wwPDB X-ray Structure Validation Summary Report (i)

Sep 14, 2023 – 07:45 AM EDT

PDB ID	:	4V8H
Title	:	Crystal structure of HPF bound to the 70S ribosome.
Authors	:	Polikanov, Y.S.; Blaha, G.M.; Steitz, T.A.
Deposited on	:	2011-12-11
Resolution	:	3.10 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 (i) 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 (i)) were used in the production of this report:

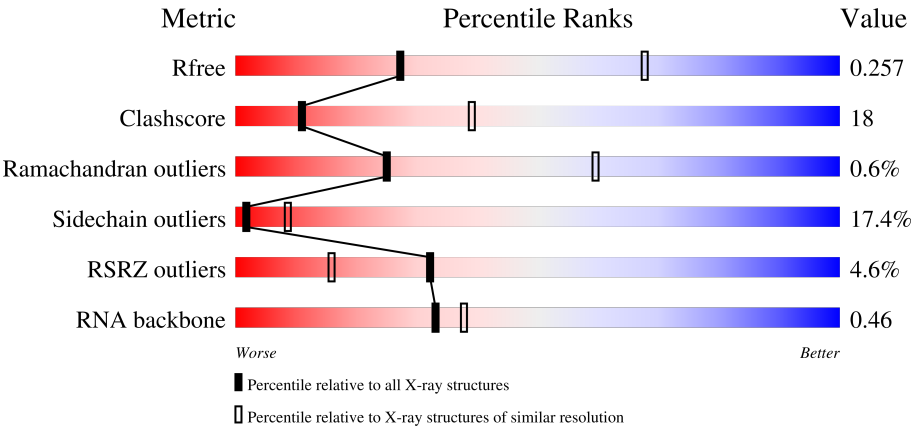
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.35.1

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 3.10 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}	130704	1094 (3.10-3.10)
Clashscore	141614	1184 (3.10-3.10)
Ramachandran outliers	138981	1141 (3.10-3.10)
Sidechain outliers	138945	1141 (3.10-3.10)
RSRZ outliers	127900	1067 (3.10-3.10)
RNA backbone	3102	1116 (3.40-2.80)

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

Mol	Chain	Length	Quality of chain
1	AA	1522	4% 23% 45% 24% 7% .
1	CA	1522	4% 23% 45% 23% 7% .
2	AB	256	3% 37% 40% 13% 10%
2	CB	256	4% 35% 41% 13% 11%

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Mol	Chain	Length	Quality of chain
3	AC	239	2% 44% 33% 9% 14%
3	CC	239	6% 39% 41% 6% 14%
4	AD	209	2% 54% 39% 6%
4	CD	209	53% 40% 6%
5	AE	162	43% 40% 8% 9%
5	CE	162	2% 40% 43% 9% 9%
6	AF	101	56% 37% 6%
6	CF	101	52% 38% 9%
7	AG	156	43% 43% 44% 12%
7	CG	156	44% 37% 46% 17%
8	AH	138	49% 45% 6%
8	CH	138	4% 51% 43% 6%
9	AI	128	26% 38% 49% 11%
9	CI	128	51% 45% 42% 11%
10	AJ	105	30% 38% 40% 12% 9%
10	CJ	105	39% 37% 45% 10% 9%
11	AK	129	55% 26% 7% 12%
11	CK	129	4% 54% 29% 5% 12%
12	AL	132	55% 32% 6% 8%
12	CL	132	58% 30% 8%
13	AM	126	27% 39% 40% 11% 10%
13	CM	126	33% 43% 35% 10% 10%
14	AN	61	13% 43% 43% 13%
14	CN	61	13% 33% 49% 16%
15	AO	89	54% 35% 9%

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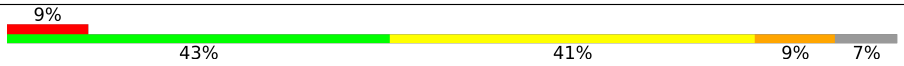
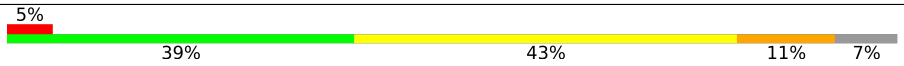
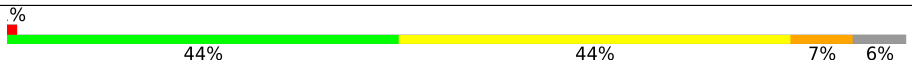
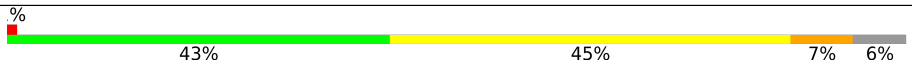
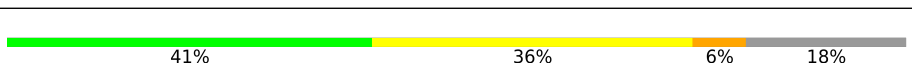
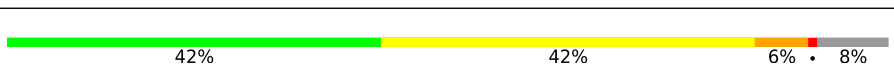
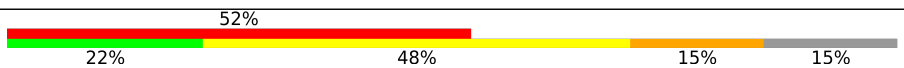
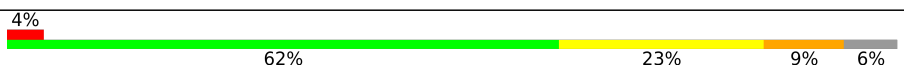
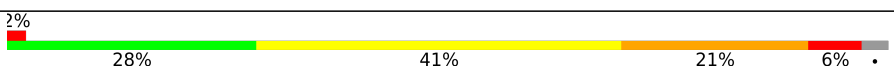
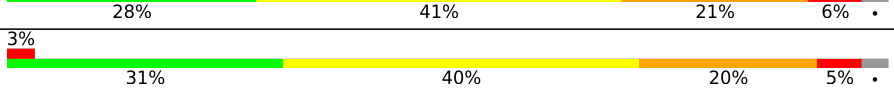
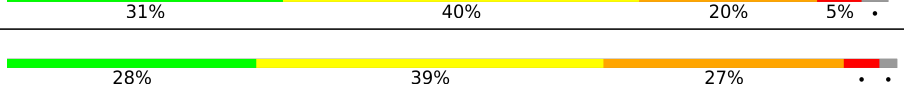
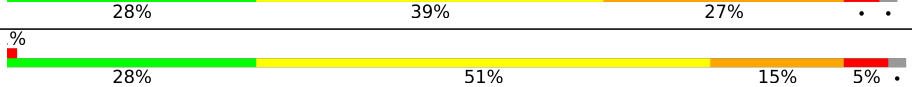
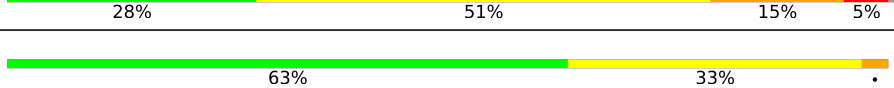
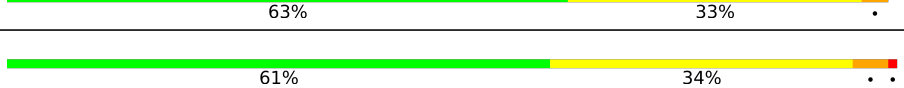
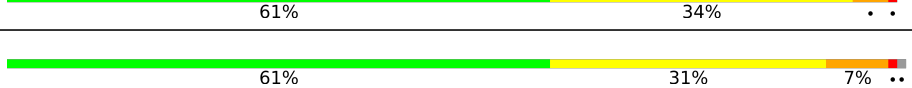
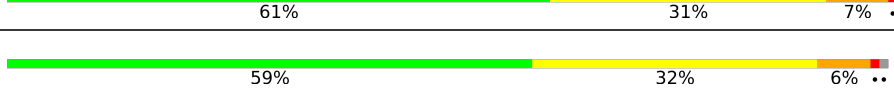
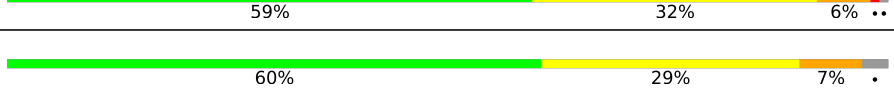
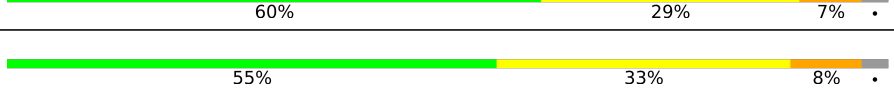
Mol	Chain	Length	Quality of chain
15	CO	89	
16	AP	88	
16	CP	88	
17	AQ	105	
17	CQ	105	
18	AR	88	
18	CR	88	
19	AS	93	
19	CS	93	
20	AT	106	
20	CT	106	
21	AU	27	
21	CU	27	
22	AX	101	
22	CX	101	
23	BA	2913	
23	DA	2913	
24	BB	122	
24	DB	122	
25	BD	276	
25	DD	276	
26	BE	206	
26	DE	206	
27	BF	210	
27	DF	210	

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Mol	Chain	Length	Quality of chain
28	BG	182	4% 46% 46% 8%
28	DG	182	14% 46% 48% 5%
29	BH	180	64% 29%
29	DH	180	4% 60% 33%
30	BI	148	% 48% 43% 7%
30	DI	148	% 57% 34% 7%
31	BN	140	59% 32% 9%
31	DN	140	% 56% 36% 9%
32	BO	122	65% 30%
32	DO	122	64% 30% 6%
33	BP	150	71% 21% 8%
33	DP	150	2% 67% 23% 9%
34	BQ	141	55% 38% 6%
34	DQ	141	51% 43% 6%
35	BR	118	58% 36% 6%
35	DR	118	53% 39% 8%
36	BS	112	49% 43% 6%
36	DS	112	4% 49% 42% 7%
37	BT	146	54% 30% 5% 10%
37	DT	146	% 53% 31% 5% 10%
38	BU	118	62% 32%
38	DU	118	62% 34%
39	BV	101	% 67% 24% 9%
39	DV	101	62% 29% 9%
40	BW	113	68% 27%

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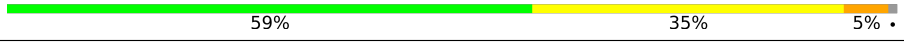
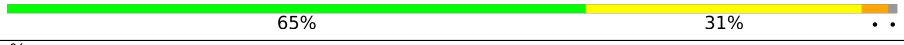
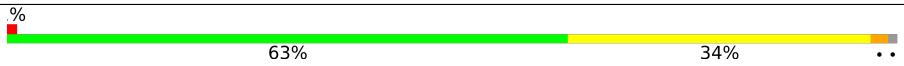
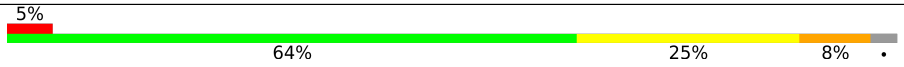
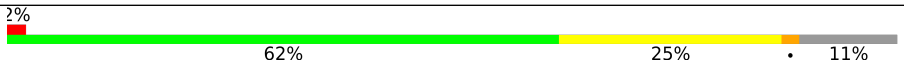
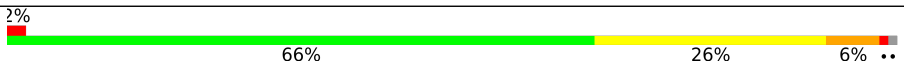
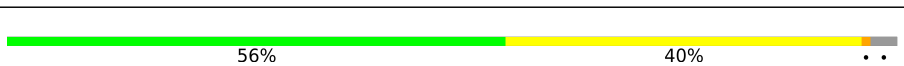
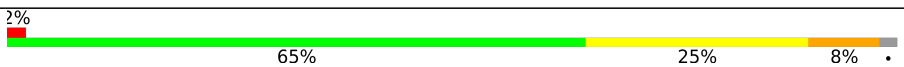
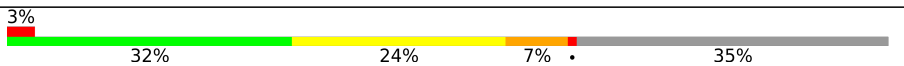
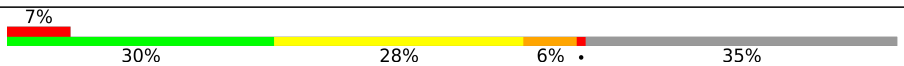
Mol	Chain	Length	Quality of chain
40	DW	113	
41	BX	96	
41	DX	96	
42	BY	110	
42	DY	110	
43	BZ	206	
43	DZ	206	
44	B0	85	
44	D0	85	
45	B1	98	
45	D1	98	
46	B2	72	
46	D2	72	
47	B3	60	
47	D3	60	
48	B4	71	
48	D4	71	
49	B5	60	
49	D5	60	
50	B6	54	
50	D6	54	
51	B7	49	
51	D7	49	
52	B8	65	
52	D8	65	

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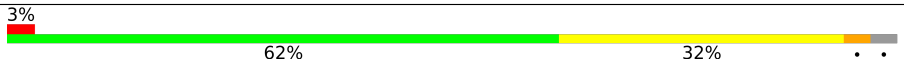
Mol	Chain	Length	Quality of chain
53	B9	37	
53	D9	37	

The following table lists non-polymeric compounds, carbohydrate monomers and non-standard residues in protein, DNA, RNA chains that are outliers for geometric or electron-density-fit criteria:

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
54	MG	AA	1614	-	-	-	X
54	MG	AA	1618	-	-	-	X
54	MG	AA	1659	-	-	-	X
54	MG	AA	1678	-	-	-	X
54	MG	AA	1692	-	-	-	X
54	MG	BA	3014	-	-	-	X
54	MG	BA	3097	-	-	-	X
54	MG	BA	3109	-	-	-	X
54	MG	BA	3146	-	-	-	X
54	MG	CA	1604	-	-	-	X
54	MG	CA	1633	-	-	-	X
54	MG	CA	1637	-	-	-	X
54	MG	CA	1652	-	-	-	X
54	MG	CA	1657	-	-	-	X
54	MG	CA	1660	-	-	-	X
54	MG	CA	1670	-	-	-	X
54	MG	CA	1692	-	-	-	X
54	MG	CE	201	-	-	-	X
54	MG	DA	3058	-	-	-	X
54	MG	DA	3081	-	-	-	X
54	MG	DA	3096	-	-	-	X
54	MG	DA	3115	-	-	-	X
54	MG	DA	3165	-	-	-	X
54	MG	DA	3239	-	-	-	X
54	MG	DA	3280	-	-	-	X
54	MG	DA	3290	-	-	-	X
54	MG	DB	204	-	-	-	X

2 Entry composition (i)

There are 56 unique types of molecules in this entry. The entry contains 286308 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
1	AA	1501	Total	C	N	O	P	0	0	0
			32270	14362	5983	10424	1501			
1	CA	1497	Total	C	N	O	P	0	0	0
			32185	14324	5968	10396	1497			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AB	230	Total	C	N	O	S	0	0	0
			1787	1141	319	322	5			
2	CB	229	Total	C	N	O	S	0	0	0
			1775	1132	318	320	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AC	206	Total	C	N	O	S	0	0	0
			1450	906	279	264	1			
3	CC	206	Total	C	N	O	S	0	0	0
			1450	906	279	264	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AD	208	Total	C	N	O	S	0	0	0
			1526	963	283	274	6			
4	CD	208	Total	C	N	O	S	0	0	0
			1526	963	283	274	6			

- 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
			1105	699	204	198	4			
5	CE	148	Total	C	N	O	S	0	0	0
			1105	699	204	198	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
			777	493	137	144	3			
6	CF	100	Total	C	N	O	S	0	0	0
			777	493	137	144	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
			1164	726	224	208	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1164	726	224	208	6			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1045	665	188	190	2			
8	CH	138	Total	C	N	O	S	0	0	0
			1045	665	188	190	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	125	Total	C	N	O	0	0	0
			852	533	163	156			
9	CI	125	Total	C	N	O	0	0	0
			852	533	163	156			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	AJ	96	Total	C	N	O	0	0	0
			663	410	132	121			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
10	CJ	96	Total	C	N	O	0	0	0
			663	410	132	121			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	114	Total	C	N	O	S	0	0	0
			828	516	155	154	3			
11	CK	114	Total	C	N	O	S	0	0	0
			828	516	155	154	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	122	Total	C	N	O	S	0	0	0
			905	567	178	159	1			
12	CL	122	Total	C	N	O	S	0	0	0
			905	567	178	159	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	114	Total	C	N	O	S	0	0	0
			804	497	164	142	1			
13	CM	114	Total	C	N	O	S	0	0	0
			804	497	164	142	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S	0	0	0
			478	303	99	72	4			
14	CN	60	Total	C	N	O	S	0	0	0
			478	303	99	72	4			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0	0
			724	453	143	126	2			
15	CO	88	Total	C	N	O	S	0	0	0
			724	453	143	126	2			

- 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
			651	416	123	111	1			
16	CP	82	Total	C	N	O	S	0	0	0
			651	416	123	111	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
			514	329	98	87			
18	CR	68	Total	C	N	O	0	0	0
			514	329	98	87			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	81	Total	C	N	O	S	0	0	0
			560	351	108	99	2			
19	CS	81	Total	C	N	O	S	0	0	0
			560	351	108	99	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	87	Total	C	N	O	S	0	0	0
			665	410	142	111	2			
20	CT	97	Total	C	N	O	S	0	0	0
			713	438	152	121	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 protein called Probable sigma(54) modulation protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AX	95	Total	C	N	O	S	0	0	0
			631	396	116	118	1			
22	CX	95	Total	C	N	O	S	0	0	0
			601	378	108	114	1			

There are 12 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AX	96	HIS	-	expression tag	UNP P0AFX0
AX	97	HIS	-	expression tag	UNP P0AFX0
AX	98	HIS	-	expression tag	UNP P0AFX0
AX	99	HIS	-	expression tag	UNP P0AFX0
AX	100	HIS	-	expression tag	UNP P0AFX0
AX	101	HIS	-	expression tag	UNP P0AFX0
CX	96	HIS	-	expression tag	UNP P0AFX0
CX	97	HIS	-	expression tag	UNP P0AFX0
CX	98	HIS	-	expression tag	UNP P0AFX0
CX	99	HIS	-	expression tag	UNP P0AFX0
CX	100	HIS	-	expression tag	UNP P0AFX0
CX	101	HIS	-	expression tag	UNP P0AFX0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	BA	2837	Total	C	N	O	P	0	0	0
			61112	27197	11440	19639	2836			
23	DA	2814	Total	C	N	O	P	0	0	0
			60621	26978	11351	19479	2813			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	?	-	U	deletion	GB AP008226.1
BA	?	-	U	deletion	GB AP008226.1
DA	?	-	U	deletion	GB AP008226.1

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Chain	Residue	Modelled	Actual	Comment	Reference
DA	?	-	U	deletion	GB AP008226.1

- Molecule 24 is a RNA chain called 5S Ribosomal RNA.

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

- Molecule 25 is a protein called 50S Ribosomal Protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BD	275	Total	C	N	O	S	0	0	0
			2135	1349	422	361	3			
25	DD	275	Total	C	N	O	S	0	0	0
			2136	1349	423	361	3			

- Molecule 26 is a protein called 50S Ribosomal Protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BE	204	Total	C	N	O	S	0	0	0
			1555	982	297	270	6			
26	DE	204	Total	C	N	O	S	0	0	0
			1555	982	297	270	6			

- Molecule 27 is a protein called 50S Ribosomal Protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BF	203	Total	C	N	O	S	0	0	1
			1580	1007	298	273	2			
27	DF	203	Total	C	N	O	S	0	0	1
			1580	1007	298	273	2			

- Molecule 28 is a protein called 50S Ribosomal Protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BG	181	Total	C	N	O	S	0	0	0
			1368	879	242	244	3			
28	DG	181	Total	C	N	O	S	0	0	0
			1368	879	242	244	3			

- Molecule 29 is a protein called 50S Ribosomal Protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BH	174	Total	C	N	O	S	0	0	0
			1317	837	243	236	1			
29	DH	174	Total	C	N	O	S	0	0	0
			1317	837	243	236	1			

- Molecule 30 is a protein called 50S Ribosomal Protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BI	146	Total	C	N	O	S	0	0	0
			1037	666	180	190	1			
30	DI	146	Total	C	N	O	S	0	0	0
			953	608	168	176	1			

- Molecule 31 is a protein called 50S Ribosomal Protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BN	140	Total	C	N	O	S	0	0	0
			1112	717	207	184	4			
31	DN	140	Total	C	N	O	S	0	0	0
			1112	717	207	184	4			

- Molecule 32 is a protein called 50S Ribosomal Protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BO	122	Total	C	N	O	S	0	0	0
			923	583	168	168	4			
32	DO	122	Total	C	N	O	S	0	0	0
			923	583	168	168	4			

- Molecule 33 is a protein called 50S Ribosomal Protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BP	149	Total	C	N	O	S	0	0	0
			1131	703	229	196	3			
33	DP	149	Total	C	N	O	S	0	0	0
			1131	703	229	196	3			

- Molecule 34 is a protein called 50S Ribosomal Protein L16.

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

- Molecule 35 is a protein called 50S Ribosomal Protein L17.

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

- Molecule 36 is a protein called 50S Ribosomal Protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	BS	110	Total	C	N	O	0	0	0
			865	544	172	149			
36	DS	110	Total	C	N	O	0	0	0
			865	544	172	149			

- Molecule 37 is a protein called 50S Ribosomal Protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BT	131	Total	C	N	O	S	0	0	0
			1063	666	213	183	1			
37	DT	131	Total	C	N	O	S	0	0	0
			1063	666	213	183	1			

- Molecule 38 is a protein called 50S Ribosomal Protein L20.

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

- Molecule 39 is a protein called 50S Ribosomal Protein L21.

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

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

- Molecule 40 is a protein called 50S Ribosomal Protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BW	112	Total	C	N	O	S	0	0	0
			881	554	172	153	2			
40	DW	112	Total	C	N	O	S	0	0	0
			881	554	172	153	2			

- Molecule 41 is a protein called 50S Ribosomal Protein L23.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BX	95	Total	C	N	O	S	0	0	0
			742	483	134	124	1			
41	DX	95	Total	C	N	O	S	0	0	0
			742	483	134	124	1			

- Molecule 42 is a protein called 50S Ribosomal Protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BY	107	Total	C	N	O	S	0	0	0
			785	503	145	131	6			
42	DY	107	Total	C	N	O	S	0	0	0
			785	503	145	131	6			

- Molecule 43 is a protein called 50S Ribosomal Protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BZ	201	Total	C	N	O	S	0	0	0
			1536	980	272	282	2			
43	DZ	198	Total	C	N	O	S	0	0	0
			1522	972	269	279	2			

- Molecule 44 is a protein called 50S Ribosomal Protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	B0	76	Total	C	N	O	S	0	0	0
			594	368	125	100	1			
44	D0	76	Total	C	N	O	S	0	0	0
			594	368	125	100	1			

- Molecule 45 is a protein called 50S Ribosomal Protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	B1	97	Total	C	N	O	S	0	0	0
			745	469	144	131	1			
45	D1	97	Total	C	N	O	S	0	0	0
			745	469	144	131	1			

- Molecule 46 is a protein called 50S Ribosomal Protein L29.

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

- Molecule 47 is a protein called 50S Ribosomal Protein L30.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
47	B3	59	Total	C	N	O	0	0	0
			458	293	87	78			
47	D3	59	Total	C	N	O	0	0	0
			458	293	87	78			

- Molecule 48 is a protein called 50S Ribosomal Protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B4	46	Total	C	N	O	S	0	0	0
			349	223	57	64	5			
48	D4	46	Total	C	N	O	S	0	0	0
			349	223	57	64	5			

- Molecule 49 is a protein called 50S Ribosomal Protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B5	59	Total	C	N	O	S	0	0	0
			455	286	90	74	5			
49	D5	59	Total	C	N	O	S	0	0	0
			455	286	90	74	5			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B6	53	Total	C	N	O	S	0	0	0
			449	278	90	77	4			
50	D6	53	Total	C	N	O	S	0	0	0
			449	278	90	77	4			

- Molecule 51 is a protein called 50S Ribosomal Protein L34.

