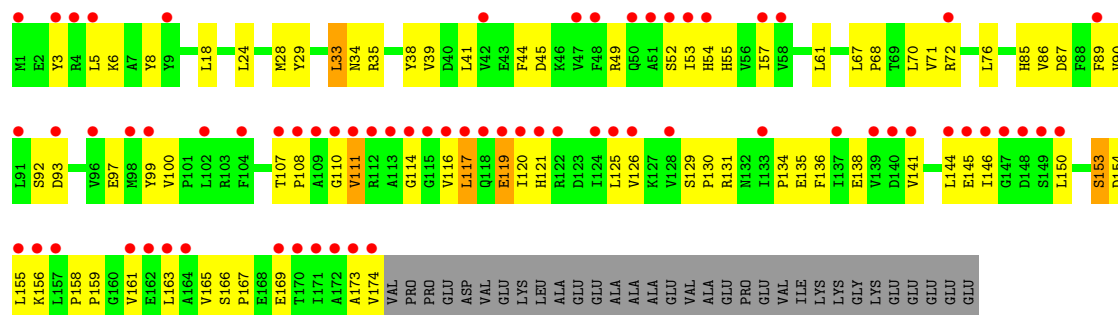
- Molecule 45: 50S Ribosomal Protein L25

Chain BZ:



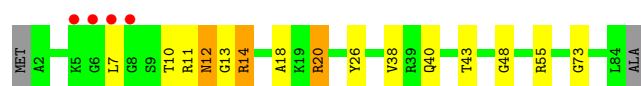
- Molecule 45: 50S Ribosomal Protein L25

Chain DZ:



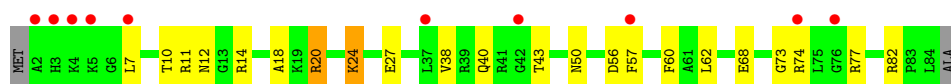
- Molecule 46: 50S Ribosomal Protein L27

Chain B0:



- Molecule 46: 50S Ribosomal Protein L27

Chain D0:



- Molecule 47: 50S Ribosomal Protein L28

Chain B1:



- Molecule 47: 50S Ribosomal Protein L28

Chain D1:



- Molecule 48: 50S Ribosomal Protein L29

Chain B2:



- Molecule 48: 50S Ribosomal Protein L29

Chain D2:



- Molecule 49: 50S Ribosomal Protein L30

Chain B3:



- Molecule 49: 50S Ribosomal Protein L30

Chain D3:



- Molecule 50: 50S Ribosomal Protein L31

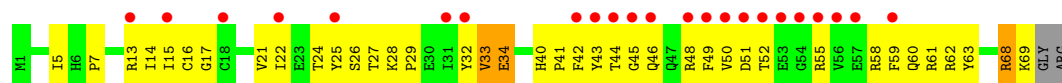
Chain B4:



- Molecule 50: 50S Ribosomal Protein L31

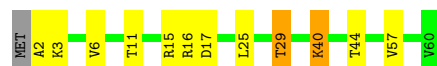


Chain D4: 



- Molecule 51: 50S Ribosomal Protein L32

Chain B5: 



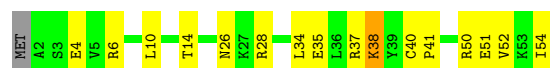
- Molecule 51: 50S Ribosomal Protein L32

Chain D5: 



- Molecule 52: 50S Ribosomal Protein L33

Chain B6: 



- Molecule 52: 50S Ribosomal Protein L33

Chain D6: 



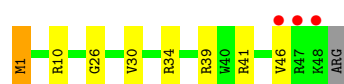
- Molecule 53: 50S Ribosomal Protein L34

Chain B7: 



- Molecule 53: 50S Ribosomal Protein L34

Chain D7: 



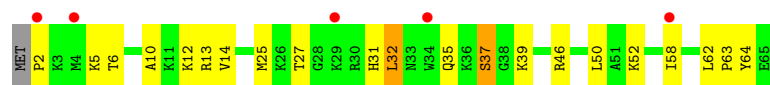
- Molecule 54: 50S Ribosomal Protein L35

Chain B8: 



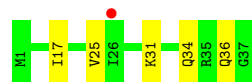
- Molecule 54: 50S Ribosomal Protein L35

Chain D8: 



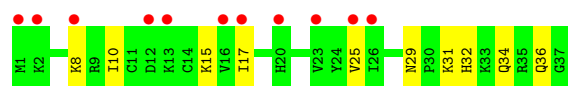
- Molecule 55: 50S Ribosomal Protein L36

Chain B9: 



- Molecule 55: 50S Ribosomal Protein L36

Chain D9: 



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	209.35Å 449.01Å 621.98Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	145.52 – 2.55 145.52 – 2.55	Depositor EDS
% Data completeness (in resolution range)	99.0 (145.52-2.55) 99.0 (145.52-2.55)	Depositor EDS
$R_{merge}$	0.14	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.28 (at 2.55Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.8.2_1309)	Depositor
R, $R_{free}$	0.225 , 0.273 0.246 , 0.295	Depositor DCC
$R_{free}$ test set	44682 reflections (2.41%)	DCC
Wilson B-factor (Å <sup>2</sup> )	48.2	Xtriage
Anisotropy	0.182	Xtriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.33 , 37.9	EDS
Estimated twinning fraction	No twinning to report.	Xtriage
L-test for twinning	$\langle  L  \rangle = 0.40$ , $\langle L^2 \rangle = 0.23$	Xtriage
Outliers	0 of 1857518 reflections	Xtriage
$F_o, F_c$ correlation	0.91	EDS
Total number of atoms	297273	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	58.0	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.*

<sup>1</sup>Intensities estimated from amplitudes.

## 5 Model quality

### 5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 5MU, ZN, PCY, MIA, SF4, MG, 5MC, 4SU, 7MG, K, PSU

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\# Z  > 5$	RMSZ	$\# Z  > 5$
1	AA	0.43	0/36049	0.93	45/56261 (0.1%)
1	CA	0.42	2/36170 (0.0%)	0.95	52/56452 (0.1%)
2	AB	0.31	0/1881	0.62	1/2542 (0.0%)
2	CB	0.32	0/1860	0.59	0/2518
3	AC	0.30	0/1576	0.52	0/2130
3	CC	0.31	0/1566	0.55	0/2119
4	AD	0.32	0/1689	0.53	0/2267
4	CD	0.32	0/1704	0.55	0/2284
5	AE	0.31	0/1145	0.54	0/1543
5	CE	0.33	0/1149	0.59	0/1548
6	AF	0.32	0/819	0.53	0/1111
6	CF	0.30	0/829	0.52	0/1123
7	AG	0.30	0/1250	0.49	0/1679
7	CG	0.30	0/1254	0.50	0/1683
8	AH	0.30	0/1108	0.51	0/1494
8	CH	0.30	0/1108	0.53	0/1494
9	AI	0.32	0/1002	0.56	0/1346
9	CI	0.32	0/997	0.59	0/1343
10	AJ	0.30	0/722	0.56	0/982
10	CJ	0.31	0/727	0.60	0/988
11	AK	0.31	0/844	0.54	0/1145
11	CK	0.30	0/848	0.54	0/1149
12	AL	0.33	0/946	0.53	0/1274
12	CL	0.32	0/946	0.57	0/1274
13	AM	0.30	0/969	0.57	0/1302
13	CM	0.30	0/961	0.53	0/1291
14	AN	0.34	0/501	0.50	0/664
14	CN	0.33	0/501	0.56	0/664
15	AO	0.30	0/739	0.56	0/985
15	CO	0.31	0/739	0.54	0/985
16	AP	0.32	0/697	0.53	0/939
16	CP	0.31	0/693	0.50	0/935

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	AQ	0.31	0/836	0.49	0/1117
17	CQ	0.30	0/836	0.52	0/1117
18	AR	0.32	0/560	0.55	0/746
18	CR	0.28	0/560	0.49	0/746
19	AS	0.30	0/667	0.54	0/900
19	CS	0.34	0/661	0.66	0/893
20	AT	0.29	0/730	0.57	0/965
20	CT	0.30	0/729	0.53	0/965
21	AU	0.33	0/203	0.50	0/266
21	CU	0.34	0/203	0.53	0/266
22	AV	0.48	0/310	1.00	0/480
22	CV	0.45	0/310	0.91	2/480 (0.4%)
23	AW	0.48	0/1602	1.06	0/2493
23	AY	0.52	0/1602	1.16	4/2493 (0.2%)
23	CW	0.52	0/1556	1.19	10/2418 (0.4%)
23	CY	0.54	0/1579	1.18	5/2455 (0.2%)
24	AX	0.55	2/1725 (0.1%)	1.16	12/2689 (0.4%)
24	CX	0.56	1/1725 (0.1%)	1.18	18/2689 (0.7%)
25	BA	0.60	6/68013 (0.0%)	1.02	122/106165 (0.1%)
25	DA	0.49	0/67542	0.98	62/105428 (0.1%)
26	BB	0.49	0/2878	0.91	0/4490
26	DB	0.51	0/2878	0.96	1/4490 (0.0%)
27	BD	0.41	0/2186	0.64	1/2944 (0.0%)
27	DD	0.38	0/2186	0.59	1/2944 (0.0%)
28	BE	0.42	0/1592	0.58	0/2149
28	DE	0.36	0/1592	0.58	1/2149 (0.0%)
29	BF	0.40	0/1619	0.58	0/2193
29	DF	0.36	0/1615	0.59	0/2188
30	BG	0.33	0/1450	0.56	1/1959 (0.1%)
30	DG	0.33	0/1449	0.56	0/1958
31	BH	0.34	0/1356	0.52	0/1834
31	DH	0.32	0/1356	0.53	0/1834
32	BI	0.31	0/1100	0.57	0/1501
32	DI	0.29	0/1076	0.56	0/1471
33	BN	0.39	0/1144	0.56	0/1543
33	DN	0.35	0/1144	0.56	0/1543
34	BO	0.42	0/943	0.60	1/1269 (0.1%)
34	DO	0.34	0/943	0.51	0/1269
35	BP	0.38	0/1152	0.59	0/1533
35	DP	0.35	0/1152	0.61	1/1533 (0.1%)
36	BQ	0.41	0/1143	0.55	0/1527
36	DQ	0.36	0/1143	0.55	0/1527
37	BR	0.42	0/982	0.65	0/1312

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
37	DR	0.31	0/982	0.54	0/1312
38	BS	0.34	0/887	0.59	0/1180
38	DS	0.32	0/880	0.55	0/1172
39	BT	0.39	0/1105	0.60	0/1477
39	DT	0.31	0/1097	0.52	0/1468
40	BU	0.45	0/977	0.62	1/1301 (0.1%)
40	DU	0.32	0/977	0.52	0/1301
41	BV	0.44	0/782	0.61	0/1049
41	DV	0.33	0/782	0.54	0/1049
42	BW	0.44	0/897	0.61	0/1205
42	DW	0.33	0/897	0.53	0/1205
43	BX	0.44	0/764	0.64	1/1025 (0.1%)
43	DX	0.36	0/764	0.57	1/1025 (0.1%)
44	BY	0.42	0/819	0.64	0/1095
44	DY	0.33	0/819	0.52	0/1095
45	BZ	0.35	0/1379	0.60	0/1873
45	DZ	0.33	0/1390	0.56	0/1890
46	B0	0.40	0/662	0.66	1/881 (0.1%)
46	D0	0.33	0/662	0.52	0/881
47	B1	0.40	0/762	0.57	0/1014
47	D1	0.34	0/762	0.56	0/1014
48	B2	0.37	0/590	0.65	0/781
48	D2	0.30	0/590	0.47	0/781
49	B3	0.42	0/474	0.62	0/635
49	D3	0.30	0/469	0.53	0/630
50	B4	0.39	0/571	0.66	0/768
50	D4	0.33	0/545	0.60	0/737
51	B5	0.39	0/469	0.64	0/635
51	D5	0.33	0/469	0.58	0/635
52	B6	0.42	0/460	0.58	0/613
52	D6	0.36	0/456	0.49	0/608
53	B7	0.45	0/426	0.66	0/561
53	D7	0.36	0/426	0.52	0/561
54	B8	0.41	0/519	0.62	0/684
54	D8	0.33	0/525	0.55	0/691
55	B9	0.44	0/310	0.52	0/407
55	D9	0.34	0/310	0.57	0/407
All	All	0.47	11/316672 (0.0%)	0.90	344/474091 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	AB	0	1
7	AG	0	1
7	CG	0	1
19	CS	0	1
27	DD	0	1
38	BS	0	1
44	BY	0	1
All	All	0	7

The worst 5 of 11 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	354	A	N9-C4	-7.89	1.33	1.37
1	CA	1154	G	C6-N1	-7.66	1.34	1.39
25	BA	1188	A	N9-C4	-7.63	1.33	1.37
25	BA	1067	A	N9-C4	-6.49	1.33	1.37
24	AX	14	A	N7-C5	-6.24	1.35	1.39

The worst 5 of 344 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	CA	1154	G	C5-C6-O6	17.34	139.00	128.60
1	CA	1119	C	C2-N3-C4	16.52	128.16	119.90
1	CA	1154	G	N3-C2-N2	14.11	129.78	119.90
1	CA	1119	C	N1-C2-O2	14.07	127.34	118.90
1	CA	1154	G	N1-C6-O6	-11.05	113.27	119.90

There are no chirality outliers.

5 of 7 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	AB	231	GLU	Peptide
7	AG	78	ARG	Peptide
38	BS	58	LEU	Peptide
44	BY	54	LYS	Peptide
7	CG	78	ARG	Peptide

## 5.2 Close contacts ⓘ

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

and the number in parentheses is this value normalized per 1000 atoms of the molecule in the chain. The Symm-Clashes column gives symmetry related clashes, in the same way as for the Clashes column.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32205	0	16255	434	0
1	CA	32312	0	16307	550	0
2	AB	1846	0	1867	70	0
2	CB	1825	0	1828	90	0
3	AC	1552	0	1546	45	0
3	CC	1542	0	1517	56	0
4	AD	1659	0	1676	53	0
4	CD	1674	0	1714	54	0
5	AE	1129	0	1185	33	0
5	CE	1133	0	1191	30	0
6	AF	806	0	793	18	0
6	CF	816	0	808	17	0
7	AG	1231	0	1238	22	0
7	CG	1235	0	1249	31	0
8	AH	1088	0	1126	32	0
8	CH	1088	0	1126	31	0
9	AI	983	0	986	28	0
9	CI	978	0	966	46	0
10	AJ	709	0	650	32	0
10	CJ	714	0	672	36	0
11	AK	829	0	825	15	0
11	CK	833	0	836	22	0
12	AL	930	0	980	18	0
12	CL	930	0	980	23	0
13	AM	958	0	1002	26	0
13	CM	950	0	988	24	0
14	AN	492	0	529	20	0
14	CN	492	0	529	17	0
15	AO	728	0	760	18	0
15	CO	728	0	760	31	0
16	AP	681	0	697	21	0
16	CP	677	0	686	17	0
17	AQ	823	0	891	16	0
17	CQ	823	0	891	19	0
18	AR	555	0	618	12	0
18	CR	555	0	618	13	0
19	AS	652	0	662	35	0
19	CS	646	0	644	34	0
20	AT	728	0	798	19	0
20	CT	727	0	796	20	0

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
21	AU	199	0	208	5	0
21	CU	199	0	208	8	0
22	AV	277	0	140	2	0
22	CV	277	0	140	2	0
23	AW	1588	0	820	30	0
23	AY	1581	0	805	57	0
23	CW	1541	0	784	50	0
23	CY	1561	0	796	46	0
24	AX	1625	0	828	11	0
24	CX	1625	0	828	28	0
25	BA	60729	0	30622	619	0
25	DA	60311	0	30414	867	0
26	BB	2573	0	1306	18	0
26	DB	2573	0	1306	38	0
27	BD	2136	0	2218	52	0
27	DD	2136	0	2218	51	0
28	BE	1559	0	1618	38	0
28	DE	1559	0	1618	41	0
29	BF	1584	0	1625	33	0
29	DF	1580	0	1619	64	0
30	BG	1425	0	1443	23	0
30	DG	1424	0	1434	47	0
31	BH	1330	0	1407	26	0
31	DH	1330	0	1407	61	0
32	BI	1085	0	1114	26	0
32	DI	1061	0	1080	19	0
33	BN	1117	0	1184	15	0
33	DN	1117	0	1184	24	0
34	BO	933	0	996	21	0
34	DO	933	0	996	18	0
35	BP	1135	0	1212	28	0
35	DP	1135	0	1212	50	0
36	BQ	1122	0	1179	23	0
36	DQ	1122	0	1179	38	0
37	BR	968	0	1033	25	0
37	DR	968	0	1033	26	0
38	BS	877	0	938	26	0
38	DS	870	0	923	23	0
39	BT	1091	0	1151	29	0
39	DT	1083	0	1136	30	0
40	BU	959	0	1019	14	0
40	DU	959	0	1019	28	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
41	BV	771	0	830	17	0
41	DV	771	0	830	21	0
42	BW	886	0	940	15	0
42	DW	886	0	940	13	0
43	BX	750	0	814	23	0
43	DX	750	0	814	22	0
44	BY	806	0	881	21	0
44	DY	806	0	881	20	0
45	BZ	1349	0	1355	41	0
45	DZ	1360	0	1363	63	0
46	B0	653	0	674	16	0
46	D0	653	0	674	24	0
47	B1	755	0	826	17	0
47	D1	755	0	826	15	0
48	B2	588	0	643	9	0
48	D2	588	0	643	8	0
49	B3	469	0	518	8	0
49	D3	464	0	514	9	0
50	B4	558	0	544	34	0
50	D4	532	0	503	25	0
51	B5	455	0	465	11	0
51	D5	455	0	465	8	0
52	B6	453	0	473	7	0
52	D6	449	0	469	8	0
53	B7	418	0	467	11	0
53	D7	418	0	467	6	0
54	B8	511	0	571	18	0
54	D8	517	0	582	21	0
55	B9	307	0	335	4	0
55	D9	307	0	335	8	0
56	AA	230	0	0	0	0
56	AD	1	0	0	0	0
56	AE	1	0	0	0	0
56	AF	1	0	0	0	0
56	AK	2	0	0	0	0
56	AM	1	0	0	0	0
56	AN	1	0	0	0	0
56	AV	1	0	0	0	0
56	AW	7	0	0	0	0
56	AX	12	0	0	0	0
56	AY	3	0	0	0	0
56	B0	3	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	B1	2	0	0	0	0
56	B2	1	0	0	0	0
56	B3	3	0	0	0	0
56	B4	1	0	0	0	0
56	B5	4	0	0	0	0
56	B6	2	0	0	0	0
56	B7	2	0	0	0	0
56	B8	3	0	0	0	0
56	B9	1	0	0	0	0
56	BA	839	0	0	0	0
56	BB	23	0	0	0	0
56	BD	11	0	0	0	0
56	BE	8	0	0	0	0
56	BF	12	0	0	0	0
56	BG	3	0	0	0	0
56	BN	5	0	0	0	0
56	BO	1	0	0	0	0
56	BP	3	0	0	0	0
56	BQ	5	0	0	0	0
56	BR	5	0	0	0	0
56	BU	9	0	0	0	0
56	BV	5	0	0	0	0
56	BW	3	0	0	0	0
56	BX	2	0	0	0	0
56	BY	1	0	0	0	0
56	BZ	1	0	0	0	0
56	CA	177	0	0	0	0
56	CE	2	0	0	0	0
56	CF	1	0	0	0	0
56	CJ	1	0	0	0	0
56	CT	1	0	0	0	0
56	CV	1	0	0	0	0
56	CW	2	0	0	0	0
56	CX	5	0	0	0	0
56	CY	1	0	0	0	0
56	D0	2	0	0	0	0
56	D3	1	0	0	0	0
56	D7	2	0	0	0	0
56	D8	1	0	0	0	0
56	DA	675	0	0	0	0
56	DB	11	0	0	0	0
56	DD	7	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	DE	4	0	0	0	0
56	DF	5	0	0	0	0
56	DG	1	0	0	0	0
56	DN	1	0	0	0	0
56	DO	1	0	0	0	0
56	DQ	4	0	0	0	0
56	DR	1	0	0	0	0
56	DU	2	0	0	0	0
56	DV	3	0	0	0	0
56	DW	3	0	0	0	0
56	DY	1	0	0	0	0
57	AA	40	0	37	7	0
57	CA	40	0	37	9	0
58	AD	8	0	0	0	0
58	CD	8	0	0	0	0
59	AN	1	0	0	0	0
59	B4	1	0	0	0	0
59	B5	1	0	0	0	0
59	B6	1	0	0	0	0
59	B9	1	0	0	0	0
59	BY	1	0	0	0	0
59	CN	1	0	0	0	0
59	D4	1	0	0	0	0
59	D5	1	0	0	0	0
59	D6	1	0	0	0	0
59	D9	1	0	0	0	0
59	DY	1	0	0	0	0
60	AX	1	0	0	0	0
60	CX	1	0	0	0	0
61	AA	226	0	0	17	0
61	AE	3	0	0	0	0
61	AJ	1	0	0	0	0
61	AL	4	0	0	1	0
61	AM	1	0	0	0	0
61	AV	4	0	0	0	0
61	AW	6	0	0	0	0
61	AX	8	0	0	0	0
61	AY	3	0	0	0	0
61	B0	4	0	0	0	0
61	B1	2	0	0	0	0
61	B3	2	0	0	0	0
61	B5	5	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	B6	1	0	0	0	0
61	B7	3	0	0	1	0
61	B8	11	0	0	1	0
61	BA	1411	0	0	69	0
61	BB	36	0	0	1	0
61	BD	16	0	0	2	0
61	BE	13	0	0	2	0
61	BF	7	0	0	0	0
61	BG	3	0	0	0	0
61	BI	1	0	0	0	0
61	BN	2	0	0	0	0
61	BO	3	0	0	0	0
61	BP	17	0	0	1	0
61	BQ	2	0	0	0	0
61	BR	2	0	0	0	0
61	BT	1	0	0	0	0
61	BU	6	0	0	0	0
61	BV	2	0	0	0	0
61	BW	4	0	0	0	0
61	BX	1	0	0	0	0
61	CA	173	0	0	15	0
61	CJ	2	0	0	2	0
61	CL	1	0	0	0	0
61	CV	2	0	0	0	0
61	CW	1	0	0	0	0
61	CX	4	0	0	2	0
61	D0	5	0	0	0	0
61	D3	1	0	0	0	0
61	D7	3	0	0	1	0
61	D8	4	0	0	0	0
61	DA	1002	0	0	68	0
61	DB	10	0	0	0	0
61	DD	17	0	0	1	0
61	DE	11	0	0	0	0
61	DF	5	0	0	0	0
61	DN	2	0	0	0	0
61	DO	2	0	0	0	0
61	DP	8	0	0	1	0
61	DQ	1	0	0	0	0
61	DR	1	0	0	0	0
61	DU	2	0	0	0	0
61	DW	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	DY	1	0	0	0	0
All	All	297273	0	196306	4649	0

Clashscore is defined as the number of clashes calculated for the entry per 1000 atoms (including hydrogens) of the entry. The overall clashscore for this entry is 10.

The worst 5 of 4649 close contacts within the same asymmetric unit are listed below.

Atom-1	Atom-2	Distance(Å)	Clash(Å)
1:CA:1256:A:H61	1:CA:1278:U:H1'	1.25	1.02
1:CA:999:C:N4	1:CA:1042:G:H1	1.59	1.00
1:AA:1025:U:O2	1:AA:1036:G:O6	1.82	0.98
23:CW:27:G:H1	23:CW:43:C:N4	1.62	0.97
1:CA:1029:C:N4	1:CA:1032:G:C6	2.33	0.97

There are no symmetry-related clashes.

## 5.3 Torsion angles

### 5.3.1 Protein backbone ⓘ

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	229/256 (90%)	200 (87%)	19 (8%)	10 (4%)	4	4
2	CB	229/256 (90%)	195 (85%)	24 (10%)	10 (4%)	4	4
3	AC	204/239 (85%)	184 (90%)	17 (8%)	3 (2%)	15	25
3	CC	204/239 (85%)	180 (88%)	22 (11%)	2 (1%)	22	37
4	AD	206/209 (99%)	192 (93%)	12 (6%)	2 (1%)	22	37
4	CD	206/209 (99%)	189 (92%)	16 (8%)	1 (0%)	38	60
5	AE	146/162 (90%)	134 (92%)	9 (6%)	3 (2%)	11	16
5	CE	146/162 (90%)	138 (94%)	7 (5%)	1 (1%)	30	49
6	AF	98/101 (97%)	97 (99%)	1 (1%)	0	100	100
6	CF	98/101 (97%)	96 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
7	AG	153/156 (98%)	143 (94%)	8 (5%)	2 (1%)	18	29
7	CG	153/156 (98%)	140 (92%)	9 (6%)	4 (3%)	8	11
8	AH	135/138 (98%)	129 (96%)	6 (4%)	0	100	100
8	CH	135/138 (98%)	129 (96%)	5 (4%)	1 (1%)	30	49
9	AI	125/128 (98%)	111 (89%)	11 (9%)	3 (2%)	9	13
9	CI	125/128 (98%)	114 (91%)	8 (6%)	3 (2%)	9	13
10	AJ	95/105 (90%)	83 (87%)	9 (10%)	3 (3%)	6	7
10	CJ	94/105 (90%)	81 (86%)	10 (11%)	3 (3%)	6	7
11	AK	112/129 (87%)	106 (95%)	4 (4%)	2 (2%)	13	20
11	CK	112/129 (87%)	107 (96%)	3 (3%)	2 (2%)	13	20
12	AL	120/132 (91%)	115 (96%)	5 (4%)	0	100	100
12	CL	120/132 (91%)	116 (97%)	4 (3%)	0	100	100
13	AM	121/126 (96%)	110 (91%)	9 (7%)	2 (2%)	14	21
13	CM	120/126 (95%)	108 (90%)	9 (8%)	3 (2%)	9	11
14	AN	58/61 (95%)	54 (93%)	4 (7%)	0	100	100
14	CN	58/61 (95%)	53 (91%)	5 (9%)	0	100	100
15	AO	86/89 (97%)	83 (96%)	3 (4%)	0	100	100
15	CO	86/89 (97%)	80 (93%)	4 (5%)	2 (2%)	10	13
16	AP	80/88 (91%)	78 (98%)	2 (2%)	0	100	100
16	CP	80/88 (91%)	77 (96%)	2 (2%)	1 (1%)	18	29
17	AQ	97/105 (92%)	90 (93%)	7 (7%)	0	100	100
17	CQ	97/105 (92%)	91 (94%)	5 (5%)	1 (1%)	22	37
18	AR	66/88 (75%)	64 (97%)	2 (3%)	0	100	100
18	CR	66/88 (75%)	65 (98%)	0	1 (2%)	15	25
19	AS	81/93 (87%)	72 (89%)	9 (11%)	0	100	100
19	CS	81/93 (87%)	71 (88%)	10 (12%)	0	100	100
20	AT	94/106 (89%)	84 (89%)	3 (3%)	7 (7%)	2	1
20	CT	94/106 (89%)	84 (89%)	5 (5%)	5 (5%)	3	2
21	AU	21/27 (78%)	18 (86%)	3 (14%)	0	100	100
21	CU	21/27 (78%)	18 (86%)	2 (10%)	1 (5%)	4	3
27	BD	273/276 (99%)	257 (94%)	15 (6%)	1 (0%)	43	66

