



wwPDB X-ray Structure Validation Summary Report ⓘ

Mar 6, 2026 – 11:54 AM UTC

PDB ID : 4W2F / pdb_00004w2f
Title : Crystal structure of the *Thermus thermophilus* 70S ribosome in complex with amicoumacin, 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.; Kusochek, 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 : 2.40 Å (reported)

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

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

A user guide is available at

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

with specific help available everywhere you see the ⓘ symbol.

The types of validation reports are described at

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

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

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

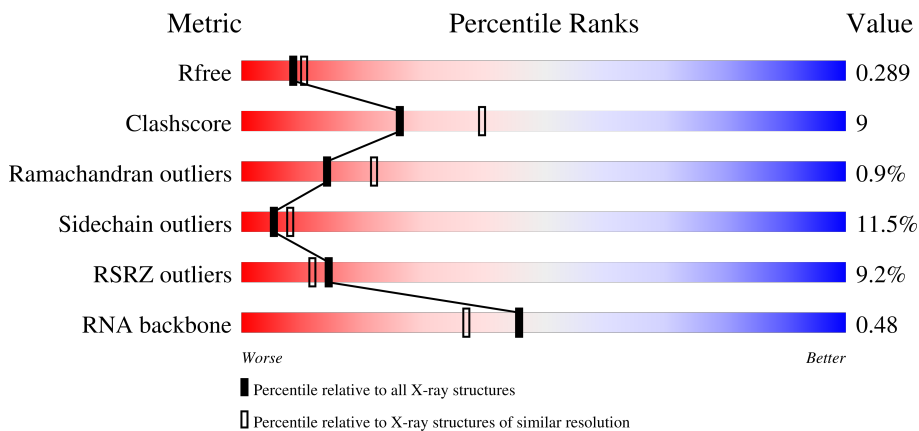
1 Overall quality at a glance i

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	180053	4912 (2.40-2.40)
Clashscore	190562	5391 (2.40-2.40)
Ramachandran outliers	187476	5320 (2.40-2.40)
Sidechain outliers	187428	5321 (2.40-2.40)
RSRZ outliers	180081	4916 (2.40-2.40)
RNA backbone	3983	1155 (2.70-2.10)

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

Mol	Chain	Length	Quality of chain
1	AA	1521	
1	CA	1521	

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Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
 Validation Pipeline (wwPDB-VP) : 2.49

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Mol	Chain	Length	Quality of chain
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	
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	

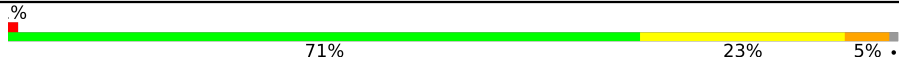

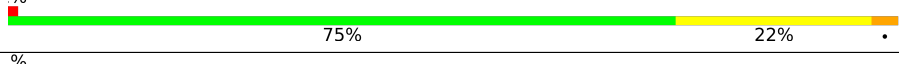


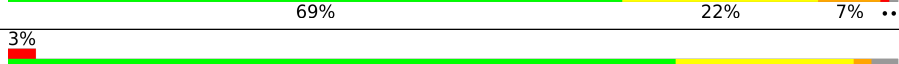
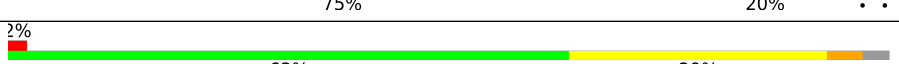
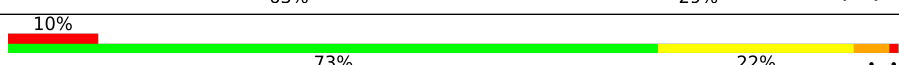
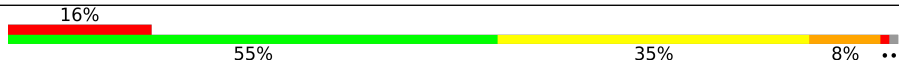


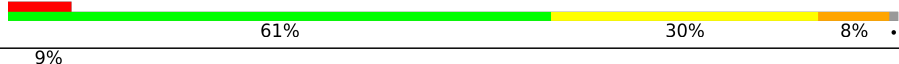
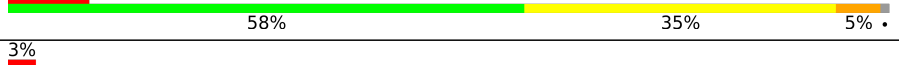

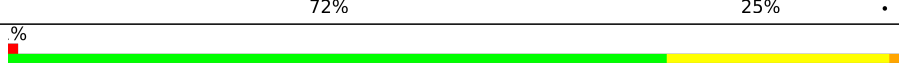










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Mol	Chain	Length	Quality of chain
14	CN	61	66% 62% 28% 8%
15	AO	89	7% 62% 34%
15	CO	89	9% 63% 33%
16	AP	88	17% 57% 31% 6% 7%
16	CP	88	16% 59% 32% 7%
17	AQ	105	7% 67% 21% 7% 6%
17	CQ	105	10% 69% 24% 6%
18	AR	88	3% 50% 22% 6% 23%
18	CR	88	8% 49% 25% 23%
19	AS	93	16% 61% 22% 6% 11%
19	CS	93	40% 56% 25% 9% 11%
20	AT	106	12% 58% 27% 5% 9%
20	CT	106	17% 59% 25% 6% 9%
21	AU	27	30% 52% 33% 15%
21	CU	27	30% 56% 26% 15%
22	AV	24	4% 46% 46%
22	CV	24	12% 33% 17% 46%
23	AW	76	16% 28% 53% 16%
23	AY	76	26% 26% 34% 36%
23	CW	76	18% 28% 38% 26% 5%
23	CY	76	22% 28% 33% 32%
24	AX	77	5% 62% 25% 12%
24	CX	77	56% 27% 16%
25	BA	2915	6% 65% 27% 7%
25	DA	2915	4% 57% 31% 8%

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Mol	Chain	Length	Quality of chain
26	BB	121	 % 71% 23% 5% .
26	DB	121	 2% 47% 43% 9% .
27	BD	276	 % 75% 22% .
27	DD	276	 % 75% 22% ..
28	BE	206	 % 72% 25% ..
28	DE	206	 3% 69% 22% 7% ..
29	BF	210	 3% 75% 20% . .
29	DF	210	 2% 63% 29% . .
30	BG	182	 10% 73% 22% . . .
30	DG	182	 16% 55% 35% 8% ..
31	BH	180	 9% 74% 21% . .
31	DH	180	 28% 58% 33% 6% .
32	BI	148	 7% 61% 30% 8% .
32	DI	148	 9% 58% 35% 5% .
33	BN	140	 3% 80% 16% .
33	DN	140	 4% 72% 25% .
34	BO	122	 % 74% 25% .
34	DO	122	 % 75% 24% .
35	BP	150	 6% 69% 25% 5% .
35	DP	150	 3% 65% 26% 7% ..
36	BQ	141	 3% 74% 23% .
36	DQ	141	 6% 69% 27% .
37	BR	118	 % 65% 26% 8%
37	DR	118	 % 64% 31% 5%
38	BS	112	 4% 71% 23% . .

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Mol	Chain	Length	Quality of chain
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	
47	D1	98	
48	B2	72	
48	D2	72	
49	B3	60	
49	D3	60	
50	B4	71	
50	D4	71	

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Mol	Chain	Length	Quality of chain
51	B5	60	<p>2% 85% 10% . .</p>
51	D5	60	<p>73% 22% . .</p>
52	B6	54	<p>65% 30% . .</p>
52	D6	54	<p>4% 70% 24% . .</p>
53	B7	49	<p>6% 63% 31% . .</p>
53	D7	49	<p>4% 73% 16% 6% . .</p>
54	B8	65	<p>57% 35% 6% .</p>
54	D8	65	<p>3% 62% 32% 5% .</p>
55	B9	37	<p>84% 14% .</p>
55	D9	37	<p>11% 70% 27% .</p>

2 Entry composition [i](#)

There are 61 unique types of molecules in this entry. The entry contains 298643 atoms, of which 0 are hydrogens and 0 are deuteriums.

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1497	Total 32185	C 14324	N 5967	O 10397	P 1497	0	0	0
1	CA	1503	Total 32312	C 14381	N 5990	O 10438	P 1503	0	0	0

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AC	206	Total 1548	C 973	N 301	O 273	S 1	0	0	0
3	CC	206	Total 1542	C 968	N 300	O 273	S 1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	AD	208	Total 1655	C 1038	N 326	O 284	S 7	0	0	0
4	CD	208	Total 1674	C 1050	N 333	O 284	S 7	0	0	0

- 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
			810	514	144	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
			Total	C	N	O			
10	CJ	96	714	445	138	131	0	0	0

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

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

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	AO	88	728	456	144	126	2	0	0	0
15	CO	88	728	456	144	126	2	0	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
			1592	713	285	518	74	2			
23	AY	74	Total	C	N	O	P	S	0	0	0
			1585	707	285	518	74	1			
23	CW	72	Total	C	N	O	P	S	0	0	0
			1544	690	278	502	72	2			
23	CY	73	Total	C	N	O	P	S	0	0	0
			1565	698	283	510	73	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	2871	Total	C	N	O	P	0	0	0
			61844	27523	11572	19878	2871			
25	DA	2800	Total	C	N	O	P	0	0	0
			60314	26840	11284	19390	2800			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
26	BB	120	2577	1146	476	835	120	0	0	0
26	DB	120	2575	1146	476	833	120	0	0	0

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

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

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

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
30	BG	181	1429	916	256	253	4	0	0	0
30	DG	181	1428	913	258	253	4	0	0	0

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
32	BI	146	1097	701	191	204	1	0	0	0
32	DI	146	1064	681	186	196	1	0	0	0

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

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

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

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

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

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

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

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

- 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
			873	550	174	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	154	Total	C	N	O	S	0	0	0
			1240	795	222	220	3			
45	DZ	160	Total	C	N	O	S	0	0	0
			1271	814	228	227	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
			552	349	99	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
			Total	C	N	O	S			
53	B7	48	Total 418	C 257	N 104	O 55	S 2	0	0	0
53	D7	48	Total 418	C 257	N 104	O 55	S 2	0	0	0

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

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

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

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

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

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	AA	233	Total Mg 233 233	0	0
56	AB	2	Total Mg 2 2	0	0
56	AD	1	Total Mg 1 1	0	0
56	AE	2	Total Mg 2 2	0	0
56	AF	1	Total Mg 1 1	0	0
56	AH	1	Total Mg 1 1	0	0
56	AK	1	Total Mg 1 1	0	0
56	AL	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	AM	1	Total 1	Mg 1	0	0
56	AN	1	Total 1	Mg 1	0	0
56	AR	1	Total 1	Mg 1	0	0
56	AT	1	Total 1	Mg 1	0	0
56	AW	4	Total 4	Mg 4	0	0
56	AX	13	Total 13	Mg 13	0	0
56	AY	2	Total 2	Mg 2	0	0
56	BA	906	Total 906	Mg 906	0	0
56	BB	30	Total 30	Mg 30	0	0
56	BD	13	Total 13	Mg 13	0	0
56	BE	12	Total 12	Mg 12	0	0
56	BF	15	Total 15	Mg 15	0	0
56	BG	6	Total 6	Mg 6	0	0
56	BH	1	Total 1	Mg 1	0	0
56	BI	1	Total 1	Mg 1	0	0
56	BN	4	Total 4	Mg 4	0	0
56	BO	5	Total 5	Mg 5	0	0
56	BP	6	Total 6	Mg 6	0	0
56	BQ	7	Total 7	Mg 7	0	0
56	BR	3	Total 3	Mg 3	0	0
56	BS	3	Total 3	Mg 3	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	BT	2	Total 2	Mg 2	0	0
56	BU	10	Total 10	Mg 10	0	0
56	BV	5	Total 5	Mg 5	0	0
56	BW	5	Total 5	Mg 5	0	0
56	BX	6	Total 6	Mg 6	0	0
56	BY	3	Total 3	Mg 3	0	0
56	BZ	3	Total 3	Mg 3	0	0
56	B0	7	Total 7	Mg 7	0	0
56	B1	2	Total 2	Mg 2	0	0
56	B2	2	Total 2	Mg 2	0	0
56	B3	2	Total 2	Mg 2	0	0
56	B4	1	Total 1	Mg 1	0	0
56	B5	4	Total 4	Mg 4	0	0
56	B6	2	Total 2	Mg 2	0	0
56	B7	3	Total 3	Mg 3	0	0
56	B8	3	Total 3	Mg 3	0	0
56	B9	1	Total 1	Mg 1	0	0
56	CA	201	Total 201	Mg 201	0	0
56	CD	2	Total 2	Mg 2	0	0
56	CE	1	Total 1	Mg 1	0	0
56	CF	2	Total 2	Mg 2	0	0

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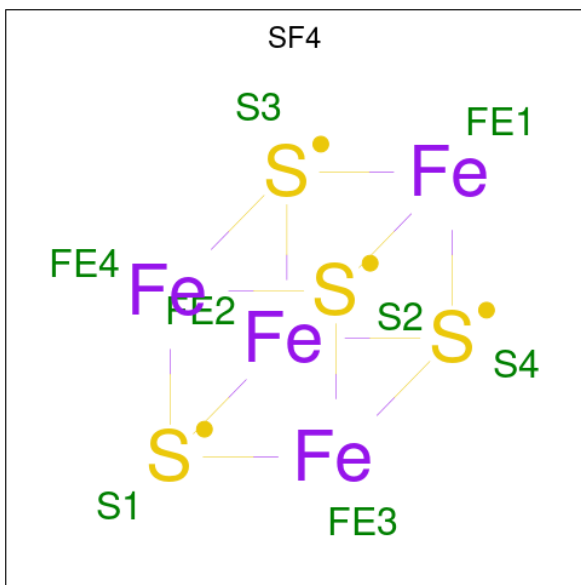
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	CG	1	Total Mg 1 1	0	0
56	CJ	2	Total Mg 2 2	0	0
56	CK	1	Total Mg 1 1	0	0
56	CL	2	Total Mg 2 2	0	0
56	CP	1	Total Mg 1 1	0	0
56	CQ	2	Total Mg 2 2	0	0
56	CR	1	Total Mg 1 1	0	0
56	CT	1	Total Mg 1 1	0	0
56	CV	1	Total Mg 1 1	0	0
56	CW	4	Total Mg 4 4	0	0
56	CX	6	Total Mg 6 6	0	0
56	DA	673	Total Mg 673 673	0	0
56	DB	21	Total Mg 21 21	0	0
56	DD	6	Total Mg 6 6	0	0
56	DE	7	Total Mg 7 7	0	0
56	DF	7	Total Mg 7 7	0	0
56	DG	1	Total Mg 1 1	0	0
56	DO	1	Total Mg 1 1	0	0
56	DP	1	Total Mg 1 1	0	0
56	DQ	3	Total Mg 3 3	0	0
56	DR	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
57	AA	1	Total	C	N	O	0	0
			30	20	3	7		
57	CA	1	Total	C	N	O	0	0
			30	20	3	7		

- Molecule 58 is IRON/SULFUR CLUSTER (CCD ID: SF4) (formula: Fe₄S₄).



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 (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
59	AN	1	Total	Zn	0	0
			1	1		
59	BY	1	Total	Zn	0	0
			1	1		
59	B4	1	Total	Zn	0	0
			1	1		
59	B5	1	Total	Zn	0	0
			1	1		
59	B6	1	Total	Zn	0	0
			1	1		
59	B9	1	Total	Zn	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
59	CN	1	Total Zn 1 1	0	0
59	DY	1	Total Zn 1 1	0	0
59	D4	1	Total Zn 1 1	0	0
59	D5	1	Total Zn 1 1	0	0
59	D6	1	Total Zn 1 1	0	0
59	D9	1	Total Zn 1 1	0	0

- Molecule 60 is POTASSIUM ION (CCD ID: K) (formula: K).

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

- Molecule 61 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	AA	264	Total O 264 264	0	0
61	AB	1	Total O 1 1	0	0
61	AE	2	Total O 2 2	0	0
61	AJ	1	Total O 1 1	0	0
61	AL	4	Total O 4 4	0	0
61	AM	1	Total O 1 1	0	0
61	AQ	1	Total O 1 1	0	0
61	AV	4	Total O 4 4	0	0
61	AW	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	AX	11	Total O 11 11	0	0
61	AY	1	Total O 1 1	0	0
61	BA	1486	Total O 1486 1486	0	0
61	BB	43	Total O 43 43	0	0
61	BD	19	Total O 19 19	0	0
61	BE	20	Total O 20 20	0	0
61	BF	14	Total O 14 14	0	0
61	BG	5	Total O 5 5	0	0
61	BH	1	Total O 1 1	0	0
61	BI	2	Total O 2 2	0	0
61	BN	2	Total O 2 2	0	0
61	BO	7	Total O 7 7	0	0
61	BP	19	Total O 19 19	0	0
61	BQ	5	Total O 5 5	0	0
61	BR	5	Total O 5 5	0	0
61	BS	5	Total O 5 5	0	0
61	BT	5	Total O 5 5	0	0
61	BU	8	Total O 8 8	0	0
61	BV	6	Total O 6 6	0	0
61	BW	1	Total O 1 1	0	0
61	BX	2	Total O 2 2	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
61	BY	3	Total O 3 3	0	0
61	BZ	1	Total O 1 1	0	0
61	B0	8	Total O 8 8	0	0
61	B1	3	Total O 3 3	0	0
61	B2	4	Total O 4 4	0	0
61	B3	3	Total O 3 3	0	0
61	B4	1	Total O 1 1	0	0
61	B5	4	Total O 4 4	0	0
61	B6	1	Total O 1 1	0	0
61	B7	4	Total O 4 4	0	0
61	B8	8	Total O 8 8	0	0
61	CA	204	Total O 204 204	0	0
61	CD	1	Total O 1 1	0	0
61	CG	1	Total O 1 1	0	0
61	CI	1	Total O 1 1	0	0
61	CJ	4	Total O 4 4	0	0
61	CL	4	Total O 4 4	0	0
61	CO	1	Total O 1 1	0	0
61	CP	1	Total O 1 1	0	0
61	CR	1	Total O 1 1	0	0
61	CT	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
61	CW	2	Total 2	O 2	0	0
61	CX	6	Total 6	O 6	0	0
61	DA	1039	Total 1039	O 1039	0	0
61	DB	10	Total 10	O 10	0	0
61	DD	17	Total 17	O 17	0	0
61	DE	8	Total 8	O 8	0	0
61	DF	6	Total 6	O 6	0	0
61	DI	2	Total 2	O 2	0	0
61	DN	1	Total 1	O 1	0	0
61	DO	3	Total 3	O 3	0	0
61	DP	12	Total 12	O 12	0	0
61	DQ	1	Total 1	O 1	0	0
61	DR	3	Total 3	O 3	0	0
61	DT	3	Total 3	O 3	0	0
61	DU	1	Total 1	O 1	0	0
61	DV	1	Total 1	O 1	0	0
61	DW	2	Total 2	O 2	0	0
61	DX	2	Total 2	O 2	0	0
61	DY	1	Total 1	O 1	0	0
61	DZ	2	Total 2	O 2	0	0
61	D0	4	Total 4	O 4	0	0

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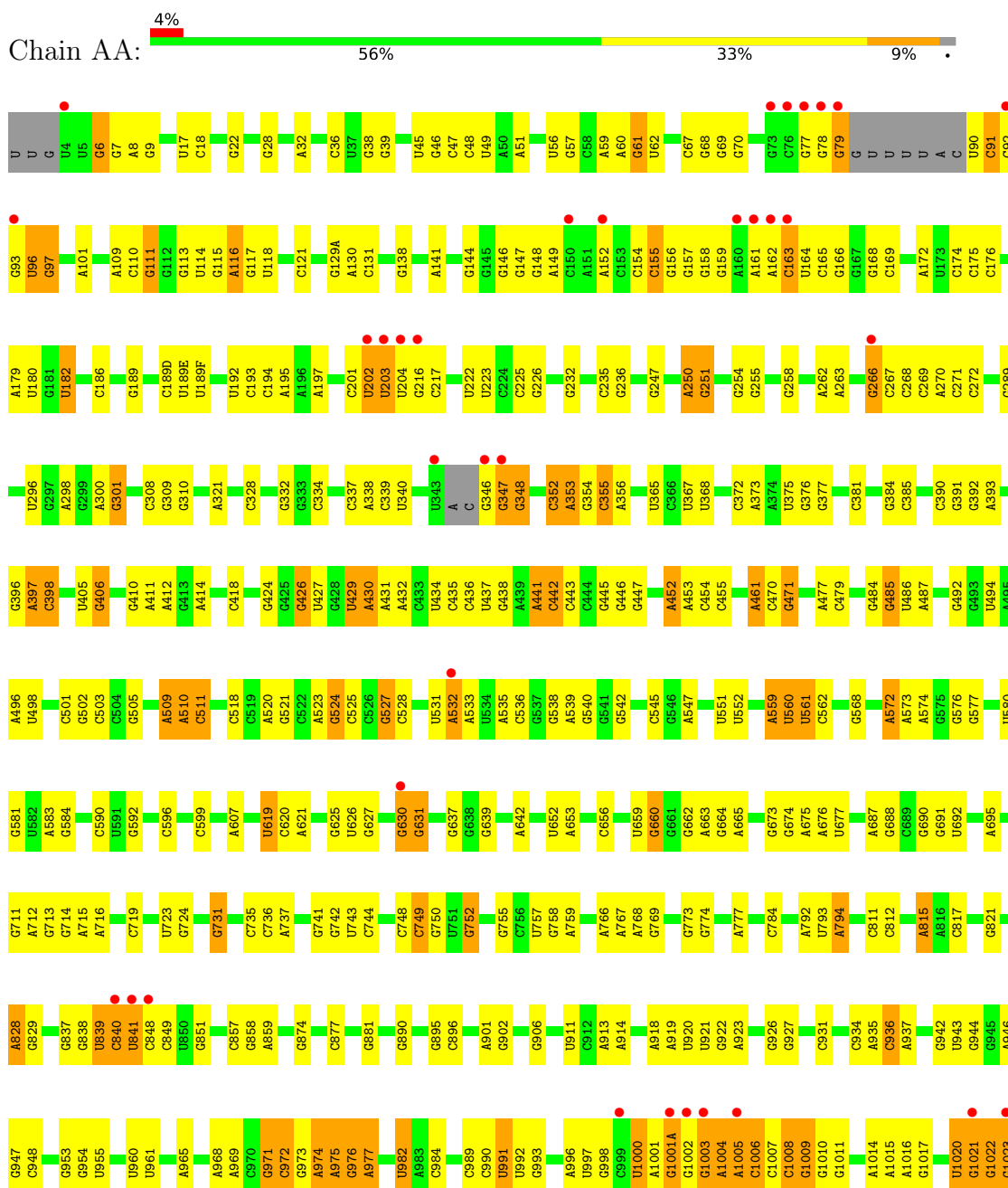
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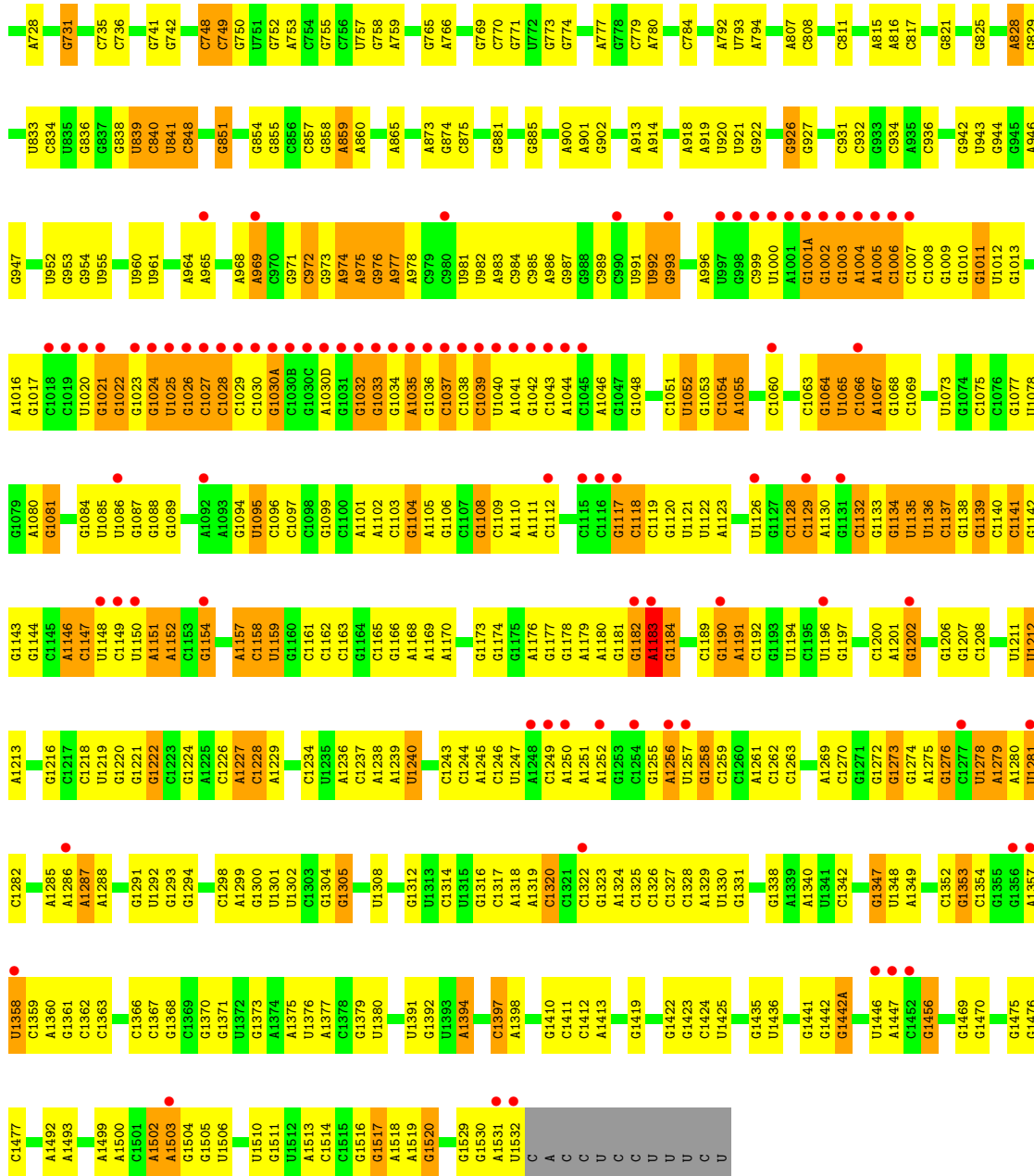
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61	D3	1	Total O 1 1	0	0
61	D5	2	Total O 2 2	0	0
61	D7	5	Total O 5 5	0	0
61	D8	5	Total O 5 5	0	0
61	D9	1	Total O 1 1	0	0

3 Residue-property plots

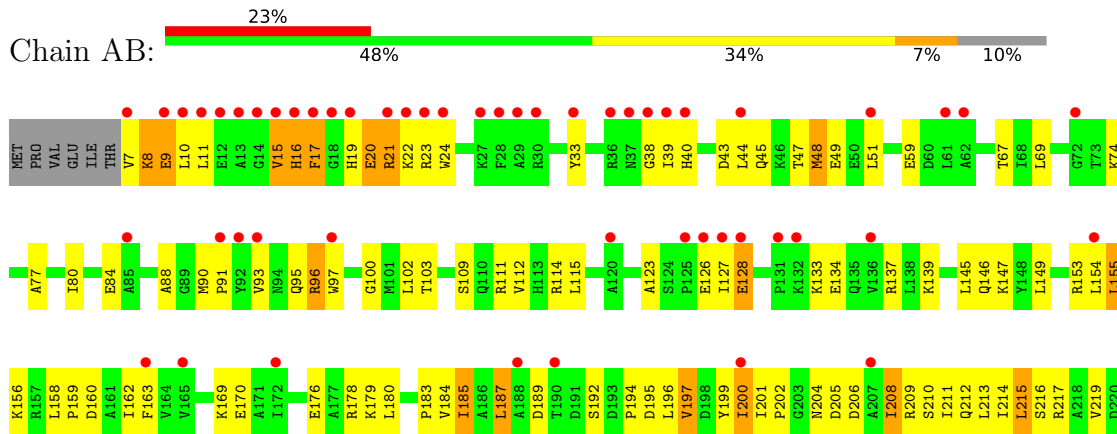
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density.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

• Molecule 1: 16S Ribosomal RNA



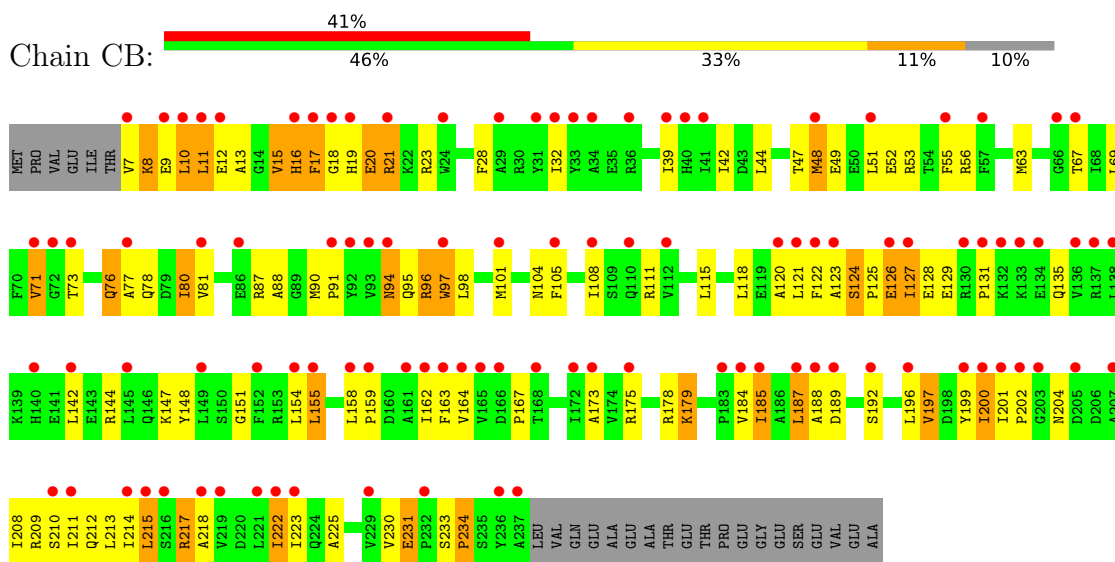


● Molecule 2: 30S Ribosomal Protein S2

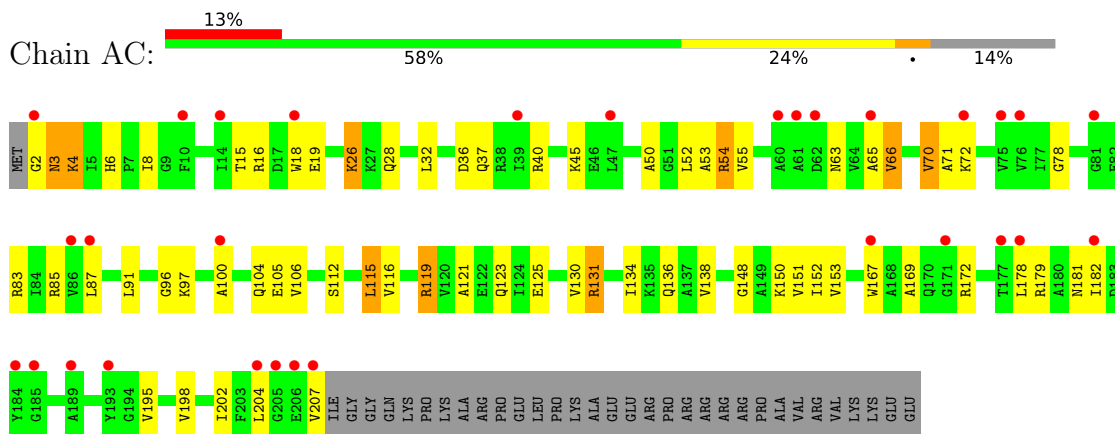




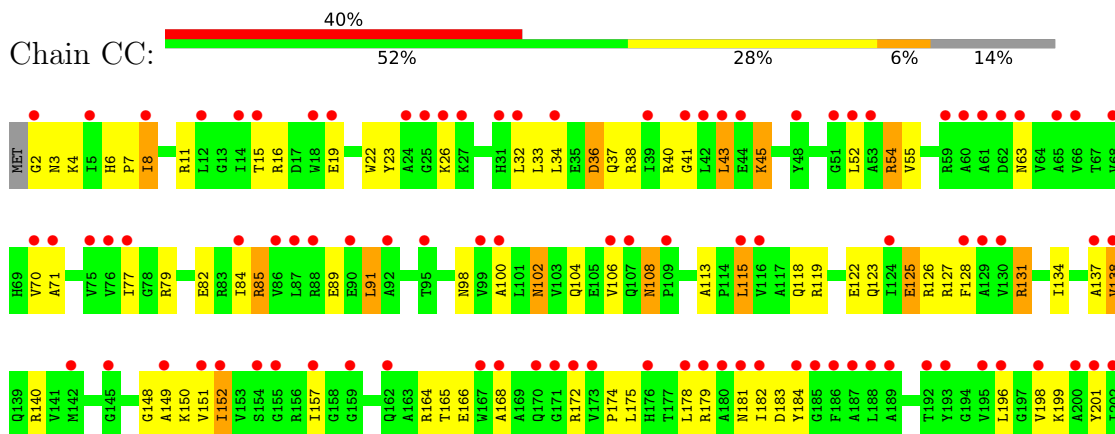
- Molecule 2: 30S Ribosomal Protein S2

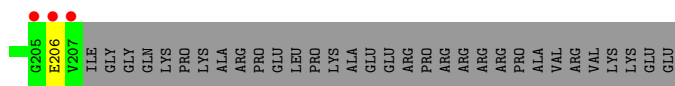


- Molecule 3: 30S Ribosomal Protein S3

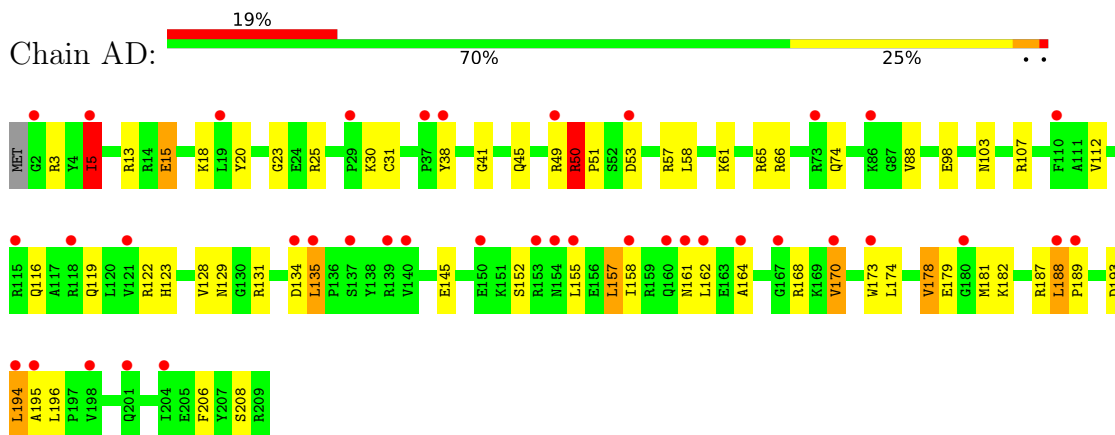


- Molecule 3: 30S Ribosomal Protein S3

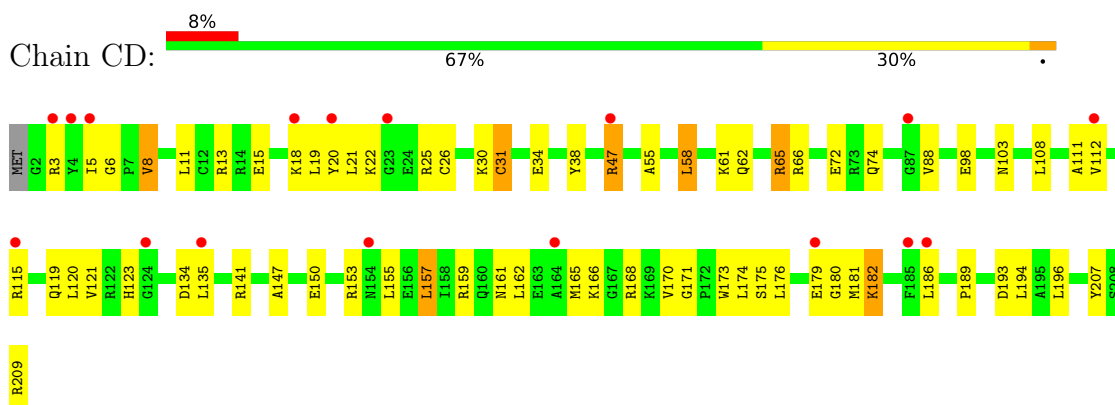




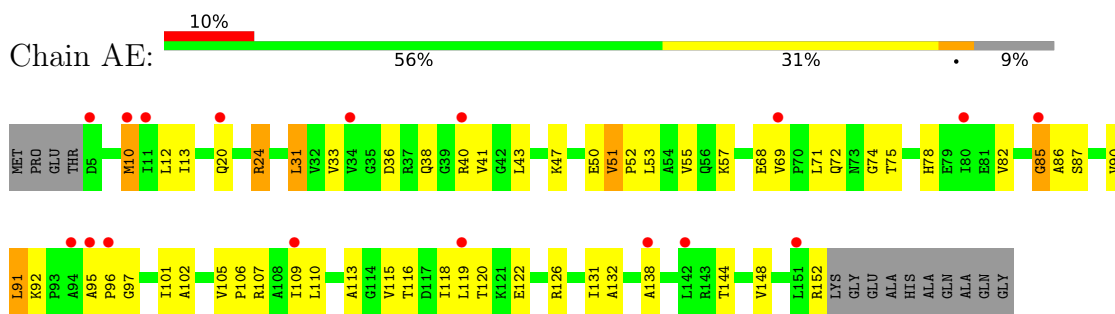
• Molecule 4: 30S Ribosomal Protein S4



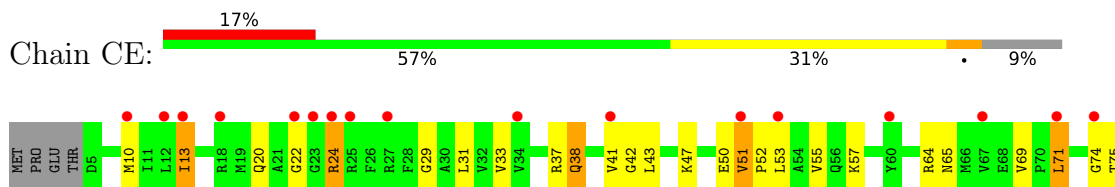
• Molecule 4: 30S Ribosomal Protein S4

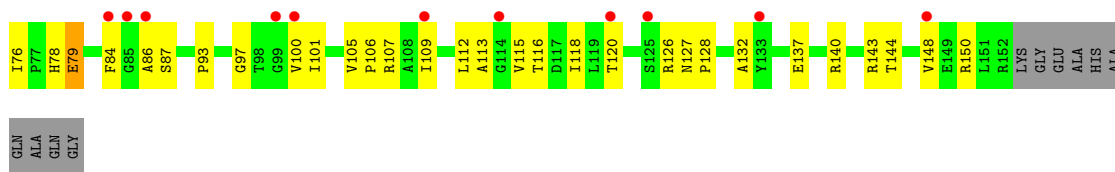


• Molecule 5: 30S Ribosomal Protein S5



• Molecule 5: 30S Ribosomal Protein S5





- Molecule 6: 30S Ribosomal Protein S6

Chain AF: 72% 24% ..



- Molecule 6: 30S Ribosomal Protein S6

Chain CF: 75% 22% ..



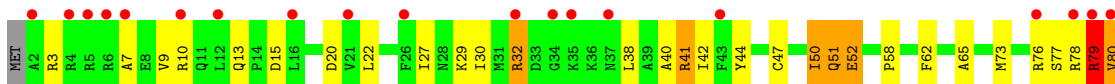
- Molecule 7: 30S Ribosomal Protein S7

Chain AG: 73% 22% ..



- Molecule 7: 30S Ribosomal Protein S7

Chain CG: 65% 26% 7% ..



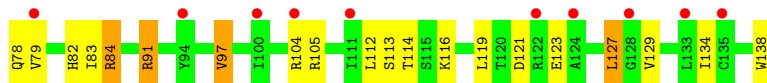
- Molecule 8: 30S Ribosomal Protein S8

Chain AH: 68% 28% ..