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

- Molecule 52 is a protein called 50S Ribosomal Protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B8	64	Total	C	N	O	S	0	0	0
			509	326	99	82	2			
52	D8	64	Total	C	N	O	S	0	0	0
			509	326	99	82	2			

- Molecule 53 is a protein called 50S Ribosomal Protein L36.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B9	36	Total	C	N	O	S	0	0	0
			297	182	66	46	3			
53	D9	36	Total	C	N	O	S	0	0	0
			297	182	66	46	3			

- Molecule 54 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
54	AA	135	Total	Mg	0	0
			135	135		
54	AC	1	Total	Mg	0	0
			1	1		
54	AD	1	Total	Mg	0	0
			1	1		
54	AF	1	Total	Mg	0	0
			1	1		
54	AQ	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	BA	660	Total Mg 660 660	0	0
54	BB	23	Total Mg 23 23	0	0
54	BD	3	Total Mg 3 3	0	0
54	BE	5	Total Mg 5 5	0	0
54	BF	2	Total Mg 2 2	0	0
54	BG	1	Total Mg 1 1	0	0
54	BP	1	Total Mg 1 1	0	0
54	BQ	4	Total Mg 4 4	0	0
54	BR	1	Total Mg 1 1	0	0
54	BS	1	Total Mg 1 1	0	0
54	BT	2	Total Mg 2 2	0	0
54	BV	1	Total Mg 1 1	0	0
54	BW	2	Total Mg 2 2	0	0
54	BZ	1	Total Mg 1 1	0	0
54	B0	3	Total Mg 3 3	0	0
54	B1	1	Total Mg 1 1	0	0
54	B2	1	Total Mg 1 1	0	0
54	B3	1	Total Mg 1 1	0	0
54	B5	2	Total Mg 2 2	0	0
54	B8	2	Total Mg 2 2	0	0
54	B9	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
54	CA	162	Total Mg 162 162	0	0
54	CE	1	Total Mg 1 1	0	0
54	CQ	1	Total Mg 1 1	0	0
54	DA	598	Total Mg 598 598	0	0
54	DB	8	Total Mg 8 8	0	0
54	DD	2	Total Mg 2 2	0	0
54	DE	4	Total Mg 4 4	0	0
54	DF	1	Total Mg 1 1	0	0
54	DO	2	Total Mg 2 2	0	0
54	DP	1	Total Mg 1 1	0	0
54	DQ	2	Total Mg 2 2	0	0
54	DR	3	Total Mg 3 3	0	0
54	D0	2	Total Mg 2 2	0	0
54	D1	1	Total Mg 1 1	0	0
54	D5	1	Total Mg 1 1	0	0
54	D8	2	Total Mg 2 2	0	0

- Molecule 55 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
55	AD	1	Total Zn 1 1	0	0
55	AN	1	Total Zn 1 1	0	0
55	BY	1	Total Zn 1 1	0	0

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

- Molecule 56 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	AA	268	Total O 268 268	0	0
56	AE	1	Total O 1 1	0	0
56	AL	1	Total O 1 1	0	0
56	AO	1	Total O 1 1	0	0
56	AP	1	Total O 1 1	0	0
56	AT	1	Total O 1 1	0	0
56	AX	1	Total O 1 1	0	0
56	BA	1694	Total O 1694 1694	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	BB	57	Total O 57 57	0	0
56	BD	20	Total O 20 20	0	0
56	BE	11	Total O 11 11	0	0
56	BF	6	Total O 6 6	0	0
56	BH	1	Total O 1 1	0	0
56	BN	2	Total O 2 2	0	0
56	BO	2	Total O 2 2	0	0
56	BP	11	Total O 11 11	0	0
56	BQ	5	Total O 5 5	0	0
56	BR	6	Total O 6 6	0	0
56	BT	1	Total O 1 1	0	0
56	BU	3	Total O 3 3	0	0
56	BV	3	Total O 3 3	0	0
56	BW	3	Total O 3 3	0	0
56	BX	2	Total O 2 2	0	0
56	BY	4	Total O 4 4	0	0
56	B0	8	Total O 8 8	0	0
56	B1	2	Total O 2 2	0	0
56	B3	1	Total O 1 1	0	0
56	B5	3	Total O 3 3	0	0
56	B6	1	Total O 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	B7	5	Total O 5 5	0	0
56	B8	10	Total O 10 10	0	0
56	B9	1	Total O 1 1	0	0
56	CA	265	Total O 265 265	0	0
56	CC	1	Total O 1 1	0	0
56	CD	1	Total O 1 1	0	0
56	CE	2	Total O 2 2	0	0
56	CK	1	Total O 1 1	0	0
56	CL	2	Total O 2 2	0	0
56	CN	1	Total O 1 1	0	0
56	CP	1	Total O 1 1	0	0
56	CQ	1	Total O 1 1	0	0
56	CT	1	Total O 1 1	0	0
56	CX	1	Total O 1 1	0	0
56	DA	1174	Total O 1174 1174	0	0
56	DB	17	Total O 17 17	0	0
56	DD	8	Total O 8 8	0	0
56	DE	11	Total O 11 11	0	0
56	DF	7	Total O 7 7	0	0
56	DN	1	Total O 1 1	0	0
56	DO	5	Total O 5 5	0	0

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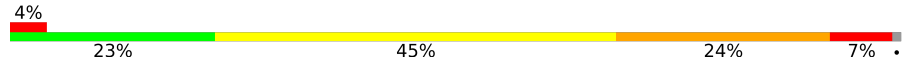
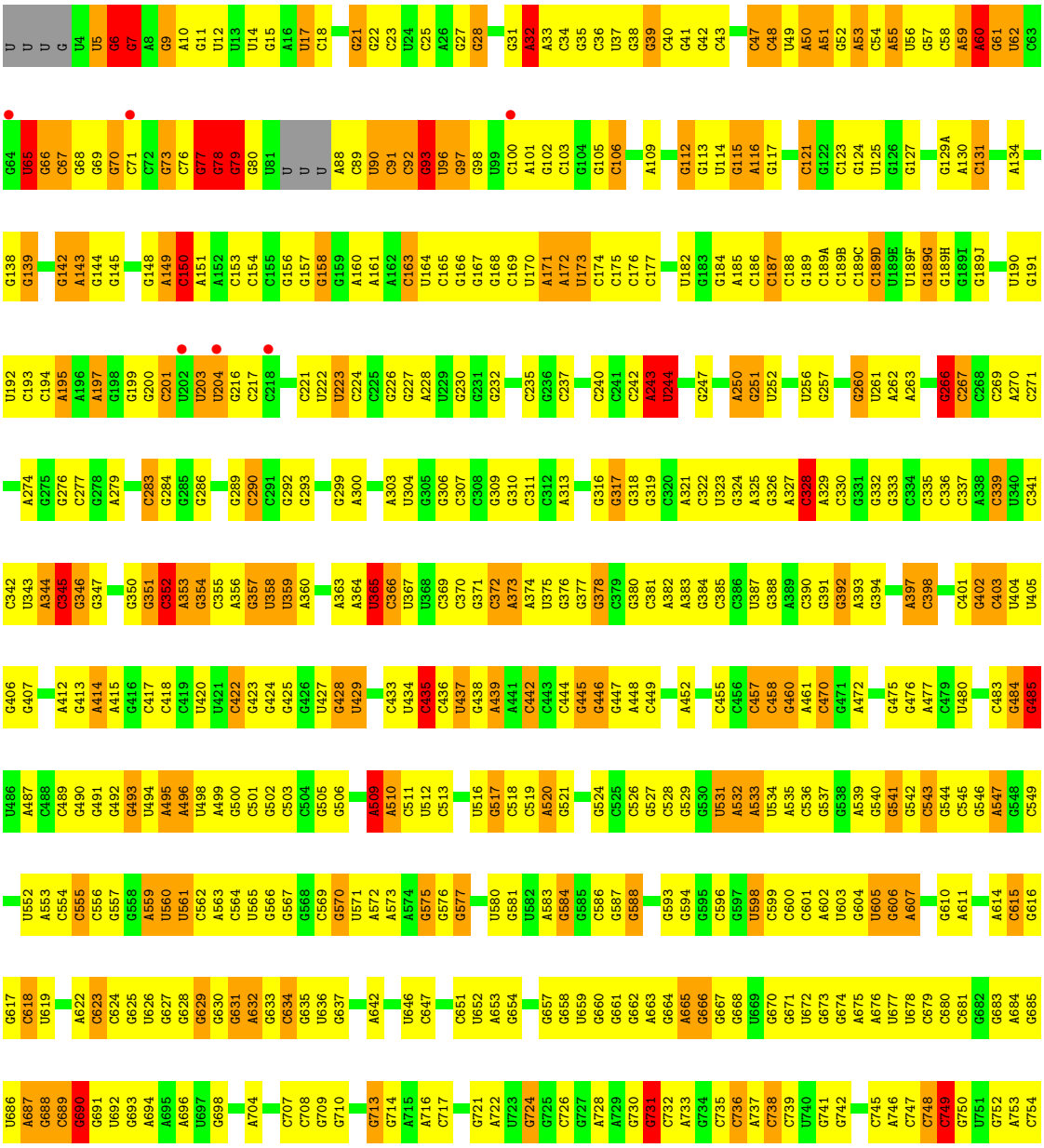
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	DP	10	Total O 10 10	0	0
56	DQ	3	Total O 3 3	0	0
56	DR	2	Total O 2 2	0	0
56	DT	2	Total O 2 2	0	0
56	DU	5	Total O 5 5	0	0
56	DV	2	Total O 2 2	0	0
56	DW	2	Total O 2 2	0	0
56	DX	1	Total O 1 1	0	0
56	DY	2	Total O 2 2	0	0
56	D0	1	Total O 1 1	0	0
56	D1	5	Total O 5 5	0	0
56	D3	1	Total O 1 1	0	0
56	D4	1	Total O 1 1	0	0
56	D7	3	Total O 3 3	0	0
56	D8	1	Total O 1 1	0	0

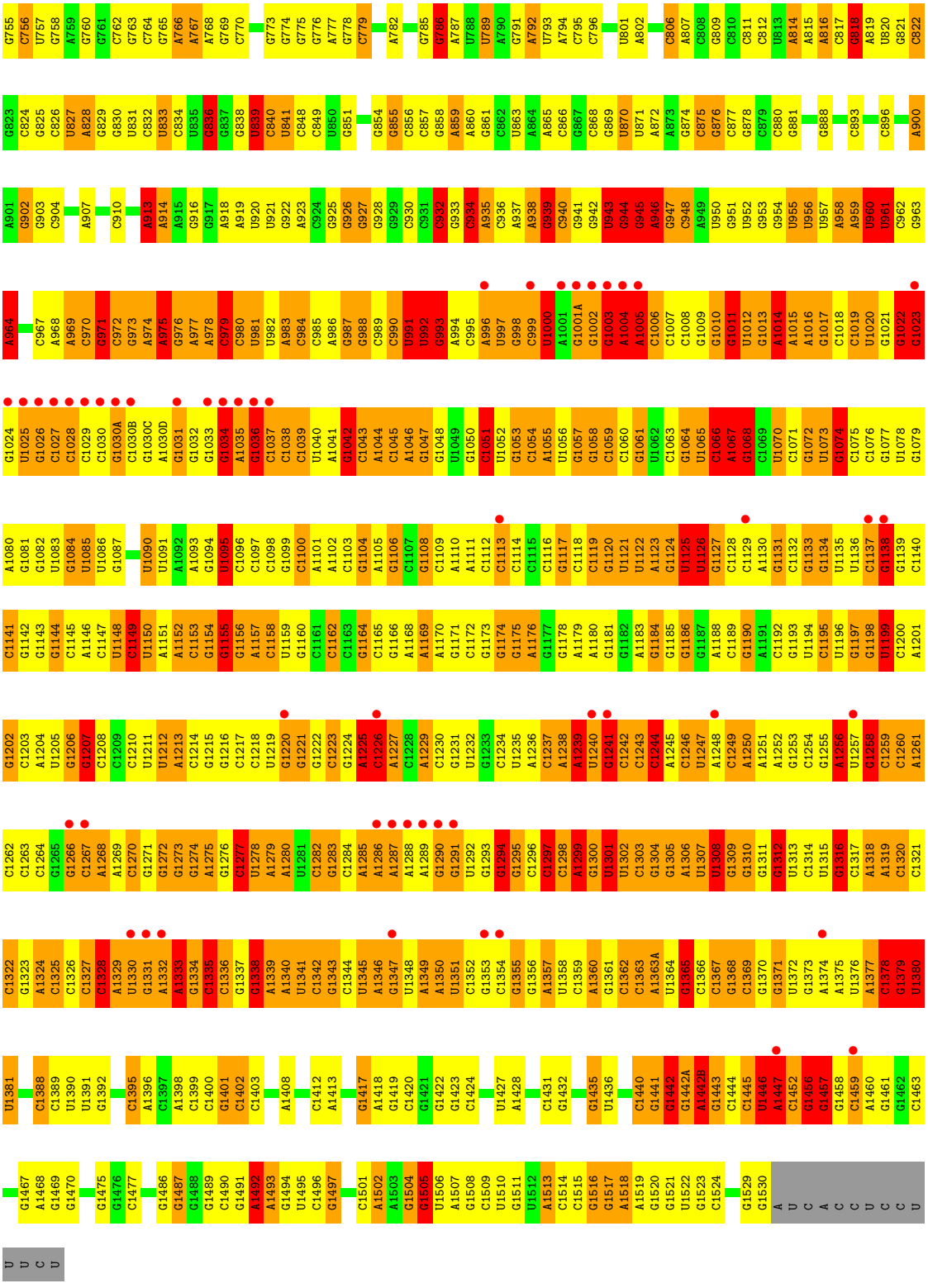
3 Residue-property plots (i)

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

- Molecule 1: 16S Ribosomal RNA

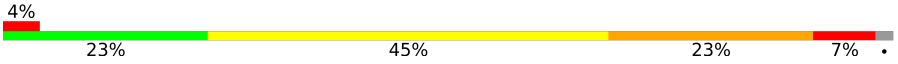
Chain AA: 

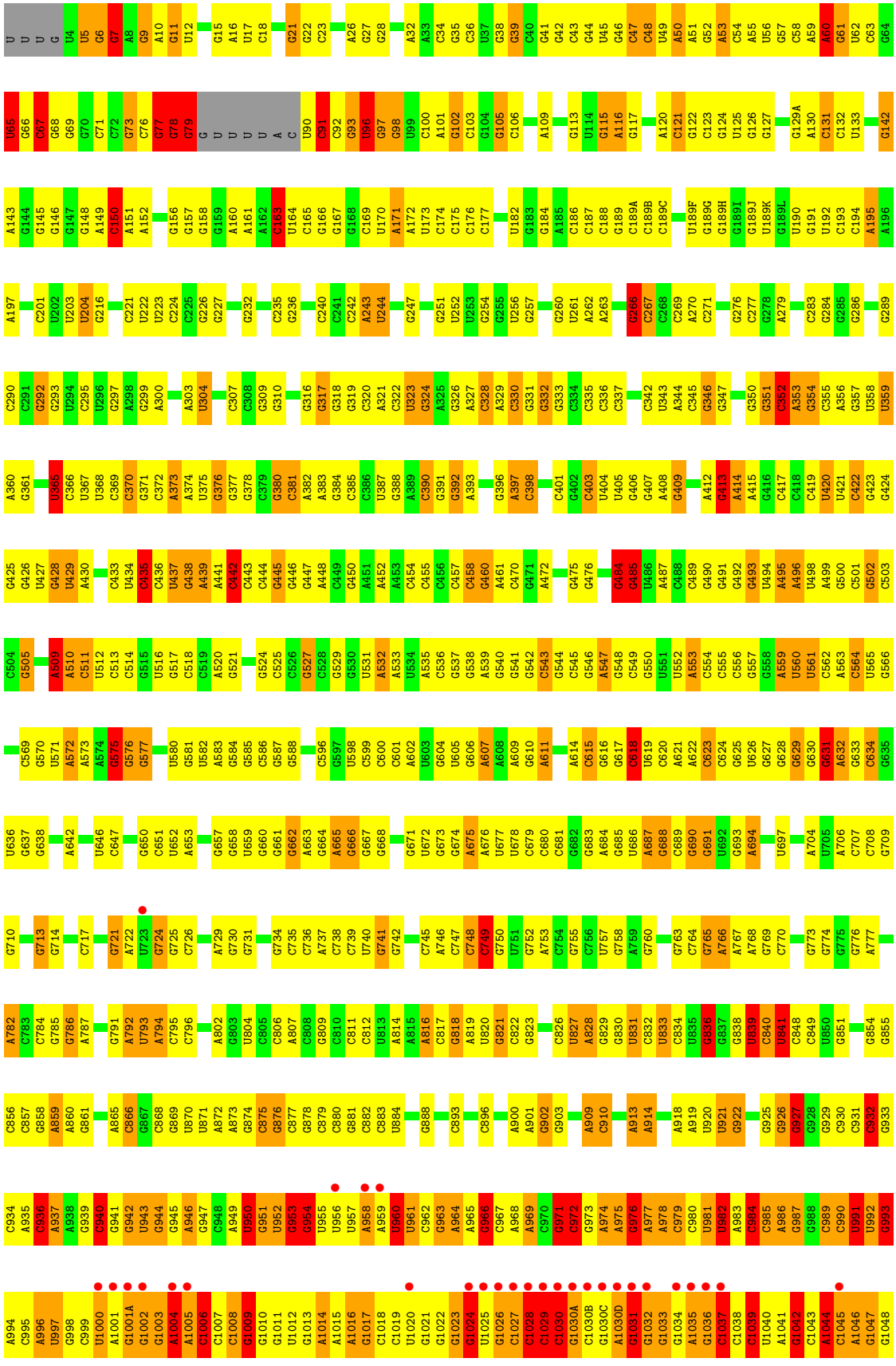


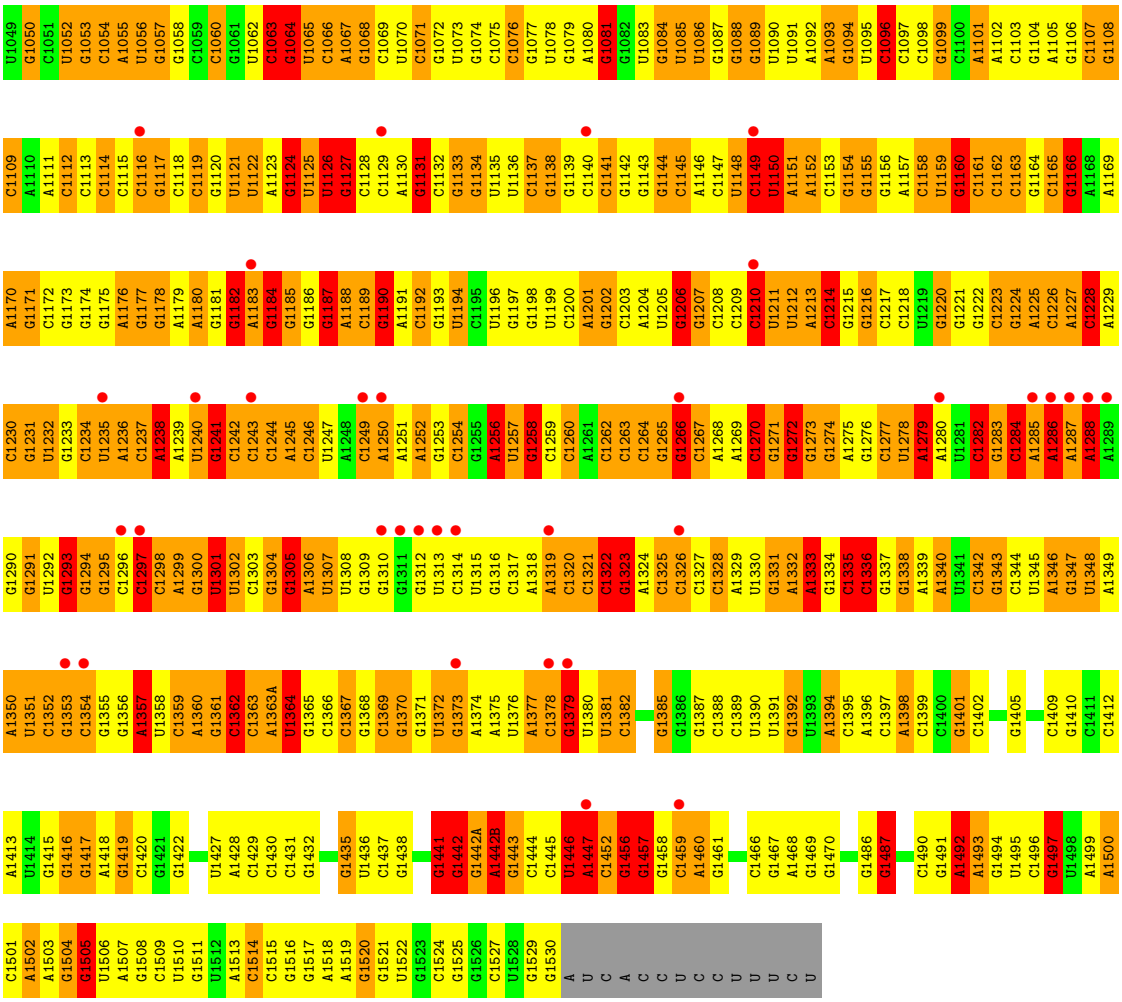


• Molecule 1: 16S Ribosomal RNA

Chain CA:







• Molecule 2: 30S Ribosomal Protein S2

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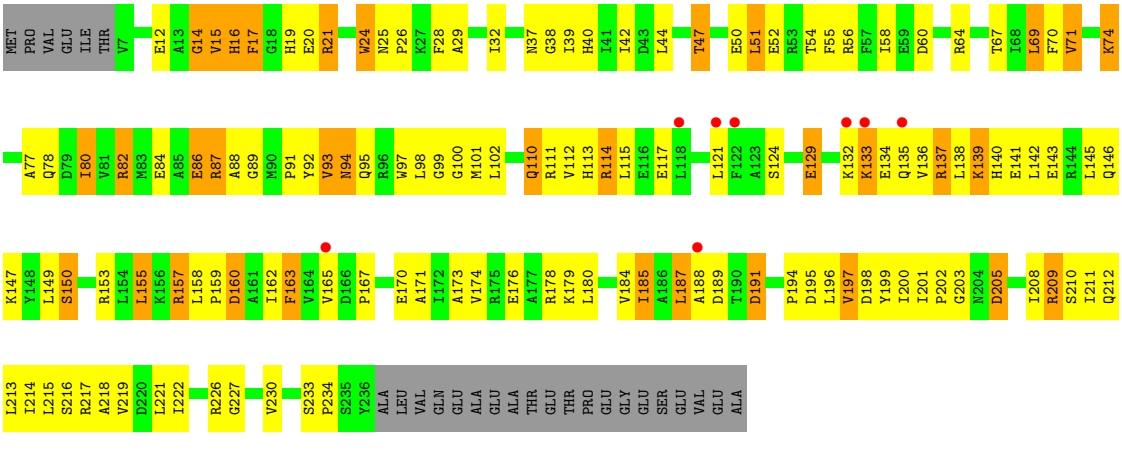
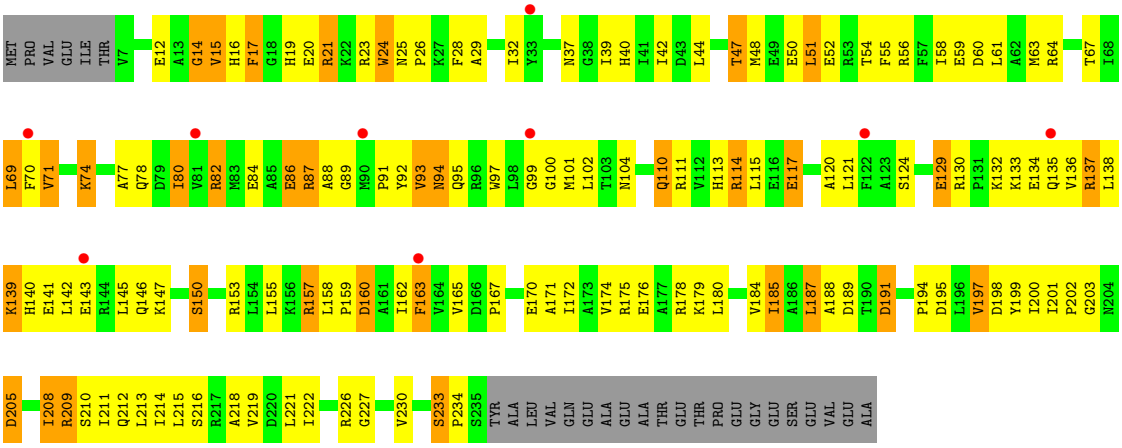