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
27	DD	273/276 (99%)	258 (94%)	13 (5%)	2 (1%)	30	49
28	BE	202/206 (98%)	193 (96%)	8 (4%)	1 (0%)	38	60
28	DE	202/206 (98%)	191 (95%)	9 (4%)	2 (1%)	22	37
29	BF	201/210 (96%)	197 (98%)	3 (2%)	1 (0%)	38	60
29	DF	201/210 (96%)	195 (97%)	4 (2%)	2 (1%)	22	37
30	BG	179/182 (98%)	167 (93%)	7 (4%)	5 (3%)	8	9
30	DG	179/182 (98%)	165 (92%)	7 (4%)	7 (4%)	5	5
31	BH	172/180 (96%)	159 (92%)	12 (7%)	1 (1%)	33	54
31	DH	172/180 (96%)	157 (91%)	13 (8%)	2 (1%)	19	31
32	BI	144/148 (97%)	123 (85%)	16 (11%)	5 (4%)	6	6
32	DI	144/148 (97%)	126 (88%)	17 (12%)	1 (1%)	30	49
33	BN	138/140 (99%)	134 (97%)	4 (3%)	0	100	100
33	DN	138/140 (99%)	133 (96%)	4 (3%)	1 (1%)	30	49
34	BO	120/122 (98%)	115 (96%)	5 (4%)	0	100	100
34	DO	120/122 (98%)	115 (96%)	5 (4%)	0	100	100
35	BP	147/150 (98%)	138 (94%)	8 (5%)	1 (1%)	30	49
35	DP	147/150 (98%)	135 (92%)	10 (7%)	2 (1%)	16	27
36	BQ	139/141 (99%)	133 (96%)	6 (4%)	0	100	100
36	DQ	139/141 (99%)	129 (93%)	8 (6%)	2 (1%)	16	27
37	BR	116/118 (98%)	110 (95%)	6 (5%)	0	100	100
37	DR	116/118 (98%)	107 (92%)	9 (8%)	0	100	100
38	BS	108/112 (96%)	102 (94%)	6 (6%)	0	100	100
38	DS	108/112 (96%)	104 (96%)	3 (3%)	1 (1%)	25	41
39	BT	129/146 (88%)	121 (94%)	7 (5%)	1 (1%)	27	45
39	DT	129/146 (88%)	123 (95%)	5 (4%)	1 (1%)	27	45
40	BU	114/118 (97%)	114 (100%)	0	0	100	100
40	DU	114/118 (97%)	114 (100%)	0	0	100	100
41	BV	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	22	37
41	DV	99/101 (98%)	94 (95%)	4 (4%)	1 (1%)	22	37
42	BW	110/113 (97%)	108 (98%)	2 (2%)	0	100	100
42	DW	110/113 (97%)	109 (99%)	1 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
43	BX	93/96 (97%)	90 (97%)	1 (1%)	2 (2%)	10	15
43	DX	93/96 (97%)	90 (97%)	2 (2%)	1 (1%)	21	34
44	BY	105/110 (96%)	96 (91%)	9 (9%)	0	100	100
44	DY	105/110 (96%)	98 (93%)	7 (7%)	0	100	100
45	BZ	169/206 (82%)	143 (85%)	24 (14%)	2 (1%)	19	31
45	DZ	172/206 (84%)	149 (87%)	22 (13%)	1 (1%)	33	54
46	B0	81/85 (95%)	77 (95%)	3 (4%)	1 (1%)	19	31
46	D0	81/85 (95%)	75 (93%)	6 (7%)	0	100	100
47	B1	95/98 (97%)	91 (96%)	4 (4%)	0	100	100
47	D1	95/98 (97%)	91 (96%)	4 (4%)	0	100	100
48	B2	68/72 (94%)	68 (100%)	0	0	100	100
48	D2	68/72 (94%)	68 (100%)	0	0	100	100
49	B3	57/60 (95%)	57 (100%)	0	0	100	100
49	D3	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
50	B4	67/71 (94%)	50 (75%)	11 (16%)	6 (9%)	1	1
50	D4	67/71 (94%)	51 (76%)	12 (18%)	4 (6%)	2	2
51	B5	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
51	D5	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
52	B6	51/54 (94%)	49 (96%)	2 (4%)	0	100	100
52	D6	51/54 (94%)	50 (98%)	1 (2%)	0	100	100
53	B7	46/49 (94%)	46 (100%)	0	0	100	100
53	D7	46/49 (94%)	45 (98%)	0	1 (2%)	10	15
54	B8	62/65 (95%)	62 (100%)	0	0	100	100
54	D8	62/65 (95%)	61 (98%)	1 (2%)	0	100	100
55	B9	35/37 (95%)	35 (100%)	0	0	100	100
55	D9	35/37 (95%)	35 (100%)	0	0	100	100
All	All	11409/12128 (94%)	10643 (93%)	629 (6%)	137 (1%)	19	31

5 of 137 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	9	GLU
2	AB	15	VAL

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Mol	Chain	Res	Type
2	AB	16	HIS
2	AB	17	PHE
2	AB	126	GLU

### 5.3.2 Protein sidechains ⓘ

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution. The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	192/220 (87%)	169 (88%)	23 (12%)	7	12
2	CB	187/220 (85%)	168 (90%)	19 (10%)	11	18
3	AC	143/188 (76%)	132 (92%)	11 (8%)	18	32
3	CC	140/188 (74%)	127 (91%)	13 (9%)	13	22
4	AD	170/181 (94%)	155 (91%)	15 (9%)	14	25
4	CD	173/181 (96%)	160 (92%)	13 (8%)	19	33
5	AE	113/123 (92%)	106 (94%)	7 (6%)	26	43
5	CE	114/123 (93%)	105 (92%)	9 (8%)	18	30
6	AF	83/90 (92%)	77 (93%)	6 (7%)	21	35
6	CF	85/90 (94%)	81 (95%)	4 (5%)	36	59
7	AG	119/127 (94%)	106 (89%)	13 (11%)	9	15
7	CG	120/127 (94%)	111 (92%)	9 (8%)	19	33
8	AH	114/119 (96%)	107 (94%)	7 (6%)	26	44
8	CH	114/119 (96%)	104 (91%)	10 (9%)	14	25
9	AI	90/99 (91%)	82 (91%)	8 (9%)	14	25
9	CI	89/99 (90%)	73 (82%)	16 (18%)	2	4
10	AJ	66/92 (72%)	62 (94%)	4 (6%)	26	44
10	CJ	69/92 (75%)	66 (96%)	3 (4%)	40	64
11	AK	82/99 (83%)	76 (93%)	6 (7%)	20	35
11	CK	83/99 (84%)	77 (93%)	6 (7%)	21	35
12	AL	97/109 (89%)	93 (96%)	4 (4%)	41	66
12	CL	97/109 (89%)	92 (95%)	5 (5%)	32	54

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
13	AM	93/101 (92%)	83 (89%)	10 (11%)	9	16
13	CM	92/101 (91%)	83 (90%)	9 (10%)	12	20
14	AN	49/50 (98%)	43 (88%)	6 (12%)	7	12
14	CN	49/50 (98%)	43 (88%)	6 (12%)	7	12
15	AO	78/80 (98%)	67 (86%)	11 (14%)	5	8
15	CO	78/80 (98%)	70 (90%)	8 (10%)	10	18
16	AP	69/74 (93%)	62 (90%)	7 (10%)	11	19
16	CP	68/74 (92%)	63 (93%)	5 (7%)	20	34
17	AQ	94/97 (97%)	91 (97%)	3 (3%)	51	77
17	CQ	94/97 (97%)	88 (94%)	6 (6%)	25	42
18	AR	59/77 (77%)	56 (95%)	3 (5%)	33	55
18	CR	59/77 (77%)	54 (92%)	5 (8%)	15	27
19	AS	69/80 (86%)	66 (96%)	3 (4%)	40	64
19	CS	67/80 (84%)	57 (85%)	10 (15%)	4	7
20	AT	70/82 (85%)	64 (91%)	6 (9%)	15	26
20	CT	70/82 (85%)	64 (91%)	6 (9%)	15	26
21	AU	18/22 (82%)	16 (89%)	2 (11%)	9	15
21	CU	18/22 (82%)	16 (89%)	2 (11%)	9	15
27	BD	215/218 (99%)	200 (93%)	15 (7%)	21	37
27	DD	215/218 (99%)	202 (94%)	13 (6%)	27	45
28	BE	164/166 (99%)	147 (90%)	17 (10%)	10	17
28	DE	164/166 (99%)	145 (88%)	19 (12%)	8	13
29	BF	160/166 (96%)	142 (89%)	18 (11%)	9	14
29	DF	159/166 (96%)	142 (89%)	17 (11%)	10	16
30	BG	143/156 (92%)	130 (91%)	13 (9%)	14	23
30	DG	142/156 (91%)	128 (90%)	14 (10%)	11	20
31	BH	144/148 (97%)	136 (94%)	8 (6%)	30	49
31	DH	144/148 (97%)	133 (92%)	11 (8%)	19	33
32	BI	110/124 (89%)	92 (84%)	18 (16%)	3	5
32	DI	104/124 (84%)	93 (89%)	11 (11%)	10	17
33	BN	118/119 (99%)	103 (87%)	15 (13%)	6	11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
33	DN	118/119 (99%)	107 (91%)	11 (9%)	13	22
34	BO	100/100 (100%)	97 (97%)	3 (3%)	53	79
34	DO	100/100 (100%)	96 (96%)	4 (4%)	42	67
35	BP	115/116 (99%)	107 (93%)	8 (7%)	21	37
35	DP	115/116 (99%)	103 (90%)	12 (10%)	10	17
36	BQ	111/111 (100%)	97 (87%)	14 (13%)	7	11
36	DQ	111/111 (100%)	101 (91%)	10 (9%)	14	24
37	BR	101/101 (100%)	84 (83%)	17 (17%)	3	5
37	DR	101/101 (100%)	86 (85%)	15 (15%)	4	7
38	BS	87/88 (99%)	78 (90%)	9 (10%)	10	18
38	DS	85/88 (97%)	78 (92%)	7 (8%)	17	29
39	BT	115/127 (91%)	109 (95%)	6 (5%)	32	54
39	DT	113/127 (89%)	106 (94%)	7 (6%)	26	43
40	BU	93/94 (99%)	86 (92%)	7 (8%)	19	33
40	DU	93/94 (99%)	88 (95%)	5 (5%)	31	51
41	BV	80/82 (98%)	72 (90%)	8 (10%)	11	19
41	DV	80/82 (98%)	71 (89%)	9 (11%)	9	14
42	BW	90/92 (98%)	82 (91%)	8 (9%)	14	25
42	DW	90/92 (98%)	84 (93%)	6 (7%)	23	39
43	BX	77/78 (99%)	72 (94%)	5 (6%)	24	41
43	DX	77/78 (99%)	72 (94%)	5 (6%)	24	41
44	BY	85/91 (93%)	80 (94%)	5 (6%)	28	46
44	DY	85/91 (93%)	82 (96%)	3 (4%)	48	73
45	BZ	145/179 (81%)	131 (90%)	14 (10%)	12	20
45	DZ	145/179 (81%)	132 (91%)	13 (9%)	14	24
46	B0	65/67 (97%)	63 (97%)	2 (3%)	52	78
46	D0	65/67 (97%)	63 (97%)	2 (3%)	52	78
47	B1	80/83 (96%)	75 (94%)	5 (6%)	25	42
47	D1	80/83 (96%)	73 (91%)	7 (9%)	14	25
48	B2	65/67 (97%)	61 (94%)	4 (6%)	26	43
48	D2	65/67 (97%)	64 (98%)	1 (2%)	76	93

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
49	B3	51/52 (98%)	47 (92%)	4 (8%)	18	31
49	D3	50/52 (96%)	45 (90%)	5 (10%)	11	19
50	B4	60/63 (95%)	52 (87%)	8 (13%)	6	9
50	D4	53/63 (84%)	47 (89%)	6 (11%)	9	14
51	B5	50/52 (96%)	47 (94%)	3 (6%)	27	45
51	D5	50/52 (96%)	45 (90%)	5 (10%)	11	19
52	B6	51/52 (98%)	46 (90%)	5 (10%)	12	20
52	D6	50/52 (96%)	48 (96%)	2 (4%)	42	67
53	B7	41/42 (98%)	38 (93%)	3 (7%)	20	35
53	D7	41/42 (98%)	40 (98%)	1 (2%)	61	85
54	B8	53/55 (96%)	50 (94%)	3 (6%)	29	48
54	D8	54/55 (98%)	51 (94%)	3 (6%)	30	49
55	B9	34/34 (100%)	34 (100%)	0	100	100
55	D9	34/34 (100%)	34 (100%)	0	100	100
All	All	9320/10066 (93%)	8532 (92%)	788 (8%)	15	27

5 of 788 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
45	BZ	117	LEU
4	CD	150	GLU
41	DV	95	LEU
47	B1	59	THR
2	CB	8	LYS

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 122 such sidechains are listed below:

Mol	Chain	Res	Type
43	BX	82	GLN
3	CC	37	GLN
37	DR	13	HIS
44	BY	6	HIS
49	B3	32	GLN

### 5.3.3 RNA ⓘ

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1495/1521 (98%)	306 (20%)	21 (1%)
1	CA	1501/1521 (98%)	310 (20%)	23 (1%)
22	AV	12/24 (50%)	3 (25%)	0
22	CV	12/24 (50%)	3 (25%)	0
23	AW	71/76 (93%)	30 (42%)	2 (2%)
23	AY	71/76 (93%)	33 (46%)	1 (1%)
23	CW	68/76 (89%)	30 (44%)	3 (4%)
23	CY	69/76 (90%)	28 (40%)	0
24	AX	75/77 (97%)	18 (24%)	1 (1%)
24	CX	75/77 (97%)	19 (25%)	0
25	BA	2811/2915 (96%)	433 (15%)	27 (0%)
25	DA	2791/2915 (95%)	499 (17%)	33 (1%)
26	BB	119/121 (98%)	13 (10%)	0
26	DB	119/121 (98%)	17 (14%)	0
All	All	9289/9620 (96%)	1742 (18%)	111 (1%)

5 of 1742 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	6	G
1	AA	9	G
1	AA	22	G
1	AA	32	A
1	AA	39	G

5 of 111 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
25	BA	2418	U
1	CA	991	U
25	DA	1913	A
25	BA	2701	U
1	CA	509	A

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

36 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$
23	PSU	AW	32	56,23	19,21,22	1.85	5 (26%)	23,30,33	1.18	1 (4%)
23	MIA	AW	37	23	29,31,32	1.88	4 (13%)	41,44,47	1.81	8 (19%)
23	PSU	AW	39	23	19,21,22	1.81	5 (26%)	23,30,33	0.96	2 (8%)
23	7MG	AW	46	23	24,26,27	2.04	6 (25%)	34,39,42	2.45	10 (29%)
23	5MU	AW	54	23	20,22,23	1.69	5 (25%)	25,32,35	2.07	3 (12%)
23	PSU	AW	55	23	19,21,22	1.79	4 (21%)	23,30,33	1.58	2 (8%)
23	4SU	AW	8	23	19,21,22	1.82	4 (21%)	23,30,33	8.03	4 (17%)
24	5MC	AX	32	24	20,22,23	1.70	4 (20%)	26,32,35	1.59	4 (15%)
24	5MU	AX	54	24,56	20,22,23	1.67	5 (25%)	25,32,35	1.71	4 (16%)
24	PSU	AX	55	24	19,21,22	1.97	4 (21%)	23,30,33	1.04	2 (8%)
24	4SU	AX	8	24	19,21,22	1.76	3 (15%)	23,30,33	37.45	2 (8%)
23	PSU	AY	32	23	19,21,22	1.86	4 (21%)	23,30,33	1.30	2 (8%)
23	MIA	AY	37	23	20,24,32	1.79	5 (25%)	27,35,47	1.82	4 (14%)
23	PSU	AY	39	23	19,21,22	1.86	6 (31%)	23,30,33	1.14	1 (4%)
23	7MG	AY	46	23	24,26,27	2.06	7 (29%)	34,39,42	2.60	10 (29%)
23	5MU	AY	54	23	20,22,23	1.80	5 (25%)	25,32,35	1.79	3 (12%)
23	PSU	AY	55	23	19,21,22	1.83	4 (21%)	23,30,33	1.06	2 (8%)
23	4SU	AY	8	23	19,21,22	1.82	4 (21%)	23,30,33	11.54	3 (13%)
23	PSU	CW	32	23	19,21,22	1.75	4 (21%)	23,30,33	1.14	3 (13%)
23	MIA	CW	37	23	20,24,32	1.64	4 (20%)	27,35,47	2.02	4 (14%)
23	PSU	CW	39	23	19,21,22	1.87	5 (26%)	23,30,33	0.92	1 (4%)
23	7MG	CW	46	23	24,26,27	1.98	6 (25%)	34,39,42	2.30	9 (26%)
23	5MU	CW	54	23	20,22,23	1.68	4 (20%)	25,32,35	1.85	3 (12%)
23	PSU	CW	55	23	19,21,22	1.76	4 (21%)	23,30,33	1.45	2 (8%)
23	4SU	CW	8	56,23	19,21,22	1.82	4 (21%)	23,30,33	1.55	2 (8%)
24	5MC	CX	32	24	20,22,23	1.76	4 (20%)	26,32,35	1.57	4 (15%)
24	5MU	CX	54	24	20,22,23	1.58	4 (20%)	25,32,35	2.15	5 (20%)
24	PSU	CX	55	24	19,21,22	1.77	4 (21%)	23,30,33	0.96	1 (4%)
24	4SU	CX	8	24	19,21,22	1.63	3 (15%)	23,30,33	31.47	2 (8%)
23	PSU	CY	32	23	19,21,22	1.73	4 (21%)	23,30,33	0.91	2 (8%)
23	MIA	CY	37	23	20,24,32	1.79	5 (25%)	27,35,47	1.94	5 (18%)
23	PSU	CY	39	23	19,21,22	1.96	5 (26%)	23,30,33	1.13	2 (8%)
23	7MG	CY	46	23	24,26,27	2.00	8 (33%)	34,39,42	2.56	11 (32%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
23	5MU	CY	54	23	20,22,23	1.87	4 (20%)	25,32,35	2.20	4 (16%)
23	PSU	CY	55	23	19,21,22	1.85	4 (21%)	23,30,33	0.94	2 (8%)
23	4SU	CY	8	23	19,21,22	1.82	4 (21%)	23,30,33	1.52	3 (13%)

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
23	PSU	AW	32	56,23	-	0/8/25/26	0/2/2/2
23	MIA	AW	37	23	-	0/16/33/34	0/3/3/3
23	PSU	AW	39	23	-	0/8/25/26	0/2/2/2
23	7MG	AW	46	23	-	0/8/37/38	0/3/3/3
23	5MU	AW	54	23	-	0/6/25/26	0/2/2/2
23	PSU	AW	55	23	-	0/8/25/26	0/2/2/2
23	4SU	AW	8	23	-	0/6/25/26	0/2/2/2
24	5MC	AX	32	24	-	0/6/25/26	0/2/2/2
24	5MU	AX	54	24,56	-	0/6/25/26	0/2/2/2
24	PSU	AX	55	24	-	0/8/25/26	0/2/2/2
24	4SU	AX	8	24	-	0/6/25/26	0/2/2/2
23	PSU	AY	32	23	-	0/8/25/26	0/2/2/2
23	MIA	AY	37	23	-	0/8/25/34	0/3/3/3
23	PSU	AY	39	23	-	0/8/25/26	0/2/2/2
23	7MG	AY	46	23	-	0/8/37/38	0/3/3/3
23	5MU	AY	54	23	-	0/6/25/26	0/2/2/2
23	PSU	AY	55	23	-	0/8/25/26	0/2/2/2
23	4SU	AY	8	23	-	0/6/25/26	0/2/2/2
23	PSU	CW	32	23	-	0/8/25/26	0/2/2/2
23	MIA	CW	37	23	-	0/8/25/34	0/3/3/3
23	PSU	CW	39	23	-	0/8/25/26	0/2/2/2
23	7MG	CW	46	23	-	0/8/37/38	0/3/3/3
23	5MU	CW	54	23	-	0/6/25/26	0/2/2/2
23	PSU	CW	55	23	-	0/8/25/26	0/2/2/2
23	4SU	CW	8	56,23	-	0/6/25/26	0/2/2/2
24	5MC	CX	32	24	-	0/6/25/26	0/2/2/2
24	5MU	CX	54	24	-	0/6/25/26	0/2/2/2
24	PSU	CX	55	24	-	0/8/25/26	0/2/2/2
24	4SU	CX	8	24	-	0/6/25/26	0/2/2/2
23	PSU	CY	32	23	-	0/8/25/26	0/2/2/2
23	MIA	CY	37	23	-	0/8/25/34	0/3/3/3
23	PSU	CY	39	23	-	0/8/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	7MG	CY	46	23	-	0/8/37/38	0/3/3/3
23	5MU	CY	54	23	-	0/6/25/26	0/2/2/2
23	PSU	CY	55	23	-	0/8/25/26	0/2/2/2
23	4SU	CY	8	23	-	0/6/25/26	0/2/2/2

The worst 5 of 164 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	AW	37	MIA	C2-S10	-7.30	1.69	1.75
23	AW	46	7MG	C6-C5	5.50	1.48	1.41
23	AY	46	7MG	C6-C5	5.46	1.48	1.41
23	CY	46	7MG	C6-C5	5.39	1.48	1.41
23	CW	46	7MG	C6-C5	5.39	1.48	1.41

The worst 5 of 132 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
24	AX	8	4SU	C4-N3-C2	179.47	129.28	121.60
24	CX	8	4SU	C4-N3-C2	150.68	128.04	121.60
23	AY	8	4SU	C4-N3-C2	54.70	123.94	121.60
23	AW	8	4SU	C4-N3-C2	37.68	123.21	121.60
24	CX	8	4SU	C2-N1-C1'	7.84	123.12	118.21

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 5.5 Carbohydrates ⓘ

There are no carbohydrates in this entry.

## 5.6 Ligand geometry ⓘ

Of 2152 ligands modelled in this entry, 2148 are monoatomic - leaving 4 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	$\# Z  > 2$
57	PCY	AA	3231	-	42,42,42	1.62	6 (14%)	65,65,65	1.76	13 (20%)
58	SF4	AD	501	4	12,12,12	22.91	12 (100%)	0,24,24	0.00	-
57	PCY	CA	3178	-	42,42,42	1.52	4 (9%)	65,65,65	1.40	7 (10%)
58	SF4	CD	501	4	12,12,12	21.81	12 (100%)	0,24,24	0.00	-

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
57	PCY	AA	3231	-	-	0/33/67/67	0/3/3/3
58	SF4	AD	501	4	-	0/0/48/48	0/6/5/5
57	PCY	CA	3178	-	-	0/33/67/67	0/3/3/3
58	SF4	CD	501	4	-	0/0/48/48	0/6/5/5

The worst 5 of 34 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	AD	501	SF4	S3-FE2	-24.24	2.16	2.33
58	AD	501	SF4	S4-FE2	-23.51	2.17	2.33
58	AD	501	SF4	S1-FE3	-23.49	2.17	2.33
58	AD	501	SF4	S1-FE2	-23.30	2.17	2.33
58	AD	501	SF4	S2-FE1	-23.16	2.17	2.33

The worst 5 of 20 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	AA	3231	PCY	C6-C3-N2	7.74	114.08	107.39
57	CA	3178	PCY	C6-C3-N2	4.70	111.45	107.39
57	AA	3231	PCY	C7-C3-C8	-4.43	94.46	102.92
57	AA	3231	PCY	C18-O21-C23	-4.38	107.00	116.57
57	CA	3178	PCY	C8-C17-N20	-3.71	106.12	112.80

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

## 5.7 Other polymers ⓘ

There are no such residues in this entry.

## 5.8 Polymer linkage issues

There are no chain breaks in this entry.