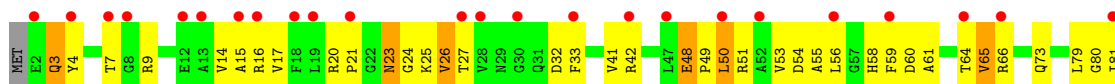




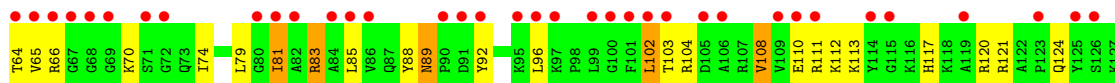
• Molecule 8: 30S Ribosomal Protein S8



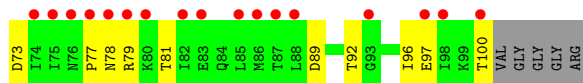
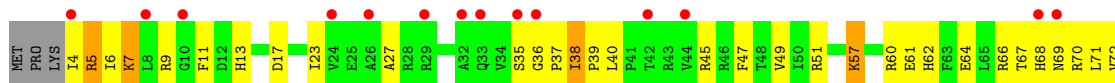
• Molecule 9: 30S Ribosomal Protein S9



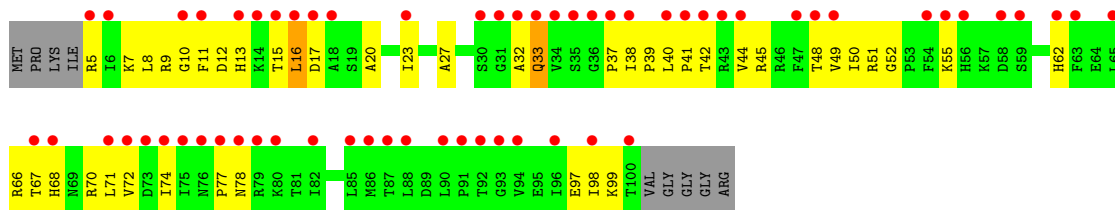
• Molecule 9: 30S Ribosomal Protein S9



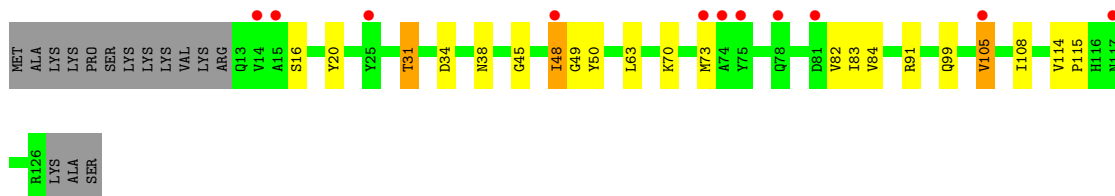
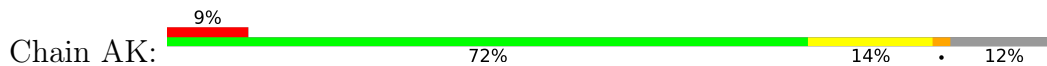
• Molecule 10: 30S Ribosomal Protein S10



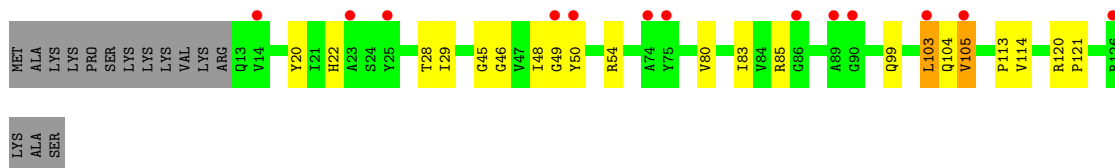
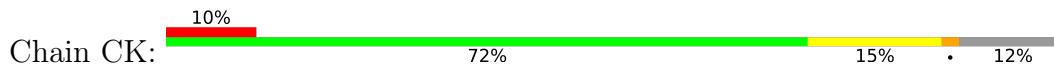
• Molecule 10: 30S Ribosomal Protein S10



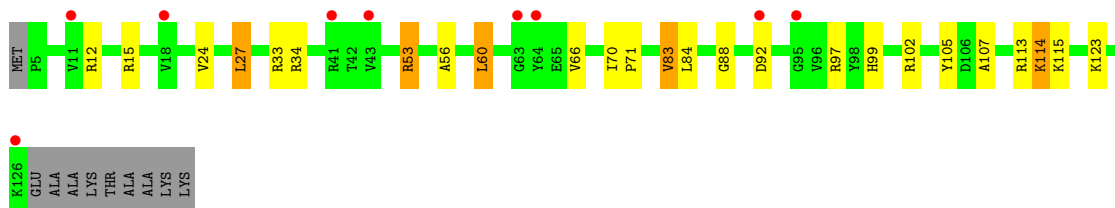
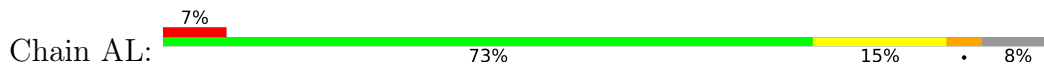
• Molecule 11: 30S Ribosomal Protein S11



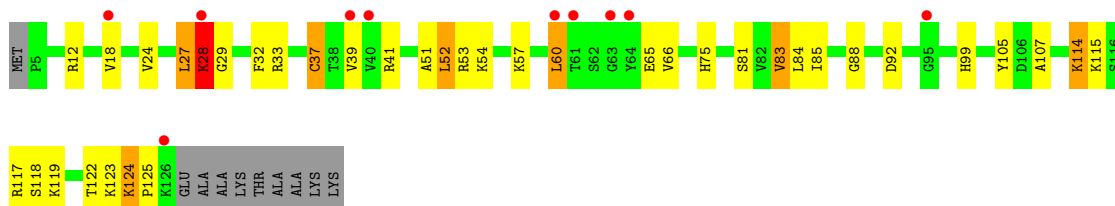
• Molecule 11: 30S Ribosomal Protein S11



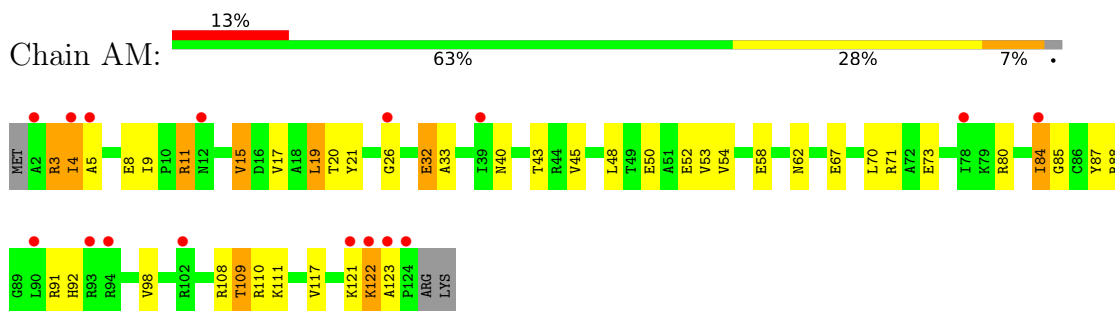
• Molecule 12: 30S Ribosomal Protein S12



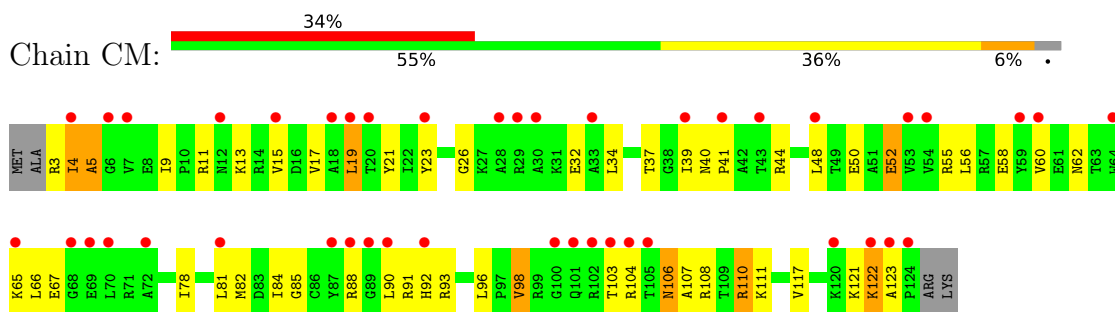
• Molecule 12: 30S Ribosomal Protein S12



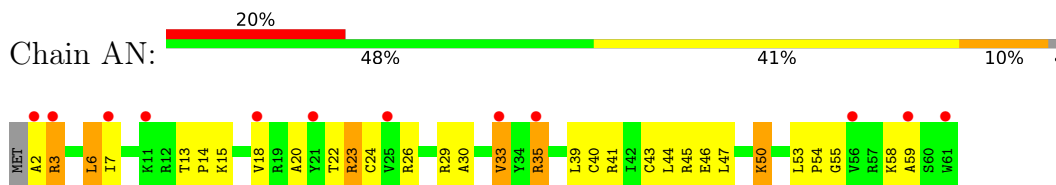
- Molecule 13: 30S Ribosomal Protein S13



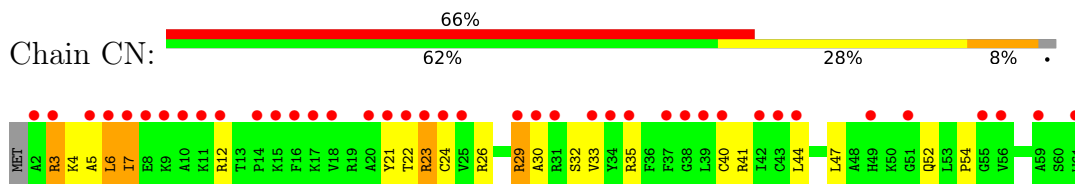
- Molecule 13: 30S Ribosomal Protein S13



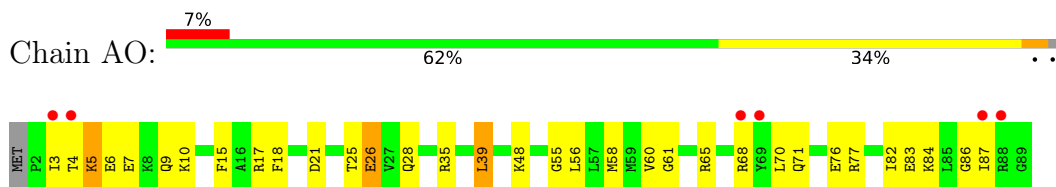
- Molecule 14: 30S Ribosomal Protein S14



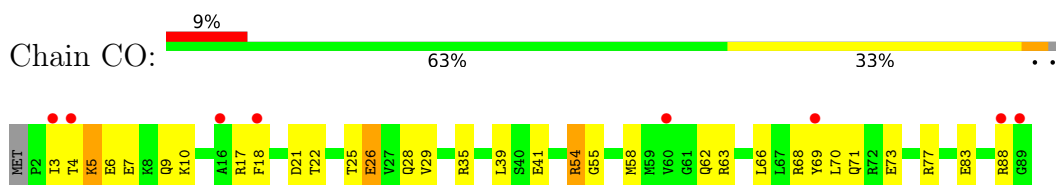
- Molecule 14: 30S Ribosomal Protein S14



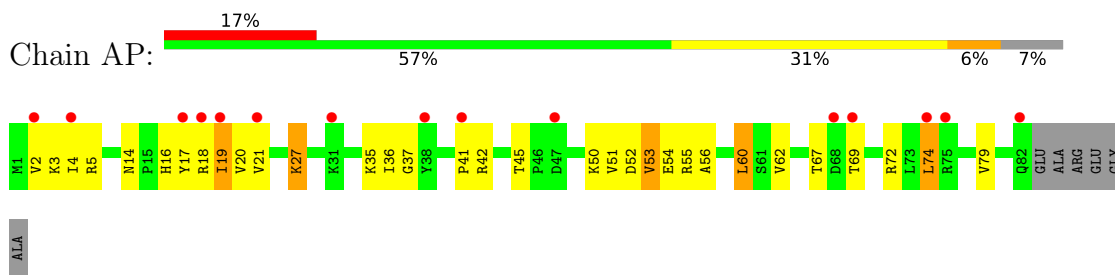
- Molecule 15: 30S Ribosomal Protein S15



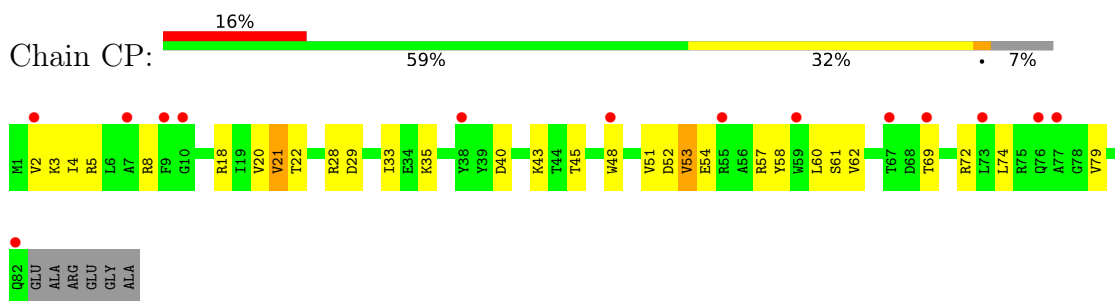
- Molecule 15: 30S Ribosomal Protein S15



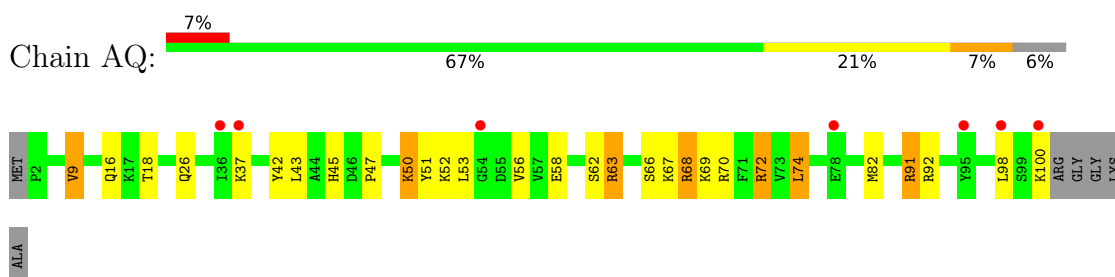
• Molecule 16: 30S Ribosomal Protein S16



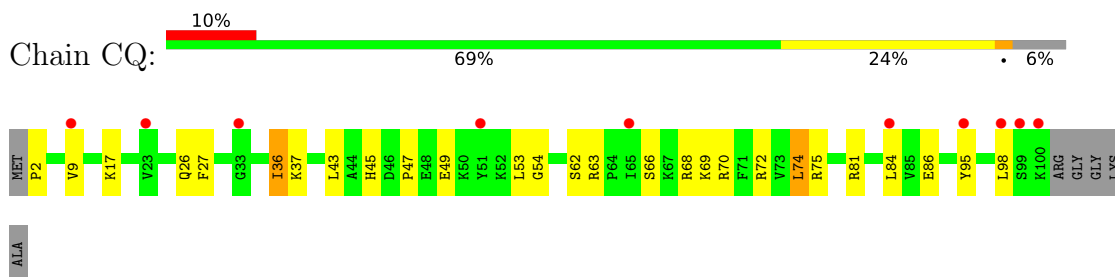
• Molecule 16: 30S Ribosomal Protein S16



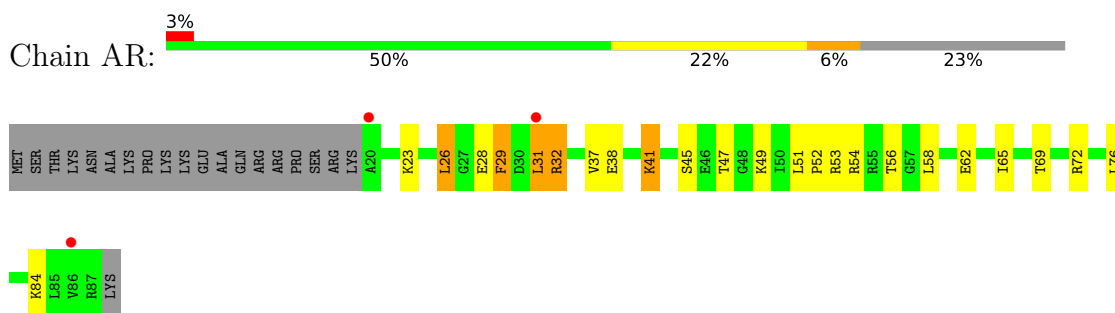
• Molecule 17: 30S Ribosomal Protein S17

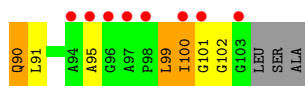


• Molecule 17: 30S Ribosomal Protein S17

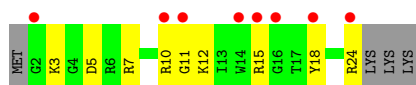


• Molecule 18: 30S Ribosomal Protein S18

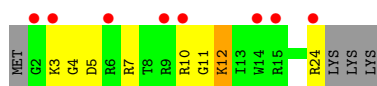




- Molecule 21: 30S Ribosomal Protein THX



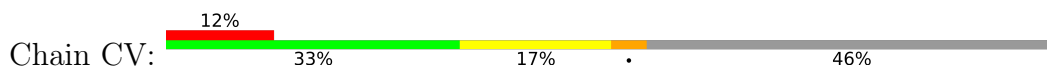
- Molecule 21: 30S Ribosomal Protein THX



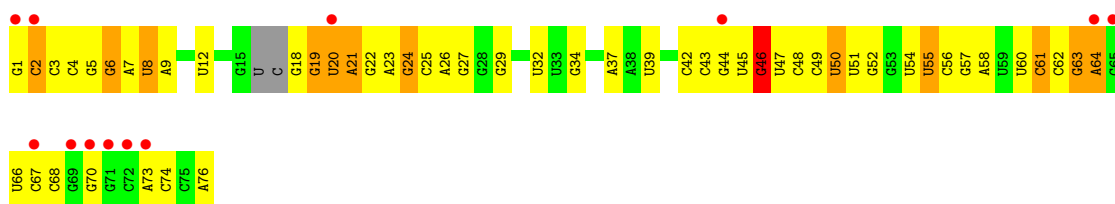
- Molecule 22: mRNA



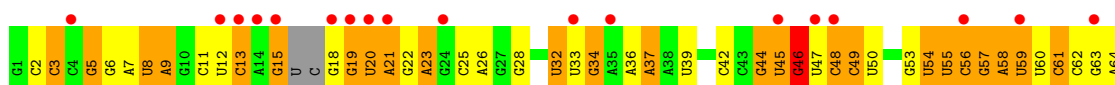
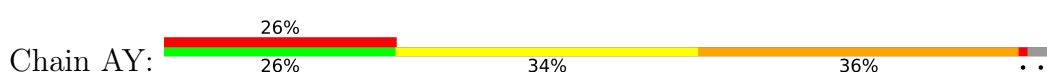
- Molecule 22: mRNA

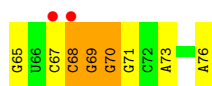


- Molecule 23: A/P-site tRNA

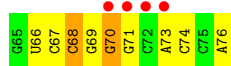
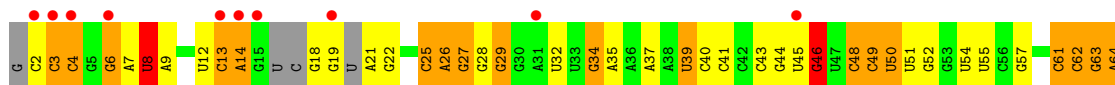


- Molecule 23: A/P-site tRNA

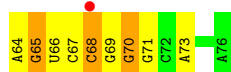
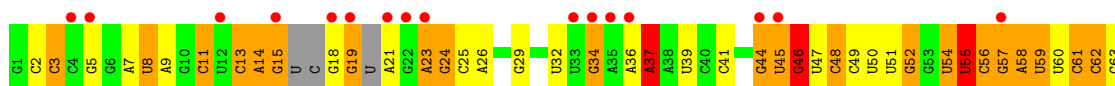
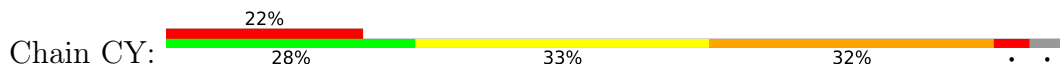




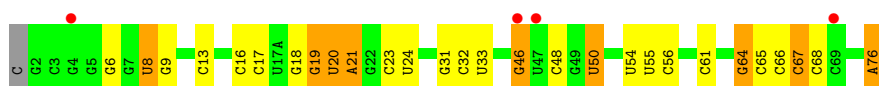
- Molecule 23: A/P-site tRNA



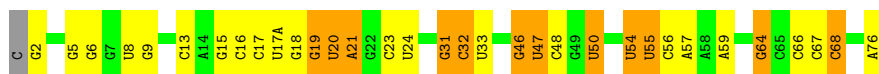
- Molecule 23: A/P-site tRNA



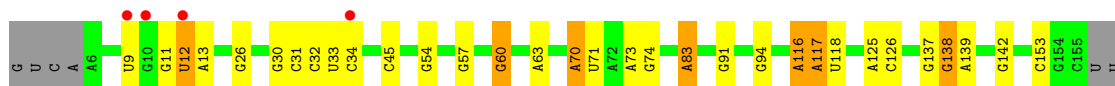
- Molecule 24: E-site tRNA

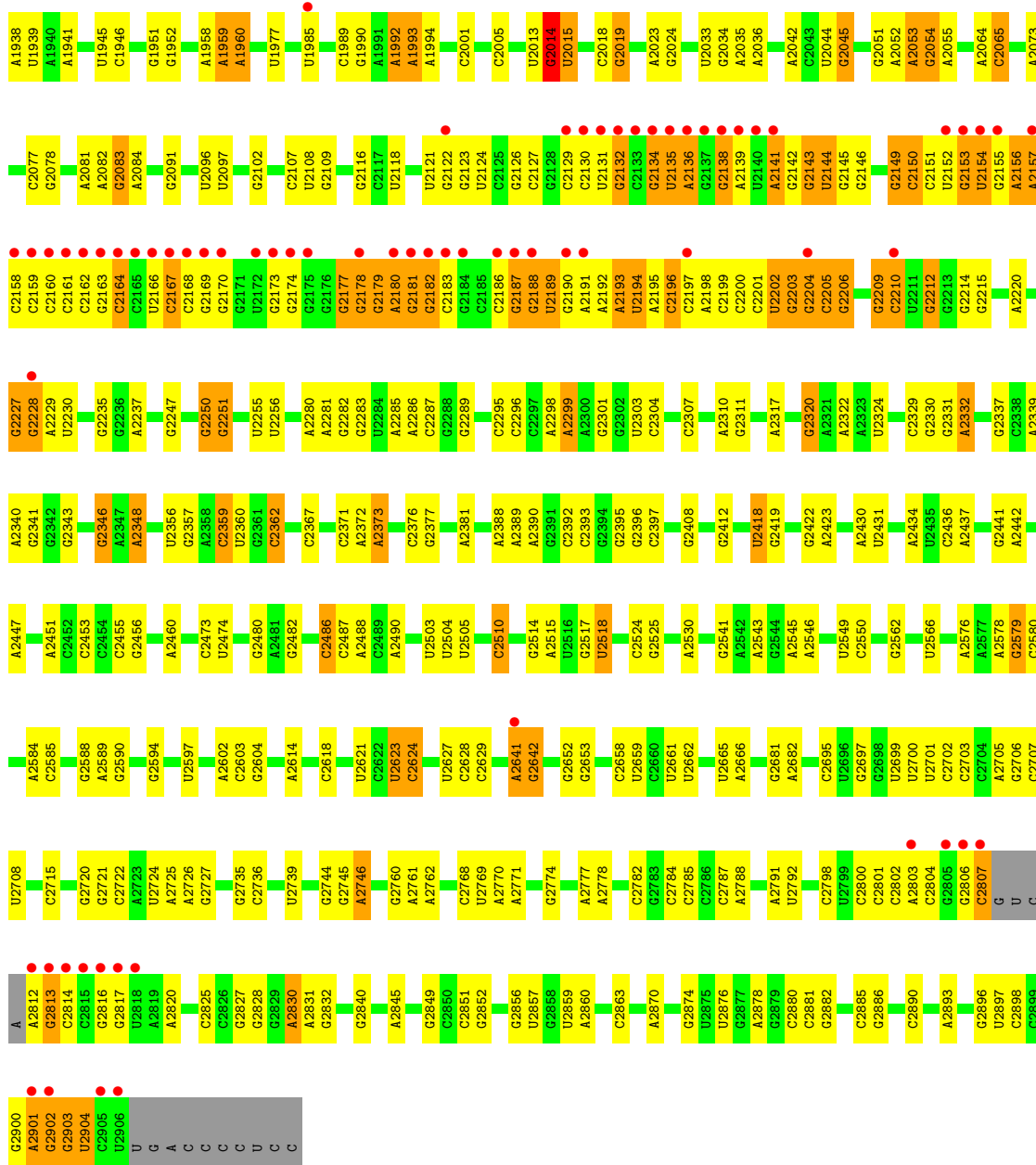


- Molecule 24: E-site tRNA

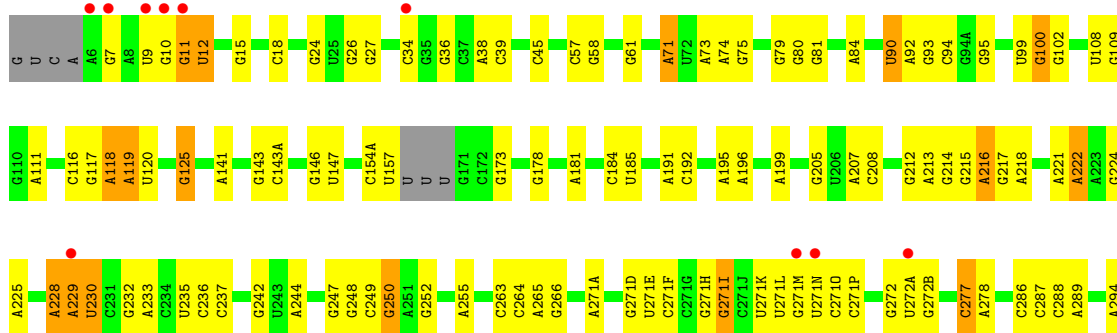


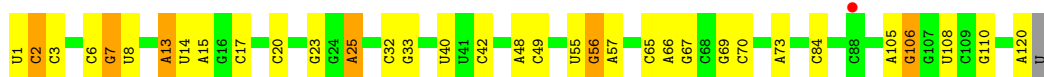
- Molecule 25: 23S Ribosomal RNA



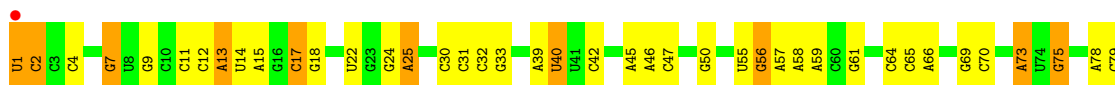


• Molecule 25: 23S Ribosomal RNA

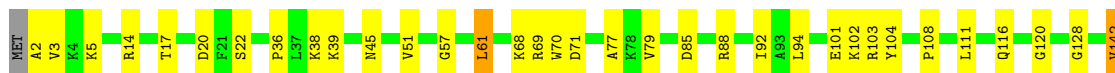
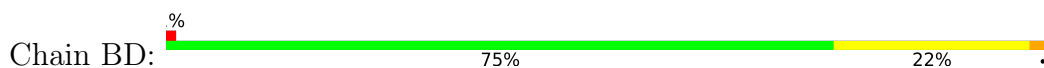




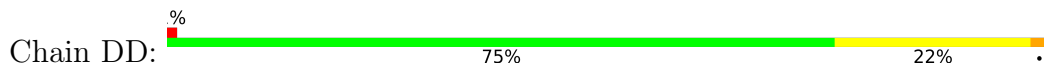
• Molecule 26: 5S Ribosomal RNA



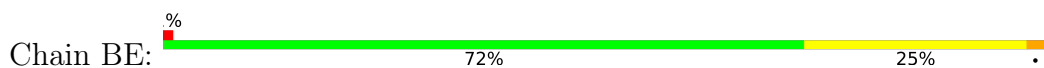
• Molecule 27: 50S Ribosomal Protein L2



• Molecule 27: 50S Ribosomal Protein L2

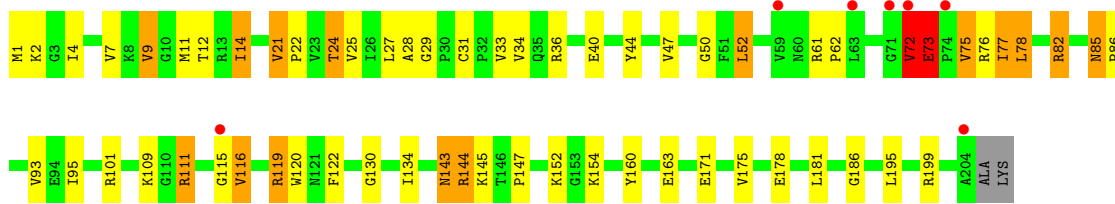


• Molecule 28: 50S Ribosomal Protein L3

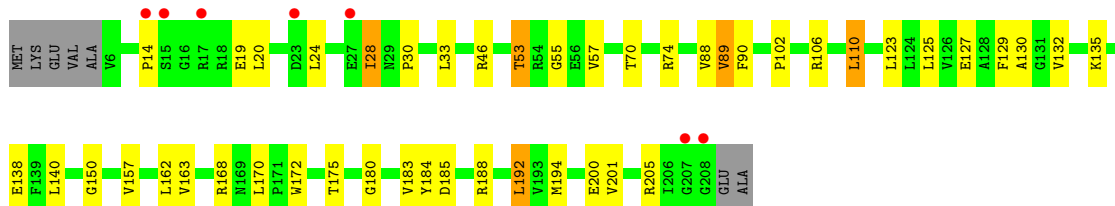
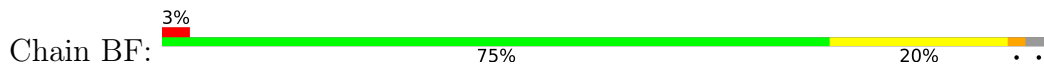


• Molecule 28: 50S Ribosomal Protein L3

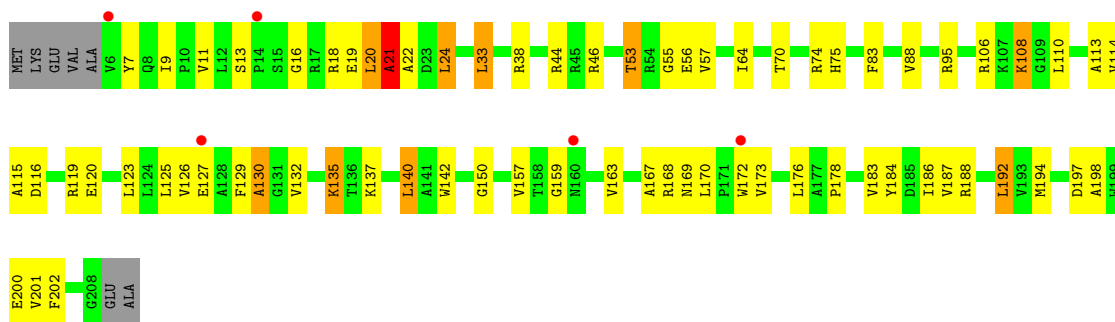




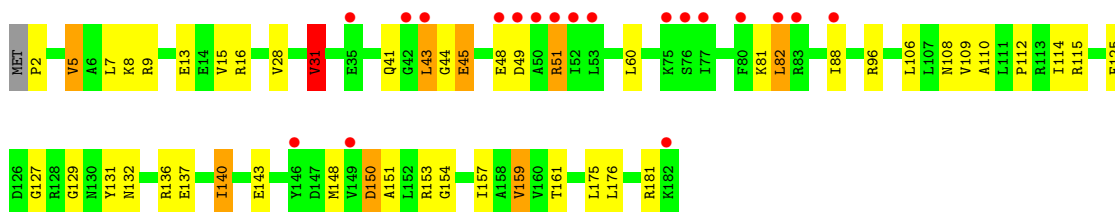
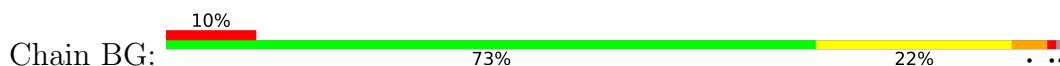
• Molecule 29: 50S Ribosomal Protein L4



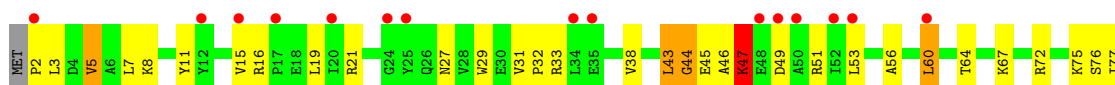
• Molecule 29: 50S Ribosomal Protein L4

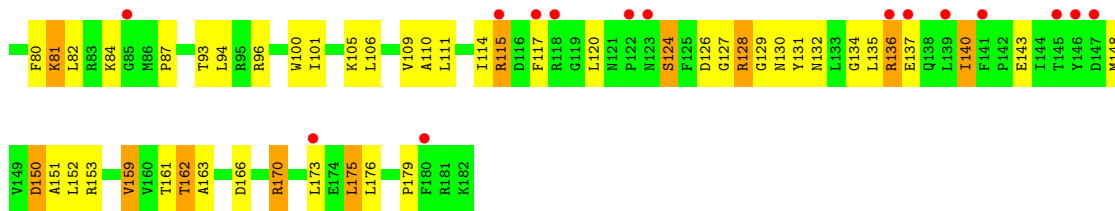


• Molecule 30: 50S Ribosomal Protein L5

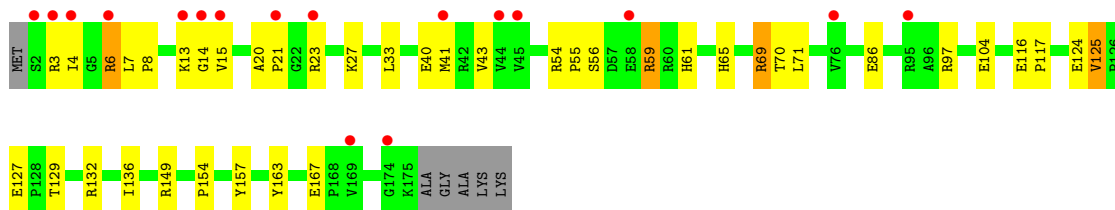
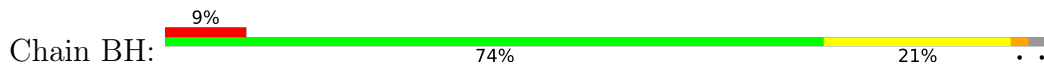


• Molecule 30: 50S Ribosomal Protein L5

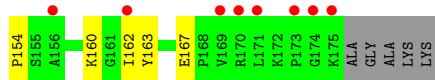
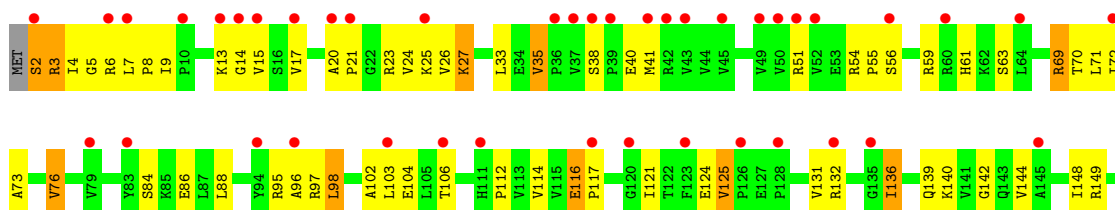




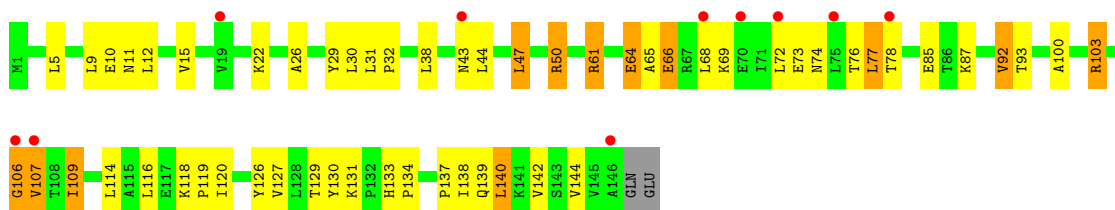
• Molecule 31: 50S Ribosomal Protein L6



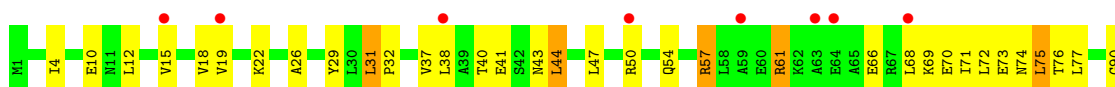
• Molecule 31: 50S Ribosomal Protein L6



• Molecule 32: 50S Ribosomal Protein L9

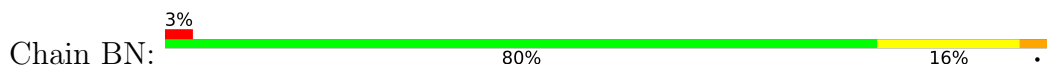


• Molecule 32: 50S Ribosomal Protein L9

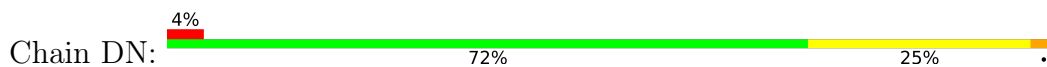




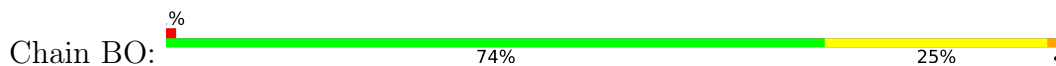
- Molecule 33: 50S Ribosomal Protein L13



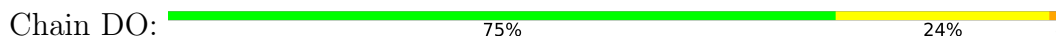
- Molecule 33: 50S Ribosomal Protein L13



- Molecule 34: 50S Ribosomal Protein L14



- Molecule 34: 50S Ribosomal Protein L14

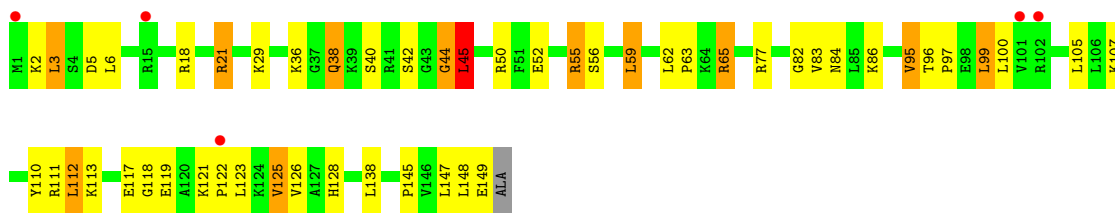


- Molecule 35: 50S Ribosomal Protein L15

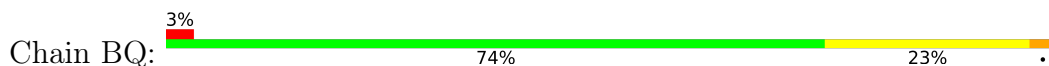


- Molecule 35: 50S Ribosomal Protein L15

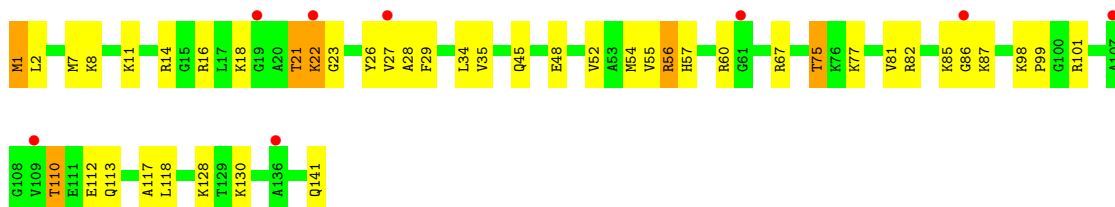




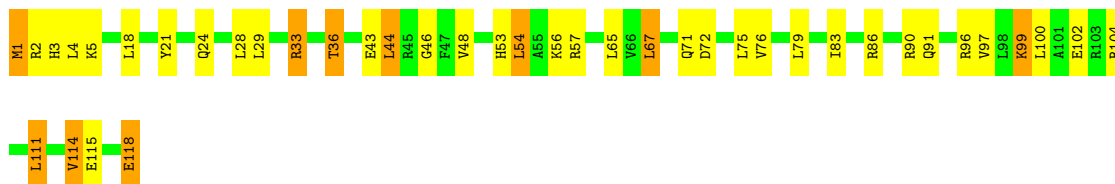
● Molecule 36: 50S Ribosomal Protein L16



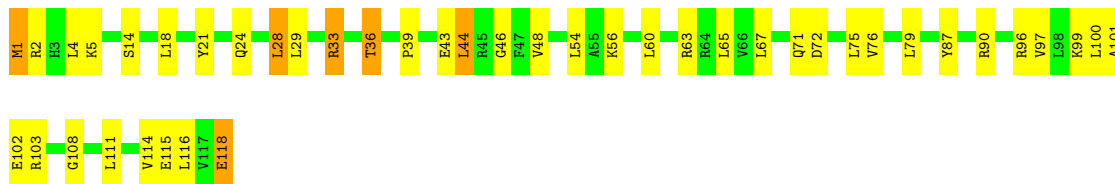
● Molecule 36: 50S Ribosomal Protein L16



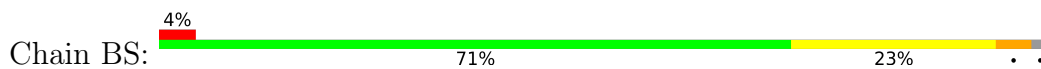
● Molecule 37: 50S Ribosomal Protein L17



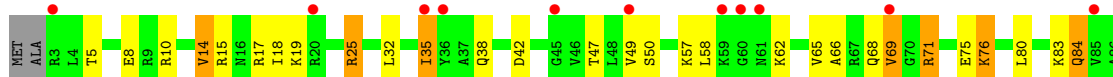
● Molecule 37: 50S Ribosomal Protein L17



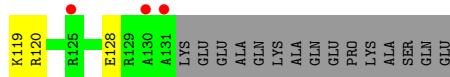
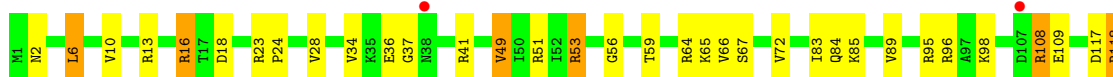
● Molecule 38: 50S Ribosomal Protein L18



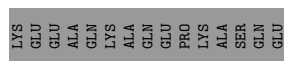
- Molecule 38: 50S Ribosomal Protein L18



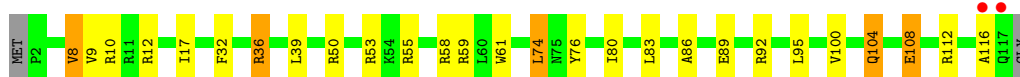
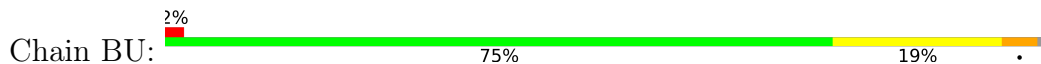
- Molecule 39: 50S Ribosomal Protein L19



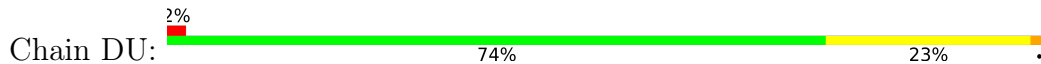
- Molecule 39: 50S Ribosomal Protein L19

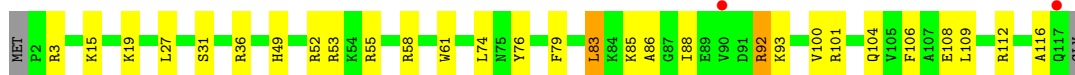


- Molecule 40: 50S Ribosomal Protein L20

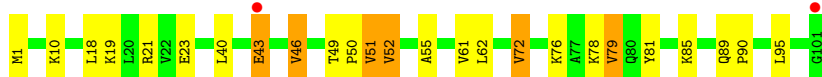
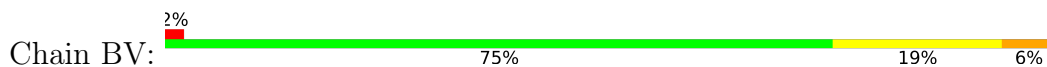


- Molecule 40: 50S Ribosomal Protein L20

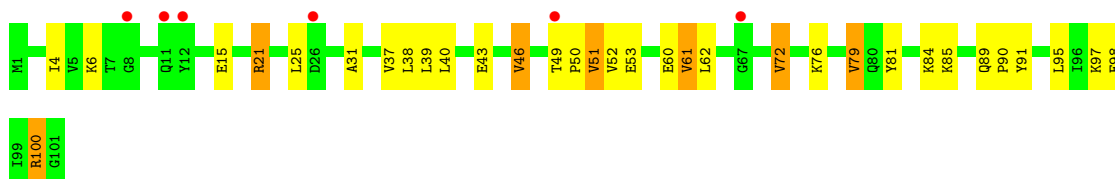




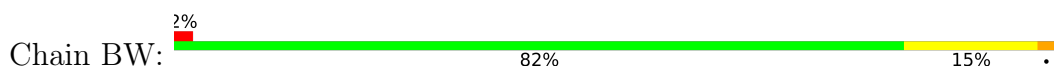
- Molecule 41: 50S Ribosomal Protein L21



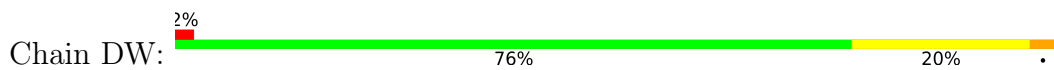
- Molecule 41: 50S Ribosomal Protein L21



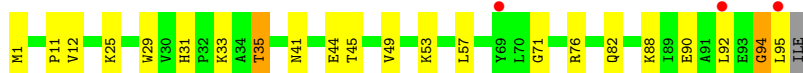
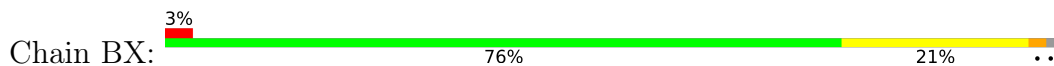
- Molecule 42: 50S Ribosomal Protein L22



- Molecule 42: 50S Ribosomal Protein L22



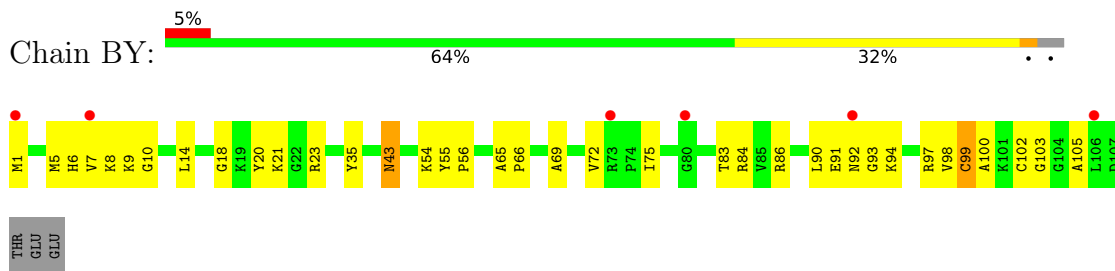
- Molecule 43: 50S Ribosomal Protein L23