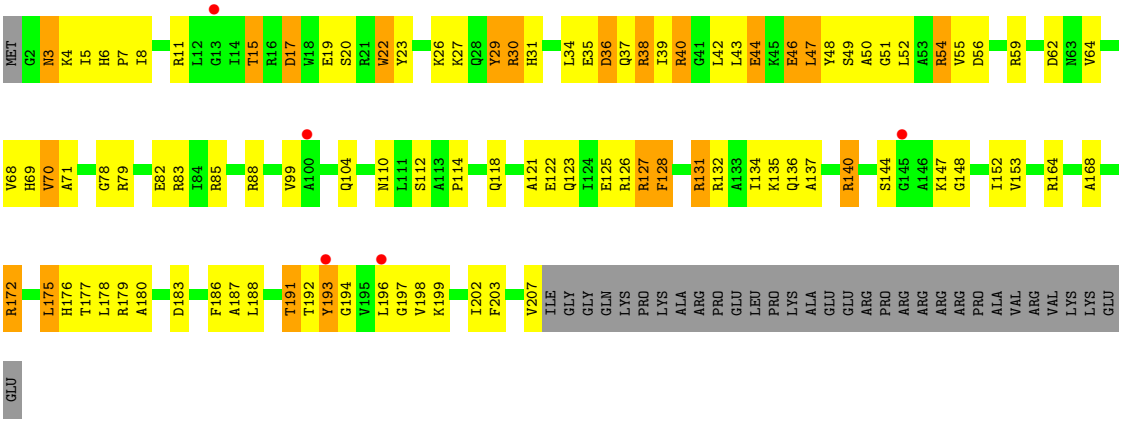
• Molecule 2: 30S Ribosomal Protein S2

Chain CB:



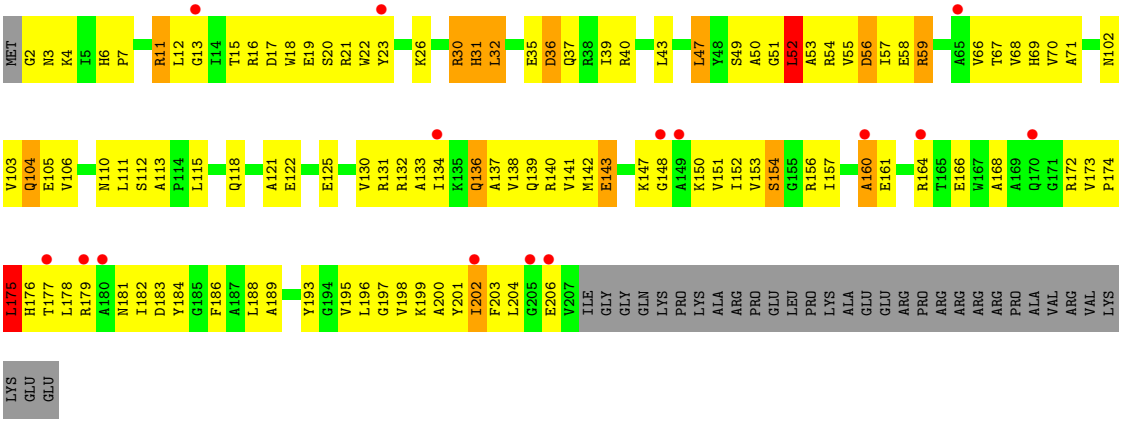
• Molecule 3: 30S Ribosomal Protein S3

Chain AC:



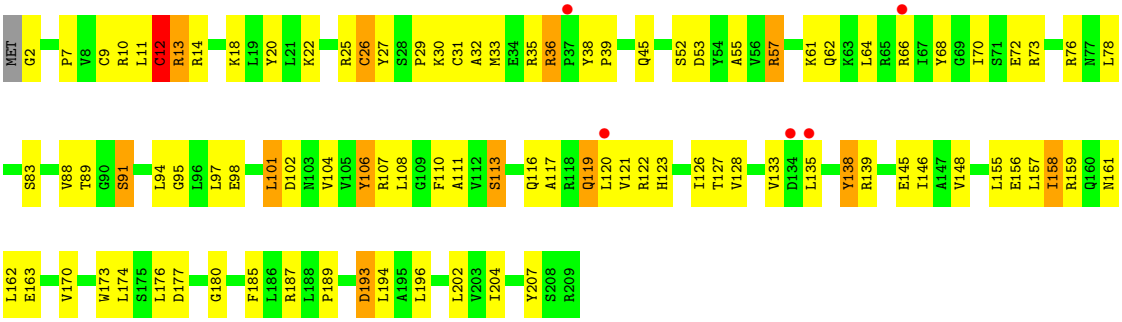
• Molecule 3: 30S Ribosomal Protein S3

Chain CC:



• Molecule 4: 30S Ribosomal Protein S4

Chain AD:



• Molecule 4: 30S Ribosomal Protein S4

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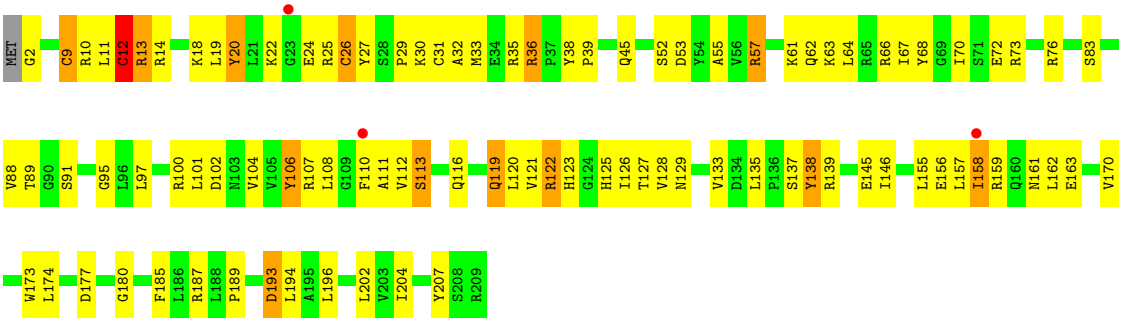

• Molecule 5: 30S Ribosomal Protein S5

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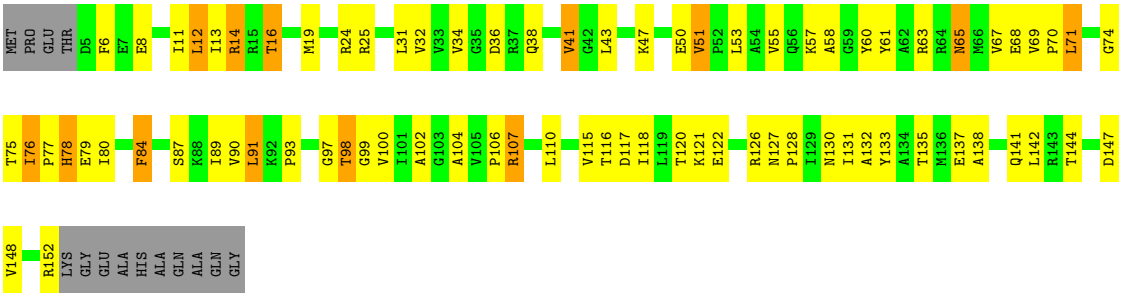

• Molecule 5: 30S Ribosomal Protein S5

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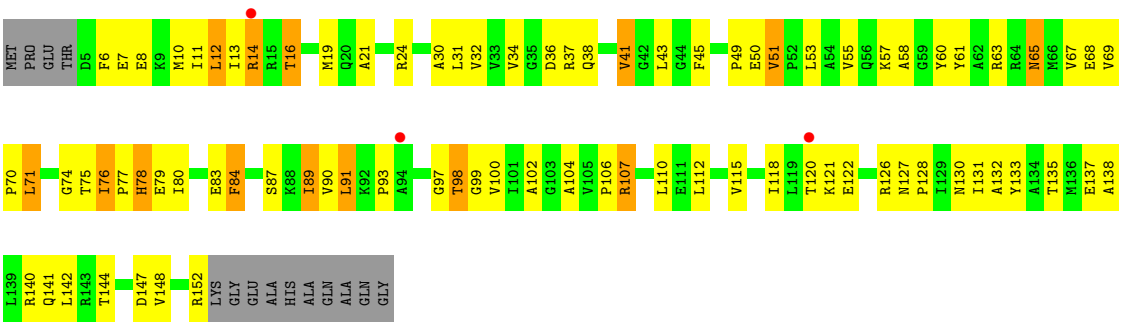

• Molecule 6: 30S Ribosomal Protein S6

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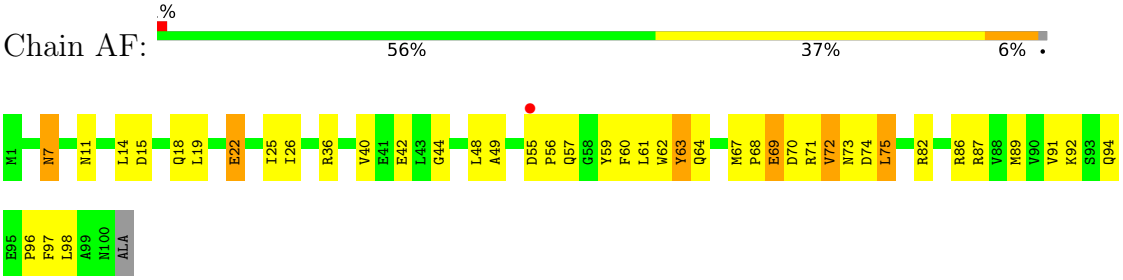
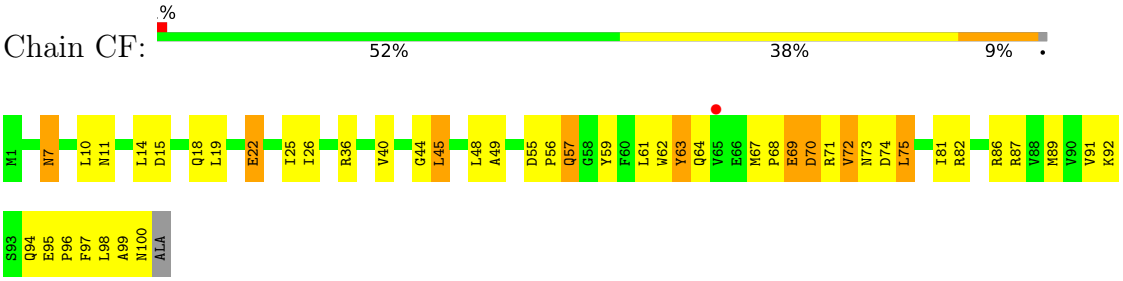


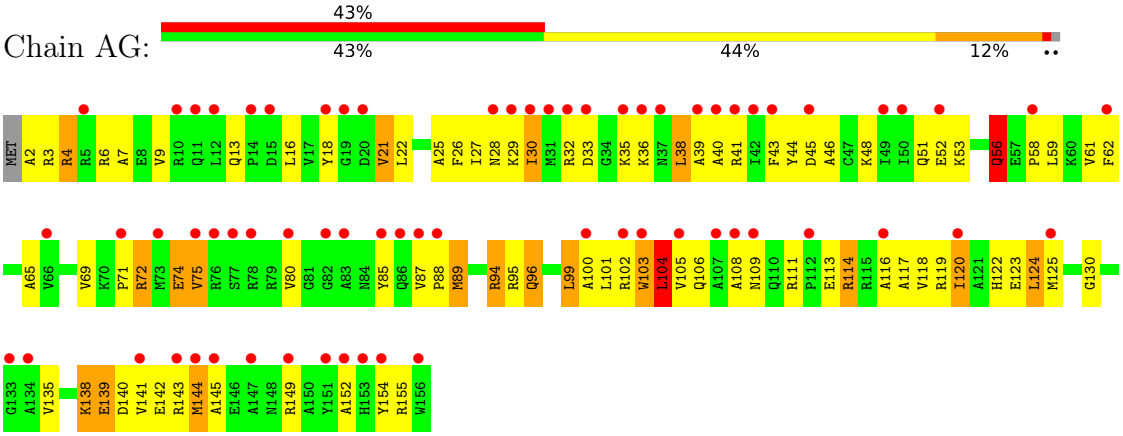
• Molecule 6: 30S Ribosomal Protein S6

Chain CF:



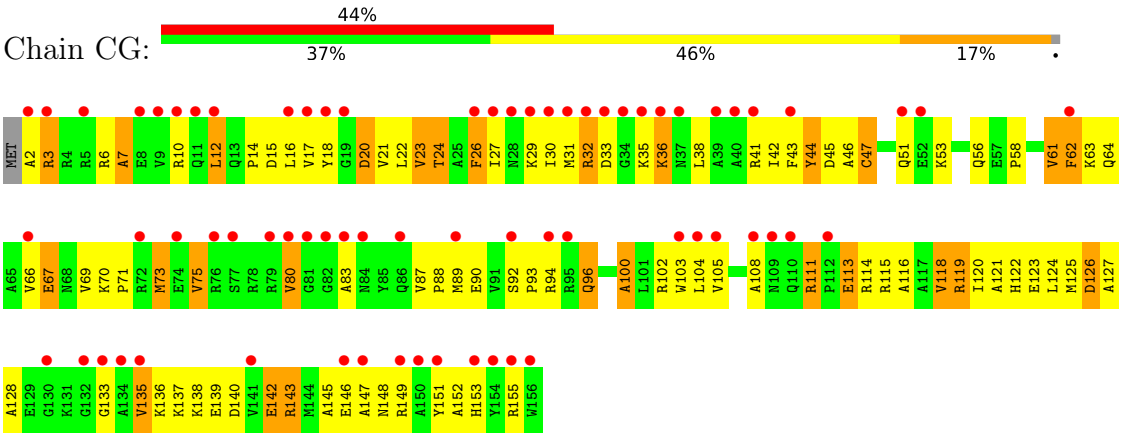
• Molecule 7: 30S Ribosomal Protein S7

Chain AG:



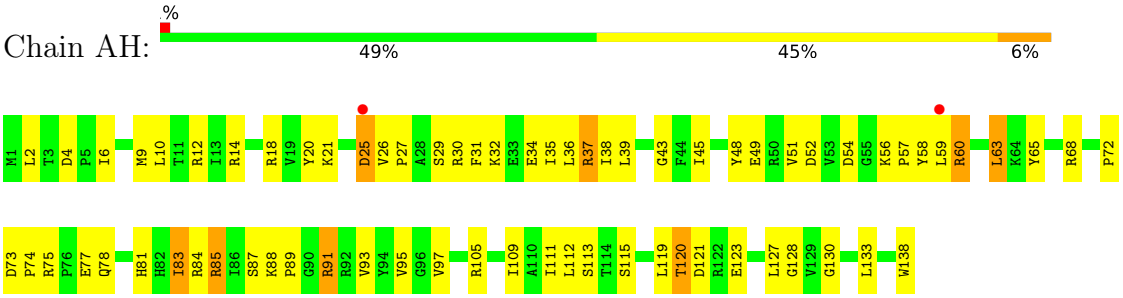
• Molecule 7: 30S Ribosomal Protein S7

Chain CG:



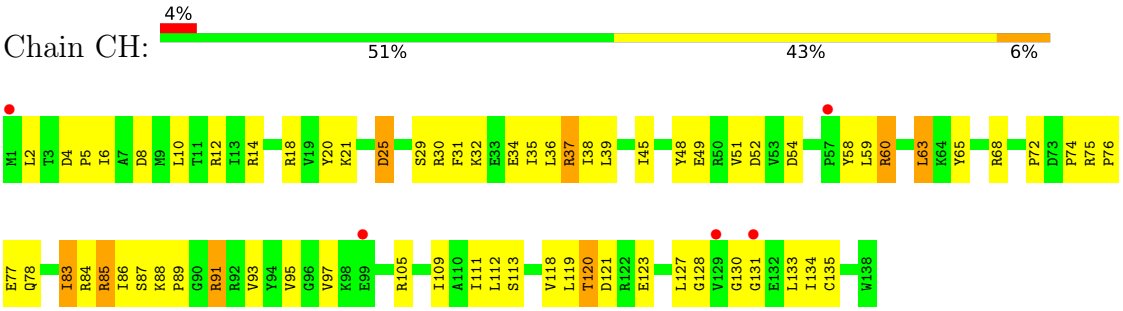
• Molecule 8: 30S Ribosomal Protein S8

Chain AH:



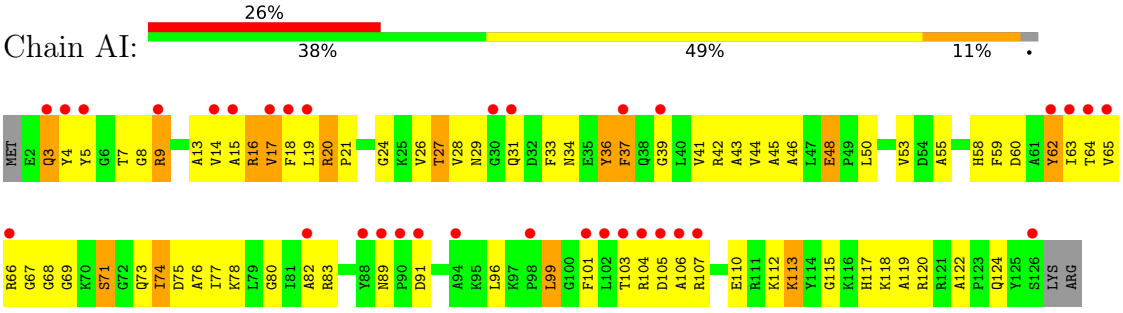
• Molecule 8: 30S Ribosomal Protein S8

Chain CH:



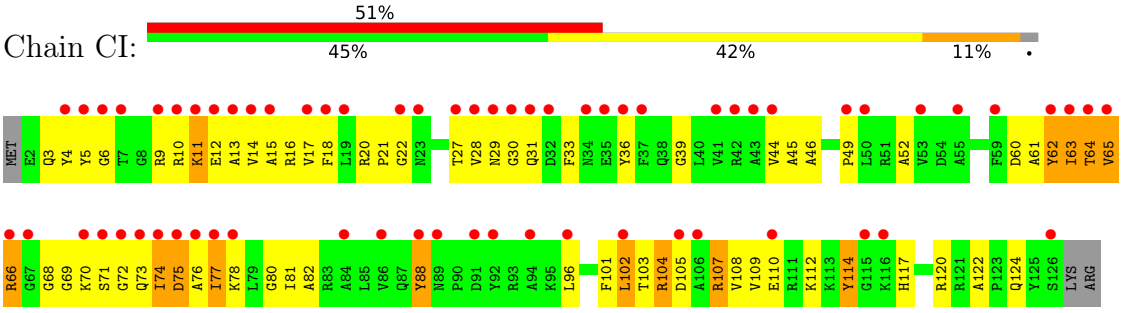
• Molecule 9: 30S Ribosomal Protein S9

Chain AI:



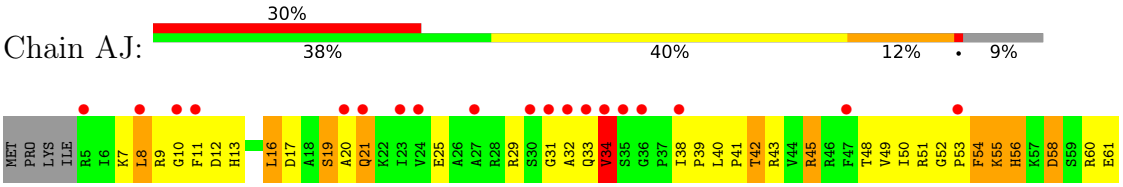
• Molecule 9: 30S Ribosomal Protein S9

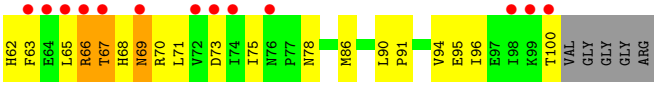
Chain CI:



• Molecule 10: 30S Ribosomal Protein S10

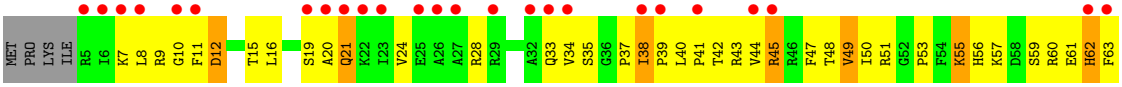
Chain AJ:

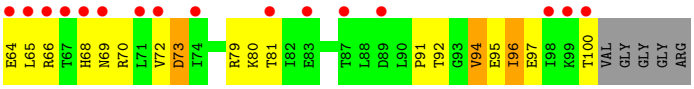




• Molecule 10: 30S Ribosomal Protein S10

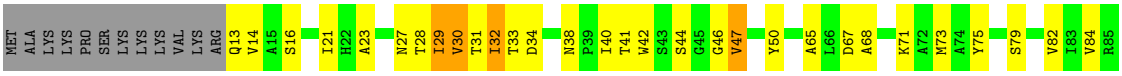
Chain CJ:

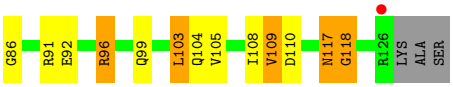




• Molecule 11: 30S Ribosomal Protein S11

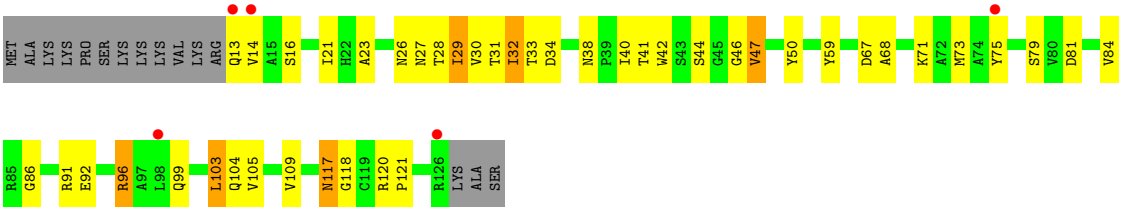
Chain AK:





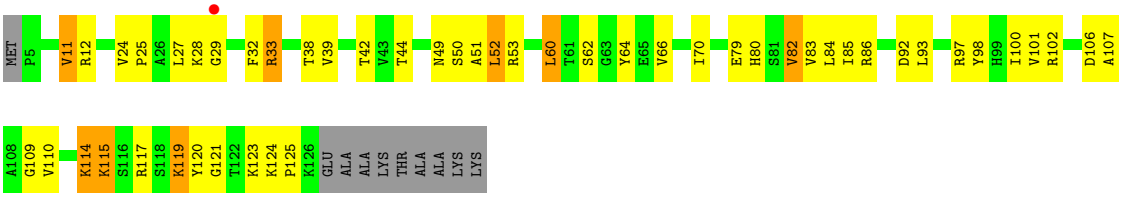
• Molecule 11: 30S Ribosomal Protein S11

Chain CK:



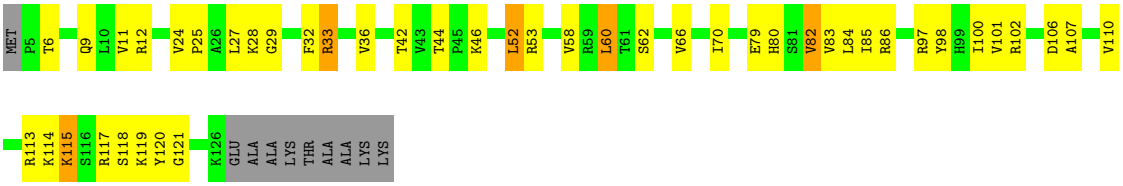
• Molecule 12: 30S Ribosomal Protein S12