## 6 Fit of model and data ⓘ

### 6.1 Protein, DNA and RNA chains ⓘ

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	AA	1498/1521 (98%)	0.42	63 (4%) 35 37	40, 67, 92, 106	0
1	CA	1503/1521 (98%)	0.29	54 (3%) 41 43	43, 69, 92, 106	0
2	AB	231/256 (90%)	0.97	38 (16%) 2 2	63, 80, 90, 94	0
2	CB	231/256 (90%)	1.25	61 (26%) 1 1	64, 82, 89, 96	0
3	AC	206/239 (86%)	0.92	26 (12%) 4 4	61, 74, 84, 92	0
3	CC	206/239 (86%)	1.60	64 (31%) 1 1	64, 76, 86, 92	0
4	AD	208/209 (99%)	0.21	4 (1%) 64 67	56, 68, 79, 87	0
4	CD	208/209 (99%)	0.85	22 (10%) 7 6	57, 68, 78, 87	0
5	AE	148/162 (91%)	0.55	3 (2%) 62 65	56, 67, 77, 91	0
5	CE	148/162 (91%)	0.79	11 (7%) 14 14	57, 69, 79, 92	0
6	AF	100/101 (99%)	0.30	2 (2%) 62 65	53, 66, 76, 82	0
6	CF	100/101 (99%)	0.16	0 100 100	54, 66, 76, 82	0
7	AG	155/156 (99%)	0.82	16 (10%) 7 7	61, 71, 83, 93	0
7	CG	155/156 (99%)	0.88	18 (11%) 5 5	62, 73, 84, 96	0
8	AH	137/138 (99%)	0.70	9 (6%) 18 18	57, 69, 75, 83	0
8	CH	137/138 (99%)	0.92	17 (12%) 5 4	59, 71, 77, 84	0
9	AI	127/128 (99%)	1.18	28 (22%) 1 1	56, 78, 85, 90	0
9	CI	127/128 (99%)	1.66	46 (36%) 1 1	62, 79, 86, 89	0
10	AJ	97/105 (92%)	1.40	25 (25%) 1 1	57, 78, 90, 91	0
10	CJ	96/105 (91%)	2.01	44 (45%) 1 0	60, 80, 91, 93	0
11	AK	114/129 (88%)	0.61	5 (4%) 33 35	47, 67, 80, 83	0
11	CK	114/129 (88%)	0.20	1 (0%) 81 83	47, 67, 79, 83	0
12	AL	122/132 (92%)	0.38	0 100 100	42, 56, 69, 75	0
12	CL	122/132 (92%)	0.94	12 (9%) 8 8	45, 58, 71, 75	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	AM	123/126 (97%)	0.61	9 (7%) 15 15	42, 63, 75, 80	0
13	CM	122/126 (96%)	1.55	37 (30%) 1 1	66, 79, 86, 90	0
14	AN	60/61 (98%)	1.12	7 (11%) 5 5	60, 70, 77, 81	0
14	CN	60/61 (98%)	2.69	39 (65%) 0 0	64, 73, 80, 83	0
15	AO	88/89 (98%)	0.30	2 (2%) 57 61	50, 66, 76, 82	0
15	CO	88/89 (98%)	0.64	4 (4%) 32 34	53, 68, 77, 82	0
16	AP	82/88 (93%)	1.12	14 (17%) 2 2	52, 68, 76, 80	0
16	CP	82/88 (93%)	1.01	8 (9%) 8 8	51, 68, 76, 79	0
17	AQ	99/105 (94%)	0.52	4 (4%) 36 39	55, 68, 77, 79	0
17	CQ	99/105 (94%)	1.44	23 (23%) 1 1	57, 69, 77, 80	0
18	AR	68/88 (77%)	0.55	3 (4%) 33 35	58, 66, 76, 80	0
18	CR	68/88 (77%)	0.41	4 (5%) 22 23	59, 68, 77, 80	0
19	AS	83/93 (89%)	0.60	3 (3%) 41 43	63, 73, 81, 91	0
19	CS	83/93 (89%)	1.53	23 (27%) 1 1	66, 76, 84, 92	0
20	AT	96/106 (90%)	1.69	36 (37%) 1 0	57, 68, 80, 86	0
20	CT	96/106 (90%)	1.50	27 (28%) 1 1	58, 68, 82, 87	0
21	AU	23/27 (85%)	1.15	3 (13%) 4 4	63, 66, 72, 75	0
21	CU	23/27 (85%)	1.84	11 (47%) 1 0	65, 68, 74, 77	0
22	AV	13/24 (54%)	1.31	3 (23%) 1 1	52, 64, 82, 98	0
22	CV	13/24 (54%)	0.79	3 (23%) 1 1	56, 67, 85, 99	0
23	AW	73/76 (96%)	1.01	10 (13%) 4 3	47, 84, 97, 104	0
23	AY	73/76 (96%)	0.91	9 (12%) 5 4	38, 97, 101, 104	0
23	CW	71/76 (93%)	1.08	12 (16%) 2 2	68, 91, 102, 104	0
23	CY	72/76 (94%)	1.32	18 (25%) 1 1	43, 97, 101, 104	0
24	AX	76/77 (98%)	0.77	4 (5%) 25 27	39, 68, 85, 93	0
24	CX	76/77 (98%)	0.28	1 (1%) 74 77	43, 71, 86, 94	0
25	BA	2819/2915 (96%)	0.56	55 (1%) 62 65	23, 42, 88, 104	0
25	DA	2800/2915 (96%)	0.04	81 (2%) 49 52	27, 47, 89, 108	0
26	BB	120/121 (99%)	0.15	0 100 100	35, 56, 70, 86	0
26	DB	120/121 (99%)	0.05	0 100 100	42, 62, 73, 87	0
27	BD	275/276 (99%)	0.40	2 (0%) 84 87	23, 40, 55, 79	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
27	DD	275/276 (99%)	0.18	2 (0%) 84 87	26, 42, 56, 77	0
28	BE	204/206 (99%)	0.44	2 (0%) 79 82	22, 47, 66, 76	0
28	DE	204/206 (99%)	0.10	1 (0%) 88 90	28, 50, 67, 77	0
29	BF	203/210 (96%)	0.44	7 (3%) 43 45	23, 49, 73, 88	0
29	DF	203/210 (96%)	0.63	17 (8%) 11 10	27, 55, 75, 88	0
30	BG	181/182 (99%)	0.35	7 (3%) 37 40	44, 64, 78, 90	0
30	DG	181/182 (99%)	1.15	36 (19%) 2 1	50, 67, 80, 90	0
31	BH	174/180 (96%)	0.30	2 (1%) 77 80	51, 65, 76, 85	0
31	DH	174/180 (96%)	2.14	86 (49%) 1 0	57, 70, 80, 86	0
32	BI	146/148 (98%)	0.77	17 (11%) 5 5	50, 71, 82, 86	0
32	DI	146/148 (98%)	0.47	8 (5%) 24 25	53, 71, 82, 85	0
33	BN	140/140 (100%)	0.27	0 100 100	32, 47, 68, 75	0
33	DN	140/140 (100%)	0.71	11 (7%) 13 12	36, 52, 70, 77	0
34	BO	122/122 (100%)	0.11	0 100 100	25, 38, 59, 65	0
34	DO	122/122 (100%)	0.28	0 100 100	47, 59, 74, 79	0
35	BP	149/150 (99%)	0.35	1 (0%) 84 87	24, 55, 74, 81	0
35	DP	149/150 (99%)	0.79	14 (9%) 9 8	29, 59, 76, 82	0
36	BQ	141/141 (100%)	0.66	3 (2%) 60 64	31, 50, 66, 77	0
36	DQ	141/141 (100%)	0.68	14 (9%) 8 7	38, 54, 69, 80	0
37	BR	118/118 (100%)	-0.01	0 100 100	21, 32, 50, 58	0
37	DR	118/118 (100%)	-0.02	0 100 100	38, 53, 64, 74	0
38	BS	110/112 (98%)	0.31	2 (1%) 65 69	32, 48, 64, 67	0
38	DS	110/112 (98%)	1.05	12 (10%) 6 6	58, 69, 80, 85	0
39	BT	131/146 (89%)	0.03	1 (0%) 83 85	31, 42, 68, 89	0
39	DT	131/146 (89%)	0.27	2 (1%) 70 73	51, 64, 78, 84	0
40	BU	116/118 (98%)	-0.04	1 (0%) 81 83	17, 28, 47, 65	0
40	DU	116/118 (98%)	0.32	1 (0%) 81 83	40, 62, 76, 82	0
41	BV	101/101 (100%)	-0.08	0 100 100	15, 35, 54, 67	0
41	DV	101/101 (100%)	0.98	18 (17%) 2 2	39, 74, 81, 88	0
42	BW	112/113 (99%)	0.05	2 (1%) 65 69	17, 28, 53, 79	0
42	DW	112/113 (99%)	0.55	1 (0%) 81 83	38, 51, 68, 86	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
43	BX	95/96 (98%)	0.15	1 (1%) 77 80	21, 35, 60, 75	0
43	DX	95/96 (98%)	0.99	15 (15%) 3 2	38, 56, 76, 85	0
44	BY	107/110 (97%)	0.11	2 (1%) 64 67	30, 46, 65, 83	0
44	DY	107/110 (97%)	1.33	28 (26%) 1 1	57, 71, 83, 86	0
45	BZ	171/206 (83%)	1.51	39 (22%) 1 1	35, 67, 94, 105	0
45	DZ	174/206 (84%)	2.30	69 (39%) 1 0	65, 83, 97, 103	0
46	B0	83/85 (97%)	0.31	4 (4%) 29 31	20, 36, 57, 76	0
46	D0	83/85 (97%)	1.02	10 (12%) 5 5	44, 64, 74, 79	0
47	B1	97/98 (98%)	0.36	4 (4%) 35 38	24, 45, 70, 73	0
47	D1	97/98 (98%)	0.55	2 (2%) 60 64	37, 56, 75, 86	0
48	B2	70/72 (97%)	0.29	1 (1%) 72 75	30, 45, 58, 78	0
48	D2	70/72 (97%)	0.50	1 (1%) 72 75	53, 66, 78, 82	0
49	B3	59/60 (98%)	-0.03	0 100 100	19, 31, 58, 75	0
49	D3	59/60 (98%)	0.60	3 (5%) 27 28	54, 66, 78, 88	0
50	B4	69/71 (97%)	0.42	7 (10%) 7 7	51, 70, 89, 99	0
50	D4	69/71 (97%)	1.54	23 (33%) 1 1	72, 82, 92, 93	0
51	B5	59/60 (98%)	-0.00	0 100 100	17, 27, 43, 54	0
51	D5	59/60 (98%)	0.09	1 (1%) 67 70	35, 50, 66, 74	0
52	B6	53/54 (98%)	-0.04	0 100 100	28, 39, 56, 67	0
52	D6	53/54 (98%)	0.59	2 (3%) 38 41	48, 59, 71, 76	0
53	B7	48/49 (97%)	0.31	2 (4%) 35 37	18, 26, 62, 72	0
53	D7	48/49 (97%)	0.60	3 (6%) 19 20	30, 41, 61, 78	0
54	B8	64/65 (98%)	-0.03	0 100 100	19, 31, 40, 63	0
54	D8	64/65 (98%)	0.80	5 (7%) 13 13	44, 54, 65, 71	0
55	B9	37/37 (100%)	0.52	1 (2%) 52 55	26, 47, 63, 70	0
55	D9	37/37 (100%)	1.48	11 (29%) 1 1	45, 57, 68, 75	0
All	All	20932/21748 (96%)	0.55	1526 (7%) 15 15	15, 61, 87, 108	0

The worst 5 of 1526 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
45	DZ	115	GLY	12.8
45	DZ	116	VAL	12.3

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Mol	Chain	Res	Type	RSRZ
45	BZ	115	GLY	12.2
45	BZ	108	PRO	12.0
45	BZ	116	VAL	11.2

## 6.2 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. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> 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	RSR	LLDF	B-factors(Å <sup>2</sup> )	Q<0.9
23	PSU	CY	55	20/21	0.23	-	92,98,105,119	0
23	MIA	AY	37	22/30	0.17	-	72,87,104,128	0
23	7MG	AW	46	24/25	0.18	-	70,83,111,120	0
24	5MC	AX	32	21/22	0.17	-	48,54,58,72	0
24	4SU	AX	8	20/21	0.15	-	51,64,80,88	0
23	5MU	CY	54	21/22	0.35	-	78,92,113,136	0
23	MIA	AW	37	29/30	0.21	-	40,49,63,75	0
24	PSU	AX	55	20/21	0.15	-	60,67,93,94	0
23	PSU	CY	32	20/21	0.15	-	83,92,99,105	0
23	7MG	CW	46	24/25	0.25	-	85,98,110,126	0
23	4SU	AY	8	20/21	0.15	-	92,98,108,126	0
23	PSU	AW	55	20/21	0.14	-	50,70,80,81	0
23	5MU	CW	54	21/22	0.14	-	60,72,84,86	0
23	4SU	CY	8	20/21	0.17	-	83,99,114,124	0
23	PSU	CY	39	20/21	0.15	-	80,88,99,111	0
24	5MC	CX	32	21/22	0.17	-	66,71,81,83	0
24	5MU	AX	54	21/22	0.16	-	58,65,74,81	0
23	PSU	CW	39	20/21	0.15	-	63,72,81,82	0
23	MIA	CW	37	22/30	0.13	-	55,66,75,81	0
23	7MG	AY	46	24/25	0.21	-	80,94,107,121	0
24	PSU	CX	55	20/21	0.14	-	63,69,89,97	0
23	PSU	AW	39	20/21	0.17	-	49,59,65,65	0
24	5MU	CX	54	21/22	0.18	-	71,80,88,94	0
23	4SU	AW	8	20/21	0.14	-	73,85,96,105	0
23	PSU	CW	32	20/21	0.17	-	70,85,92,95	0
23	PSU	AY	32	20/21	0.23	-	83,91,98,100	0
23	PSU	AY	39	20/21	0.18	-	77,86,97,100	0
23	PSU	CW	55	20/21	0.16	-	61,83,94,94	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
24	4SU	CX	8	20/21	0.16	-	54,78,85,86	0
23	5MU	AW	54	21/22	0.13	-	42,58,69,76	0
23	5MU	AY	54	21/22	0.20	-	81,91,102,125	0
23	4SU	CW	8	20/21	0.16	-	88,94,105,122	0
23	7MG	CY	46	24/25	0.16	-	86,95,102,125	0
23	PSU	AW	32	20/21	0.16	-	50,60,69,69	0
23	PSU	AY	55	20/21	0.25	-	93,99,105,118	0
23	MIA	CY	37	22/30	0.28	-	82,93,117,140	0

### 6.3 Carbohydrates

There are no carbohydrates in this entry.