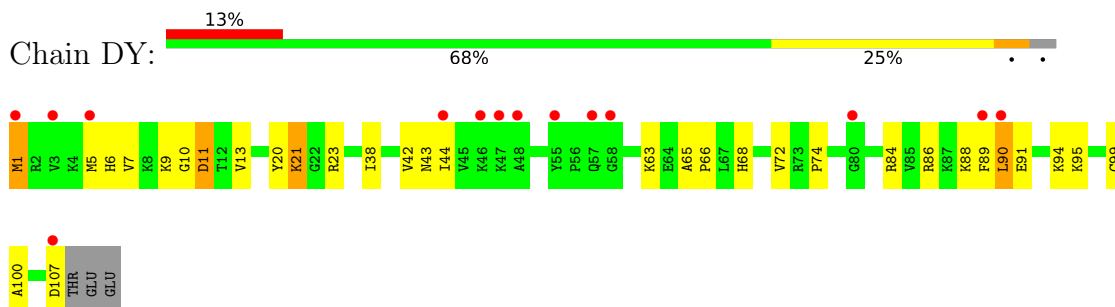
- Molecule 43: 50S Ribosomal Protein L23



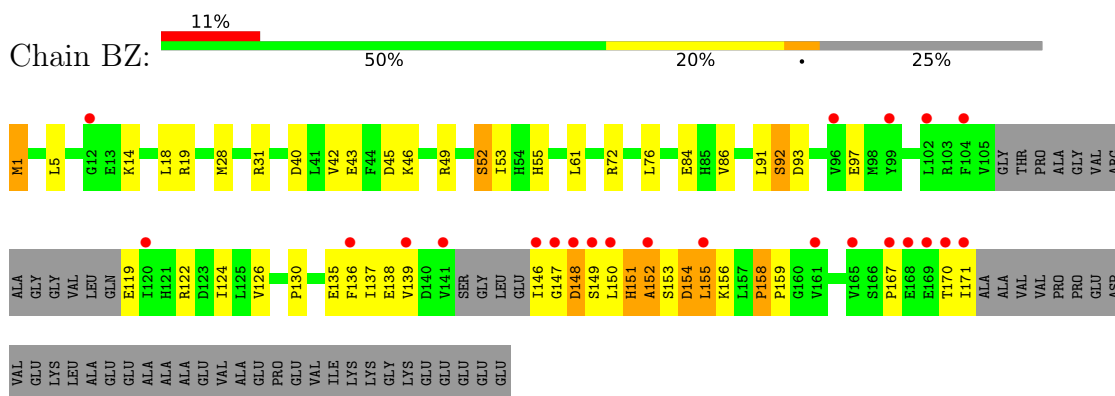
- Molecule 44: 50S Ribosomal Protein L24



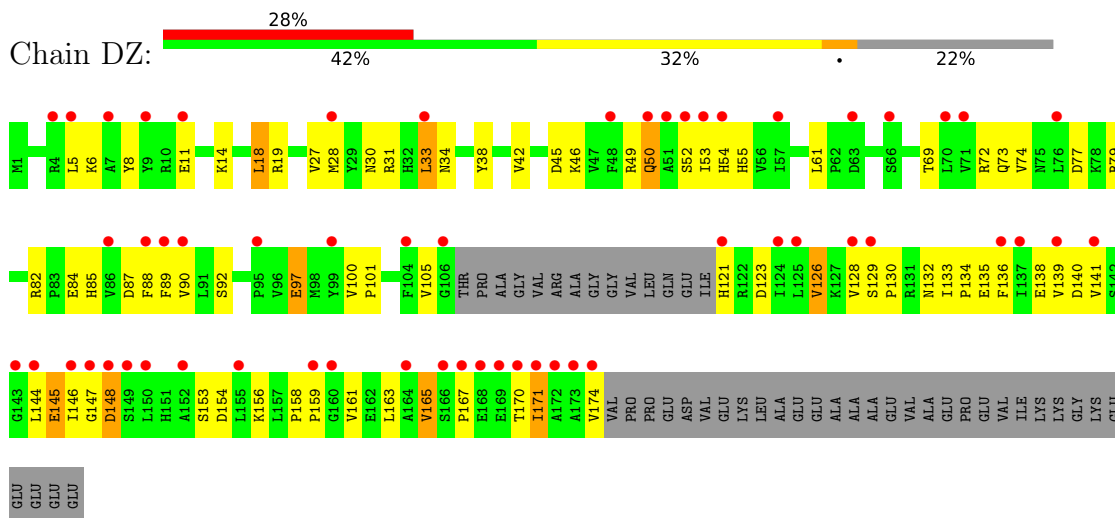
- Molecule 44: 50S Ribosomal Protein L24



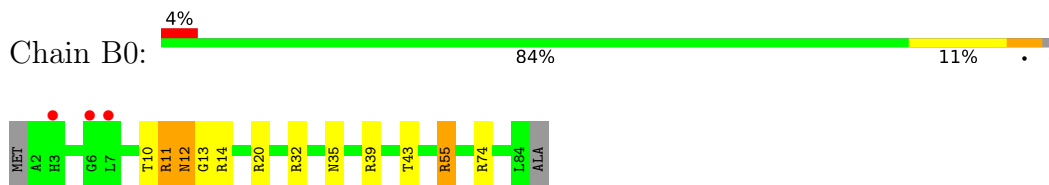
- Molecule 45: 50S Ribosomal Protein L25



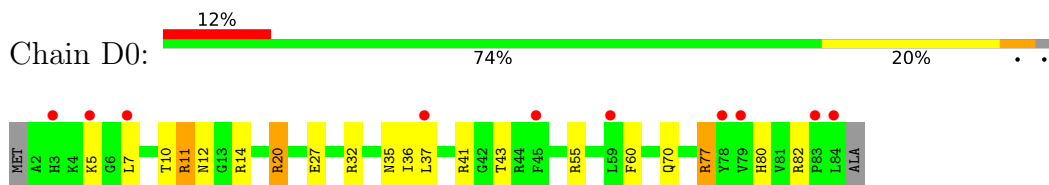
- Molecule 45: 50S Ribosomal Protein L25



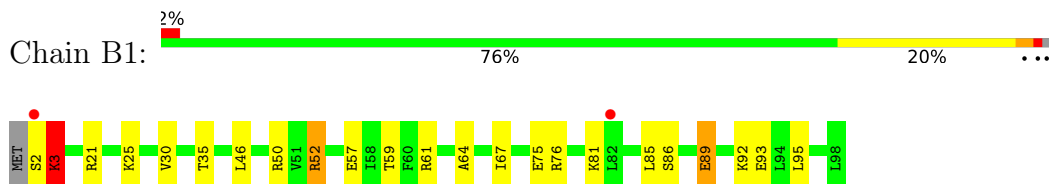
- Molecule 46: 50S Ribosomal Protein L27



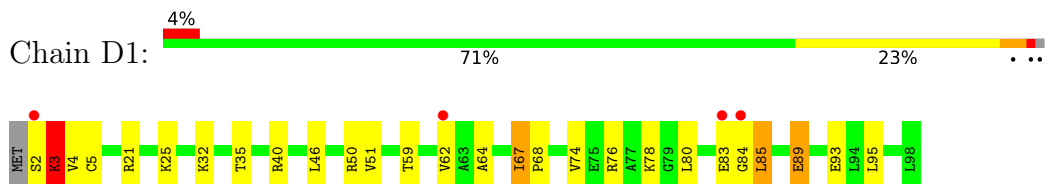
- Molecule 46: 50S Ribosomal Protein L27



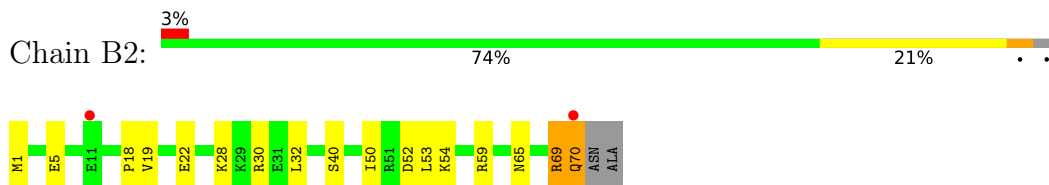
- Molecule 47: 50S Ribosomal Protein L28



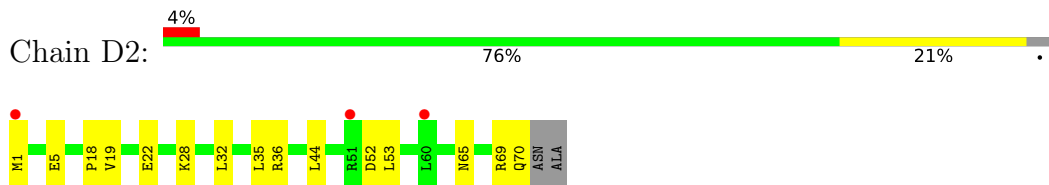
- Molecule 47: 50S Ribosomal Protein L28



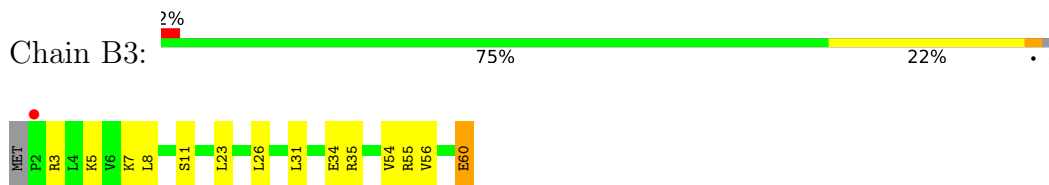
- Molecule 48: 50S Ribosomal Protein L29



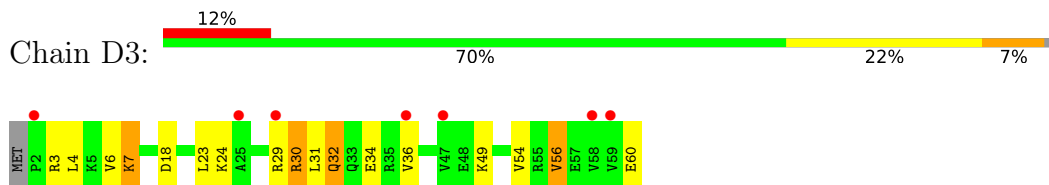
- Molecule 48: 50S Ribosomal Protein L29



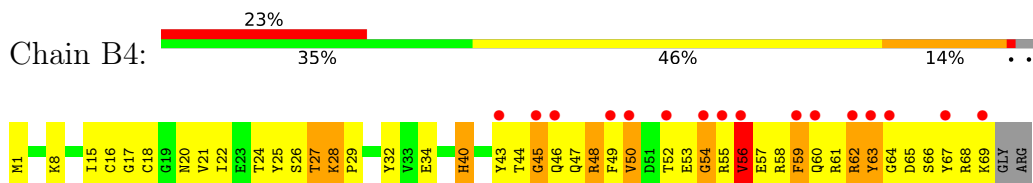
- Molecule 49: 50S Ribosomal Protein L30



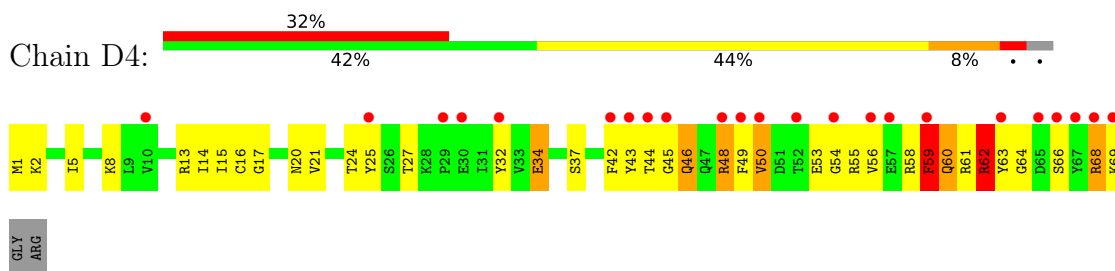
- Molecule 49: 50S Ribosomal Protein L30



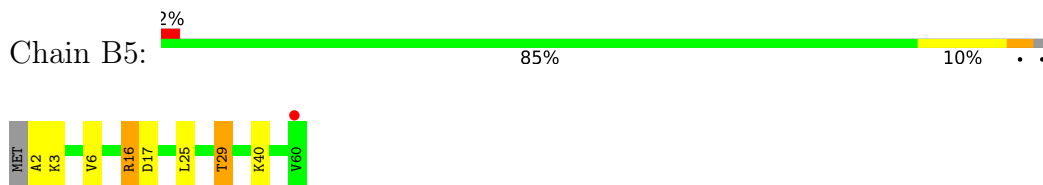
- Molecule 50: 50S Ribosomal Protein L31



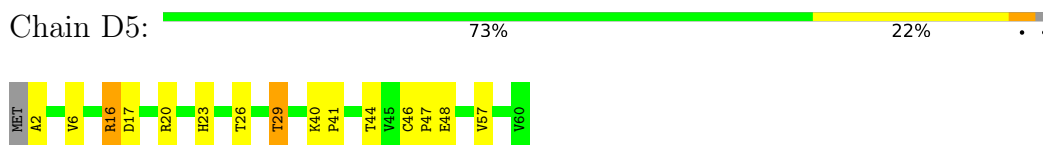
- Molecule 50: 50S Ribosomal Protein L31



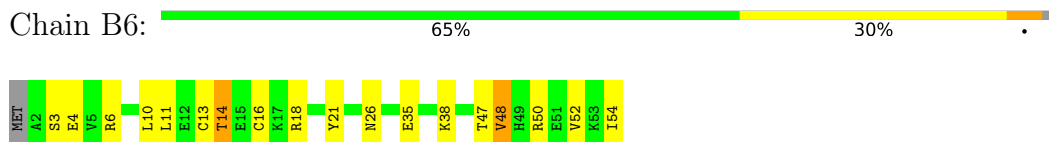
- Molecule 51: 50S Ribosomal Protein L32



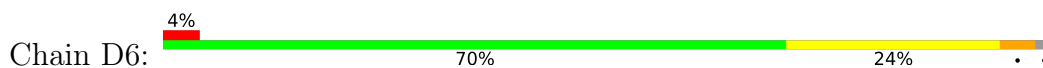
- Molecule 51: 50S Ribosomal Protein L32



- Molecule 52: 50S Ribosomal Protein L33



- Molecule 52: 50S Ribosomal Protein L33

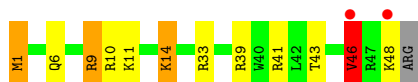
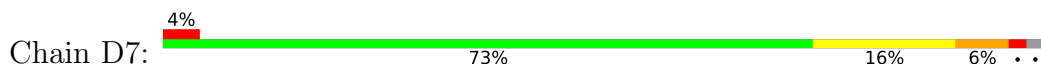




- Molecule 53: 50S Ribosomal Protein L34



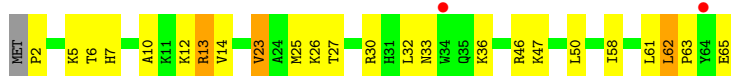
- Molecule 53: 50S Ribosomal Protein L34



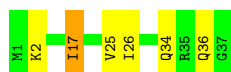
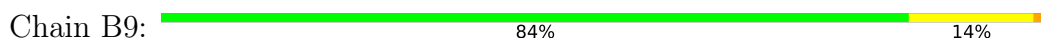
- Molecule 54: 50S Ribosomal Protein L35



- Molecule 54: 50S Ribosomal Protein L35



- Molecule 55: 50S Ribosomal Protein L36



- Molecule 55: 50S Ribosomal Protein L36



4 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α , β , γ	210.06Å 448.57Å 623.95Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	256.12 – 2.40 256.12 – 2.40	Depositor EDS
% Data completeness (in resolution range)	99.7 (256.12-2.40) 99.6 (256.12-2.40)	Depositor EDS
R_{merge}	0.19	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.24 (at 2.40Å)	Xtrriage
Refinement program	PHENIX 1.8.2_1309	Depositor
R, R_{free}	0.237 , 0.277 0.252 , 0.289	Depositor DCC
R_{free} test set	113081 reflections (5.00%)	wwPDB-VP
Wilson B-factor (Å ²)	45.9	Xtrriage
Anisotropy	0.221	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 65.1	EDS
L-test for twinning ²	$\langle L \rangle = 0.38$, $\langle L^2 \rangle = 0.20$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.90	EDS
Total number of atoms	298643	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.55% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	0.22	0/36027	0.43	0/56227
1	CA	0.21	0/36170	0.43	1/56452 (0.0%)
2	AB	0.40	0/1881	0.95	4/2542 (0.2%)
2	CB	0.41	0/1860	0.99	3/2518 (0.1%)
3	AC	0.39	0/1572	0.85	4/2126 (0.2%)
3	CC	0.38	0/1566	0.93	3/2119 (0.1%)
4	AD	0.38	0/1685	0.84	4/2262 (0.2%)
4	CD	0.38	0/1704	0.85	2/2284 (0.1%)
5	AE	0.39	0/1145	0.85	0/1543
5	CE	0.41	0/1149	0.97	0/1548
6	AF	0.39	0/823	0.76	0/1115
6	CF	0.37	0/829	0.79	0/1123
7	AG	0.39	0/1250	0.88	0/1679
7	CG	0.37	0/1254	0.91	2/1683 (0.1%)
8	AH	0.37	0/1108	0.84	0/1494
8	CH	0.34	0/1108	0.82	2/1494 (0.1%)
9	AI	0.37	0/1002	0.88	0/1346
9	CI	0.38	0/997	0.82	0/1343
10	AJ	0.40	0/722	0.99	1/982 (0.1%)
10	CJ	0.44	0/727	0.97	1/988 (0.1%)
11	AK	0.41	0/844	0.83	0/1145
11	CK	0.39	0/848	0.82	0/1149
12	AL	0.39	0/946	0.81	1/1274 (0.1%)
12	CL	0.38	0/946	0.90	3/1274 (0.2%)
13	AM	0.40	0/969	0.89	1/1302 (0.1%)
13	CM	0.39	0/961	0.91	1/1291 (0.1%)
14	AN	0.35	0/501	0.74	0/664
14	CN	0.37	0/501	0.83	0/664
15	AO	0.36	0/739	0.83	1/985 (0.1%)
15	CO	0.38	0/739	0.83	0/985
16	AP	0.36	0/697	0.77	0/939
16	CP	0.36	0/693	0.77	0/935

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	AQ	0.36	0/836	0.81	1/1117 (0.1%)
17	CQ	0.33	0/836	0.77	0/1117
18	AR	0.38	0/560	0.88	2/746 (0.3%)
18	CR	0.33	0/560	0.75	0/746
19	AS	0.37	0/667	0.88	0/900
19	CS	0.43	0/661	1.06	2/893 (0.2%)
20	AT	0.37	0/730	0.88	0/965
20	CT	0.39	0/729	0.89	0/965
21	AU	0.33	0/203	0.78	0/266
21	CU	0.38	0/203	0.83	0/266
22	AV	0.20	0/310	0.32	0/480
22	CV	0.22	0/310	0.35	0/480
23	AW	0.29	0/1606	0.53	0/2497
23	AY	0.28	0/1606	0.53	0/2497
23	CW	0.30	1/1556 (0.1%)	0.53	0/2418
23	CY	0.29	1/1583 (0.1%)	0.53	0/2459
24	AX	0.27	0/1725	0.45	0/2689
24	CX	0.27	0/1725	0.46	0/2689
25	BA	0.28	0/69261	0.47	2/108110 (0.0%)
25	DA	0.23	0/67545	0.44	1/105432 (0.0%)
26	BB	0.22	0/2882	0.42	0/4494
26	DB	0.23	0/2879	0.43	0/4487
27	BD	0.47	0/2186	0.87	3/2944 (0.1%)
27	DD	0.44	0/2186	0.86	3/2944 (0.1%)
28	BE	0.48	0/1592	0.86	0/2149
28	DE	0.44	0/1592	0.95	8/2149 (0.4%)
29	BF	0.47	0/1619	0.81	1/2193 (0.0%)
29	DF	0.41	0/1615	0.89	3/2188 (0.1%)
30	BG	0.39	0/1454	0.87	4/1964 (0.2%)
30	DG	0.36	0/1453	0.89	3/1963 (0.2%)
31	BH	0.43	0/1356	0.88	0/1834
31	DH	0.43	0/1356	0.93	3/1834 (0.2%)
32	BI	0.39	0/1112	0.88	2/1514 (0.1%)
32	DI	0.37	0/1079	0.89	3/1475 (0.2%)
33	BN	0.44	0/1144	0.80	0/1543
33	DN	0.41	0/1144	0.85	0/1543
34	BO	0.46	0/943	0.81	0/1269
34	DO	0.41	0/943	0.83	0/1269
35	BP	0.44	0/1152	0.85	0/1533
35	DP	0.38	0/1152	0.90	2/1533 (0.1%)
36	BQ	0.44	0/1143	0.80	0/1527
36	DQ	0.40	0/1143	0.83	0/1527
37	BR	0.49	0/982	0.86	0/1312

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
37	DR	0.44	0/982	0.80	0/1312
38	BS	0.41	0/883	0.78	0/1176
38	DS	0.39	0/880	0.85	0/1172
39	BT	0.44	0/1105	0.83	0/1477
39	DT	0.38	0/1097	0.78	0/1468
40	BU	0.51	0/977	0.83	1/1301 (0.1%)
40	DU	0.41	0/977	0.83	0/1301
41	BV	0.53	0/782	0.92	0/1049
41	DV	0.37	0/782	0.82	1/1049 (0.1%)
42	BW	0.53	0/897	0.85	2/1205 (0.2%)
42	DW	0.43	0/897	0.85	0/1205
43	BX	0.46	0/764	0.95	3/1025 (0.3%)
43	DX	0.41	0/764	0.86	0/1025
44	BY	0.44	0/819	0.86	0/1095
44	DY	0.38	0/819	0.90	0/1095
45	BZ	0.39	0/1267	0.95	6/1717 (0.3%)
45	DZ	0.39	0/1299	0.90	2/1763 (0.1%)
46	B0	0.45	0/662	0.82	1/881 (0.1%)
46	D0	0.34	0/662	0.82	2/881 (0.2%)
47	B1	0.40	0/762	0.81	0/1014
47	D1	0.41	0/762	0.82	1/1014 (0.1%)
48	B2	0.43	0/590	0.83	0/781
48	D2	0.35	0/590	0.78	0/781
49	B3	0.49	0/474	0.92	1/635 (0.2%)
49	D3	0.36	0/469	0.87	0/630
50	B4	0.41	0/565	1.09	8/761 (1.1%)
50	D4	0.42	0/545	1.05	4/737 (0.5%)
51	B5	0.52	0/469	0.79	0/635
51	D5	0.45	0/469	0.98	4/635 (0.6%)
52	B6	0.46	0/460	0.78	0/613
52	D6	0.37	0/456	0.74	0/608
53	B7	0.53	0/426	0.77	0/561
53	D7	0.48	0/426	0.86	2/561 (0.4%)
54	B8	0.46	0/525	0.89	2/691 (0.3%)
54	D8	0.39	0/525	0.82	2/691 (0.3%)
55	B9	0.42	0/310	0.79	0/407
55	D9	0.36	0/310	0.84	0/407
All	All	0.30	2/317730 (0.0%)	0.59	119/475754 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	AB	0	1
7	AG	0	1
7	CG	0	1
50	B4	0	2
All	All	0	5

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	CW	8	4SU	O3'-P	5.27	1.61	1.56
23	CY	8	4SU	O3'-P	5.08	1.61	1.56

The worst 5 of 119 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
43	BX	94	GLY	N-CA-C	10.18	124.81	112.49
45	BZ	158	PRO	CA-C-N	9.18	131.32	119.84
45	BZ	158	PRO	C-N-CA	9.18	131.32	119.84
28	DE	72	VAL	CA-C-N	8.47	136.95	121.70
28	DE	72	VAL	C-N-CA	8.47	136.95	121.70

There are no chirality outliers.

All (5) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	AB	9	GLU	Peptide
7	AG	79	ARG	Peptide
50	B4	59	PHE	Peptide
50	B4	67	TYR	Peptide
7	CG	79	ARG	Peptide

5.2 Too-close contacts [\(i\)](#)

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

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	AA	32185	0	16243	451	0
1	CA	32312	0	16307	523	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
2	AB	1846	0	1867	73	0
2	CB	1825	0	1828	88	0
3	AC	1548	0	1535	40	0
3	CC	1542	0	1517	55	0
4	AD	1655	0	1672	51	0
4	CD	1674	0	1714	45	0
5	AE	1129	0	1185	36	0
5	CE	1133	0	1191	40	0
6	AF	810	0	804	18	0
6	CF	816	0	808	12	0
7	AG	1231	0	1238	29	0
7	CG	1235	0	1249	32	0
8	AH	1088	0	1126	29	0
8	CH	1088	0	1126	40	0
9	AI	983	0	986	40	0
9	CI	978	0	966	46	0
10	AJ	709	0	650	28	0
10	CJ	714	0	672	36	0
11	AK	829	0	825	13	0
11	CK	833	0	836	10	0
12	AL	930	0	980	15	0
12	CL	930	0	980	23	0
13	AM	958	0	1002	30	0
13	CM	950	0	988	39	0
14	AN	492	0	529	24	0
14	CN	492	0	529	17	0
15	AO	728	0	760	21	0
15	CO	728	0	760	24	0
16	AP	681	0	697	17	0
16	CP	677	0	686	18	0
17	AQ	823	0	891	22	0
17	CQ	823	0	891	14	0
18	AR	555	0	618	18	0
18	CR	555	0	618	17	0
19	AS	652	0	662	28	0
19	CS	646	0	644	29	0
20	AT	728	0	798	19	0
20	CT	727	0	796	23	0
21	AU	199	0	208	4	0
21	CU	199	0	208	6	0
22	AV	277	0	140	1	0
22	CV	277	0	140	7	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
23	AW	1592	0	819	29	0
23	AY	1585	0	804	55	0
23	CW	1544	0	788	39	0
23	CY	1565	0	795	61	0
24	AX	1625	0	828	15	0
24	CX	1625	0	828	19	0
25	BA	61844	0	31181	619	0
25	DA	60314	0	30412	746	0
26	BB	2577	0	1305	15	0
26	DB	2575	0	1303	51	0
27	BD	2136	0	2218	52	0
27	DD	2136	0	2218	56	0
28	BE	1559	0	1618	30	0
28	DE	1559	0	1617	40	0
29	BF	1584	0	1625	22	0
29	DF	1580	0	1619	44	0
30	BG	1429	0	1447	25	0
30	DG	1428	0	1438	55	0
31	BH	1330	0	1407	24	0
31	DH	1330	0	1407	43	0
32	BI	1097	0	1140	33	0
32	DI	1064	0	1082	31	0
33	BN	1117	0	1184	15	0
33	DN	1117	0	1184	21	0
34	BO	933	0	996	19	0
34	DO	933	0	996	17	0
35	BP	1135	0	1212	29	0
35	DP	1135	0	1212	48	0
36	BQ	1122	0	1179	21	0
36	DQ	1122	0	1179	32	0
37	BR	968	0	1033	24	0
37	DR	968	0	1033	34	0
38	BS	873	0	927	23	0
38	DS	870	0	923	23	0
39	BT	1091	0	1151	26	0
39	DT	1083	0	1136	22	0
40	BU	959	0	1019	19	0
40	DU	959	0	1019	21	0
41	BV	771	0	830	15	0
41	DV	771	0	830	18	0
42	BW	886	0	940	10	0
42	DW	886	0	940	15	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	BX	750	0	814	14	0
43	DX	750	0	814	18	0
44	BY	806	0	881	20	0
44	DY	806	0	881	21	0
45	BZ	1240	0	1240	26	0
45	DZ	1271	0	1273	54	0
46	B0	653	0	674	10	0
46	D0	653	0	674	19	0
47	B1	755	0	826	16	0
47	D1	755	0	826	15	0
48	B2	588	0	643	8	0
48	D2	588	0	643	7	0
49	B3	469	0	518	6	0
49	D3	464	0	514	9	0
50	B4	552	0	533	27	0
50	D4	532	0	503	30	0
51	B5	455	0	465	6	0
51	D5	455	0	465	8	0
52	B6	453	0	473	9	0
52	D6	449	0	469	11	0
53	B7	418	0	467	10	0
53	D7	418	0	467	11	0
54	B8	517	0	582	19	0
54	D8	517	0	582	23	0
55	B9	307	0	335	4	0
55	D9	307	0	335	9	0
56	AA	233	0	0	0	0
56	AB	2	0	0	0	0
56	AD	1	0	0	0	0
56	AE	2	0	0	0	0
56	AF	1	0	0	0	0
56	AH	1	0	0	0	0
56	AK	1	0	0	0	0
56	AL	1	0	0	0	0
56	AM	1	0	0	0	0
56	AN	1	0	0	0	0
56	AR	1	0	0	0	0
56	AT	1	0	0	0	0
56	AW	4	0	0	0	0
56	AX	13	0	0	0	0
56	AY	2	0	0	0	0
56	B0	7	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	2	0	0	0	0
56	B3	2	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	3	0	0	0	0
56	B8	3	0	0	0	0
56	B9	1	0	0	0	0
56	BA	906	0	0	0	0
56	BB	30	0	0	0	0
56	BD	13	0	0	0	0
56	BE	12	0	0	0	0
56	BF	15	0	0	0	0
56	BG	6	0	0	0	0
56	BH	1	0	0	0	0
56	BI	1	0	0	0	0
56	BN	4	0	0	0	0
56	BO	5	0	0	0	0
56	BP	6	0	0	0	0
56	BQ	7	0	0	0	0
56	BR	3	0	0	0	0
56	BS	3	0	0	0	0
56	BT	2	0	0	0	0
56	BU	10	0	0	0	0
56	BV	5	0	0	0	0
56	BW	5	0	0	0	0
56	BX	6	0	0	0	0
56	BY	3	0	0	0	0
56	BZ	3	0	0	0	0
56	CA	201	0	0	0	0
56	CD	2	0	0	0	0
56	CE	1	0	0	0	0
56	CF	2	0	0	0	0
56	CG	1	0	0	0	0
56	CJ	2	0	0	0	0
56	CK	1	0	0	0	0
56	CL	2	0	0	0	0
56	CP	1	0	0	0	0
56	CQ	2	0	0	0	0
56	CR	1	0	0	0	0
56	CT	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	CV	1	0	0	0	0
56	CW	4	0	0	0	0
56	CX	6	0	0	0	0
56	D0	1	0	0	0	0
56	D1	1	0	0	0	0
56	D3	1	0	0	0	0
56	D5	2	0	0	0	0
56	D8	2	0	0	0	0
56	DA	673	0	0	0	0
56	DB	21	0	0	0	0
56	DD	6	0	0	0	0
56	DE	7	0	0	0	0
56	DF	7	0	0	0	0
56	DG	1	0	0	0	0
56	DO	1	0	0	0	0
56	DP	1	0	0	0	0
56	DQ	3	0	0	0	0
56	DR	1	0	0	0	0
56	DT	1	0	0	0	0
56	DU	4	0	0	0	0
56	DV	2	0	0	0	0
56	DW	3	0	0	0	0
56	DX	1	0	0	0	0
56	DY	1	0	0	0	0
56	DZ	1	0	0	0	0
57	AA	30	0	28	1	0
57	CA	30	0	29	1	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

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
60	CX	1	0	0	0	0
61	AA	264	0	0	16	0
61	AB	1	0	0	0	0
61	AE	2	0	0	0	0
61	AJ	1	0	0	0	0
61	AL	4	0	0	0	0
61	AM	1	0	0	0	0
61	AQ	1	0	0	0	0
61	AV	4	0	0	0	0
61	AW	2	0	0	0	0
61	AX	11	0	0	2	0
61	AY	1	0	0	0	0
61	B0	8	0	0	0	0
61	B1	3	0	0	0	0
61	B2	4	0	0	2	0
61	B3	3	0	0	0	0
61	B4	1	0	0	0	0
61	B5	4	0	0	0	0
61	B6	1	0	0	0	0
61	B7	4	0	0	1	0
61	B8	8	0	0	0	0
61	BA	1486	0	0	44	0
61	BB	43	0	0	2	0
61	BD	19	0	0	2	0
61	BE	20	0	0	1	0
61	BF	14	0	0	1	0
61	BG	5	0	0	1	0
61	BH	1	0	0	0	0
61	BI	2	0	0	0	0
61	BN	2	0	0	0	0
61	BO	7	0	0	0	0
61	BP	19	0	0	1	0
61	BQ	5	0	0	1	0
61	BR	5	0	0	0	0
61	BS	5	0	0	0	0
61	BT	5	0	0	0	0
61	BU	8	0	0	1	0
61	BV	6	0	0	0	0
61	BW	1	0	0	0	0
61	BX	2	0	0	0	0
61	BY	3	0	0	0	0
61	BZ	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
61	CA	204	0	0	12	0
61	CD	1	0	0	0	0
61	CG	1	0	0	0	0
61	CI	1	0	0	0	0
61	CJ	4	0	0	0	0
61	CL	4	0	0	0	0
61	CO	1	0	0	0	0
61	CP	1	0	0	0	0
61	CR	1	0	0	0	0
61	CT	1	0	0	0	0
61	CW	2	0	0	0	0
61	CX	6	0	0	0	0
61	D0	4	0	0	0	0
61	D1	4	0	0	1	0
61	D2	1	0	0	0	0
61	D3	1	0	0	0	0
61	D5	2	0	0	0	0
61	D7	5	0	0	0	0
61	D8	5	0	0	0	0
61	D9	1	0	0	0	0
61	DA	1039	0	0	58	0
61	DB	10	0	0	1	0
61	DD	17	0	0	0	0
61	DE	8	0	0	1	0
61	DF	6	0	0	0	0
61	DI	2	0	0	0	0
61	DN	1	0	0	0	0
61	DO	3	0	0	0	0
61	DP	12	0	0	3	0
61	DQ	1	0	0	0	0
61	DR	3	0	0	0	0
61	DT	3	0	0	0	0
61	DU	1	0	0	0	0
61	DV	1	0	0	0	0
61	DW	2	0	0	0	0
61	DX	2	0	0	0	0
61	DY	1	0	0	1	0
61	DZ	2	0	0	0	0
All	All	298643	0	196646	4470	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 9.

The worst 5 of 4470 close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:AA:1027:C:N3	1:AA:1034:G:C6	2.18	1.10
1:CA:1002:G:H1	1:CA:1038:C:N4	1.51	1.08
23:AW:6:G:H1	23:AW:67:C:N4	1.49	1.07
1:CA:1028:C:N3	1:CA:1033:G:C6	2.23	1.06
1:AA:78:G:C6	1:AA:91:C:N4	2.29	1.00

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
2	AB	229/256 (90%)	204 (89%)	19 (8%)	6 (3%)	4	4
2	CB	229/256 (90%)	201 (88%)	16 (7%)	12 (5%)	1	1
3	AC	204/239 (85%)	189 (93%)	14 (7%)	1 (0%)	24	37
3	CC	204/239 (85%)	188 (92%)	13 (6%)	3 (2%)	8	12
4	AD	206/209 (99%)	199 (97%)	6 (3%)	1 (0%)	24	37
4	CD	206/209 (99%)	201 (98%)	5 (2%)	0	100	100
5	AE	146/162 (90%)	140 (96%)	3 (2%)	3 (2%)	5	7
5	CE	146/162 (90%)	140 (96%)	5 (3%)	1 (1%)	18	28
6	AF	98/101 (97%)	96 (98%)	2 (2%)	0	100	100
6	CF	98/101 (97%)	95 (97%)	3 (3%)	0	100	100
7	AG	153/156 (98%)	146 (95%)	7 (5%)	0	100	100
7	CG	153/156 (98%)	144 (94%)	7 (5%)	2 (1%)	9	14
8	AH	135/138 (98%)	131 (97%)	4 (3%)	0	100	100
8	CH	135/138 (98%)	129 (96%)	6 (4%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
9	AI	125/128 (98%)	114 (91%)	8 (6%)	3 (2%)	4	5
9	CI	125/128 (98%)	114 (91%)	10 (8%)	1 (1%)	16	25
10	AJ	95/105 (90%)	85 (90%)	7 (7%)	3 (3%)	3	3
10	CJ	94/105 (90%)	84 (89%)	8 (8%)	2 (2%)	5	7
11	AK	112/129 (87%)	108 (96%)	2 (2%)	2 (2%)	6	9
11	CK	112/129 (87%)	108 (96%)	2 (2%)	2 (2%)	6	9
12	AL	120/132 (91%)	117 (98%)	3 (2%)	0	100	100
12	CL	120/132 (91%)	116 (97%)	4 (3%)	0	100	100
13	AM	121/126 (96%)	116 (96%)	5 (4%)	0	100	100
13	CM	120/126 (95%)	114 (95%)	4 (3%)	2 (2%)	7	10
14	AN	58/61 (95%)	56 (97%)	2 (3%)	0	100	100
14	CN	58/61 (95%)	56 (97%)	2 (3%)	0	100	100
15	AO	86/89 (97%)	84 (98%)	2 (2%)	0	100	100
15	CO	86/89 (97%)	83 (96%)	2 (2%)	1 (1%)	10	16
16	AP	80/88 (91%)	77 (96%)	2 (2%)	1 (1%)	9	14
16	CP	80/88 (91%)	78 (98%)	1 (1%)	1 (1%)	9	14
17	AQ	97/105 (92%)	94 (97%)	3 (3%)	0	100	100
17	CQ	97/105 (92%)	96 (99%)	1 (1%)	0	100	100
18	AR	66/88 (75%)	65 (98%)	1 (2%)	0	100	100
18	CR	66/88 (75%)	65 (98%)	1 (2%)	0	100	100
19	AS	81/93 (87%)	74 (91%)	7 (9%)	0	100	100
19	CS	81/93 (87%)	74 (91%)	6 (7%)	1 (1%)	10	16
20	AT	94/106 (89%)	87 (93%)	4 (4%)	3 (3%)	3	3
20	CT	94/106 (89%)	87 (93%)	2 (2%)	5 (5%)	1	1
21	AU	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
21	CU	21/27 (78%)	19 (90%)	2 (10%)	0	100	100
27	BD	273/276 (99%)	264 (97%)	8 (3%)	1 (0%)	30	43
27	DD	273/276 (99%)	265 (97%)	7 (3%)	1 (0%)	30	43
28	BE	202/206 (98%)	198 (98%)	3 (2%)	1 (0%)	24	37
28	DE	202/206 (98%)	196 (97%)	4 (2%)	2 (1%)	12	20
29	BF	201/210 (96%)	199 (99%)	1 (0%)	1 (0%)	24	37

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
29	DF	201/210 (96%)	198 (98%)	1 (0%)	2 (1%)	12	20
30	BG	179/182 (98%)	168 (94%)	11 (6%)	0	100	100
30	DG	179/182 (98%)	167 (93%)	10 (6%)	2 (1%)	11	18
31	BH	172/180 (96%)	166 (96%)	6 (4%)	0	100	100
31	DH	172/180 (96%)	165 (96%)	7 (4%)	0	100	100
32	BI	144/148 (97%)	128 (89%)	12 (8%)	4 (3%)	4	3
32	DI	144/148 (97%)	133 (92%)	10 (7%)	1 (1%)	18	28
33	BN	138/140 (99%)	137 (99%)	1 (1%)	0	100	100
33	DN	138/140 (99%)	136 (99%)	1 (1%)	1 (1%)	18	28
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%)	140 (95%)	6 (4%)	1 (1%)	18	28
35	DP	147/150 (98%)	138 (94%)	6 (4%)	3 (2%)	6	7
36	BQ	139/141 (99%)	135 (97%)	4 (3%)	0	100	100
36	DQ	139/141 (99%)	134 (96%)	4 (3%)	1 (1%)	18	28
37	BR	116/118 (98%)	113 (97%)	3 (3%)	0	100	100
37	DR	116/118 (98%)	112 (97%)	4 (3%)	0	100	100
38	BS	108/112 (96%)	106 (98%)	2 (2%)	0	100	100
38	DS	108/112 (96%)	106 (98%)	1 (1%)	1 (1%)	14	22
39	BT	129/146 (88%)	121 (94%)	7 (5%)	1 (1%)	16	25
39	DT	129/146 (88%)	125 (97%)	4 (3%)	0	100	100
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%)	96 (97%)	2 (2%)	1 (1%)	12	20
41	DV	99/101 (98%)	97 (98%)	1 (1%)	1 (1%)	12	20
42	BW	110/113 (97%)	110 (100%)	0	0	100	100
42	DW	110/113 (97%)	110 (100%)	0	0	100	100
43	BX	93/96 (97%)	92 (99%)	1 (1%)	0	100	100
43	DX	93/96 (97%)	91 (98%)	1 (1%)	1 (1%)	11	18
44	BY	105/110 (96%)	96 (91%)	9 (9%)	0	100	100
44	DY	105/110 (96%)	100 (95%)	5 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
45	BZ	148/206 (72%)	140 (95%)	6 (4%)	2 (1%)	9	13
45	DZ	156/206 (76%)	149 (96%)	6 (4%)	1 (1%)	21	32
46	B0	81/85 (95%)	80 (99%)	0	1 (1%)	10	16
46	D0	81/85 (95%)	79 (98%)	2 (2%)	0	100	100
47	B1	95/98 (97%)	94 (99%)	0	1 (1%)	11	18
47	D1	95/98 (97%)	93 (98%)	1 (1%)	1 (1%)	11	18
48	B2	68/72 (94%)	67 (98%)	0	1 (2%)	8	12
48	D2	68/72 (94%)	67 (98%)	1 (2%)	0	100	100
49	B3	57/60 (95%)	56 (98%)	1 (2%)	0	100	100
49	D3	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
50	B4	67/71 (94%)	57 (85%)	4 (6%)	6 (9%)	0	0
50	D4	67/71 (94%)	55 (82%)	6 (9%)	6 (9%)	0	0
51	B5	57/60 (95%)	57 (100%)	0	0	100	100
51	D5	57/60 (95%)	57 (100%)	0	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%)	44 (96%)	1 (2%)	1 (2%)	5	6
54	B8	62/65 (95%)	62 (100%)	0	0	100	100
54	D8	62/65 (95%)	62 (100%)	0	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	11372/12128 (94%)	10883 (96%)	387 (3%)	102 (1%)	14	22

5 of 102 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	AB	15	VAL
2	AB	16	HIS
2	AB	17	PHE
9	AI	54	ASP
27	BD	275	LYS

5.3.2 Protein sidechains [i](#)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
2	AB	192/220 (87%)	165 (86%)	27 (14%)	3	4
2	CB	187/220 (85%)	156 (83%)	31 (17%)	2	3
3	AC	142/188 (76%)	124 (87%)	18 (13%)	4	6
3	CC	140/188 (74%)	122 (87%)	18 (13%)	4	6
4	AD	169/181 (93%)	154 (91%)	15 (9%)	9	15
4	CD	173/181 (96%)	156 (90%)	17 (10%)	7	12
5	AE	113/123 (92%)	103 (91%)	10 (9%)	9	15
5	CE	114/123 (93%)	100 (88%)	14 (12%)	4	6
6	AF	84/90 (93%)	76 (90%)	8 (10%)	8	13
6	CF	85/90 (94%)	78 (92%)	7 (8%)	10	18
7	AG	119/127 (94%)	105 (88%)	14 (12%)	5	7
7	CG	120/127 (94%)	102 (85%)	18 (15%)	3	3
8	AH	114/119 (96%)	102 (90%)	12 (10%)	6	10
8	CH	114/119 (96%)	101 (89%)	13 (11%)	5	8
9	AI	90/99 (91%)	78 (87%)	12 (13%)	4	5
9	CI	89/99 (90%)	74 (83%)	15 (17%)	2	3
10	AJ	66/92 (72%)	60 (91%)	6 (9%)	9	14
10	CJ	69/92 (75%)	66 (96%)	3 (4%)	26	44
11	AK	82/99 (83%)	78 (95%)	4 (5%)	22	39
11	CK	83/99 (84%)	78 (94%)	5 (6%)	17	31
12	AL	97/109 (89%)	89 (92%)	8 (8%)	10	18
12	CL	97/109 (89%)	87 (90%)	10 (10%)	7	11
13	AM	93/101 (92%)	78 (84%)	15 (16%)	2	3
13	CM	92/101 (91%)	77 (84%)	15 (16%)	2	3
14	AN	49/50 (98%)	37 (76%)	12 (24%)	1	1
14	CN	49/50 (98%)	40 (82%)	9 (18%)	1	2