Chain AL:



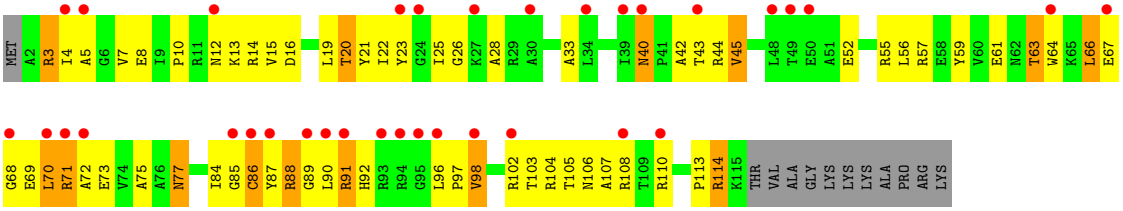
• Molecule 12: 30S Ribosomal Protein S12

Chain CL:



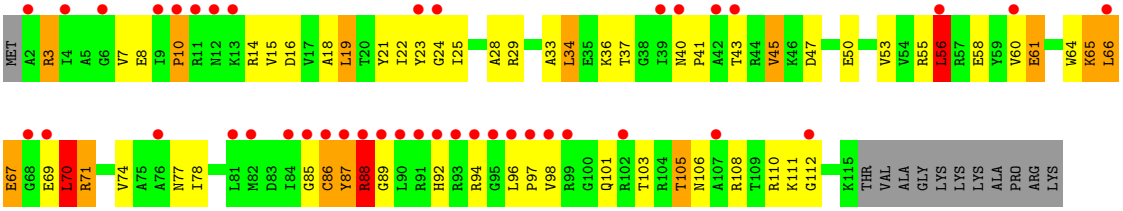
• Molecule 13: 30S Ribosomal Protein S13

Chain AM:



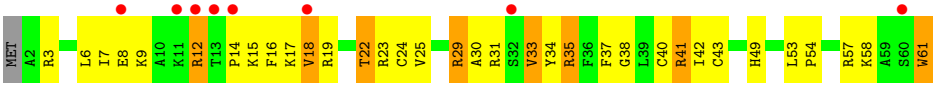
• Molecule 13: 30S Ribosomal Protein S13

Chain CM:



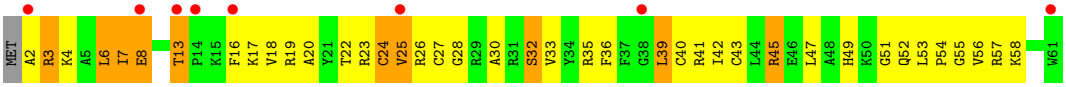
• Molecule 14: 30S Ribosomal Protein S14

Chain AN:



• Molecule 14: 30S Ribosomal Protein S14

Chain CN:

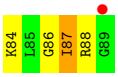


• Molecule 15: 30S Ribosomal Protein S15

Chain AO:

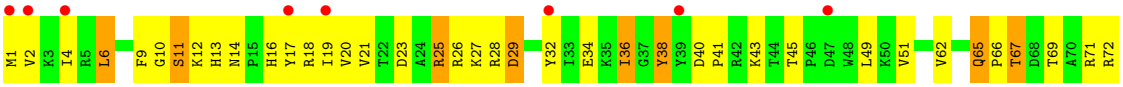
• Molecule 15: 30S Ribosomal Protein S15

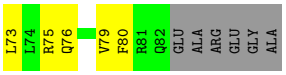
Chain CO:



• Molecule 16: 30S Ribosomal Protein S16

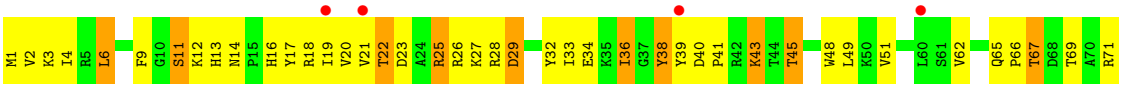
Chain AP:

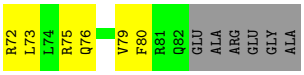




• Molecule 16: 30S Ribosomal Protein S16

Chain CP:





• Molecule 17: 30S Ribosomal Protein S17

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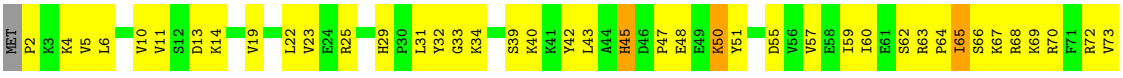
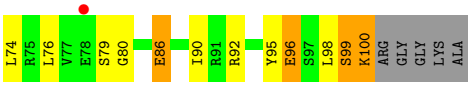
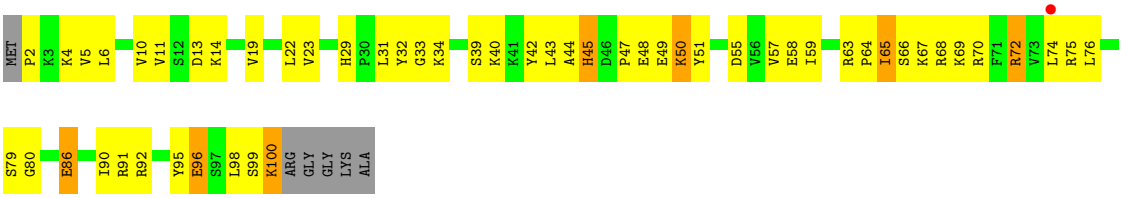




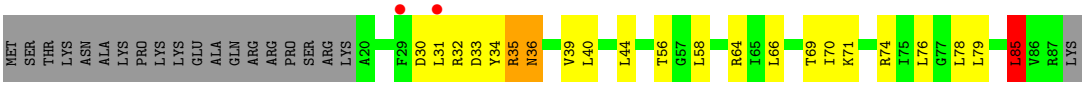
• Molecule 17: 30S Ribosomal Protein S17

Chain CQ:



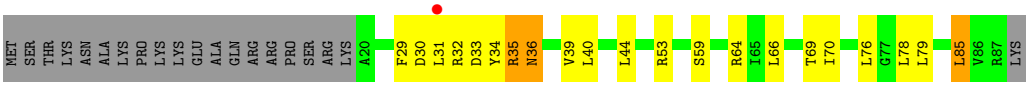
• Molecule 18: 30S Ribosomal Protein S18

Chain AR:



• Molecule 18: 30S Ribosomal Protein S18

Chain CR:



• Molecule 19: 30S Ribosomal Protein S19

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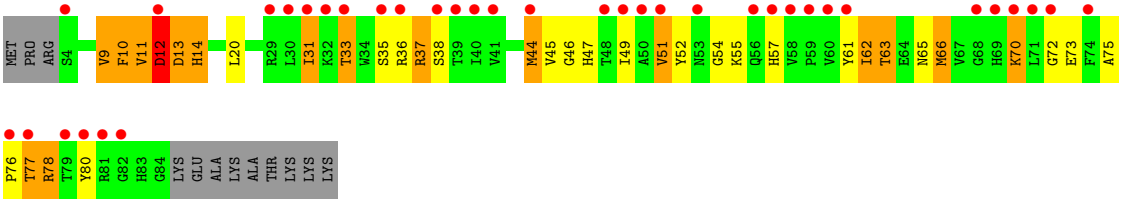

• Molecule 19: 30S Ribosomal Protein S19

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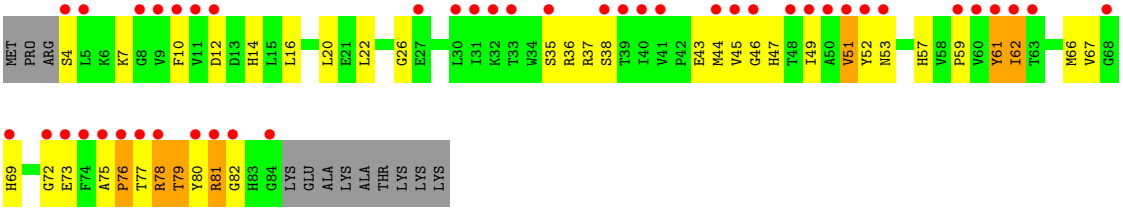
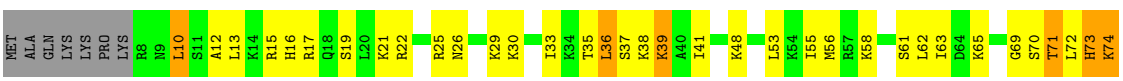
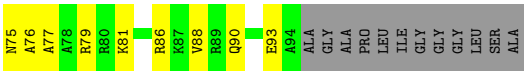


• Molecule 20: 30S Ribosomal Protein S20

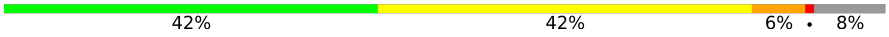
Chain AT:

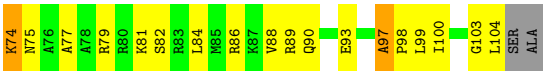




• Molecule 20: 30S Ribosomal Protein S20

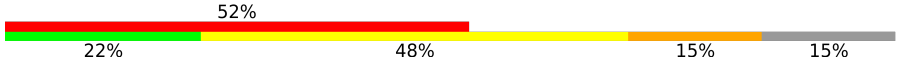
Chain CT:

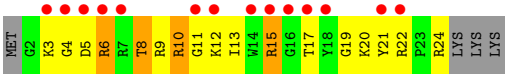




• Molecule 21: 30S Ribosomal Protein THX

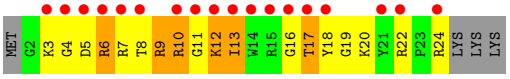
Chain AU:





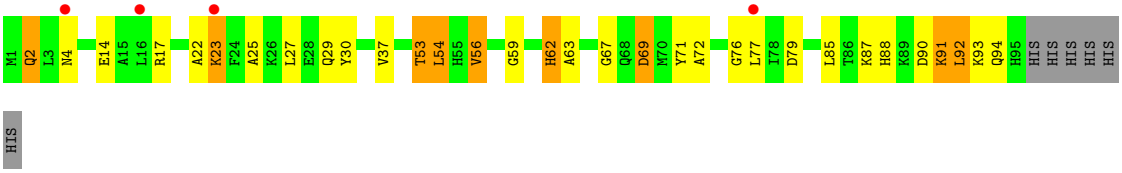
• Molecule 21: 30S Ribosomal Protein THX

Chain CU:



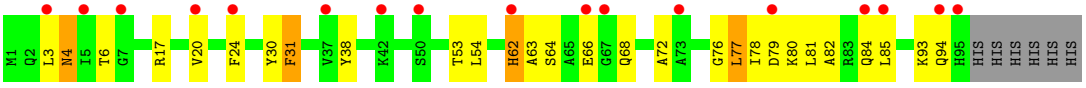
• Molecule 22: Probable sigma(54) modulation protein

Chain AX:



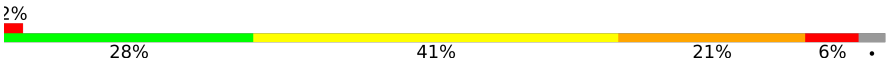
• Molecule 22: Probable sigma(54) modulation protein

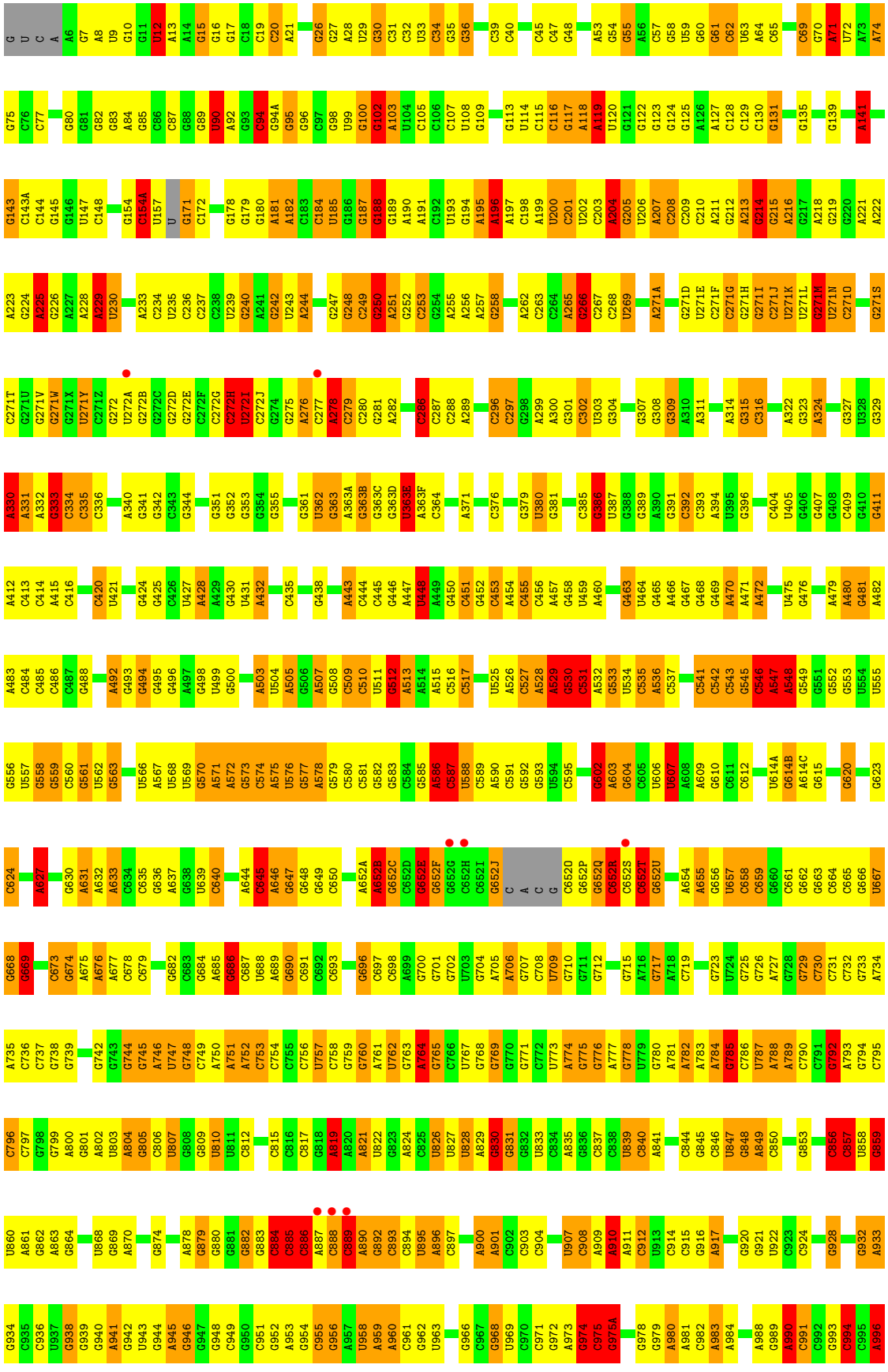
Chain CX:

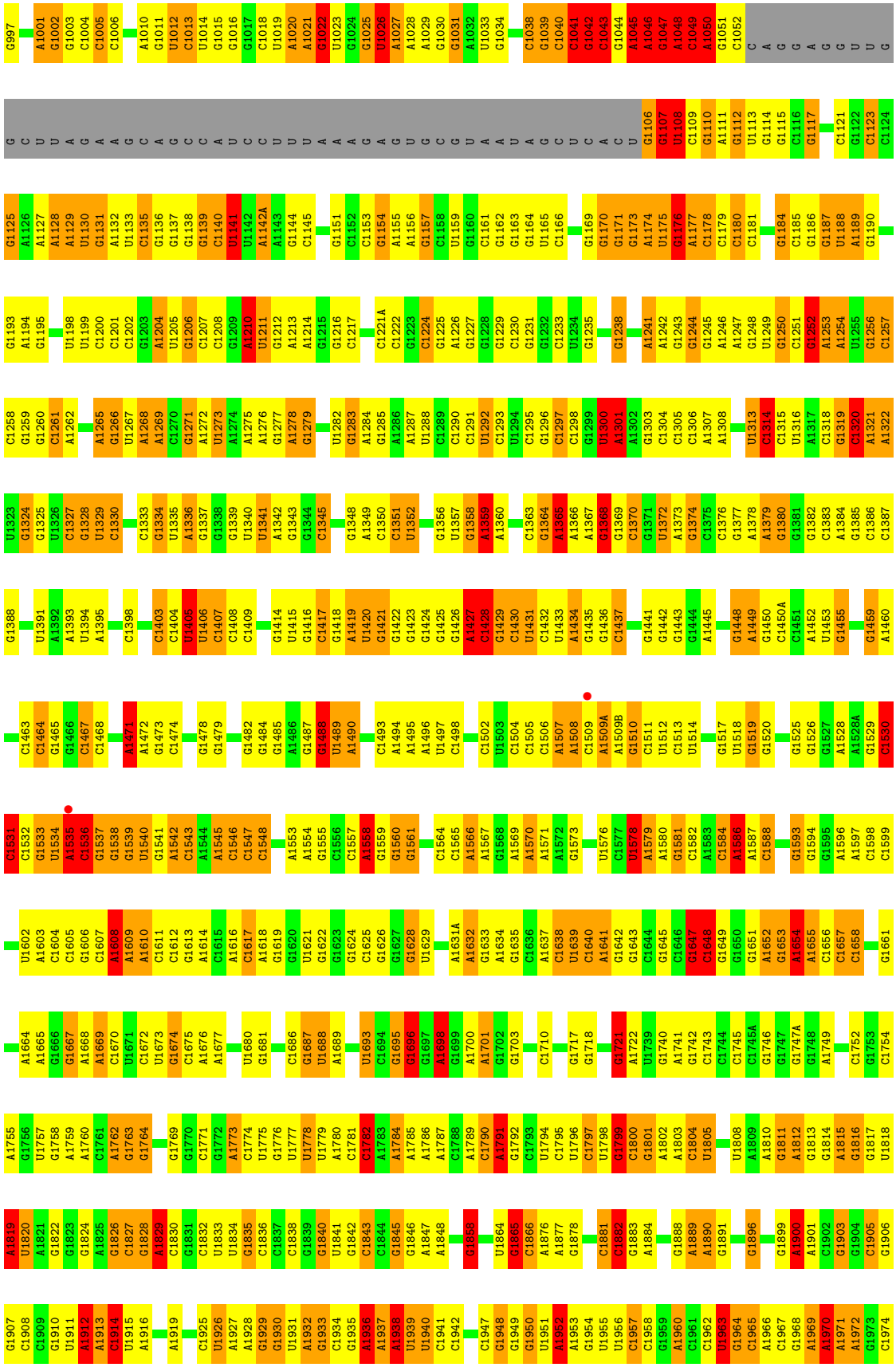


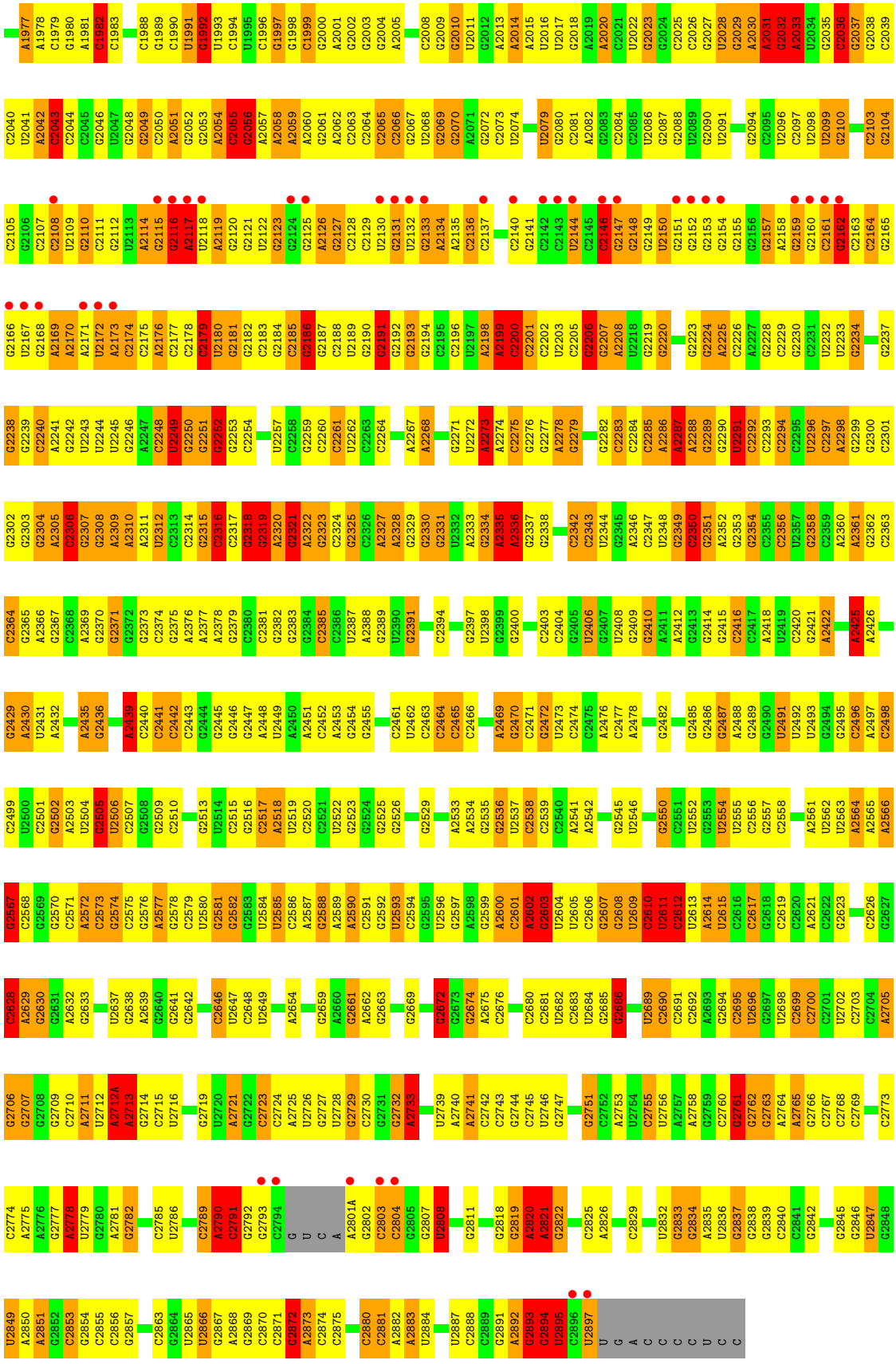
• Molecule 23: 23S Ribosomal RNA

Chain BA:



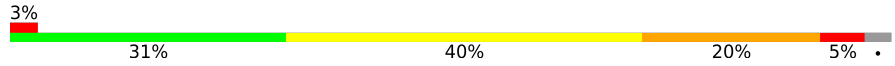


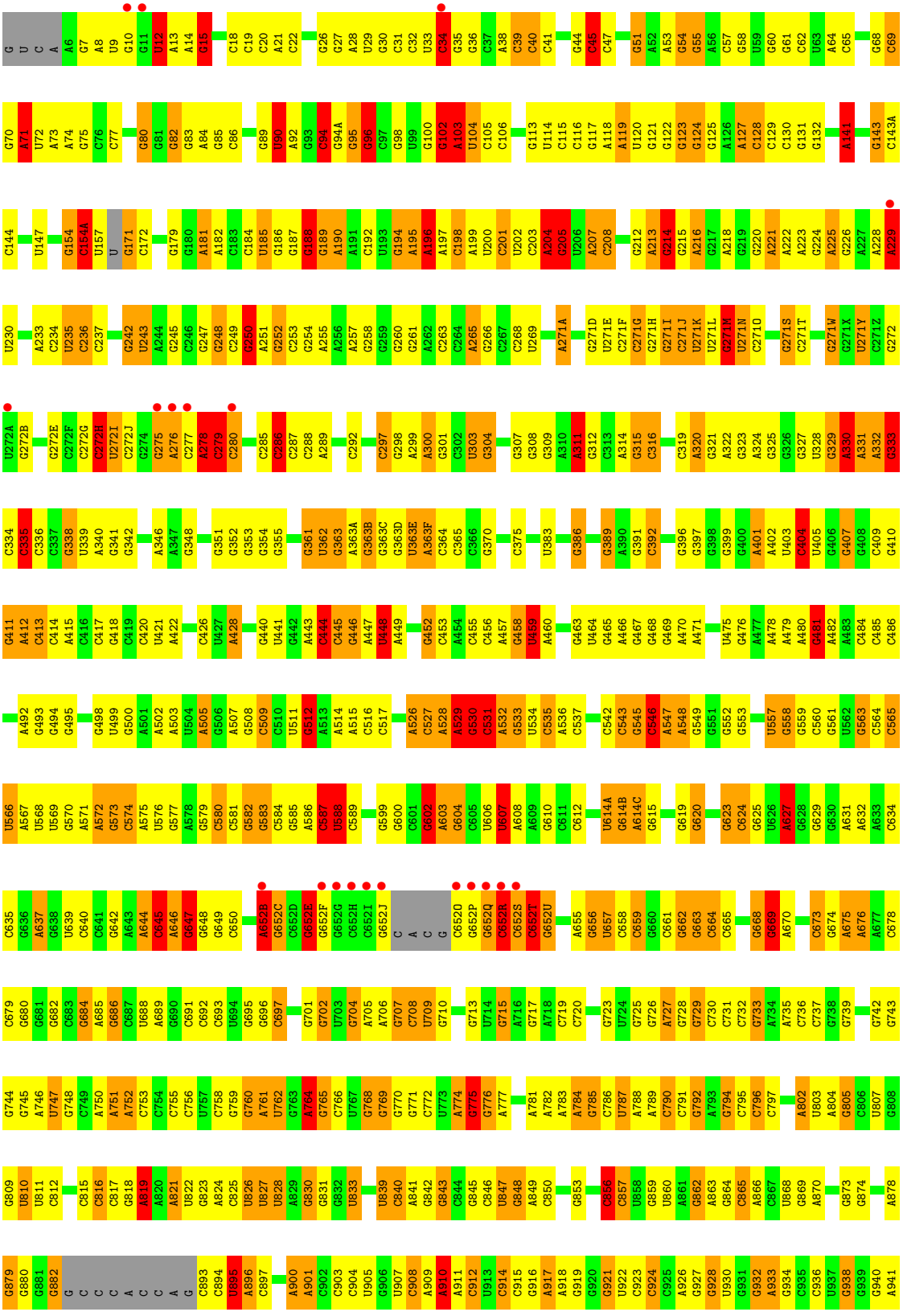


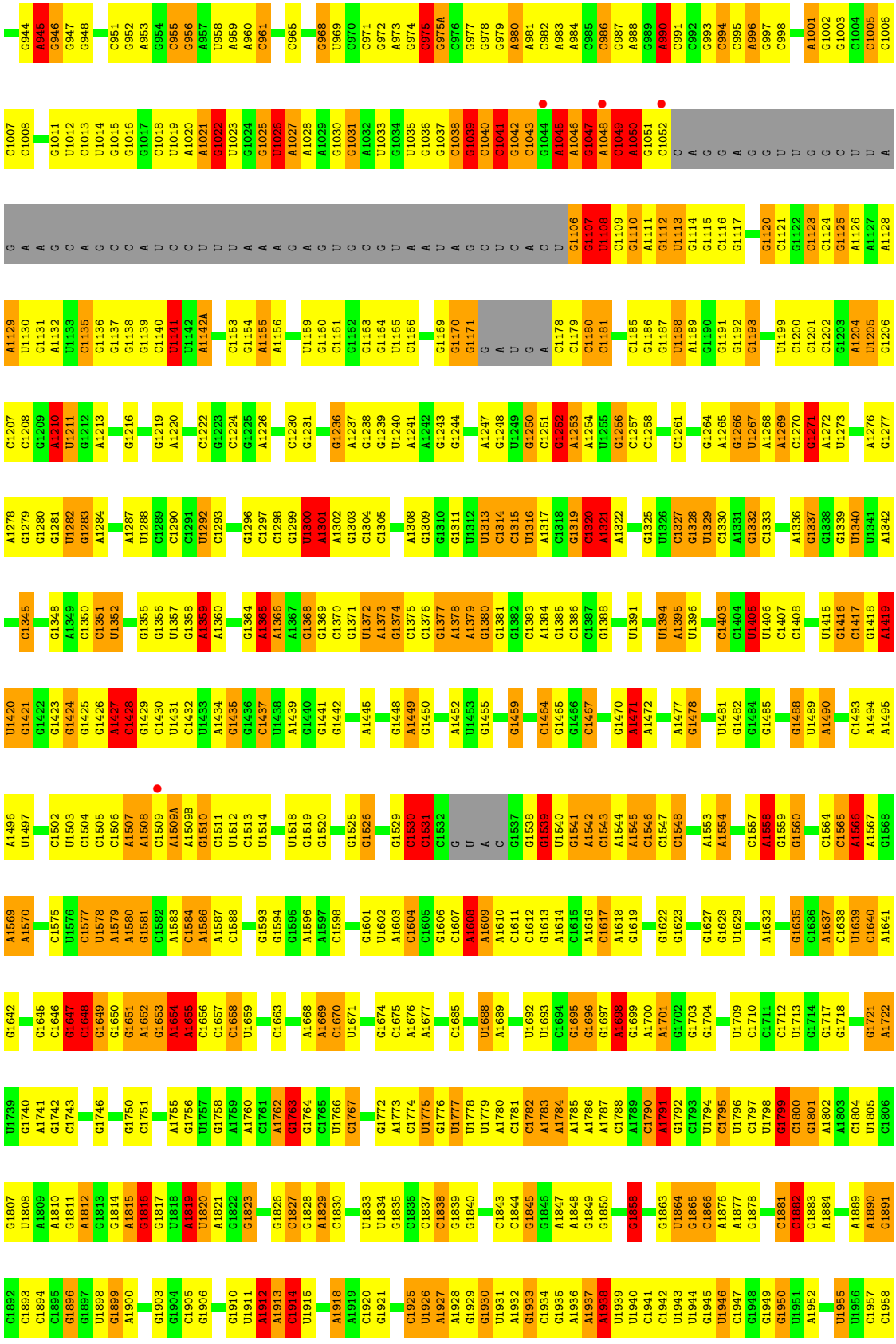


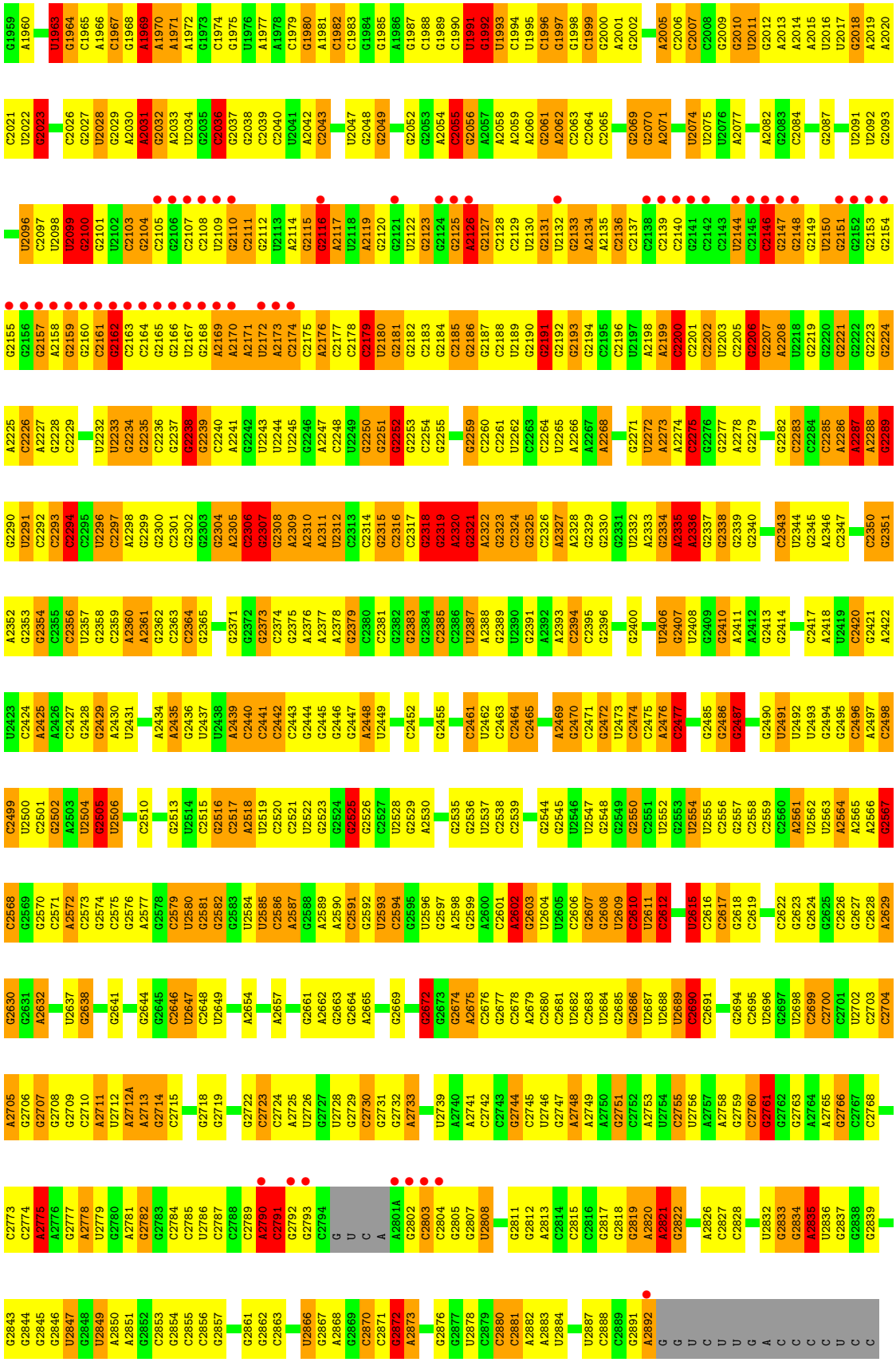
• Molecule 23: 23S Ribosomal RNA

Chain DA:



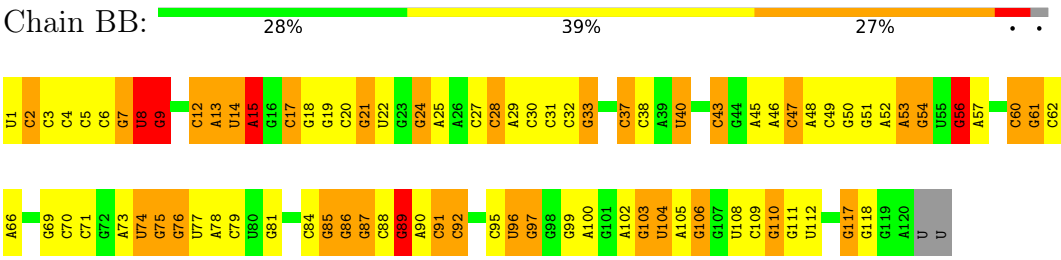






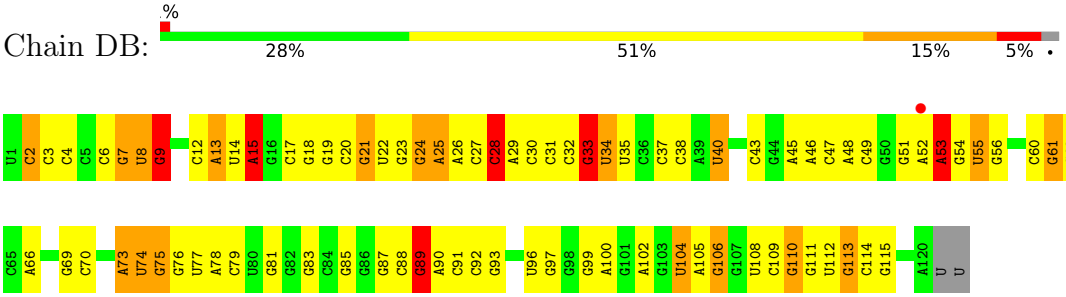
• Molecule 24: 5S Ribosomal RNA

Chain BB:



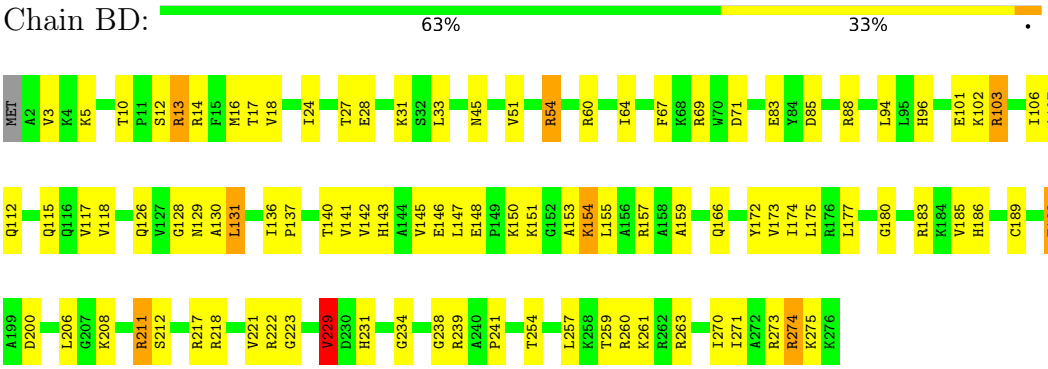
• Molecule 24: 5S Ribosomal RNA

Chain DB:



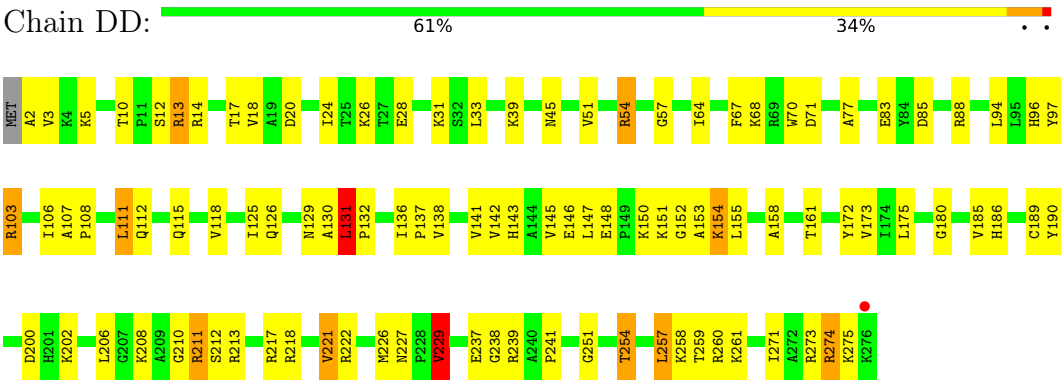
• Molecule 25: 50S Ribosomal Protein L2

Chain BD:



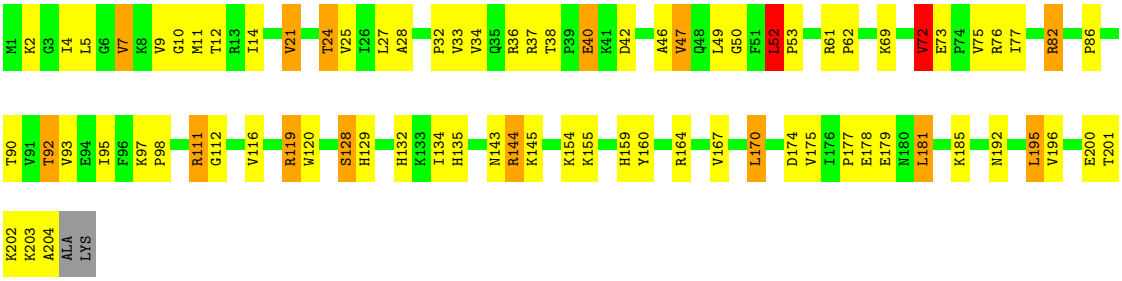
• Molecule 25: 50S Ribosomal Protein L2

Chain DD:



• Molecule 26: 50S Ribosomal Protein L3

Chain BE:

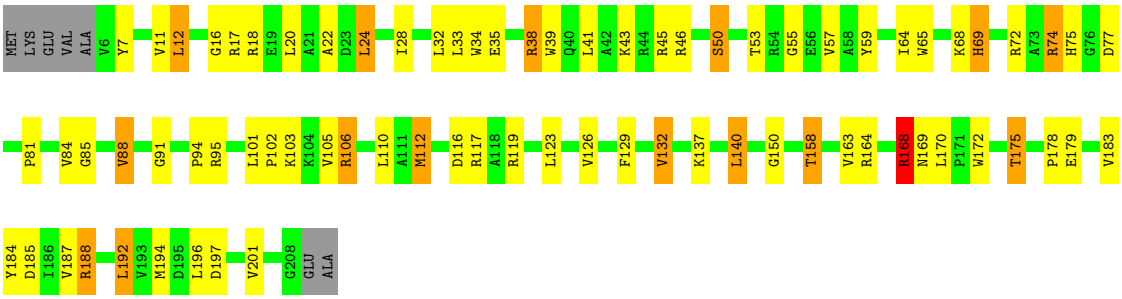


• Molecule 26: 50S Ribosomal Protein L3

Chain DE:

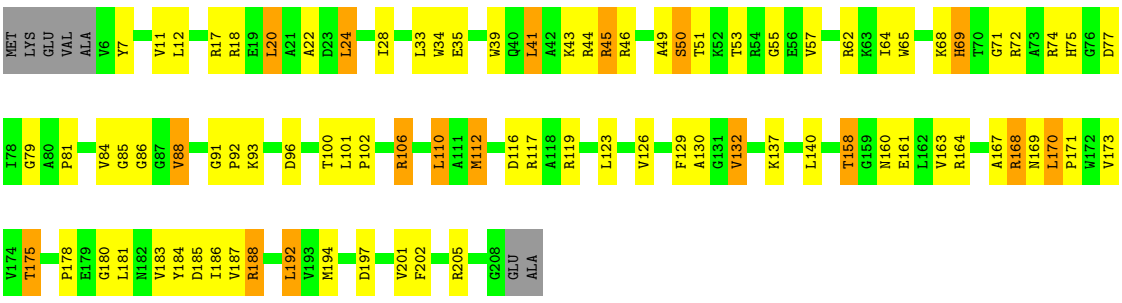
• Molecule 27: 50S Ribosomal Protein L4

Chain BF:



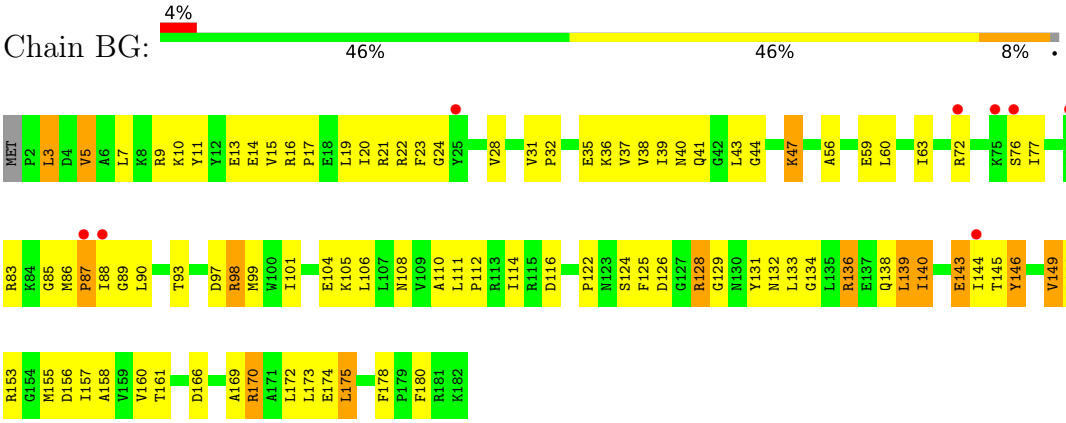
• Molecule 27: 50S Ribosomal Protein L4

Chain DF:



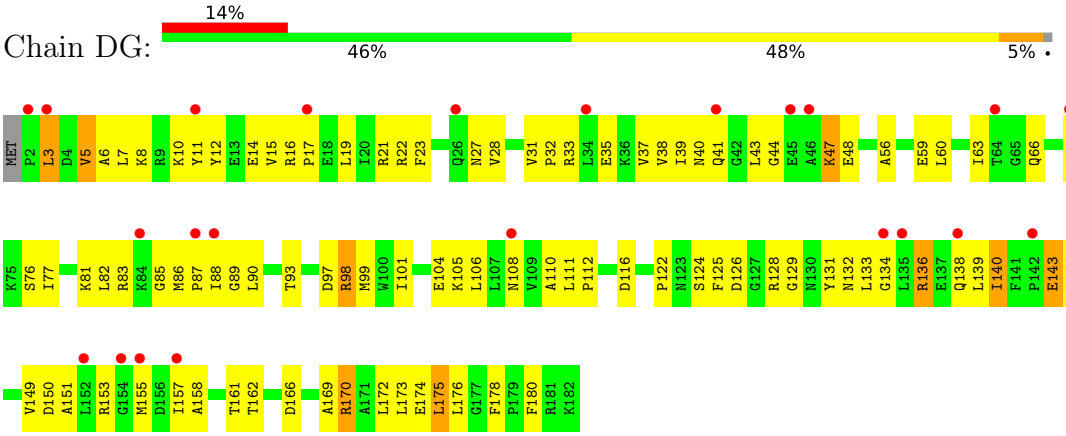
• Molecule 28: 50S Ribosomal Protein L5

Chain BG:



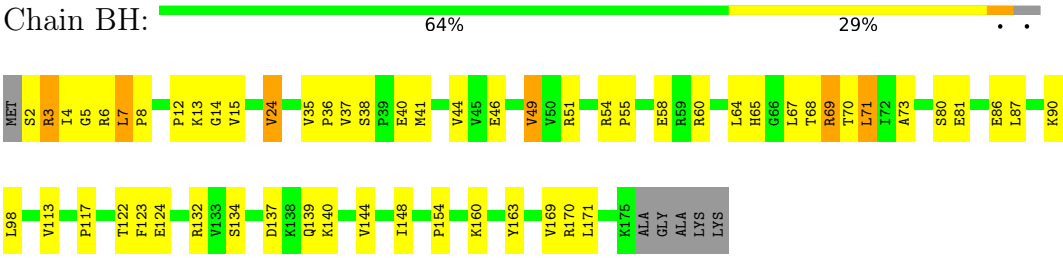
• Molecule 28: 50S Ribosomal Protein L5

Chain DG:



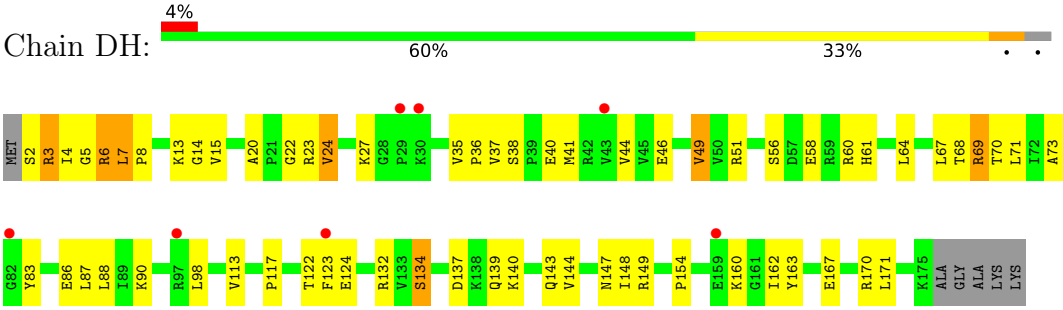
• Molecule 29: 50S Ribosomal Protein L6

Chain BH:



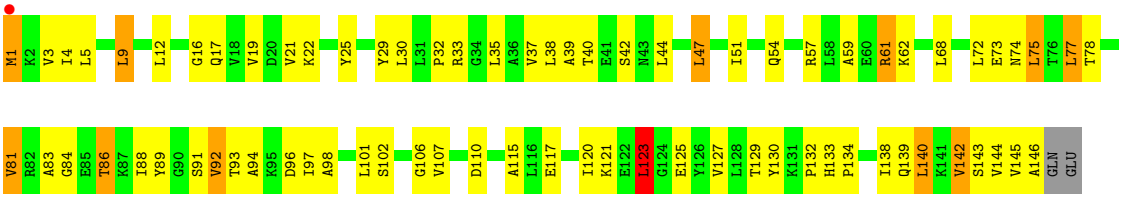
• Molecule 29: 50S Ribosomal Protein L6

Chain DH:



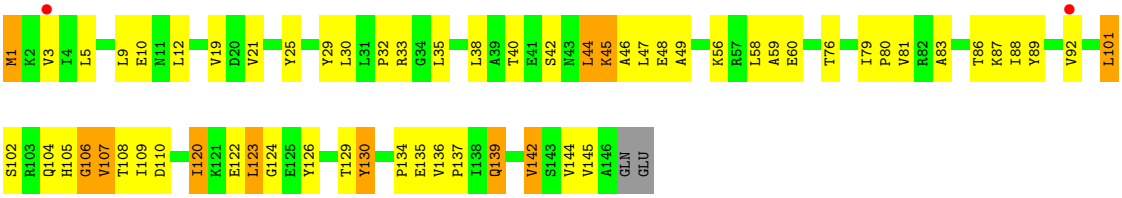
• Molecule 30: 50S Ribosomal Protein L9

Chain BI:



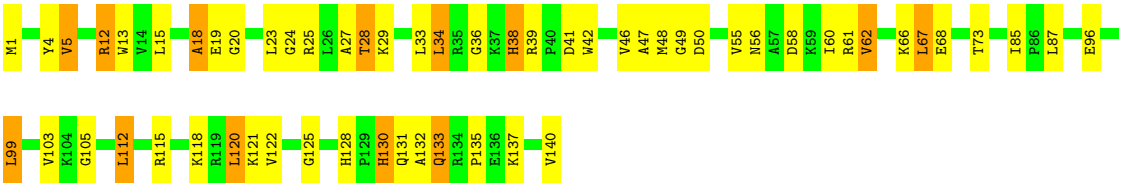
• Molecule 30: 50S Ribosomal Protein L9

Chain DI:



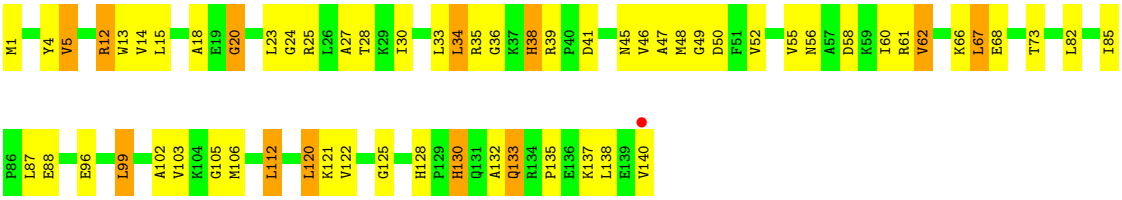
• Molecule 31: 50S Ribosomal Protein L13

Chain BN:



• Molecule 31: 50S Ribosomal Protein L13

Chain DN:

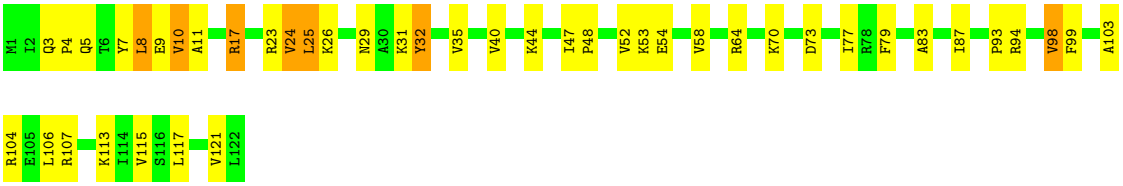


• Molecule 32: 50S Ribosomal Protein L14

Chain BO:

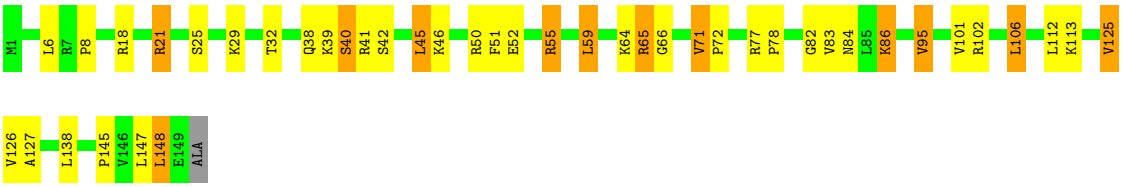
• Molecule 32: 50S Ribosomal Protein L14

Chain DO:



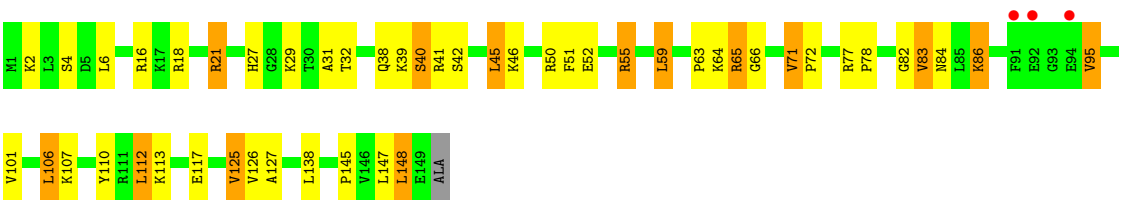
• Molecule 33: 50S Ribosomal Protein L15

Chain BP:



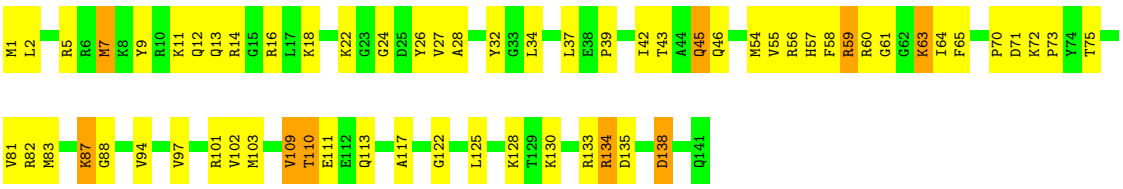
• Molecule 33: 50S Ribosomal Protein L15

Chain DP:



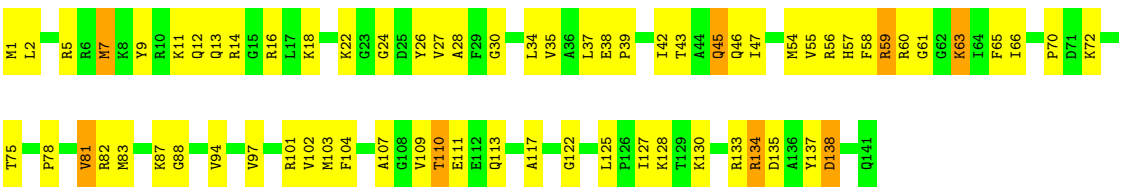
• Molecule 34: 50S Ribosomal Protein L16

Chain BQ:



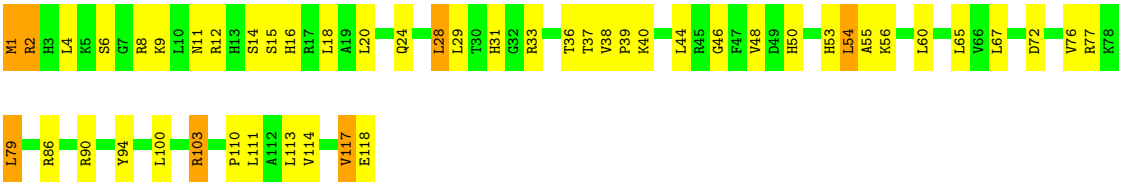
• Molecule 34: 50S Ribosomal Protein L16

Chain DQ:



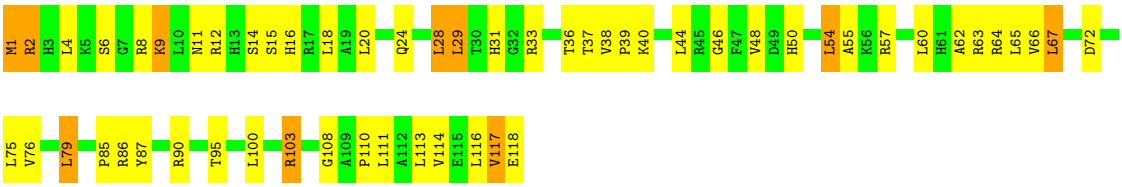
• Molecule 35: 50S Ribosomal Protein L17

Chain BR:



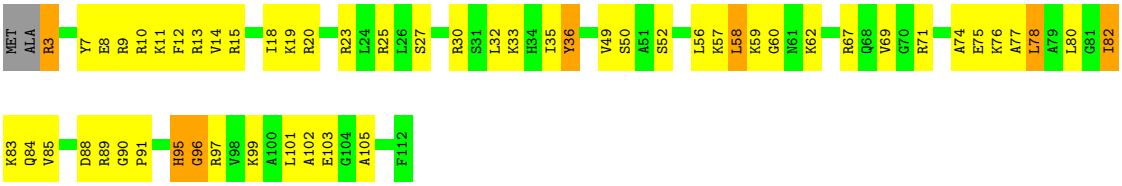
• Molecule 35: 50S Ribosomal Protein L17

Chain DR:



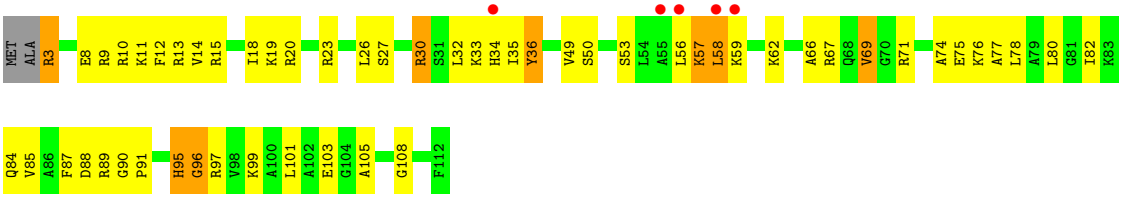
• Molecule 36: 50S Ribosomal Protein L18

Chain BS:



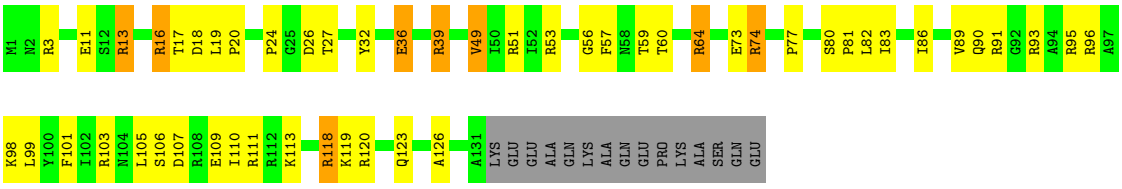
• Molecule 36: 50S Ribosomal Protein L18

Chain DS:



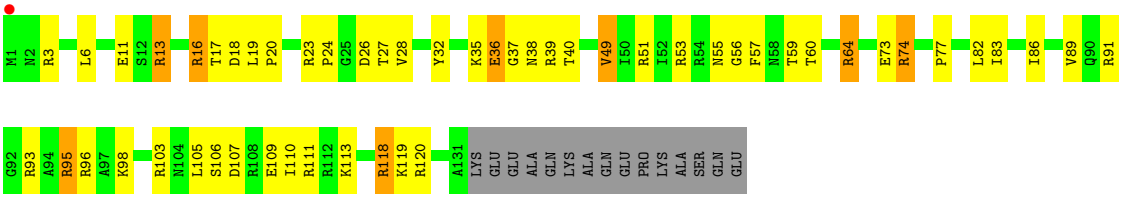
• Molecule 37: 50S Ribosomal Protein L19

Chain BT:



• Molecule 37: 50S Ribosomal Protein L19

Chain DT:

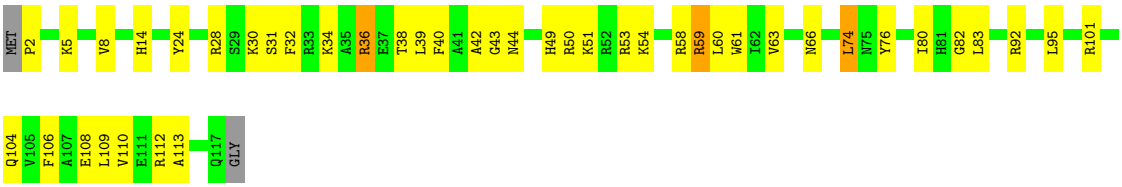


• Molecule 38: 50S Ribosomal Protein L20

Chain BU:

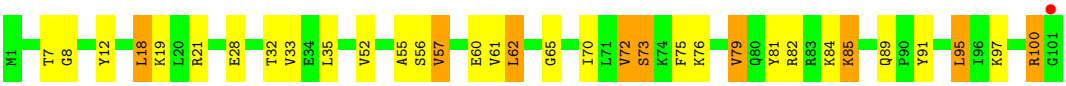
• Molecule 38: 50S Ribosomal Protein L20

Chain DU:



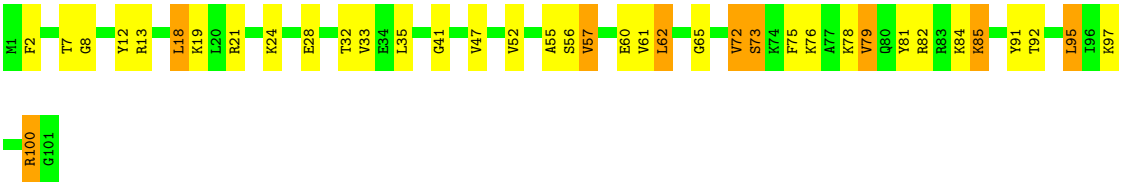
• Molecule 39: 50S Ribosomal Protein L21

Chain BV:



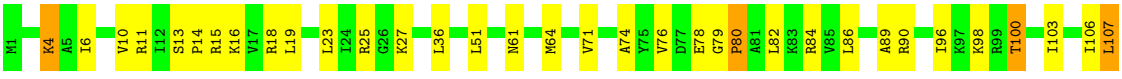
• Molecule 39: 50S Ribosomal Protein L21

Chain DV:



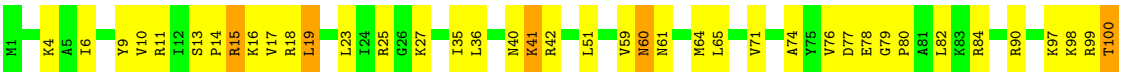
• Molecule 40: 50S Ribosomal Protein L22

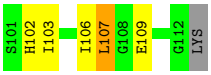
Chain BW:



• Molecule 40: 50S Ribosomal Protein L22

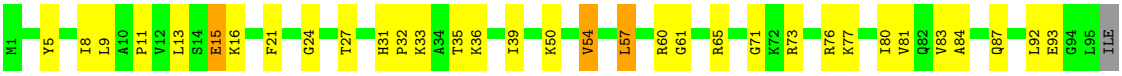
Chain DW:





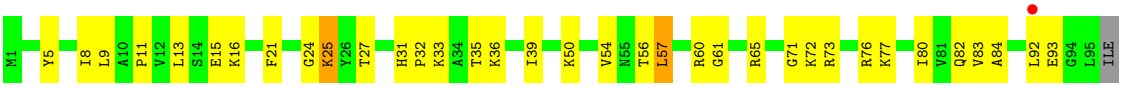
• Molecule 41: 50S Ribosomal Protein L23

Chain BX:



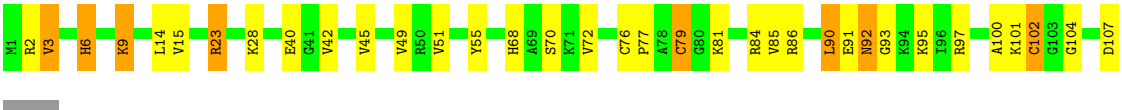
• Molecule 41: 50S Ribosomal Protein L23

Chain DX:



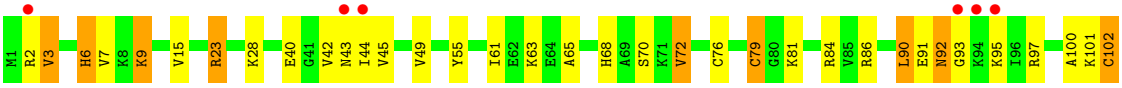
• Molecule 42: 50S Ribosomal Protein L24

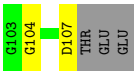
Chain BY:



• Molecule 42: 50S Ribosomal Protein L24

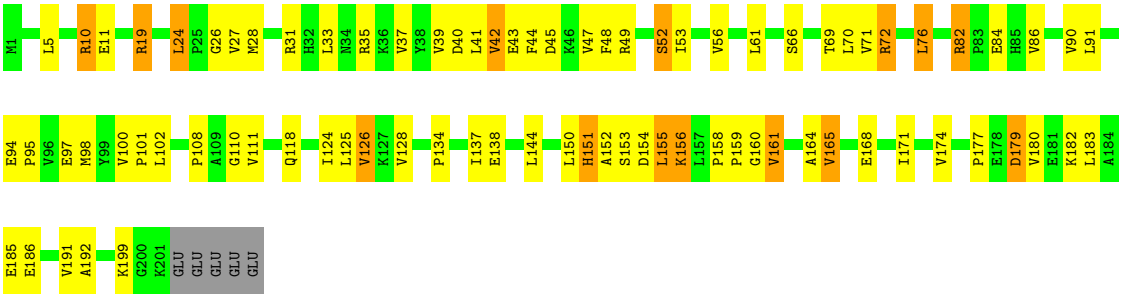
Chain DY:





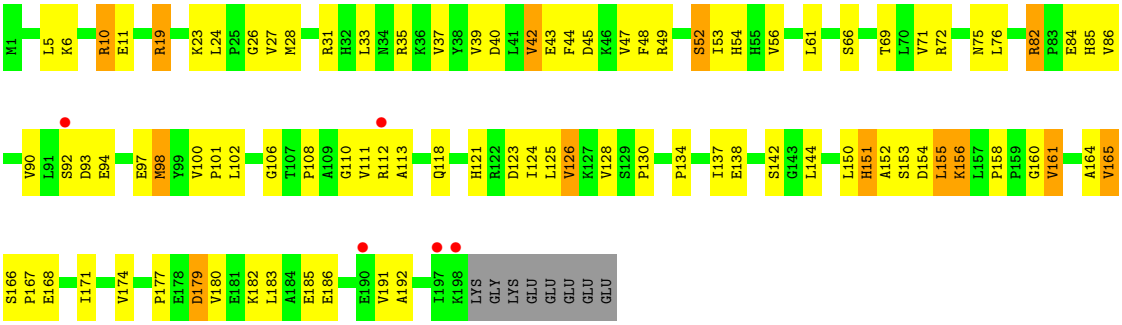
• Molecule 43: 50S Ribosomal Protein L25

Chain BZ:



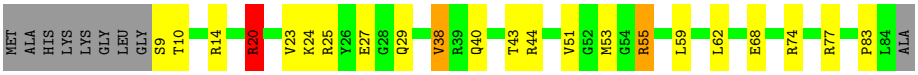
• Molecule 43: 50S Ribosomal Protein L25

Chain DZ:



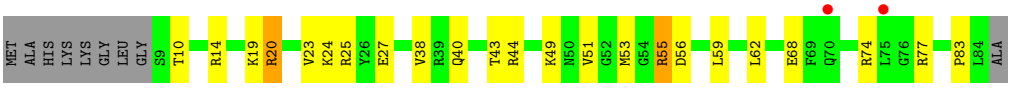
• Molecule 44: 50S Ribosomal Protein L27

Chain B0:



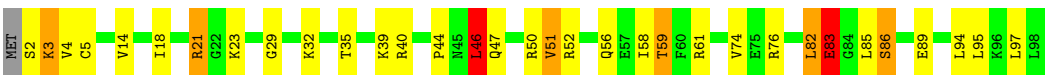
• Molecule 44: 50S Ribosomal Protein L27

Chain D0:



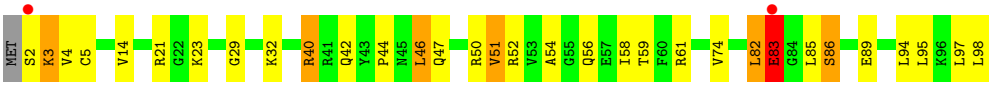
• Molecule 45: 50S Ribosomal Protein L28

Chain B1:



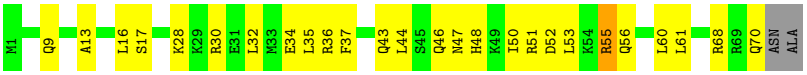
• Molecule 45: 50S Ribosomal Protein L28

Chain D1:



• Molecule 46: 50S Ribosomal Protein L29

Chain B2:

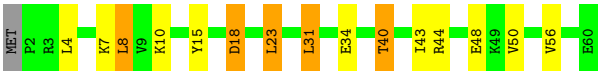


• Molecule 46: 50S Ribosomal Protein L29

Chain D2:

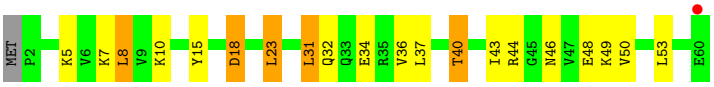
• Molecule 47: 50S Ribosomal Protein L30

Chain B3:



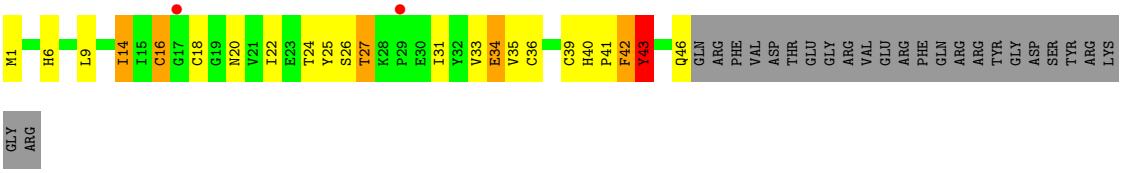
• Molecule 47: 50S Ribosomal Protein L30

Chain D3:



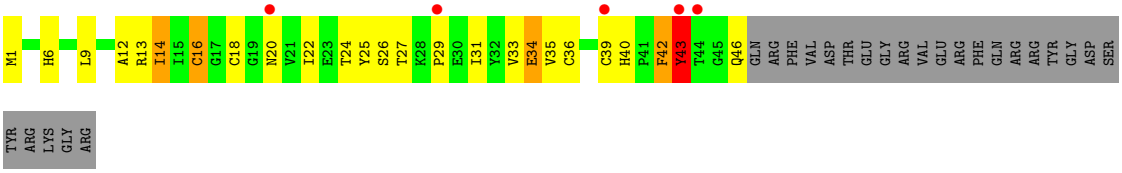
• Molecule 48: 50S Ribosomal Protein L31

Chain B4:



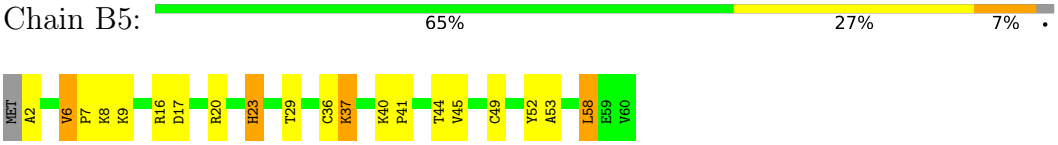
• Molecule 48: 50S Ribosomal Protein L31

Chain D4:



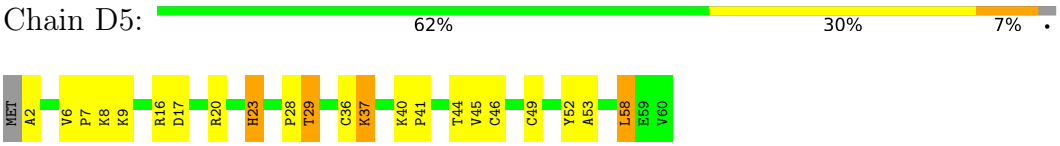
• Molecule 49: 50S Ribosomal Protein L32

Chain B5:



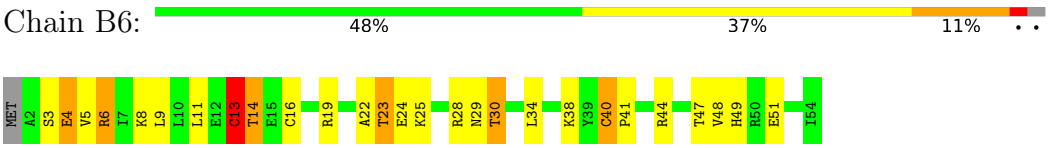
• Molecule 49: 50S Ribosomal Protein L32

Chain D5:



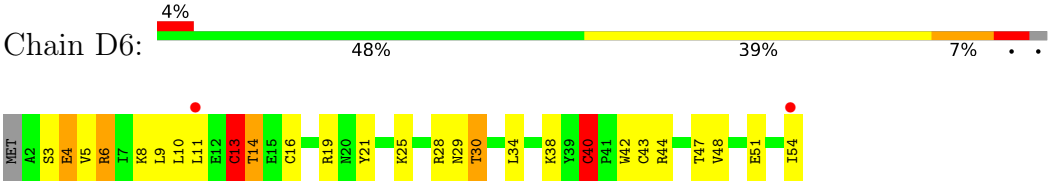
• Molecule 50: 50S Ribosomal Protein L33

Chain B6:



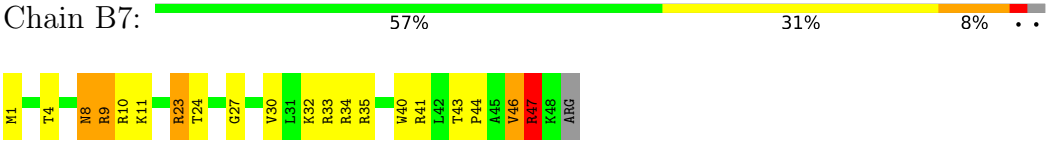
• Molecule 50: 50S Ribosomal Protein L33

Chain D6:



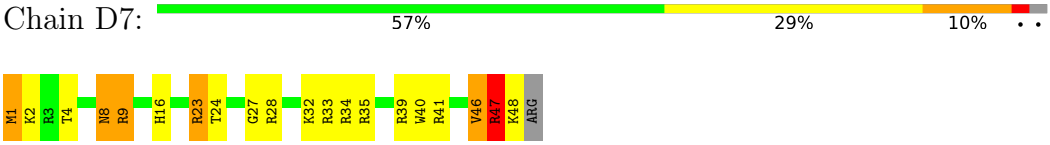
• Molecule 51: 50S Ribosomal Protein L34

Chain B7:



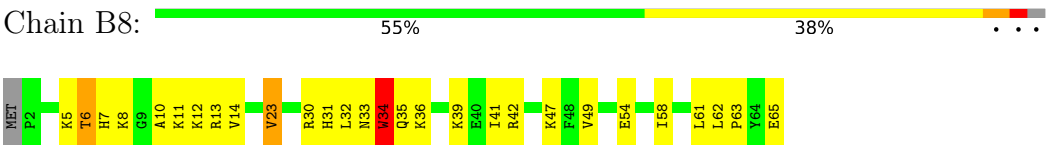
• Molecule 51: 50S Ribosomal Protein L34

Chain D7:



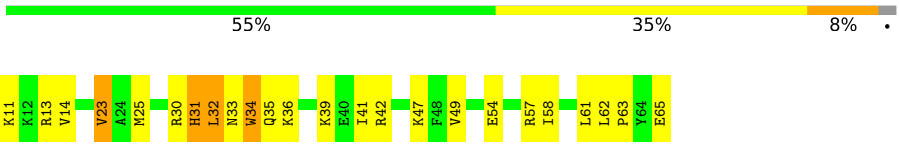
• Molecule 52: 50S Ribosomal Protein L35

Chain B8:



• Molecule 52: 50S Ribosomal Protein L35

Chain D8:



• Molecule 53: 50S Ribosomal Protein L36

Chain B9:

• Molecule 53: 50S Ribosomal Protein L36

Chain D9:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	208.97Å 447.24Å 617.67Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.98 – 3.10 49.98 – 3.10	Depositor EDS
% Data completeness (in resolution range)	96.0 (49.98-3.10) 96.0 (49.98-3.10)	Depositor EDS
R_{merge}	0.23	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.39 (at 3.12Å)	Xtriage
Refinement program	PHENIX 1.7.2_869	Depositor
R, R_{free}	0.216 , 0.258 0.214 , 0.257	Depositor DCC
R_{free} test set	49829 reflections (5.02%)	wwPDB-VP
Wilson B-factor (Å^2)	65.0	Xtriage
Anisotropy	0.263	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.26 , 54.9	EDS
L-test for twinning[2]	$< \|L\| > = 0.42$, $< L^2 > = 0.25$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	286308	wwPDB-VP
Average B, all atoms (Å^2)	74.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.51% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: MG, ZN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	AA	1.14	57/36123 (0.2%)	1.54	760/56379 (1.3%)
1	CA	1.11	53/36028 (0.1%)	1.55	750/56231 (1.3%)
2	AB	0.69	0/1822	0.79	1/2468 (0.0%)
2	CB	0.75	0/1809	0.79	1/2450 (0.0%)
3	AC	0.80	0/1474	0.88	0/2003
3	CC	0.78	0/1474	0.86	2/2003 (0.1%)
4	AD	0.68	2/1556 (0.1%)	0.87	3/2113 (0.1%)
4	CD	0.72	2/1556 (0.1%)	0.87	3/2113 (0.1%)
5	AE	0.61	0/1121	0.80	1/1517 (0.1%)
5	CE	0.63	0/1121	0.82	1/1517 (0.1%)
6	AF	0.59	0/790	0.73	0/1077
6	CF	0.62	0/790	0.73	0/1077
7	AG	1.04	0/1183	0.98	2/1599 (0.1%)
7	CG	0.96	0/1183	0.90	0/1599
8	AH	0.57	0/1065	0.73	0/1445
8	CH	0.58	0/1065	0.75	0/1445
9	AI	0.92	0/867	0.92	0/1180
9	CI	1.00	0/867	0.91	1/1180 (0.1%)
10	AJ	0.83	0/676	0.91	1/924 (0.1%)
10	CJ	0.90	0/676	0.97	0/924
11	AK	0.62	0/843	0.75	1/1144 (0.1%)
11	CK	0.61	0/843	0.75	1/1144 (0.1%)
12	AL	0.63	0/921	0.78	0/1247
12	CL	0.64	0/921	0.80	0/1247
13	AM	1.02	0/814	1.00	0/1107
13	CM	1.03	0/814	1.03	2/1107 (0.2%)
14	AN	0.76	0/487	0.90	0/649
14	CN	0.77	1/487 (0.2%)	0.87	1/649 (0.2%)
15	AO	0.62	0/735	0.84	0/981
15	CO	0.66	0/735	0.85	0/981
16	AP	0.63	0/667	0.82	0/905
16	CP	0.56	0/667	0.82	0/905

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AQ	0.66	0/836	0.84	0/1117
17	CQ	0.69	1/836 (0.1%)	0.85	0/1117
18	AR	0.59	0/519	0.76	1/699 (0.1%)
18	CR	0.63	0/519	0.76	1/699 (0.1%)
19	AS	0.96	0/574	0.87	0/781
19	CS	0.98	0/574	0.93	0/781
20	AT	0.63	0/666	0.79	0/880
20	CT	0.62	0/715	0.84	1/947 (0.1%)
21	AU	0.82	0/203	0.92	0/266
21	CU	0.91	0/203	0.97	0/266
22	AX	0.69	0/637	0.84	1/864 (0.1%)
22	CX	0.77	0/606	0.82	0/828
23	BA	1.58	572/68445 (0.8%)	1.72	2187/106848 (2.0%)
23	DA	1.21	155/67893 (0.2%)	1.65	1848/105980 (1.7%)
24	BB	1.13	6/2878 (0.2%)	1.53	60/4490 (1.3%)
24	DB	1.13	2/2878 (0.1%)	1.52	49/4490 (1.1%)
25	BD	0.90	1/2185 (0.0%)	0.91	4/2942 (0.1%)
25	DD	0.82	0/2186	0.91	2/2944 (0.1%)
26	BE	0.90	0/1588	0.92	0/2145
26	DE	0.78	0/1588	0.92	3/2145 (0.1%)
27	BF	0.91	0/1615	0.95	3/2188 (0.1%)
27	DF	0.74	0/1615	0.92	2/2188 (0.1%)
28	BG	0.61	0/1393	0.79	0/1892
28	DG	0.72	0/1393	0.81	0/1892
29	BH	0.72	0/1343	0.82	1/1820 (0.1%)
29	DH	0.66	0/1343	0.81	0/1820
30	BI	0.64	0/1052	0.87	1/1441 (0.1%)
30	DI	0.63	0/967	0.84	1/1334 (0.1%)
31	BN	0.87	0/1139	0.87	0/1538
31	DN	0.71	0/1139	0.89	1/1538 (0.1%)
32	BO	0.87	1/933 (0.1%)	0.88	1/1257 (0.1%)
32	DO	0.73	0/933	0.83	1/1257 (0.1%)
33	BP	0.84	0/1148	0.91	1/1529 (0.1%)
33	DP	0.73	0/1148	0.89	1/1529 (0.1%)
34	BQ	0.84	0/1143	0.87	1/1527 (0.1%)
34	DQ	0.74	0/1143	0.86	0/1527
35	BR	0.80	0/982	0.92	0/1312
35	DR	0.75	0/982	0.92	1/1312 (0.1%)
36	BS	0.67	0/875	0.88	1/1168 (0.1%)
36	DS	0.69	0/875	0.87	1/1168 (0.1%)
37	BT	0.83	0/1077	0.92	0/1444
37	DT	0.73	0/1077	0.90	0/1444
38	BU	1.00	1/977 (0.1%)	0.87	1/1301 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	DU	0.79	0/977	0.86	0/1301
39	BV	0.85	0/782	0.92	0/1049
39	DV	0.77	0/782	0.85	0/1049
40	BW	1.02	0/891	0.91	0/1197
40	DW	0.87	0/891	0.91	1/1197 (0.1%)
41	BX	0.91	0/756	0.88	2/1016 (0.2%)
41	DX	0.78	0/756	0.86	1/1016 (0.1%)
42	BY	0.80	1/798 (0.1%)	0.88	0/1073
42	DY	0.73	1/798 (0.1%)	0.89	0/1073
43	BZ	0.70	0/1569	0.82	1/2137 (0.0%)
43	DZ	0.72	0/1555	0.81	1/2118 (0.0%)
44	B0	0.85	0/602	0.92	1/804 (0.1%)
44	D0	0.78	0/602	0.92	0/804
45	B1	0.85	0/752	0.90	2/1003 (0.2%)
45	D1	0.80	0/752	0.89	1/1003 (0.1%)
46	B2	0.82	0/590	0.86	0/781
46	D2	0.79	0/590	0.86	0/781
47	B3	0.76	0/463	0.84	1/623 (0.2%)
47	D3	0.69	0/463	0.81	0/623
48	B4	0.68	0/358	0.84	1/487 (0.2%)
48	D4	0.85	0/358	0.83	1/487 (0.2%)
49	B5	0.93	1/469 (0.2%)	1.00	0/634
49	D5	0.86	1/469 (0.2%)	0.96	0/634
50	B6	0.93	2/456 (0.4%)	0.84	0/609
50	D6	0.75	0/456	0.87	2/609 (0.3%)
51	B7	1.03	1/426 (0.2%)	1.12	1/561 (0.2%)
51	D7	0.88	0/426	1.01	1/561 (0.2%)
52	B8	0.96	0/516	0.94	1/679 (0.1%)
52	D8	0.76	0/516	0.90	0/679
53	B9	0.79	0/300	0.95	0/395
53	D9	0.71	0/300	0.90	0/395
All	All	1.18	861/305420 (0.3%)	1.47	5724/457343 (1.3%)

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	3
2	CB	0	4
3	AC	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
3	CC	0	1
4	AD	0	1
4	CD	0	1
7	CG	0	2
9	AI	0	1
9	CI	0	1
10	AJ	0	2
10	CJ	0	2
13	AM	0	4
13	CM	0	2
14	AN	0	1
15	AO	0	1
15	CO	0	1
17	AQ	0	1
17	CQ	0	1
19	AS	0	1
19	CS	0	1
20	AT	0	1
20	CT	0	1
23	BA	0	1
23	DA	0	1
26	BE	0	1
26	DE	0	1
27	DF	0	1
30	DI	0	1
34	BQ	0	1
34	DQ	0	1
36	BS	0	1
36	DS	0	1
41	BX	0	1
41	DX	0	1
43	BZ	0	3
43	DZ	0	1
45	B1	0	1
45	D1	0	1
48	B4	0	1
48	D4	0	1
All	All	0	56

The worst 5 of 861 bond length outliers are listed below:

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	CA	1442(A)	G	N9-C4	17.19	1.51	1.38
1	AA	1442(A)	G	N9-C4	15.23	1.50	1.38
1	AA	1442(A)	G	C2-N3	15.04	1.44	1.32
1	CA	1442(A)	G	C2-N3	14.30	1.44	1.32
1	AA	1442(A)	G	N3-C4	13.24	1.44	1.35

The worst 5 of 5724 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	CA	1442(A)	G	N3-C4-C5	-26.14	115.53	128.60
23	DA	2296	U	N3-C4-O4	-25.95	101.23	119.40
1	AA	1442(A)	G	N3-C4-C5	-25.64	115.78	128.60
1	CA	1442(A)	G	N3-C4-N9	25.18	141.10	126.00
1	AA	1442(A)	G	N3-C4-N9	25.11	141.07	126.00

There are no chirality outliers.

5 of 56 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	AB	129	GLU	Peptide
2	AB	14	GLY	Peptide
2	AB	71	VAL	Peptide
3	AC	19	GLU	Peptide
3	AC	51	GLY	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	32270	0	16286	1214	0
1	CA	32185	0	16244	1267	1
2	AB	1787	0	1752	122	0
2	CB	1775	0	1743	121	0
3	AC	1450	0	1314	92	0
3	CC	1450	0	1314	123	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
4	AD	1526	0	1415	71	0
4	CD	1526	0	1415	85	0
5	AE	1105	0	1130	56	0
5	CE	1105	0	1130	60	0
6	AF	777	0	737	31	0
6	CF	777	0	737	35	0
7	AG	1164	0	1106	87	0
7	CG	1164	0	1106	99	0
8	AH	1045	0	1033	48	0
8	CH	1045	0	1033	51	0
9	AI	852	0	742	83	0
9	CI	852	0	742	79	0
10	AJ	663	0	558	56	0
10	CJ	663	0	558	70	0
11	AK	828	0	822	29	0
11	CK	828	0	822	28	0
12	AL	905	0	916	41	0
12	CL	905	0	916	32	0
13	AM	804	0	752	58	0
13	CM	804	0	752	60	0
14	AN	478	0	497	33	0
14	CN	478	0	496	58	0
15	AO	724	0	749	34	0
15	CO	724	0	749	31	0
16	AP	651	0	638	31	0
16	CP	651	0	638	36	0
17	AQ	823	0	891	43	0
17	CQ	823	0	891	47	0
18	AR	514	0	530	25	0
18	CR	514	0	530	21	0
19	AS	560	0	466	46	0
19	CS	560	0	466	40	0
20	AT	665	0	731	34	0
20	CT	713	0	766	39	0
21	AU	199	0	208	31	0
21	CU	199	0	208	23	0
22	AX	631	0	540	20	0
22	CX	601	0	485	16	0
23	BA	61112	0	30809	1210	1
23	DA	60621	0	30566	1219	0
24	BB	2573	0	1306	56	0
24	DB	2573	0	1306	55	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
25	BD	2135	0	2214	73	0
25	DD	2136	0	2218	79	0
26	BE	1555	0	1607	52	0
26	DE	1555	0	1607	56	0
27	BF	1580	0	1621	63	0
27	DF	1580	0	1621	63	0
28	BG	1368	0	1324	74	0
28	DG	1368	0	1324	86	0
29	BH	1317	0	1376	35	0
29	DH	1317	0	1376	36	0
30	BI	1037	0	1036	54	1
30	DI	953	0	858	38	0
31	BN	1112	0	1180	33	0
31	DN	1112	0	1180	44	0
32	BO	923	0	981	26	0
32	DO	923	0	981	28	0
33	BP	1131	0	1201	45	0
33	DP	1131	0	1201	55	0
34	BQ	1122	0	1179	46	0
34	DQ	1122	0	1179	49	0
35	BR	968	0	1033	32	0
35	DR	968	0	1033	36	0
36	BS	865	0	905	50	0
36	DS	865	0	905	50	0
37	BT	1063	0	1103	42	0
37	DT	1063	0	1103	43	0
38	BU	959	0	1019	34	0
38	DU	959	0	1019	35	0
39	BV	771	0	830	23	0
39	DV	771	0	830	25	0
40	BW	881	0	935	21	0
40	DW	881	0	935	31	0
41	BX	742	0	799	23	0
41	DX	742	0	799	26	0
42	BY	785	0	828	23	0
42	DY	785	0	828	23	0
43	BZ	1536	0	1518	52	0
43	DZ	1522	0	1511	65	0
44	B0	594	0	604	16	0
44	D0	594	0	604	17	0
45	B1	745	0	804	21	0
45	D1	745	0	804	24	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
46	B2	588	0	643	16	0
46	D2	588	0	643	19	0
47	B3	458	0	503	8	0
47	D3	458	0	503	13	0
48	B4	349	0	336	23	0
48	D4	349	0	336	28	0
49	B5	455	0	472	13	0
49	D5	455	0	472	14	0
50	B6	449	0	462	18	0
50	D6	449	0	462	15	0
51	B7	418	0	467	14	0
51	D7	418	0	467	18	0
52	B8	509	0	565	18	0
52	D8	509	0	565	22	0
53	B9	297	0	316	9	0
53	D9	297	0	316	9	0
54	AA	135	0	0	0	0
54	AC	1	0	0	0	0
54	AD	1	0	0	0	0
54	AF	1	0	0	0	0
54	AQ	1	0	0	0	0
54	B0	3	0	0	0	0
54	B1	1	0	0	0	0
54	B2	1	0	0	0	0
54	B3	1	0	0	0	0
54	B5	2	0	0	0	0
54	B8	2	0	0	0	0
54	B9	1	0	0	0	0
54	BA	660	0	0	0	0
54	BB	23	0	0	0	0
54	BD	3	0	0	0	0
54	BE	5	0	0	0	0
54	BF	2	0	0	0	0
54	BG	1	0	0	0	0
54	BP	1	0	0	0	0
54	BQ	4	0	0	0	0
54	BR	1	0	0	0	0
54	BS	1	0	0	0	0
54	BT	2	0	0	0	0
54	BV	1	0	0	0	0
54	BW	2	0	0	0	0
54	BZ	1	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
54	CA	162	0	0	0	0
54	CE	1	0	0	0	0
54	CQ	1	0	0	0	0
54	D0	2	0	0	0	0
54	D1	1	0	0	0	0
54	D5	1	0	0	0	0
54	D8	2	0	0	0	0
54	DA	598	0	0	0	0
54	DB	8	0	0	0	0
54	DD	2	0	0	0	0
54	DE	4	0	0	0	0
54	DF	1	0	0	0	0
54	DO	2	0	0	0	0
54	DP	1	0	0	0	0
54	DQ	2	0	0	0	0
54	DR	3	0	0	0	0
55	AD	1	0	0	0	0
55	AN	1	0	0	0	0
55	B4	1	0	0	0	0
55	B5	1	0	0	0	0
55	B6	1	0	0	0	0
55	B9	1	0	0	0	0
55	BY	1	0	0	0	0
55	CD	1	0	0	0	0
55	CN	1	0	0	0	0
55	D4	1	0	0	0	0
55	D5	1	0	0	0	0
55	D6	1	0	0	0	0
55	D9	1	0	0	0	0
55	DY	1	0	0	0	0
56	AA	268	0	0	32	0
56	AE	1	0	0	0	0
56	AL	1	0	0	0	0
56	AO	1	0	0	0	0
56	AP	1	0	0	0	0
56	AT	1	0	0	0	0
56	AX	1	0	0	0	0
56	B0	8	0	0	0	0
56	B1	2	0	0	0	0
56	B3	1	0	0	0	0
56	B5	3	0	0	0	0
56	B6	1	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	B7	5	0	0	0	0
56	B8	10	0	0	0	0
56	B9	1	0	0	1	0
56	BA	1694	0	0	169	0
56	BB	57	0	0	3	1
56	BD	20	0	0	3	0
56	BE	11	0	0	0	0
56	BF	6	0	0	1	0
56	BH	1	0	0	0	0
56	BN	2	0	0	0	0
56	BO	2	0	0	0	0
56	BP	11	0	0	2	0
56	BQ	5	0	0	0	0
56	BR	6	0	0	1	0
56	BT	1	0	0	0	0
56	BU	3	0	0	0	0
56	BV	3	0	0	0	0
56	BW	3	0	0	0	0
56	BX	2	0	0	0	0
56	BY	4	0	0	0	0
56	CA	265	0	0	25	0
56	CC	1	0	0	2	0
56	CD	1	0	0	0	0
56	CE	2	0	0	0	0
56	CK	1	0	0	1	0
56	CL	2	0	0	1	0
56	CN	1	0	0	0	0
56	CP	1	0	0	0	0
56	CQ	1	0	0	0	0
56	CT	1	0	0	0	0
56	CX	1	0	0	0	0
56	D0	1	0	0	0	0
56	D1	5	0	0	0	0
56	D3	1	0	0	0	0
56	D4	1	0	0	0	0
56	D7	3	0	0	0	0
56	D8	1	0	0	0	0
56	DA	1174	0	0	171	0
56	DB	17	0	0	0	0
56	DD	8	0	0	2	0
56	DE	11	0	0	2	0
56	DF	7	0	0	1	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	DN	1	0	0	0	0
56	DO	5	0	0	1	0
56	DP	10	0	0	1	0
56	DQ	3	0	0	0	0
56	DR	2	0	0	1	0
56	DT	2	0	0	0	0
56	DU	5	0	0	0	0
56	DV	2	0	0	1	0
56	DW	2	0	0	0	0
56	DX	1	0	0	1	0
56	DY	2	0	0	0	0
All	All	286308	0	187082	8298	2

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 18.