### 6.4 Ligands

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. LLDF column lists the quality of electron density of the group with respect to its neighbouring residues in protein, DNA or RNA chains. The B-factors column lists the minimum, median, 95<sup>th</sup> 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	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3703	1/1	0.16	-	48,48,48,48	0
56	MG	DA	3072	1/1	0.22	-	36,36,36,36	0
56	MG	DA	3244	1/1	0.12	-	48,48,48,48	0
56	MG	DA	3458	1/1	0.07	-	42,42,42,42	0
56	MG	BA	3505	1/1	0.10	-	54,54,54,54	0
56	MG	DA	3295	1/1	0.12	-	58,58,58,58	0
56	MG	DD	303	1/1	0.27	-	49,49,49,49	0
56	MG	BA	3026	1/1	0.09	-	19,19,19,19	0
56	MG	BA	3784	1/1	0.23	-	52,52,52,52	0
56	MG	AA	3031	1/1	0.07	-	44,44,44,44	0
56	MG	DA	3358	1/1	0.20	-	45,45,45,45	0
56	MG	BA	3021	1/1	0.12	-	60,60,60,60	0
56	MG	DA	3186	1/1	0.17	-	40,40,40,40	0
56	MG	BA	3777	1/1	0.17	-	49,49,49,49	0
56	MG	DA	3643	1/1	0.07	-	60,60,60,60	0
56	MG	DD	306	1/1	0.23	-	44,44,44,44	0
56	MG	DA	3637	1/1	0.06	-	44,44,44,44	0
56	MG	CA	3163	1/1	0.14	-	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3125	1/1	0.11	-	42,42,42,42	0
56	MG	BF	301	1/1	0.23	-	38,38,38,38	0
56	MG	BA	3459	1/1	0.11	-	48,48,48,48	0
56	MG	BA	3266	1/1	0.22	-	64,64,64,64	0
56	MG	DA	3404	1/1	0.16	-	51,51,51,51	0
56	MG	CA	3010	1/1	0.07	-	53,53,53,53	0
56	MG	DA	3444	1/1	0.14	-	30,30,30,30	0
56	MG	DW	3001	1/1	0.31	-	43,43,43,43	0
56	MG	BA	3336	1/1	0.08	-	35,35,35,35	0
60	K	CX	3001	1/1	0.13	-	74,74,74,74	0
56	MG	DA	3552	1/1	0.08	-	43,43,43,43	0
56	MG	BA	3745	1/1	0.16	-	30,30,30,30	0
56	MG	DA	3452	1/1	0.23	-	61,61,61,61	0
56	MG	AA	3128	1/1	0.11	-	41,41,41,41	0
56	MG	DA	3162	1/1	0.21	-	43,43,43,43	0
56	MG	DA	3480	1/1	0.11	-	48,48,48,48	0
59	ZN	AN	501	1/1	0.11	-	58,58,58,58	0
56	MG	AA	3061	1/1	0.06	-	54,54,54,54	0
56	MG	DA	3045	1/1	0.12	-	47,47,47,47	0
56	MG	DA	3254	1/1	0.22	-	21,21,21,21	0
56	MG	BA	3037	1/1	0.18	-	37,37,37,37	0
56	MG	CA	3159	1/1	0.11	-	57,57,57,57	0
56	MG	AA	3010	1/1	0.11	-	59,59,59,59	0
56	MG	BA	3829	1/1	0.28	-	45,45,45,45	0
56	MG	BB	3006	1/1	0.08	-	38,38,38,38	0
56	MG	DA	3152	1/1	0.24	-	42,42,42,42	0
56	MG	BA	3524	1/1	0.10	-	53,53,53,53	0
56	MG	AA	3083	1/1	0.12	-	52,52,52,52	0
56	MG	DA	3018	1/1	0.13	-	41,41,41,41	0
56	MG	DA	3128	1/1	0.07	-	45,45,45,45	0
56	MG	AX	3005	1/1	0.08	-	44,44,44,44	0
56	MG	BA	3211	1/1	0.36	-	36,36,36,36	0
56	MG	BA	3494	1/1	0.10	-	57,57,57,57	0
56	MG	AA	3048	1/1	0.06	-	51,51,51,51	0
56	MG	DA	3053	1/1	0.09	-	45,45,45,45	0
56	MG	AA	3072	1/1	0.12	-	68,68,68,68	0
56	MG	CA	3062	1/1	0.18	-	44,44,44,44	0
56	MG	DA	3602	1/1	0.26	-	51,51,51,51	0
56	MG	BA	3538	1/1	0.15	-	45,45,45,45	0
56	MG	BA	3553	1/1	0.15	-	42,42,42,42	0
56	MG	BA	3387	1/1	0.05	-	65,65,65,65	0
56	MG	BF	307	1/1	0.15	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3678	1/1	0.19	-	58,58,58,58	0
56	MG	DA	3379	1/1	0.16	-	59,59,59,59	0
56	MG	DA	3471	1/1	0.07	-	50,50,50,50	0
56	MG	BA	3234	1/1	0.18	-	48,48,48,48	0
56	MG	BA	3070	1/1	0.16	-	55,55,55,55	0
56	MG	AV	101	1/1	0.15	-	59,59,59,59	0
56	MG	AA	3060	1/1	0.15	-	59,59,59,59	0
56	MG	BA	3356	1/1	0.11	-	55,55,55,55	0
56	MG	BA	3602	1/1	0.16	-	46,46,46,46	0
56	MG	DA	3473	1/1	0.06	-	49,49,49,49	0
56	MG	DA	3122	1/1	0.15	-	36,36,36,36	0
56	MG	DU	3002	1/1	0.20	-	50,50,50,50	0
56	MG	BA	3735	1/1	0.13	-	35,35,35,35	0
56	MG	BA	3015	1/1	0.18	-	47,47,47,47	0
56	MG	DA	3164	1/1	0.24	-	33,33,33,33	0
56	MG	DA	3289	1/1	0.28	-	42,42,42,42	0
56	MG	BA	3194	1/1	0.13	-	37,37,37,37	0
56	MG	DA	3066	1/1	0.12	-	65,65,65,65	0
56	MG	DA	3071	1/1	0.21	-	44,44,44,44	0
56	MG	BA	3220	1/1	0.17	-	55,55,55,55	0
56	MG	BA	3669	1/1	0.11	-	42,42,42,42	0
56	MG	AA	3129	1/1	0.10	-	73,73,73,73	0
56	MG	DA	3198	1/1	0.08	-	51,51,51,51	0
56	MG	DA	3135	1/1	0.08	-	50,50,50,50	0
56	MG	DA	3281	1/1	0.16	-	33,33,33,33	0
56	MG	BA	3780	1/1	0.07	-	41,41,41,41	0
56	MG	DA	3314	1/1	0.14	-	33,33,33,33	0
56	MG	BA	3102	1/1	0.22	-	54,54,54,54	0
56	MG	AA	3014	1/1	0.11	-	69,69,69,69	0
56	MG	BA	3171	1/1	0.26	-	53,53,53,53	0
56	MG	DU	3001	1/1	0.33	-	50,50,50,50	0
56	MG	DA	3374	1/1	0.16	-	37,37,37,37	0
56	MG	DA	3539	1/1	0.10	-	46,46,46,46	0
56	MG	AW	3002	1/1	0.17	-	69,69,69,69	0
56	MG	B3	102	1/1	0.11	-	35,35,35,35	0
56	MG	AA	3123	1/1	0.11	-	57,57,57,57	0
56	MG	AA	3155	1/1	0.17	-	53,53,53,53	0
56	MG	CA	3055	1/1	0.10	-	53,53,53,53	0
56	MG	CA	3164	1/1	0.06	-	54,54,54,54	0
56	MG	DA	3243	1/1	0.20	-	54,54,54,54	0
56	MG	DA	3268	1/1	0.10	-	60,60,60,60	0
56	MG	AA	3077	1/1	0.07	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3556	1/1	0.11	-	45,45,45,45	0
56	MG	BA	3695	1/1	0.17	-	48,48,48,48	0
56	MG	BA	3473	1/1	0.14	-	57,57,57,57	0
56	MG	DA	3195	1/1	0.22	-	57,57,57,57	0
56	MG	DA	3577	1/1	0.08	-	49,49,49,49	0
56	MG	DA	3459	1/1	0.07	-	57,57,57,57	0
56	MG	BD	303	1/1	0.28	-	44,44,44,44	0
56	MG	BA	3734	1/1	0.40	-	60,60,60,60	0
56	MG	DA	3213	1/1	0.18	-	61,61,61,61	0
56	MG	DA	3647	1/1	0.20	-	47,47,47,47	0
56	MG	BA	3804	1/1	0.09	-	58,58,58,58	0
56	MG	DA	3429	1/1	0.21	-	40,40,40,40	0
56	MG	DA	3301	1/1	0.23	-	48,48,48,48	0
56	MG	BA	3244	1/1	0.10	-	63,63,63,63	0
56	MG	BA	3586	1/1	0.11	-	65,65,65,65	0
56	MG	CA	3100	1/1	0.21	-	62,62,62,62	0
56	MG	AA	3115	1/1	0.12	-	51,51,51,51	0
56	MG	DA	3307	1/1	0.13	-	45,45,45,45	0
56	MG	DA	3110	1/1	0.11	-	50,50,50,50	0
56	MG	BA	3395	1/1	0.14	-	44,44,44,44	0
56	MG	CA	3152	1/1	0.25	-	79,79,79,79	0
56	MG	DA	3050	1/1	0.31	-	40,40,40,40	0
56	MG	AA	3043	1/1	0.19	-	26,26,26,26	0
56	MG	BO	5001	1/1	0.13	-	55,55,55,55	0
56	MG	DA	3512	1/1	0.17	-	46,46,46,46	0
56	MG	DA	3394	1/1	0.12	-	49,49,49,49	0
56	MG	CA	3109	1/1	0.17	-	68,68,68,68	0
56	MG	CA	3042	1/1	0.12	-	58,58,58,58	0
56	MG	BA	3798	1/1	0.12	-	61,61,61,61	0
56	MG	DA	3467	1/1	0.22	-	43,43,43,43	0
56	MG	DA	3114	1/1	0.10	-	28,28,28,28	0
56	MG	CW	3002	1/1	0.13	-	74,74,74,74	0
56	MG	CA	3009	1/1	0.17	-	50,50,50,50	0
56	MG	BD	307	1/1	0.19	-	35,35,35,35	0
56	MG	AA	3004	1/1	0.20	-	67,67,67,67	0
56	MG	DA	3298	1/1	0.09	-	33,33,33,33	0
56	MG	BA	3019	1/1	0.24	-	42,42,42,42	0
56	MG	AA	3137	1/1	0.13	-	42,42,42,42	0
56	MG	BA	3004	1/1	0.16	-	36,36,36,36	0
56	MG	BA	3341	1/1	0.19	-	57,57,57,57	0
56	MG	DA	3500	1/1	0.10	-	45,45,45,45	0
56	MG	DA	3097	1/1	0.24	-	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	3038	1/1	0.11	-	51,51,51,51	0
56	MG	DA	3142	1/1	0.07	-	45,45,45,45	0
56	MG	DA	3665	1/1	0.19	-	58,58,58,58	0
56	MG	DA	3277	1/1	0.09	-	56,56,56,56	0
56	MG	BA	3827	1/1	0.19	-	30,30,30,30	0
56	MG	DA	3604	1/1	0.10	-	57,57,57,57	0
56	MG	AA	3208	1/1	0.10	-	45,45,45,45	0
56	MG	AA	3199	1/1	0.18	-	59,59,59,59	0
56	MG	BA	3156	1/1	0.16	-	41,41,41,41	0
56	MG	BA	3608	1/1	0.17	-	60,60,60,60	0
56	MG	DA	3271	1/1	0.11	-	47,47,47,47	0
56	MG	BA	3476	1/1	0.14	-	24,24,24,24	0
56	MG	BA	3262	1/1	0.17	-	47,47,47,47	0
56	MG	BA	3488	1/1	0.10	-	50,50,50,50	0
56	MG	BA	3698	1/1	0.10	-	48,48,48,48	0
56	MG	BA	3662	1/1	0.16	-	50,50,50,50	0
56	MG	BA	3222	1/1	0.24	-	27,27,27,27	0
56	MG	BA	3272	1/1	0.22	-	11,11,11,11	0
56	MG	DA	3407	1/1	0.09	-	46,46,46,46	0
56	MG	AA	3194	1/1	0.13	-	58,58,58,58	0
56	MG	BF	302	1/1	0.16	-	39,39,39,39	0
56	MG	AA	3149	1/1	0.17	-	41,41,41,41	0
56	MG	BA	3537	1/1	0.14	-	49,49,49,49	0
56	MG	DA	3041	1/1	0.17	-	55,55,55,55	0
56	MG	AX	3007	1/1	0.16	-	72,72,72,72	0
56	MG	DA	3343	1/1	0.18	-	40,40,40,40	0
56	MG	DA	3249	1/1	0.19	-	41,41,41,41	0
56	MG	BA	3299	1/1	0.12	-	32,32,32,32	0
56	MG	DA	3077	1/1	0.12	-	43,43,43,43	0
56	MG	DA	3607	1/1	0.31	-	53,53,53,53	0
56	MG	AA	3223	1/1	0.39	-	59,59,59,59	0
56	MG	AA	3078	1/1	0.04	-	48,48,48,48	0
56	MG	DA	3207	1/1	0.19	-	57,57,57,57	0
56	MG	BU	207	1/1	0.12	-	29,29,29,29	0
56	MG	AA	3098	1/1	0.13	-	68,68,68,68	0
56	MG	AA	3130	1/1	0.12	-	43,43,43,43	0
56	MG	BA	3088	1/1	0.27	-	50,50,50,50	0
56	MG	BY	502	1/1	0.09	-	50,50,50,50	0
56	MG	DA	3030	1/1	0.22	-	40,40,40,40	0
56	MG	CA	3049	1/1	0.18	-	68,68,68,68	0
56	MG	BB	3014	1/1	0.12	-	69,69,69,69	0
56	MG	DA	3297	1/1	0.12	-	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3215	1/1	0.31	-	45,45,45,45	0
56	MG	BA	3235	1/1	0.14	-	37,37,37,37	0
56	MG	BA	3755	1/1	0.11	-	52,52,52,52	0
56	MG	DA	3099	1/1	0.13	-	60,60,60,60	0
56	MG	BA	3770	1/1	0.28	-	37,37,37,37	0
56	MG	BA	3130	1/1	0.21	-	48,48,48,48	0
56	MG	DA	3453	1/1	0.20	-	45,45,45,45	0
56	MG	AA	3206	1/1	0.14	-	47,47,47,47	0
56	MG	AA	3006	1/1	0.10	-	37,37,37,37	0
56	MG	BA	3462	1/1	0.08	-	11,11,11,11	0
56	MG	DA	3088	1/1	0.10	-	42,42,42,42	0
56	MG	DA	3256	1/1	0.08	-	47,47,47,47	0
56	MG	AA	3212	1/1	0.18	-	59,59,59,59	0
56	MG	DA	3547	1/1	0.14	-	65,65,65,65	0
56	MG	DA	3612	1/1	0.20	-	56,56,56,56	0
56	MG	BA	3043	1/1	0.25	-	39,39,39,39	0
56	MG	AA	3012	1/1	0.13	-	33,33,33,33	0
56	MG	BA	3582	1/1	0.11	-	44,44,44,44	0
56	MG	BA	3081	1/1	0.13	-	49,49,49,49	0
56	MG	BA	3170	1/1	0.18	-	48,48,48,48	0
56	MG	DA	3299	1/1	0.18	-	43,43,43,43	0
56	MG	BA	3540	1/1	0.15	-	44,44,44,44	0
56	MG	AN	502	1/1	0.15	-	52,52,52,52	0
56	MG	B6	102	1/1	0.20	-	55,55,55,55	0
56	MG	BA	3123	1/1	0.12	-	35,35,35,35	0
56	MG	DA	3355	1/1	0.07	-	50,50,50,50	0
56	MG	DA	3352	1/1	0.09	-	35,35,35,35	0
56	MG	CA	3165	1/1	0.05	-	56,56,56,56	0
56	MG	BA	3256	1/1	0.20	-	49,49,49,49	0
56	MG	AA	3056	1/1	0.14	-	46,46,46,46	0
56	MG	DA	3118	1/1	0.18	-	52,52,52,52	0
56	MG	AA	3180	1/1	0.11	-	57,57,57,57	0
56	MG	DA	3497	1/1	0.31	-	51,51,51,51	0
56	MG	DG	3001	1/1	0.07	-	56,56,56,56	0
56	MG	BR	201	1/1	0.12	-	44,44,44,44	0
56	MG	BA	3435	1/1	0.14	-	57,57,57,57	0
56	MG	BA	3709	1/1	0.25	-	44,44,44,44	0
56	MG	DA	3576	1/1	0.14	-	37,37,37,37	0
56	MG	DA	3623	1/1	0.11	-	70,70,70,70	0
56	MG	AA	3152	1/1	0.13	-	45,45,45,45	0
56	MG	BA	3451	1/1	0.10	-	64,64,64,64	0
56	MG	B8	101	1/1	0.13	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3332	1/1	0.12	-	30,30,30,30	0
56	MG	BA	3605	1/1	0.11	-	61,61,61,61	0
56	MG	DA	3137	1/1	0.20	-	54,54,54,54	0
56	MG	BA	3375	1/1	0.14	-	35,35,35,35	0
56	MG	DB	3004	1/1	0.08	-	51,51,51,51	0
56	MG	B5	102	1/1	0.31	-	45,45,45,45	0
56	MG	BA	3343	1/1	0.15	-	33,33,33,33	0
56	MG	BA	3546	1/1	0.25	-	30,30,30,30	0
56	MG	DA	3090	1/1	0.11	-	45,45,45,45	0
56	MG	BA	3383	1/1	0.15	-	24,24,24,24	0
56	MG	BA	3826	1/1	0.18	-	33,33,33,33	0
56	MG	BA	3338	1/1	0.13	-	41,41,41,41	0
56	MG	CW	3001	1/1	0.26	-	63,63,63,63	0
56	MG	DA	3441	1/1	0.08	-	43,43,43,43	0
56	MG	BA	3796	1/1	0.07	-	40,40,40,40	0
56	MG	AD	502	1/1	0.22	-	56,56,56,56	0
56	MG	DA	3363	1/1	0.25	-	54,54,54,54	0
56	MG	DA	3489	1/1	0.10	-	37,37,37,37	0
56	MG	DA	3010	1/1	0.04	-	43,43,43,43	0
56	MG	DA	3587	1/1	0.08	-	61,61,61,61	0
56	MG	DA	3084	1/1	0.18	-	27,27,27,27	0
56	MG	DA	3160	1/1	0.10	-	59,59,59,59	0
56	MG	DD	304	1/1	0.27	-	31,31,31,31	0
56	MG	BA	3153	1/1	0.19	-	39,39,39,39	0
56	MG	BE	302	1/1	0.14	-	34,34,34,34	0
56	MG	BA	3541	1/1	0.11	-	29,29,29,29	0
56	MG	BA	3186	1/1	0.20	-	51,51,51,51	0
56	MG	DA	3479	1/1	0.12	-	50,50,50,50	0
56	MG	DA	3464	1/1	0.12	-	44,44,44,44	0
56	MG	DA	3074	1/1	0.14	-	50,50,50,50	0
56	MG	CA	3038	1/1	0.17	-	46,46,46,46	0
56	MG	AX	3008	1/1	0.31	-	57,57,57,57	0
56	MG	DF	301	1/1	0.18	-	47,47,47,47	0
56	MG	BA	3646	1/1	0.14	-	38,38,38,38	0
56	MG	CA	3050	1/1	0.09	-	60,60,60,60	0
56	MG	DA	3149	1/1	0.08	-	48,48,48,48	0
56	MG	BA	3198	1/1	0.15	-	55,55,55,55	0
56	MG	AA	3126	1/1	0.14	-	46,46,46,46	0
56	MG	CA	3149	1/1	0.26	-	65,65,65,65	0
56	MG	BA	3811	1/1	0.39	-	38,38,38,38	0
56	MG	BU	204	1/1	0.19	-	38,38,38,38	0
56	MG	AA	3112	1/1	0.10	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3532	1/1	0.23	-	49,49,49,49	0
56	MG	CA	3018	1/1	0.15	-	45,45,45,45	0
56	MG	BA	3046	1/1	0.10	-	43,43,43,43	0
56	MG	DA	3396	1/1	0.16	-	45,45,45,45	0
56	MG	CA	3088	1/1	0.34	-	53,53,53,53	0
56	MG	DA	3231	1/1	0.17	-	57,57,57,57	0
56	MG	DA	3582	1/1	0.08	-	39,39,39,39	0
56	MG	DA	3488	1/1	0.10	-	37,37,37,37	0
56	MG	BA	3706	1/1	0.13	-	50,50,50,50	0
59	ZN	D9	501	1/1	0.07	-	63,63,63,63	0
56	MG	DA	3065	1/1	0.07	-	56,56,56,56	0
56	MG	DA	3580	1/1	0.16	-	64,64,64,64	0
56	MG	BA	3368	1/1	0.14	-	12,12,12,12	0
56	MG	BA	3479	1/1	0.13	-	37,37,37,37	0
56	MG	DA	3475	1/1	0.07	-	42,42,42,42	0
56	MG	DA	3043	1/1	0.19	-	48,48,48,48	0
56	MG	DA	3386	1/1	0.13	-	48,48,48,48	0
56	MG	DA	3433	1/1	0.06	-	61,61,61,61	0
56	MG	DA	3302	1/1	0.10	-	33,33,33,33	0
56	MG	DA	3516	1/1	0.08	-	59,59,59,59	0
56	MG	BA	3683	1/1	0.12	-	61,61,61,61	0
56	MG	BA	3832	1/1	0.08	-	37,37,37,37	0
56	MG	DA	3027	1/1	0.15	-	53,53,53,53	0
56	MG	DA	3524	1/1	0.04	-	38,38,38,38	0
56	MG	BA	3241	1/1	0.18	-	52,52,52,52	0
56	MG	DA	3145	1/1	0.40	-	49,49,49,49	0
56	MG	BE	301	1/1	0.14	-	23,23,23,23	0
56	MG	B0	101	1/1	0.21	-	39,39,39,39	0
56	MG	DA	3105	1/1	0.11	-	60,60,60,60	0
56	MG	DA	3202	1/1	0.21	-	50,50,50,50	0
56	MG	AA	3165	1/1	0.23	-	60,60,60,60	0
56	MG	DA	3206	1/1	0.08	-	39,39,39,39	0
56	MG	AA	3046	1/1	0.12	-	56,56,56,56	0
56	MG	CA	3083	1/1	0.09	-	58,58,58,58	0
56	MG	BA	3573	1/1	0.06	-	32,32,32,32	0
56	MG	DA	3087	1/1	0.14	-	49,49,49,49	0
56	MG	BA	3109	1/1	0.19	-	42,42,42,42	0
56	MG	DA	3569	1/1	0.16	-	57,57,57,57	0
56	MG	DA	3378	1/1	0.13	-	45,45,45,45	0
56	MG	BA	3242	1/1	0.34	-	42,42,42,42	0
56	MG	BA	3054	1/1	0.15	-	30,30,30,30	0
56	MG	BA	3558	1/1	0.18	-	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3141	1/1	0.18	-	38,38,38,38	0
56	MG	AA	3058	1/1	0.12	-	57,57,57,57	0
56	MG	DA	3108	1/1	0.11	-	30,30,30,30	0
56	MG	BA	3193	1/1	0.21	-	57,57,57,57	0
56	MG	DA	3215	1/1	0.14	-	37,37,37,37	0
56	MG	DA	3621	1/1	0.20	-	45,45,45,45	0
56	MG	BX	102	1/1	0.28	-	41,41,41,41	0
56	MG	AA	3039	1/1	0.11	-	61,61,61,61	0
56	MG	DD	302	1/1	0.20	-	49,49,49,49	0
56	MG	DA	3347	1/1	0.14	-	44,44,44,44	0
56	MG	BA	3023	1/1	0.20	-	55,55,55,55	0
56	MG	DA	3337	1/1	0.08	-	43,43,43,43	0
56	MG	BA	3399	1/1	0.10	-	25,25,25,25	0
56	MG	CA	3150	1/1	0.09	-	62,62,62,62	0
56	MG	BA	3569	1/1	0.22	-	57,57,57,57	0
56	MG	DA	3357	1/1	0.13	-	44,44,44,44	0
56	MG	BA	3421	1/1	0.20	-	33,33,33,33	0
56	MG	BA	3489	1/1	0.07	-	44,44,44,44	0
56	MG	BA	3031	1/1	0.20	-	56,56,56,56	0
56	MG	DA	3251	1/1	0.21	-	51,51,51,51	0
56	MG	DA	3465	1/1	0.13	-	55,55,55,55	0
56	MG	AA	3034	1/1	0.23	-	48,48,48,48	0
56	MG	BA	3491	1/1	0.16	-	47,47,47,47	0
56	MG	BA	3049	1/1	0.19	-	37,37,37,37	0
56	MG	BA	3560	1/1	0.18	-	35,35,35,35	0
56	MG	AA	3032	1/1	0.07	-	75,75,75,75	0
56	MG	BA	3611	1/1	0.10	-	42,42,42,42	0
56	MG	DA	3658	1/1	0.27	-	37,37,37,37	0
56	MG	BA	3048	1/1	0.19	-	28,28,28,28	0
56	MG	BU	209	1/1	0.15	-	27,27,27,27	0
56	MG	BA	3187	1/1	0.12	-	36,36,36,36	0
56	MG	CA	3130	1/1	0.07	-	60,60,60,60	0
56	MG	BA	3376	1/1	0.11	-	34,34,34,34	0
56	MG	CA	3007	1/1	0.14	-	69,69,69,69	0
56	MG	BA	3814	1/1	0.19	-	26,26,26,26	0
56	MG	CA	3064	1/1	0.07	-	57,57,57,57	0
56	MG	BD	302	1/1	0.20	-	23,23,23,23	0
56	MG	CA	3148	1/1	0.08	-	67,67,67,67	0
56	MG	BA	3607	1/1	0.17	-	40,40,40,40	0
56	MG	AA	3188	1/1	0.13	-	56,56,56,56	0
56	MG	BA	3791	1/1	0.12	-	47,47,47,47	0
56	MG	DA	3157	1/1	0.21	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3192	1/1	0.18	-	48,48,48,48	0
56	MG	CX	3004	1/1	0.26	-	54,54,54,54	0
56	MG	BA	3468	1/1	0.15	-	49,49,49,49	0
56	MG	BA	3535	1/1	0.21	-	18,18,18,18	0
56	MG	AA	3023	1/1	0.11	-	37,37,37,37	0
56	MG	DA	3478	1/1	0.10	-	47,47,47,47	0
56	MG	BA	3789	1/1	0.19	-	39,39,39,39	0
56	MG	BA	3092	1/1	0.35	-	41,41,41,41	0
56	MG	DA	3430	1/1	0.17	-	28,28,28,28	0
56	MG	BA	3064	1/1	0.21	-	61,61,61,61	0
56	MG	DN	5001	1/1	0.08	-	62,62,62,62	0
56	MG	BA	3509	1/1	0.18	-	39,39,39,39	0
56	MG	BA	3308	1/1	0.17	-	39,39,39,39	0
56	MG	BA	3397	1/1	0.14	-	53,53,53,53	0
56	MG	AA	3161	1/1	0.23	-	46,46,46,46	0
56	MG	DA	3129	1/1	0.09	-	45,45,45,45	0
56	MG	BA	3287	1/1	0.20	-	54,54,54,54	0
56	MG	BB	3020	1/1	0.17	-	54,54,54,54	0
56	MG	DA	3446	1/1	0.30	-	47,47,47,47	0
56	MG	BA	3207	1/1	0.14	-	38,38,38,38	0
56	MG	DA	3217	1/1	0.11	-	50,50,50,50	0
56	MG	AA	3075	1/1	0.19	-	33,33,33,33	0
56	MG	CA	3117	1/1	0.11	-	48,48,48,48	0
56	MG	BA	3358	1/1	0.26	-	64,64,64,64	0
56	MG	AA	3213	1/1	0.14	-	69,69,69,69	0
56	MG	AA	3170	1/1	0.13	-	57,57,57,57	0
56	MG	BE	305	1/1	0.20	-	59,59,59,59	0
56	MG	DY	502	1/1	0.10	-	52,52,52,52	0
56	MG	BA	3621	1/1	0.21	-	52,52,52,52	0
56	MG	CA	3061	1/1	0.17	-	56,56,56,56	0
56	MG	BZ	3001	1/1	0.16	-	52,52,52,52	0
56	MG	DA	3556	1/1	0.24	-	64,64,64,64	0
56	MG	AA	3202	1/1	0.14	-	57,57,57,57	0
56	MG	BA	3623	1/1	0.12	-	52,52,52,52	0
56	MG	BA	3661	1/1	0.10	-	53,53,53,53	0
56	MG	BA	3438	1/1	0.10	-	47,47,47,47	0
56	MG	BA	3117	1/1	0.31	-	42,42,42,42	0
56	MG	AA	3142	1/1	0.24	-	62,62,62,62	0
56	MG	AA	3224	1/1	0.10	-	33,33,33,33	0
56	MG	CA	3168	1/1	0.19	-	72,72,72,72	0
56	MG	AA	3082	1/1	0.15	-	68,68,68,68	0
56	MG	DA	3094	1/1	0.14	-	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3194	1/1	0.21	-	35,35,35,35	0
56	MG	BA	3710	1/1	0.12	-	28,28,28,28	0
56	MG	DA	3593	1/1	0.10	-	39,39,39,39	0
56	MG	BA	3463	1/1	0.14	-	37,37,37,37	0
56	MG	DA	3583	1/1	0.20	-	60,60,60,60	0
56	MG	D0	101	1/1	0.08	-	56,56,56,56	0
56	MG	DA	3462	1/1	0.25	-	43,43,43,43	0
56	MG	CA	3091	1/1	0.12	-	48,48,48,48	0
56	MG	BA	3598	1/1	0.12	-	47,47,47,47	0
56	MG	CX	3003	1/1	0.27	-	50,50,50,50	0
56	MG	BA	3080	1/1	0.06	-	24,24,24,24	0
56	MG	DA	3282	1/1	0.12	-	42,42,42,42	0
56	MG	AX	3013	1/1	0.27	-	39,39,39,39	0
56	MG	BV	201	1/1	0.27	-	29,29,29,29	0
56	MG	BA	3714	1/1	0.05	-	47,47,47,47	0
56	MG	DA	3359	1/1	0.11	-	57,57,57,57	0
56	MG	BA	3195	1/1	0.23	-	50,50,50,50	0
56	MG	CA	3034	1/1	0.10	-	61,61,61,61	0
56	MG	BA	3337	1/1	0.15	-	35,35,35,35	0
56	MG	CA	3058	1/1	0.11	-	70,70,70,70	0
56	MG	DW	3003	1/1	0.35	-	47,47,47,47	0
56	MG	DA	3345	1/1	0.11	-	35,35,35,35	0
56	MG	DA	3188	1/1	0.19	-	50,50,50,50	0
56	MG	BA	3278	1/1	0.09	-	55,55,55,55	0
56	MG	AA	3181	1/1	0.15	-	75,75,75,75	0
56	MG	DA	3330	1/1	0.14	-	46,46,46,46	0
56	MG	BA	3723	1/1	0.15	-	47,47,47,47	0
56	MG	BA	3830	1/1	0.14	-	21,21,21,21	0