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
15	AO	78/80 (98%)	71 (91%)	7 (9%)	9	15
15	CO	78/80 (98%)	69 (88%)	9 (12%)	5	8
16	AP	69/74 (93%)	57 (83%)	12 (17%)	2	2
16	CP	68/74 (92%)	61 (90%)	7 (10%)	7	11
17	AQ	94/97 (97%)	83 (88%)	11 (12%)	5	7
17	CQ	94/97 (97%)	87 (93%)	7 (7%)	13	22
18	AR	59/77 (77%)	51 (86%)	8 (14%)	3	5
18	CR	59/77 (77%)	53 (90%)	6 (10%)	7	11
19	AS	69/80 (86%)	63 (91%)	6 (9%)	9	16
19	CS	67/80 (84%)	61 (91%)	6 (9%)	9	15
20	AT	70/82 (85%)	61 (87%)	9 (13%)	4	6
20	CT	70/82 (85%)	63 (90%)	7 (10%)	7	11
21	AU	18/22 (82%)	15 (83%)	3 (17%)	2	3
21	CU	18/22 (82%)	15 (83%)	3 (17%)	2	3
27	BD	215/218 (99%)	202 (94%)	13 (6%)	17	31
27	DD	215/218 (99%)	200 (93%)	15 (7%)	14	24
28	BE	164/166 (99%)	144 (88%)	20 (12%)	5	7
28	DE	164/166 (99%)	139 (85%)	25 (15%)	3	3
29	BF	160/166 (96%)	139 (87%)	21 (13%)	4	5
29	DF	159/166 (96%)	138 (87%)	21 (13%)	4	5
30	BG	144/156 (92%)	127 (88%)	17 (12%)	5	7
30	DG	143/156 (92%)	121 (85%)	22 (15%)	2	3
31	BH	144/148 (97%)	133 (92%)	11 (8%)	12	21
31	DH	144/148 (97%)	127 (88%)	17 (12%)	5	7
32	BI	113/124 (91%)	91 (80%)	22 (20%)	1	2
32	DI	105/124 (85%)	85 (81%)	20 (19%)	1	2
33	BN	118/119 (99%)	104 (88%)	14 (12%)	5	7
33	DN	118/119 (99%)	103 (87%)	15 (13%)	4	6
34	BO	100/100 (100%)	92 (92%)	8 (8%)	11	19
34	DO	100/100 (100%)	95 (95%)	5 (5%)	22	38
35	BP	115/116 (99%)	100 (87%)	15 (13%)	4	5

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
35	DP	115/116 (99%)	102 (89%)	13 (11%)	5	8
36	BQ	111/111 (100%)	99 (89%)	12 (11%)	6	9
36	DQ	111/111 (100%)	96 (86%)	15 (14%)	4	5
37	BR	101/101 (100%)	80 (79%)	21 (21%)	1	1
37	DR	101/101 (100%)	83 (82%)	18 (18%)	2	2
38	BS	86/88 (98%)	77 (90%)	9 (10%)	6	10
38	DS	85/88 (97%)	71 (84%)	14 (16%)	2	3
39	BT	115/127 (91%)	105 (91%)	10 (9%)	9	16
39	DT	113/127 (89%)	102 (90%)	11 (10%)	8	12
40	BU	93/94 (99%)	85 (91%)	8 (9%)	10	16
40	DU	93/94 (99%)	88 (95%)	5 (5%)	20	35
41	BV	80/82 (98%)	69 (86%)	11 (14%)	3	4
41	DV	80/82 (98%)	69 (86%)	11 (14%)	3	4
42	BW	90/92 (98%)	85 (94%)	5 (6%)	19	33
42	DW	90/92 (98%)	83 (92%)	7 (8%)	11	20
43	BX	77/78 (99%)	73 (95%)	4 (5%)	21	36
43	DX	77/78 (99%)	71 (92%)	6 (8%)	11	20
44	BY	85/91 (93%)	76 (89%)	9 (11%)	6	10
44	DY	85/91 (93%)	76 (89%)	9 (11%)	6	10
45	BZ	135/179 (75%)	117 (87%)	18 (13%)	4	5
45	DZ	137/179 (76%)	121 (88%)	16 (12%)	5	7
46	B0	65/67 (97%)	62 (95%)	3 (5%)	24	41
46	D0	65/67 (97%)	62 (95%)	3 (5%)	24	41
47	B1	80/83 (96%)	72 (90%)	8 (10%)	7	11
47	D1	80/83 (96%)	71 (89%)	9 (11%)	5	8
48	B2	65/67 (97%)	58 (89%)	7 (11%)	6	9
48	D2	65/67 (97%)	60 (92%)	5 (8%)	12	20
49	B3	51/52 (98%)	45 (88%)	6 (12%)	5	7
49	D3	50/52 (96%)	42 (84%)	8 (16%)	2	3
50	B4	59/63 (94%)	48 (81%)	11 (19%)	1	2
50	D4	53/63 (84%)	39 (74%)	14 (26%)	0	0

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
51	B5	50/52 (96%)	46 (92%)	4 (8%)	11	19
51	D5	50/52 (96%)	45 (90%)	5 (10%)	7	11
52	B6	51/52 (98%)	46 (90%)	5 (10%)	7	12
52	D6	50/52 (96%)	47 (94%)	3 (6%)	17	31
53	B7	41/42 (98%)	36 (88%)	5 (12%)	5	7
53	D7	41/42 (98%)	35 (85%)	6 (15%)	3	4
54	B8	54/55 (98%)	47 (87%)	7 (13%)	4	5
54	D8	54/55 (98%)	48 (89%)	6 (11%)	6	9
55	B9	34/34 (100%)	33 (97%)	1 (3%)	37	60
55	D9	34/34 (100%)	33 (97%)	1 (3%)	37	60
All	All	9306/10066 (92%)	8239 (88%)	1067 (12%)	5	8

5 of 1067 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
37	DR	111	LEU
40	DU	36	ARG
37	DR	102	GLU
50	D4	56	VAL
37	BR	111	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 140 such sidechains are listed below:

Mol	Chain	Res	Type
30	DG	41	GLN
33	DN	38	HIS
43	DX	31	HIS
35	BP	38	GLN
32	BI	43	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1494/1521 (98%)	298 (19%)	24 (1%)
1	CA	1501/1521 (98%)	308 (20%)	23 (1%)
22	AV	12/24 (50%)	2 (16%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
22	CV	12/24 (50%)	1 (8%)	0
23	AW	72/76 (94%)	30 (41%)	2 (2%)
23	AY	72/76 (94%)	29 (40%)	1 (1%)
23	CW	69/76 (90%)	27 (39%)	1 (1%)
23	CY	70/76 (92%)	29 (41%)	3 (4%)
24	AX	75/77 (97%)	15 (20%)	1 (1%)
24	CX	75/77 (97%)	16 (21%)	1 (1%)
25	BA	2864/2915 (98%)	451 (15%)	39 (1%)
25	DA	2791/2915 (95%)	486 (17%)	29 (1%)
26	BB	120/121 (99%)	19 (15%)	1 (0%)
26	DB	119/121 (98%)	20 (16%)	1 (0%)
All	All	9346/9620 (97%)	1731 (18%)	126 (1%)

5 of 1731 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 126 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
25	BA	2167	C
25	DA	900	A
1	CA	266	G
25	DA	856	C
25	DA	1992	G

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

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	MIA	CY	37	23	21,24,32	1.57	4 (19%)	30,35,47	2.04	9 (30%)
24	4SU	AX	8	24	18,21,22	2.23	6 (33%)	25,30,33	1.73	6 (24%)
23	4SU	CY	8	23	18,21,22	1.78	4 (22%)	25,30,33	2.50	7 (28%)
23	5MU	CY	54	23	19,22,23	1.47	5 (26%)	27,32,35	2.16	5 (18%)
23	PSU	AW	39	23	18,21,22	1.38	2 (11%)	21,30,33	1.96	3 (14%)
23	7MG	AY	46	23	23,26,27	1.35	5 (21%)	27,39,42	2.63	6 (22%)
23	4SU	AY	8	23	18,21,22	1.75	4 (22%)	25,30,33	2.09	5 (20%)
23	PSU	CW	32	23	18,21,22	1.37	2 (11%)	21,30,33	1.92	3 (14%)
23	5MU	AY	54	23	19,22,23	1.54	5 (26%)	27,32,35	2.27	6 (22%)
23	4SU	AW	8	23	18,21,22	1.92	5 (27%)	25,30,33	1.80	5 (20%)
24	5MC	AX	32	24	19,22,23	1.70	3 (15%)	26,32,35	1.19	3 (11%)
23	5MU	AW	54	23	19,22,23	1.36	5 (26%)	27,32,35	2.02	6 (22%)
23	PSU	AW	55	23	18,21,22	1.42	2 (11%)	21,30,33	2.11	4 (19%)
23	PSU	AY	39	23	18,21,22	1.39	2 (11%)	21,30,33	1.83	4 (19%)
23	MIA	CW	37	23	24,27,32	1.99	5 (20%)	32,39,47	2.43	11 (34%)
23	PSU	AY	32	23	18,21,22	1.31	2 (11%)	21,30,33	1.93	3 (14%)
23	7MG	AW	46	23	23,26,27	1.42	3 (13%)	27,39,42	2.59	7 (25%)
24	PSU	AX	55	24	18,21,22	1.35	2 (11%)	21,30,33	2.00	4 (19%)
23	PSU	CW	55	23	18,21,22	1.40	2 (11%)	21,30,33	2.04	3 (14%)
24	PSU	CX	55	24	18,21,22	1.37	2 (11%)	21,30,33	1.99	5 (23%)
24	4SU	CX	8	24	18,21,22	2.08	4 (22%)	25,30,33	1.45	5 (20%)
23	PSU	CW	39	23	18,21,22	1.44	2 (11%)	21,30,33	1.79	3 (14%)
23	MIA	AY	37	23	21,24,32	1.63	4 (19%)	30,35,47	2.03	7 (23%)
23	PSU	CY	55	23	18,21,22	1.52	4 (22%)	21,30,33	2.06	4 (19%)
23	PSU	AW	32	23	18,21,22	1.38	2 (11%)	21,30,33	2.03	3 (14%)
23	7MG	CW	46	23	23,26,27	1.30	4 (17%)	27,39,42	2.67	6 (22%)
23	PSU	CY	32	23	18,21,22	1.31	2 (11%)	21,30,33	1.95	3 (14%)
24	5MC	CX	32	24	19,22,23	1.75	3 (15%)	26,32,35	1.29	5 (19%)
23	PSU	AY	55	23	18,21,22	1.35	2 (11%)	21,30,33	2.10	4 (19%)
23	PSU	CY	39	23	18,21,22	1.37	2 (11%)	21,30,33	1.94	4 (19%)
23	7MG	CY	46	23	23,26,27	1.39	3 (13%)	27,39,42	2.92	8 (29%)
24	5MU	AX	54	56,24	19,22,23	1.45	6 (31%)	27,32,35	1.89	6 (22%)
23	MIA	AW	37	23	28,31,32	2.38	7 (25%)	38,44,47	2.60	13 (34%)
23	5MU	CW	54	23	19,22,23	1.36	5 (26%)	27,32,35	1.92	7 (25%)
23	4SU	CW	8	23	18,21,22	1.81	5 (27%)	25,30,33	1.98	5 (20%)

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
24	5MU	CX	54	24	19,22,23	1.45	6 (31%)	27,32,35	2.16	7 (25%)

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	MIA	CY	37	23	-	2/7/25/34	0/3/3/3
24	4SU	AX	8	24	-	0/7/25/26	0/2/2/2
23	4SU	CY	8	23	-	0/7/25/26	0/2/2/2
23	5MU	CY	54	23	-	2/7/25/26	0/2/2/2
23	PSU	AW	39	23	-	0/7/25/26	0/2/2/2
23	7MG	AY	46	23	-	3/7/37/38	0/3/3/3
23	4SU	AY	8	23	-	0/7/25/26	0/2/2/2
23	PSU	CW	32	23	-	0/7/25/26	0/2/2/2
23	5MU	AY	54	23	-	3/7/25/26	0/2/2/2
23	4SU	AW	8	23	-	0/7/25/26	0/2/2/2
24	5MC	AX	32	24	-	0/7/25/26	0/2/2/2
23	5MU	AW	54	23	-	0/7/25/26	0/2/2/2
23	PSU	AW	55	23	-	0/7/25/26	0/2/2/2
23	PSU	AY	39	23	-	0/7/25/26	0/2/2/2
23	MIA	CW	37	23	-	4/11/29/34	0/3/3/3
23	PSU	AY	32	23	-	0/7/25/26	0/2/2/2
23	7MG	AW	46	23	-	1/7/37/38	0/3/3/3
24	PSU	AX	55	24	-	0/7/25/26	0/2/2/2
23	PSU	CW	55	23	-	0/7/25/26	0/2/2/2
24	PSU	CX	55	24	-	0/7/25/26	0/2/2/2
24	4SU	CX	8	24	-	0/7/25/26	0/2/2/2
23	PSU	CW	39	23	-	0/7/25/26	0/2/2/2
23	MIA	AY	37	23	-	2/7/25/34	0/3/3/3
23	PSU	CY	55	23	-	2/7/25/26	0/2/2/2
23	PSU	AW	32	23	-	0/7/25/26	0/2/2/2
23	7MG	CW	46	23	-	2/7/37/38	0/3/3/3
23	PSU	CY	32	23	-	0/7/25/26	0/2/2/2
24	5MC	CX	32	24	-	0/7/25/26	0/2/2/2
23	PSU	AY	55	23	-	2/7/25/26	0/2/2/2
23	PSU	CY	39	23	-	0/7/25/26	0/2/2/2
23	7MG	CY	46	23	-	3/7/37/38	0/3/3/3
24	5MU	AX	54	56,24	-	0/7/25/26	0/2/2/2

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Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
23	MIA	AW	37	23	-	3/15/33/34	0/3/3/3
23	5MU	CW	54	23	-	0/7/25/26	0/2/2/2
23	4SU	CW	8	23	-	0/7/25/26	0/2/2/2
24	5MU	CX	54	24	-	2/7/25/26	0/2/2/2

The worst 5 of 131 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
23	AW	37	MIA	C2-S10	-7.26	1.69	1.75
23	AW	37	MIA	C13-C14	6.97	1.53	1.32
24	CX	32	5MC	C5-C4	6.42	1.49	1.44
23	CW	37	MIA	C2-S10	-6.15	1.70	1.75
24	AX	32	5MC	C5-C4	6.15	1.48	1.44

The worst 5 of 195 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
23	CY	46	7MG	N9-C4-N3	10.40	140.70	125.46
23	AY	46	7MG	N9-C4-N3	9.26	139.04	125.46
23	AW	46	7MG	N9-C4-N3	8.85	138.42	125.46
23	CW	46	7MG	N9-C4-N3	8.62	138.09	125.46
23	AW	37	MIA	C12-C13-C14	-8.07	112.52	127.01

There are no chirality outliers.

5 of 31 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
23	AW	37	MIA	C12-C13-C14-C15
23	AW	37	MIA	C12-C13-C14-C16
23	AY	46	7MG	C4'-C5'-O5'-P
23	AY	54	5MU	O4'-C4'-C5'-O5'
23	CW	37	MIA	C5-C6-N6-C12

There are no ring outliers.

17 monomers are involved in 32 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	CY	37	MIA	1	0
24	AX	8	4SU	2	0
23	CY	8	4SU	2	0

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Mol	Chain	Res	Type	Clashes	Symm-Clashes
23	AY	46	7MG	1	0
23	AY	8	4SU	3	0
23	AW	55	PSU	1	0
23	AY	32	PSU	1	0
23	AW	46	7MG	1	0
24	CX	55	PSU	1	0
23	CW	39	PSU	1	0
23	AY	37	MIA	2	0
23	CY	55	PSU	6	0
23	CW	46	7MG	1	0
24	CX	32	5MC	2	0
23	AY	55	PSU	2	0
23	CY	46	7MG	3	0
23	CW	8	4SU	2	0

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry [i](#)

Of 2325 ligands modelled in this entry, 2321 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	UAM	AA	3232	56	31,31,31	1.42	3 (9%)	38,44,44	1.22	3 (7%)
58	SF4	CD	501	4	0,12,12	-	-	-	-	-
58	SF4	AD	501	4	0,12,12	-	-	-	-	-
57	UAM	CA	3202	-	31,31,31	1.45	3 (9%)	38,44,44	1.29	6 (15%)

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	UAM	AA	3232	56	-	5/28/40/40	0/2/2/2
58	SF4	CD	501	4	-	-	0/6/5/5
58	SF4	AD	501	4	-	-	0/6/5/5
57	UAM	CA	3202	-	-	5/28/40/40	0/2/2/2

The worst 5 of 6 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	AA	3232	UAM	CAO-CAW	-6.47	1.39	1.51
57	CA	3202	UAM	CAO-CAW	-6.23	1.39	1.51
57	CA	3202	UAM	CAX-CAU	-3.65	1.38	1.46
57	AA	3232	UAM	CAX-CAU	-3.03	1.39	1.46
57	CA	3202	UAM	OAR-CAU	2.07	1.38	1.34

The worst 5 of 9 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	AA	3232	UAM	CAY-CAP-CBC	-3.55	108.39	115.54
57	CA	3202	UAM	OAR-CAU-OAG	3.46	121.32	117.53
57	AA	3232	UAM	OAR-CAU-OAG	3.13	120.96	117.53
57	AA	3232	UAM	CBD-OAR-CAU	-3.12	113.28	118.93
57	CA	3202	UAM	CBD-OAR-CAU	-2.88	113.71	118.93

There are no chirality outliers.

5 of 10 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
57	CA	3202	UAM	CAY-CAP-CBC-CBD
57	CA	3202	UAM	CBD-CBC-NAQ-CAT
57	AA	3232	UAM	CAZ-CAN-CAS-OAE
57	AA	3232	UAM	CAZ-CAN-CAS-NAC
57	CA	3202	UAM	CAP-CBC-NAQ-CAT

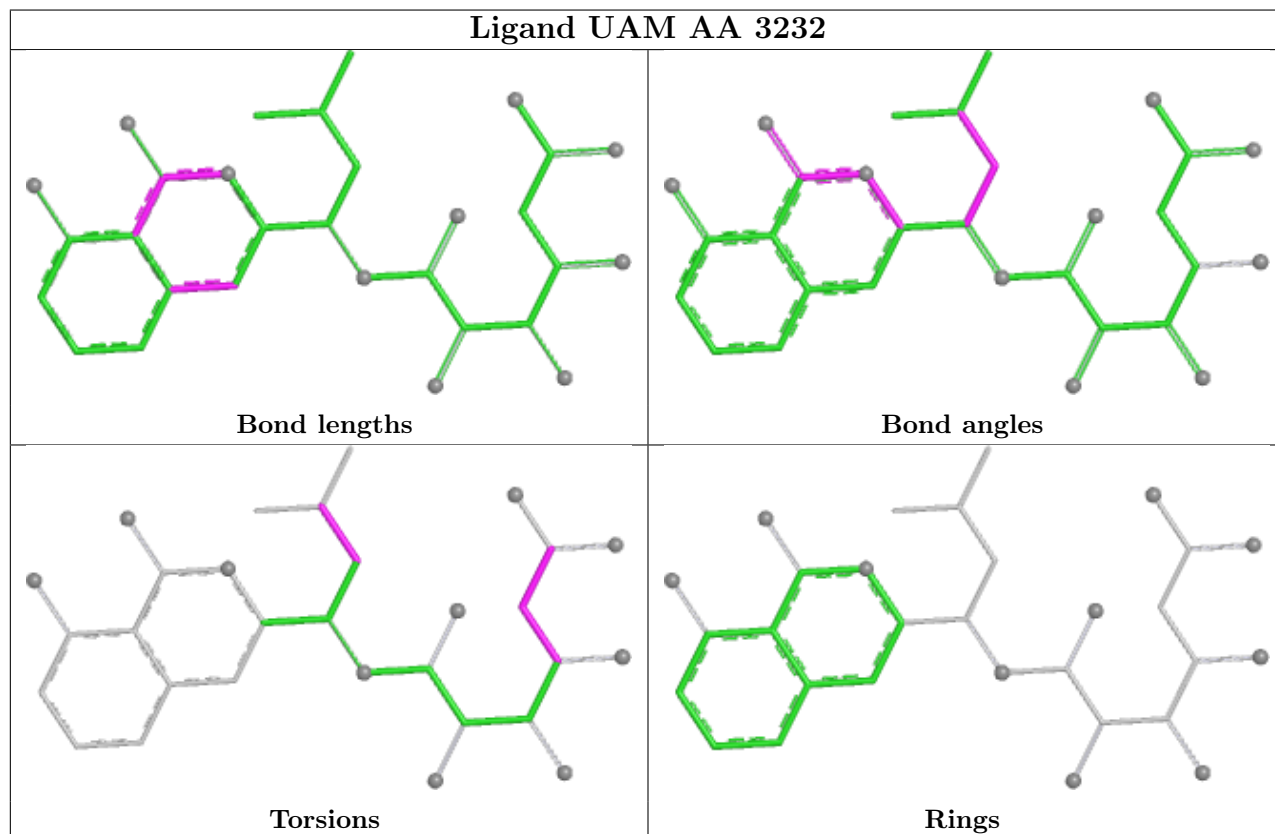
There are no ring outliers.

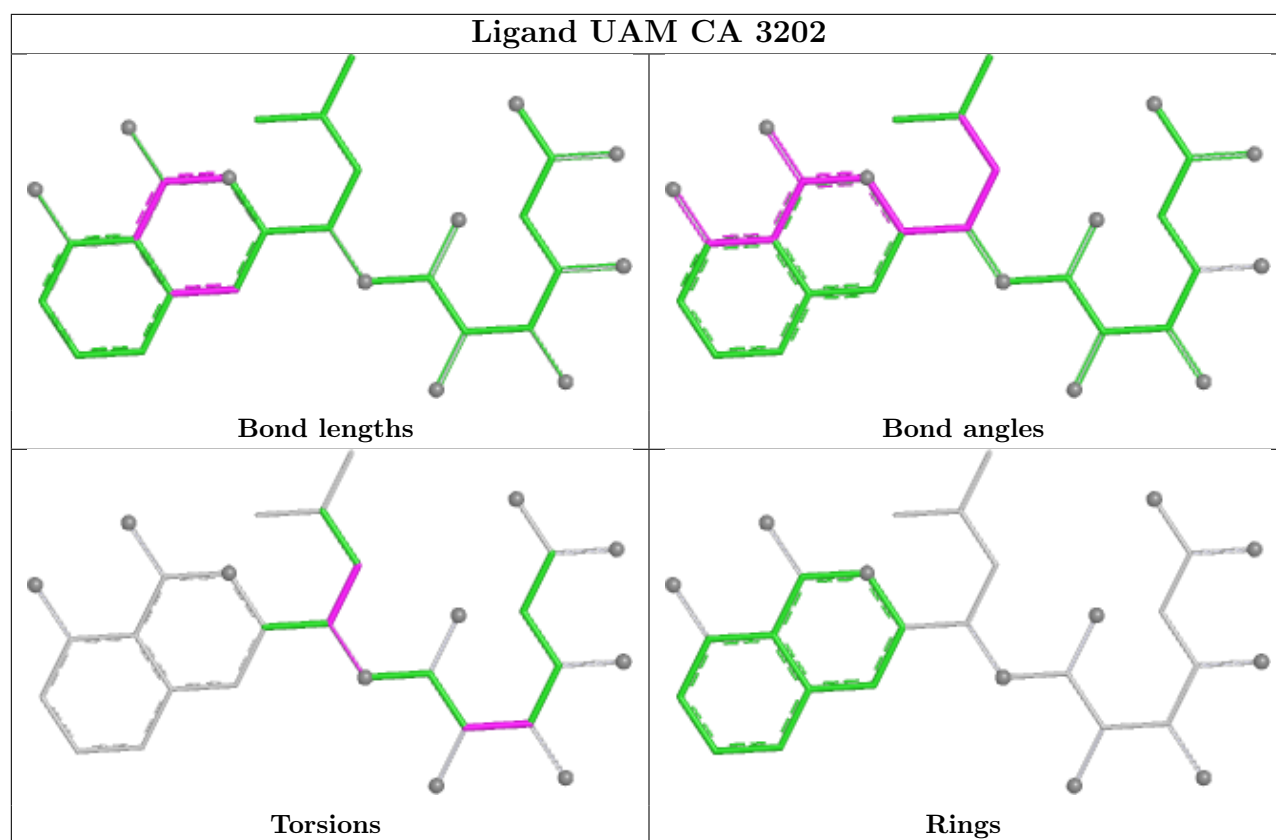
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
57	AA	3232	UAM	1	0
57	CA	3202	UAM	1	0

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In

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





5.7 Other polymers [i](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [i](#)

There are no chain breaks in this entry.

6 Fit of model and data [i](#)

6.1 Protein, DNA and RNA chains [i](#)

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ > 2	OWAB(Å ²)	Q < 0.9
1	AA	1497/1521 (98%)	0.56	60 (4%) 42 38	36, 63, 86, 100	0
1	CA	1503/1521 (98%)	0.73	94 (6%) 26 22	38, 65, 87, 100	0
2	AB	231/256 (90%)	1.59	60 (25%) 1 1	62, 75, 84, 89	0
2	CB	231/256 (90%)	2.02	104 (45%) 0 0	64, 77, 84, 90	0
3	AC	206/239 (86%)	1.34	30 (14%) 6 4	59, 70, 80, 85	0
3	CC	206/239 (86%)	1.93	96 (46%) 0 0	61, 72, 81, 86	0
4	AD	208/209 (99%)	1.30	39 (18%) 3 3	48, 63, 72, 77	0
4	CD	208/209 (99%)	1.16	17 (8%) 17 14	49, 63, 72, 76	0
5	AE	148/162 (91%)	1.24	17 (11%) 9 7	49, 63, 73, 80	0
5	CE	148/162 (91%)	1.40	28 (18%) 3 2	49, 65, 74, 80	0
6	AF	100/101 (99%)	0.74	0 100 100	50, 60, 69, 74	0
6	CF	100/101 (99%)	0.79	2 (2%) 65 60	49, 61, 70, 75	0
7	AG	155/156 (99%)	1.21	19 (12%) 8 6	54, 66, 76, 83	0
7	CG	155/156 (99%)	1.33	26 (16%) 4 3	55, 68, 77, 85	0
8	AH	137/138 (99%)	1.17	11 (8%) 18 15	53, 64, 71, 78	0
8	CH	137/138 (99%)	1.43	25 (18%) 3 3	54, 66, 72, 78	0
9	AI	127/128 (99%)	1.73	39 (30%) 1 1	49, 72, 79, 83	0
9	CI	127/128 (99%)	2.16	69 (54%) 0 0	55, 74, 81, 84	0
10	AJ	97/105 (92%)	1.64	31 (31%) 1 1	46, 69, 84, 88	0
10	CJ	96/105 (91%)	2.50	61 (63%) 0 0	58, 78, 87, 91	0
11	AK	114/129 (88%)	0.95	11 (9%) 13 10	42, 61, 72, 76	0
11	CK	114/129 (88%)	1.07	13 (11%) 10 7	43, 63, 73, 77	0
12	AL	122/132 (92%)	0.82	9 (7%) 20 17	43, 54, 65, 72	0
12	CL	122/132 (92%)	0.98	10 (8%) 17 14	46, 56, 66, 74	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	AM	123/126 (97%)	1.27	16 (13%) 7 5	51, 66, 73, 77	0
13	CM	122/126 (96%)	1.74	43 (35%) 1 1	53, 69, 74, 79	0
14	AN	60/61 (98%)	1.58	12 (20%) 3 2	60, 67, 74, 76	0
14	CN	60/61 (98%)	2.51	40 (66%) 0 0	61, 70, 76, 79	0
15	AO	88/89 (98%)	1.02	6 (6%) 23 20	41, 61, 70, 75	0
15	CO	88/89 (98%)	0.98	8 (9%) 15 12	45, 61, 71, 77	0
16	AP	82/88 (93%)	1.43	15 (18%) 3 3	53, 62, 72, 74	0
16	CP	82/88 (93%)	1.40	14 (17%) 4 3	52, 62, 71, 74	0
17	AQ	99/105 (94%)	1.16	7 (7%) 22 18	50, 62, 72, 74	0
17	CQ	99/105 (94%)	1.15	10 (10%) 12 9	50, 63, 73, 75	0
18	AR	68/88 (77%)	0.77	3 (4%) 39 34	44, 57, 70, 73	0
18	CR	68/88 (77%)	0.90	7 (10%) 12 9	51, 64, 72, 77	0
19	AS	83/93 (89%)	1.38	15 (18%) 3 3	60, 70, 78, 85	0
19	CS	83/93 (89%)	1.91	37 (44%) 0 0	64, 72, 80, 87	0
20	AT	96/106 (90%)	1.36	13 (13%) 7 5	53, 64, 75, 76	0
20	CT	96/106 (90%)	1.37	18 (18%) 3 3	53, 63, 76, 78	0
21	AU	23/27 (85%)	1.61	8 (34%) 1 1	58, 64, 67, 70	0
21	CU	23/27 (85%)	1.92	8 (34%) 1 1	60, 66, 70, 74	0
22	AV	13/24 (54%)	0.81	1 (7%) 19 16	50, 59, 78, 86	0
22	CV	13/24 (54%)	1.37	3 (23%) 2 1	54, 62, 81, 88	0
23	AW	67/76 (88%)	1.36	12 (17%) 3 3	42, 83, 94, 98	0
23	AY	67/76 (88%)	1.45	20 (29%) 1 1	36, 88, 94, 99	0
23	CW	65/76 (85%)	1.56	14 (21%) 2 2	45, 84, 94, 99	0
23	CY	66/76 (86%)	1.49	17 (25%) 1 1	39, 88, 94, 96	0
24	AX	72/77 (93%)	0.71	4 (5%) 30 26	35, 66, 80, 89	0
24	CX	72/77 (93%)	0.62	0 100 100	38, 69, 81, 90	0
25	BA	2871/2915 (98%)	-0.15	161 (5%) 30 26	19, 38, 88, 103	0
25	DA	2800/2915 (96%)	-0.11	107 (3%) 44 40	24, 42, 84, 100	0
26	BB	120/121 (99%)	0.31	1 (0%) 82 80	36, 56, 68, 86	0
26	DB	120/121 (99%)	0.73	2 (1%) 69 65	42, 60, 71, 88	0
27	BD	275/276 (99%)	0.04	3 (1%) 78 74	21, 36, 51, 75	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
27	DD	275/276 (99%)	0.11	4 (1%) 72 68	22, 38, 53, 75	0
28	BE	204/206 (99%)	0.23	2 (0%) 79 76	21, 42, 59, 72	0
28	DE	204/206 (99%)	0.40	7 (3%) 48 44	23, 45, 62, 74	0
29	BF	203/210 (96%)	0.49	7 (3%) 48 44	20, 46, 68, 82	0
29	DF	203/210 (96%)	0.56	5 (2%) 58 54	23, 52, 69, 83	0
30	BG	181/182 (99%)	1.08	19 (10%) 11 8	45, 61, 73, 84	0
30	DG	181/182 (99%)	1.33	30 (16%) 4 3	50, 63, 75, 84	0
31	BH	174/180 (96%)	1.18	17 (9%) 13 10	47, 60, 69, 77	0
31	DH	174/180 (96%)	1.62	50 (28%) 1 1	51, 65, 73, 78	0
32	BI	146/148 (98%)	1.08	10 (6%) 23 20	43, 66, 77, 81	0
32	DI	146/148 (98%)	1.12	14 (9%) 13 10	43, 67, 77, 81	0
33	BN	140/140 (100%)	0.56	4 (2%) 53 50	29, 42, 62, 72	0
33	DN	140/140 (100%)	0.70	5 (3%) 46 42	34, 47, 66, 74	0
34	BO	122/122 (100%)	0.33	1 (0%) 82 80	31, 42, 59, 65	0
34	DO	122/122 (100%)	0.38	0 100 100	35, 45, 60, 67	0
35	BP	149/150 (99%)	0.52	9 (6%) 27 24	22, 51, 68, 76	0
35	DP	149/150 (99%)	0.76	5 (3%) 48 44	25, 54, 70, 77	0
36	BQ	141/141 (100%)	0.57	4 (2%) 55 51	29, 45, 62, 70	0
36	DQ	141/141 (100%)	0.83	8 (5%) 29 25	34, 50, 66, 71	0
37	BR	118/118 (100%)	0.16	0 100 100	24, 35, 46, 56	0
37	DR	118/118 (100%)	0.10	0 100 100	26, 38, 49, 58	0
38	BS	110/112 (98%)	0.90	5 (4%) 38 34	41, 54, 66, 71	0
38	DS	110/112 (98%)	1.24	13 (11%) 9 6	45, 58, 68, 73	0
39	BT	131/146 (89%)	0.64	5 (3%) 44 40	34, 46, 66, 75	0
39	DT	131/146 (89%)	0.67	3 (2%) 61 57	38, 50, 70, 76	0
40	BU	116/118 (98%)	0.13	2 (1%) 69 65	23, 33, 52, 64	0
40	DU	116/118 (98%)	0.47	2 (1%) 69 65	29, 39, 56, 66	0
41	BV	101/101 (100%)	-0.30	2 (1%) 65 60	15, 31, 49, 71	0
41	DV	101/101 (100%)	1.06	6 (5%) 28 24	40, 66, 74, 84	0
42	BW	112/113 (99%)	-0.06	2 (1%) 67 63	23, 31, 50, 75	0
42	DW	112/113 (99%)	0.01	2 (1%) 67 63	27, 35, 54, 76	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
43	BX	95/96 (98%)	0.46	3 (3%) 50 46	28, 40, 61, 75	0
43	DX	95/96 (98%)	0.53	4 (4%) 40 36	30, 44, 62, 75	0
44	BY	107/110 (97%)	0.92	6 (5%) 30 26	36, 52, 68, 76	0
44	DY	107/110 (97%)	1.24	14 (13%) 7 5	38, 56, 70, 76	0
45	BZ	154/206 (74%)	0.95	23 (14%) 5 4	34, 59, 80, 89	0
45	DZ	160/206 (77%)	1.87	57 (35%) 1 1	62, 77, 87, 97	0
46	B0	83/85 (97%)	0.02	3 (3%) 46 42	25, 33, 50, 61	0
46	D0	83/85 (97%)	1.23	10 (12%) 9 6	42, 61, 69, 73	0
47	B1	97/98 (98%)	0.50	2 (2%) 63 59	27, 43, 66, 70	0
47	D1	97/98 (98%)	0.47	4 (4%) 41 37	30, 44, 66, 73	0
48	B2	70/72 (97%)	0.25	2 (2%) 53 50	25, 42, 57, 67	0
48	D2	70/72 (97%)	0.96	3 (4%) 40 36	51, 64, 70, 72	0
49	B3	59/60 (98%)	-0.23	1 (1%) 69 65	16, 29, 52, 70	0
49	D3	59/60 (98%)	1.12	7 (11%) 9 6	49, 63, 74, 78	0
50	B4	69/71 (97%)	1.46	16 (23%) 2 1	55, 71, 83, 88	0
50	D4	69/71 (97%)	1.82	23 (33%) 1 1	61, 74, 85, 89	0
51	B5	59/60 (98%)	-0.11	1 (1%) 69 65	19, 32, 48, 58	0
51	D5	59/60 (98%)	0.01	0 100 100	25, 35, 52, 59	0
52	B6	53/54 (98%)	-0.10	0 100 100	22, 38, 55, 57	0
52	D6	53/54 (98%)	0.79	2 (3%) 44 40	42, 56, 67, 73	0
53	B7	48/49 (97%)	-0.11	3 (6%) 26 22	15, 26, 50, 64	0
53	D7	48/49 (97%)	0.11	2 (4%) 40 36	25, 37, 63, 68	0
54	B8	64/65 (98%)	-0.31	0 100 100	21, 28, 35, 52	0
54	D8	64/65 (98%)	0.79	2 (3%) 51 47	39, 51, 58, 64	0
55	B9	37/37 (100%)	0.54	0 100 100	26, 44, 62, 69	0
55	D9	37/37 (100%)	1.01	4 (10%) 11 8	39, 49, 64, 73	0
All	All	20920/21748 (96%)	0.61	1931 (9%) 14 12	15, 56, 82, 103	0

The worst 5 of 1931 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
45	DZ	174	VAL	6.3
25	BA	2167	C	6.3

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Mol	Chain	Res	Type	RSRZ
25	DA	2802	G	6.3
47	B1	2	SER	6.1
1	CA	1030(B)	C	5.9

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
23	7MG	AY	46	24/25	0.58	0.17	76,92,102,121	0
23	7MG	AW	46	24/25	0.64	0.17	66,84,103,129	0
23	4SU	CY	8	20/21	0.64	0.18	76,90,105,117	0
23	4SU	AY	8	20/21	0.65	0.16	77,91,110,118	0
23	5MU	CY	54	21/22	0.67	0.17	78,87,97,118	0
23	PSU	CY	55	20/21	0.67	0.15	80,91,104,111	0
23	4SU	CW	8	20/21	0.68	0.15	78,89,106,119	0
23	7MG	CW	46	24/25	0.72	0.16	81,92,99,121	0
23	7MG	CY	46	24/25	0.72	0.16	84,93,103,111	0
23	PSU	AY	55	20/21	0.74	0.15	82,92,102,111	0
23	MIA	CY	37	22/30	0.75	0.14	65,78,95,107	0
23	5MU	AY	54	21/22	0.76	0.15	70,85,94,111	0
23	PSU	CY	32	20/21	0.78	0.14	71,78,92,94	0
23	PSU	CW	55	20/21	0.80	0.13	64,74,85,87	0
23	4SU	AW	8	20/21	0.84	0.13	56,80,91,93	0
23	MIA	AY	37	22/30	0.84	0.14	69,78,88,91	0
23	5MU	CW	54	21/22	0.85	0.14	65,75,84,86	0
24	4SU	CX	8	20/21	0.85	0.13	65,74,85,85	0
23	PSU	AY	32	20/21	0.86	0.13	71,79,89,91	0
23	PSU	AW	55	20/21	0.87	0.12	62,70,81,83	0
24	PSU	CX	55	20/21	0.87	0.12	48,69,86,88	0
23	PSU	CW	32	20/21	0.88	0.15	66,72,78,78	0
23	PSU	CY	39	20/21	0.89	0.11	64,74,81,84	0
24	5MU	CX	54	21/22	0.89	0.13	70,78,82,89	0
23	PSU	AY	39	20/21	0.90	0.12	67,73,79,81	0
24	5MU	AX	54	21/22	0.91	0.12	54,66,74,75	0
23	PSU	AW	32	20/21	0.91	0.12	61,69,75,77	0
24	5MC	CX	32	21/22	0.91	0.13	51,66,72,75	0
24	PSU	AX	55	20/21	0.92	0.10	45,66,84,85	0
23	PSU	CW	39	20/21	0.92	0.11	57,65,69,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
24	4SU	AX	8	20/21	0.94	0.10	53,60,66,68	0
24	5MC	AX	32	21/22	0.95	0.13	43,51,61,70	0
23	5MU	AW	54	21/22	0.95	0.09	38,59,67,72	0
23	PSU	AW	39	20/21	0.95	0.10	55,62,65,67	0
23	MIA	AW	37	29/30	0.95	0.12	37,49,63,66	0
23	MIA	CW	37	25/30	0.95	0.10	36,64,70,71	0