56	MG	BA	3835	1/1	0.19	-	46,46,46,46	0
56	MG	BA	3815	1/1	0.17	-	50,50,50,50	0
56	MG	BA	3445	1/1	0.18	-	32,32,32,32	0
56	MG	BA	3304	1/1	0.15	-	39,39,39,39	0
56	MG	CA	3126	1/1	0.16	-	72,72,72,72	0
56	MG	BA	3197	1/1	0.18	-	36,36,36,36	0
56	MG	BA	3677	1/1	0.10	-	62,62,62,62	0
56	MG	BA	3057	1/1	0.17	-	53,53,53,53	0
56	MG	DA	3599	1/1	0.30	-	38,38,38,38	0
56	MG	DA	3495	1/1	0.14	-	62,62,62,62	0
56	MG	DA	3040	1/1	0.06	-	53,53,53,53	0
56	MG	DB	3008	1/1	0.09	-	68,68,68,68	0
56	MG	DA	3070	1/1	0.16	-	48,48,48,48	0
56	MG	DA	3288	1/1	0.15	-	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3443	1/1	0.08	-	51,51,51,51	0
56	MG	BD	310	1/1	0.12	-	31,31,31,31	0
56	MG	DA	3306	1/1	0.12	-	42,42,42,42	0
56	MG	DA	3598	1/1	0.07	-	63,63,63,63	0
56	MG	CA	3033	1/1	0.13	-	56,56,56,56	0
56	MG	AX	3003	1/1	0.12	-	66,66,66,66	0
56	MG	BB	3022	1/1	0.12	-	62,62,62,62	0
56	MG	DA	3664	1/1	0.08	-	38,38,38,38	0
56	MG	BA	3645	1/1	0.18	-	32,32,32,32	0
56	MG	BA	3329	1/1	0.17	-	29,29,29,29	0
56	MG	DA	3007	1/1	0.20	-	54,54,54,54	0
56	MG	CA	3031	1/1	0.09	-	53,53,53,53	0
56	MG	CA	3119	1/1	0.17	-	58,58,58,58	0
56	MG	DA	3193	1/1	0.45	-	40,40,40,40	0
56	MG	DA	3115	1/1	0.15	-	41,41,41,41	0
56	MG	BA	3801	1/1	0.05	-	53,53,53,53	0
56	MG	BA	3824	1/1	0.10	-	43,43,43,43	0
56	MG	CA	3142	1/1	0.13	-	61,61,61,61	0
56	MG	CA	3080	1/1	0.23	-	52,52,52,52	0
56	MG	BA	3136	1/1	0.11	-	58,58,58,58	0
56	MG	BA	3744	1/1	0.10	-	20,20,20,20	0
56	MG	DA	3089	1/1	0.14	-	46,46,46,46	0
56	MG	DA	3092	1/1	0.35	-	48,48,48,48	0
56	MG	BA	3386	1/1	0.14	-	42,42,42,42	0
56	MG	DA	3550	1/1	0.09	-	51,51,51,51	0
56	MG	DA	3078	1/1	0.10	-	45,45,45,45	0
56	MG	DA	3605	1/1	0.14	-	52,52,52,52	0
56	MG	BA	3349	1/1	0.17	-	34,34,34,34	0
56	MG	CA	3063	1/1	0.14	-	59,59,59,59	0
56	MG	BA	3152	1/1	0.14	-	43,43,43,43	0
56	MG	DA	3364	1/1	0.13	-	38,38,38,38	0
56	MG	BA	3286	1/1	0.24	-	46,46,46,46	0
56	MG	BA	3227	1/1	0.20	-	57,57,57,57	0
56	MG	DA	3318	1/1	0.18	-	42,42,42,42	0
56	MG	CA	3014	1/1	0.10	-	47,47,47,47	0
56	MG	BA	3618	1/1	0.19	-	63,63,63,63	0
59	ZN	D6	501	1/1	0.10	-	73,73,73,73	0
56	MG	D0	102	1/1	0.13	-	62,62,62,62	0
56	MG	BA	3052	1/1	0.21	-	43,43,43,43	0
56	MG	AA	3150	1/1	0.30	-	55,55,55,55	0
56	MG	DV	3003	1/1	0.05	-	52,52,52,52	0
59	ZN	CN	501	1/1	0.04	-	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3428	1/1	0.11	-	61,61,61,61	0
56	MG	AA	3163	1/1	0.12	-	37,37,37,37	0
56	MG	BA	3718	1/1	0.19	-	46,46,46,46	0
56	MG	DA	3176	1/1	0.10	-	52,52,52,52	0
56	MG	AA	3024	1/1	0.09	-	58,58,58,58	0
56	MG	B4	502	1/1	0.11	-	72,72,72,72	0
56	MG	DA	3270	1/1	0.15	-	49,49,49,49	0
56	MG	DA	3553	1/1	0.10	-	54,54,54,54	0
56	MG	BR	202	1/1	0.27	-	53,53,53,53	0
56	MG	BA	3797	1/1	0.14	-	52,52,52,52	0
56	MG	DA	3156	1/1	0.12	-	43,43,43,43	0
56	MG	BA	3799	1/1	0.18	-	47,47,47,47	0
56	MG	AA	3179	1/1	0.25	-	79,79,79,79	0
56	MG	BA	3213	1/1	0.07	-	45,45,45,45	0
56	MG	CA	3102	1/1	0.06	-	54,54,54,54	0
56	MG	AA	3204	1/1	0.19	-	71,71,71,71	0
56	MG	DA	3481	1/1	0.14	-	30,30,30,30	0
56	MG	BA	3009	1/1	0.12	-	25,25,25,25	0
56	MG	BA	3209	1/1	0.09	-	41,41,41,41	0
56	MG	BA	3042	1/1	0.24	-	40,40,40,40	0
56	MG	DB	3003	1/1	0.10	-	68,68,68,68	0
56	MG	CA	3020	1/1	0.10	-	73,73,73,73	0
56	MG	DA	3653	1/1	0.13	-	58,58,58,58	0
56	MG	BA	3069	1/1	0.10	-	31,31,31,31	0
56	MG	BA	3400	1/1	0.14	-	25,25,25,25	0
56	MG	AA	3037	1/1	0.12	-	44,44,44,44	0
56	MG	BB	3011	1/1	0.06	-	59,59,59,59	0
56	MG	BA	3431	1/1	0.24	-	55,55,55,55	0
56	MG	BA	3317	1/1	0.17	-	64,64,64,64	0
56	MG	CA	3151	1/1	0.08	-	65,65,65,65	0
56	MG	DA	3333	1/1	0.07	-	50,50,50,50	0
56	MG	AA	3073	1/1	0.23	-	58,58,58,58	0
56	MG	BA	3471	1/1	0.05	-	45,45,45,45	0
56	MG	CA	3108	1/1	0.12	-	51,51,51,51	0
56	MG	CA	3090	1/1	0.13	-	62,62,62,62	0
56	MG	DA	3291	1/1	0.10	-	42,42,42,42	0
56	MG	BA	3514	1/1	0.23	-	41,41,41,41	0
56	MG	AX	3004	1/1	0.16	-	70,70,70,70	0
56	MG	BA	3167	1/1	0.24	-	50,50,50,50	0
56	MG	DA	3075	1/1	0.11	-	39,39,39,39	0
56	MG	BA	3108	1/1	0.16	-	24,24,24,24	0
56	MG	CA	3081	1/1	0.10	-	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3083	1/1	0.13	-	51,51,51,51	0
56	MG	DA	3005	1/1	0.16	-	58,58,58,58	0
56	MG	CA	3087	1/1	0.14	-	63,63,63,63	0
56	MG	DA	3356	1/1	0.20	-	20,20,20,20	0
56	MG	CA	3123	1/1	0.12	-	80,80,80,80	0
60	K	AX	3001	1/1	0.14	-	57,57,57,57	0
56	MG	CA	3166	1/1	0.14	-	66,66,66,66	0
56	MG	DA	3650	1/1	0.22	-	44,44,44,44	0
56	MG	BA	3232	1/1	0.11	-	37,37,37,37	0
56	MG	B5	103	1/1	0.12	-	44,44,44,44	0
56	MG	BA	3423	1/1	0.16	-	23,23,23,23	0
56	MG	DA	3279	1/1	0.09	-	48,48,48,48	0
56	MG	BA	3663	1/1	0.14	-	50,50,50,50	0
56	MG	BF	309	1/1	0.21	-	30,30,30,30	0
56	MG	BA	3396	1/1	0.18	-	55,55,55,55	0
56	MG	BA	3066	1/1	0.30	-	51,51,51,51	0
56	MG	BX	101	1/1	0.27	-	65,65,65,65	0
56	MG	DA	3661	1/1	0.18	-	42,42,42,42	0
56	MG	BA	3807	1/1	0.09	-	67,67,67,67	0
56	MG	BA	3419	1/1	0.16	-	39,39,39,39	0
56	MG	BA	3614	1/1	0.13	-	26,26,26,26	0
56	MG	DA	3460	1/1	0.14	-	65,65,65,65	0
56	MG	DA	3372	1/1	0.08	-	47,47,47,47	0
56	MG	BA	3769	1/1	0.12	-	56,56,56,56	0
56	MG	DA	3081	1/1	0.16	-	45,45,45,45	0
56	MG	DA	3537	1/1	0.13	-	55,55,55,55	0
56	MG	DA	3368	1/1	0.15	-	50,50,50,50	0
56	MG	DA	3170	1/1	0.08	-	50,50,50,50	0
56	MG	BA	3366	1/1	0.14	-	45,45,45,45	0
56	MG	DA	3375	1/1	0.08	-	40,40,40,40	0
56	MG	DA	3013	1/1	0.11	-	40,40,40,40	0
56	MG	DA	3384	1/1	0.09	-	52,52,52,52	0
56	MG	BU	208	1/1	0.18	-	41,41,41,41	0
56	MG	DA	3163	1/1	0.17	-	49,49,49,49	0
56	MG	DA	3663	1/1	0.20	-	60,60,60,60	0
56	MG	DA	3085	1/1	0.12	-	52,52,52,52	0
56	MG	DA	3575	1/1	0.07	-	47,47,47,47	0
56	MG	AW	3004	1/1	0.09	-	51,51,51,51	0
56	MG	AA	3009	1/1	0.17	-	46,46,46,46	0
56	MG	BA	3739	1/1	0.18	-	46,46,46,46	0
56	MG	BA	3580	1/1	0.17	-	42,42,42,42	0
56	MG	CA	3120	1/1	0.10	-	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3625	1/1	0.13	-	57,57,57,57	0
56	MG	DA	3093	1/1	0.08	-	57,57,57,57	0
56	MG	BA	3140	1/1	0.17	-	46,46,46,46	0
56	MG	BA	3237	1/1	0.18	-	36,36,36,36	0
56	MG	CA	3078	1/1	0.10	-	48,48,48,48	0
56	MG	DA	3139	1/1	0.07	-	40,40,40,40	0
56	MG	BA	3284	1/1	0.21	-	51,51,51,51	0
56	MG	CA	3028	1/1	0.12	-	60,60,60,60	0
56	MG	DA	3672	1/1	0.23	-	52,52,52,52	0
56	MG	DA	3112	1/1	0.22	-	42,42,42,42	0
56	MG	BA	3373	1/1	0.17	-	38,38,38,38	0
56	MG	BA	3620	1/1	0.14	-	47,47,47,47	0
56	MG	CA	3006	1/1	0.22	-	53,53,53,53	0
56	MG	CA	3043	1/1	0.20	-	54,54,54,54	0
56	MG	DA	3326	1/1	0.12	-	46,46,46,46	0
56	MG	BA	3655	1/1	0.10	-	50,50,50,50	0
56	MG	DA	3236	1/1	0.10	-	48,48,48,48	0
56	MG	DA	3366	1/1	0.13	-	50,50,50,50	0
56	MG	CA	3004	1/1	0.06	-	71,71,71,71	0
56	MG	BA	3074	1/1	0.16	-	32,32,32,32	0
56	MG	BA	3047	1/1	0.08	-	27,27,27,27	0
56	MG	DA	3320	1/1	0.15	-	40,40,40,40	0
56	MG	BF	310	1/1	0.32	-	38,38,38,38	0
56	MG	AA	3081	1/1	0.17	-	58,58,58,58	0
56	MG	BA	3671	1/1	0.15	-	45,45,45,45	0
56	MG	DA	3609	1/1	0.16	-	60,60,60,60	0
56	MG	BA	3478	1/1	0.17	-	59,59,59,59	0
56	MG	DA	3405	1/1	0.16	-	52,52,52,52	0
56	MG	BA	3500	1/1	0.16	-	26,26,26,26	0
56	MG	AA	3146	1/1	0.10	-	53,53,53,53	0
56	MG	DW	3002	1/1	0.49	-	65,65,65,65	0
56	MG	DA	3538	1/1	0.25	-	56,56,56,56	0
56	MG	BA	3615	1/1	0.33	-	35,35,35,35	0
56	MG	AA	3002	1/1	0.08	-	62,62,62,62	0
56	MG	BA	3246	1/1	0.05	-	27,27,27,27	0
56	MG	DA	3493	1/1	0.24	-	58,58,58,58	0
56	MG	CA	3137	1/1	0.16	-	52,52,52,52	0
56	MG	D7	102	1/1	0.25	-	43,43,43,43	0
56	MG	DO	5001	1/1	0.12	-	51,51,51,51	0
56	MG	DA	3545	1/1	0.14	-	37,37,37,37	0
56	MG	BA	3416	1/1	0.16	-	21,21,21,21	0
56	MG	DA	3642	1/1	0.12	-	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	3131	1/1	0.14	-	55,55,55,55	0
56	MG	BA	3293	1/1	0.18	-	52,52,52,52	0
56	MG	DA	3111	1/1	0.11	-	33,33,33,33	0
56	MG	BA	3090	1/1	0.19	-	37,37,37,37	0
56	MG	CA	3084	1/1	0.17	-	69,69,69,69	0
56	MG	BA	3428	1/1	0.25	-	38,38,38,38	0
56	MG	BA	3345	1/1	0.09	-	44,44,44,44	0
56	MG	BA	3616	1/1	0.07	-	53,53,53,53	0
56	MG	BA	3184	1/1	0.15	-	30,30,30,30	0
56	MG	BA	3138	1/1	0.11	-	48,48,48,48	0
56	MG	DA	3117	1/1	0.14	-	60,60,60,60	0
56	MG	B8	102	1/1	0.08	-	50,50,50,50	0
56	MG	DA	3020	1/1	0.12	-	50,50,50,50	0
56	MG	CA	3027	1/1	0.43	-	70,70,70,70	0
56	MG	AA	3139	1/1	0.08	-	58,58,58,58	0
56	MG	BA	3444	1/1	0.16	-	48,48,48,48	0
56	MG	CA	3170	1/1	0.10	-	64,64,64,64	0
56	MG	DA	3348	1/1	0.22	-	38,38,38,38	0
56	MG	BA	3350	1/1	0.21	-	27,27,27,27	0
56	MG	DA	3278	1/1	0.15	-	53,53,53,53	0
57	PCY	AA	3231	40/40	0.28	-	45,69,81,87	0
56	MG	BA	3657	1/1	0.17	-	47,47,47,47	0
56	MG	DA	3419	1/1	0.19	-	44,44,44,44	0
56	MG	AA	3168	1/1	0.06	-	62,62,62,62	0
56	MG	DA	3026	1/1	0.10	-	42,42,42,42	0
56	MG	DA	3220	1/1	0.14	-	46,46,46,46	0
56	MG	BA	3461	1/1	0.19	-	31,31,31,31	0
56	MG	DA	3006	1/1	0.13	-	43,43,43,43	0
56	MG	DA	3175	1/1	0.03	-	53,53,53,53	0
56	MG	CE	202	1/1	0.05	-	66,66,66,66	0
56	MG	BA	3633	1/1	0.14	-	45,45,45,45	0
56	MG	BA	3030	1/1	0.14	-	50,50,50,50	0
56	MG	DA	3144	1/1	0.09	-	63,63,63,63	0
56	MG	BA	3121	1/1	0.45	-	41,41,41,41	0
56	MG	DA	3159	1/1	0.18	-	41,41,41,41	0
56	MG	DB	3010	1/1	0.11	-	55,55,55,55	0
56	MG	CA	3082	1/1	0.08	-	63,63,63,63	0
56	MG	BA	3340	1/1	0.11	-	45,45,45,45	0
56	MG	BA	3155	1/1	0.12	-	54,54,54,54	0
56	MG	DA	3048	1/1	0.09	-	45,45,45,45	0
56	MG	BA	3610	1/1	0.14	-	64,64,64,64	0
56	MG	DA	3662	1/1	0.07	-	27,27,27,27	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3414	1/1	0.19	-	29,29,29,29	0
56	MG	BA	3319	1/1	0.28	-	20,20,20,20	0
56	MG	BA	3367	1/1	0.30	-	53,53,53,53	0
56	MG	DA	3614	1/1	0.13	-	50,50,50,50	0
56	MG	BA	3525	1/1	0.16	-	52,52,52,52	0
56	MG	BA	3787	1/1	0.19	-	59,59,59,59	0
56	MG	AA	3018	1/1	0.07	-	51,51,51,51	0
56	MG	BA	3581	1/1	0.10	-	38,38,38,38	0
56	MG	BA	3225	1/1	0.25	-	42,42,42,42	0
56	MG	AA	3116	1/1	0.23	-	61,61,61,61	0
56	MG	BA	3354	1/1	0.17	-	31,31,31,31	0
56	MG	DA	3517	1/1	0.08	-	47,47,47,47	0
56	MG	BA	3680	1/1	0.12	-	52,52,52,52	0
56	MG	DA	3196	1/1	0.17	-	53,53,53,53	0
56	MG	BA	3502	1/1	0.24	-	45,45,45,45	0
56	MG	BE	308	1/1	0.13	-	21,21,21,21	0
56	MG	DQ	3002	1/1	0.09	-	42,42,42,42	0
56	MG	DA	3127	1/1	0.21	-	38,38,38,38	0
56	MG	BA	3564	1/1	0.16	-	41,41,41,41	0
56	MG	DA	3509	1/1	0.14	-	53,53,53,53	0
56	MG	CA	3059	1/1	0.32	-	67,67,67,67	0
56	MG	BA	3689	1/1	0.15	-	57,57,57,57	0
56	MG	BA	3315	1/1	0.09	-	56,56,56,56	0
56	MG	DA	3014	1/1	0.10	-	50,50,50,50	0
56	MG	BA	3690	1/1	0.19	-	63,63,63,63	0
56	MG	BA	3020	1/1	0.15	-	61,61,61,61	0
56	MG	BA	3405	1/1	0.19	-	33,33,33,33	0
56	MG	BA	3713	1/1	0.18	-	54,54,54,54	0
56	MG	BA	3149	1/1	0.13	-	53,53,53,53	0
56	MG	DA	3437	1/1	0.19	-	39,39,39,39	0
56	MG	CA	3112	1/1	0.11	-	59,59,59,59	0
56	MG	BA	3233	1/1	0.24	-	48,48,48,48	0
56	MG	BA	3335	1/1	0.15	-	50,50,50,50	0
56	MG	BA	3550	1/1	0.19	-	34,34,34,34	0
56	MG	BA	3674	1/1	0.10	-	47,47,47,47	0
56	MG	AA	3122	1/1	0.18	-	60,60,60,60	0
56	MG	CA	3039	1/1	0.25	-	50,50,50,50	0
56	MG	DA	3402	1/1	0.23	-	65,65,65,65	0
56	MG	BA	3245	1/1	0.25	-	29,29,29,29	0
56	MG	DA	3102	1/1	0.11	-	57,57,57,57	0
56	MG	DA	3107	1/1	0.15	-	49,49,49,49	0
56	MG	DA	3620	1/1	0.12	-	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3450	1/1	0.15	-	36,36,36,36	0
56	MG	AA	3100	1/1	0.11	-	68,68,68,68	0
56	MG	DA	3592	1/1	0.17	-	52,52,52,52	0
56	MG	AA	3036	1/1	0.10	-	52,52,52,52	0
56	MG	DA	3600	1/1	0.09	-	53,53,53,53	0
56	MG	BA	3820	1/1	0.14	-	45,45,45,45	0
56	MG	DA	3448	1/1	0.14	-	41,41,41,41	0
56	MG	DA	3492	1/1	0.10	-	47,47,47,47	0
56	MG	BA	3393	1/1	0.21	-	54,54,54,54	0
56	MG	BA	3294	1/1	0.13	-	45,45,45,45	0
56	MG	BA	3779	1/1	0.12	-	59,59,59,59	0
56	MG	DQ	3003	1/1	0.15	-	58,58,58,58	0
56	MG	BB	3018	1/1	0.15	-	77,77,77,77	0
56	MG	BA	3027	1/1	0.19	-	42,42,42,42	0
56	MG	CA	3096	1/1	0.10	-	61,61,61,61	0
56	MG	BA	3579	1/1	0.07	-	47,47,47,47	0
56	MG	BA	3715	1/1	0.13	-	53,53,53,53	0
56	MG	AA	3019	1/1	0.17	-	48,48,48,48	0
56	MG	AA	3027	1/1	0.25	-	54,54,54,54	0
56	MG	DA	3499	1/1	0.06	-	60,60,60,60	0
56	MG	DA	3625	1/1	0.11	-	53,53,53,53	0
56	MG	B5	105	1/1	0.11	-	49,49,49,49	0
56	MG	BA	3128	1/1	0.19	-	27,27,27,27	0
56	MG	BA	3084	1/1	0.29	-	45,45,45,45	0
56	MG	CA	3144	1/1	0.12	-	59,59,59,59	0
56	MG	BA	3818	1/1	0.22	-	32,32,32,32	0
56	MG	BA	3474	1/1	0.06	-	61,61,61,61	0
56	MG	CA	3104	1/1	0.08	-	64,64,64,64	0
56	MG	DA	3670	1/1	0.15	-	38,38,38,38	0
56	MG	DA	3513	1/1	0.14	-	50,50,50,50	0
56	MG	BA	3411	1/1	0.11	-	36,36,36,36	0
56	MG	DA	3155	1/1	0.27	-	40,40,40,40	0
56	MG	DA	3015	1/1	0.21	-	31,31,31,31	0
56	MG	DA	3639	1/1	0.10	-	64,64,64,64	0
56	MG	AA	3103	1/1	0.10	-	59,59,59,59	0
56	MG	DA	3029	1/1	0.16	-	51,51,51,51	0
56	MG	BA	3805	1/1	0.11	-	21,21,21,21	0
56	MG	DA	3317	1/1	0.15	-	55,55,55,55	0
56	MG	DA	3068	1/1	0.20	-	58,58,58,58	0
56	MG	BA	3183	1/1	0.15	-	40,40,40,40	0
56	MG	DA	3246	1/1	0.11	-	39,39,39,39	0
56	MG	DA	3324	1/1	0.22	-	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3529	1/1	0.06	-	41,41,41,41	0
56	MG	BA	3173	1/1	0.20	-	36,36,36,36	0
56	MG	BA	3522	1/1	0.24	-	36,36,36,36	0
56	MG	CA	3155	1/1	0.12	-	50,50,50,50	0
56	MG	DA	3016	1/1	0.10	-	53,53,53,53	0
56	MG	CA	3030	1/1	0.05	-	59,59,59,59	0
56	MG	BA	3283	1/1	0.12	-	36,36,36,36	0
56	MG	BA	3606	1/1	0.18	-	34,34,34,34	0
56	MG	DA	3608	1/1	0.13	-	53,53,53,53	0
56	MG	BA	3520	1/1	0.29	-	47,47,47,47	0
56	MG	DA	3062	1/1	0.09	-	53,53,53,53	0
56	MG	BA	3481	1/1	0.21	-	45,45,45,45	0
56	MG	DA	3126	1/1	0.08	-	44,44,44,44	0
56	MG	DA	3651	1/1	0.10	-	47,47,47,47	0
56	MG	BA	3290	1/1	0.15	-	58,58,58,58	0
56	MG	DQ	3001	1/1	0.09	-	48,48,48,48	0
56	MG	BA	3328	1/1	0.14	-	60,60,60,60	0
56	MG	DA	3021	1/1	0.26	-	48,48,48,48	0
56	MG	CA	3097	1/1	0.18	-	57,57,57,57	0
56	MG	DA	3255	1/1	0.05	-	59,59,59,59	0
56	MG	BA	3126	1/1	0.17	-	43,43,43,43	0
56	MG	AW	3006	1/1	0.08	-	50,50,50,50	0
56	MG	AA	3207	1/1	0.16	-	68,68,68,68	0
56	MG	DA	3208	1/1	0.10	-	59,59,59,59	0
56	MG	AA	3064	1/1	0.09	-	61,61,61,61	0
56	MG	CA	3134	1/1	0.09	-	70,70,70,70	0
56	MG	BA	3063	1/1	0.14	-	47,47,47,47	0
58	SF4	CD	501	8/8	0.12	-	54,64,76,87	0
56	MG	DA	3451	1/1	0.27	-	56,56,56,56	0
56	MG	CA	3044	1/1	0.19	-	55,55,55,55	0
56	MG	CX	3005	1/1	0.32	-	58,58,58,58	0
56	MG	DA	3051	1/1	0.15	-	56,56,56,56	0
56	MG	DA	3191	1/1	0.18	-	44,44,44,44	0
56	MG	BA	3059	1/1	0.10	-	55,55,55,55	0
56	MG	DA	3310	1/1	0.19	-	55,55,55,55	0
56	MG	DA	3523	1/1	0.12	-	57,57,57,57	0
56	MG	BA	3236	1/1	0.20	-	43,43,43,43	0
56	MG	DA	3613	1/1	0.13	-	50,50,50,50	0
56	MG	AA	3088	1/1	0.23	-	56,56,56,56	0
56	MG	BA	3098	1/1	0.24	-	26,26,26,26	0
56	MG	BA	3622	1/1	0.13	-	31,31,31,31	0
56	MG	AA	3127	1/1	0.11	-	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3216	1/1	0.11	-	34,34,34,34	0
56	MG	BA	3014	1/1	0.17	-	33,33,33,33	0
56	MG	BA	3813	1/1	0.12	-	4,4,4,4	0
56	MG	AA	3214	1/1	0.12	-	44,44,44,44	0
56	MG	DA	3483	1/1	0.27	-	48,48,48,48	0
56	MG	DA	3409	1/1	0.09	-	47,47,47,47	0
56	MG	AA	3071	1/1	0.22	-	62,62,62,62	0
56	MG	BA	3001	1/1	0.18	-	43,43,43,43	0
56	MG	AF	3001	1/1	0.18	-	40,40,40,40	0
56	MG	BA	3446	1/1	0.28	-	52,52,52,52	0
56	MG	BA	3008	1/1	0.16	-	27,27,27,27	0
56	MG	BA	3169	1/1	0.24	-	47,47,47,47	0
56	MG	DA	3353	1/1	0.11	-	37,37,37,37	0
56	MG	D8	5001	1/1	0.17	-	55,55,55,55	0
56	MG	BA	3691	1/1	0.14	-	38,38,38,38	0
56	MG	BA	3802	1/1	0.10	-	56,56,56,56	0
56	MG	BA	3809	1/1	0.08	-	29,29,29,29	0
56	MG	BA	3391	1/1	0.12	-	41,41,41,41	0
56	MG	DA	3440	1/1	0.11	-	39,39,39,39	0
56	MG	BA	3113	1/1	0.20	-	58,58,58,58	0
56	MG	AA	3028	1/1	0.27	-	56,56,56,56	0
56	MG	BA	3521	1/1	0.11	-	36,36,36,36	0
56	MG	DA	3456	1/1	0.16	-	49,49,49,49	0
56	MG	DA	3286	1/1	0.14	-	64,64,64,64	0
56	MG	DA	3058	1/1	0.10	-	46,46,46,46	0
56	MG	BA	3458	1/1	0.20	-	19,19,19,19	0
56	MG	AA	3057	1/1	0.17	-	61,61,61,61	0
56	MG	CA	3036	1/1	0.13	-	60,60,60,60	0
56	MG	AX	3011	1/1	0.11	-	50,50,50,50	0
56	MG	DA	3476	1/1	0.16	-	45,45,45,45	0
56	MG	DA	3309	1/1	0.12	-	42,42,42,42	0
56	MG	BA	3095	1/1	0.21	-	53,53,53,53	0
56	MG	BA	3650	1/1	0.10	-	57,57,57,57	0
56	MG	DA	3054	1/1	0.11	-	43,43,43,43	0
56	MG	BA	3176	1/1	0.21	-	55,55,55,55	0
56	MG	BA	3452	1/1	0.25	-	27,27,27,27	0
56	MG	BA	3178	1/1	0.27	-	38,38,38,38	0
56	MG	DA	3498	1/1	0.09	-	57,57,57,57	0
56	MG	DA	3292	1/1	0.07	-	37,37,37,37	0
56	MG	BA	3017	1/1	0.18	-	50,50,50,50	0
56	MG	CA	3032	1/1	0.19	-	52,52,52,52	0
56	MG	BA	3763	1/1	0.25	-	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3778	1/1	0.11	-	35,35,35,35	0
56	MG	BA	3139	1/1	0.09	-	61,61,61,61	0
56	MG	DA	3056	1/1	0.18	-	44,44,44,44	0
56	MG	DA	3486	1/1	0.14	-	44,44,44,44	0
56	MG	DA	3549	1/1	0.14	-	57,57,57,57	0
56	MG	BA	3499	1/1	0.19	-	33,33,33,33	0
56	MG	BA	3441	1/1	0.23	-	46,46,46,46	0
56	MG	BA	3351	1/1	0.17	-	34,34,34,34	0
56	MG	BA	3154	1/1	0.21	-	29,29,29,29	0
59	ZN	B5	104	1/1	0.14	-	38,38,38,38	0
56	MG	DA	3336	1/1	0.05	-	47,47,47,47	0
56	MG	BA	3353	1/1	0.07	-	49,49,49,49	0
56	MG	BA	3255	1/1	0.17	-	58,58,58,58	0
56	MG	BA	3422	1/1	0.17	-	32,32,32,32	0
56	MG	BA	3418	1/1	0.12	-	32,32,32,32	0
56	MG	CA	3176	1/1	0.10	-	43,43,43,43	0
56	MG	BA	3551	1/1	0.17	-	33,33,33,33	0
56	MG	AA	3219	1/1	0.18	-	65,65,65,65	0
56	MG	DA	3169	1/1	0.12	-	49,49,49,49	0
56	MG	BA	3111	1/1	0.14	-	47,47,47,47	0
56	MG	BA	3148	1/1	0.19	-	15,15,15,15	0
56	MG	BA	3704	1/1	0.22	-	55,55,55,55	0
56	MG	DA	3253	1/1	0.20	-	38,38,38,38	0
56	MG	BA	3624	1/1	0.15	-	29,29,29,29	0
56	MG	BE	304	1/1	0.30	-	40,40,40,40	0
56	MG	AA	3025	1/1	0.09	-	43,43,43,43	0
56	MG	BA	3442	1/1	0.13	-	59,59,59,59	0
56	MG	BA	3318	1/1	0.17	-	37,37,37,37	0
56	MG	AA	3086	1/1	0.18	-	52,52,52,52	0
56	MG	BP	203	1/1	0.13	-	32,32,32,32	0
56	MG	BA	3810	1/1	0.14	-	50,50,50,50	0
56	MG	CA	3153	1/1	0.14	-	61,61,61,61	0
56	MG	BA	3808	1/1	0.12	-	34,34,34,34	0
56	MG	B6	101	1/1	0.15	-	48,48,48,48	0
56	MG	BA	3206	1/1	0.18	-	29,29,29,29	0
56	MG	BA	3003	1/1	0.17	-	20,20,20,20	0
56	MG	DA	3106	1/1	0.19	-	61,61,61,61	0
56	MG	AA	3140	1/1	0.11	-	71,71,71,71	0
56	MG	BA	3145	1/1	0.38	-	32,32,32,32	0
56	MG	BA	3089	1/1	0.21	-	45,45,45,45	0
56	MG	DA	3674	1/1	0.36	-	73,73,73,73	0
56	MG	BA	3143	1/1	0.18	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3711	1/1	0.19	-	45,45,45,45	0
56	MG	DA	3494	1/1	0.11	-	30,30,30,30	0
56	MG	AA	3156	1/1	0.11	-	52,52,52,52	0
56	MG	BA	3726	1/1	0.21	-	70,70,70,70	0
56	MG	DA	3339	1/1	0.07	-	52,52,52,52	0
56	MG	BA	3717	1/1	0.12	-	58,58,58,58	0
56	MG	DD	301	1/1	0.25	-	39,39,39,39	0
56	MG	DA	3408	1/1	0.15	-	48,48,48,48	0
56	MG	AA	3154	1/1	0.12	-	59,59,59,59	0
56	MG	BA	3274	1/1	0.12	-	49,49,49,49	0
56	MG	BA	3455	1/1	0.16	-	39,39,39,39	0
56	MG	AA	3067	1/1	0.07	-	59,59,59,59	0
56	MG	DA	3383	1/1	0.23	-	37,37,37,37	0
56	MG	B9	502	1/1	0.08	-	57,57,57,57	0
56	MG	CJ	5001	1/1	0.12	-	76,76,76,76	0
56	MG	DA	3073	1/1	0.08	-	54,54,54,54	0
56	MG	CA	3001	1/1	0.20	-	73,73,73,73	0
56	MG	BA	3654	1/1	0.13	-	55,55,55,55	0
56	MG	BA	3557	1/1	0.17	-	56,56,56,56	0
56	MG	DA	3381	1/1	0.11	-	60,60,60,60	0
56	MG	BA	3217	1/1	0.17	-	20,20,20,20	0
56	MG	DA	3076	1/1	0.14	-	43,43,43,43	0
56	MG	CA	3101	1/1	0.23	-	54,54,54,54	0
56	MG	BA	3629	1/1	0.14	-	56,56,56,56	0
56	MG	BA	3105	1/1	0.36	-	69,69,69,69	0
56	MG	DA	3574	1/1	0.12	-	51,51,51,51	0
56	MG	DA	3426	1/1	0.12	-	41,41,41,41	0
56	MG	DA	3177	1/1	0.24	-	54,54,54,54	0
56	MG	DA	3648	1/1	0.11	-	60,60,60,60	0
56	MG	DA	3283	1/1	0.21	-	46,46,46,46	0
56	MG	AA	3029	1/1	0.18	-	53,53,53,53	0
56	MG	DA	3017	1/1	0.19	-	28,28,28,28	0
56	MG	CA	3024	1/1	0.12	-	63,63,63,63	0
56	MG	BA	3342	1/1	0.19	-	51,51,51,51	0
56	MG	BA	3265	1/1	0.23	-	29,29,29,29	0
56	MG	DA	3034	1/1	0.14	-	43,43,43,43	0
56	MG	DA	3579	1/1	0.08	-	55,55,55,55	0
56	MG	BA	3432	1/1	0.10	-	52,52,52,52	0
56	MG	BA	3267	1/1	0.09	-	37,37,37,37	0
56	MG	DA	3417	1/1	0.21	-	33,33,33,33	0
56	MG	BA	3028	1/1	0.11	-	59,59,59,59	0
56	MG	BA	3013	1/1	0.22	-	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3369	1/1	0.10	-	61,61,61,61	0
56	MG	DA	3303	1/1	0.15	-	42,42,42,42	0
56	MG	AA	3166	1/1	0.10	-	65,65,65,65	0
56	MG	AX	3006	1/1	0.14	-	74,74,74,74	0
56	MG	DA	3367	1/1	0.10	-	51,51,51,51	0
56	MG	BA	3668	1/1	0.12	-	56,56,56,56	0
56	MG	BA	3100	1/1	0.14	-	45,45,45,45	0
56	MG	BA	3750	1/1	0.17	-	49,49,49,49	0
56	MG	BE	306	1/1	0.20	-	25,25,25,25	0
56	MG	DA	3659	1/1	0.30	-	67,67,67,67	0
56	MG	DA	3025	1/1	0.10	-	44,44,44,44	0
56	MG	BA	3137	1/1	0.14	-	45,45,45,45	0
56	MG	DA	3234	1/1	0.14	-	45,45,45,45	0
56	MG	DA	3365	1/1	0.27	-	57,57,57,57	0
56	MG	BA	3087	1/1	0.17	-	37,37,37,37	0
56	MG	DA	3558	1/1	0.20	-	34,34,34,34	0
56	MG	DA	3154	1/1	0.24	-	52,52,52,52	0
56	MG	DA	3532	1/1	0.06	-	57,57,57,57	0
56	MG	BA	3599	1/1	0.17	-	23,23,23,23	0
56	MG	DA	3469	1/1	0.09	-	54,54,54,54	0
56	MG	AA	3197	1/1	0.09	-	56,56,56,56	0
56	MG	BA	3427	1/1	0.21	-	32,32,32,32	0
56	MG	DA	3001	1/1	0.17	-	58,58,58,58	0
56	MG	BA	3572	1/1	0.24	-	63,63,63,63	0
59	ZN	B6	103	1/1	0.12	-	29,29,29,29	0
56	MG	BA	3721	1/1	0.12	-	47,47,47,47	0
56	MG	BA	3591	1/1	0.19	-	23,23,23,23	0
56	MG	DA	3482	1/1	0.12	-	50,50,50,50	0
56	MG	BA	3773	1/1	0.23	-	49,49,49,49	0
56	MG	AA	3159	1/1	0.08	-	59,59,59,59	0
56	MG	AW	3007	1/1	0.05	-	64,64,64,64	0
56	MG	DA	3147	1/1	0.07	-	44,44,44,44	0
56	MG	BA	3384	1/1	0.16	-	30,30,30,30	0
56	MG	BA	3150	1/1	0.10	-	48,48,48,48	0
56	MG	BA	3609	1/1	0.19	-	20,20,20,20	0
56	MG	AA	3119	1/1	0.10	-	58,58,58,58	0
56	MG	BA	3360	1/1	0.08	-	50,50,50,50	0
56	MG	DA	3346	1/1	0.10	-	35,35,35,35	0
56	MG	CA	3135	1/1	0.06	-	53,53,53,53	0
56	MG	BA	3757	1/1	0.14	-	25,25,25,25	0
56	MG	BA	3065	1/1	0.10	-	37,37,37,37	0
56	MG	BA	3093	1/1	0.27	-	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
59	ZN	D5	501	1/1	0.15	-	53,53,53,53	0
56	MG	BA	3465	1/1	0.11	-	42,42,42,42	0
56	MG	DA	3182	1/1	0.36	-	64,64,64,64	0
56	MG	DA	3323	1/1	0.27	-	53,53,53,53	0
56	MG	BA	3730	1/1	0.08	-	27,27,27,27	0
56	MG	BF	306	1/1	0.26	-	40,40,40,40	0
56	MG	BR	204	1/1	0.25	-	42,42,42,42	0
56	MG	BA	3561	1/1	0.11	-	27,27,27,27	0
56	MG	BA	3575	1/1	0.06	-	64,64,64,64	0
56	MG	CA	3113	1/1	0.08	-	55,55,55,55	0
56	MG	CA	3086	1/1	0.07	-	61,61,61,61	0
56	MG	AA	3085	1/1	0.14	-	55,55,55,55	0
56	MG	BA	3577	1/1	0.14	-	60,60,60,60	0
56	MG	DA	3130	1/1	0.16	-	47,47,47,47	0
56	MG	BA	3224	1/1	0.12	-	64,64,64,64	0
56	MG	DA	3216	1/1	0.17	-	46,46,46,46	0
56	MG	DA	3427	1/1	0.06	-	38,38,38,38	0
56	MG	CA	3169	1/1	0.18	-	65,65,65,65	0
56	MG	BA	3425	1/1	0.23	-	29,29,29,29	0
56	MG	AA	3021	1/1	0.14	-	45,45,45,45	0
56	MG	AA	3084	1/1	0.12	-	49,49,49,49	0
56	MG	AA	3138	1/1	0.16	-	34,34,34,34	0
56	MG	DA	3101	1/1	0.10	-	53,53,53,53	0
56	MG	AA	3177	1/1	0.11	-	57,57,57,57	0
56	MG	BA	3208	1/1	0.15	-	48,48,48,48	0
56	MG	BA	3324	1/1	0.15	-	34,34,34,34	0
56	MG	AM	201	1/1	0.03	-	50,50,50,50	0
56	MG	DA	3468	1/1	0.18	-	44,44,44,44	0
56	MG	DA	3432	1/1	0.12	-	56,56,56,56	0
56	MG	BA	3281	1/1	0.10	-	49,49,49,49	0
56	MG	B2	3001	1/1	0.11	-	45,45,45,45	0
56	MG	BB	3003	1/1	0.15	-	40,40,40,40	0
56	MG	BA	3124	1/1	0.14	-	38,38,38,38	0
56	MG	BA	3457	1/1	0.17	-	44,44,44,44	0
56	MG	DA	3011	1/1	0.06	-	40,40,40,40	0
56	MG	B3	103	1/1	0.05	-	45,45,45,45	0
56	MG	BA	3016	1/1	0.16	-	44,44,44,44	0
56	MG	BA	3795	1/1	0.08	-	53,53,53,53	0
56	MG	AA	3016	1/1	0.12	-	46,46,46,46	0
56	MG	DA	3645	1/1	0.16	-	44,44,44,44	0
56	MG	BA	3364	1/1	0.10	-	42,42,42,42	0
56	MG	BA	3406	1/1	0.20	-	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3197	1/1	0.12	-	48,48,48,48	0
56	MG	BA	3736	1/1	0.15	-	56,56,56,56	0
56	MG	DA	3061	1/1	0.14	-	56,56,56,56	0
56	MG	DA	3241	1/1	0.19	-	50,50,50,50	0
56	MG	DA	3201	1/1	0.23	-	52,52,52,52	0
56	MG	BA	3682	1/1	0.12	-	50,50,50,50	0
56	MG	BA	3716	1/1	0.20	-	54,54,54,54	0
56	MG	BU	201	1/1	0.15	-	39,39,39,39	0
56	MG	DA	3172	1/1	0.19	-	51,51,51,51	0
56	MG	DA	3233	1/1	0.15	-	43,43,43,43	0
56	MG	AA	3101	1/1	0.10	-	54,54,54,54	0
56	MG	BA	3483	1/1	0.20	-	38,38,38,38	0
56	MG	DA	3573	1/1	0.19	-	46,46,46,46	0
56	MG	DA	3024	1/1	0.45	-	40,40,40,40	0
56	MG	DA	3398	1/1	0.15	-	57,57,57,57	0
56	MG	BA	3254	1/1	0.10	-	30,30,30,30	0
56	MG	DA	3561	1/1	0.16	-	48,48,48,48	0
56	MG	BG	202	1/1	0.05	-	46,46,46,46	0
56	MG	BA	3226	1/1	0.15	-	41,41,41,41	0
56	MG	BA	3644	1/1	0.07	-	36,36,36,36	0
56	MG	B3	101	1/1	0.22	-	48,48,48,48	0
56	MG	DA	3540	1/1	0.18	-	67,67,67,67	0
56	MG	CA	3089	1/1	0.05	-	58,58,58,58	0
56	MG	BA	3203	1/1	0.12	-	39,39,39,39	0
56	MG	BA	3146	1/1	0.11	-	42,42,42,42	0
56	MG	BA	3378	1/1	0.06	-	34,34,34,34	0
56	MG	BA	3631	1/1	0.10	-	43,43,43,43	0
56	MG	BA	3247	1/1	0.22	-	28,28,28,28	0
56	MG	BA	3189	1/1	0.12	-	30,30,30,30	0
59	ZN	BY	501	1/1	0.11	-	58,58,58,58	0
56	MG	BA	3344	1/1	0.11	-	37,37,37,37	0
56	MG	BA	3323	1/1	0.17	-	39,39,39,39	0
56	MG	DA	3562	1/1	0.24	-	58,58,58,58	0
59	ZN	DY	501	1/1	0.09	-	106,106,106,106	0
56	MG	DA	3185	1/1	0.18	-	54,54,54,54	0
56	MG	DA	3490	1/1	0.13	-	39,39,39,39	0
56	MG	BA	3688	1/1	0.10	-	45,45,45,45	0
56	MG	DA	3585	1/1	0.08	-	51,51,51,51	0
56	MG	DA	3373	1/1	0.07	-	31,31,31,31	0
58	SF4	AD	501	8/8	0.17	-	56,62,64,76	0
56	MG	BA	3585	1/1	0.36	-	55,55,55,55	0
56	MG	BA	3238	1/1	0.19	-	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3487	1/1	0.14	-	65,65,65,65	0
56	MG	DA	3622	1/1	0.10	-	53,53,53,53	0
56	MG	BA	3492	1/1	0.10	-	55,55,55,55	0
56	MG	DA	3035	1/1	0.18	-	38,38,38,38	0
56	MG	AA	3055	1/1	0.15	-	58,58,58,58	0
56	MG	CA	3016	1/1	0.08	-	61,61,61,61	0
56	MG	BA	3469	1/1	0.27	-	37,37,37,37	0
56	MG	BA	3539	1/1	0.16	-	23,23,23,23	0
56	MG	DA	3258	1/1	0.15	-	59,59,59,59	0
56	MG	BG	201	1/1	0.08	-	57,57,57,57	0
56	MG	BA	3068	1/1	0.15	-	51,51,51,51	0
56	MG	DA	3392	1/1	0.14	-	36,36,36,36	0
56	MG	B0	102	1/1	0.12	-	68,68,68,68	0
56	MG	DB	3011	1/1	0.09	-	52,52,52,52	0
56	MG	BA	3563	1/1	0.09	-	60,60,60,60	0
56	MG	BA	3410	1/1	0.07	-	46,46,46,46	0
56	MG	BA	3603	1/1	0.09	-	54,54,54,54	0
56	MG	BA	3666	1/1	0.08	-	58,58,58,58	0
56	MG	BA	3496	1/1	0.17	-	39,39,39,39	0
56	MG	AA	3191	1/1	0.14	-	48,48,48,48	0
56	MG	AA	3220	1/1	0.08	-	64,64,64,64	0
56	MG	D3	3001	1/1	0.11	-	58,58,58,58	0
56	MG	CA	3116	1/1	0.05	-	55,55,55,55	0
56	MG	BA	3060	1/1	0.16	-	56,56,56,56	0
56	MG	CA	3046	1/1	0.09	-	56,56,56,56	0
56	MG	BW	203	1/1	0.25	-	34,34,34,34	0
56	MG	DA	3059	1/1	0.29	-	53,53,53,53	0
56	MG	BA	3701	1/1	0.13	-	51,51,51,51	0
56	MG	BA	3508	1/1	0.09	-	54,54,54,54	0
56	MG	DA	3654	1/1	0.04	-	55,55,55,55	0
56	MG	BA	3221	1/1	0.17	-	54,54,54,54	0
56	MG	AA	3113	1/1	0.16	-	59,59,59,59	0
56	MG	BA	3239	1/1	0.11	-	31,31,31,31	0
56	MG	DA	3103	1/1	0.17	-	50,50,50,50	0
56	MG	AA	3059	1/1	0.20	-	59,59,59,59	0
56	MG	CA	3013	1/1	0.08	-	63,63,63,63	0
56	MG	BA	3486	1/1	0.20	-	48,48,48,48	0
56	MG	DA	3338	1/1	0.15	-	40,40,40,40	0
56	MG	BA	3029	1/1	0.25	-	46,46,46,46	0
56	MG	DA	3136	1/1	0.28	-	44,44,44,44	0
56	MG	DA	3590	1/1	0.15	-	60,60,60,60	0
56	MG	CA	3051	1/1	0.10	-	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3529	1/1	0.14	-	33,33,33,33	0
56	MG	DA	3344	1/1	0.11	-	44,44,44,44	0
56	MG	DA	3341	1/1	0.17	-	31,31,31,31	0
56	MG	AA	3053	1/1	0.31	-	49,49,49,49	0
56	MG	DA	3235	1/1	0.18	-	61,61,61,61	0
56	MG	DA	3361	1/1	0.29	-	55,55,55,55	0
56	MG	CA	3114	1/1	0.12	-	56,56,56,56	0
56	MG	DA	3161	1/1	0.18	-	49,49,49,49	0
56	MG	BA	3670	1/1	0.15	-	47,47,47,47	0
56	MG	CA	3065	1/1	0.05	-	65,65,65,65	0
56	MG	BA	3309	1/1	0.15	-	55,55,55,55	0
56	MG	AA	3210	1/1	0.12	-	69,69,69,69	0
56	MG	DA	3395	1/1	0.17	-	42,42,42,42	0
56	MG	BA	3091	1/1	0.28	-	38,38,38,38	0
56	MG	BB	3021	1/1	0.08	-	54,54,54,54	0
56	MG	BA	3036	1/1	0.19	-	26,26,26,26	0
56	MG	DA	3630	1/1	0.12	-	49,49,49,49	0
56	MG	DA	3511	1/1	0.12	-	45,45,45,45	0
56	MG	BA	3837	1/1	0.14	-	40,40,40,40	0
56	MG	BA	3828	1/1	0.15	-	37,37,37,37	0
56	MG	DA	3618	1/1	0.14	-	54,54,54,54	0
56	MG	CA	3092	1/1	0.14	-	44,44,44,44	0
56	MG	BA	3388	1/1	0.10	-	52,52,52,52	0
56	MG	BA	3006	1/1	0.12	-	52,52,52,52	0
56	MG	DA	3037	1/1	0.14	-	54,54,54,54	0
56	MG	DA	3148	1/1	0.20	-	29,29,29,29	0
56	MG	AA	3062	1/1	0.14	-	60,60,60,60	0
56	MG	DA	3316	1/1	0.04	-	44,44,44,44	0
56	MG	CA	3008	1/1	0.09	-	50,50,50,50	0
56	MG	CA	3133	1/1	0.21	-	65,65,65,65	0
56	MG	BA	3638	1/1	0.21	-	38,38,38,38	0
56	MG	BA	3510	1/1	0.09	-	48,48,48,48	0
56	MG	BA	3314	1/1	0.10	-	47,47,47,47	0
56	MG	BF	311	1/1	0.18	-	43,43,43,43	0
56	MG	AA	3153	1/1	0.17	-	55,55,55,55	0
56	MG	AA	3110	1/1	0.19	-	61,61,61,61	0
56	MG	DA	3461	1/1	0.14	-	56,56,56,56	0
56	MG	AA	3001	1/1	0.14	-	34,34,34,34	0
56	MG	BD	301	1/1	0.09	-	49,49,49,49	0
56	MG	AA	3158	1/1	0.24	-	59,59,59,59	0
56	MG	BA	3223	1/1	0.10	-	29,29,29,29	0
56	MG	BA	3705	1/1	0.16	-	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3009	1/1	0.11	-	38,38,38,38	0
56	MG	AE	3001	1/1	0.06	-	66,66,66,66	0
56	MG	CA	3037	1/1	0.19	-	55,55,55,55	0
56	MG	AA	3096	1/1	0.26	-	48,48,48,48	0
56	MG	CA	3125	1/1	0.12	-	64,64,64,64	0
56	MG	AY	3001	1/1	0.29	-	70,70,70,70	0
56	MG	BB	3017	1/1	0.15	-	33,33,33,33	0
56	MG	DA	3304	1/1	0.10	-	40,40,40,40	0
56	MG	DE	304	1/1	0.17	-	47,47,47,47	0
56	MG	BW	202	1/1	0.18	-	49,49,49,49	0
56	MG	DA	3238	1/1	0.17	-	61,61,61,61	0
56	MG	CA	3066	1/1	0.10	-	66,66,66,66	0
56	MG	DB	3007	1/1	0.08	-	59,59,59,59	0
56	MG	DA	3393	1/1	0.10	-	52,52,52,52	0
56	MG	BA	3273	1/1	0.15	-	53,53,53,53	0
56	MG	CY	3001	1/1	0.21	-	58,58,58,58	0
56	MG	DA	3138	1/1	0.34	-	59,59,59,59	0
56	MG	AA	3215	1/1	0.14	-	57,57,57,57	0
56	MG	BA	3793	1/1	0.12	-	38,38,38,38	0
56	MG	BA	3275	1/1	0.11	-	46,46,46,46	0
56	MG	DA	3544	1/1	0.12	-	37,37,37,37	0
56	MG	CA	3045	1/1	0.25	-	58,58,58,58	0
56	MG	BA	3728	1/1	0.08	-	72,72,72,72	0
56	MG	BW	201	1/1	0.14	-	46,46,46,46	0
56	MG	BA	3642	1/1	0.09	-	37,37,37,37	0
56	MG	CA	3019	1/1	0.24	-	58,58,58,58	0
56	MG	AA	3033	1/1	0.13	-	57,57,57,57	0
56	MG	AA	3054	1/1	0.31	-	52,52,52,52	0
56	MG	DA	3578	1/1	0.08	-	55,55,55,55	0
56	MG	BA	3179	1/1	0.15	-	39,39,39,39	0
56	MG	DA	3525	1/1	0.10	-	41,41,41,41	0
56	MG	BV	205	1/1	0.09	-	32,32,32,32	0
56	MG	AA	3200	1/1	0.19	-	45,45,45,45	0
56	MG	DA	3596	1/1	0.29	-	63,63,63,63	0
56	MG	BA	3067	1/1	0.20	-	49,49,49,49	0
56	MG	CA	3146	1/1	0.04	-	69,69,69,69	0
56	MG	DA	3023	1/1	0.11	-	30,30,30,30	0
56	MG	DA	3342	1/1	0.07	-	56,56,56,56	0
56	MG	CA	3070	1/1	0.11	-	71,71,71,71	0
56	MG	DA	3520	1/1	0.10	-	48,48,48,48	0
56	MG	CA	3047	1/1	0.18	-	35,35,35,35	0
56	MG	DA	3329	1/1	0.19	-	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3442	1/1	0.21	-	44,44,44,44	0
56	MG	BA	3390	1/1	0.15	-	52,52,52,52	0
56	MG	DA	3178	1/1	0.16	-	54,54,54,54	0
56	MG	BA	3549	1/1	0.17	-	37,37,37,37	0
56	MG	BA	3742	1/1	0.16	-	51,51,51,51	0
56	MG	DA	3205	1/1	0.16	-	47,47,47,47	0
56	MG	BA	3325	1/1	0.23	-	56,56,56,56	0
56	MG	DA	3528	1/1	0.12	-	57,57,57,57	0
56	MG	DA	3657	1/1	0.09	-	67,67,67,67	0
56	MG	BA	3429	1/1	0.20	-	47,47,47,47	0
56	MG	BA	3078	1/1	0.15	-	17,17,17,17	0
56	MG	BA	3279	1/1	0.14	-	43,43,43,43	0
56	MG	DA	3032	1/1	0.12	-	40,40,40,40	0
56	MG	DA	3505	1/1	0.11	-	66,66,66,66	0
56	MG	AA	3141	1/1	0.09	-	55,55,55,55	0
56	MG	BA	3747	1/1	0.20	-	42,42,42,42	0
56	MG	BA	3430	1/1	0.28	-	32,32,32,32	0
56	MG	BA	3821	1/1	0.15	-	50,50,50,50	0
56	MG	BA	3817	1/1	0.12	-	47,47,47,47	0
56	MG	BA	3259	1/1	0.27	-	52,52,52,52	0
56	MG	AA	3121	1/1	0.11	-	66,66,66,66	0
56	MG	CA	3115	1/1	0.12	-	62,62,62,62	0
56	MG	BA	3501	1/1	0.17	-	20,20,20,20	0
56	MG	BA	3075	1/1	0.12	-	27,27,27,27	0
56	MG	DA	3457	1/1	0.13	-	47,47,47,47	0
56	MG	DA	3588	1/1	0.12	-	39,39,39,39	0
56	MG	DA	3510	1/1	0.16	-	50,50,50,50	0
56	MG	AA	3201	1/1	0.08	-	59,59,59,59	0
56	MG	AA	3193	1/1	0.06	-	43,43,43,43	0
59	ZN	B9	501	1/1	0.16	-	49,49,49,49	0
56	MG	DA	3038	1/1	0.28	-	47,47,47,47	0
56	MG	CA	3127	1/1	0.14	-	44,44,44,44	0
56	MG	CA	3085	1/1	0.16	-	71,71,71,71	0
56	MG	DA	3635	1/1	0.10	-	52,52,52,52	0
56	MG	DA	3354	1/1	0.30	-	46,46,46,46	0
56	MG	CA	3106	1/1	0.14	-	50,50,50,50	0
56	MG	CA	3145	1/1	0.10	-	63,63,63,63	0
56	MG	BA	3485	1/1	0.18	-	46,46,46,46	0
56	MG	DA	3671	1/1	0.17	-	59,59,59,59	0
56	MG	DA	3266	1/1	0.07	-	47,47,47,47	0
56	MG	DA	3174	1/1	0.15	-	48,48,48,48	0
56	MG	BR	203	1/1	0.18	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3515	1/1	0.15	-	20,20,20,20	0
56	MG	DA	3508	1/1	0.14	-	59,59,59,59	0
56	MG	BB	3008	1/1	0.21	-	54,54,54,54	0
56	MG	CA	3162	1/1	0.13	-	67,67,67,67	0
56	MG	DA	3559	1/1	0.16	-	48,48,48,48	0
56	MG	AK	201	1/1	0.11	-	61,61,61,61	0
56	MG	BA	3392	1/1	0.16	-	46,46,46,46	0
56	MG	DA	3667	1/1	0.91	-	73,73,73,73	0
56	MG	CX	3002	1/1	0.12	-	81,81,81,81	0
56	MG	CA	3174	1/1	0.21	-	46,46,46,46	0
56	MG	BA	3673	1/1	0.14	-	47,47,47,47	0
56	MG	BA	3740	1/1	0.16	-	51,51,51,51	0
56	MG	BA	3210	1/1	0.17	-	31,31,31,31	0
56	MG	BP	201	1/1	0.46	-	41,41,41,41	0
56	MG	BA	3135	1/1	0.20	-	35,35,35,35	0
56	MG	BA	3045	1/1	0.16	-	42,42,42,42	0
56	MG	AA	3183	1/1	0.13	-	71,71,71,71	0
56	MG	BA	3764	1/1	0.10	-	58,58,58,58	0
56	MG	BA	3761	1/1	0.15	-	54,54,54,54	0
56	MG	CA	3118	1/1	0.13	-	47,47,47,47	0
56	MG	BA	3749	1/1	0.20	-	45,45,45,45	0
56	MG	BA	3517	1/1	0.10	-	51,51,51,51	0
56	MG	BA	3377	1/1	0.17	-	30,30,30,30	0
56	MG	DA	3434	1/1	0.32	-	51,51,51,51	0
56	MG	BE	307	1/1	0.13	-	70,70,70,70	0
56	MG	BD	305	1/1	0.10	-	37,37,37,37	0
56	MG	BA	3147	1/1	0.10	-	30,30,30,30	0
56	MG	CA	3160	1/1	0.10	-	65,65,65,65	0
56	MG	BA	3803	1/1	0.07	-	47,47,47,47	0
56	MG	DA	3502	1/1	0.19	-	64,64,64,64	0
56	MG	BA	3812	1/1	0.15	-	52,52,52,52	0
56	MG	DA	3617	1/1	0.20	-	53,53,53,53	0
56	MG	AA	3217	1/1	0.16	-	55,55,55,55	0
56	MG	DA	3560	1/1	0.13	-	34,34,34,34	0
56	MG	DA	3415	1/1	0.20	-	50,50,50,50	0
56	MG	AA	3171	1/1	0.08	-	48,48,48,48	0
56	MG	DA	3371	1/1	0.14	-	55,55,55,55	0
56	MG	BQ	3004	1/1	0.17	-	35,35,35,35	0
56	MG	DA	3200	1/1	0.38	-	43,43,43,43	0
56	MG	CA	3107	1/1	0.05	-	66,66,66,66	0
56	MG	DA	3445	1/1	0.13	-	72,72,72,72	0
56	MG	DA	3120	1/1	0.12	-	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3257	1/1	0.17	-	34,34,34,34	0
56	MG	AA	3132	1/1	0.09	-	22,22,22,22	0
56	MG	BA	3007	1/1	0.28	-	51,51,51,51	0
56	MG	BA	3355	1/1	0.11	-	24,24,24,24	0
56	MG	BA	3733	1/1	0.20	-	41,41,41,41	0
56	MG	DA	3150	1/1	0.05	-	41,41,41,41	0
56	MG	BA	3306	1/1	0.20	-	31,31,31,31	0
56	MG	BB	3015	1/1	0.08	-	51,51,51,51	0
56	MG	DB	3009	1/1	0.14	-	47,47,47,47	0
56	MG	DA	3399	1/1	0.12	-	47,47,47,47	0
56	MG	BA	3497	1/1	0.17	-	41,41,41,41	0
56	MG	DA	3121	1/1	0.16	-	41,41,41,41	0
56	MG	BA	3684	1/1	0.19	-	49,49,49,49	0
56	MG	BA	3412	1/1	0.20	-	41,41,41,41	0
56	MG	BA	3079	1/1	0.25	-	57,57,57,57	0
56	MG	DA	3449	1/1	0.17	-	47,47,47,47	0
56	MG	BA	3115	1/1	0.10	-	67,67,67,67	0
56	MG	BA	3229	1/1	0.21	-	51,51,51,51	0
56	MG	AA	3164	1/1	0.20	-	50,50,50,50	0
56	MG	AA	3090	1/1	0.29	-	53,53,53,53	0
56	MG	BA	3201	1/1	0.12	-	40,40,40,40	0
56	MG	CA	3098	1/1	0.18	-	43,43,43,43	0
56	MG	BA	3559	1/1	0.17	-	30,30,30,30	0
56	MG	BN	3001	1/1	0.34	-	51,51,51,51	0
56	MG	DA	3503	1/1	0.11	-	37,37,37,37	0
56	MG	BA	3782	1/1	0.10	-	51,51,51,51	0
56	MG	BA	3504	1/1	0.16	-	58,58,58,58	0
56	MG	BA	3547	1/1	0.16	-	41,41,41,41	0
56	MG	BA	3103	1/1	0.11	-	48,48,48,48	0
56	MG	BA	3576	1/1	0.20	-	48,48,48,48	0
56	MG	DA	3183	1/1	0.18	-	58,58,58,58	0
56	MG	DA	3423	1/1	0.11	-	51,51,51,51	0
56	MG	DA	3146	1/1	0.19	-	46,46,46,46	0
56	MG	DA	3646	1/1	0.08	-	49,49,49,49	0
56	MG	DA	3533	1/1	0.22	-	53,53,53,53	0
56	MG	BA	3658	1/1	0.15	-	45,45,45,45	0
56	MG	DV	3002	1/1	0.57	-	57,57,57,57	0
56	MG	DA	3668	1/1	0.13	-	79,79,79,79	0
56	MG	DA	3276	1/1	0.04	-	33,33,33,33	0
56	MG	DA	3300	1/1	0.21	-	60,60,60,60	0
56	MG	DA	3284	1/1	0.17	-	40,40,40,40	0
56	MG	AA	3172	1/1	0.15	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3482	1/1	0.16	-	59,59,59,59	0
56	MG	BA	3230	1/1	0.20	-	62,62,62,62	0
56	MG	CA	3105	1/1	0.10	-	49,49,49,49	0
56	MG	AA	3184	1/1	0.10	-	55,55,55,55	0
56	MG	BA	3518	1/1	0.15	-	43,43,43,43	0
56	MG	BA	3034	1/1	0.15	-	28,28,28,28	0
56	MG	DA	3104	1/1	0.10	-	46,46,46,46	0
56	MG	BA	3776	1/1	0.14	-	49,49,49,49	0
56	MG	AA	3045	1/1	0.26	-	59,59,59,59	0
56	MG	BA	3270	1/1	0.16	-	57,57,57,57	0
56	MG	AA	3080	1/1	0.11	-	47,47,47,47	0