6.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

6.4 Ligands [i](#)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BE	310	1/1	0.57	0.30	80,80,80,80	0
56	MG	BA	3361	1/1	0.58	0.21	41,41,41,41	0
56	MG	BA	3469	1/1	0.59	0.28	61,61,61,61	0
56	MG	BE	302	1/1	0.62	0.13	27,27,27,27	0
56	MG	BB	3021	1/1	0.64	0.26	73,73,73,73	0
56	MG	CA	3056	1/1	0.65	0.32	84,84,84,84	0
56	MG	DA	3621	1/1	0.66	0.21	48,48,48,48	0
56	MG	DA	3582	1/1	0.68	0.23	52,52,52,52	0
56	MG	DA	3404	1/1	0.68	0.19	49,49,49,49	0
56	MG	DA	3424	1/1	0.69	0.22	47,47,47,47	0
56	MG	DE	305	1/1	0.69	0.20	49,49,49,49	0
56	MG	AA	3122	1/1	0.70	0.21	61,61,61,61	0
56	MG	DA	3596	1/1	0.70	0.20	62,62,62,62	0
56	MG	CA	3144	1/1	0.71	0.30	69,69,69,69	0
56	MG	BA	3694	1/1	0.72	0.28	62,62,62,62	0
56	MG	CA	3188	1/1	0.72	0.25	72,72,72,72	0
56	MG	DA	3276	1/1	0.72	0.19	60,60,60,60	0
56	MG	CA	3193	1/1	0.73	0.20	66,66,66,66	0
56	MG	DA	3593	1/1	0.73	0.15	60,60,60,60	0
56	MG	BA	3505	1/1	0.73	0.19	44,44,44,44	0
56	MG	AA	3166	1/1	0.73	0.19	81,81,81,81	0
56	MG	BA	3793	1/1	0.73	0.20	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3325	1/1	0.74	0.25	53,53,53,53	0
56	MG	BZ	3001	1/1	0.74	0.28	69,69,69,69	0
56	MG	BA	3643	1/1	0.74	0.18	60,60,60,60	0
56	MG	BA	3743	1/1	0.74	0.20	50,50,50,50	0
56	MG	BA	3704	1/1	0.75	0.20	57,57,57,57	0
56	MG	BA	3720	1/1	0.75	0.23	73,73,73,73	0
56	MG	BA	3638	1/1	0.75	0.14	58,58,58,58	0
56	MG	CA	3129	1/1	0.75	0.26	69,69,69,69	0
56	MG	BA	3759	1/1	0.76	0.12	44,44,44,44	0
56	MG	CA	3192	1/1	0.76	0.25	69,69,69,69	0
56	MG	BA	3640	1/1	0.76	0.15	60,60,60,60	0
56	MG	AA	3117	1/1	0.76	0.21	68,68,68,68	0
56	MG	BA	3508	1/1	0.76	0.16	48,48,48,48	0
56	MG	DA	3393	1/1	0.76	0.17	55,55,55,55	0
56	MG	BA	3527	1/1	0.76	0.22	57,57,57,57	0
56	MG	BA	3707	1/1	0.76	0.22	53,53,53,53	0
56	MG	DA	3524	1/1	0.76	0.15	53,53,53,53	0
56	MG	BA	3718	1/1	0.76	0.17	47,47,47,47	0
56	MG	CA	3120	1/1	0.76	0.19	62,62,62,62	0
56	MG	CA	3126	1/1	0.76	0.22	68,68,68,68	0
56	MG	BA	3580	1/1	0.76	0.17	35,35,35,35	0
56	MG	AA	3182	1/1	0.76	0.32	65,65,65,65	0
56	MG	BA	3659	1/1	0.77	0.21	55,55,55,55	0
56	MG	BA	3671	1/1	0.77	0.16	50,50,50,50	0
56	MG	CA	3127	1/1	0.77	0.17	57,57,57,57	0
56	MG	AH	201	1/1	0.77	0.18	67,67,67,67	0
56	MG	BA	3635	1/1	0.77	0.19	65,65,65,65	0
56	MG	BA	3086	1/1	0.77	0.16	57,57,57,57	0
56	MG	AA	3201	1/1	0.77	0.14	60,60,60,60	0
56	MG	BA	3409	1/1	0.77	0.16	65,65,65,65	0
56	MG	CJ	5001	1/1	0.77	0.12	70,70,70,70	0
56	MG	BA	3729	1/1	0.77	0.22	56,56,56,56	0
56	MG	BA	3631	1/1	0.78	0.18	38,38,38,38	0
56	MG	BA	3757	1/1	0.78	0.17	49,49,49,49	0
56	MG	DA	3426	1/1	0.78	0.14	41,41,41,41	0
56	MG	DA	3449	1/1	0.78	0.12	45,45,45,45	0
56	MG	CA	3007	1/1	0.78	0.35	66,66,66,66	0
56	MG	BA	3673	1/1	0.78	0.24	62,62,62,62	0
56	MG	BA	3619	1/1	0.78	0.23	68,68,68,68	0
56	MG	BA	3873	1/1	0.78	0.17	26,26,26,26	0
56	MG	DA	3610	1/1	0.78	0.25	61,61,61,61	0
56	MG	BA	3630	1/1	0.78	0.14	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3731	1/1	0.78	0.14	64,64,64,64	0
56	MG	DR	5001	1/1	0.78	0.14	51,51,51,51	0
56	MG	BA	3819	1/1	0.79	0.21	61,61,61,61	0
56	MG	BA	3021	1/1	0.79	0.18	53,53,53,53	0
56	MG	DA	3472	1/1	0.79	0.12	57,57,57,57	0
56	MG	DA	3241	1/1	0.79	0.18	60,60,60,60	0
56	MG	DA	3526	1/1	0.79	0.18	42,42,42,42	0
56	MG	AW	102	1/1	0.79	0.21	69,69,69,69	0
56	MG	CA	3108	1/1	0.80	0.27	57,57,57,57	0
56	MG	CW	3004	1/1	0.80	0.22	64,64,64,64	0
56	MG	BB	3011	1/1	0.80	0.20	66,66,66,66	0
56	MG	DA	3541	1/1	0.80	0.24	59,59,59,59	0
56	MG	DA	3560	1/1	0.80	0.21	50,50,50,50	0
56	MG	DA	3575	1/1	0.80	0.15	51,51,51,51	0
56	MG	BA	3719	1/1	0.80	0.15	61,61,61,61	0
56	MG	BA	3581	1/1	0.80	0.13	33,33,33,33	0
56	MG	BA	3611	1/1	0.80	0.15	61,61,61,61	0
56	MG	AA	3055	1/1	0.80	0.23	61,61,61,61	0
56	MG	DA	3619	1/1	0.80	0.17	65,65,65,65	0
56	MG	BA	3844	1/1	0.80	0.18	49,49,49,49	0
56	MG	DA	3641	1/1	0.80	0.14	62,62,62,62	0
56	MG	DE	301	1/1	0.80	0.15	47,47,47,47	0
56	MG	CA	3050	1/1	0.80	0.25	72,72,72,72	0
56	MG	BA	3501	1/1	0.80	0.20	50,50,50,50	0
56	MG	AA	3139	1/1	0.81	0.23	82,82,82,82	0
56	MG	CA	3182	1/1	0.81	0.25	58,58,58,58	0
56	MG	DA	3328	1/1	0.81	0.18	64,64,64,64	0
56	MG	DA	3574	1/1	0.81	0.16	48,48,48,48	0
56	MG	DA	3349	1/1	0.81	0.11	50,50,50,50	0
56	MG	BA	3446	1/1	0.81	0.22	63,63,63,63	0
56	MG	BA	3575	1/1	0.81	0.17	27,27,27,27	0
56	MG	DA	3414	1/1	0.81	0.20	56,56,56,56	0
56	MG	BA	3108	1/1	0.81	0.12	45,45,45,45	0
56	MG	BA	3208	1/1	0.81	0.32	62,62,62,62	0
56	MG	DA	3447	1/1	0.81	0.22	50,50,50,50	0
56	MG	AA	3141	1/1	0.81	0.26	70,70,70,70	0
56	MG	DB	3001	1/1	0.81	0.31	71,71,71,71	0
56	MG	BA	3871	1/1	0.81	0.16	55,55,55,55	0
56	MG	DA	3511	1/1	0.81	0.10	31,31,31,31	0
56	MG	DA	3244	1/1	0.81	0.11	47,47,47,47	0
56	MG	BA	3750	1/1	0.82	0.18	54,54,54,54	0
56	MG	DA	3432	1/1	0.82	0.22	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3493	1/1	0.82	0.12	41,41,41,41	0
56	MG	AA	3111	1/1	0.82	0.17	57,57,57,57	0
56	MG	DA	3454	1/1	0.82	0.17	44,44,44,44	0
56	MG	BA	3348	1/1	0.82	0.16	65,65,65,65	0
56	MG	DA	3505	1/1	0.82	0.18	61,61,61,61	0
56	MG	DA	3506	1/1	0.82	0.18	55,55,55,55	0
56	MG	BA	3798	1/1	0.82	0.22	55,55,55,55	0
56	MG	DA	3519	1/1	0.82	0.13	46,46,46,46	0
56	MG	DA	3521	1/1	0.82	0.22	56,56,56,56	0
56	MG	CA	3174	1/1	0.82	0.23	57,57,57,57	0
56	MG	BA	3359	1/1	0.82	0.23	58,58,58,58	0
56	MG	DA	3529	1/1	0.82	0.13	48,48,48,48	0
56	MG	BA	3838	1/1	0.82	0.14	47,47,47,47	0
56	MG	DA	3542	1/1	0.82	0.12	45,45,45,45	0
56	MG	AA	3158	1/1	0.82	0.27	54,54,54,54	0
56	MG	BA	3849	1/1	0.82	0.13	29,29,29,29	0
56	MG	BA	3556	1/1	0.82	0.18	48,48,48,48	0
56	MG	AA	3223	1/1	0.82	0.12	72,72,72,72	0
56	MG	BA	3417	1/1	0.82	0.16	46,46,46,46	0
56	MG	BA	3432	1/1	0.82	0.14	55,55,55,55	0
56	MG	BA	3596	1/1	0.82	0.19	44,44,44,44	0
56	MG	DA	3612	1/1	0.82	0.16	52,52,52,52	0
56	MG	AA	3063	1/1	0.82	0.18	55,55,55,55	0
56	MG	BA	3447	1/1	0.82	0.16	46,46,46,46	0
56	MG	DA	3628	1/1	0.82	0.15	47,47,47,47	0
56	MG	BA	3111	1/1	0.82	0.19	60,60,60,60	0
56	MG	BA	3479	1/1	0.82	0.15	41,41,41,41	0
56	MG	BA	3739	1/1	0.82	0.17	49,49,49,49	0
56	MG	CA	3088	1/1	0.82	0.31	62,62,62,62	0
56	MG	DF	302	1/1	0.82	0.15	55,55,55,55	0
56	MG	BA	3485	1/1	0.82	0.13	29,29,29,29	0
56	MG	AA	3147	1/1	0.83	0.21	65,65,65,65	0
56	MG	AA	3218	1/1	0.83	0.13	75,75,75,75	0
56	MG	BA	3459	1/1	0.83	0.16	38,38,38,38	0
56	MG	DA	3040	1/1	0.83	0.12	51,51,51,51	0
56	MG	DA	3117	1/1	0.83	0.24	62,62,62,62	0
56	MG	DA	3134	1/1	0.83	0.27	56,56,56,56	0
56	MG	CA	3049	1/1	0.83	0.15	67,67,67,67	0
56	MG	BA	3764	1/1	0.83	0.17	32,32,32,32	0
56	MG	DA	3247	1/1	0.83	0.17	63,63,63,63	0
56	MG	BA	3271	1/1	0.83	0.20	54,54,54,54	0
56	MG	DA	3301	1/1	0.83	0.13	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3303	1/1	0.83	0.09	30,30,30,30	0
56	MG	BA	3699	1/1	0.83	0.11	45,45,45,45	0
56	MG	BA	3809	1/1	0.83	0.17	58,58,58,58	0
56	MG	AA	3099	1/1	0.83	0.20	64,64,64,64	0
56	MG	AA	3162	1/1	0.83	0.18	67,67,67,67	0
56	MG	AA	3060	1/1	0.83	0.30	62,62,62,62	0
56	MG	BA	3372	1/1	0.83	0.14	55,55,55,55	0
56	MG	AA	3174	1/1	0.83	0.17	58,58,58,58	0
56	MG	CA	3160	1/1	0.83	0.19	55,55,55,55	0
56	MG	CA	3173	1/1	0.83	0.21	81,81,81,81	0
56	MG	AA	3008	1/1	0.83	0.29	71,71,71,71	0
56	MG	DB	3003	1/1	0.83	0.16	62,62,62,62	0
56	MG	DB	3018	1/1	0.83	0.20	62,62,62,62	0
56	MG	CA	3180	1/1	0.83	0.28	55,55,55,55	0
56	MG	AA	3198	1/1	0.83	0.14	58,58,58,58	0
56	MG	BA	3541	1/1	0.83	0.18	59,59,59,59	0
56	MG	BA	3549	1/1	0.83	0.15	38,38,38,38	0
56	MG	AA	3062	1/1	0.84	0.25	61,61,61,61	0
56	MG	CA	3162	1/1	0.84	0.16	68,68,68,68	0
56	MG	BA	3116	1/1	0.84	0.14	56,56,56,56	0
56	MG	BA	3515	1/1	0.84	0.16	64,64,64,64	0
56	MG	BA	3445	1/1	0.84	0.14	48,48,48,48	0
56	MG	BA	3741	1/1	0.84	0.24	63,63,63,63	0
56	MG	BB	3025	1/1	0.84	0.14	71,71,71,71	0
56	MG	AN	502	1/1	0.84	0.10	45,45,45,45	0
56	MG	AA	3179	1/1	0.84	0.23	66,66,66,66	0
56	MG	BP	205	1/1	0.84	0.11	44,44,44,44	0
56	MG	CJ	5002	1/1	0.84	0.12	65,65,65,65	0
56	MG	BA	3318	1/1	0.84	0.19	53,53,53,53	0
56	MG	B4	502	1/1	0.84	0.15	65,65,65,65	0
56	MG	AX	3013	1/1	0.84	0.18	61,61,61,61	0
56	MG	DA	3555	1/1	0.84	0.10	30,30,30,30	0
56	MG	BA	3763	1/1	0.84	0.15	58,58,58,58	0
56	MG	AY	3001	1/1	0.84	0.31	76,76,76,76	0
56	MG	BA	3784	1/1	0.84	0.12	49,49,49,49	0
56	MG	CA	3074	1/1	0.84	0.14	73,73,73,73	0
56	MG	AA	3114	1/1	0.84	0.17	65,65,65,65	0
56	MG	CA	3089	1/1	0.84	0.23	65,65,65,65	0
56	MG	CA	3090	1/1	0.84	0.26	74,74,74,74	0
56	MG	DA	3611	1/1	0.84	0.14	65,65,65,65	0
56	MG	BA	3492	1/1	0.84	0.10	43,43,43,43	0
56	MG	CA	3114	1/1	0.84	0.24	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3603	1/1	0.84	0.12	42,42,42,42	0
56	MG	DA	3353	1/1	0.84	0.11	34,34,34,34	0
56	MG	DA	3631	1/1	0.84	0.13	52,52,52,52	0
56	MG	DA	3383	1/1	0.84	0.13	41,41,41,41	0
56	MG	BA	3818	1/1	0.84	0.18	58,58,58,58	0
56	MG	AA	3222	1/1	0.84	0.15	55,55,55,55	0
56	MG	DB	3017	1/1	0.84	0.17	58,58,58,58	0
56	MG	BA	3617	1/1	0.84	0.10	44,44,44,44	0
56	MG	CA	3131	1/1	0.84	0.20	76,76,76,76	0
56	MG	AA	3194	1/1	0.84	0.15	58,58,58,58	0
56	MG	DA	3428	1/1	0.84	0.13	42,42,42,42	0
56	MG	CA	3155	1/1	0.84	0.18	72,72,72,72	0
57	UAM	CA	3202	30/30	0.84	0.19	45,72,83,85	0
56	MG	BA	3751	1/1	0.85	0.12	51,51,51,51	0
56	MG	DA	3503	1/1	0.85	0.12	57,57,57,57	0
56	MG	BA	3754	1/1	0.85	0.15	54,54,54,54	0
56	MG	BA	3665	1/1	0.85	0.14	49,49,49,49	0
56	MG	DA	3507	1/1	0.85	0.18	63,63,63,63	0
56	MG	CA	3195	1/1	0.85	0.30	69,69,69,69	0
56	MG	B0	106	1/1	0.85	0.16	66,66,66,66	0
56	MG	BA	3590	1/1	0.85	0.09	23,23,23,23	0
56	MG	CW	3002	1/1	0.85	0.15	60,60,60,60	0
56	MG	CA	3004	1/1	0.85	0.21	66,66,66,66	0
56	MG	AA	3219	1/1	0.85	0.19	63,63,63,63	0
56	MG	AX	3007	1/1	0.85	0.19	58,58,58,58	0
56	MG	BA	3778	1/1	0.85	0.19	40,40,40,40	0
56	MG	BA	3468	1/1	0.85	0.14	36,36,36,36	0
56	MG	BA	3787	1/1	0.85	0.08	24,24,24,24	0
56	MG	DA	3572	1/1	0.85	0.11	45,45,45,45	0
56	MG	AA	3149	1/1	0.85	0.12	51,51,51,51	0
56	MG	BA	3795	1/1	0.85	0.13	22,22,22,22	0
56	MG	DA	3279	1/1	0.85	0.19	56,56,56,56	0
56	MG	DA	3588	1/1	0.85	0.18	64,64,64,64	0
56	MG	DA	3289	1/1	0.85	0.16	53,53,53,53	0
56	MG	AA	3188	1/1	0.85	0.19	67,67,67,67	0
56	MG	DA	3597	1/1	0.85	0.15	54,54,54,54	0
56	MG	BA	3716	1/1	0.85	0.13	47,47,47,47	0
56	MG	BA	3717	1/1	0.85	0.12	57,57,57,57	0
56	MG	BA	3620	1/1	0.85	0.14	39,39,39,39	0
56	MG	BA	3622	1/1	0.85	0.18	56,56,56,56	0
56	MG	BA	3480	1/1	0.85	0.13	54,54,54,54	0
56	MG	BA	3727	1/1	0.85	0.24	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3550	1/1	0.85	0.15	29,29,29,29	0
56	MG	DA	3632	1/1	0.85	0.14	57,57,57,57	0
56	MG	DA	3395	1/1	0.85	0.13	45,45,45,45	0
56	MG	BA	3426	1/1	0.85	0.16	42,42,42,42	0
56	MG	BA	3881	1/1	0.85	0.11	47,47,47,47	0
56	MG	BB	3004	1/1	0.85	0.25	59,59,59,59	0
56	MG	BA	3571	1/1	0.85	0.13	23,23,23,23	0
56	MG	AD	502	1/1	0.85	0.30	55,55,55,55	0
56	MG	AA	3210	1/1	0.85	0.12	76,76,76,76	0
56	MG	CA	3175	1/1	0.85	0.15	62,62,62,62	0
56	MG	BB	3026	1/1	0.85	0.19	66,66,66,66	0
56	MG	D0	3001	1/1	0.85	0.12	51,51,51,51	0
56	MG	AA	3089	1/1	0.85	0.31	66,66,66,66	0
56	MG	DA	3482	1/1	0.86	0.11	53,53,53,53	0
56	MG	BA	3627	1/1	0.86	0.14	34,34,34,34	0
56	MG	CX	3004	1/1	0.86	0.15	61,61,61,61	0
56	MG	CX	3006	1/1	0.86	0.14	50,50,50,50	0
56	MG	DA	3002	1/1	0.86	0.17	60,60,60,60	0
56	MG	DA	3510	1/1	0.86	0.13	46,46,46,46	0
56	MG	AA	3012	1/1	0.86	0.25	63,63,63,63	0
56	MG	DA	3116	1/1	0.86	0.29	66,66,66,66	0
56	MG	AX	3012	1/1	0.86	0.14	60,60,60,60	0
56	MG	AA	3090	1/1	0.86	0.12	51,51,51,51	0
56	MG	DA	3157	1/1	0.86	0.13	54,54,54,54	0
56	MG	DA	3167	1/1	0.86	0.09	48,48,48,48	0
56	MG	BA	3734	1/1	0.86	0.14	32,32,32,32	0
56	MG	AA	3056	1/1	0.86	0.23	60,60,60,60	0
56	MG	DA	3549	1/1	0.86	0.08	49,49,49,49	0
56	MG	AA	3108	1/1	0.86	0.30	65,65,65,65	0
56	MG	DA	3559	1/1	0.86	0.17	64,64,64,64	0
56	MG	DA	3249	1/1	0.86	0.16	37,37,37,37	0
56	MG	BA	3876	1/1	0.86	0.18	62,62,62,62	0
56	MG	BA	3470	1/1	0.86	0.15	46,46,46,46	0
56	MG	DA	3285	1/1	0.86	0.18	42,42,42,42	0
56	MG	BA	3657	1/1	0.86	0.19	65,65,65,65	0
56	MG	BA	3474	1/1	0.86	0.11	53,53,53,53	0
56	MG	AA	3109	1/1	0.86	0.25	60,60,60,60	0
56	MG	DA	3311	1/1	0.86	0.14	55,55,55,55	0
56	MG	BA	3104	1/1	0.86	0.21	58,58,58,58	0
56	MG	BA	3374	1/1	0.86	0.19	54,54,54,54	0
56	MG	DA	3329	1/1	0.86	0.15	51,51,51,51	0
56	MG	CA	3158	1/1	0.86	0.11	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3486	1/1	0.86	0.14	29,29,29,29	0
56	MG	BE	304	1/1	0.86	0.25	56,56,56,56	0
56	MG	BA	3698	1/1	0.86	0.16	55,55,55,55	0
56	MG	BA	3383	1/1	0.86	0.11	42,42,42,42	0
56	MG	BR	202	1/1	0.86	0.14	38,38,38,38	0
56	MG	DA	3633	1/1	0.86	0.15	50,50,50,50	0
56	MG	BA	3107	1/1	0.86	0.18	50,50,50,50	0
56	MG	DA	3668	1/1	0.86	0.17	61,61,61,61	0
56	MG	DA	3417	1/1	0.86	0.13	53,53,53,53	0
56	MG	DB	3002	1/1	0.86	0.14	68,68,68,68	0
56	MG	BA	3616	1/1	0.86	0.15	43,43,43,43	0
56	MG	DB	3014	1/1	0.86	0.23	61,61,61,61	0
56	MG	AA	3018	1/1	0.86	0.17	73,73,73,73	0
56	MG	AA	3050	1/1	0.86	0.27	67,67,67,67	0
56	MG	BA	3113	1/1	0.86	0.15	66,66,66,66	0
56	MG	CA	3011	1/1	0.86	0.19	56,56,56,56	0
56	MG	CA	3021	1/1	0.86	0.26	79,79,79,79	0
56	MG	BA	3808	1/1	0.86	0.13	40,40,40,40	0
56	MG	DA	3463	1/1	0.86	0.13	52,52,52,52	0
56	MG	AA	3054	1/1	0.86	0.24	68,68,68,68	0
56	MG	BA	3367	1/1	0.87	0.14	49,49,49,49	0
56	MG	CA	3183	1/1	0.87	0.23	69,69,69,69	0
56	MG	CA	3186	1/1	0.87	0.13	62,62,62,62	0
56	MG	AA	3096	1/1	0.87	0.14	60,60,60,60	0
56	MG	CA	3003	1/1	0.87	0.26	63,63,63,63	0
56	MG	BA	3803	1/1	0.87	0.20	67,67,67,67	0
56	MG	BA	3073	1/1	0.87	0.14	49,49,49,49	0
56	MG	BA	3722	1/1	0.87	0.12	52,52,52,52	0
56	MG	BA	3813	1/1	0.87	0.19	59,59,59,59	0
56	MG	CW	3001	1/1	0.87	0.13	57,57,57,57	0
56	MG	BA	3381	1/1	0.87	0.15	56,56,56,56	0
56	MG	AA	3005	1/1	0.87	0.14	66,66,66,66	0
56	MG	CX	3002	1/1	0.87	0.17	63,63,63,63	0
56	MG	BA	3639	1/1	0.87	0.14	59,59,59,59	0
56	MG	CA	3071	1/1	0.87	0.12	68,68,68,68	0
56	MG	BA	3209	1/1	0.87	0.23	58,58,58,58	0
56	MG	DA	3514	1/1	0.87	0.12	45,45,45,45	0
56	MG	DA	3034	1/1	0.87	0.12	51,51,51,51	0
56	MG	CA	3085	1/1	0.87	0.15	53,53,53,53	0
56	MG	BA	3237	1/1	0.87	0.20	57,57,57,57	0
56	MG	BA	3262	1/1	0.87	0.19	48,48,48,48	0
56	MG	BA	3589	1/1	0.87	0.20	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	DA	3143	1/1	0.87	0.20	56,56,56,56	0
56	MG	DA	3151	1/1	0.87	0.24	59,59,59,59	0
56	MG	DA	3546	1/1	0.87	0.13	53,53,53,53	0
56	MG	DA	3154	1/1	0.87	0.29	57,57,57,57	0
56	MG	BA	3748	1/1	0.87	0.28	58,58,58,58	0
56	MG	BA	3487	1/1	0.87	0.15	50,50,50,50	0
56	MG	DA	3220	1/1	0.87	0.25	69,69,69,69	0
56	MG	DA	3566	1/1	0.87	0.12	67,67,67,67	0
56	MG	DA	3229	1/1	0.87	0.18	43,43,43,43	0
56	MG	BA	3594	1/1	0.87	0.11	22,22,22,22	0
56	MG	CA	3125	1/1	0.87	0.11	61,61,61,61	0
56	MG	BA	3428	1/1	0.87	0.10	40,40,40,40	0
56	MG	BB	3016	1/1	0.87	0.13	49,49,49,49	0
56	MG	BB	3020	1/1	0.87	0.14	64,64,64,64	0
56	MG	DA	3278	1/1	0.87	0.17	49,49,49,49	0
56	MG	CA	3130	1/1	0.87	0.13	62,62,62,62	0
56	MG	BA	3675	1/1	0.87	0.12	38,38,38,38	0
56	MG	CA	3132	1/1	0.87	0.17	64,64,64,64	0
56	MG	CA	3137	1/1	0.87	0.33	66,66,66,66	0
56	MG	CA	3142	1/1	0.87	0.16	61,61,61,61	0
56	MG	DA	3306	1/1	0.87	0.08	33,33,33,33	0
56	MG	BA	3103	1/1	0.87	0.24	58,58,58,58	0
56	MG	DA	3322	1/1	0.87	0.09	41,41,41,41	0
56	MG	CA	3150	1/1	0.87	0.28	58,58,58,58	0
56	MG	DA	3327	1/1	0.87	0.16	48,48,48,48	0
56	MG	BA	3499	1/1	0.87	0.12	35,35,35,35	0
56	MG	BA	3439	1/1	0.87	0.18	53,53,53,53	0
56	MG	DA	3673	1/1	0.87	0.13	61,61,61,61	0
56	MG	AA	3019	1/1	0.87	0.14	54,54,54,54	0
56	MG	BA	3782	1/1	0.87	0.14	46,46,46,46	0
56	MG	DA	3369	1/1	0.87	0.18	58,58,58,58	0
56	MG	DA	3372	1/1	0.87	0.10	51,51,51,51	0
56	MG	DA	3380	1/1	0.87	0.13	49,49,49,49	0
56	MG	CA	3167	1/1	0.87	0.21	65,65,65,65	0
56	MG	CA	3171	1/1	0.87	0.14	52,52,52,52	0
56	MG	AA	3040	1/1	0.87	0.27	68,68,68,68	0
56	MG	AA	3137	1/1	0.87	0.11	64,64,64,64	0
56	MG	DA	3408	1/1	0.87	0.12	53,53,53,53	0
56	MG	DZ	5001	1/1	0.87	0.20	73,73,73,73	0
56	MG	AA	3216	1/1	0.87	0.19	68,68,68,68	0
56	MG	BZ	3003	1/1	0.87	0.19	51,51,51,51	0
56	MG	AA	3170	1/1	0.88	0.20	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3504	1/1	0.88	0.12	58,58,58,58	0
56	MG	CA	3161	1/1	0.88	0.15	61,61,61,61	0
56	MG	BA	3865	1/1	0.88	0.10	36,36,36,36	0
56	MG	BA	3465	1/1	0.88	0.18	43,43,43,43	0
56	MG	BA	3488	1/1	0.88	0.14	31,31,31,31	0
56	MG	CA	3172	1/1	0.88	0.14	54,54,54,54	0
56	MG	DA	3267	1/1	0.88	0.13	53,53,53,53	0
56	MG	BA	3557	1/1	0.88	0.11	41,41,41,41	0
56	MG	BA	3558	1/1	0.88	0.21	46,46,46,46	0
56	MG	BA	3906	1/1	0.88	0.20	48,48,48,48	0
56	MG	CA	3077	1/1	0.88	0.20	54,54,54,54	0
56	MG	BA	3623	1/1	0.88	0.09	48,48,48,48	0
56	MG	DA	3294	1/1	0.88	0.11	39,39,39,39	0
56	MG	BA	3568	1/1	0.88	0.15	56,56,56,56	0
56	MG	BA	3629	1/1	0.88	0.08	25,25,25,25	0
56	MG	BA	3016	1/1	0.88	0.23	51,51,51,51	0
56	MG	DA	3309	1/1	0.88	0.14	43,43,43,43	0
56	MG	CA	3091	1/1	0.88	0.19	67,67,67,67	0
56	MG	CA	3094	1/1	0.88	0.10	47,47,47,47	0
56	MG	CA	3099	1/1	0.88	0.24	72,72,72,72	0
56	MG	DA	3569	1/1	0.88	0.23	47,47,47,47	0
56	MG	DA	3326	1/1	0.88	0.13	34,34,34,34	0
56	MG	CF	3002	1/1	0.88	0.18	59,59,59,59	0
56	MG	CA	3102	1/1	0.88	0.17	52,52,52,52	0
56	MG	AA	3047	1/1	0.88	0.12	56,56,56,56	0
56	MG	DA	3340	1/1	0.88	0.14	45,45,45,45	0
56	MG	BA	3065	1/1	0.88	0.24	51,51,51,51	0
56	MG	CA	3115	1/1	0.88	0.16	60,60,60,60	0
56	MG	DA	3355	1/1	0.88	0.10	48,48,48,48	0
56	MG	DA	3604	1/1	0.88	0.11	50,50,50,50	0
56	MG	DA	3605	1/1	0.88	0.15	51,51,51,51	0
56	MG	AA	3231	1/1	0.88	0.28	61,61,61,61	0
56	MG	BA	3585	1/1	0.88	0.10	36,36,36,36	0
56	MG	BA	3801	1/1	0.88	0.09	27,27,27,27	0
56	MG	BA	3476	1/1	0.88	0.11	54,54,54,54	0
56	MG	DA	3390	1/1	0.88	0.10	42,42,42,42	0
56	MG	BG	205	1/1	0.88	0.08	40,40,40,40	0
56	MG	DA	3005	1/1	0.88	0.23	52,52,52,52	0
56	MG	AA	3165	1/1	0.88	0.08	57,57,57,57	0
56	MG	BA	3406	1/1	0.88	0.11	28,28,28,28	0
56	MG	DA	3050	1/1	0.88	0.12	45,45,45,45	0
56	MG	DA	3644	1/1	0.88	0.12	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3810	1/1	0.88	0.14	46,46,46,46	0
56	MG	BA	3658	1/1	0.88	0.15	44,44,44,44	0
56	MG	BA	3484	1/1	0.88	0.15	42,42,42,42	0
56	MG	BA	3533	1/1	0.88	0.14	47,47,47,47	0
56	MG	DA	3149	1/1	0.88	0.26	59,59,59,59	0
56	MG	DB	3011	1/1	0.88	0.24	60,60,60,60	0
56	MG	DA	3446	1/1	0.88	0.17	68,68,68,68	0
56	MG	DA	3150	1/1	0.88	0.18	42,42,42,42	0
56	MG	CA	3149	1/1	0.88	0.28	71,71,71,71	0
56	MG	BA	3610	1/1	0.88	0.12	60,60,60,60	0
56	MG	DA	3458	1/1	0.88	0.15	55,55,55,55	0
56	MG	BA	3840	1/1	0.88	0.13	50,50,50,50	0
56	MG	AA	3010	1/1	0.88	0.18	52,52,52,52	0
56	MG	DA	3217	1/1	0.88	0.27	63,63,63,63	0
56	MG	DA	3486	1/1	0.88	0.15	38,38,38,38	0
56	MG	DA	3490	1/1	0.88	0.09	51,51,51,51	0
56	MG	DA	3421	1/1	0.89	0.18	44,44,44,44	0
56	MG	AA	3002	1/1	0.89	0.16	55,55,55,55	0
56	MG	BA	3882	1/1	0.89	0.20	53,53,53,53	0
56	MG	AA	3150	1/1	0.89	0.16	66,66,66,66	0
56	MG	DA	3067	1/1	0.89	0.23	54,54,54,54	0
56	MG	DA	3445	1/1	0.89	0.11	45,45,45,45	0
56	MG	DA	3075	1/1	0.89	0.13	57,57,57,57	0
56	MG	DA	3076	1/1	0.89	0.15	44,44,44,44	0
56	MG	DA	3081	1/1	0.89	0.10	33,33,33,33	0
56	MG	DA	3453	1/1	0.89	0.12	51,51,51,51	0
56	MG	DA	3105	1/1	0.89	0.12	56,56,56,56	0
56	MG	DA	3457	1/1	0.89	0.10	30,30,30,30	0
56	MG	BA	3130	1/1	0.89	0.17	43,43,43,43	0
56	MG	CA	3118	1/1	0.89	0.16	63,63,63,63	0
56	MG	DA	3470	1/1	0.89	0.12	46,46,46,46	0
56	MG	BA	3161	1/1	0.89	0.10	46,46,46,46	0
56	MG	DA	3473	1/1	0.89	0.13	43,43,43,43	0
56	MG	DA	3477	1/1	0.89	0.11	51,51,51,51	0
56	MG	BB	3013	1/1	0.89	0.14	52,52,52,52	0
56	MG	DA	3147	1/1	0.89	0.09	53,53,53,53	0
56	MG	BA	3206	1/1	0.89	0.21	59,59,59,59	0
56	MG	DA	3500	1/1	0.89	0.19	67,67,67,67	0
56	MG	AA	3045	1/1	0.89	0.18	47,47,47,47	0
56	MG	AA	3026	1/1	0.89	0.28	50,50,50,50	0
56	MG	BA	3448	1/1	0.89	0.10	48,48,48,48	0
56	MG	BA	3450	1/1	0.89	0.16	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3162	1/1	0.89	0.09	48,48,48,48	0
56	MG	DA	3509	1/1	0.89	0.11	55,55,55,55	0
56	MG	AA	3203	1/1	0.89	0.18	59,59,59,59	0
56	MG	DA	3199	1/1	0.89	0.10	51,51,51,51	0
56	MG	DA	3513	1/1	0.89	0.10	54,54,54,54	0
56	MG	DA	3212	1/1	0.89	0.20	52,52,52,52	0
56	MG	DA	3216	1/1	0.89	0.10	48,48,48,48	0
56	MG	BA	3567	1/1	0.89	0.11	46,46,46,46	0
56	MG	AA	3163	1/1	0.89	0.23	53,53,53,53	0
56	MG	DA	3222	1/1	0.89	0.15	50,50,50,50	0
56	MG	AA	3027	1/1	0.89	0.35	60,60,60,60	0
56	MG	BA	3295	1/1	0.89	0.12	37,37,37,37	0
56	MG	BA	3666	1/1	0.89	0.17	74,74,74,74	0
56	MG	BW	202	1/1	0.89	0.20	49,49,49,49	0
56	MG	BA	3300	1/1	0.89	0.18	58,58,58,58	0
56	MG	DA	3252	1/1	0.89	0.14	57,57,57,57	0
56	MG	DA	3253	1/1	0.89	0.13	41,41,41,41	0
56	MG	BZ	3002	1/1	0.89	0.08	50,50,50,50	0
56	MG	DA	3562	1/1	0.89	0.14	49,49,49,49	0
56	MG	AA	3136	1/1	0.89	0.17	52,52,52,52	0
56	MG	BA	3583	1/1	0.89	0.18	35,35,35,35	0
56	MG	AA	3167	1/1	0.89	0.20	53,53,53,53	0
56	MG	CA	3169	1/1	0.89	0.16	60,60,60,60	0
56	MG	B5	105	1/1	0.89	0.10	52,52,52,52	0
56	MG	DA	3290	1/1	0.89	0.13	52,52,52,52	0
56	MG	BA	3351	1/1	0.89	0.11	33,33,33,33	0
56	MG	DA	3591	1/1	0.89	0.13	55,55,55,55	0
56	MG	DA	3295	1/1	0.89	0.10	38,38,38,38	0
56	MG	DA	3595	1/1	0.89	0.11	45,45,45,45	0
56	MG	BA	3067	1/1	0.89	0.28	62,62,62,62	0
56	MG	AA	3104	1/1	0.89	0.26	64,64,64,64	0
56	MG	AA	3107	1/1	0.89	0.13	53,53,53,53	0
56	MG	CA	3176	1/1	0.89	0.21	62,62,62,62	0
56	MG	DA	3607	1/1	0.89	0.11	35,35,35,35	0
56	MG	DA	3608	1/1	0.89	0.09	55,55,55,55	0
56	MG	CA	3017	1/1	0.89	0.21	56,56,56,56	0
56	MG	DA	3318	1/1	0.89	0.12	59,59,59,59	0
56	MG	DA	3321	1/1	0.89	0.15	39,39,39,39	0
56	MG	BA	3713	1/1	0.89	0.12	59,59,59,59	0
56	MG	CA	3025	1/1	0.89	0.19	51,51,51,51	0
56	MG	DA	3622	1/1	0.89	0.09	51,51,51,51	0
56	MG	DA	3626	1/1	0.89	0.22	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3095	1/1	0.89	0.12	43,43,43,43	0
56	MG	BA	3097	1/1	0.89	0.12	48,48,48,48	0
56	MG	AA	3177	1/1	0.89	0.18	57,57,57,57	0
56	MG	CA	3058	1/1	0.89	0.21	63,63,63,63	0
56	MG	CA	3194	1/1	0.89	0.20	66,66,66,66	0
56	MG	DA	3341	1/1	0.89	0.14	43,43,43,43	0
56	MG	DA	3655	1/1	0.89	0.21	57,57,57,57	0
56	MG	DA	3664	1/1	0.89	0.20	71,71,71,71	0
56	MG	CA	3059	1/1	0.89	0.17	58,58,58,58	0
56	MG	BA	3824	1/1	0.89	0.15	30,30,30,30	0
56	MG	CG	5001	1/1	0.89	0.13	64,64,64,64	0
56	MG	DA	3362	1/1	0.89	0.20	61,61,61,61	0
56	MG	BA	3614	1/1	0.89	0.09	53,53,53,53	0
56	MG	AB	3002	1/1	0.89	0.16	70,70,70,70	0
56	MG	BA	3721	1/1	0.89	0.21	52,52,52,52	0
56	MG	AA	3037	1/1	0.89	0.27	63,63,63,63	0
56	MG	DA	3386	1/1	0.89	0.15	46,46,46,46	0
56	MG	AE	3001	1/1	0.89	0.09	65,65,65,65	0
56	MG	BA	3866	1/1	0.89	0.10	54,54,54,54	0
56	MG	AA	3074	1/1	0.89	0.22	57,57,57,57	0
56	MG	BA	3420	1/1	0.89	0.08	47,47,47,47	0
56	MG	DV	201	1/1	0.89	0.27	51,51,51,51	0
56	MG	CA	3096	1/1	0.89	0.10	39,39,39,39	0
56	MG	BA	3732	1/1	0.89	0.09	24,24,24,24	0
56	MG	D5	101	1/1	0.89	0.10	45,45,45,45	0
56	MG	DA	3016	1/1	0.89	0.12	59,59,59,59	0
56	MG	DA	3053	1/1	0.90	0.14	43,43,43,43	0
56	MG	BA	3826	1/1	0.90	0.09	42,42,42,42	0
56	MG	DA	3071	1/1	0.90	0.11	41,41,41,41	0
56	MG	BA	3830	1/1	0.90	0.14	56,56,56,56	0
56	MG	BA	3466	1/1	0.90	0.19	46,46,46,46	0
56	MG	BA	3352	1/1	0.90	0.12	42,42,42,42	0
56	MG	BA	3578	1/1	0.90	0.07	23,23,23,23	0
56	MG	BA	3356	1/1	0.90	0.11	52,52,52,52	0
56	MG	AA	3059	1/1	0.90	0.22	60,60,60,60	0
56	MG	DA	3459	1/1	0.90	0.21	50,50,50,50	0
56	MG	DA	3462	1/1	0.90	0.10	42,42,42,42	0
56	MG	DA	3125	1/1	0.90	0.12	44,44,44,44	0
56	MG	DA	3128	1/1	0.90	0.09	45,45,45,45	0
56	MG	CA	3103	1/1	0.90	0.15	63,63,63,63	0
56	MG	BA	3472	1/1	0.90	0.10	31,31,31,31	0
56	MG	AY	3002	1/1	0.90	0.10	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3001	1/1	0.90	0.18	45,45,45,45	0
56	MG	AA	3189	1/1	0.90	0.13	53,53,53,53	0
56	MG	DA	3488	1/1	0.90	0.10	55,55,55,55	0
56	MG	BA	3132	1/1	0.90	0.13	57,57,57,57	0
56	MG	DA	3491	1/1	0.90	0.24	53,53,53,53	0
56	MG	AA	3077	1/1	0.90	0.34	60,60,60,60	0
56	MG	BA	3192	1/1	0.90	0.13	41,41,41,41	0
56	MG	BA	3405	1/1	0.90	0.15	42,42,42,42	0
56	MG	CA	3128	1/1	0.90	0.17	49,49,49,49	0
56	MG	BA	3194	1/1	0.90	0.08	37,37,37,37	0
56	MG	DA	3200	1/1	0.90	0.09	46,46,46,46	0
56	MG	BA	3031	1/1	0.90	0.12	40,40,40,40	0
56	MG	AA	3015	1/1	0.90	0.12	71,71,71,71	0
56	MG	AA	3200	1/1	0.90	0.18	61,61,61,61	0
56	MG	CA	3135	1/1	0.90	0.27	57,57,57,57	0
56	MG	BA	3495	1/1	0.90	0.12	40,40,40,40	0
56	MG	BB	3023	1/1	0.90	0.17	71,71,71,71	0
56	MG	CA	3143	1/1	0.90	0.21	65,65,65,65	0
56	MG	AA	3049	1/1	0.90	0.33	62,62,62,62	0
56	MG	BA	3242	1/1	0.90	0.12	60,60,60,60	0
56	MG	BB	3027	1/1	0.90	0.14	58,58,58,58	0
56	MG	DA	3532	1/1	0.90	0.21	61,61,61,61	0
56	MG	DA	3535	1/1	0.90	0.11	41,41,41,41	0
56	MG	CA	3153	1/1	0.90	0.14	60,60,60,60	0
56	MG	BA	3747	1/1	0.90	0.13	57,57,57,57	0
56	MG	AA	3058	1/1	0.90	0.14	54,54,54,54	0
56	MG	DA	3272	1/1	0.90	0.09	52,52,52,52	0
56	MG	AA	3067	1/1	0.90	0.19	56,56,56,56	0
56	MG	BF	312	1/1	0.90	0.14	49,49,49,49	0
56	MG	BA	3628	1/1	0.90	0.11	51,51,51,51	0
56	MG	DA	3280	1/1	0.90	0.12	57,57,57,57	0
56	MG	BA	3441	1/1	0.90	0.09	26,26,26,26	0
56	MG	DA	3568	1/1	0.90	0.12	30,30,30,30	0
56	MG	BQ	3006	1/1	0.90	0.12	53,53,53,53	0
56	MG	BA	3522	1/1	0.90	0.12	50,50,50,50	0
56	MG	DA	3292	1/1	0.90	0.10	53,53,53,53	0
56	MG	BA	3525	1/1	0.90	0.12	59,59,59,59	0
56	MG	DA	3579	1/1	0.90	0.11	48,48,48,48	0
56	MG	BA	3762	1/1	0.90	0.11	60,60,60,60	0
56	MG	DA	3583	1/1	0.90	0.11	54,54,54,54	0
56	MG	BA	3633	1/1	0.90	0.09	42,42,42,42	0
56	MG	BA	3442	1/1	0.90	0.11	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3304	1/1	0.90	0.08	40,40,40,40	0
56	MG	DA	3594	1/1	0.90	0.16	56,56,56,56	0
56	MG	AR	101	1/1	0.90	0.22	56,56,56,56	0
56	MG	BA	3535	1/1	0.90	0.10	46,46,46,46	0
56	MG	BA	3783	1/1	0.90	0.08	33,33,33,33	0
56	MG	B8	102	1/1	0.90	0.14	42,42,42,42	0
56	MG	CA	3184	1/1	0.90	0.32	68,68,68,68	0
56	MG	BA	3540	1/1	0.90	0.09	50,50,50,50	0
56	MG	CA	3187	1/1	0.90	0.09	51,51,51,51	0
56	MG	AA	3214	1/1	0.90	0.17	60,60,60,60	0
56	MG	CA	3190	1/1	0.90	0.14	67,67,67,67	0
56	MG	BA	3314	1/1	0.90	0.28	60,60,60,60	0
56	MG	AA	3120	1/1	0.90	0.10	67,67,67,67	0
56	MG	AA	3073	1/1	0.90	0.13	53,53,53,53	0
56	MG	BA	3663	1/1	0.90	0.08	39,39,39,39	0
56	MG	CA	3200	1/1	0.90	0.25	62,62,62,62	0
56	MG	CA	3023	1/1	0.90	0.26	60,60,60,60	0
56	MG	BA	3802	1/1	0.90	0.10	27,27,27,27	0
56	MG	BA	3455	1/1	0.90	0.11	31,31,31,31	0
56	MG	DA	3363	1/1	0.90	0.08	42,42,42,42	0
56	MG	DA	3639	1/1	0.90	0.15	57,57,57,57	0
56	MG	DA	3368	1/1	0.90	0.11	47,47,47,47	0
56	MG	BA	3805	1/1	0.90	0.09	32,32,32,32	0
56	MG	DA	3648	1/1	0.90	0.12	39,39,39,39	0
56	MG	DA	3371	1/1	0.90	0.09	42,42,42,42	0
56	MG	CR	3001	1/1	0.90	0.17	64,64,64,64	0
56	MG	BA	3349	1/1	0.90	0.13	42,42,42,42	0
56	MG	CA	3057	1/1	0.90	0.15	59,59,59,59	0
56	MG	BA	3669	1/1	0.90	0.15	44,44,44,44	0
56	MG	BA	3464	1/1	0.90	0.07	25,25,25,25	0
56	MG	CA	3062	1/1	0.90	0.25	64,64,64,64	0
56	MG	DB	3007	1/1	0.90	0.21	64,64,64,64	0
56	MG	CX	3005	1/1	0.90	0.25	60,60,60,60	0
56	MG	DA	3400	1/1	0.90	0.10	36,36,36,36	0
56	MG	DB	3016	1/1	0.90	0.19	61,61,61,61	0
56	MG	CA	3069	1/1	0.90	0.23	57,57,57,57	0
56	MG	DA	3407	1/1	0.90	0.18	67,67,67,67	0
56	MG	AA	3124	1/1	0.90	0.12	58,58,58,58	0
56	MG	DA	3410	1/1	0.90	0.26	55,55,55,55	0
56	MG	BA	3569	1/1	0.90	0.14	48,48,48,48	0
56	MG	DQ	3003	1/1	0.90	0.13	57,57,57,57	0
56	MG	DA	3415	1/1	0.90	0.14	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DU	3004	1/1	0.90	0.08	48,48,48,48	0
56	MG	DA	3007	1/1	0.90	0.12	54,54,54,54	0
56	MG	BA	3683	1/1	0.90	0.09	37,37,37,37	0
56	MG	CA	3084	1/1	0.90	0.16	57,57,57,57	0
56	MG	BA	3570	1/1	0.90	0.17	51,51,51,51	0
57	UAM	AA	3232	30/30	0.90	0.16	44,65,77,80	0
56	MG	BA	3825	1/1	0.90	0.10	39,39,39,39	0
56	MG	AA	3113	1/1	0.91	0.27	55,55,55,55	0
56	MG	AA	3233	1/1	0.91	0.19	52,52,52,52	0
56	MG	DA	3397	1/1	0.91	0.08	53,53,53,53	0
56	MG	AA	3042	1/1	0.91	0.25	47,47,47,47	0
56	MG	DA	3401	1/1	0.91	0.11	37,37,37,37	0
56	MG	CL	202	1/1	0.91	0.12	50,50,50,50	0
56	MG	CP	101	1/1	0.91	0.21	57,57,57,57	0
56	MG	BA	3800	1/1	0.91	0.09	29,29,29,29	0
56	MG	CA	3026	1/1	0.91	0.24	56,56,56,56	0
56	MG	CA	3029	1/1	0.91	0.17	60,60,60,60	0
56	MG	CA	3030	1/1	0.91	0.15	61,61,61,61	0
56	MG	CA	3035	1/1	0.91	0.20	49,49,49,49	0
56	MG	DA	3420	1/1	0.91	0.12	45,45,45,45	0
56	MG	CA	3036	1/1	0.91	0.25	64,64,64,64	0
56	MG	AA	3187	1/1	0.91	0.26	65,65,65,65	0
56	MG	AA	3043	1/1	0.91	0.19	56,56,56,56	0
56	MG	CA	3053	1/1	0.91	0.21	61,61,61,61	0
56	MG	AA	3044	1/1	0.91	0.24	54,54,54,54	0
56	MG	DA	3433	1/1	0.91	0.10	40,40,40,40	0
56	MG	DA	3442	1/1	0.91	0.08	46,46,46,46	0
56	MG	BA	3378	1/1	0.91	0.13	43,43,43,43	0
56	MG	AA	3153	1/1	0.91	0.08	58,58,58,58	0
56	MG	AA	3197	1/1	0.91	0.23	65,65,65,65	0
56	MG	DA	3039	1/1	0.91	0.08	29,29,29,29	0
56	MG	BA	3386	1/1	0.91	0.09	47,47,47,47	0
56	MG	CA	3064	1/1	0.91	0.24	53,53,53,53	0
56	MG	BA	3398	1/1	0.91	0.10	58,58,58,58	0
56	MG	DA	3060	1/1	0.91	0.11	53,53,53,53	0
56	MG	DA	3066	1/1	0.91	0.10	49,49,49,49	0
56	MG	BA	3817	1/1	0.91	0.11	50,50,50,50	0
56	MG	DA	3068	1/1	0.91	0.27	58,58,58,58	0
56	MG	AA	3154	1/1	0.91	0.09	44,44,44,44	0
56	MG	DA	3471	1/1	0.91	0.09	49,49,49,49	0
56	MG	AW	104	1/1	0.91	0.13	64,64,64,64	0
56	MG	CA	3079	1/1	0.91	0.15	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	CA	3081	1/1	0.91	0.23	56,56,56,56	0
56	MG	BA	3821	1/1	0.91	0.14	42,42,42,42	0
56	MG	DA	3106	1/1	0.91	0.21	63,63,63,63	0
56	MG	DA	3487	1/1	0.91	0.12	48,48,48,48	0
56	MG	DA	3110	1/1	0.91	0.13	38,38,38,38	0
56	MG	AA	3156	1/1	0.91	0.20	62,62,62,62	0
56	MG	BA	3414	1/1	0.91	0.10	32,32,32,32	0
56	MG	BA	3545	1/1	0.91	0.07	43,43,43,43	0
56	MG	DA	3502	1/1	0.91	0.10	63,63,63,63	0
56	MG	BA	3133	1/1	0.91	0.13	45,45,45,45	0
56	MG	DA	3132	1/1	0.91	0.22	50,50,50,50	0
56	MG	BA	3678	1/1	0.91	0.07	25,25,25,25	0
56	MG	DA	3137	1/1	0.91	0.09	45,45,45,45	0
56	MG	CA	3092	1/1	0.91	0.30	63,63,63,63	0
56	MG	CA	3093	1/1	0.91	0.10	65,65,65,65	0
56	MG	BA	3140	1/1	0.91	0.17	49,49,49,49	0
56	MG	BA	3689	1/1	0.91	0.15	44,44,44,44	0
56	MG	CA	3098	1/1	0.91	0.11	57,57,57,57	0
56	MG	BA	3553	1/1	0.91	0.07	19,19,19,19	0
56	MG	DA	3515	1/1	0.91	0.17	59,59,59,59	0
56	MG	DA	3516	1/1	0.91	0.09	56,56,56,56	0
56	MG	CA	3101	1/1	0.91	0.23	60,60,60,60	0
56	MG	BA	3851	1/1	0.91	0.12	33,33,33,33	0
56	MG	BA	3861	1/1	0.91	0.14	34,34,34,34	0
56	MG	DA	3176	1/1	0.91	0.15	36,36,36,36	0
56	MG	DA	3188	1/1	0.91	0.09	44,44,44,44	0
56	MG	DA	3191	1/1	0.91	0.09	52,52,52,52	0
56	MG	BA	3423	1/1	0.91	0.09	34,34,34,34	0
56	MG	CA	3112	1/1	0.91	0.22	65,65,65,65	0
56	MG	DA	3210	1/1	0.91	0.09	30,30,30,30	0
56	MG	BA	3159	1/1	0.91	0.12	50,50,50,50	0
56	MG	BA	3700	1/1	0.91	0.12	51,51,51,51	0
56	MG	DA	3551	1/1	0.91	0.10	53,53,53,53	0
56	MG	CA	3116	1/1	0.91	0.14	54,54,54,54	0
56	MG	AA	3025	1/1	0.91	0.11	50,50,50,50	0
56	MG	BA	3705	1/1	0.91	0.12	56,56,56,56	0
56	MG	DA	3228	1/1	0.91	0.08	38,38,38,38	0
56	MG	BA	3171	1/1	0.91	0.17	42,42,42,42	0
56	MG	DA	3237	1/1	0.91	0.11	47,47,47,47	0
56	MG	BA	3436	1/1	0.91	0.20	54,54,54,54	0
56	MG	BA	3885	1/1	0.91	0.20	55,55,55,55	0
56	MG	DA	3246	1/1	0.91	0.10	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3901	1/1	0.91	0.10	39,39,39,39	0
56	MG	BA	3903	1/1	0.91	0.11	42,42,42,42	0
56	MG	AA	3078	1/1	0.91	0.22	47,47,47,47	0
56	MG	AA	3207	1/1	0.91	0.10	53,53,53,53	0
56	MG	DA	3585	1/1	0.91	0.10	51,51,51,51	0
56	MG	DA	3263	1/1	0.91	0.08	40,40,40,40	0
56	MG	BA	3203	1/1	0.91	0.21	41,41,41,41	0
56	MG	BA	3443	1/1	0.91	0.07	22,22,22,22	0
56	MG	CA	3136	1/1	0.91	0.10	59,59,59,59	0
56	MG	AA	3125	1/1	0.91	0.08	52,52,52,52	0
56	MG	AA	3126	1/1	0.91	0.28	54,54,54,54	0
56	MG	BA	3011	1/1	0.91	0.09	37,37,37,37	0
56	MG	BA	3210	1/1	0.91	0.16	53,53,53,53	0
56	MG	CA	3147	1/1	0.91	0.15	64,64,64,64	0
56	MG	BB	3024	1/1	0.91	0.11	60,60,60,60	0
56	MG	BA	3217	1/1	0.91	0.13	49,49,49,49	0
56	MG	CA	3151	1/1	0.91	0.13	60,60,60,60	0
56	MG	AA	3130	1/1	0.91	0.19	62,62,62,62	0
56	MG	DA	3297	1/1	0.91	0.10	42,42,42,42	0
56	MG	AA	3131	1/1	0.91	0.11	56,56,56,56	0
56	MG	BD	303	1/1	0.91	0.12	40,40,40,40	0
56	MG	BD	304	1/1	0.91	0.24	49,49,49,49	0
56	MG	AA	3079	1/1	0.91	0.24	60,60,60,60	0
56	MG	BA	3268	1/1	0.91	0.11	46,46,46,46	0
56	MG	BA	3600	1/1	0.91	0.12	43,43,43,43	0
56	MG	BA	3042	1/1	0.91	0.17	43,43,43,43	0
56	MG	DA	3320	1/1	0.91	0.17	48,48,48,48	0
56	MG	DA	3635	1/1	0.91	0.12	44,44,44,44	0
56	MG	BF	313	1/1	0.91	0.14	49,49,49,49	0
56	MG	DA	3640	1/1	0.91	0.10	56,56,56,56	0
56	MG	BA	3744	1/1	0.91	0.12	41,41,41,41	0
56	MG	BA	3285	1/1	0.91	0.17	48,48,48,48	0
56	MG	BA	3288	1/1	0.91	0.25	51,51,51,51	0
56	MG	DA	3649	1/1	0.91	0.11	55,55,55,55	0
56	MG	DA	3650	1/1	0.91	0.14	53,53,53,53	0
56	MG	BA	3058	1/1	0.91	0.12	48,48,48,48	0
56	MG	DA	3659	1/1	0.91	0.24	53,53,53,53	0
56	MG	BA	3062	1/1	0.91	0.10	41,41,41,41	0
56	MG	AA	3220	1/1	0.91	0.19	57,57,57,57	0
56	MG	DA	3334	1/1	0.91	0.07	44,44,44,44	0
56	MG	BA	3066	1/1	0.91	0.17	54,54,54,54	0
56	MG	BA	3347	1/1	0.91	0.10	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3344	1/1	0.91	0.10	54,54,54,54	0
56	MG	DB	3004	1/1	0.91	0.22	57,57,57,57	0
56	MG	DA	3348	1/1	0.91	0.10	32,32,32,32	0
56	MG	B0	103	1/1	0.91	0.11	49,49,49,49	0
56	MG	CA	3185	1/1	0.91	0.24	59,59,59,59	0
56	MG	BA	3621	1/1	0.91	0.14	50,50,50,50	0
56	MG	DA	3358	1/1	0.91	0.10	45,45,45,45	0
56	MG	B1	102	1/1	0.91	0.11	59,59,59,59	0
56	MG	DB	3019	1/1	0.91	0.30	60,60,60,60	0
56	MG	AA	3084	1/1	0.91	0.17	53,53,53,53	0
56	MG	DE	302	1/1	0.91	0.13	52,52,52,52	0
56	MG	DA	3367	1/1	0.91	0.18	57,57,57,57	0
56	MG	AA	3041	1/1	0.91	0.10	53,53,53,53	0
56	MG	DF	306	1/1	0.91	0.25	46,46,46,46	0
56	MG	BA	3625	1/1	0.91	0.09	20,20,20,20	0
56	MG	BA	3080	1/1	0.91	0.09	41,41,41,41	0
56	MG	AA	3228	1/1	0.91	0.29	58,58,58,58	0
56	MG	BA	3354	1/1	0.91	0.18	53,53,53,53	0
56	MG	DW	3003	1/1	0.91	0.12	47,47,47,47	0
56	MG	CA	3199	1/1	0.91	0.19	51,51,51,51	0
56	MG	DA	3385	1/1	0.91	0.12	47,47,47,47	0
56	MG	CA	3009	1/1	0.91	0.18	46,46,46,46	0
56	MG	BA	3355	1/1	0.91	0.12	35,35,35,35	0
56	MG	DA	3391	1/1	0.91	0.10	50,50,50,50	0
56	MG	DA	3405	1/1	0.92	0.11	44,44,44,44	0
56	MG	BA	3267	1/1	0.92	0.20	51,51,51,51	0
56	MG	BA	3390	1/1	0.92	0.06	33,33,33,33	0
56	MG	DA	3409	1/1	0.92	0.06	36,36,36,36	0
56	MG	CA	3100	1/1	0.92	0.16	65,65,65,65	0
56	MG	DA	3087	1/1	0.92	0.10	48,48,48,48	0
56	MG	DA	3100	1/1	0.92	0.10	46,46,46,46	0
56	MG	DA	3101	1/1	0.92	0.07	46,46,46,46	0
56	MG	DA	3418	1/1	0.92	0.14	44,44,44,44	0
56	MG	DA	3419	1/1	0.92	0.11	42,42,42,42	0
56	MG	BA	3769	1/1	0.92	0.10	46,46,46,46	0
56	MG	BA	3770	1/1	0.92	0.17	54,54,54,54	0
56	MG	BA	3129	1/1	0.92	0.08	37,37,37,37	0
56	MG	CA	3106	1/1	0.92	0.20	67,67,67,67	0
56	MG	BA	3400	1/1	0.92	0.10	32,32,32,32	0
56	MG	DA	3120	1/1	0.92	0.10	47,47,47,47	0
56	MG	DA	3122	1/1	0.92	0.11	51,51,51,51	0
56	MG	DA	3437	1/1	0.92	0.08	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3438	1/1	0.92	0.14	42,42,42,42	0
56	MG	BA	3473	1/1	0.92	0.20	59,59,59,59	0
56	MG	BE	309	1/1	0.92	0.10	31,31,31,31	0
56	MG	DA	3129	1/1	0.92	0.12	37,37,37,37	0
56	MG	DA	3131	1/1	0.92	0.13	48,48,48,48	0
56	MG	BA	3668	1/1	0.92	0.10	48,48,48,48	0
56	MG	BF	301	1/1	0.92	0.12	41,41,41,41	0
56	MG	AA	3038	1/1	0.92	0.27	55,55,55,55	0
56	MG	DA	3142	1/1	0.92	0.11	50,50,50,50	0
56	MG	BA	3789	1/1	0.92	0.12	23,23,23,23	0
56	MG	DA	3145	1/1	0.92	0.13	47,47,47,47	0
56	MG	CA	3122	1/1	0.92	0.19	66,66,66,66	0
56	MG	BG	204	1/1	0.92	0.09	58,58,58,58	0
56	MG	BA	3670	1/1	0.92	0.18	57,57,57,57	0
56	MG	BI	3001	1/1	0.92	0.09	60,60,60,60	0
56	MG	DA	3153	1/1	0.92	0.10	43,43,43,43	0
56	MG	BO	3001	1/1	0.92	0.13	62,62,62,62	0
56	MG	DA	3155	1/1	0.92	0.09	41,41,41,41	0
56	MG	BO	3002	1/1	0.92	0.22	50,50,50,50	0
56	MG	DA	3160	1/1	0.92	0.21	38,38,38,38	0
56	MG	BO	3005	1/1	0.92	0.11	61,61,61,61	0
56	MG	DA	3163	1/1	0.92	0.24	52,52,52,52	0
56	MG	DA	3165	1/1	0.92	0.12	27,27,27,27	0
56	MG	AA	3192	1/1	0.92	0.13	50,50,50,50	0
56	MG	BA	3672	1/1	0.92	0.07	24,24,24,24	0
56	MG	DA	3179	1/1	0.92	0.12	42,42,42,42	0
56	MG	DA	3180	1/1	0.92	0.23	57,57,57,57	0
56	MG	DA	3183	1/1	0.92	0.16	44,44,44,44	0
56	MG	BQ	3007	1/1	0.92	0.11	44,44,44,44	0
56	MG	AX	3003	1/1	0.92	0.17	50,50,50,50	0
56	MG	AX	3005	1/1	0.92	0.19	60,60,60,60	0
56	MG	BX	3004	1/1	0.92	0.28	48,48,48,48	0
56	MG	DA	3209	1/1	0.92	0.19	45,45,45,45	0
56	MG	BY	502	1/1	0.92	0.13	45,45,45,45	0
56	MG	DA	3512	1/1	0.92	0.24	54,54,54,54	0
56	MG	BA	3415	1/1	0.92	0.08	33,33,33,33	0
56	MG	DA	3215	1/1	0.92	0.12	60,60,60,60	0
56	MG	BA	3680	1/1	0.92	0.08	32,32,32,32	0
56	MG	BA	3148	1/1	0.92	0.09	36,36,36,36	0
56	MG	B0	101	1/1	0.92	0.23	44,44,44,44	0
56	MG	DA	3221	1/1	0.92	0.13	46,46,46,46	0
56	MG	BA	3686	1/1	0.92	0.10	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3226	1/1	0.92	0.21	54,54,54,54	0
56	MG	B0	105	1/1	0.92	0.13	52,52,52,52	0
56	MG	AA	3030	1/1	0.92	0.27	49,49,49,49	0
56	MG	AA	3033	1/1	0.92	0.15	55,55,55,55	0
56	MG	CA	3159	1/1	0.92	0.15	61,61,61,61	0
56	MG	BA	3425	1/1	0.92	0.08	60,60,60,60	0
56	MG	BA	3592	1/1	0.92	0.13	27,27,27,27	0
56	MG	DA	3548	1/1	0.92	0.13	55,55,55,55	0
56	MG	B6	101	1/1	0.92	0.15	47,47,47,47	0
56	MG	DA	3550	1/1	0.92	0.10	63,63,63,63	0
56	MG	CA	3166	1/1	0.92	0.13	53,53,53,53	0
56	MG	AA	3157	1/1	0.92	0.21	39,39,39,39	0
56	MG	CA	3001	1/1	0.92	0.15	67,67,67,67	0
56	MG	BA	3703	1/1	0.92	0.10	55,55,55,55	0
56	MG	BA	3182	1/1	0.92	0.20	59,59,59,59	0
56	MG	CA	3006	1/1	0.92	0.10	62,62,62,62	0
56	MG	AA	3175	1/1	0.92	0.11	62,62,62,62	0
56	MG	BA	3435	1/1	0.92	0.19	60,60,60,60	0
56	MG	CA	3010	1/1	0.92	0.28	52,52,52,52	0
56	MG	CA	3177	1/1	0.92	0.13	64,64,64,64	0
56	MG	BA	3350	1/1	0.92	0.08	29,29,29,29	0
56	MG	CA	3181	1/1	0.92	0.15	55,55,55,55	0
56	MG	CA	3014	1/1	0.92	0.13	51,51,51,51	0
56	MG	BA	3438	1/1	0.92	0.08	27,27,27,27	0
56	MG	BA	3612	1/1	0.92	0.17	53,53,53,53	0
56	MG	AA	3116	1/1	0.92	0.14	58,58,58,58	0
56	MG	DA	3589	1/1	0.92	0.09	50,50,50,50	0
56	MG	BA	3842	1/1	0.92	0.14	43,43,43,43	0
56	MG	DA	3298	1/1	0.92	0.10	50,50,50,50	0
56	MG	BA	3843	1/1	0.92	0.11	34,34,34,34	0
56	MG	CA	3028	1/1	0.92	0.17	58,58,58,58	0
56	MG	BA	3512	1/1	0.92	0.10	57,57,57,57	0
56	MG	BA	3440	1/1	0.92	0.09	32,32,32,32	0
56	MG	DA	3600	1/1	0.92	0.07	48,48,48,48	0
56	MG	DA	3602	1/1	0.92	0.12	44,44,44,44	0
56	MG	DA	3307	1/1	0.92	0.08	41,41,41,41	0
56	MG	CA	3033	1/1	0.92	0.10	65,65,65,65	0
56	MG	BA	3518	1/1	0.92	0.10	57,57,57,57	0
56	MG	DA	3314	1/1	0.92	0.09	38,38,38,38	0
56	MG	DA	3317	1/1	0.92	0.15	56,56,56,56	0
56	MG	BA	3857	1/1	0.92	0.13	46,46,46,46	0
56	MG	CA	3196	1/1	0.92	0.11	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3613	1/1	0.92	0.13	44,44,44,44	0
56	MG	DA	3618	1/1	0.92	0.10	49,49,49,49	0
56	MG	CA	3039	1/1	0.92	0.14	55,55,55,55	0
56	MG	AA	3007	1/1	0.92	0.19	50,50,50,50	0
56	MG	DA	3324	1/1	0.92	0.15	47,47,47,47	0
56	MG	DA	3625	1/1	0.92	0.10	50,50,50,50	0
56	MG	BA	3101	1/1	0.92	0.12	42,42,42,42	0
56	MG	AA	3181	1/1	0.92	0.17	70,70,70,70	0
56	MG	DA	3630	1/1	0.92	0.12	45,45,45,45	0
56	MG	BA	3730	1/1	0.92	0.13	45,45,45,45	0
56	MG	BA	3872	1/1	0.92	0.11	42,42,42,42	0
56	MG	BA	3529	1/1	0.92	0.11	53,53,53,53	0
56	MG	DA	3634	1/1	0.92	0.16	62,62,62,62	0
56	MG	DA	3331	1/1	0.92	0.08	30,30,30,30	0
56	MG	DA	3636	1/1	0.92	0.12	55,55,55,55	0
56	MG	DA	3332	1/1	0.92	0.15	53,53,53,53	0
56	MG	BA	3875	1/1	0.92	0.17	51,51,51,51	0
56	MG	AA	3098	1/1	0.92	0.11	60,60,60,60	0
56	MG	DA	3642	1/1	0.92	0.09	40,40,40,40	0
56	MG	CT	3001	1/1	0.92	0.16	46,46,46,46	0
56	MG	AA	3184	1/1	0.92	0.14	60,60,60,60	0
56	MG	DA	3347	1/1	0.92	0.09	38,38,38,38	0
56	MG	CA	3065	1/1	0.92	0.26	58,58,58,58	0
56	MG	DA	3653	1/1	0.92	0.10	46,46,46,46	0
56	MG	BA	3736	1/1	0.92	0.17	45,45,45,45	0
56	MG	DA	3352	1/1	0.92	0.13	35,35,35,35	0
56	MG	DA	3662	1/1	0.92	0.19	52,52,52,52	0
56	MG	BA	3211	1/1	0.92	0.34	63,63,63,63	0
56	MG	DA	3354	1/1	0.92	0.08	34,34,34,34	0
56	MG	BA	3894	1/1	0.92	0.20	44,44,44,44	0
56	MG	CA	3075	1/1	0.92	0.09	52,52,52,52	0
56	MG	DA	3360	1/1	0.92	0.11	47,47,47,47	0
56	MG	BA	3897	1/1	0.92	0.11	49,49,49,49	0
56	MG	BA	3028	1/1	0.92	0.09	45,45,45,45	0
56	MG	DB	3005	1/1	0.92	0.20	61,61,61,61	0
56	MG	DA	3366	1/1	0.92	0.21	53,53,53,53	0
56	MG	DB	3008	1/1	0.92	0.18	55,55,55,55	0
56	MG	BA	3543	1/1	0.92	0.09	48,48,48,48	0
56	MG	AA	3164	1/1	0.92	0.21	62,62,62,62	0
56	MG	BB	3002	1/1	0.92	0.15	43,43,43,43	0
56	MG	DA	3018	1/1	0.92	0.09	45,45,45,45	0
56	MG	BA	3632	1/1	0.92	0.10	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3379	1/1	0.92	0.11	46,46,46,46	0
56	MG	DB	3021	1/1	0.92	0.15	67,67,67,67	0
56	MG	BA	3546	1/1	0.92	0.09	47,47,47,47	0
56	MG	DA	3381	1/1	0.92	0.10	47,47,47,47	0
56	MG	AA	3135	1/1	0.92	0.13	54,54,54,54	0
56	MG	DA	3043	1/1	0.92	0.08	39,39,39,39	0
56	MG	DF	304	1/1	0.92	0.07	38,38,38,38	0
56	MG	DA	3048	1/1	0.92	0.07	46,46,46,46	0
56	MG	DP	201	1/1	0.92	0.11	57,57,57,57	0
56	MG	DA	3387	1/1	0.92	0.09	46,46,46,46	0
56	MG	BA	3248	1/1	0.92	0.09	47,47,47,47	0
56	MG	DU	3003	1/1	0.92	0.12	45,45,45,45	0
56	MG	BA	3051	1/1	0.92	0.16	51,51,51,51	0
56	MG	BA	3554	1/1	0.92	0.14	48,48,48,48	0
56	MG	BA	3263	1/1	0.92	0.15	42,42,42,42	0
56	MG	CA	3095	1/1	0.92	0.17	46,46,46,46	0
56	MG	BA	3385	1/1	0.92	0.05	32,32,32,32	0
56	MG	D3	3001	1/1	0.92	0.12	62,62,62,62	0
56	MG	CA	3097	1/1	0.92	0.08	43,43,43,43	0
56	MG	DA	3403	1/1	0.92	0.09	46,46,46,46	0
56	MG	DA	3073	1/1	0.92	0.10	45,45,45,45	0
56	MG	AA	3144	1/1	0.93	0.09	47,47,47,47	0
56	MG	BA	3645	1/1	0.93	0.13	57,57,57,57	0
56	MG	BA	3652	1/1	0.93	0.14	46,46,46,46	0
56	MG	BA	3654	1/1	0.93	0.15	54,54,54,54	0
56	MG	BU	201	1/1	0.93	0.14	39,39,39,39	0
56	MG	BA	3655	1/1	0.93	0.11	44,44,44,44	0
56	MG	CA	3138	1/1	0.93	0.09	59,59,59,59	0
56	MG	DA	3456	1/1	0.93	0.11	55,55,55,55	0
56	MG	CA	3139	1/1	0.93	0.10	61,61,61,61	0
56	MG	BA	3534	1/1	0.93	0.16	54,54,54,54	0
56	MG	BX	3005	1/1	0.93	0.08	42,42,42,42	0
56	MG	DA	3460	1/1	0.93	0.11	51,51,51,51	0
56	MG	DA	3461	1/1	0.93	0.07	48,48,48,48	0
56	MG	DA	3181	1/1	0.93	0.16	52,52,52,52	0
56	MG	BA	3427	1/1	0.93	0.10	57,57,57,57	0
56	MG	DA	3184	1/1	0.93	0.20	37,37,37,37	0
56	MG	CA	3145	1/1	0.93	0.21	46,46,46,46	0
56	MG	BY	503	1/1	0.93	0.07	47,47,47,47	0
56	MG	DA	3193	1/1	0.93	0.13	59,59,59,59	0
56	MG	CA	3148	1/1	0.93	0.08	50,50,50,50	0
56	MG	BA	3114	1/1	0.93	0.28	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	BA	3661	1/1	0.93	0.08	47,47,47,47	0
56	MG	BA	3293	1/1	0.93	0.08	42,42,42,42	0
56	MG	BA	3434	1/1	0.93	0.12	41,41,41,41	0
56	MG	DA	3214	1/1	0.93	0.17	53,53,53,53	0
56	MG	AA	3076	1/1	0.93	0.31	58,58,58,58	0
56	MG	CA	3157	1/1	0.93	0.13	72,72,72,72	0
56	MG	AA	3039	1/1	0.93	0.22	51,51,51,51	0
56	MG	DA	3218	1/1	0.93	0.30	62,62,62,62	0
56	MG	BA	3301	1/1	0.93	0.12	47,47,47,47	0
56	MG	BA	3815	1/1	0.93	0.09	51,51,51,51	0
56	MG	B2	3002	1/1	0.93	0.10	43,43,43,43	0
56	MG	DA	3223	1/1	0.93	0.14	51,51,51,51	0
56	MG	BA	3017	1/1	0.93	0.14	52,52,52,52	0
56	MG	BA	3316	1/1	0.93	0.07	43,43,43,43	0
56	MG	BA	3020	1/1	0.93	0.08	46,46,46,46	0
56	MG	BA	3555	1/1	0.93	0.15	64,64,64,64	0
56	MG	BA	3322	1/1	0.93	0.26	57,57,57,57	0
56	MG	DA	3242	1/1	0.93	0.09	40,40,40,40	0
56	MG	CA	3002	1/1	0.93	0.10	55,55,55,55	0
56	MG	BA	3330	1/1	0.93	0.13	41,41,41,41	0
56	MG	AA	3020	1/1	0.93	0.08	45,45,45,45	0
56	MG	BA	3566	1/1	0.93	0.07	25,25,25,25	0
56	MG	DA	3251	1/1	0.93	0.09	43,43,43,43	0
56	MG	BA	3022	1/1	0.93	0.08	40,40,40,40	0
56	MG	BA	3839	1/1	0.93	0.08	47,47,47,47	0
56	MG	CA	3179	1/1	0.93	0.11	49,49,49,49	0
56	MG	DA	3265	1/1	0.93	0.09	39,39,39,39	0
56	MG	AA	3230	1/1	0.93	0.15	56,56,56,56	0
56	MG	DA	3269	1/1	0.93	0.11	54,54,54,54	0
56	MG	DA	3545	1/1	0.93	0.11	52,52,52,52	0
56	MG	BA	3841	1/1	0.93	0.17	56,56,56,56	0
56	MG	DA	3275	1/1	0.93	0.09	33,33,33,33	0
56	MG	BA	3152	1/1	0.93	0.09	48,48,48,48	0
56	MG	CA	3015	1/1	0.93	0.22	57,57,57,57	0
56	MG	BA	3695	1/1	0.93	0.16	56,56,56,56	0
56	MG	DA	3552	1/1	0.93	0.10	55,55,55,55	0
56	MG	CA	3019	1/1	0.93	0.07	44,44,44,44	0
56	MG	DA	3556	1/1	0.93	0.11	57,57,57,57	0
56	MG	BA	3029	1/1	0.93	0.14	48,48,48,48	0
56	MG	DA	3286	1/1	0.93	0.08	29,29,29,29	0
56	MG	BA	3847	1/1	0.93	0.13	52,52,52,52	0
56	MG	AA	3169	1/1	0.93	0.09	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	BA	3572	1/1	0.93	0.14	48,48,48,48	0
56	MG	CA	3191	1/1	0.93	0.11	71,71,71,71	0
56	MG	DA	3570	1/1	0.93	0.06	28,28,28,28	0
56	MG	CA	3027	1/1	0.93	0.12	49,49,49,49	0
56	MG	DA	3573	1/1	0.93	0.10	46,46,46,46	0
56	MG	DA	3296	1/1	0.93	0.12	56,56,56,56	0
56	MG	BA	3854	1/1	0.93	0.09	51,51,51,51	0
56	MG	DA	3577	1/1	0.93	0.08	54,54,54,54	0
56	MG	BA	3168	1/1	0.93	0.13	35,35,35,35	0
56	MG	DA	3580	1/1	0.93	0.10	40,40,40,40	0
56	MG	DA	3581	1/1	0.93	0.08	55,55,55,55	0
56	MG	BA	3859	1/1	0.93	0.06	34,34,34,34	0
56	MG	BA	3576	1/1	0.93	0.19	39,39,39,39	0
56	MG	CA	3034	1/1	0.93	0.12	52,52,52,52	0
56	MG	BA	3862	1/1	0.93	0.12	29,29,29,29	0
56	MG	BA	3864	1/1	0.93	0.10	26,26,26,26	0
56	MG	CA	3038	1/1	0.93	0.08	51,51,51,51	0
56	MG	BA	3037	1/1	0.93	0.07	35,35,35,35	0
56	MG	CA	3044	1/1	0.93	0.19	52,52,52,52	0
56	MG	CA	3045	1/1	0.93	0.09	47,47,47,47	0
56	MG	CA	3048	1/1	0.93	0.21	53,53,53,53	0
56	MG	DA	3319	1/1	0.93	0.08	43,43,43,43	0
56	MG	DA	3598	1/1	0.93	0.13	63,63,63,63	0
56	MG	CQ	3002	1/1	0.93	0.12	65,65,65,65	0
56	MG	BA	3706	1/1	0.93	0.11	54,54,54,54	0
56	MG	BA	3868	1/1	0.93	0.07	8,8,8,8	0
56	MG	DA	3323	1/1	0.93	0.07	34,34,34,34	0
56	MG	AA	3195	1/1	0.93	0.09	38,38,38,38	0
56	MG	AA	3196	1/1	0.93	0.09	42,42,42,42	0
56	MG	AA	3152	1/1	0.93	0.15	54,54,54,54	0
56	MG	BA	3362	1/1	0.93	0.08	37,37,37,37	0
56	MG	BA	3363	1/1	0.93	0.10	45,45,45,45	0
56	MG	CA	3061	1/1	0.93	0.17	58,58,58,58	0
56	MG	BA	3471	1/1	0.93	0.13	57,57,57,57	0
56	MG	BA	3365	1/1	0.93	0.11	44,44,44,44	0
56	MG	AA	3172	1/1	0.93	0.08	43,43,43,43	0
56	MG	DA	3338	1/1	0.93	0.08	43,43,43,43	0
56	MG	DA	3623	1/1	0.93	0.10	54,54,54,54	0
56	MG	CA	3068	1/1	0.93	0.31	53,53,53,53	0
56	MG	BA	3890	1/1	0.93	0.13	34,34,34,34	0
56	MG	BA	3368	1/1	0.93	0.09	37,37,37,37	0
56	MG	BA	3896	1/1	0.93	0.07	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3035	1/1	0.93	0.07	36,36,36,36	0
56	MG	BA	3723	1/1	0.93	0.13	27,27,27,27	0
56	MG	AA	3065	1/1	0.93	0.18	45,45,45,45	0
56	MG	BA	3902	1/1	0.93	0.30	55,55,55,55	0
56	MG	BA	3207	1/1	0.93	0.21	52,52,52,52	0
56	MG	BA	3606	1/1	0.93	0.13	29,29,29,29	0
56	MG	DA	3637	1/1	0.93	0.09	48,48,48,48	0
56	MG	AA	3080	1/1	0.93	0.25	61,61,61,61	0
56	MG	DA	3058	1/1	0.93	0.19	56,56,56,56	0
56	MG	CA	3086	1/1	0.93	0.11	62,62,62,62	0
56	MG	DA	3061	1/1	0.93	0.10	43,43,43,43	0
56	MG	CA	3087	1/1	0.93	0.22	60,60,60,60	0
56	MG	BA	3482	1/1	0.93	0.09	39,39,39,39	0
56	MG	AA	3176	1/1	0.93	0.15	47,47,47,47	0
56	MG	BA	3613	1/1	0.93	0.13	54,54,54,54	0
56	MG	BB	3015	1/1	0.93	0.13	51,51,51,51	0
56	MG	AW	101	1/1	0.93	0.10	58,58,58,58	0
56	MG	DA	3657	1/1	0.93	0.11	44,44,44,44	0
56	MG	AA	3204	1/1	0.93	0.14	53,53,53,53	0
56	MG	DA	3661	1/1	0.93	0.07	39,39,39,39	0
56	MG	DA	3078	1/1	0.93	0.07	39,39,39,39	0
56	MG	AA	3205	1/1	0.93	0.20	56,56,56,56	0
56	MG	DA	3085	1/1	0.93	0.08	39,39,39,39	0
56	MG	DA	3671	1/1	0.93	0.13	36,36,36,36	0
56	MG	BA	3226	1/1	0.93	0.12	52,52,52,52	0
56	MG	DA	3088	1/1	0.93	0.09	47,47,47,47	0
56	MG	DA	3092	1/1	0.93	0.08	50,50,50,50	0
56	MG	BA	3746	1/1	0.93	0.20	57,57,57,57	0
56	MG	BA	3396	1/1	0.93	0.10	42,42,42,42	0
56	MG	DA	3392	1/1	0.93	0.10	39,39,39,39	0
56	MG	AA	3206	1/1	0.93	0.11	53,53,53,53	0
56	MG	AA	3103	1/1	0.93	0.14	50,50,50,50	0
56	MG	DB	3010	1/1	0.93	0.16	45,45,45,45	0
56	MG	DA	3109	1/1	0.93	0.16	34,34,34,34	0
56	MG	BA	3403	1/1	0.93	0.19	52,52,52,52	0
56	MG	AA	3075	1/1	0.93	0.15	44,44,44,44	0
56	MG	DA	3402	1/1	0.93	0.14	56,56,56,56	0
56	MG	BA	3502	1/1	0.93	0.15	56,56,56,56	0
56	MG	BA	3251	1/1	0.93	0.09	45,45,45,45	0
56	MG	BA	3507	1/1	0.93	0.11	33,33,33,33	0
56	MG	AX	3008	1/1	0.93	0.15	54,54,54,54	0
56	MG	DA	3127	1/1	0.93	0.09	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	CA	3110	1/1	0.93	0.08	51,51,51,51	0
56	MG	AA	3119	1/1	0.93	0.10	60,60,60,60	0
56	MG	BA	3766	1/1	0.93	0.07	48,48,48,48	0
56	MG	AA	3106	1/1	0.93	0.21	54,54,54,54	0
56	MG	DF	307	1/1	0.93	0.11	48,48,48,48	0
56	MG	DG	3001	1/1	0.93	0.09	53,53,53,53	0
56	MG	DA	3133	1/1	0.93	0.21	50,50,50,50	0
56	MG	BF	314	1/1	0.93	0.09	46,46,46,46	0
56	MG	AA	3088	1/1	0.93	0.16	46,46,46,46	0
56	MG	BA	3418	1/1	0.93	0.09	60,60,60,60	0
56	MG	BA	3779	1/1	0.93	0.12	30,30,30,30	0
56	MG	CA	3123	1/1	0.93	0.15	51,51,51,51	0
56	MG	DW	3001	1/1	0.93	0.25	44,44,44,44	0
56	MG	DW	3002	1/1	0.93	0.07	44,44,44,44	0
56	MG	CA	3124	1/1	0.93	0.10	57,57,57,57	0
56	MG	BN	3002	1/1	0.93	0.09	38,38,38,38	0
56	MG	DA	3430	1/1	0.93	0.10	35,35,35,35	0
56	MG	BA	3269	1/1	0.93	0.09	45,45,45,45	0
56	MG	AA	3185	1/1	0.93	0.26	52,52,52,52	0
56	MG	D8	102	1/1	0.93	0.20	52,52,52,52	0
56	MG	BO	3004	1/1	0.93	0.11	53,53,53,53	0
56	MG	BA	3275	1/1	0.93	0.14	62,62,62,62	0
56	MG	AA	3160	1/1	0.94	0.06	38,38,38,38	0
56	MG	DA	3396	1/1	0.94	0.07	41,41,41,41	0
56	MG	BA	3388	1/1	0.94	0.11	44,44,44,44	0
56	MG	BA	3212	1/1	0.94	0.09	49,49,49,49	0
56	MG	DA	3062	1/1	0.94	0.11	49,49,49,49	0
56	MG	BA	3848	1/1	0.94	0.13	45,45,45,45	0
56	MG	CA	3054	1/1	0.94	0.15	53,53,53,53	0
56	MG	BA	3667	1/1	0.94	0.09	43,43,43,43	0
56	MG	DA	3069	1/1	0.94	0.18	58,58,58,58	0
56	MG	DA	3070	1/1	0.94	0.09	39,39,39,39	0
56	MG	BA	3391	1/1	0.94	0.07	24,24,24,24	0
56	MG	DA	3072	1/1	0.94	0.11	45,45,45,45	0
56	MG	BA	3852	1/1	0.94	0.07	33,33,33,33	0
56	MG	DA	3413	1/1	0.94	0.14	42,42,42,42	0
56	MG	DA	3074	1/1	0.94	0.07	45,45,45,45	0
56	MG	BA	3523	1/1	0.94	0.11	49,49,49,49	0
56	MG	DA	3416	1/1	0.94	0.17	47,47,47,47	0
56	MG	BA	3214	1/1	0.94	0.09	44,44,44,44	0
56	MG	AA	3161	1/1	0.94	0.07	35,35,35,35	0
56	MG	CA	3063	1/1	0.94	0.16	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3399	1/1	0.94	0.13	57,57,57,57	0
56	MG	DA	3086	1/1	0.94	0.18	59,59,59,59	0
56	MG	DA	3422	1/1	0.94	0.09	52,52,52,52	0
56	MG	AA	3021	1/1	0.94	0.10	41,41,41,41	0
56	MG	AA	3035	1/1	0.94	0.09	41,41,41,41	0
56	MG	DA	3090	1/1	0.94	0.33	53,53,53,53	0
56	MG	BA	3677	1/1	0.94	0.08	29,29,29,29	0
56	MG	DA	3098	1/1	0.94	0.08	36,36,36,36	0
56	MG	CA	3070	1/1	0.94	0.20	59,59,59,59	0
56	MG	AA	3036	1/1	0.94	0.15	46,46,46,46	0
56	MG	BA	3243	1/1	0.94	0.09	39,39,39,39	0
56	MG	DA	3441	1/1	0.94	0.07	44,44,44,44	0
56	MG	AA	3101	1/1	0.94	0.07	45,45,45,45	0
56	MG	BA	3685	1/1	0.94	0.07	29,29,29,29	0
56	MG	BA	3412	1/1	0.94	0.07	42,42,42,42	0
56	MG	DA	3112	1/1	0.94	0.08	42,42,42,42	0
56	MG	BA	3249	1/1	0.94	0.10	41,41,41,41	0
56	MG	DA	3450	1/1	0.94	0.07	35,35,35,35	0
56	MG	DA	3452	1/1	0.94	0.12	49,49,49,49	0
56	MG	BA	3690	1/1	0.94	0.14	53,53,53,53	0
56	MG	BA	3692	1/1	0.94	0.14	47,47,47,47	0
56	MG	BA	3083	1/1	0.94	0.15	54,54,54,54	0
56	MG	BA	3883	1/1	0.94	0.20	45,45,45,45	0
56	MG	BA	3259	1/1	0.94	0.08	33,33,33,33	0
56	MG	AT	3001	1/1	0.94	0.19	54,54,54,54	0
56	MG	BA	3552	1/1	0.94	0.10	38,38,38,38	0
56	MG	BA	3094	1/1	0.94	0.12	33,33,33,33	0
56	MG	AA	3102	1/1	0.94	0.07	44,44,44,44	0
56	MG	BA	3898	1/1	0.94	0.09	44,44,44,44	0
56	MG	DA	3464	1/1	0.94	0.12	31,31,31,31	0
56	MG	DA	3469	1/1	0.94	0.07	45,45,45,45	0
56	MG	AA	3134	1/1	0.94	0.14	47,47,47,47	0
56	MG	AW	103	1/1	0.94	0.18	45,45,45,45	0
56	MG	DA	3138	1/1	0.94	0.12	55,55,55,55	0
56	MG	DA	3140	1/1	0.94	0.13	43,43,43,43	0
56	MG	DA	3476	1/1	0.94	0.09	42,42,42,42	0
56	MG	AA	3202	1/1	0.94	0.07	46,46,46,46	0
56	MG	BA	3904	1/1	0.94	0.12	46,46,46,46	0
56	MG	AA	3023	1/1	0.94	0.21	56,56,56,56	0
56	MG	BA	3708	1/1	0.94	0.08	40,40,40,40	0
56	MG	BA	3561	1/1	0.94	0.18	54,54,54,54	0
56	MG	BA	3715	1/1	0.94	0.11	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BB	3012	1/1	0.94	0.09	61,61,61,61	0
56	MG	DA	3495	1/1	0.94	0.11	48,48,48,48	0
56	MG	BA	3430	1/1	0.94	0.10	44,44,44,44	0
56	MG	CA	3104	1/1	0.94	0.06	53,53,53,53	0
56	MG	BA	3431	1/1	0.94	0.08	54,54,54,54	0