56	MG	AA	3005	1/1	0.05	-	53,53,53,53	0
56	MG	BA	3151	1/1	0.17	-	42,42,42,42	0
56	MG	DA	3334	1/1	0.16	-	32,32,32,32	0
56	MG	DA	3496	1/1	0.09	-	48,48,48,48	0
56	MG	BA	3175	1/1	0.15	-	35,35,35,35	0
56	MG	BA	3436	1/1	0.20	-	46,46,46,46	0
56	MG	BA	3415	1/1	0.18	-	29,29,29,29	0
56	MG	BQ	3001	1/1	0.26	-	40,40,40,40	0
56	MG	BA	3589	1/1	0.15	-	17,17,17,17	0
56	MG	BA	3313	1/1	0.13	-	46,46,46,46	0
56	MG	BA	3363	1/1	0.18	-	50,50,50,50	0
56	MG	CA	3076	1/1	0.15	-	56,56,56,56	0
56	MG	BF	305	1/1	0.25	-	47,47,47,47	0
56	MG	DA	3003	1/1	0.20	-	20,20,20,20	0
56	MG	CA	3025	1/1	0.11	-	61,61,61,61	0
56	MG	BA	3593	1/1	0.15	-	42,42,42,42	0
56	MG	DA	3242	1/1	0.06	-	43,43,43,43	0
56	MG	BA	3729	1/1	0.10	-	52,52,52,52	0
56	MG	CA	3094	1/1	0.15	-	72,72,72,72	0
56	MG	BB	3007	1/1	0.06	-	36,36,36,36	0
56	MG	AA	3102	1/1	0.24	-	51,51,51,51	0
56	MG	BA	3228	1/1	0.15	-	50,50,50,50	0
56	MG	DA	3570	1/1	0.06	-	49,49,49,49	0
56	MG	BA	3346	1/1	0.11	-	32,32,32,32	0
56	MG	BA	3296	1/1	0.16	-	31,31,31,31	0
56	MG	AA	3218	1/1	0.23	-	53,53,53,53	0
56	MG	DA	3168	1/1	0.32	-	53,53,53,53	0
56	MG	BA	3085	1/1	0.09	-	31,31,31,31	0
56	MG	DA	3610	1/1	0.22	-	48,48,48,48	0
56	MG	DA	3325	1/1	0.20	-	57,57,57,57	0
56	MG	AA	3189	1/1	0.17	-	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3331	1/1	0.15	-	32,32,32,32	0
56	MG	DA	3666	1/1	0.32	-	41,41,41,41	0
56	MG	CA	3072	1/1	0.11	-	62,62,62,62	0
56	MG	BA	3552	1/1	0.20	-	34,34,34,34	0
56	MG	BA	3753	1/1	0.26	-	44,44,44,44	0
56	MG	DA	3420	1/1	0.17	-	46,46,46,46	0
56	MG	BA	3612	1/1	0.07	-	62,62,62,62	0
56	MG	DF	302	1/1	0.12	-	43,43,43,43	0
56	MG	BA	3133	1/1	0.34	-	47,47,47,47	0
56	MG	BA	3570	1/1	0.30	-	30,30,30,30	0
56	MG	CA	3075	1/1	0.11	-	44,44,44,44	0
56	MG	DA	3531	1/1	0.23	-	54,54,54,54	0
56	MG	BA	3472	1/1	0.20	-	70,70,70,70	0
56	MG	BA	3401	1/1	0.13	-	48,48,48,48	0
56	MG	BV	202	1/1	0.10	-	26,26,26,26	0
56	MG	CA	3056	1/1	0.18	-	60,60,60,60	0
56	MG	DA	3436	1/1	0.15	-	54,54,54,54	0
56	MG	BA	3297	1/1	0.45	-	55,55,55,55	0
56	MG	BA	3484	1/1	0.27	-	36,36,36,36	0
56	MG	BA	3554	1/1	0.18	-	37,37,37,37	0
56	MG	BA	3097	1/1	0.13	-	52,52,52,52	0
56	MG	CA	3138	1/1	0.12	-	59,59,59,59	0
56	MG	BA	3303	1/1	0.22	-	35,35,35,35	0
56	MG	DA	3463	1/1	0.15	-	37,37,37,37	0
56	MG	BA	3568	1/1	0.22	-	52,52,52,52	0
56	MG	BA	3783	1/1	0.14	-	53,53,53,53	0
56	MG	BA	3565	1/1	0.20	-	42,42,42,42	0
56	MG	DA	3294	1/1	0.11	-	42,42,42,42	0
56	MG	BA	3574	1/1	0.10	-	63,63,63,63	0
56	MG	CA	3167	1/1	0.13	-	48,48,48,48	0
56	MG	DA	3641	1/1	0.06	-	44,44,44,44	0
56	MG	CA	3132	1/1	0.21	-	70,70,70,70	0
56	MG	BA	3643	1/1	0.15	-	30,30,30,30	0
56	MG	AK	202	1/1	0.23	-	38,38,38,38	0
56	MG	DA	3240	1/1	0.13	-	51,51,51,51	0
56	MG	BA	3172	1/1	0.15	-	45,45,45,45	0
56	MG	CA	3015	1/1	0.08	-	58,58,58,58	0
56	MG	CA	3012	1/1	0.14	-	68,68,68,68	0
56	MG	BQ	3003	1/1	0.14	-	54,54,54,54	0
56	MG	BA	3771	1/1	0.17	-	41,41,41,41	0
56	MG	AA	3120	1/1	0.17	-	59,59,59,59	0
56	MG	BD	309	1/1	0.23	-	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	3173	1/1	0.09	-	47,47,47,47	0
56	MG	BA	3588	1/1	0.15	-	47,47,47,47	0
56	MG	BA	3404	1/1	0.18	-	36,36,36,36	0
56	MG	DA	3312	1/1	0.11	-	52,52,52,52	0
56	MG	DA	3491	1/1	0.12	-	45,45,45,45	0
56	MG	BA	3819	1/1	0.20	-	32,32,32,32	0
56	MG	BA	3330	1/1	0.11	-	29,29,29,29	0
56	MG	BA	3672	1/1	0.15	-	61,61,61,61	0
56	MG	BA	3094	1/1	0.17	-	43,43,43,43	0
56	MG	BA	3012	1/1	0.17	-	26,26,26,26	0
56	MG	BA	3656	1/1	0.13	-	45,45,45,45	0
56	MG	CA	3023	1/1	0.18	-	55,55,55,55	0
56	MG	BA	3651	1/1	0.12	-	56,56,56,56	0
56	MG	BA	3725	1/1	0.21	-	67,67,67,67	0
56	MG	CA	3177	1/1	0.13	-	62,62,62,62	0
56	MG	BA	3788	1/1	0.11	-	41,41,41,41	0
56	MG	DA	3260	1/1	0.12	-	41,41,41,41	0
56	MG	BA	3760	1/1	0.20	-	68,68,68,68	0
56	MG	BA	3118	1/1	0.20	-	38,38,38,38	0
56	MG	BA	3722	1/1	0.07	-	50,50,50,50	0
56	MG	BB	3012	1/1	0.08	-	59,59,59,59	0
56	MG	DA	3541	1/1	0.06	-	54,54,54,54	0
56	MG	BA	3379	1/1	0.10	-	45,45,45,45	0
56	MG	BA	3320	1/1	0.28	-	60,60,60,60	0
56	MG	BA	3249	1/1	0.26	-	74,74,74,74	0
56	MG	CA	3017	1/1	0.10	-	49,49,49,49	0
56	MG	BA	3679	1/1	0.28	-	61,61,61,61	0
56	MG	CA	3161	1/1	0.11	-	70,70,70,70	0
56	MG	BA	3161	1/1	0.32	-	37,37,37,37	0
56	MG	BA	3758	1/1	0.13	-	34,34,34,34	0
56	MG	DA	3166	1/1	0.09	-	46,46,46,46	0
56	MG	BA	3639	1/1	0.29	-	59,59,59,59	0
56	MG	DA	3385	1/1	0.13	-	55,55,55,55	0
56	MG	BA	3122	1/1	0.17	-	26,26,26,26	0
56	MG	AA	3105	1/1	0.12	-	49,49,49,49	0
56	MG	BA	3321	1/1	0.07	-	54,54,54,54	0
56	MG	BA	3132	1/1	0.15	-	42,42,42,42	0
56	MG	CA	3053	1/1	0.06	-	74,74,74,74	0
56	MG	BA	3627	1/1	0.11	-	45,45,45,45	0
56	MG	BA	3120	1/1	0.16	-	32,32,32,32	0
56	MG	BA	3475	1/1	0.13	-	53,53,53,53	0
56	MG	AA	3107	1/1	0.19	-	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BQ	3005	1/1	0.28	-	50,50,50,50	0
56	MG	DA	3485	1/1	0.10	-	44,44,44,44	0
56	MG	BA	3526	1/1	0.07	-	32,32,32,32	0
56	MG	BA	3348	1/1	0.13	-	54,54,54,54	0
56	MG	DA	3229	1/1	0.19	-	55,55,55,55	0
56	MG	BA	3507	1/1	0.06	-	39,39,39,39	0
56	MG	DA	3571	1/1	0.11	-	57,57,57,57	0
56	MG	BA	3420	1/1	0.18	-	22,22,22,22	0
56	MG	BA	3681	1/1	0.17	-	53,53,53,53	0
56	MG	DA	3534	1/1	0.26	-	74,74,74,74	0
56	MG	BA	3466	1/1	0.13	-	28,28,28,28	0
56	MG	BN	3004	1/1	0.38	-	50,50,50,50	0
56	MG	DA	3527	1/1	0.09	-	53,53,53,53	0
56	MG	BA	3200	1/1	0.19	-	56,56,56,56	0
56	MG	DA	3212	1/1	0.22	-	44,44,44,44	0
56	MG	BA	3413	1/1	0.17	-	41,41,41,41	0
56	MG	DA	3563	1/1	0.14	-	42,42,42,42	0
56	MG	DA	3132	1/1	0.36	-	41,41,41,41	0
56	MG	BA	3720	1/1	0.20	-	46,46,46,46	0
56	MG	BA	3675	1/1	0.15	-	37,37,37,37	0
56	MG	DA	3245	1/1	0.06	-	62,62,62,62	0
56	MG	DA	3044	1/1	0.07	-	58,58,58,58	0
56	MG	BA	3697	1/1	0.07	-	35,35,35,35	0
56	MG	BA	3053	1/1	0.19	-	22,22,22,22	0
56	MG	DE	303	1/1	0.09	-	44,44,44,44	0
56	MG	AA	3079	1/1	0.14	-	47,47,47,47	0
56	MG	BA	3322	1/1	0.15	-	32,32,32,32	0
56	MG	BA	3160	1/1	0.13	-	32,32,32,32	0
56	MG	BF	304	1/1	0.14	-	32,32,32,32	0
56	MG	BA	3523	1/1	0.11	-	64,64,64,64	0
56	MG	DA	3259	1/1	0.11	-	34,34,34,34	0
56	MG	BD	308	1/1	0.20	-	39,39,39,39	0
56	MG	DA	3091	1/1	0.12	-	43,43,43,43	0
56	MG	BA	3073	1/1	0.11	-	41,41,41,41	0
56	MG	BA	3737	1/1	0.14	-	36,36,36,36	0
56	MG	BA	3191	1/1	0.24	-	40,40,40,40	0
56	MG	AA	3118	1/1	0.15	-	53,53,53,53	0
56	MG	AW	3001	1/1	0.08	-	55,55,55,55	0
56	MG	CA	3003	1/1	0.15	-	58,58,58,58	0
56	MG	DA	3360	1/1	0.09	-	51,51,51,51	0
56	MG	DB	3006	1/1	0.14	-	62,62,62,62	0
56	MG	BA	3408	1/1	0.14	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3566	1/1	0.17	-	48,48,48,48	0
56	MG	DA	3222	1/1	0.10	-	54,54,54,54	0
56	MG	BA	3010	1/1	0.09	-	29,29,29,29	0
56	MG	AA	3011	1/1	0.23	-	64,64,64,64	0
56	MG	AA	3020	1/1	0.10	-	59,59,59,59	0
56	MG	BA	3838	1/1	0.09	-	50,50,50,50	0
56	MG	AA	3097	1/1	0.09	-	50,50,50,50	0
56	MG	DA	3153	1/1	0.09	-	44,44,44,44	0
56	MG	DA	3125	1/1	0.18	-	45,45,45,45	0
56	MG	BA	3005	1/1	0.37	-	51,51,51,51	0
56	MG	BA	3205	1/1	0.20	-	41,41,41,41	0
56	MG	DA	3226	1/1	0.13	-	54,54,54,54	0
56	MG	CA	3093	1/1	0.16	-	34,34,34,34	0
56	MG	BA	3055	1/1	0.18	-	31,31,31,31	0
56	MG	AA	3044	1/1	0.23	-	71,71,71,71	0
56	MG	DA	3328	1/1	0.13	-	47,47,47,47	0
56	MG	DA	3349	1/1	0.09	-	44,44,44,44	0
56	MG	BA	3464	1/1	0.18	-	56,56,56,56	0
56	MG	DA	3184	1/1	0.19	-	49,49,49,49	0
56	MG	DA	3113	1/1	0.23	-	44,44,44,44	0
56	MG	BA	3433	1/1	0.13	-	57,57,57,57	0
56	MG	AA	3106	1/1	0.14	-	51,51,51,51	0
56	MG	DA	3210	1/1	0.17	-	44,44,44,44	0
56	MG	DA	3274	1/1	0.21	-	33,33,33,33	0
56	MG	BA	3035	1/1	0.14	-	31,31,31,31	0
56	MG	BA	3264	1/1	0.24	-	39,39,39,39	0
56	MG	AA	3182	1/1	0.15	-	52,52,52,52	0
56	MG	CA	3147	1/1	0.17	-	72,72,72,72	0
56	MG	BA	3032	1/1	0.13	-	38,38,38,38	0
56	MG	AA	3124	1/1	0.16	-	53,53,53,53	0
56	MG	DA	3192	1/1	0.11	-	51,51,51,51	0
56	MG	AA	3230	1/1	0.14	-	68,68,68,68	0
56	MG	DA	3219	1/1	0.15	-	54,54,54,54	0
56	MG	DF	303	1/1	0.07	-	46,46,46,46	0
56	MG	AA	3035	1/1	0.06	-	46,46,46,46	0
56	MG	BA	3271	1/1	0.08	-	26,26,26,26	0
56	MG	BA	3545	1/1	0.18	-	41,41,41,41	0
56	MG	DA	3332	1/1	0.14	-	41,41,41,41	0
56	MG	AA	3049	1/1	0.18	-	52,52,52,52	0
56	MG	BA	3357	1/1	0.15	-	46,46,46,46	0
56	MG	DA	3633	1/1	0.10	-	61,61,61,61	0
56	MG	DA	3431	1/1	0.15	-	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3179	1/1	0.07	-	46,46,46,46	0
56	MG	BA	3180	1/1	0.12	-	58,58,58,58	0
56	MG	BA	3119	1/1	0.16	-	36,36,36,36	0
56	MG	DA	3521	1/1	0.19	-	51,51,51,51	0
56	MG	AA	3111	1/1	0.14	-	52,52,52,52	0
56	MG	DA	3123	1/1	0.09	-	47,47,47,47	0
56	MG	BA	3727	1/1	0.13	-	39,39,39,39	0
56	MG	AA	3089	1/1	0.18	-	57,57,57,57	0
56	MG	DA	3067	1/1	0.13	-	49,49,49,49	0
56	MG	BA	3700	1/1	0.11	-	54,54,54,54	0
56	MG	DA	3247	1/1	0.29	-	57,57,57,57	0
56	MG	BA	3040	1/1	0.10	-	47,47,47,47	0
56	MG	BA	3382	1/1	0.14	-	55,55,55,55	0
56	MG	BA	3699	1/1	0.18	-	42,42,42,42	0
56	MG	DA	3484	1/1	0.04	-	45,45,45,45	0
56	MG	AA	3196	1/1	0.09	-	32,32,32,32	0
56	MG	BA	3626	1/1	0.11	-	49,49,49,49	0
56	MG	DA	3652	1/1	0.06	-	49,49,49,49	0
56	MG	DA	3158	1/1	0.23	-	40,40,40,40	0
56	MG	AX	3010	1/1	0.09	-	62,62,62,62	0
56	MG	B7	101	1/1	0.13	-	33,33,33,33	0
56	MG	DA	3262	1/1	0.09	-	43,43,43,43	0
56	MG	CA	3041	1/1	0.14	-	58,58,58,58	0
56	MG	DA	3124	1/1	0.11	-	34,34,34,34	0
56	MG	DA	3171	1/1	0.23	-	38,38,38,38	0
56	MG	BA	3767	1/1	0.12	-	29,29,29,29	0
56	MG	DA	3131	1/1	0.09	-	52,52,52,52	0
56	MG	BF	312	1/1	0.11	-	47,47,47,47	0
56	MG	BA	3327	1/1	0.22	-	25,25,25,25	0
56	MG	CV	3001	1/1	0.10	-	58,58,58,58	0
56	MG	AA	3226	1/1	0.19	-	58,58,58,58	0
56	MG	BA	3751	1/1	0.14	-	45,45,45,45	0
56	MG	AA	3094	1/1	0.23	-	44,44,44,44	0
56	MG	BD	311	1/1	0.19	-	51,51,51,51	0
56	MG	BA	3359	1/1	0.15	-	46,46,46,46	0
56	MG	AA	3095	1/1	0.21	-	68,68,68,68	0
56	MG	DA	3315	1/1	0.14	-	41,41,41,41	0
56	MG	AA	3008	1/1	0.14	-	54,54,54,54	0
56	MG	BA	3493	1/1	0.11	-	46,46,46,46	0
56	MG	DA	3031	1/1	0.26	-	51,51,51,51	0
56	MG	AA	3133	1/1	0.22	-	30,30,30,30	0
56	MG	DA	3189	1/1	0.17	-	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3076	1/1	0.17	-	23,23,23,23	0
56	MG	AA	3070	1/1	0.17	-	49,49,49,49	0
56	MG	BA	3731	1/1	0.07	-	23,23,23,23	0
56	MG	DA	3230	1/1	0.11	-	33,33,33,33	0
56	MG	BA	3162	1/1	0.26	-	46,46,46,46	0
56	MG	BA	3039	1/1	0.26	-	47,47,47,47	0
56	MG	DA	3548	1/1	0.11	-	65,65,65,65	0
56	MG	AA	3087	1/1	0.28	-	52,52,52,52	0
56	MG	AA	3050	1/1	0.10	-	70,70,70,70	0
56	MG	BA	3738	1/1	0.09	-	58,58,58,58	0
56	MG	BA	3822	1/1	0.17	-	21,21,21,21	0
56	MG	BA	3447	1/1	0.21	-	26,26,26,26	0
56	MG	DA	3252	1/1	0.16	-	29,29,29,29	0
56	MG	BA	3263	1/1	0.17	-	32,32,32,32	0
56	MG	AA	3069	1/1	0.12	-	67,67,67,67	0
56	MG	BA	3251	1/1	0.19	-	52,52,52,52	0
56	MG	CA	3077	1/1	0.05	-	48,48,48,48	0
56	MG	DA	3406	1/1	0.12	-	40,40,40,40	0
56	MG	D7	101	1/1	0.19	-	39,39,39,39	0
56	MG	CA	3068	1/1	0.32	-	55,55,55,55	0
56	MG	BA	3578	1/1	0.17	-	47,47,47,47	0
56	MG	DA	3565	1/1	0.16	-	70,70,70,70	0
56	MG	BA	3104	1/1	0.10	-	27,27,27,27	0
56	MG	BA	3062	1/1	0.16	-	57,57,57,57	0
56	MG	BA	3707	1/1	0.16	-	66,66,66,66	0
56	MG	CA	3005	1/1	0.14	-	58,58,58,58	0
56	MG	DA	3514	1/1	0.08	-	41,41,41,41	0
56	MG	CA	3048	1/1	0.23	-	52,52,52,52	0
56	MG	BA	3361	1/1	0.14	-	35,35,35,35	0
56	MG	AA	3104	1/1	0.19	-	50,50,50,50	0
56	MG	BA	3741	1/1	0.07	-	28,28,28,28	0
56	MG	BA	3096	1/1	0.17	-	41,41,41,41	0
56	MG	BA	3261	1/1	0.16	-	44,44,44,44	0
56	MG	B8	103	1/1	0.14	-	48,48,48,48	0
56	MG	BA	3584	1/1	0.18	-	27,27,27,27	0
56	MG	BA	3664	1/1	0.10	-	43,43,43,43	0
56	MG	BA	3434	1/1	0.17	-	34,34,34,34	0
56	MG	DA	3522	1/1	0.24	-	25,25,25,25	0
56	MG	BA	3385	1/1	0.10	-	39,39,39,39	0
56	MG	BA	3748	1/1	0.12	-	63,63,63,63	0
56	MG	BA	3374	1/1	0.06	-	37,37,37,37	0
56	MG	CA	3052	1/1	0.06	-	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BB	3002	1/1	0.15	-	52,52,52,52	0
56	MG	BA	3630	1/1	0.09	-	30,30,30,30	0
56	MG	DA	3413	1/1	0.18	-	36,36,36,36	0
56	MG	BA	3372	1/1	0.20	-	24,24,24,24	0
56	MG	BA	3403	1/1	0.30	-	31,31,31,31	0
56	MG	BA	3641	1/1	0.19	-	49,49,49,49	0
56	MG	BA	3756	1/1	0.20	-	27,27,27,27	0
56	MG	DA	3305	1/1	0.17	-	28,28,28,28	0
56	MG	BA	3311	1/1	0.18	-	37,37,37,37	0
56	MG	AA	3190	1/1	0.12	-	65,65,65,65	0
56	MG	BA	3480	1/1	0.09	-	56,56,56,56	0
56	MG	B7	102	1/1	0.23	-	58,58,58,58	0
56	MG	DA	3619	1/1	0.06	-	58,58,58,58	0
56	MG	B1	102	1/1	0.31	-	68,68,68,68	0
56	MG	BA	3181	1/1	0.22	-	41,41,41,41	0
56	MG	BA	3131	1/1	0.13	-	38,38,38,38	0
56	MG	AA	3099	1/1	0.19	-	63,63,63,63	0
56	MG	DA	3173	1/1	0.15	-	30,30,30,30	0
56	MG	AA	3198	1/1	0.29	-	70,70,70,70	0
56	MG	BA	3077	1/1	0.15	-	34,34,34,34	0
56	MG	BA	3307	1/1	0.20	-	37,37,37,37	0
56	MG	DA	3079	1/1	0.19	-	48,48,48,48	0
56	MG	BA	3765	1/1	0.12	-	33,33,33,33	0
56	MG	BB	3001	1/1	0.16	-	50,50,50,50	0
56	MG	BA	3456	1/1	0.32	-	41,41,41,41	0
56	MG	BA	3439	1/1	0.10	-	58,58,58,58	0
56	MG	CA	3141	1/1	0.14	-	49,49,49,49	0
56	MG	AA	3135	1/1	0.13	-	65,65,65,65	0
56	MG	BA	3061	1/1	0.10	-	40,40,40,40	0
56	MG	DA	3564	1/1	0.26	-	53,53,53,53	0
56	MG	BA	3590	1/1	0.21	-	32,32,32,32	0
56	MG	DA	3109	1/1	0.14	-	66,66,66,66	0
56	MG	DA	3008	1/1	0.18	-	33,33,33,33	0
56	MG	CA	3158	1/1	0.14	-	53,53,53,53	0
56	MG	AY	3003	1/1	0.10	-	48,48,48,48	0
56	MG	DA	3474	1/1	0.09	-	53,53,53,53	0
56	MG	BA	3292	1/1	0.13	-	42,42,42,42	0
56	MG	BA	3839	1/1	0.11	-	38,38,38,38	0
56	MG	BA	3424	1/1	0.23	-	24,24,24,24	0
56	MG	DA	3100	1/1	0.17	-	36,36,36,36	0
56	MG	DA	3649	1/1	0.06	-	64,64,64,64	0
56	MG	AA	3147	1/1	0.11	-	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3273	1/1	0.08	-	45,45,45,45	0
56	MG	AA	3162	1/1	0.26	-	59,59,59,59	0
56	MG	DA	3134	1/1	0.11	-	49,49,49,49	0
56	MG	BA	3708	1/1	0.18	-	63,63,63,63	0
56	MG	AA	3131	1/1	0.26	-	63,63,63,63	0
56	MG	BA	3050	1/1	0.10	-	31,31,31,31	0
56	MG	AA	3225	1/1	0.08	-	26,26,26,26	0
56	MG	CA	3022	1/1	0.07	-	53,53,53,53	0
56	MG	AA	3136	1/1	0.09	-	53,53,53,53	0
56	MG	BA	3409	1/1	0.18	-	62,62,62,62	0
56	MG	CA	3171	1/1	0.13	-	63,63,63,63	0
56	MG	DA	3209	1/1	0.21	-	52,52,52,52	0
56	MG	BA	3562	1/1	0.17	-	35,35,35,35	0
56	MG	BA	3519	1/1	0.14	-	44,44,44,44	0
56	MG	AA	3151	1/1	0.16	-	41,41,41,41	0
56	MG	BA	3277	1/1	0.14	-	54,54,54,54	0
56	MG	DA	3581	1/1	0.11	-	63,63,63,63	0
56	MG	BA	3825	1/1	0.13	-	65,65,65,65	0
56	MG	BA	3453	1/1	0.17	-	42,42,42,42	0
56	MG	DA	3004	1/1	0.16	-	42,42,42,42	0
56	MG	DA	3421	1/1	0.17	-	53,53,53,53	0
56	MG	BA	3127	1/1	0.12	-	41,41,41,41	0
56	MG	DA	3391	1/1	0.08	-	44,44,44,44	0
56	MG	DA	3049	1/1	0.15	-	24,24,24,24	0
56	MG	DA	3418	1/1	0.17	-	37,37,37,37	0
56	MG	B0	103	1/1	0.07	-	54,54,54,54	0
56	MG	BA	3402	1/1	0.16	-	30,30,30,30	0
56	MG	AA	3041	1/1	0.24	-	52,52,52,52	0
56	MG	DB	3005	1/1	0.24	-	64,64,64,64	0
56	MG	DA	3435	1/1	0.15	-	44,44,44,44	0
56	MG	BA	3571	1/1	0.09	-	66,66,66,66	0
56	MG	DR	5001	1/1	0.11	-	58,58,58,58	0
56	MG	BA	3370	1/1	0.09	-	60,60,60,60	0
56	MG	AA	3013	1/1	0.10	-	51,51,51,51	0
56	MG	AW	3005	1/1	0.27	-	68,68,68,68	0
56	MG	BA	3667	1/1	0.09	-	52,52,52,52	0
56	MG	AA	3108	1/1	0.12	-	55,55,55,55	0
56	MG	AA	3169	1/1	0.10	-	64,64,64,64	0
56	MG	BA	3786	1/1	0.07	-	37,37,37,37	0
56	MG	BA	3086	1/1	0.18	-	41,41,41,41	0
56	MG	BA	3834	1/1	0.11	-	35,35,35,35	0
56	MG	BA	3543	1/1	0.21	-	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	3185	1/1	0.23	-	53,53,53,53	0
56	MG	BA	3495	1/1	0.16	-	34,34,34,34	0
56	MG	DA	3143	1/1	0.13	-	50,50,50,50	0
56	MG	BA	3056	1/1	0.21	-	33,33,33,33	0
56	MG	BA	3312	1/1	0.17	-	33,33,33,33	0
56	MG	BQ	3002	1/1	0.10	-	37,37,37,37	0
56	MG	DA	3477	1/1	0.09	-	55,55,55,55	0
56	MG	BA	3781	1/1	0.16	-	52,52,52,52	0
56	MG	BA	3250	1/1	0.15	-	40,40,40,40	0
56	MG	BA	3243	1/1	0.13	-	44,44,44,44	0
56	MG	BA	3417	1/1	0.19	-	33,33,33,33	0
56	MG	CA	3140	1/1	0.12	-	79,79,79,79	0
56	MG	DA	3308	1/1	0.13	-	45,45,45,45	0
56	MG	DA	3389	1/1	0.03	-	53,53,53,53	0
56	MG	BA	3252	1/1	0.19	-	45,45,45,45	0
56	MG	BA	3101	1/1	0.17	-	60,60,60,60	0
56	MG	BA	3142	1/1	0.23	-	34,34,34,34	0
56	MG	CF	3001	1/1	0.21	-	38,38,38,38	0
56	MG	CA	3079	1/1	0.11	-	54,54,54,54	0
56	MG	BA	3190	1/1	0.13	-	45,45,45,45	0
56	MG	BA	3371	1/1	0.11	-	54,54,54,54	0
56	MG	DA	3438	1/1	0.10	-	60,60,60,60	0
56	MG	BA	3640	1/1	0.18	-	39,39,39,39	0
56	MG	BA	3823	1/1	0.10	-	53,53,53,53	0
56	MG	DA	3250	1/1	0.11	-	61,61,61,61	0
56	MG	BA	3637	1/1	0.14	-	59,59,59,59	0
56	MG	DA	3265	1/1	0.22	-	52,52,52,52	0
56	MG	BE	303	1/1	0.17	-	27,27,27,27	0
56	MG	AA	3003	1/1	0.17	-	66,66,66,66	0
56	MG	BA	3536	1/1	0.15	-	48,48,48,48	0
56	MG	BA	3310	1/1	0.16	-	57,57,57,57	0
56	MG	DA	3331	1/1	0.22	-	39,39,39,39	0
56	MG	BR	205	1/1	0.11	-	29,29,29,29	0
56	MG	DA	3039	1/1	0.13	-	56,56,56,56	0
56	MG	BA	3634	1/1	0.15	-	64,64,64,64	0
56	MG	BA	3157	1/1	0.11	-	36,36,36,36	0
56	MG	AA	3229	1/1	0.24	-	62,62,62,62	0
56	MG	DA	3382	1/1	0.07	-	44,44,44,44	0
56	MG	BA	3257	1/1	0.24	-	41,41,41,41	0
56	MG	DA	3321	1/1	0.25	-	35,35,35,35	0
56	MG	BA	3759	1/1	0.12	-	9,9,9,9	0
56	MG	CA	3124	1/1	0.10	-	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	3057	1/1	0.11	-	58,58,58,58	0
56	MG	B5	101	1/1	0.14	-	31,31,31,31	0
56	MG	DA	3669	1/1	0.15	-	49,49,49,49	0
56	MG	DA	3327	1/1	0.14	-	59,59,59,59	0
56	MG	BA	3450	1/1	0.28	-	34,34,34,34	0
56	MG	BU	202	1/1	0.18	-	40,40,40,40	0
56	MG	BA	3676	1/1	0.22	-	53,53,53,53	0
56	MG	CA	3067	1/1	0.09	-	79,79,79,79	0
56	MG	BA	3816	1/1	0.17	-	21,21,21,21	0
56	MG	AA	3174	1/1	0.11	-	60,60,60,60	0
56	MG	BA	3604	1/1	0.32	-	72,72,72,72	0
56	MG	DA	3080	1/1	0.17	-	45,45,45,45	0
56	MG	DQ	3004	1/1	0.11	-	51,51,51,51	0
56	MG	BB	3013	1/1	0.13	-	42,42,42,42	0
56	MG	DA	3261	1/1	0.05	-	44,44,44,44	0
56	MG	BA	3686	1/1	0.20	-	30,30,30,30	0
56	MG	BA	3365	1/1	0.14	-	49,49,49,49	0
56	MG	DA	3180	1/1	0.10	-	51,51,51,51	0
56	MG	BA	3583	1/1	0.12	-	45,45,45,45	0
56	MG	DA	3466	1/1	0.14	-	62,62,62,62	0
56	MG	CA	3011	1/1	0.15	-	63,63,63,63	0
56	MG	DA	3060	1/1	0.15	-	47,47,47,47	0
56	MG	CT	3001	1/1	0.06	-	47,47,47,47	0
56	MG	AA	3209	1/1	0.23	-	51,51,51,51	0