56	MG	AX	3004	1/1	0.94	0.17	53,53,53,53	0
56	MG	CA	3109	1/1	0.94	0.17	45,45,45,45	0
56	MG	BA	3286	1/1	0.94	0.11	52,52,52,52	0
56	MG	BA	3287	1/1	0.94	0.15	48,48,48,48	0
56	MG	AA	3017	1/1	0.94	0.19	48,48,48,48	0
56	MG	BA	3437	1/1	0.94	0.08	31,31,31,31	0
56	MG	DA	3171	1/1	0.94	0.10	45,45,45,45	0
56	MG	DA	3174	1/1	0.94	0.24	49,49,49,49	0
56	MG	BA	3290	1/1	0.94	0.24	54,54,54,54	0
56	MG	CA	3117	1/1	0.94	0.11	58,58,58,58	0
56	MG	BA	3725	1/1	0.94	0.08	42,42,42,42	0
56	MG	AX	3006	1/1	0.94	0.10	46,46,46,46	0
56	MG	DA	3517	1/1	0.94	0.11	48,48,48,48	0
56	MG	BB	3030	1/1	0.94	0.11	39,39,39,39	0
56	MG	AA	3061	1/1	0.94	0.16	51,51,51,51	0
56	MG	DA	3187	1/1	0.94	0.19	44,44,44,44	0
56	MG	BA	3579	1/1	0.94	0.09	42,42,42,42	0
56	MG	DA	3527	1/1	0.94	0.06	22,22,22,22	0
56	MG	BD	305	1/1	0.94	0.12	35,35,35,35	0
56	MG	BA	3296	1/1	0.94	0.12	40,40,40,40	0
56	MG	DA	3534	1/1	0.94	0.09	39,39,39,39	0
56	MG	BA	3297	1/1	0.94	0.08	45,45,45,45	0
56	MG	DA	3536	1/1	0.94	0.10	51,51,51,51	0
56	MG	BE	306	1/1	0.94	0.23	34,34,34,34	0
56	MG	DA	3201	1/1	0.94	0.10	52,52,52,52	0
56	MG	DA	3543	1/1	0.94	0.07	47,47,47,47	0
56	MG	DA	3544	1/1	0.94	0.10	44,44,44,44	0
56	MG	DA	3207	1/1	0.94	0.17	52,52,52,52	0
56	MG	BE	307	1/1	0.94	0.09	37,37,37,37	0
56	MG	AA	3048	1/1	0.94	0.21	46,46,46,46	0
56	MG	BA	3444	1/1	0.94	0.10	39,39,39,39	0
56	MG	DA	3213	1/1	0.94	0.14	44,44,44,44	0
56	MG	BE	312	1/1	0.94	0.15	56,56,56,56	0
56	MG	CA	3134	1/1	0.94	0.25	53,53,53,53	0
56	MG	DA	3554	1/1	0.94	0.12	48,48,48,48	0
56	MG	BA	3587	1/1	0.94	0.14	32,32,32,32	0
56	MG	BA	3588	1/1	0.94	0.07	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	DA	3558	1/1	0.94	0.14	47,47,47,47	0
56	MG	AA	3011	1/1	0.94	0.16	46,46,46,46	0
56	MG	DA	3219	1/1	0.94	0.21	55,55,55,55	0
56	MG	BA	3302	1/1	0.94	0.07	43,43,43,43	0
56	MG	DA	3563	1/1	0.94	0.14	60,60,60,60	0
56	MG	BG	201	1/1	0.94	0.07	58,58,58,58	0
56	MG	CA	3141	1/1	0.94	0.15	65,65,65,65	0
56	MG	BG	203	1/1	0.94	0.12	51,51,51,51	0
56	MG	BA	3745	1/1	0.94	0.10	45,45,45,45	0
56	MG	BA	3305	1/1	0.94	0.11	46,46,46,46	0
56	MG	BG	206	1/1	0.94	0.07	59,59,59,59	0
56	MG	DA	3231	1/1	0.94	0.24	49,49,49,49	0
56	MG	BH	3001	1/1	0.94	0.16	40,40,40,40	0
56	MG	DA	3238	1/1	0.94	0.13	48,48,48,48	0
56	MG	DA	3240	1/1	0.94	0.09	45,45,45,45	0
56	MG	BA	3308	1/1	0.94	0.09	40,40,40,40	0
56	MG	BA	3595	1/1	0.94	0.10	36,36,36,36	0
56	MG	AA	3209	1/1	0.94	0.12	61,61,61,61	0
56	MG	AX	3014	1/1	0.94	0.08	51,51,51,51	0
56	MG	BA	3602	1/1	0.94	0.06	20,20,20,20	0
56	MG	DA	3587	1/1	0.94	0.12	64,64,64,64	0
56	MG	DA	3248	1/1	0.94	0.13	50,50,50,50	0
56	MG	AA	3086	1/1	0.94	0.07	45,45,45,45	0
56	MG	BA	3604	1/1	0.94	0.12	52,52,52,52	0
56	MG	DA	3592	1/1	0.94	0.13	54,54,54,54	0
56	MG	BA	3460	1/1	0.94	0.04	20,20,20,20	0
56	MG	BA	3607	1/1	0.94	0.07	57,57,57,57	0
56	MG	DA	3254	1/1	0.94	0.08	37,37,37,37	0
56	MG	DA	3261	1/1	0.94	0.11	47,47,47,47	0
56	MG	DA	3262	1/1	0.94	0.08	36,36,36,36	0
56	MG	AA	3087	1/1	0.94	0.07	38,38,38,38	0
56	MG	AA	3178	1/1	0.94	0.09	49,49,49,49	0
56	MG	BU	202	1/1	0.94	0.13	31,31,31,31	0
56	MG	DA	3603	1/1	0.94	0.08	52,52,52,52	0
56	MG	CA	3163	1/1	0.94	0.17	47,47,47,47	0
56	MG	DA	3270	1/1	0.94	0.09	33,33,33,33	0
56	MG	BA	3768	1/1	0.94	0.10	29,29,29,29	0
56	MG	DA	3274	1/1	0.94	0.06	47,47,47,47	0
56	MG	DA	3609	1/1	0.94	0.09	53,53,53,53	0
56	MG	BX	3003	1/1	0.94	0.12	36,36,36,36	0
56	MG	CA	3168	1/1	0.94	0.16	65,65,65,65	0
56	MG	BA	3332	1/1	0.94	0.11	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	CA	3170	1/1	0.94	0.17	61,61,61,61	0
56	MG	DA	3614	1/1	0.94	0.08	47,47,47,47	0
56	MG	BA	3333	1/1	0.94	0.28	55,55,55,55	0
56	MG	DA	3281	1/1	0.94	0.14	42,42,42,42	0
56	MG	DA	3620	1/1	0.94	0.09	49,49,49,49	0
56	MG	BA	3774	1/1	0.94	0.15	47,47,47,47	0
56	MG	BA	3142	1/1	0.94	0.21	46,46,46,46	0
56	MG	BA	3002	1/1	0.94	0.09	53,53,53,53	0
56	MG	BA	3781	1/1	0.94	0.18	47,47,47,47	0
56	MG	BA	3005	1/1	0.94	0.10	49,49,49,49	0
56	MG	BA	3156	1/1	0.94	0.12	46,46,46,46	0
56	MG	DA	3629	1/1	0.94	0.07	36,36,36,36	0
56	MG	BA	3157	1/1	0.94	0.18	41,41,41,41	0
56	MG	BA	3785	1/1	0.94	0.08	39,39,39,39	0
56	MG	AA	3217	1/1	0.94	0.09	48,48,48,48	0
56	MG	AA	3009	1/1	0.94	0.10	49,49,49,49	0
56	MG	BA	3791	1/1	0.94	0.09	47,47,47,47	0
56	MG	BA	3163	1/1	0.94	0.09	46,46,46,46	0
56	MG	BA	3166	1/1	0.94	0.17	31,31,31,31	0
56	MG	BA	3796	1/1	0.94	0.08	29,29,29,29	0
56	MG	DA	3638	1/1	0.94	0.09	50,50,50,50	0
56	MG	BA	3797	1/1	0.94	0.13	52,52,52,52	0
56	MG	B9	502	1/1	0.94	0.20	47,47,47,47	0
56	MG	AA	3052	1/1	0.94	0.30	58,58,58,58	0
56	MG	AA	3004	1/1	0.94	0.20	68,68,68,68	0
56	MG	DA	3643	1/1	0.94	0.12	51,51,51,51	0
56	MG	AA	3092	1/1	0.94	0.16	52,52,52,52	0
56	MG	DA	3647	1/1	0.94	0.12	39,39,39,39	0
56	MG	BA	3184	1/1	0.94	0.13	41,41,41,41	0
56	MG	CA	3005	1/1	0.94	0.09	55,55,55,55	0
56	MG	BA	3188	1/1	0.94	0.20	55,55,55,55	0
56	MG	DA	3651	1/1	0.94	0.12	50,50,50,50	0
56	MG	AA	3093	1/1	0.94	0.18	53,53,53,53	0
56	MG	BA	3490	1/1	0.94	0.12	31,31,31,31	0
56	MG	BA	3491	1/1	0.94	0.12	44,44,44,44	0
56	MG	DA	3658	1/1	0.94	0.17	60,60,60,60	0
56	MG	CD	503	1/1	0.94	0.28	53,53,53,53	0
56	MG	CE	3001	1/1	0.94	0.13	67,67,67,67	0
56	MG	BA	3636	1/1	0.94	0.07	28,28,28,28	0
56	MG	CA	3012	1/1	0.94	0.08	57,57,57,57	0
56	MG	DA	3665	1/1	0.94	0.07	34,34,34,34	0
56	MG	DA	3667	1/1	0.94	0.14	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	CA	3013	1/1	0.94	0.27	62,62,62,62	0
56	MG	AA	3224	1/1	0.94	0.23	51,51,51,51	0
56	MG	BA	3369	1/1	0.94	0.11	12,12,12,12	0
56	MG	CA	3016	1/1	0.94	0.09	45,45,45,45	0
56	MG	AA	3094	1/1	0.94	0.21	49,49,49,49	0
56	MG	DA	3337	1/1	0.94	0.07	44,44,44,44	0
56	MG	BA	3498	1/1	0.94	0.09	26,26,26,26	0
56	MG	AA	3095	1/1	0.94	0.30	58,58,58,58	0
56	MG	CV	101	1/1	0.94	0.18	51,51,51,51	0
56	MG	BA	3647	1/1	0.94	0.10	47,47,47,47	0
56	MG	DB	3009	1/1	0.94	0.22	59,59,59,59	0
56	MG	BA	3648	1/1	0.94	0.16	56,56,56,56	0
56	MG	CW	3003	1/1	0.94	0.08	58,58,58,58	0
56	MG	DB	3013	1/1	0.94	0.07	53,53,53,53	0
56	MG	BA	3375	1/1	0.94	0.06	30,30,30,30	0
56	MG	AA	3123	1/1	0.94	0.15	46,46,46,46	0
56	MG	BA	3828	1/1	0.94	0.12	46,46,46,46	0
56	MG	BA	3503	1/1	0.94	0.09	44,44,44,44	0
56	MG	BA	3831	1/1	0.94	0.09	53,53,53,53	0
56	MG	DB	3020	1/1	0.94	0.10	52,52,52,52	0
56	MG	DA	3356	1/1	0.94	0.11	44,44,44,44	0
56	MG	DD	306	1/1	0.94	0.15	46,46,46,46	0
56	MG	CX	3007	1/1	0.94	0.16	57,57,57,57	0
56	MG	DA	3001	1/1	0.94	0.07	55,55,55,55	0
56	MG	CA	3032	1/1	0.94	0.19	56,56,56,56	0
56	MG	DE	306	1/1	0.94	0.08	43,43,43,43	0
56	MG	BA	3833	1/1	0.94	0.18	57,57,57,57	0
56	MG	BA	3836	1/1	0.94	0.17	59,59,59,59	0
56	MG	BA	3837	1/1	0.94	0.09	52,52,52,52	0
56	MG	AA	3190	1/1	0.94	0.12	54,54,54,54	0
56	MG	DA	3020	1/1	0.94	0.09	48,48,48,48	0
56	MG	DA	3023	1/1	0.94	0.08	48,48,48,48	0
56	MG	DA	3026	1/1	0.94	0.13	41,41,41,41	0
56	MG	DA	3031	1/1	0.94	0.09	44,44,44,44	0
56	MG	DU	3001	1/1	0.94	0.16	43,43,43,43	0
56	MG	DA	3033	1/1	0.94	0.07	40,40,40,40	0
56	MG	AA	3234	1/1	0.94	0.09	40,40,40,40	0
56	MG	DA	3382	1/1	0.94	0.10	40,40,40,40	0
56	MG	DV	202	1/1	0.94	0.13	49,49,49,49	0
56	MG	AB	3001	1/1	0.94	0.07	73,73,73,73	0
56	MG	DA	3384	1/1	0.94	0.10	55,55,55,55	0
56	MG	CA	3040	1/1	0.94	0.12	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DX	3001	1/1	0.94	0.15	44,44,44,44	0
56	MG	CA	3041	1/1	0.94	0.17	49,49,49,49	0
56	MG	CA	3043	1/1	0.94	0.29	57,57,57,57	0
56	MG	DA	3389	1/1	0.94	0.10	54,54,54,54	0
56	MG	BA	3660	1/1	0.94	0.21	46,46,46,46	0
56	MG	D5	102	1/1	0.94	0.20	38,38,38,38	0
56	MG	BA	3510	1/1	0.94	0.12	49,49,49,49	0
56	MG	DA	3052	1/1	0.94	0.06	38,38,38,38	0
56	MG	CA	3046	1/1	0.94	0.09	42,42,42,42	0
56	MG	DA	3411	1/1	0.95	0.06	44,44,44,44	0
56	MG	DA	3412	1/1	0.95	0.14	50,50,50,50	0
56	MG	AA	3211	1/1	0.95	0.12	56,56,56,56	0
56	MG	CA	3080	1/1	0.95	0.27	55,55,55,55	0
56	MG	BA	3115	1/1	0.95	0.09	44,44,44,44	0
56	MG	CA	3082	1/1	0.95	0.12	58,58,58,58	0
56	MG	CA	3083	1/1	0.95	0.28	52,52,52,52	0
56	MG	BA	3542	1/1	0.95	0.09	43,43,43,43	0
56	MG	DA	3095	1/1	0.95	0.13	46,46,46,46	0
56	MG	DA	3097	1/1	0.95	0.19	44,44,44,44	0
56	MG	AA	3212	1/1	0.95	0.12	59,59,59,59	0
56	MG	BA	3402	1/1	0.95	0.06	39,39,39,39	0
56	MG	DA	3423	1/1	0.95	0.11	56,56,56,56	0
56	MG	BA	3258	1/1	0.95	0.12	38,38,38,38	0
56	MG	DA	3425	1/1	0.95	0.10	53,53,53,53	0
56	MG	BA	3900	1/1	0.95	0.35	40,40,40,40	0
56	MG	BA	3117	1/1	0.95	0.05	29,29,29,29	0
56	MG	DA	3429	1/1	0.95	0.08	35,35,35,35	0
56	MG	BA	3119	1/1	0.95	0.18	40,40,40,40	0
56	MG	BA	3407	1/1	0.95	0.05	13,13,13,13	0
56	MG	DA	3111	1/1	0.95	0.09	40,40,40,40	0
56	MG	DA	3435	1/1	0.95	0.09	39,39,39,39	0
56	MG	BA	3408	1/1	0.95	0.10	41,41,41,41	0
56	MG	DA	3114	1/1	0.95	0.17	55,55,55,55	0
56	MG	BA	3124	1/1	0.95	0.20	26,26,26,26	0
56	MG	BA	3709	1/1	0.95	0.07	34,34,34,34	0
56	MG	DA	3443	1/1	0.95	0.07	50,50,50,50	0
56	MG	DA	3444	1/1	0.95	0.08	40,40,40,40	0
56	MG	BA	3710	1/1	0.95	0.16	49,49,49,49	0
56	MG	BB	3005	1/1	0.95	0.07	52,52,52,52	0
56	MG	BA	3711	1/1	0.95	0.11	53,53,53,53	0
56	MG	BA	3411	1/1	0.95	0.15	44,44,44,44	0
56	MG	BA	3264	1/1	0.95	0.10	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3451	1/1	0.95	0.06	34,34,34,34	0
56	MG	BB	3014	1/1	0.95	0.10	43,43,43,43	0
56	MG	BA	3126	1/1	0.95	0.06	38,38,38,38	0
56	MG	BA	3128	1/1	0.95	0.20	35,35,35,35	0
56	MG	DA	3455	1/1	0.95	0.07	35,35,35,35	0
56	MG	BB	3019	1/1	0.95	0.10	49,49,49,49	0
56	MG	AA	3028	1/1	0.95	0.23	50,50,50,50	0
56	MG	DA	3135	1/1	0.95	0.13	47,47,47,47	0
56	MG	CA	3105	1/1	0.95	0.14	53,53,53,53	0
56	MG	BA	3562	1/1	0.95	0.12	41,41,41,41	0
56	MG	CA	3107	1/1	0.95	0.12	54,54,54,54	0
56	MG	DA	3141	1/1	0.95	0.06	42,42,42,42	0
56	MG	BB	3022	1/1	0.95	0.12	46,46,46,46	0
56	MG	BA	3563	1/1	0.95	0.06	43,43,43,43	0
56	MG	DA	3467	1/1	0.95	0.09	40,40,40,40	0
56	MG	DA	3468	1/1	0.95	0.09	49,49,49,49	0
56	MG	BA	3564	1/1	0.95	0.07	39,39,39,39	0
56	MG	DA	3146	1/1	0.95	0.05	40,40,40,40	0
56	MG	CA	3111	1/1	0.95	0.15	53,53,53,53	0
56	MG	AA	3024	1/1	0.95	0.07	39,39,39,39	0
56	MG	BA	3419	1/1	0.95	0.06	38,38,38,38	0
56	MG	BA	3724	1/1	0.95	0.07	37,37,37,37	0
56	MG	BA	3131	1/1	0.95	0.07	37,37,37,37	0
56	MG	DA	3478	1/1	0.95	0.10	50,50,50,50	0
56	MG	BA	3278	1/1	0.95	0.07	42,42,42,42	0
56	MG	DA	3483	1/1	0.95	0.07	45,45,45,45	0
56	MG	AA	3148	1/1	0.95	0.10	43,43,43,43	0
56	MG	BA	3032	1/1	0.95	0.11	29,29,29,29	0
56	MG	DA	3158	1/1	0.95	0.07	49,49,49,49	0
56	MG	CA	3121	1/1	0.95	0.21	52,52,52,52	0
56	MG	BA	3139	1/1	0.95	0.19	45,45,45,45	0
56	MG	DA	3492	1/1	0.95	0.16	51,51,51,51	0
56	MG	BA	3574	1/1	0.95	0.20	42,42,42,42	0
56	MG	DA	3498	1/1	0.95	0.07	42,42,42,42	0
56	MG	BA	3033	1/1	0.95	0.08	37,37,37,37	0
56	MG	AA	3053	1/1	0.95	0.07	42,42,42,42	0
56	MG	DA	3170	1/1	0.95	0.13	36,36,36,36	0
56	MG	BA	3737	1/1	0.95	0.16	29,29,29,29	0
56	MG	BA	3577	1/1	0.95	0.11	40,40,40,40	0
56	MG	DA	3175	1/1	0.95	0.12	50,50,50,50	0
56	MG	BA	3291	1/1	0.95	0.22	49,49,49,49	0
56	MG	DA	3177	1/1	0.95	0.17	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3292	1/1	0.95	0.14	42,42,42,42	0
56	MG	BF	302	1/1	0.95	0.08	37,37,37,37	0
56	MG	BF	311	1/1	0.95	0.07	40,40,40,40	0
56	MG	BA	3145	1/1	0.95	0.09	41,41,41,41	0
56	MG	CA	3133	1/1	0.95	0.14	53,53,53,53	0
56	MG	BA	3147	1/1	0.95	0.13	39,39,39,39	0
56	MG	BA	3038	1/1	0.95	0.09	42,42,42,42	0
56	MG	AA	3193	1/1	0.95	0.18	51,51,51,51	0
56	MG	DA	3518	1/1	0.95	0.06	34,34,34,34	0
56	MG	DA	3192	1/1	0.95	0.17	38,38,38,38	0
56	MG	BA	3298	1/1	0.95	0.14	51,51,51,51	0
56	MG	DA	3523	1/1	0.95	0.06	46,46,46,46	0
56	MG	DA	3197	1/1	0.95	0.08	32,32,32,32	0
56	MG	BA	3299	1/1	0.95	0.14	51,51,51,51	0
56	MG	BA	3154	1/1	0.95	0.20	31,31,31,31	0
56	MG	DA	3528	1/1	0.95	0.07	67,67,67,67	0
56	MG	CA	3140	1/1	0.95	0.09	56,56,56,56	0
56	MG	DA	3203	1/1	0.95	0.10	46,46,46,46	0
56	MG	DA	3205	1/1	0.95	0.08	37,37,37,37	0
56	MG	BA	3043	1/1	0.95	0.12	43,43,43,43	0
56	MG	BA	3755	1/1	0.95	0.07	45,45,45,45	0
56	MG	DA	3537	1/1	0.95	0.09	38,38,38,38	0
56	MG	BA	3591	1/1	0.95	0.12	31,31,31,31	0
56	MG	BA	3758	1/1	0.95	0.11	48,48,48,48	0
56	MG	AA	3091	1/1	0.95	0.09	50,50,50,50	0
56	MG	CA	3146	1/1	0.95	0.18	43,43,43,43	0
56	MG	AA	3151	1/1	0.95	0.07	48,48,48,48	0
56	MG	BA	3306	1/1	0.95	0.07	28,28,28,28	0
56	MG	BA	3160	1/1	0.95	0.07	44,44,44,44	0
56	MG	BA	3310	1/1	0.95	0.19	44,44,44,44	0
56	MG	BQ	3001	1/1	0.95	0.30	41,41,41,41	0
56	MG	CA	3152	1/1	0.95	0.13	67,67,67,67	0
56	MG	BA	3767	1/1	0.95	0.14	34,34,34,34	0
56	MG	BA	3601	1/1	0.95	0.08	33,33,33,33	0
56	MG	CA	3156	1/1	0.95	0.15	59,59,59,59	0
56	MG	DA	3225	1/1	0.95	0.13	38,38,38,38	0
56	MG	BR	201	1/1	0.95	0.11	35,35,35,35	0
56	MG	BA	3311	1/1	0.95	0.12	43,43,43,43	0
56	MG	BA	3312	1/1	0.95	0.23	54,54,54,54	0
56	MG	DA	3230	1/1	0.95	0.24	54,54,54,54	0
56	MG	BA	3773	1/1	0.95	0.11	29,29,29,29	0
56	MG	DA	3234	1/1	0.95	0.17	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BU	203	1/1	0.95	0.15	44,44,44,44	0
56	MG	BV	204	1/1	0.95	0.12	44,44,44,44	0
56	MG	AA	3006	1/1	0.95	0.08	50,50,50,50	0
56	MG	CA	3164	1/1	0.95	0.08	63,63,63,63	0
56	MG	CA	3165	1/1	0.95	0.05	36,36,36,36	0
56	MG	BW	203	1/1	0.95	0.15	47,47,47,47	0
56	MG	DA	3245	1/1	0.95	0.10	48,48,48,48	0
56	MG	BA	3776	1/1	0.95	0.13	27,27,27,27	0
56	MG	DA	3578	1/1	0.95	0.08	46,46,46,46	0
56	MG	BA	3777	1/1	0.95	0.11	52,52,52,52	0
56	MG	BA	3451	1/1	0.95	0.09	38,38,38,38	0
56	MG	BA	3454	1/1	0.95	0.12	39,39,39,39	0
56	MG	DA	3250	1/1	0.95	0.13	50,50,50,50	0
56	MG	AA	3064	1/1	0.95	0.31	54,54,54,54	0
56	MG	BA	3456	1/1	0.95	0.11	41,41,41,41	0
56	MG	BA	3317	1/1	0.95	0.10	47,47,47,47	0
56	MG	BA	3165	1/1	0.95	0.07	32,32,32,32	0
56	MG	DA	3258	1/1	0.95	0.15	39,39,39,39	0
56	MG	BA	3461	1/1	0.95	0.13	23,23,23,23	0
56	MG	BA	3462	1/1	0.95	0.07	30,30,30,30	0
56	MG	BA	3320	1/1	0.95	0.15	50,50,50,50	0
56	MG	DA	3264	1/1	0.95	0.07	48,48,48,48	0
56	MG	BA	3618	1/1	0.95	0.06	19,19,19,19	0
56	MG	AA	3225	1/1	0.95	0.23	48,48,48,48	0
56	MG	BA	3794	1/1	0.95	0.06	48,48,48,48	0
56	MG	BA	3326	1/1	0.95	0.11	38,38,38,38	0
56	MG	B5	102	1/1	0.95	0.21	36,36,36,36	0
56	MG	DA	3601	1/1	0.95	0.08	38,38,38,38	0
56	MG	AX	3009	1/1	0.95	0.10	32,32,32,32	0
56	MG	BA	3331	1/1	0.95	0.08	32,32,32,32	0
56	MG	B6	103	1/1	0.95	0.06	44,44,44,44	0
56	MG	B7	103	1/1	0.95	0.06	44,44,44,44	0
56	MG	BA	3070	1/1	0.95	0.13	47,47,47,47	0
56	MG	CA	3189	1/1	0.95	0.12	57,57,57,57	0
56	MG	B8	103	1/1	0.95	0.07	31,31,31,31	0
56	MG	DA	3282	1/1	0.95	0.07	32,32,32,32	0
56	MG	BA	3624	1/1	0.95	0.07	40,40,40,40	0
56	MG	BA	3179	1/1	0.95	0.08	37,37,37,37	0
56	MG	DA	3288	1/1	0.95	0.09	44,44,44,44	0
56	MG	BA	3342	1/1	0.95	0.13	41,41,41,41	0
56	MG	DA	3616	1/1	0.95	0.12	54,54,54,54	0
56	MG	DA	3617	1/1	0.95	0.09	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3181	1/1	0.95	0.11	38,38,38,38	0
56	MG	AX	3010	1/1	0.95	0.07	53,53,53,53	0
56	MG	BA	3807	1/1	0.95	0.20	46,46,46,46	0
56	MG	BA	3074	1/1	0.95	0.16	33,33,33,33	0
56	MG	BA	3079	1/1	0.95	0.20	40,40,40,40	0
56	MG	CD	502	1/1	0.95	0.07	51,51,51,51	0
56	MG	DA	3624	1/1	0.95	0.06	32,32,32,32	0
56	MG	BA	3189	1/1	0.95	0.09	30,30,30,30	0
56	MG	DA	3299	1/1	0.95	0.05	37,37,37,37	0
56	MG	DA	3627	1/1	0.95	0.07	42,42,42,42	0
56	MG	BA	3481	1/1	0.95	0.06	31,31,31,31	0
56	MG	BA	3814	1/1	0.95	0.07	43,43,43,43	0
56	MG	BA	3634	1/1	0.95	0.14	23,23,23,23	0
56	MG	DA	3305	1/1	0.95	0.05	42,42,42,42	0
56	MG	AX	3011	1/1	0.95	0.12	53,53,53,53	0
56	MG	BA	3353	1/1	0.95	0.17	49,49,49,49	0
56	MG	CK	3001	1/1	0.95	0.07	46,46,46,46	0
56	MG	DA	3310	1/1	0.95	0.12	54,54,54,54	0
56	MG	BA	3637	1/1	0.95	0.17	32,32,32,32	0
56	MG	DA	3313	1/1	0.95	0.09	42,42,42,42	0
56	MG	BA	3193	1/1	0.95	0.08	50,50,50,50	0
56	MG	DA	3315	1/1	0.95	0.11	27,27,27,27	0
56	MG	AA	3046	1/1	0.95	0.09	43,43,43,43	0
56	MG	BA	3200	1/1	0.95	0.11	35,35,35,35	0
56	MG	BA	3358	1/1	0.95	0.12	28,28,28,28	0
56	MG	BA	3827	1/1	0.95	0.06	41,41,41,41	0
56	MG	AA	3081	1/1	0.95	0.08	48,48,48,48	0
56	MG	DA	3645	1/1	0.95	0.10	49,49,49,49	0
56	MG	BA	3829	1/1	0.95	0.09	51,51,51,51	0
56	MG	BA	3204	1/1	0.95	0.07	34,34,34,34	0
56	MG	BA	3205	1/1	0.95	0.10	50,50,50,50	0
56	MG	BA	3650	1/1	0.95	0.17	33,33,33,33	0
56	MG	CX	3003	1/1	0.95	0.22	59,59,59,59	0
56	MG	DA	3652	1/1	0.95	0.10	53,53,53,53	0
56	MG	BA	3651	1/1	0.95	0.07	52,52,52,52	0
56	MG	DA	3654	1/1	0.95	0.08	53,53,53,53	0
56	MG	AA	3034	1/1	0.95	0.12	52,52,52,52	0
56	MG	DA	3656	1/1	0.95	0.12	56,56,56,56	0
56	MG	BA	3494	1/1	0.95	0.09	32,32,32,32	0
56	MG	DA	3330	1/1	0.95	0.09	47,47,47,47	0
56	MG	AA	3097	1/1	0.95	0.13	54,54,54,54	0
56	MG	DA	3660	1/1	0.95	0.06	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3096	1/1	0.95	0.15	42,42,42,42	0
56	MG	AA	3180	1/1	0.95	0.10	57,57,57,57	0
56	MG	DA	3336	1/1	0.95	0.09	27,27,27,27	0
56	MG	CA	3037	1/1	0.95	0.14	50,50,50,50	0
56	MG	BA	3098	1/1	0.95	0.14	43,43,43,43	0
56	MG	DA	3012	1/1	0.95	0.10	42,42,42,42	0
56	MG	AA	3085	1/1	0.95	0.10	47,47,47,47	0
56	MG	DA	3017	1/1	0.95	0.14	42,42,42,42	0
56	MG	AA	3003	1/1	0.95	0.17	62,62,62,62	0
56	MG	AA	3183	1/1	0.95	0.10	59,59,59,59	0
56	MG	DA	3021	1/1	0.95	0.10	29,29,29,29	0
56	MG	DA	3022	1/1	0.95	0.14	34,34,34,34	0
56	MG	BA	3376	1/1	0.95	0.11	32,32,32,32	0
56	MG	DA	3024	1/1	0.95	0.08	46,46,46,46	0
56	MG	BA	3105	1/1	0.95	0.14	44,44,44,44	0
56	MG	BA	3850	1/1	0.95	0.10	47,47,47,47	0
56	MG	BA	3379	1/1	0.95	0.10	52,52,52,52	0
56	MG	DA	3359	1/1	0.95	0.18	47,47,47,47	0
56	MG	DB	3012	1/1	0.95	0.07	50,50,50,50	0
56	MG	CA	3047	1/1	0.95	0.27	53,53,53,53	0
56	MG	BA	3380	1/1	0.95	0.08	45,45,45,45	0
56	MG	DA	3038	1/1	0.95	0.06	34,34,34,34	0
56	MG	BA	3513	1/1	0.95	0.17	51,51,51,51	0
56	MG	BA	3219	1/1	0.95	0.10	28,28,28,28	0
56	MG	CA	3052	1/1	0.95	0.27	53,53,53,53	0
56	MG	DA	3046	1/1	0.95	0.12	40,40,40,40	0
56	MG	BA	3858	1/1	0.95	0.09	61,61,61,61	0
56	MG	DD	303	1/1	0.95	0.20	46,46,46,46	0
56	MG	DA	3049	1/1	0.95	0.10	43,43,43,43	0
56	MG	DA	3374	1/1	0.95	0.05	36,36,36,36	0
56	MG	DA	3378	1/1	0.95	0.11	43,43,43,43	0
56	MG	DE	304	1/1	0.95	0.08	43,43,43,43	0
56	MG	BA	3221	1/1	0.95	0.19	49,49,49,49	0
56	MG	CA	3055	1/1	0.95	0.16	57,57,57,57	0
56	MG	DF	301	1/1	0.95	0.13	36,36,36,36	0
56	MG	BA	3520	1/1	0.95	0.08	42,42,42,42	0
56	MG	DF	303	1/1	0.95	0.08	42,42,42,42	0
56	MG	DA	3054	1/1	0.95	0.24	52,52,52,52	0
56	MG	DA	3056	1/1	0.95	0.11	41,41,41,41	0
56	MG	AA	3118	1/1	0.95	0.10	45,45,45,45	0
56	MG	DA	3059	1/1	0.95	0.06	39,39,39,39	0
56	MG	BA	3863	1/1	0.95	0.15	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3228	1/1	0.95	0.09	35,35,35,35	0
56	MG	CA	3060	1/1	0.95	0.24	55,55,55,55	0
56	MG	DA	3065	1/1	0.95	0.08	50,50,50,50	0
56	MG	DU	3002	1/1	0.95	0.19	52,52,52,52	0
56	MG	BA	3676	1/1	0.95	0.08	50,50,50,50	0
56	MG	AF	3001	1/1	0.95	0.12	31,31,31,31	0
56	MG	BA	3526	1/1	0.95	0.08	43,43,43,43	0
56	MG	BA	3870	1/1	0.95	0.07	24,24,24,24	0
56	MG	BA	3389	1/1	0.95	0.09	21,21,21,21	0
56	MG	BA	3528	1/1	0.95	0.09	58,58,58,58	0
56	MG	BA	3238	1/1	0.95	0.07	42,42,42,42	0
56	MG	AA	3016	1/1	0.95	0.18	57,57,57,57	0
56	MG	DY	502	1/1	0.95	0.10	44,44,44,44	0
56	MG	AA	3142	1/1	0.95	0.06	44,44,44,44	0
56	MG	CA	3073	1/1	0.95	0.10	64,64,64,64	0
56	MG	D1	101	1/1	0.95	0.14	44,44,44,44	0
56	MG	BA	3397	1/1	0.95	0.09	46,46,46,46	0
56	MG	DA	3077	1/1	0.95	0.07	44,44,44,44	0
56	MG	BA	3691	1/1	0.95	0.13	55,55,55,55	0
56	MG	DA	3079	1/1	0.95	0.15	49,49,49,49	0
56	MG	BA	3537	1/1	0.95	0.07	31,31,31,31	0
56	MG	DA	3082	1/1	0.95	0.09	48,48,48,48	0
59	ZN	D4	501	1/1	0.95	0.09	95,95,95,95	0
56	MG	BA	3887	1/1	0.96	0.11	35,35,35,35	0
56	MG	BA	3027	1/1	0.96	0.07	37,37,37,37	0
56	MG	AA	3229	1/1	0.96	0.17	50,50,50,50	0
56	MG	BA	3382	1/1	0.96	0.10	26,26,26,26	0
56	MG	DA	3474	1/1	0.96	0.09	35,35,35,35	0
56	MG	DA	3475	1/1	0.96	0.10	42,42,42,42	0
56	MG	BA	3279	1/1	0.96	0.16	32,32,32,32	0
56	MG	BA	3384	1/1	0.96	0.05	48,48,48,48	0
56	MG	BA	3280	1/1	0.96	0.05	23,23,23,23	0
56	MG	DA	3480	1/1	0.96	0.06	43,43,43,43	0
56	MG	BA	3740	1/1	0.96	0.11	41,41,41,41	0
56	MG	BA	3099	1/1	0.96	0.12	49,49,49,49	0
56	MG	DA	3484	1/1	0.96	0.08	39,39,39,39	0
56	MG	DA	3235	1/1	0.96	0.15	52,52,52,52	0
56	MG	DA	3236	1/1	0.96	0.06	36,36,36,36	0
56	MG	BA	3742	1/1	0.96	0.05	43,43,43,43	0
56	MG	BA	3387	1/1	0.96	0.08	60,60,60,60	0
56	MG	BA	3905	1/1	0.96	0.06	47,47,47,47	0
56	MG	AA	3070	1/1	0.96	0.23	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3493	1/1	0.96	0.07	38,38,38,38	0
56	MG	BB	3001	1/1	0.96	0.12	41,41,41,41	0
56	MG	DA	3496	1/1	0.96	0.08	53,53,53,53	0
56	MG	DA	3243	1/1	0.96	0.06	39,39,39,39	0
56	MG	DA	3499	1/1	0.96	0.10	44,44,44,44	0
56	MG	BA	3102	1/1	0.96	0.11	44,44,44,44	0
56	MG	DA	3501	1/1	0.96	0.20	33,33,33,33	0
56	MG	BA	3173	1/1	0.96	0.05	35,35,35,35	0
56	MG	BA	3497	1/1	0.96	0.16	49,49,49,49	0
56	MG	BB	3006	1/1	0.96	0.09	40,40,40,40	0
56	MG	BB	3009	1/1	0.96	0.08	52,52,52,52	0
56	MG	AA	3071	1/1	0.96	0.08	61,61,61,61	0
56	MG	BA	3749	1/1	0.96	0.06	24,24,24,24	0
56	MG	DA	3508	1/1	0.96	0.14	39,39,39,39	0
56	MG	BA	3392	1/1	0.96	0.10	48,48,48,48	0
56	MG	BA	3393	1/1	0.96	0.08	23,23,23,23	0
56	MG	DA	3006	1/1	0.96	0.09	41,41,41,41	0
56	MG	AA	3110	1/1	0.96	0.08	51,51,51,51	0
56	MG	DA	3255	1/1	0.96	0.16	23,23,23,23	0
56	MG	DA	3257	1/1	0.96	0.11	53,53,53,53	0
56	MG	AA	3031	1/1	0.96	0.09	43,43,43,43	0
56	MG	DA	3259	1/1	0.96	0.09	41,41,41,41	0
56	MG	CA	3067	1/1	0.96	0.15	55,55,55,55	0
56	MG	BB	3017	1/1	0.96	0.12	37,37,37,37	0
56	MG	BA	3504	1/1	0.96	0.06	31,31,31,31	0
56	MG	BA	3626	1/1	0.96	0.09	22,22,22,22	0
56	MG	DA	3522	1/1	0.96	0.06	35,35,35,35	0
56	MG	BA	3036	1/1	0.96	0.21	34,34,34,34	0
56	MG	DA	3266	1/1	0.96	0.10	44,44,44,44	0
56	MG	DA	3525	1/1	0.96	0.12	46,46,46,46	0
56	MG	CA	3072	1/1	0.96	0.07	55,55,55,55	0
56	MG	BA	3761	1/1	0.96	0.11	52,52,52,52	0
56	MG	BA	3506	1/1	0.96	0.08	34,34,34,34	0
56	MG	DA	3025	1/1	0.96	0.24	48,48,48,48	0
56	MG	DA	3530	1/1	0.96	0.05	30,30,30,30	0
56	MG	DA	3273	1/1	0.96	0.06	30,30,30,30	0
56	MG	AA	3138	1/1	0.96	0.20	57,57,57,57	0
56	MG	BA	3110	1/1	0.96	0.11	17,17,17,17	0
56	MG	CA	3078	1/1	0.96	0.12	48,48,48,48	0
56	MG	DA	3277	1/1	0.96	0.15	41,41,41,41	0
56	MG	DA	3538	1/1	0.96	0.17	57,57,57,57	0
56	MG	BA	3765	1/1	0.96	0.14	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3509	1/1	0.96	0.07	48,48,48,48	0
56	MG	AA	3112	1/1	0.96	0.08	40,40,40,40	0
56	MG	AA	3066	1/1	0.96	0.07	30,30,30,30	0
56	MG	AA	3032	1/1	0.96	0.09	60,60,60,60	0
56	MG	DA	3284	1/1	0.96	0.05	36,36,36,36	0
56	MG	DA	3547	1/1	0.96	0.10	52,52,52,52	0
56	MG	BA	3514	1/1	0.96	0.04	9,9,9,9	0
56	MG	DA	3045	1/1	0.96	0.14	52,52,52,52	0
56	MG	BE	301	1/1	0.96	0.06	36,36,36,36	0
56	MG	BA	3195	1/1	0.96	0.08	37,37,37,37	0
56	MG	BE	303	1/1	0.96	0.10	35,35,35,35	0
56	MG	DA	3291	1/1	0.96	0.15	52,52,52,52	0
56	MG	BA	3517	1/1	0.96	0.07	31,31,31,31	0
56	MG	DA	3051	1/1	0.96	0.12	45,45,45,45	0
56	MG	DA	3557	1/1	0.96	0.07	54,54,54,54	0
56	MG	BA	3044	1/1	0.96	0.10	32,32,32,32	0
56	MG	BA	3047	1/1	0.96	0.12	31,31,31,31	0
56	MG	BA	3521	1/1	0.96	0.06	38,38,38,38	0
56	MG	DA	3561	1/1	0.96	0.07	51,51,51,51	0
56	MG	BA	3641	1/1	0.96	0.05	22,22,22,22	0
56	MG	BE	311	1/1	0.96	0.10	37,37,37,37	0
56	MG	DA	3564	1/1	0.96	0.10	43,43,43,43	0
56	MG	BA	3048	1/1	0.96	0.11	36,36,36,36	0
56	MG	DA	3567	1/1	0.96	0.12	44,44,44,44	0
56	MG	DA	3302	1/1	0.96	0.11	57,57,57,57	0
56	MG	BA	3118	1/1	0.96	0.12	38,38,38,38	0
56	MG	BA	3524	1/1	0.96	0.07	24,24,24,24	0
56	MG	BF	306	1/1	0.96	0.07	34,34,34,34	0
56	MG	BF	307	1/1	0.96	0.05	31,31,31,31	0
56	MG	BA	3307	1/1	0.96	0.07	36,36,36,36	0
56	MG	DA	3308	1/1	0.96	0.06	45,45,45,45	0
56	MG	BA	3050	1/1	0.96	0.04	15,15,15,15	0
56	MG	BA	3786	1/1	0.96	0.08	20,20,20,20	0
56	MG	BA	3309	1/1	0.96	0.20	50,50,50,50	0
56	MG	AE	3002	1/1	0.96	0.10	57,57,57,57	0
56	MG	BA	3653	1/1	0.96	0.15	45,45,45,45	0
56	MG	AA	3115	1/1	0.96	0.14	54,54,54,54	0
56	MG	BA	3530	1/1	0.96	0.08	43,43,43,43	0
56	MG	BA	3656	1/1	0.96	0.08	32,32,32,32	0
56	MG	BA	3531	1/1	0.96	0.15	46,46,46,46	0
56	MG	BA	3532	1/1	0.96	0.13	50,50,50,50	0
56	MG	AA	3127	1/1	0.96	0.05	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3799	1/1	0.96	0.11	22,22,22,22	0
56	MG	BA	3313	1/1	0.96	0.18	60,60,60,60	0
56	MG	DA	3080	1/1	0.96	0.09	33,33,33,33	0
56	MG	CA	3113	1/1	0.96	0.08	37,37,37,37	0
56	MG	BO	3003	1/1	0.96	0.06	42,42,42,42	0
56	MG	DA	3083	1/1	0.96	0.07	31,31,31,31	0
56	MG	DA	3084	1/1	0.96	0.09	35,35,35,35	0
56	MG	BA	3064	1/1	0.96	0.08	40,40,40,40	0
56	MG	BA	3662	1/1	0.96	0.12	23,23,23,23	0
56	MG	BP	203	1/1	0.96	0.15	28,28,28,28	0
56	MG	BA	3424	1/1	0.96	0.05	50,50,50,50	0
56	MG	BA	3664	1/1	0.96	0.13	46,46,46,46	0
56	MG	DA	3335	1/1	0.96	0.07	28,28,28,28	0
56	MG	BQ	3004	1/1	0.96	0.23	46,46,46,46	0
56	MG	DA	3093	1/1	0.96	0.07	26,26,26,26	0
56	MG	AL	5001	1/1	0.96	0.11	52,52,52,52	0
56	MG	DA	3096	1/1	0.96	0.11	44,44,44,44	0
56	MG	AA	3129	1/1	0.96	0.05	46,46,46,46	0
56	MG	DA	3342	1/1	0.96	0.12	44,44,44,44	0
56	MG	DA	3343	1/1	0.96	0.05	39,39,39,39	0
56	MG	BA	3213	1/1	0.96	0.25	48,48,48,48	0
56	MG	DA	3345	1/1	0.96	0.06	36,36,36,36	0
56	MG	DA	3615	1/1	0.96	0.13	50,50,50,50	0
56	MG	DA	3346	1/1	0.96	0.05	31,31,31,31	0
56	MG	DA	3099	1/1	0.96	0.09	44,44,44,44	0
56	MG	AA	3221	1/1	0.96	0.08	55,55,55,55	0
56	MG	BS	3003	1/1	0.96	0.07	48,48,48,48	0
56	MG	DA	3351	1/1	0.96	0.08	36,36,36,36	0
56	MG	DA	3102	1/1	0.96	0.07	51,51,51,51	0
56	MG	DA	3104	1/1	0.96	0.09	45,45,45,45	0
56	MG	BA	3811	1/1	0.96	0.08	40,40,40,40	0
56	MG	BA	3429	1/1	0.96	0.10	51,51,51,51	0
56	MG	DA	3107	1/1	0.96	0.11	48,48,48,48	0
56	MG	BA	3068	1/1	0.96	0.16	44,44,44,44	0
56	MG	BU	204	1/1	0.96	0.07	48,48,48,48	0
56	MG	BA	3323	1/1	0.96	0.20	48,48,48,48	0
56	MG	BV	205	1/1	0.96	0.07	46,46,46,46	0
56	MG	BW	201	1/1	0.96	0.08	45,45,45,45	0
56	MG	DA	3364	1/1	0.96	0.14	58,58,58,58	0
56	MG	BA	3324	1/1	0.96	0.08	36,36,36,36	0
56	MG	BA	3218	1/1	0.96	0.14	33,33,33,33	0
56	MG	DA	3119	1/1	0.96	0.12	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BX	3002	1/1	0.96	0.06	37,37,37,37	0
56	MG	DA	3121	1/1	0.96	0.08	41,41,41,41	0
56	MG	BA	3137	1/1	0.96	0.06	35,35,35,35	0
56	MG	DA	3123	1/1	0.96	0.09	38,38,38,38	0
56	MG	BA	3004	1/1	0.96	0.10	33,33,33,33	0
56	MG	BA	3822	1/1	0.96	0.17	18,18,18,18	0
56	MG	BA	3823	1/1	0.96	0.10	57,57,57,57	0
56	MG	BA	3222	1/1	0.96	0.15	42,42,42,42	0
56	MG	DA	3130	1/1	0.96	0.10	49,49,49,49	0
56	MG	BA	3071	1/1	0.96	0.08	32,32,32,32	0
56	MG	BA	3334	1/1	0.96	0.10	35,35,35,35	0
56	MG	DA	3646	1/1	0.96	0.09	27,27,27,27	0
56	MG	BA	3681	1/1	0.96	0.08	39,39,39,39	0
56	MG	BA	3338	1/1	0.96	0.13	44,44,44,44	0
56	MG	BA	3339	1/1	0.96	0.11	30,30,30,30	0
56	MG	AA	3082	1/1	0.96	0.17	34,34,34,34	0
56	MG	BA	3343	1/1	0.96	0.07	45,45,45,45	0
56	MG	B0	107	1/1	0.96	0.07	46,46,46,46	0
56	MG	BA	3143	1/1	0.96	0.18	37,37,37,37	0
56	MG	BA	3144	1/1	0.96	0.18	53,53,53,53	0
56	MG	B3	3002	1/1	0.96	0.12	39,39,39,39	0
56	MG	DA	3144	1/1	0.96	0.19	49,49,49,49	0
56	MG	BA	3239	1/1	0.96	0.10	38,38,38,38	0
56	MG	DA	3398	1/1	0.96	0.06	42,42,42,42	0
56	MG	DA	3399	1/1	0.96	0.07	47,47,47,47	0
56	MG	CA	3154	1/1	0.96	0.13	56,56,56,56	0
56	MG	BA	3693	1/1	0.96	0.11	39,39,39,39	0
56	MG	BA	3240	1/1	0.96	0.06	39,39,39,39	0
56	MG	BA	3006	1/1	0.96	0.07	43,43,43,43	0
56	MG	BA	3696	1/1	0.96	0.10	46,46,46,46	0
56	MG	DA	3666	1/1	0.96	0.06	55,55,55,55	0
56	MG	B7	101	1/1	0.96	0.08	41,41,41,41	0
56	MG	DA	3406	1/1	0.96	0.05	39,39,39,39	0
56	MG	DA	3669	1/1	0.96	0.11	46,46,46,46	0
56	MG	B7	102	1/1	0.96	0.09	27,27,27,27	0
56	MG	BA	3146	1/1	0.96	0.13	62,62,62,62	0
56	MG	B8	101	1/1	0.96	0.10	47,47,47,47	0
56	MG	BA	3245	1/1	0.96	0.13	26,26,26,26	0
56	MG	AA	3068	1/1	0.96	0.23	55,55,55,55	0
56	MG	DA	3161	1/1	0.96	0.08	41,41,41,41	0
56	MG	BA	3845	1/1	0.96	0.07	28,28,28,28	0
56	MG	BA	3702	1/1	0.96	0.06	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3164	1/1	0.96	0.12	61,61,61,61	0
56	MG	AA	3186	1/1	0.96	0.10	43,43,43,43	0
56	MG	BA	3149	1/1	0.96	0.06	35,35,35,35	0
56	MG	DA	3169	1/1	0.96	0.15	44,44,44,44	0
56	MG	BA	3253	1/1	0.96	0.07	29,29,29,29	0
56	MG	BA	3257	1/1	0.96	0.10	45,45,45,45	0
56	MG	BA	3360	1/1	0.96	0.06	49,49,49,49	0
56	MG	DB	3015	1/1	0.96	0.06	44,44,44,44	0
56	MG	BA	3853	1/1	0.96	0.05	41,41,41,41	0
56	MG	CA	3008	1/1	0.96	0.10	49,49,49,49	0
56	MG	BA	3151	1/1	0.96	0.15	41,41,41,41	0
56	MG	BA	3855	1/1	0.96	0.08	53,53,53,53	0
56	MG	BA	3856	1/1	0.96	0.05	40,40,40,40	0
56	MG	DA	3427	1/1	0.96	0.06	35,35,35,35	0
56	MG	BA	3463	1/1	0.96	0.08	23,23,23,23	0
56	MG	CA	3178	1/1	0.96	0.08	52,52,52,52	0
56	MG	AA	3132	1/1	0.96	0.04	42,42,42,42	0
56	MG	DA	3186	1/1	0.96	0.17	54,54,54,54	0
56	MG	BA	3260	1/1	0.96	0.06	40,40,40,40	0
56	MG	DA	3434	1/1	0.96	0.08	47,47,47,47	0
56	MG	BA	3364	1/1	0.96	0.20	57,57,57,57	0
56	MG	DE	307	1/1	0.96	0.09	53,53,53,53	0
56	MG	DA	3189	1/1	0.96	0.16	39,39,39,39	0
56	MG	BA	3714	1/1	0.96	0.05	58,58,58,58	0
56	MG	BA	3586	1/1	0.96	0.21	40,40,40,40	0
56	MG	BA	3085	1/1	0.96	0.10	27,27,27,27	0
56	MG	DA	3195	1/1	0.96	0.07	39,39,39,39	0
56	MG	DA	3196	1/1	0.96	0.08	46,46,46,46	0
56	MG	CA	3020	1/1	0.96	0.21	57,57,57,57	0
56	MG	DA	3198	1/1	0.96	0.14	45,45,45,45	0
56	MG	DQ	3002	1/1	0.96	0.05	35,35,35,35	0
56	MG	BA	3366	1/1	0.96	0.10	25,25,25,25	0
56	MG	DA	3448	1/1	0.96	0.13	36,36,36,36	0
56	MG	DT	3001	1/1	0.96	0.22	54,54,54,54	0
56	MG	BA	3155	1/1	0.96	0.06	39,39,39,39	0
56	MG	CA	3024	1/1	0.96	0.14	55,55,55,55	0
56	MG	DA	3202	1/1	0.96	0.16	42,42,42,42	0
56	MG	BA	3019	1/1	0.96	0.12	34,34,34,34	0
56	MG	BA	3088	1/1	0.96	0.16	28,28,28,28	0
56	MG	BA	3371	1/1	0.96	0.18	34,34,34,34	0
56	MG	DA	3208	1/1	0.96	0.19	46,46,46,46	0
56	MG	AA	3227	1/1	0.96	0.05	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	AX	3002	1/1	0.96	0.14	49,49,49,49	0
56	MG	BA	3477	1/1	0.96	0.19	41,41,41,41	0
56	MG	CA	3031	1/1	0.96	0.11	51,51,51,51	0
56	MG	AA	3133	1/1	0.96	0.10	32,32,32,32	0
56	MG	CA	3197	1/1	0.96	0.07	43,43,43,43	0
56	MG	BA	3877	1/1	0.96	0.08	44,44,44,44	0
56	MG	BA	3726	1/1	0.96	0.14	39,39,39,39	0
56	MG	BA	3272	1/1	0.96	0.15	40,40,40,40	0
56	MG	DA	3465	1/1	0.96	0.10	38,38,38,38	0
56	MG	DA	3466	1/1	0.96	0.13	50,50,50,50	0
56	MG	BA	3273	1/1	0.96	0.10	50,50,50,50	0
56	MG	BA	3884	1/1	0.96	0.14	27,27,27,27	0
59	ZN	CN	501	1/1	0.96	0.08	83,83,83,83	0
56	MG	BA	3274	1/1	0.96	0.21	45,45,45,45	0
60	K	AX	3001	1/1	0.96	0.06	45,45,45,45	0
60	K	CX	3001	1/1	0.96	0.09	62,62,62,62	0
56	MG	BA	3246	1/1	0.97	0.05	30,30,30,30	0
56	MG	DA	3063	1/1	0.97	0.07	34,34,34,34	0
56	MG	BQ	3003	1/1	0.97	0.09	54,54,54,54	0
56	MG	BA	3679	1/1	0.97	0.06	33,33,33,33	0
56	MG	BQ	3005	1/1	0.97	0.06	37,37,37,37	0
56	MG	AA	3215	1/1	0.97	0.07	47,47,47,47	0
56	MG	BA	3164	1/1	0.97	0.07	33,33,33,33	0
56	MG	DA	3283	1/1	0.97	0.09	44,44,44,44	0
56	MG	BA	3682	1/1	0.97	0.09	39,39,39,39	0
56	MG	BA	3559	1/1	0.97	0.05	37,37,37,37	0
56	MG	BS	3002	1/1	0.97	0.12	39,39,39,39	0
56	MG	DA	3287	1/1	0.97	0.06	33,33,33,33	0
56	MG	BA	3684	1/1	0.97	0.10	55,55,55,55	0
56	MG	BT	5002	1/1	0.97	0.04	49,49,49,49	0
56	MG	BA	3560	1/1	0.97	0.08	28,28,28,28	0
56	MG	DA	3520	1/1	0.97	0.07	38,38,38,38	0
56	MG	BA	3112	1/1	0.97	0.20	49,49,49,49	0
56	MG	BA	3687	1/1	0.97	0.13	49,49,49,49	0
56	MG	BA	3688	1/1	0.97	0.09	41,41,41,41	0
56	MG	CA	3119	1/1	0.97	0.17	48,48,48,48	0
56	MG	BU	206	1/1	0.97	0.12	38,38,38,38	0
56	MG	BU	207	1/1	0.97	0.15	37,37,37,37	0
56	MG	BU	208	1/1	0.97	0.15	34,34,34,34	0
56	MG	BA	3252	1/1	0.97	0.10	38,38,38,38	0
56	MG	BA	3835	1/1	0.97	0.05	34,34,34,34	0
56	MG	BA	3024	1/1	0.97	0.04	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3531	1/1	0.97	0.08	56,56,56,56	0
56	MG	BA	3255	1/1	0.97	0.06	42,42,42,42	0
56	MG	DA	3533	1/1	0.97	0.06	59,59,59,59	0
56	MG	BA	3565	1/1	0.97	0.07	45,45,45,45	0
56	MG	BW	204	1/1	0.97	0.11	23,23,23,23	0
56	MG	DA	3089	1/1	0.97	0.08	46,46,46,46	0
56	MG	BX	3001	1/1	0.97	0.20	37,37,37,37	0
56	MG	DA	3091	1/1	0.97	0.12	32,32,32,32	0
56	MG	DA	3539	1/1	0.97	0.06	56,56,56,56	0
56	MG	BA	3452	1/1	0.97	0.08	25,25,25,25	0
56	MG	BA	3167	1/1	0.97	0.14	33,33,33,33	0
56	MG	AA	3100	1/1	0.97	0.05	41,41,41,41	0
56	MG	DA	3312	1/1	0.97	0.07	36,36,36,36	0
56	MG	BA	3357	1/1	0.97	0.07	40,40,40,40	0
56	MG	BX	3006	1/1	0.97	0.09	35,35,35,35	0
56	MG	BA	3457	1/1	0.97	0.09	25,25,25,25	0
56	MG	DA	3316	1/1	0.97	0.05	29,29,29,29	0
56	MG	BA	3458	1/1	0.97	0.06	25,25,25,25	0
56	MG	BA	3169	1/1	0.97	0.12	40,40,40,40	0
56	MG	BA	3170	1/1	0.97	0.08	40,40,40,40	0
56	MG	BA	3261	1/1	0.97	0.06	38,38,38,38	0
56	MG	DA	3103	1/1	0.97	0.06	45,45,45,45	0
56	MG	BA	3069	1/1	0.97	0.10	32,32,32,32	0
56	MG	B0	102	1/1	0.97	0.07	47,47,47,47	0
56	MG	BA	3172	1/1	0.97	0.13	32,32,32,32	0
56	MG	AA	3155	1/1	0.97	0.04	42,42,42,42	0
56	MG	DA	3108	1/1	0.97	0.10	38,38,38,38	0
56	MG	BA	3266	1/1	0.97	0.17	28,28,28,28	0
56	MG	BA	3176	1/1	0.97	0.07	53,53,53,53	0
56	MG	BA	3177	1/1	0.97	0.15	40,40,40,40	0
56	MG	B2	3001	1/1	0.97	0.07	44,44,44,44	0
56	MG	DA	3113	1/1	0.97	0.06	39,39,39,39	0
56	MG	BA	3582	1/1	0.97	0.09	34,34,34,34	0
56	MG	DA	3333	1/1	0.97	0.09	31,31,31,31	0
56	MG	AA	3105	1/1	0.97	0.07	48,48,48,48	0
56	MG	BA	3584	1/1	0.97	0.13	40,40,40,40	0
56	MG	DA	3118	1/1	0.97	0.19	47,47,47,47	0
56	MG	DA	3571	1/1	0.97	0.12	43,43,43,43	0
56	MG	BA	3180	1/1	0.97	0.19	31,31,31,31	0
56	MG	AA	3014	1/1	0.97	0.05	47,47,47,47	0
56	MG	BA	3860	1/1	0.97	0.08	37,37,37,37	0
56	MG	BA	3370	1/1	0.97	0.09	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3576	1/1	0.97	0.05	49,49,49,49	0
56	MG	AA	3128	1/1	0.97	0.10	27,27,27,27	0
56	MG	BA	3120	1/1	0.97	0.13	50,50,50,50	0
56	MG	DA	3126	1/1	0.97	0.05	33,33,33,33	0
56	MG	BA	3373	1/1	0.97	0.09	28,28,28,28	0
56	MG	BA	3187	1/1	0.97	0.07	41,41,41,41	0
56	MG	BA	3276	1/1	0.97	0.15	42,42,42,42	0
56	MG	BA	3867	1/1	0.97	0.08	58,58,58,58	0
56	MG	AA	3208	1/1	0.97	0.05	48,48,48,48	0
56	MG	BA	3125	1/1	0.97	0.12	29,29,29,29	0
56	MG	BA	3190	1/1	0.97	0.20	38,38,38,38	0
56	MG	BA	3599	1/1	0.97	0.07	60,60,60,60	0
56	MG	DA	3590	1/1	0.97	0.05	37,37,37,37	0
56	MG	BA	3483	1/1	0.97	0.06	30,30,30,30	0
56	MG	BA	3284	1/1	0.97	0.07	39,39,39,39	0
56	MG	BA	3035	1/1	0.97	0.10	27,27,27,27	0
56	MG	BA	3082	1/1	0.97	0.04	23,23,23,23	0
56	MG	BA	3880	1/1	0.97	0.05	35,35,35,35	0
56	MG	BA	3003	1/1	0.97	0.05	24,24,24,24	0
56	MG	BA	3605	1/1	0.97	0.07	49,49,49,49	0
56	MG	BA	3733	1/1	0.97	0.10	42,42,42,42	0
56	MG	DA	3599	1/1	0.97	0.09	51,51,51,51	0
56	MG	BA	3084	1/1	0.97	0.10	42,42,42,42	0
56	MG	BA	3735	1/1	0.97	0.09	30,30,30,30	0
56	MG	BA	3489	1/1	0.97	0.06	60,60,60,60	0
56	MG	DA	3148	1/1	0.97	0.13	50,50,50,50	0
56	MG	BA	3888	1/1	0.97	0.08	26,26,26,26	0
56	MG	DA	3370	1/1	0.97	0.06	49,49,49,49	0
56	MG	BA	3608	1/1	0.97	0.12	58,58,58,58	0
56	MG	BA	3609	1/1	0.97	0.04	30,30,30,30	0
56	MG	DA	3373	1/1	0.97	0.14	60,60,60,60	0
56	MG	BA	3895	1/1	0.97	0.04	30,30,30,30	0
56	MG	DA	3377	1/1	0.97	0.09	43,43,43,43	0
56	MG	BA	3199	1/1	0.97	0.10	31,31,31,31	0
56	MG	AA	3168	1/1	0.97	0.17	53,53,53,53	0
56	MG	DA	3156	1/1	0.97	0.10	33,33,33,33	0
56	MG	BA	3202	1/1	0.97	0.09	30,30,30,30	0
56	MG	AA	3199	1/1	0.97	0.10	54,54,54,54	0
56	MG	DA	3159	1/1	0.97	0.06	45,45,45,45	0
56	MG	BA	3294	1/1	0.97	0.09	38,38,38,38	0
56	MG	BA	3615	1/1	0.97	0.06	28,28,28,28	0
56	MG	BA	3087	1/1	0.97	0.08	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3136	1/1	0.97	0.15	49,49,49,49	0
56	MG	BA	3041	1/1	0.97	0.11	31,31,31,31	0
56	MG	BA	3138	1/1	0.97	0.15	40,40,40,40	0
56	MG	BA	3395	1/1	0.97	0.09	44,44,44,44	0
56	MG	BA	3089	1/1	0.97	0.07	47,47,47,47	0
56	MG	BA	3092	1/1	0.97	0.15	31,31,31,31	0
56	MG	DA	3394	1/1	0.97	0.08	55,55,55,55	0
56	MG	BA	3093	1/1	0.97	0.25	41,41,41,41	0
56	MG	DA	3172	1/1	0.97	0.14	38,38,38,38	0
56	MG	DA	3173	1/1	0.97	0.15	41,41,41,41	0
56	MG	AA	3069	1/1	0.97	0.10	44,44,44,44	0
56	MG	BB	3008	1/1	0.97	0.17	50,50,50,50	0
56	MG	BA	3303	1/1	0.97	0.06	27,27,27,27	0
56	MG	BB	3010	1/1	0.97	0.12	38,38,38,38	0
56	MG	DA	3178	1/1	0.97	0.08	31,31,31,31	0
56	MG	CA	3198	1/1	0.97	0.07	39,39,39,39	0
56	MG	BA	3304	1/1	0.97	0.08	43,43,43,43	0
56	MG	BA	3760	1/1	0.97	0.09	36,36,36,36	0
56	MG	CA	3201	1/1	0.97	0.10	51,51,51,51	0
56	MG	BA	3007	1/1	0.97	0.11	43,43,43,43	0
56	MG	DA	3185	1/1	0.97	0.09	39,39,39,39	0
56	MG	CA	3042	1/1	0.97	0.17	48,48,48,48	0
56	MG	BA	3404	1/1	0.97	0.13	38,38,38,38	0
56	MG	BA	3009	1/1	0.97	0.05	23,23,23,23	0
56	MG	BA	3511	1/1	0.97	0.06	38,38,38,38	0
56	MG	AA	3029	1/1	0.97	0.30	56,56,56,56	0
56	MG	BB	3018	1/1	0.97	0.07	32,32,32,32	0
56	MG	BA	3216	1/1	0.97	0.12	35,35,35,35	0
56	MG	CL	201	1/1	0.97	0.07	55,55,55,55	0
56	MG	BA	3015	1/1	0.97	0.07	33,33,33,33	0
56	MG	BA	3049	1/1	0.97	0.12	32,32,32,32	0
56	MG	BA	3516	1/1	0.97	0.06	49,49,49,49	0
56	MG	BA	3410	1/1	0.97	0.09	19,19,19,19	0
56	MG	BA	3100	1/1	0.97	0.13	33,33,33,33	0
56	MG	BA	3519	1/1	0.97	0.15	46,46,46,46	0
56	MG	AA	3226	1/1	0.97	0.08	34,34,34,34	0
56	MG	AK	3001	1/1	0.97	0.13	41,41,41,41	0
56	MG	DA	3204	1/1	0.97	0.05	42,42,42,42	0
56	MG	BB	3029	1/1	0.97	0.05	21,21,21,21	0
56	MG	DA	3206	1/1	0.97	0.05	33,33,33,33	0
56	MG	BA	3223	1/1	0.97	0.21	36,36,36,36	0
56	MG	BA	3224	1/1	0.97	0.20	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3663	1/1	0.97	0.10	46,46,46,46	0
56	MG	BA	3225	1/1	0.97	0.18	32,32,32,32	0
56	MG	DA	3431	1/1	0.97	0.06	34,34,34,34	0
56	MG	BA	3153	1/1	0.97	0.17	31,31,31,31	0
56	MG	DA	3211	1/1	0.97	0.05	37,37,37,37	0
56	MG	BD	313	1/1	0.97	0.13	39,39,39,39	0
56	MG	BA	3319	1/1	0.97	0.07	36,36,36,36	0
56	MG	DA	3436	1/1	0.97	0.07	38,38,38,38	0
56	MG	BA	3649	1/1	0.97	0.08	24,24,24,24	0
56	MG	CA	3066	1/1	0.97	0.17	44,44,44,44	0
56	MG	DA	3440	1/1	0.97	0.05	34,34,34,34	0
56	MG	BA	3422	1/1	0.97	0.05	24,24,24,24	0
56	MG	BA	3227	1/1	0.97	0.07	33,33,33,33	0
56	MG	BA	3321	1/1	0.97	0.06	43,43,43,43	0
56	MG	DB	3006	1/1	0.97	0.04	40,40,40,40	0
56	MG	BA	3056	1/1	0.97	0.09	47,47,47,47	0
56	MG	DA	3010	1/1	0.97	0.08	36,36,36,36	0
56	MG	DA	3011	1/1	0.97	0.05	34,34,34,34	0
56	MG	BA	3790	1/1	0.97	0.04	21,21,21,21	0
56	MG	DA	3013	1/1	0.97	0.15	39,39,39,39	0
56	MG	DA	3224	1/1	0.97	0.06	32,32,32,32	0
56	MG	DA	3014	1/1	0.97	0.10	33,33,33,33	0
56	MG	BA	3229	1/1	0.97	0.17	33,33,33,33	0
56	MG	DA	3227	1/1	0.97	0.12	39,39,39,39	0
56	MG	BA	3230	1/1	0.97	0.10	35,35,35,35	0
56	MG	BA	3232	1/1	0.97	0.05	33,33,33,33	0
56	MG	DA	3019	1/1	0.97	0.05	30,30,30,30	0
56	MG	BA	3328	1/1	0.97	0.05	36,36,36,36	0
56	MG	DA	3232	1/1	0.97	0.07	44,44,44,44	0
56	MG	DA	3233	1/1	0.97	0.07	36,36,36,36	0
56	MG	DD	301	1/1	0.97	0.07	38,38,38,38	0
56	MG	DD	302	1/1	0.97	0.05	42,42,42,42	0
56	MG	CA	3076	1/1	0.97	0.12	42,42,42,42	0
56	MG	DD	304	1/1	0.97	0.09	26,26,26,26	0
56	MG	BA	3234	1/1	0.97	0.07	43,43,43,43	0
56	MG	BF	304	1/1	0.97	0.08	34,34,34,34	0
56	MG	BA	3536	1/1	0.97	0.12	34,34,34,34	0
56	MG	BA	3018	1/1	0.97	0.11	32,32,32,32	0
56	MG	DA	3239	1/1	0.97	0.10	44,44,44,44	0
56	MG	BA	3539	1/1	0.97	0.12	38,38,38,38	0
56	MG	DA	3027	1/1	0.97	0.10	42,42,42,42	0
56	MG	DA	3029	1/1	0.97	0.10	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3030	1/1	0.97	0.23	43,43,43,43	0
56	MG	BA	3061	1/1	0.97	0.10	19,19,19,19	0
56	MG	DA	3032	1/1	0.97	0.16	44,44,44,44	0
56	MG	DF	305	1/1	0.97	0.11	39,39,39,39	0
56	MG	BA	3433	1/1	0.97	0.05	34,34,34,34	0
56	MG	BA	3106	1/1	0.97	0.04	27,27,27,27	0
56	MG	BF	315	1/1	0.97	0.08	47,47,47,47	0
56	MG	DO	5001	1/1	0.97	0.08	51,51,51,51	0
56	MG	DA	3037	1/1	0.97	0.08	32,32,32,32	0
56	MG	DQ	3001	1/1	0.97	0.07	42,42,42,42	0
56	MG	BA	3158	1/1	0.97	0.06	12,12,12,12	0
56	MG	BG	202	1/1	0.97	0.09	36,36,36,36	0
56	MG	BA	3804	1/1	0.97	0.06	37,37,37,37	0
56	MG	DA	3042	1/1	0.97	0.07	27,27,27,27	0
56	MG	DA	3479	1/1	0.97	0.07	43,43,43,43	0
56	MG	BA	3544	1/1	0.97	0.05	40,40,40,40	0
56	MG	DA	3481	1/1	0.97	0.06	41,41,41,41	0
56	MG	DA	3044	1/1	0.97	0.10	48,48,48,48	0
56	MG	DA	3256	1/1	0.97	0.05	47,47,47,47	0
56	MG	BA	3806	1/1	0.97	0.06	44,44,44,44	0
56	MG	BA	3337	1/1	0.97	0.16	24,24,24,24	0
56	MG	DA	3047	1/1	0.97	0.17	38,38,38,38	0
56	MG	BA	3241	1/1	0.97	0.17	48,48,48,48	0
56	MG	DA	3489	1/1	0.97	0.09	40,40,40,40	0
56	MG	BA	3547	1/1	0.97	0.07	48,48,48,48	0
56	MG	BN	3001	1/1	0.97	0.20	41,41,41,41	0
56	MG	AA	3213	1/1	0.97	0.06	64,64,64,64	0
56	MG	AM	201	1/1	0.97	0.05	53,53,53,53	0
56	MG	BA	3551	1/1	0.97	0.07	37,37,37,37	0
56	MG	BA	3244	1/1	0.97	0.05	39,39,39,39	0
56	MG	DA	3497	1/1	0.97	0.11	50,50,50,50	0
56	MG	D8	101	1/1	0.97	0.12	50,50,50,50	0
56	MG	BA	3674	1/1	0.97	0.17	31,31,31,31	0
56	MG	DA	3057	1/1	0.97	0.04	20,20,20,20	0
56	MG	DA	3271	1/1	0.97	0.08	48,48,48,48	0
56	MG	BA	3344	1/1	0.97	0.18	33,33,33,33	0
56	MG	BA	3345	1/1	0.97	0.09	47,47,47,47	0
56	MG	BP	204	1/1	0.97	0.10	19,19,19,19	0
56	MG	AA	3146	1/1	0.97	0.07	42,42,42,42	0
56	MG	BD	309	1/1	0.98	0.05	32,32,32,32	0
56	MG	BD	310	1/1	0.98	0.06	46,46,46,46	0
56	MG	BD	311	1/1	0.98	0.05	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BA	3277	1/1	0.98	0.10	21,21,21,21	0
56	MG	BA	3416	1/1	0.98	0.05	29,29,29,29	0
56	MG	BA	3346	1/1	0.98	0.12	38,38,38,38	0
56	MG	BA	3832	1/1	0.98	0.06	38,38,38,38	0
56	MG	BA	3030	1/1	0.98	0.06	28,28,28,28	0
56	MG	BE	305	1/1	0.98	0.15	21,21,21,21	0
56	MG	BA	3834	1/1	0.98	0.10	35,35,35,35	0
56	MG	BA	3175	1/1	0.98	0.05	39,39,39,39	0
56	MG	DA	3094	1/1	0.98	0.05	41,41,41,41	0
56	MG	BE	308	1/1	0.98	0.05	25,25,25,25	0
56	MG	AA	3057	1/1	0.98	0.06	32,32,32,32	0
56	MG	BA	3738	1/1	0.98	0.05	46,46,46,46	0
56	MG	BA	3496	1/1	0.98	0.11	22,22,22,22	0
56	MG	BA	3573	1/1	0.98	0.07	34,34,34,34	0
56	MG	BA	3421	1/1	0.98	0.03	24,24,24,24	0
56	MG	BA	3281	1/1	0.98	0.09	38,38,38,38	0
56	MG	DA	3260	1/1	0.98	0.08	39,39,39,39	0
56	MG	BF	303	1/1	0.98	0.05	31,31,31,31	0
56	MG	BA	3282	1/1	0.98	0.11	32,32,32,32	0
56	MG	BA	3500	1/1	0.98	0.06	15,15,15,15	0
56	MG	BA	3283	1/1	0.98	0.05	43,43,43,43	0
56	MG	BF	308	1/1	0.98	0.05	33,33,33,33	0
56	MG	BF	309	1/1	0.98	0.08	30,30,30,30	0
56	MG	BF	310	1/1	0.98	0.17	37,37,37,37	0
56	MG	DA	3268	1/1	0.98	0.07	36,36,36,36	0
56	MG	DA	3606	1/1	0.98	0.04	61,61,61,61	0
56	MG	BA	3072	1/1	0.98	0.07	27,27,27,27	0
56	MG	BA	3846	1/1	0.98	0.07	30,30,30,30	0
56	MG	BA	3178	1/1	0.98	0.10	29,29,29,29	0
56	MG	DA	3439	1/1	0.98	0.15	50,50,50,50	0
56	MG	BA	3008	1/1	0.98	0.13	24,24,24,24	0
56	MG	AA	3121	1/1	0.98	0.08	49,49,49,49	0
56	MG	BA	3141	1/1	0.98	0.09	32,32,32,32	0
56	MG	DA	3115	1/1	0.98	0.12	44,44,44,44	0
56	MG	BA	3289	1/1	0.98	0.12	30,30,30,30	0
56	MG	BA	3752	1/1	0.98	0.09	54,54,54,54	0
56	MG	BA	3753	1/1	0.98	0.09	39,39,39,39	0
56	MG	BA	3076	1/1	0.98	0.10	17,17,17,17	0
56	MG	BA	3231	1/1	0.98	0.10	21,21,21,21	0
56	MG	BA	3756	1/1	0.98	0.05	53,53,53,53	0
56	MG	BA	3183	1/1	0.98	0.12	35,35,35,35	0
56	MG	BA	3233	1/1	0.98	0.04	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3124	1/1	0.98	0.13	35,35,35,35	0
56	MG	BA	3077	1/1	0.98	0.13	27,27,27,27	0
56	MG	BN	3003	1/1	0.98	0.09	41,41,41,41	0
56	MG	BN	3004	1/1	0.98	0.15	37,37,37,37	0
56	MG	BA	3235	1/1	0.98	0.08	17,17,17,17	0
56	MG	BA	3236	1/1	0.98	0.05	30,30,30,30	0
56	MG	BA	3186	1/1	0.98	0.13	37,37,37,37	0
56	MG	CF	3001	1/1	0.98	0.09	31,31,31,31	0
56	MG	BA	3593	1/1	0.98	0.04	44,44,44,44	0
56	MG	BA	3078	1/1	0.98	0.04	11,11,11,11	0
56	MG	BP	201	1/1	0.98	0.16	29,29,29,29	0
56	MG	AA	3072	1/1	0.98	0.06	40,40,40,40	0
56	MG	BA	3109	1/1	0.98	0.13	20,20,20,20	0
56	MG	BA	3597	1/1	0.98	0.03	18,18,18,18	0
56	MG	DA	3139	1/1	0.98	0.04	35,35,35,35	0
56	MG	DA	3300	1/1	0.98	0.05	29,29,29,29	0
56	MG	BP	206	1/1	0.98	0.04	31,31,31,31	0
56	MG	BA	3052	1/1	0.98	0.10	15,15,15,15	0
56	MG	CQ	3001	1/1	0.98	0.05	56,56,56,56	0
56	MG	BQ	3002	1/1	0.98	0.08	24,24,24,24	0
56	MG	BA	3869	1/1	0.98	0.08	20,20,20,20	0
56	MG	BA	3081	1/1	0.98	0.04	21,21,21,21	0
56	MG	BA	3054	1/1	0.98	0.04	20,20,20,20	0
56	MG	BA	3771	1/1	0.98	0.13	29,29,29,29	0
56	MG	BA	3772	1/1	0.98	0.15	26,26,26,26	0
56	MG	BA	3150	1/1	0.98	0.06	42,42,42,42	0
56	MG	BA	3055	1/1	0.98	0.08	25,25,25,25	0
56	MG	BS	3001	1/1	0.98	0.08	39,39,39,39	0
56	MG	DA	3152	1/1	0.98	0.15	39,39,39,39	0
56	MG	BA	3775	1/1	0.98	0.12	35,35,35,35	0
56	MG	BA	3878	1/1	0.98	0.05	15,15,15,15	0
56	MG	BT	5001	1/1	0.98	0.10	56,56,56,56	0
56	MG	BA	3879	1/1	0.98	0.13	28,28,28,28	0
56	MG	DA	3485	1/1	0.98	0.05	31,31,31,31	0
56	MG	BA	3196	1/1	0.98	0.07	26,26,26,26	0
56	MG	BA	3247	1/1	0.98	0.07	35,35,35,35	0
56	MG	BA	3197	1/1	0.98	0.18	27,27,27,27	0
56	MG	DA	3003	1/1	0.98	0.13	24,24,24,24	0
56	MG	DA	3004	1/1	0.98	0.12	36,36,36,36	0
56	MG	BA	3198	1/1	0.98	0.14	34,34,34,34	0
56	MG	BU	205	1/1	0.98	0.05	42,42,42,42	0
56	MG	BA	3780	1/1	0.98	0.07	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	DA	3009	1/1	0.98	0.07	39,39,39,39	0
56	MG	BA	3250	1/1	0.98	0.12	38,38,38,38	0
56	MG	DA	3168	1/1	0.98	0.04	28,28,28,28	0
56	MG	BA	3453	1/1	0.98	0.05	17,17,17,17	0
56	MG	BU	210	1/1	0.98	0.07	28,28,28,28	0
56	MG	DA	3670	1/1	0.98	0.07	51,51,51,51	0
56	MG	BV	201	1/1	0.98	0.09	32,32,32,32	0
56	MG	BV	202	1/1	0.98	0.03	23,23,23,23	0
56	MG	DA	3015	1/1	0.98	0.11	37,37,37,37	0
56	MG	BV	203	1/1	0.98	0.11	23,23,23,23	0
56	MG	BA	3023	1/1	0.98	0.04	20,20,20,20	0
56	MG	BA	3057	1/1	0.98	0.04	39,39,39,39	0
56	MG	BA	3891	1/1	0.98	0.16	33,33,33,33	0
56	MG	BA	3892	1/1	0.98	0.07	28,28,28,28	0
56	MG	DA	3339	1/1	0.98	0.07	57,57,57,57	0
56	MG	BA	3893	1/1	0.98	0.10	26,26,26,26	0
56	MG	BA	3201	1/1	0.98	0.07	17,17,17,17	0
56	MG	BW	205	1/1	0.98	0.07	34,34,34,34	0
56	MG	DA	3182	1/1	0.98	0.11	33,33,33,33	0
56	MG	BA	3254	1/1	0.98	0.06	41,41,41,41	0
56	MG	BA	3315	1/1	0.98	0.04	39,39,39,39	0
56	MG	AA	3191	1/1	0.98	0.06	40,40,40,40	0
56	MG	BA	3697	1/1	0.98	0.10	35,35,35,35	0
56	MG	BA	3899	1/1	0.98	0.09	40,40,40,40	0
56	MG	BA	3256	1/1	0.98	0.05	39,39,39,39	0
56	MG	DA	3350	1/1	0.98	0.07	29,29,29,29	0
56	MG	BA	3059	1/1	0.98	0.05	36,36,36,36	0
56	MG	DA	3190	1/1	0.98	0.17	47,47,47,47	0
56	MG	BA	3060	1/1	0.98	0.10	39,39,39,39	0
56	MG	BA	3701	1/1	0.98	0.17	44,44,44,44	0
56	MG	BA	3025	1/1	0.98	0.08	23,23,23,23	0
56	MG	BA	3090	1/1	0.98	0.04	28,28,28,28	0
56	MG	DA	3036	1/1	0.98	0.04	34,34,34,34	0
56	MG	BA	3121	1/1	0.98	0.05	33,33,33,33	0
56	MG	BA	3123	1/1	0.98	0.20	28,28,28,28	0
56	MG	DA	3361	1/1	0.98	0.06	44,44,44,44	0
56	MG	BA	3467	1/1	0.98	0.07	27,27,27,27	0
56	MG	BB	3003	1/1	0.98	0.09	31,31,31,31	0
56	MG	BA	3394	1/1	0.98	0.08	20,20,20,20	0
56	MG	DA	3365	1/1	0.98	0.06	38,38,38,38	0
56	MG	BA	3091	1/1	0.98	0.04	30,30,30,30	0
56	MG	B1	101	1/1	0.98	0.21	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
56	MG	BA	3325	1/1	0.98	0.12	33,33,33,33	0
56	MG	BB	3007	1/1	0.98	0.12	56,56,56,56	0
56	MG	BA	3548	1/1	0.98	0.04	49,49,49,49	0
56	MG	BA	3040	1/1	0.98	0.09	25,25,25,25	0
56	MG	DA	3540	1/1	0.98	0.05	51,51,51,51	0
56	MG	BA	3712	1/1	0.98	0.14	32,32,32,32	0
56	MG	B5	101	1/1	0.98	0.16	32,32,32,32	0
56	MG	BA	3265	1/1	0.98	0.10	23,23,23,23	0
56	MG	B5	104	1/1	0.98	0.19	27,27,27,27	0
56	MG	BA	3329	1/1	0.98	0.07	32,32,32,32	0
56	MG	BA	3063	1/1	0.98	0.14	41,41,41,41	0
56	MG	BA	3401	1/1	0.98	0.06	10,10,10,10	0
56	MG	BA	3026	1/1	0.98	0.05	42,42,42,42	0
56	MG	BA	3812	1/1	0.98	0.04	22,22,22,22	0
56	MG	AA	3173	1/1	0.98	0.04	43,43,43,43	0
56	MG	AA	3051	1/1	0.98	0.10	22,22,22,22	0
56	MG	BA	3270	1/1	0.98	0.04	28,28,28,28	0
56	MG	BA	3816	1/1	0.98	0.04	35,35,35,35	0
56	MG	BA	3335	1/1	0.98	0.09	33,33,33,33	0
56	MG	DA	3064	1/1	0.98	0.09	44,44,44,44	0
56	MG	BA	3336	1/1	0.98	0.13	43,43,43,43	0
56	MG	AA	3140	1/1	0.98	0.04	45,45,45,45	0
56	MG	BA	3820	1/1	0.98	0.07	30,30,30,30	0
56	MG	BA	3045	1/1	0.98	0.12	35,35,35,35	0
56	MG	BA	3046	1/1	0.98	0.06	30,30,30,30	0
56	MG	BA	3642	1/1	0.98	0.05	27,27,27,27	0
56	MG	BB	3028	1/1	0.98	0.04	42,42,42,42	0
56	MG	BA	3134	1/1	0.98	0.15	29,29,29,29	0
56	MG	BA	3728	1/1	0.98	0.06	36,36,36,36	0
56	MG	BD	301	1/1	0.98	0.06	31,31,31,31	0
56	MG	BD	302	1/1	0.98	0.18	39,39,39,39	0
56	MG	BA	3220	1/1	0.98	0.08	34,34,34,34	0
56	MG	BA	3646	1/1	0.98	0.06	46,46,46,46	0
56	MG	BA	3135	1/1	0.98	0.10	37,37,37,37	0
58	SF4	AD	501	8/8	0.98	0.04	50,60,65,68	0
58	SF4	CD	501	8/8	0.98	0.04	50,59,70,75	0
56	MG	BD	306	1/1	0.98	0.12	25,25,25,25	0
59	ZN	DY	501	1/1	0.98	0.04	81,81,81,81	0
56	MG	BD	307	1/1	0.98	0.09	30,30,30,30	0
59	ZN	D9	501	1/1	0.98	0.05	63,63,63,63	0
56	MG	BD	308	1/1	0.98	0.05	41,41,41,41	0
56	MG	CA	3018	1/1	0.98	0.13	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	BP	202	1/1	0.99	0.08	27,27,27,27	0
56	MG	BA	3039	1/1	0.99	0.11	17,17,17,17	0
56	MG	BA	3598	1/1	0.99	0.06	40,40,40,40	0
56	MG	DA	3553	1/1	0.99	0.04	58,58,58,58	0
56	MG	BA	3014	1/1	0.99	0.03	21,21,21,21	0
56	MG	BY	504	1/1	0.99	0.14	39,39,39,39	0
56	MG	BA	3174	1/1	0.99	0.13	34,34,34,34	0
56	MG	DA	3494	1/1	0.99	0.03	39,39,39,39	0
56	MG	AA	3145	1/1	0.99	0.03	35,35,35,35	0
56	MG	BA	3475	1/1	0.99	0.12	28,28,28,28	0
56	MG	BA	3538	1/1	0.99	0.10	25,25,25,25	0
56	MG	DA	3375	1/1	0.99	0.05	37,37,37,37	0
56	MG	DA	3376	1/1	0.99	0.03	27,27,27,27	0
56	MG	DA	3041	1/1	0.99	0.03	30,30,30,30	0
56	MG	CA	3022	1/1	0.99	0.02	33,33,33,33	0
56	MG	DA	3565	1/1	0.99	0.02	27,27,27,27	0
56	MG	DD	305	1/1	0.99	0.26	38,38,38,38	0
56	MG	AA	3001	1/1	0.99	0.10	35,35,35,35	0
56	MG	AA	3159	1/1	0.99	0.07	32,32,32,32	0
56	MG	B0	104	1/1	0.99	0.07	35,35,35,35	0
56	MG	DE	303	1/1	0.99	0.05	38,38,38,38	0
56	MG	BA	3478	1/1	0.99	0.04	27,27,27,27	0
56	MG	BA	3122	1/1	0.99	0.05	22,22,22,22	0
56	MG	BA	3886	1/1	0.99	0.10	37,37,37,37	0
56	MG	BF	305	1/1	0.99	0.12	28,28,28,28	0
56	MG	BR	203	1/1	0.99	0.10	29,29,29,29	0
56	MG	BA	3449	1/1	0.99	0.10	39,39,39,39	0
56	MG	DA	3388	1/1	0.99	0.03	32,32,32,32	0
56	MG	BA	3340	1/1	0.99	0.12	34,34,34,34	0
56	MG	B3	3001	1/1	0.99	0.03	23,23,23,23	0
56	MG	BA	3889	1/1	0.99	0.07	29,29,29,29	0
56	MG	DA	3055	1/1	0.99	0.05	33,33,33,33	0
56	MG	BA	3341	1/1	0.99	0.18	28,28,28,28	0
56	MG	BA	3644	1/1	0.99	0.05	18,18,18,18	0
56	MG	AA	3013	1/1	0.99	0.06	21,21,21,21	0
56	MG	DA	3166	1/1	0.99	0.06	39,39,39,39	0
56	MG	DA	3584	1/1	0.99	0.03	57,57,57,57	0
56	MG	BA	3075	1/1	0.99	0.07	22,22,22,22	0
56	MG	DA	3586	1/1	0.99	0.04	31,31,31,31	0
56	MG	AA	3022	1/1	0.99	0.03	35,35,35,35	0
56	MG	DA	3008	1/1	0.99	0.04	33,33,33,33	0
56	MG	BA	3162	1/1	0.99	0.09	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
56	MG	AA	3143	1/1	0.99	0.04	38,38,38,38	0
56	MG	BA	3127	1/1	0.99	0.16	33,33,33,33	0
56	MG	BA	3185	1/1	0.99	0.03	23,23,23,23	0
56	MG	BA	3788	1/1	0.99	0.05	25,25,25,25	0
56	MG	BU	209	1/1	0.99	0.09	24,24,24,24	0
56	MG	AA	3083	1/1	0.99	0.05	34,34,34,34	0
56	MG	BA	3034	1/1	0.99	0.04	20,20,20,20	0
56	MG	BA	3377	1/1	0.99	0.07	35,35,35,35	0
56	MG	BA	3792	1/1	0.99	0.05	47,47,47,47	0
56	MG	BA	3010	1/1	0.99	0.08	26,26,26,26	0
56	MG	DA	3293	1/1	0.99	0.05	34,34,34,34	0
56	MG	CA	3051	1/1	0.99	0.10	32,32,32,32	0
56	MG	AA	3171	1/1	0.99	0.07	46,46,46,46	0
56	MG	BA	3327	1/1	0.99	0.12	20,20,20,20	0
56	MG	BA	3012	1/1	0.99	0.04	31,31,31,31	0
56	MG	BA	3191	1/1	0.99	0.03	31,31,31,31	0
56	MG	DA	3672	1/1	0.99	0.03	43,43,43,43	0
56	MG	BD	312	1/1	0.99	0.11	27,27,27,27	0
56	MG	DA	3357	1/1	0.99	0.04	24,24,24,24	0
56	MG	BA	3013	1/1	0.99	0.11	25,25,25,25	0
56	MG	BA	3215	1/1	0.99	0.06	38,38,38,38	0
59	ZN	AN	501	1/1	0.99	0.05	62,62,62,62	0
59	ZN	BY	501	1/1	0.99	0.03	63,63,63,63	0
59	ZN	B4	501	1/1	0.99	0.04	75,75,75,75	0
56	MG	DA	3028	1/1	0.99	0.04	40,40,40,40	0
56	MG	BA	3053	1/1	0.99	0.10	28,28,28,28	0
56	MG	DA	3136	1/1	0.99	0.06	41,41,41,41	0
59	ZN	D5	103	1/1	0.99	0.04	51,51,51,51	0
59	ZN	D6	501	1/1	0.99	0.03	58,58,58,58	0
56	MG	BA	3413	1/1	0.99	0.06	30,30,30,30	0
56	MG	BA	3874	1/1	0.99	0.10	31,31,31,31	0
56	MG	DA	3194	1/1	0.99	0.03	40,40,40,40	0
59	ZN	B9	501	1/1	1.00	0.04	38,38,38,38	0
59	ZN	B5	103	1/1	1.00	0.03	40,40,40,40	0
59	ZN	B6	102	1/1	1.00	0.06	39,39,39,39	0

6.5 Other polymers [i](#)

There are no such residues in this entry.