56	MG	DA	3098	1/1	0.16	-	43,43,43,43	0
56	MG	DA	3626	1/1	0.05	-	54,54,54,54	0
56	MG	BA	3597	1/1	0.20	-	44,44,44,44	0
56	MG	BA	3754	1/1	0.15	-	60,60,60,60	0
56	MG	CA	3110	1/1	0.06	-	48,48,48,48	0
56	MG	BA	3339	1/1	0.10	-	40,40,40,40	0
56	MG	BA	3389	1/1	0.18	-	37,37,37,37	0
56	MG	BA	3498	1/1	0.07	-	54,54,54,54	0
56	MG	AA	3076	1/1	0.11	-	55,55,55,55	0
56	MG	BA	3692	1/1	0.23	-	57,57,57,57	0
56	MG	DA	3584	1/1	0.30	-	58,58,58,58	0
56	MG	BA	3632	1/1	0.06	-	55,55,55,55	0
56	MG	CA	3021	1/1	0.10	-	42,42,42,42	0
56	MG	DA	3644	1/1	0.33	-	55,55,55,55	0
56	MG	AA	3022	1/1	0.17	-	55,55,55,55	0
56	MG	BA	3448	1/1	0.19	-	28,28,28,28	0
56	MG	DE	301	1/1	0.35	-	45,45,45,45	0
56	MG	DA	3586	1/1	0.09	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	3066	1/1	0.08	-	44,44,44,44	0
56	MG	CA	3136	1/1	0.16	-	65,65,65,65	0
56	MG	BA	3011	1/1	0.17	-	40,40,40,40	0
56	MG	BA	3188	1/1	0.17	-	19,19,19,19	0
56	MG	BA	3268	1/1	0.26	-	58,58,58,58	0
56	MG	BA	3038	1/1	0.26	-	47,47,47,47	0
56	MG	CA	3071	1/1	0.13	-	50,50,50,50	0
56	MG	DA	3400	1/1	0.33	-	39,39,39,39	0
56	MG	DA	3047	1/1	0.10	-	49,49,49,49	0
56	MG	DA	3551	1/1	0.12	-	55,55,55,55	0
56	MG	DA	3165	1/1	0.22	-	33,33,33,33	0
56	MG	BA	3542	1/1	0.14	-	48,48,48,48	0
56	MG	BA	3018	1/1	0.17	-	34,34,34,34	0
56	MG	DA	3624	1/1	0.05	-	47,47,47,47	0
56	MG	BA	3182	1/1	0.25	-	41,41,41,41	0
56	MG	DA	3634	1/1	0.09	-	53,53,53,53	0
56	MG	BA	3687	1/1	0.14	-	36,36,36,36	0
56	MG	DA	3535	1/1	0.25	-	54,54,54,54	0
56	MG	BA	3792	1/1	0.16	-	32,32,32,32	0
56	MG	BN	3003	1/1	0.09	-	38,38,38,38	0
56	MG	BA	3025	1/1	0.12	-	38,38,38,38	0
56	MG	BA	3470	1/1	0.15	-	48,48,48,48	0
56	MG	DA	3227	1/1	0.20	-	38,38,38,38	0
56	MG	BA	3790	1/1	0.09	-	32,32,32,32	0
56	MG	BA	3116	1/1	0.10	-	29,29,29,29	0
56	MG	BA	3746	1/1	0.29	-	25,25,25,25	0
56	MG	DA	3221	1/1	0.12	-	49,49,49,49	0
56	MG	CA	3128	1/1	0.10	-	63,63,63,63	0
56	MG	DA	3214	1/1	0.18	-	47,47,47,47	0
56	MG	BA	3628	1/1	0.14	-	30,30,30,30	0
56	MG	DA	3287	1/1	0.12	-	47,47,47,47	0
56	MG	BA	3833	1/1	0.13	-	43,43,43,43	0
56	MG	DA	3290	1/1	0.12	-	44,44,44,44	0
56	MG	BA	3260	1/1	0.41	-	57,57,57,57	0
56	MG	BA	3044	1/1	0.19	-	49,49,49,49	0
56	MG	DA	3052	1/1	0.11	-	38,38,38,38	0
56	MG	BA	3596	1/1	0.27	-	45,45,45,45	0
56	MG	AA	3114	1/1	0.25	-	51,51,51,51	0
56	MG	DA	3340	1/1	0.19	-	42,42,42,42	0
56	MG	DA	3380	1/1	0.15	-	55,55,55,55	0
56	MG	AA	3157	1/1	0.16	-	46,46,46,46	0
56	MG	BA	3177	1/1	0.20	-	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	3192	1/1	0.28	-	69,69,69,69	0
56	MG	CA	3154	1/1	0.14	-	62,62,62,62	0
56	MG	AA	3211	1/1	0.09	-	59,59,59,59	0
56	MG	BA	3369	1/1	0.12	-	55,55,55,55	0
56	MG	DA	3425	1/1	0.06	-	45,45,45,45	0
56	MG	BA	3158	1/1	0.27	-	44,44,44,44	0
56	MG	BB	3023	1/1	0.15	-	46,46,46,46	0
56	MG	CA	3121	1/1	0.21	-	75,75,75,75	0
56	MG	BA	3199	1/1	0.10	-	53,53,53,53	0
56	MG	DA	3591	1/1	0.12	-	56,56,56,56	0
56	MG	DA	3280	1/1	0.09	-	43,43,43,43	0
56	MG	CA	3060	1/1	0.21	-	68,68,68,68	0
56	MG	BA	3595	1/1	0.17	-	32,32,32,32	0
56	MG	DA	3555	1/1	0.09	-	54,54,54,54	0
56	MG	BA	3334	1/1	0.20	-	30,30,30,30	0
56	MG	DA	3264	1/1	0.11	-	31,31,31,31	0
56	MG	AX	3012	1/1	0.21	-	59,59,59,59	0
56	MG	BA	3289	1/1	0.21	-	55,55,55,55	0
56	MG	DA	3036	1/1	0.07	-	29,29,29,29	0
56	MG	DA	3116	1/1	0.10	-	57,57,57,57	0
56	MG	BA	3768	1/1	0.07	-	56,56,56,56	0
56	MG	AA	3186	1/1	0.13	-	52,52,52,52	0
56	MG	DA	3064	1/1	0.06	-	64,64,64,64	0
56	MG	BA	3240	1/1	0.28	-	45,45,45,45	0
56	MG	BA	3685	1/1	0.11	-	59,59,59,59	0
56	MG	BA	3041	1/1	0.22	-	18,18,18,18	0
56	MG	BA	3567	1/1	0.16	-	50,50,50,50	0
56	MG	DA	3232	1/1	0.14	-	53,53,53,53	0
56	MG	DA	3181	1/1	0.18	-	45,45,45,45	0
56	MG	DA	3388	1/1	0.13	-	35,35,35,35	0
56	MG	BB	3016	1/1	0.10	-	43,43,43,43	0
56	MG	DA	3589	1/1	0.20	-	63,63,63,63	0
56	MG	AA	3145	1/1	0.14	-	58,58,58,58	0
56	MG	DA	3082	1/1	0.18	-	34,34,34,34	0
56	MG	BA	3114	1/1	0.39	-	52,52,52,52	0
56	MG	BA	3732	1/1	0.29	-	40,40,40,40	0
56	MG	BA	3762	1/1	0.26	-	40,40,40,40	0
56	MG	DA	3655	1/1	0.14	-	57,57,57,57	0
56	MG	DA	3203	1/1	0.20	-	37,37,37,37	0
56	MG	AA	3125	1/1	0.09	-	71,71,71,71	0
56	MG	DA	3454	1/1	0.21	-	54,54,54,54	0
56	MG	AA	3074	1/1	0.13	-	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3600	1/1	0.10	-	56,56,56,56	0
56	MG	BA	3659	1/1	0.21	-	53,53,53,53	0
56	MG	DA	3401	1/1	0.29	-	36,36,36,36	0
56	MG	BD	304	1/1	0.16	-	48,48,48,48	0
56	MG	BA	3724	1/1	0.30	-	44,44,44,44	0
56	MG	BA	3301	1/1	0.10	-	26,26,26,26	0
56	MG	CE	201	1/1	0.12	-	50,50,50,50	0
56	MG	BA	3617	1/1	0.07	-	64,64,64,64	0
56	MG	DA	3518	1/1	0.16	-	50,50,50,50	0
56	MG	BA	3204	1/1	0.22	-	66,66,66,66	0
56	MG	BA	3530	1/1	0.16	-	51,51,51,51	0
56	MG	DA	3628	1/1	0.18	-	56,56,56,56	0
56	MG	BA	3352	1/1	0.23	-	29,29,29,29	0
56	MG	BA	3295	1/1	0.19	-	42,42,42,42	0
56	MG	DA	3322	1/1	0.24	-	43,43,43,43	0
56	MG	BA	3106	1/1	0.31	-	50,50,50,50	0
56	MG	CA	3026	1/1	0.19	-	64,64,64,64	0
56	MG	BA	3516	1/1	0.20	-	65,65,65,65	0
56	MG	CA	3156	1/1	0.07	-	68,68,68,68	0
56	MG	DA	3096	1/1	0.15	-	51,51,51,51	0
56	MG	DA	3119	1/1	0.15	-	62,62,62,62	0
56	MG	DA	3211	1/1	0.12	-	48,48,48,48	0
56	MG	BA	3454	1/1	0.12	-	31,31,31,31	0
56	MG	DA	3597	1/1	0.10	-	51,51,51,51	0
56	MG	BA	3051	1/1	0.16	-	25,25,25,25	0
56	MG	DA	3362	1/1	0.20	-	43,43,43,43	0
56	MG	CA	3175	1/1	0.14	-	39,39,39,39	0
56	MG	AA	3178	1/1	0.09	-	54,54,54,54	0
56	MG	BA	3477	1/1	0.16	-	55,55,55,55	0
56	MG	DA	3675	1/1	0.34	-	44,44,44,44	0
56	MG	DA	3218	1/1	0.14	-	47,47,47,47	0
56	MG	BA	3163	1/1	0.18	-	45,45,45,45	0
56	MG	BA	3002	1/1	0.28	-	62,62,62,62	0
56	MG	CA	3099	1/1	0.13	-	62,62,62,62	0
56	MG	DA	3673	1/1	0.17	-	61,61,61,61	0
56	MG	DA	3151	1/1	0.22	-	44,44,44,44	0
56	MG	DA	3424	1/1	0.24	-	63,63,63,63	0
56	MG	DA	3228	1/1	0.13	-	42,42,42,42	0
56	MG	AA	3040	1/1	0.09	-	59,59,59,59	0
56	MG	BA	3326	1/1	0.18	-	38,38,38,38	0
56	MG	BA	3440	1/1	0.22	-	29,29,29,29	0
56	MG	BA	3460	1/1	0.19	-	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	3111	1/1	0.17	-	61,61,61,61	0
56	MG	BA	3534	1/1	0.30	-	31,31,31,31	0
56	MG	DA	3319	1/1	0.25	-	43,43,43,43	0
56	MG	AA	3195	1/1	0.07	-	59,59,59,59	0
56	MG	DA	3632	1/1	0.17	-	58,58,58,58	0
56	MG	BA	3752	1/1	0.15	-	19,19,19,19	0
56	MG	CA	3074	1/1	0.32	-	55,55,55,55	0
56	MG	AA	3047	1/1	0.09	-	47,47,47,47	0
56	MG	BA	3513	1/1	0.09	-	34,34,34,34	0
56	MG	DA	3606	1/1	0.20	-	54,54,54,54	0
56	MG	CA	3143	1/1	0.14	-	62,62,62,62	0
56	MG	AA	3221	1/1	0.12	-	49,49,49,49	0
56	MG	BA	3107	1/1	0.15	-	20,20,20,20	0
56	MG	DA	3285	1/1	0.14	-	28,28,28,28	0
56	MG	BA	3174	1/1	0.11	-	34,34,34,34	0
56	MG	BA	3288	1/1	0.31	-	40,40,40,40	0
56	MG	BA	3831	1/1	0.96	-	52,52,52,52	0
56	MG	BA	3511	1/1	0.17	-	54,54,54,54	0
56	MG	DA	3350	1/1	0.24	-	29,29,29,29	0
56	MG	AA	3175	1/1	0.15	-	54,54,54,54	0
56	MG	BA	3649	1/1	0.07	-	43,43,43,43	0
56	MG	DA	3447	1/1	0.18	-	35,35,35,35	0
56	MG	BA	3533	1/1	0.17	-	50,50,50,50	0
56	MG	DA	3501	1/1	0.10	-	59,59,59,59	0
56	MG	DA	3237	1/1	0.04	-	51,51,51,51	0
56	MG	BA	3185	1/1	0.12	-	32,32,32,32	0
56	MG	DA	3542	1/1	0.17	-	63,63,63,63	0
56	MG	BA	3166	1/1	0.17	-	40,40,40,40	0
56	MG	BA	3202	1/1	0.10	-	46,46,46,46	0
56	MG	BA	3587	1/1	0.13	-	44,44,44,44	0
56	MG	BA	3218	1/1	0.13	-	44,44,44,44	0
56	MG	CA	3103	1/1	0.08	-	75,75,75,75	0
56	MG	AA	3007	1/1	0.21	-	65,65,65,65	0
56	MG	BA	3071	1/1	0.23	-	42,42,42,42	0
56	MG	DA	3167	1/1	0.20	-	47,47,47,47	0
56	MG	DA	3033	1/1	0.16	-	31,31,31,31	0
56	MG	BP	202	1/1	0.18	-	34,34,34,34	0
56	MG	DA	3594	1/1	0.07	-	44,44,44,44	0
56	MG	BA	3636	1/1	0.08	-	53,53,53,53	0
56	MG	AA	3117	1/1	0.13	-	48,48,48,48	0
56	MG	BA	3276	1/1	0.18	-	41,41,41,41	0
56	MG	BB	3009	1/1	0.16	-	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	3035	1/1	0.05	-	60,60,60,60	0
56	MG	BA	3712	1/1	0.11	-	64,64,64,64	0
56	MG	DA	3601	1/1	0.14	-	54,54,54,54	0
56	MG	AA	3030	1/1	0.10	-	57,57,57,57	0
56	MG	B1	101	1/1	0.47	-	44,44,44,44	0
56	MG	DA	3410	1/1	0.14	-	62,62,62,62	0
56	MG	BA	3487	1/1	0.23	-	25,25,25,25	0
56	MG	DA	3603	1/1	0.12	-	52,52,52,52	0
56	MG	AA	3052	1/1	0.17	-	68,68,68,68	0
56	MG	BA	3058	1/1	0.20	-	36,36,36,36	0
56	MG	BA	3099	1/1	0.12	-	50,50,50,50	0
56	MG	AA	3222	1/1	0.20	-	67,67,67,67	0
56	MG	DA	3397	1/1	0.10	-	49,49,49,49	0
56	MG	DA	3376	1/1	0.17	-	54,54,54,54	0
56	MG	DA	3519	1/1	0.12	-	24,24,24,24	0
56	MG	DA	3416	1/1	0.25	-	40,40,40,40	0
56	MG	AX	3009	1/1	0.17	-	71,71,71,71	0
56	MG	DA	3002	1/1	0.11	-	68,68,68,68	0
56	MG	CA	3172	1/1	0.11	-	64,64,64,64	0
56	MG	BB	3010	1/1	0.06	-	48,48,48,48	0
56	MG	DA	3543	1/1	0.14	-	55,55,55,55	0
56	MG	CA	3139	1/1	0.13	-	61,61,61,61	0
56	MG	AA	3134	1/1	0.22	-	69,69,69,69	0
56	MG	BA	3231	1/1	0.20	-	37,37,37,37	0
56	MG	BV	204	1/1	0.16	-	50,50,50,50	0
56	MG	DB	3002	1/1	0.12	-	56,56,56,56	0
56	MG	BU	205	1/1	0.25	-	38,38,38,38	0
56	MG	BV	203	1/1	0.29	-	32,32,32,32	0
56	MG	DA	3526	1/1	0.16	-	47,47,47,47	0
56	MG	DF	305	1/1	0.30	-	43,43,43,43	0
56	MG	AA	3167	1/1	0.19	-	47,47,47,47	0
56	MG	BA	3168	1/1	0.12	-	27,27,27,27	0
56	MG	AW	3003	1/1	0.22	-	59,59,59,59	0
56	MG	BA	3072	1/1	0.11	-	30,30,30,30	0
56	MG	BA	3794	1/1	0.19	-	33,33,33,33	0
56	MG	AA	3068	1/1	0.12	-	60,60,60,60	0
56	MG	DA	3275	1/1	0.09	-	52,52,52,52	0
56	MG	DA	3223	1/1	0.11	-	54,54,54,54	0
56	MG	BA	3544	1/1	0.19	-	35,35,35,35	0
56	MG	AA	3092	1/1	0.17	-	39,39,39,39	0
56	MG	DA	3616	1/1	0.06	-	45,45,45,45	0
56	MG	AA	3160	1/1	0.11	-	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3437	1/1	0.16	-	28,28,28,28	0
56	MG	DA	3225	1/1	0.18	-	54,54,54,54	0
56	MG	BA	3648	1/1	0.30	-	53,53,53,53	0
56	MG	DA	3572	1/1	0.17	-	28,28,28,28	0
56	MG	DA	3422	1/1	0.29	-	43,43,43,43	0
56	MG	DA	3439	1/1	0.15	-	50,50,50,50	0
56	MG	AA	3176	1/1	0.08	-	54,54,54,54	0
56	MG	BA	3443	1/1	0.10	-	25,25,25,25	0
56	MG	DA	3631	1/1	0.21	-	56,56,56,56	0
56	MG	BA	3291	1/1	0.15	-	71,71,71,71	0
56	MG	BA	3258	1/1	0.21	-	41,41,41,41	0
56	MG	DA	3028	1/1	0.20	-	70,70,70,70	0
56	MG	BA	3083	1/1	0.40	-	47,47,47,47	0
56	MG	CA	3122	1/1	0.14	-	70,70,70,70	0
56	MG	CA	3073	1/1	0.22	-	48,48,48,48	0
56	MG	BA	3134	1/1	0.12	-	35,35,35,35	0
56	MG	CA	3173	1/1	0.09	-	69,69,69,69	0
56	MG	AA	3091	1/1	0.07	-	70,70,70,70	0
56	MG	BD	306	1/1	0.25	-	22,22,22,22	0
56	MG	DA	3403	1/1	0.14	-	57,57,57,57	0
56	MG	DA	3370	1/1	0.08	-	46,46,46,46	0
56	MG	BA	3449	1/1	0.24	-	60,60,60,60	0
56	MG	BA	3112	1/1	0.41	-	57,57,57,57	0
56	MG	AY	3002	1/1	0.09	-	68,68,68,68	0
56	MG	DA	3567	1/1	0.10	-	46,46,46,46	0
56	MG	DA	3554	1/1	0.14	-	23,23,23,23	0
56	MG	CA	3157	1/1	0.20	-	64,64,64,64	0
56	MG	BA	3594	1/1	0.20	-	24,24,24,24	0
56	MG	DA	3272	1/1	0.15	-	44,44,44,44	0
56	MG	BA	3159	1/1	0.18	-	30,30,30,30	0
56	MG	DA	3660	1/1	0.13	-	40,40,40,40	0
56	MG	BA	3775	1/1	0.12	-	43,43,43,43	0
56	MG	BA	3253	1/1	0.14	-	40,40,40,40	0
56	MG	DA	3390	1/1	0.06	-	54,54,54,54	0
56	MG	DA	3470	1/1	0.12	-	42,42,42,42	0
56	MG	BA	3660	1/1	0.14	-	51,51,51,51	0
56	MG	BA	3219	1/1	0.15	-	29,29,29,29	0
56	MG	BA	3381	1/1	0.10	-	43,43,43,43	0
56	MG	AA	3093	1/1	0.12	-	50,50,50,50	0
56	MG	BA	3398	1/1	0.16	-	42,42,42,42	0
56	MG	DD	307	1/1	0.12	-	56,56,56,56	0
56	MG	BA	3212	1/1	0.23	-	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3411	1/1	0.14	-	46,46,46,46	0
56	MG	AA	3051	1/1	0.12	-	62,62,62,62	0
56	MG	DD	305	1/1	0.30	-	38,38,38,38	0
56	MG	AA	3216	1/1	0.11	-	72,72,72,72	0
56	MG	DE	302	1/1	0.11	-	39,39,39,39	0
56	MG	BA	3743	1/1	0.17	-	21,21,21,21	0
56	MG	BA	3619	1/1	0.27	-	51,51,51,51	0
56	MG	BA	3033	1/1	0.19	-	33,33,33,33	0
56	MG	AA	3227	1/1	0.16	-	48,48,48,48	0
56	MG	DA	3187	1/1	0.08	-	56,56,56,56	0
56	MG	BU	206	1/1	0.38	-	43,43,43,43	0
56	MG	CA	3129	1/1	0.15	-	61,61,61,61	0
56	MG	BB	3005	1/1	0.14	-	64,64,64,64	0
56	MG	DA	3057	1/1	0.09	-	47,47,47,47	0
56	MG	BA	3512	1/1	0.25	-	27,27,27,27	0
56	MG	BA	3362	1/1	0.19	-	19,19,19,19	0
56	MG	BA	3269	1/1	0.28	-	53,53,53,53	0
56	MG	BA	3653	1/1	0.23	-	49,49,49,49	0
56	MG	DA	3506	1/1	0.08	-	48,48,48,48	0
56	MG	BA	3800	1/1	0.12	-	39,39,39,39	0
56	MG	BA	3774	1/1	0.09	-	43,43,43,43	0
56	MG	DA	3640	1/1	0.12	-	52,52,52,52	0
56	MG	DA	3046	1/1	0.29	-	57,57,57,57	0
56	MG	DA	3012	1/1	0.10	-	39,39,39,39	0
56	MG	BA	3407	1/1	0.15	-	37,37,37,37	0
56	MG	DA	3141	1/1	0.10	-	56,56,56,56	0
56	MG	AA	3144	1/1	0.08	-	50,50,50,50	0
56	MG	BA	3613	1/1	0.10	-	45,45,45,45	0
56	MG	AA	3143	1/1	0.10	-	73,73,73,73	0
56	MG	AA	3228	1/1	0.09	-	68,68,68,68	0
56	MG	BA	3652	1/1	0.10	-	46,46,46,46	0
56	MG	DA	3239	1/1	0.12	-	54,54,54,54	0
56	MG	BA	3214	1/1	0.10	-	49,49,49,49	0
56	MG	DA	3269	1/1	0.15	-	32,32,32,32	0
56	MG	DA	3204	1/1	0.23	-	51,51,51,51	0
56	MG	DA	3351	1/1	0.13	-	39,39,39,39	0
56	MG	BA	3110	1/1	0.17	-	41,41,41,41	0
56	MG	BA	3144	1/1	0.06	-	43,43,43,43	0
56	MG	BA	3503	1/1	0.18	-	58,58,58,58	0
56	MG	BA	3601	1/1	0.10	-	42,42,42,42	0
56	MG	DA	3335	1/1	0.16	-	32,32,32,32	0
56	MG	BA	3566	1/1	0.20	-	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3665	1/1	0.20	-	49,49,49,49	0
56	MG	CX	3006	1/1	0.47	-	70,70,70,70	0
56	MG	BN	3002	1/1	0.11	-	46,46,46,46	0
56	MG	BA	3647	1/1	0.08	-	45,45,45,45	0
56	MG	AA	3205	1/1	0.10	-	51,51,51,51	0
56	MG	BA	3248	1/1	0.11	-	45,45,45,45	0
56	MG	DV	3001	1/1	0.27	-	71,71,71,71	0
56	MG	BA	3693	1/1	0.13	-	70,70,70,70	0
56	MG	CA	3095	1/1	0.06	-	61,61,61,61	0
56	MG	DA	3377	1/1	0.08	-	42,42,42,42	0
56	MG	DB	3001	1/1	0.04	-	73,73,73,73	0
56	MG	BG	203	1/1	0.05	-	36,36,36,36	0
56	MG	CA	3002	1/1	0.08	-	51,51,51,51	0
56	MG	BA	3555	1/1	0.25	-	33,33,33,33	0
56	MG	DA	3248	1/1	0.28	-	33,33,33,33	0
56	MG	BA	3394	1/1	0.11	-	52,52,52,52	0
56	MG	BA	3316	1/1	0.21	-	23,23,23,23	0
56	MG	BA	3282	1/1	0.24	-	24,24,24,24	0
56	MG	BA	3305	1/1	0.11	-	33,33,33,33	0
56	MG	DA	3199	1/1	0.32	-	52,52,52,52	0
56	MG	DA	3267	1/1	0.18	-	38,38,38,38	0
56	MG	DA	3507	1/1	0.22	-	60,60,60,60	0
56	MG	DA	3086	1/1	0.16	-	62,62,62,62	0
56	MG	BA	3785	1/1	0.14	-	41,41,41,41	0
56	MG	DA	3472	1/1	0.04	-	33,33,33,33	0
56	MG	BA	3528	1/1	0.10	-	43,43,43,43	0
56	MG	BB	3004	1/1	0.10	-	47,47,47,47	0
56	MG	AA	3017	1/1	0.10	-	62,62,62,62	0
56	MG	DA	3636	1/1	0.16	-	56,56,56,56	0
56	MG	BA	3592	1/1	0.11	-	29,29,29,29	0
56	MG	DA	3595	1/1	0.11	-	61,61,61,61	0
56	MG	DA	3412	1/1	0.14	-	63,63,63,63	0
56	MG	BA	3285	1/1	0.34	-	49,49,49,49	0
56	MG	DA	3504	1/1	0.12	-	60,60,60,60	0
56	MG	BA	3024	1/1	0.19	-	22,22,22,22	0
56	MG	AA	3203	1/1	0.18	-	57,57,57,57	0
56	MG	DA	3629	1/1	0.13	-	52,52,52,52	0
56	MG	BA	3082	1/1	0.17	-	59,59,59,59	0
56	MG	DA	3627	1/1	0.06	-	48,48,48,48	0
56	MG	DA	3530	1/1	0.18	-	55,55,55,55	0
56	MG	DA	3568	1/1	0.14	-	54,54,54,54	0
56	MG	BA	3347	1/1	0.19	-	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3224	1/1	0.22	-	48,48,48,48	0
56	MG	DA	3140	1/1	0.10	-	34,34,34,34	0
56	MG	DA	3536	1/1	0.18	-	54,54,54,54	0
56	MG	DA	3095	1/1	0.19	-	47,47,47,47	0
56	MG	AA	3148	1/1	0.14	-	63,63,63,63	0
56	MG	DA	3190	1/1	0.11	-	45,45,45,45	0
56	MG	DA	3055	1/1	0.21	-	36,36,36,36	0
56	MG	DA	3615	1/1	0.21	-	47,47,47,47	0
56	MG	BA	3836	1/1	0.40	-	45,45,45,45	0
56	MG	BA	3490	1/1	0.14	-	44,44,44,44	0
56	MG	BA	3426	1/1	0.16	-	22,22,22,22	0
56	MG	CA	3040	1/1	0.08	-	58,58,58,58	0
56	MG	BF	308	1/1	0.08	-	36,36,36,36	0
56	MG	BA	3196	1/1	0.18	-	51,51,51,51	0
56	MG	AA	3042	1/1	0.15	-	57,57,57,57	0
56	MG	BA	3635	1/1	0.17	-	62,62,62,62	0
56	MG	BA	3531	1/1	0.33	-	61,61,61,61	0
56	MG	AA	3109	1/1	0.20	-	64,64,64,64	0
56	MG	BF	303	1/1	0.51	-	42,42,42,42	0
56	MG	BA	3772	1/1	0.12	-	31,31,31,31	0
59	ZN	B4	501	1/1	0.13	-	73,73,73,73	0
56	MG	DA	3638	1/1	0.19	-	60,60,60,60	0
59	ZN	D4	501	1/1	0.08	-	119,119,119,119	0
56	MG	DA	3313	1/1	0.18	-	23,23,23,23	0
56	MG	DA	3293	1/1	0.09	-	60,60,60,60	0
57	PCY	CA	3178	40/40	0.29	-	58,78,89,91	0
56	MG	AA	3187	1/1	0.12	-	62,62,62,62	0
56	MG	DA	3414	1/1	0.15	-	41,41,41,41	0
56	MG	AA	3015	1/1	0.11	-	60,60,60,60	0
56	MG	BA	3719	1/1	0.09	-	42,42,42,42	0
56	MG	BB	3019	1/1	0.14	-	49,49,49,49	0
56	MG	BA	3302	1/1	0.13	-	35,35,35,35	0
56	MG	DF	304	1/1	0.27	-	39,39,39,39	0
56	MG	BA	3506	1/1	0.20	-	51,51,51,51	0
56	MG	DA	3557	1/1	0.20	-	34,34,34,34	0
56	MG	DA	3515	1/1	0.11	-	57,57,57,57	0
56	MG	DA	3455	1/1	0.15	-	27,27,27,27	0
56	MG	DA	3022	1/1	0.18	-	40,40,40,40	0
56	MG	DA	3019	1/1	0.12	-	57,57,57,57	0
56	MG	BA	3164	1/1	0.17	-	43,43,43,43	0
56	MG	BA	3298	1/1	0.17	-	68,68,68,68	0
56	MG	AA	3065	1/1	0.08	-	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSR	LLDF	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3069	1/1	0.22	-	53,53,53,53	0
56	MG	CA	3054	1/1	0.13	-	71,71,71,71	0
56	MG	DA	3263	1/1	0.08	-	61,61,61,61	0
56	MG	CA	3029	1/1	0.29	-	61,61,61,61	0
56	MG	AA	3063	1/1	0.06	-	63,63,63,63	0
56	MG	DA	3546	1/1	0.09	-	53,53,53,53	0
56	MG	DA	3296	1/1	0.08	-	48,48,48,48	0
56	MG	BA	3806	1/1	0.17	-	51,51,51,51	0
56	MG	BA	3696	1/1	0.12	-	33,33,33,33	0
56	MG	AX	3002	1/1	0.18	-	53,53,53,53	0
56	MG	BA	3467	1/1	0.19	-	39,39,39,39	0
56	MG	BA	3548	1/1	0.23	-	48,48,48,48	0
56	MG	AA	3026	1/1	0.17	-	53,53,53,53	0
56	MG	CA	3069	1/1	0.09	-	68,68,68,68	0
56	MG	BA	3022	1/1	0.19	-	40,40,40,40	0
56	MG	DA	3042	1/1	0.11	-	41,41,41,41	0
56	MG	BA	3300	1/1	0.17	-	22,22,22,22	0
56	MG	BA	3702	1/1	0.07	-	51,51,51,51	0
56	MG	DA	3063	1/1	0.13	-	46,46,46,46	0
56	MG	BA	3380	1/1	0.09	-	60,60,60,60	0
56	MG	DA	3387	1/1	0.20	-	56,56,56,56	0
56	MG	BA	3333	1/1	0.12	-	61,61,61,61	0
56	MG	BA	3280	1/1	0.15	-	49,49,49,49	0
56	MG	BU	203	1/1	0.08	-	31,31,31,31	0
56	MG	BA	3165	1/1	0.24	-	40,40,40,40	0
56	MG	DA	3311	1/1	0.19	-	42,42,42,42	0
56	MG	BA	3694	1/1	0.16	-	27,27,27,27	0
56	MG	BA	3129	1/1	0.13	-	36,36,36,36	0
56	MG	BA	3527	1/1	0.11	-	52,52,52,52	0
56	MG	BA	3766	1/1	0.14	-	31,31,31,31	0
56	MG	DA	3611	1/1	0.29	-	55,55,55,55	0
56	MG	DA	3656	1/1	0.13	-	62,62,62,62	0
56	MG	BN	3005	1/1	0.46	-	51,51,51,51	0
56	MG	DA	3133	1/1	0.16	-	40,40,40,40	0

## 6.5 Other polymers ⓘ

There are no such residues in this entry.