The worst 5 of 8298 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:1441:G:H2'	1:AA:1459:C:N4	1.20	1.46
1:AA:1459:C:C5	1:AA:1460:A:N6	1.79	1.44
1:AA:1441:G:C2'	1:AA:1459:C:N4	1.88	1.36
1:AA:1441:G:C2'	1:AA:1459:C:H41	1.44	1.29
1:CA:1441:G:H2'	1:CA:1459:C:N4	1.50	1.25

All (2) symmetry-related close contacts are listed below. The label for Atom-2 includes the symmetry operator and encoded unit-cell translations to be applied.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
23:BA:1594:G:OP1	56:BB:323:HOH:O[1_455]	2.18	0.02
30:BI:91:SER:OG	1:CA:368:U:OP1[3_654]	2.19	0.01

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	228/256 (89%)	199 (87%)	28 (12%)	1 (0%)	34	69
2	CB	227/256 (89%)	197 (87%)	29 (13%)	1 (0%)	34	69
3	AC	204/239 (85%)	175 (86%)	28 (14%)	1 (0%)	29	64
3	CC	204/239 (85%)	177 (87%)	27 (13%)	0	100	100
4	AD	206/209 (99%)	190 (92%)	16 (8%)	0	100	100
4	CD	206/209 (99%)	190 (92%)	16 (8%)	0	100	100
5	AE	146/162 (90%)	134 (92%)	12 (8%)	0	100	100
5	CE	146/162 (90%)	135 (92%)	10 (7%)	1 (1%)	22	57
6	AF	98/101 (97%)	97 (99%)	1 (1%)	0	100	100
6	CF	98/101 (97%)	96 (98%)	2 (2%)	0	100	100
7	AG	153/156 (98%)	138 (90%)	13 (8%)	2 (1%)	12	42
7	CG	153/156 (98%)	132 (86%)	20 (13%)	1 (1%)	22	57
8	AH	136/138 (99%)	131 (96%)	5 (4%)	0	100	100
8	CH	136/138 (99%)	131 (96%)	5 (4%)	0	100	100
9	AI	123/128 (96%)	112 (91%)	10 (8%)	1 (1%)	19	54
9	CI	123/128 (96%)	111 (90%)	11 (9%)	1 (1%)	19	54
10	AJ	94/105 (90%)	78 (83%)	13 (14%)	3 (3%)	4	22
10	CJ	94/105 (90%)	76 (81%)	16 (17%)	2 (2%)	7	30
11	AK	112/129 (87%)	106 (95%)	6 (5%)	0	100	100
11	CK	112/129 (87%)	106 (95%)	6 (5%)	0	100	100
12	AL	120/132 (91%)	110 (92%)	9 (8%)	1 (1%)	19	54
12	CL	120/132 (91%)	109 (91%)	10 (8%)	1 (1%)	19	54
13	AM	112/126 (89%)	89 (80%)	21 (19%)	2 (2%)	8	34
13	CM	112/126 (89%)	87 (78%)	21 (19%)	4 (4%)	3	20
14	AN	58/61 (95%)	47 (81%)	9 (16%)	2 (3%)	3	21
14	CN	58/61 (95%)	52 (90%)	6 (10%)	0	100	100
15	AO	86/89 (97%)	75 (87%)	9 (10%)	2 (2%)	6	28
15	CO	86/89 (97%)	75 (87%)	9 (10%)	2 (2%)	6	28
16	AP	80/88 (91%)	75 (94%)	4 (5%)	1 (1%)	12	42
16	CP	80/88 (91%)	74 (92%)	5 (6%)	1 (1%)	12	42

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
17	AQ	97/105 (92%)	90 (93%)	7 (7%)	0	100	100
17	CQ	97/105 (92%)	89 (92%)	8 (8%)	0	100	100
18	AR	66/88 (75%)	63 (96%)	3 (4%)	0	100	100
18	CR	66/88 (75%)	63 (96%)	3 (4%)	0	100	100
19	AS	79/93 (85%)	67 (85%)	11 (14%)	1 (1%)	12	42
19	CS	79/93 (85%)	65 (82%)	13 (16%)	1 (1%)	12	42
20	AT	85/106 (80%)	78 (92%)	7 (8%)	0	100	100
20	CT	95/106 (90%)	84 (88%)	8 (8%)	3 (3%)	4	22
21	AU	21/27 (78%)	19 (90%)	2 (10%)	0	100	100
21	CU	21/27 (78%)	20 (95%)	1 (5%)	0	100	100
22	AX	93/101 (92%)	79 (85%)	13 (14%)	1 (1%)	14	46
22	CX	93/101 (92%)	84 (90%)	9 (10%)	0	100	100
25	BD	273/276 (99%)	260 (95%)	12 (4%)	1 (0%)	34	69
25	DD	273/276 (99%)	259 (95%)	13 (5%)	1 (0%)	34	69
26	BE	202/206 (98%)	190 (94%)	10 (5%)	2 (1%)	15	49
26	DE	202/206 (98%)	188 (93%)	12 (6%)	2 (1%)	15	49
27	BF	201/210 (96%)	195 (97%)	6 (3%)	0	100	100
27	DF	201/210 (96%)	193 (96%)	7 (4%)	1 (0%)	29	64
28	BG	179/182 (98%)	150 (84%)	28 (16%)	1 (1%)	25	59
28	DG	179/182 (98%)	150 (84%)	29 (16%)	0	100	100
29	BH	172/180 (96%)	163 (95%)	8 (5%)	1 (1%)	25	59
29	DH	172/180 (96%)	162 (94%)	9 (5%)	1 (1%)	25	59
30	BI	144/148 (97%)	121 (84%)	21 (15%)	2 (1%)	11	40
30	DI	144/148 (97%)	123 (85%)	19 (13%)	2 (1%)	11	40
31	BN	138/140 (99%)	129 (94%)	6 (4%)	3 (2%)	6	29
31	DN	138/140 (99%)	128 (93%)	7 (5%)	3 (2%)	6	29
32	BO	120/122 (98%)	117 (98%)	3 (2%)	0	100	100
32	DO	120/122 (98%)	118 (98%)	2 (2%)	0	100	100
33	BP	147/150 (98%)	137 (93%)	10 (7%)	0	100	100
33	DP	147/150 (98%)	136 (92%)	11 (8%)	0	100	100
34	BQ	139/141 (99%)	130 (94%)	8 (6%)	1 (1%)	22	57

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
34	DQ	139/141 (99%)	130 (94%)	8 (6%)	1 (1%)	22	57
35	BR	116/118 (98%)	111 (96%)	5 (4%)	0	100	100
35	DR	116/118 (98%)	110 (95%)	6 (5%)	0	100	100
36	BS	108/112 (96%)	101 (94%)	7 (6%)	0	100	100
36	DS	108/112 (96%)	101 (94%)	7 (6%)	0	100	100
37	BT	129/146 (88%)	127 (98%)	2 (2%)	0	100	100
37	DT	129/146 (88%)	126 (98%)	3 (2%)	0	100	100
38	BU	114/118 (97%)	114 (100%)	0	0	100	100
38	DU	114/118 (97%)	114 (100%)	0	0	100	100
39	BV	99/101 (98%)	93 (94%)	6 (6%)	0	100	100
39	DV	99/101 (98%)	94 (95%)	5 (5%)	0	100	100
40	BW	110/113 (97%)	108 (98%)	1 (1%)	1 (1%)	17	52
40	DW	110/113 (97%)	107 (97%)	3 (3%)	0	100	100
41	BX	93/96 (97%)	88 (95%)	5 (5%)	0	100	100
41	DX	93/96 (97%)	88 (95%)	5 (5%)	0	100	100
42	BY	105/110 (96%)	94 (90%)	10 (10%)	1 (1%)	15	49
42	DY	105/110 (96%)	94 (90%)	10 (10%)	1 (1%)	15	49
43	BZ	199/206 (97%)	183 (92%)	14 (7%)	2 (1%)	15	49
43	DZ	196/206 (95%)	180 (92%)	14 (7%)	2 (1%)	15	49
44	B0	74/85 (87%)	72 (97%)	2 (3%)	0	100	100
44	D0	74/85 (87%)	73 (99%)	1 (1%)	0	100	100
45	B1	95/98 (97%)	93 (98%)	1 (1%)	1 (1%)	14	46
45	D1	95/98 (97%)	93 (98%)	1 (1%)	1 (1%)	14	46
46	B2	68/72 (94%)	64 (94%)	4 (6%)	0	100	100
46	D2	68/72 (94%)	63 (93%)	5 (7%)	0	100	100
47	B3	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
47	D3	57/60 (95%)	55 (96%)	2 (4%)	0	100	100
48	B4	44/71 (62%)	36 (82%)	8 (18%)	0	100	100
48	D4	44/71 (62%)	36 (82%)	8 (18%)	0	100	100
49	B5	57/60 (95%)	52 (91%)	5 (9%)	0	100	100
49	D5	57/60 (95%)	52 (91%)	5 (9%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
50	B6	51/54 (94%)	48 (94%)	3 (6%)	0	100 100
50	D6	51/54 (94%)	48 (94%)	3 (6%)	0	100 100
51	B7	46/49 (94%)	43 (94%)	2 (4%)	1 (2%)	6 29
51	D7	46/49 (94%)	43 (94%)	2 (4%)	1 (2%)	6 29
52	B8	62/65 (95%)	59 (95%)	3 (5%)	0	100 100
52	D8	62/65 (95%)	59 (95%)	3 (5%)	0	100 100
53	B9	34/37 (92%)	34 (100%)	0	0	100 100
53	D9	34/37 (92%)	33 (97%)	1 (3%)	0	100 100
All	All	11552/12330 (94%)	10628 (92%)	855 (7%)	69 (1%)	25 59

5 of 69 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
20	CT	100	ILE
12	AL	28	LYS
14	AN	15	LYS
16	AP	79	VAL
12	CL	28	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	178/220 (81%)	133 (75%)	45 (25%)	0 1
2	CB	177/220 (80%)	133 (75%)	44 (25%)	0 2
3	AC	114/188 (61%)	79 (69%)	35 (31%)	0 0
3	CC	114/188 (61%)	92 (81%)	22 (19%)	1 6
4	AD	141/181 (78%)	118 (84%)	23 (16%)	2 10
4	CD	141/181 (78%)	119 (84%)	22 (16%)	2 11
5	AE	108/123 (88%)	87 (81%)	21 (19%)	1 6
5	CE	108/123 (88%)	87 (81%)	21 (19%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
6	AF	76/90 (84%)	61 (80%)	15 (20%)	1 6
6	CF	76/90 (84%)	58 (76%)	18 (24%)	1 2
7	AG	103/127 (81%)	73 (71%)	30 (29%)	0 1
7	CG	103/127 (81%)	68 (66%)	35 (34%)	0 0
8	AH	103/119 (87%)	82 (80%)	21 (20%)	1 5
8	CH	103/119 (87%)	83 (81%)	20 (19%)	1 6
9	AI	62/99 (63%)	47 (76%)	15 (24%)	0 2
9	CI	62/99 (63%)	47 (76%)	15 (24%)	0 2
10	AJ	53/92 (58%)	38 (72%)	15 (28%)	0 1
10	CJ	53/92 (58%)	39 (74%)	14 (26%)	0 1
11	AK	81/99 (82%)	71 (88%)	10 (12%)	4 19
11	CK	81/99 (82%)	70 (86%)	11 (14%)	3 16
12	AL	91/109 (84%)	80 (88%)	11 (12%)	5 20
12	CL	91/109 (84%)	81 (89%)	10 (11%)	6 25
13	AM	64/101 (63%)	48 (75%)	16 (25%)	0 2
13	CM	64/101 (63%)	49 (77%)	15 (23%)	1 3
14	AN	46/50 (92%)	36 (78%)	10 (22%)	1 4
14	CN	46/50 (92%)	32 (70%)	14 (30%)	0 0
15	AO	77/80 (96%)	68 (88%)	9 (12%)	5 22
15	CO	77/80 (96%)	68 (88%)	9 (12%)	5 22
16	AP	63/74 (85%)	46 (73%)	17 (27%)	0 1
16	CP	63/74 (85%)	44 (70%)	19 (30%)	0 0
17	AQ	94/97 (97%)	80 (85%)	14 (15%)	3 13
17	CQ	94/97 (97%)	81 (86%)	13 (14%)	3 16
18	AR	49/77 (64%)	44 (90%)	5 (10%)	7 27
18	CR	49/77 (64%)	44 (90%)	5 (10%)	7 27
19	AS	43/80 (54%)	26 (60%)	17 (40%)	0 0
19	CS	43/80 (54%)	32 (74%)	11 (26%)	0 1
20	AT	64/82 (78%)	55 (86%)	9 (14%)	3 15
20	CT	65/82 (79%)	55 (85%)	10 (15%)	2 11
21	AU	18/22 (82%)	13 (72%)	5 (28%)	0 1

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
21	CU	18/22 (82%)	11 (61%)	7 (39%)	0 0
22	AX	45/87 (52%)	34 (76%)	11 (24%)	0 2
22	CX	38/87 (44%)	29 (76%)	9 (24%)	1 2
25	BD	215/218 (99%)	182 (85%)	33 (15%)	2 12
25	DD	215/218 (99%)	183 (85%)	32 (15%)	3 13
26	BE	163/166 (98%)	135 (83%)	28 (17%)	2 9
26	DE	163/166 (98%)	137 (84%)	26 (16%)	2 11
27	BF	159/166 (96%)	135 (85%)	24 (15%)	3 12
27	DF	159/166 (96%)	134 (84%)	25 (16%)	2 11
28	BG	128/156 (82%)	109 (85%)	19 (15%)	3 13
28	DG	128/156 (82%)	109 (85%)	19 (15%)	3 13
29	BH	141/148 (95%)	123 (87%)	18 (13%)	4 18
29	DH	141/148 (95%)	123 (87%)	18 (13%)	4 18
30	BI	98/124 (79%)	81 (83%)	17 (17%)	2 9
30	DI	74/124 (60%)	60 (81%)	14 (19%)	1 6
31	BN	117/119 (98%)	98 (84%)	19 (16%)	2 10
31	DN	117/119 (98%)	98 (84%)	19 (16%)	2 10
32	BO	98/100 (98%)	82 (84%)	16 (16%)	2 10
32	DO	98/100 (98%)	83 (85%)	15 (15%)	2 12
33	BP	114/116 (98%)	99 (87%)	15 (13%)	4 17
33	DP	114/116 (98%)	99 (87%)	15 (13%)	4 17
34	BQ	111/111 (100%)	96 (86%)	15 (14%)	4 16
34	DQ	111/111 (100%)	96 (86%)	15 (14%)	4 16
35	BR	101/101 (100%)	79 (78%)	22 (22%)	1 4
35	DR	101/101 (100%)	77 (76%)	24 (24%)	0 2
36	BS	84/88 (96%)	67 (80%)	17 (20%)	1 5
36	DS	84/88 (96%)	68 (81%)	16 (19%)	1 6
37	BT	110/127 (87%)	98 (89%)	12 (11%)	6 25
37	DT	110/127 (87%)	95 (86%)	15 (14%)	3 16
38	BU	93/94 (99%)	82 (88%)	11 (12%)	5 21
38	DU	93/94 (99%)	83 (89%)	10 (11%)	6 25

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
39	BV	80/82 (98%)	63 (79%)	17 (21%)	1 4
39	DV	80/82 (98%)	63 (79%)	17 (21%)	1 4
40	BW	89/92 (97%)	81 (91%)	8 (9%)	9 34
40	DW	89/92 (97%)	78 (88%)	11 (12%)	4 19
41	BX	75/78 (96%)	71 (95%)	4 (5%)	22 54
41	DX	75/78 (96%)	70 (93%)	5 (7%)	16 46
42	BY	80/91 (88%)	64 (80%)	16 (20%)	1 5
42	DY	80/91 (88%)	63 (79%)	17 (21%)	1 4
43	BZ	159/179 (89%)	137 (86%)	22 (14%)	3 16
43	DZ	159/179 (89%)	139 (87%)	20 (13%)	4 18
44	B0	59/67 (88%)	51 (86%)	8 (14%)	3 16
44	D0	59/67 (88%)	50 (85%)	9 (15%)	2 12
45	B1	78/83 (94%)	63 (81%)	15 (19%)	1 6
45	D1	78/83 (94%)	66 (85%)	12 (15%)	2 11
46	B2	65/67 (97%)	54 (83%)	11 (17%)	2 9
46	D2	65/67 (97%)	55 (85%)	10 (15%)	2 11
47	B3	49/52 (94%)	44 (90%)	5 (10%)	7 27
47	D3	49/52 (94%)	44 (90%)	5 (10%)	7 27
48	B4	39/63 (62%)	33 (85%)	6 (15%)	2 11
48	D4	39/63 (62%)	33 (85%)	6 (15%)	2 11
49	B5	50/52 (96%)	42 (84%)	8 (16%)	2 11
49	D5	50/52 (96%)	41 (82%)	9 (18%)	1 7
50	B6	50/52 (96%)	39 (78%)	11 (22%)	1 4
50	D6	50/52 (96%)	40 (80%)	10 (20%)	1 5
51	B7	41/42 (98%)	34 (83%)	7 (17%)	2 9
51	D7	41/42 (98%)	34 (83%)	7 (17%)	2 9
52	B8	52/55 (94%)	42 (81%)	10 (19%)	1 6
52	D8	52/55 (94%)	42 (81%)	10 (19%)	1 6
53	B9	32/34 (94%)	28 (88%)	4 (12%)	4 18
53	D9	32/34 (94%)	28 (88%)	4 (12%)	4 18
All	All	8775/10240 (86%)	7244 (83%)	1531 (17%)	2 9

5 of 1531 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
7	CG	125	MET
25	DD	273	ARG
8	CH	127	LEU
7	CG	120	ILE
15	CO	72	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 108 such sidechains are listed below:

Mol	Chain	Res	Type
50	B6	49	HIS
6	CF	73	ASN
33	DP	84	ASN
2	CB	110	GLN
3	CC	69	HIS

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1499/1522 (98%)	385 (25%)	33 (2%)
1	CA	1495/1522 (98%)	396 (26%)	34 (2%)
23	BA	2833/2913 (97%)	609 (21%)	60 (2%)
23	DA	2807/2913 (96%)	600 (21%)	56 (1%)
24	BB	119/122 (97%)	25 (21%)	0
24	DB	119/122 (97%)	26 (21%)	0
All	All	8872/9114 (97%)	2041 (23%)	183 (2%)

5 of 2041 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	5	U
1	AA	6	G
1	AA	7	G
1	AA	9	G
1	AA	32	A

5 of 183 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	CA	1201	A

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Mol	Chain	Res	Type
23	DA	764	A
1	CA	1280	A
23	DA	249	C
23	DA	1049	C

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

There are no non-standard protein/DNA/RNA residues in this entry.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 1662 ligands modelled in this entry, 1662 are monoatomic - leaving 0 for Mogul analysis.

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

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

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
1	AA	1501/1522 (98%)	0.01	57 (3%) 40 20	47, 95, 155, 169	0
1	CA	1497/1522 (98%)	-0.01	63 (4%) 36 18	50, 96, 158, 171	0
2	AB	230/256 (89%)	-0.08	8 (3%) 44 23	87, 114, 134, 148	0
2	CB	229/256 (89%)	0.31	9 (3%) 39 20	92, 116, 136, 149	0
3	AC	206/239 (86%)	0.06	5 (2%) 59 37	85, 109, 127, 136	0
3	CC	206/239 (86%)	0.34	15 (7%) 15 6	94, 120, 143, 158	0
4	AD	208/209 (99%)	-0.05	5 (2%) 59 37	75, 94, 114, 125	0
4	CD	208/209 (99%)	0.03	3 (1%) 75 56	76, 93, 114, 124	0
5	AE	148/162 (91%)	-0.21	0 100 100	66, 86, 103, 125	0
5	CE	148/162 (91%)	-0.07	3 (2%) 65 44	69, 88, 104, 127	0
6	AF	100/101 (99%)	-0.31	1 (1%) 82 67	67, 82, 100, 116	0
6	CF	100/101 (99%)	-0.32	1 (1%) 82 67	70, 86, 103, 117	0
7	AG	155/156 (99%)	1.94	67 (43%) 0 0	113, 139, 153, 159	0
7	CG	155/156 (99%)	1.93	69 (44%) 0 0	122, 137, 149, 159	0
8	AH	138/138 (100%)	0.10	2 (1%) 75 56	71, 90, 100, 110	0
8	CH	138/138 (100%)	-0.04	5 (3%) 42 22	71, 92, 103, 113	0
9	AI	125/128 (97%)	1.16	33 (26%) 0 0	110, 137, 149, 154	0
9	CI	125/128 (97%)	2.58	65 (52%) 0 0	115, 139, 152, 163	0
10	AJ	96/105 (91%)	1.55	32 (33%) 0 0	92, 126, 141, 147	0
10	CJ	96/105 (91%)	1.93	41 (42%) 0 0	108, 134, 150, 160	0
11	AK	114/129 (88%)	-0.05	1 (0%) 84 69	60, 86, 108, 120	0
11	CK	114/129 (88%)	0.07	5 (4%) 34 17	63, 89, 107, 126	0
12	AL	122/132 (92%)	-0.12	1 (0%) 86 72	62, 77, 95, 112	0
12	CL	122/132 (92%)	-0.03	0 100 100	63, 77, 96, 109	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AM	114/126 (90%)	1.46	34 (29%) 0 0	112, 139, 150, 153	0
13	CM	114/126 (90%)	1.84	41 (35%) 0 0	116, 140, 151, 160	0
14	AN	60/61 (98%)	0.70	8 (13%) 3 1	93, 118, 131, 144	0
14	CN	60/61 (98%)	0.79	8 (13%) 3 1	103, 122, 134, 139	0
15	AO	88/89 (98%)	-0.12	0 100 100	63, 85, 103, 113	0
15	CO	88/89 (98%)	0.02	1 (1%) 80 64	63, 85, 105, 111	0
16	AP	82/88 (93%)	0.56	8 (9%) 7 2	76, 88, 110, 120	0
16	CP	82/88 (93%)	0.33	4 (4%) 29 14	73, 85, 105, 117	0
17	AQ	99/105 (94%)	-0.02	1 (1%) 82 67	68, 82, 102, 106	0
17	CQ	99/105 (94%)	0.08	1 (1%) 82 67	69, 83, 101, 108	0
18	AR	68/88 (77%)	-0.10	2 (2%) 51 28	71, 82, 105, 112	0
18	CR	68/88 (77%)	0.17	1 (1%) 73 54	75, 85, 105, 117	0
19	AS	81/93 (87%)	2.34	37 (45%) 0 0	113, 138, 147, 152	0
19	CS	81/93 (87%)	2.81	44 (54%) 0 0	114, 140, 150, 153	0
20	AT	87/106 (82%)	0.30	0 100 100	75, 88, 103, 111	0
20	CT	97/106 (91%)	0.06	0 100 100	72, 86, 105, 115	0
21	AU	23/27 (85%)	3.23	14 (60%) 0 0	128, 136, 145, 154	0
21	CU	23/27 (85%)	4.11	18 (78%) 0 0	129, 137, 148, 150	0
22	AX	95/101 (94%)	0.18	4 (4%) 36 18	69, 94, 115, 123	0
22	CX	95/101 (94%)	1.08	17 (17%) 1 0	88, 106, 129, 145	0
23	BA	2837/2913 (97%)	-0.26	49 (1%) 70 49	26, 47, 132, 176	0
23	DA	2814/2913 (96%)	-0.41	77 (2%) 54 31	28, 50, 133, 176	0
24	BB	120/122 (98%)	-0.37	0 100 100	43, 72, 93, 110	0
24	DB	120/122 (98%)	-0.14	1 (0%) 86 72	48, 81, 106, 117	0
25	BD	275/276 (99%)	-0.44	0 100 100	29, 45, 63, 113	0
25	DD	275/276 (99%)	-0.44	1 (0%) 92 84	30, 47, 66, 116	0
26	BE	204/206 (99%)	-0.40	0 100 100	28, 49, 72, 95	0
26	DE	204/206 (99%)	-0.42	0 100 100	29, 50, 76, 95	0
27	BF	203/210 (96%)	-0.40	0 100 100	29, 54, 88, 111	0
27	DF	203/210 (96%)	-0.35	0 100 100	31, 59, 90, 112	0
28	BG	181/182 (99%)	-0.03	8 (4%) 34 17	76, 110, 133, 144	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	DG	181/182 (99%)	0.81	25 (13%) 2 1	86, 117, 138, 148	0
29	BH	174/180 (96%)	-0.30	0 100 100	54, 73, 94, 110	0
29	DH	174/180 (96%)	0.33	7 (4%) 38 19	65, 82, 101, 119	0
30	BI	146/148 (98%)	-0.38	1 (0%) 87 75	54, 81, 99, 115	0
30	DI	146/148 (98%)	-0.04	2 (1%) 75 56	56, 89, 108, 120	0
31	BN	140/140 (100%)	-0.38	0 100 100	38, 49, 78, 92	0
31	DN	140/140 (100%)	-0.29	1 (0%) 87 75	40, 54, 82, 96	0
32	BO	122/122 (100%)	-0.41	0 100 100	35, 50, 69, 77	0
32	DO	122/122 (100%)	-0.57	0 100 100	36, 52, 69, 77	0
33	BP	149/150 (99%)	-0.31	0 100 100	30, 58, 89, 105	0
33	DP	149/150 (99%)	-0.18	3 (2%) 65 44	31, 62, 92, 112	0
34	BQ	141/141 (100%)	-0.33	0 100 100	39, 54, 71, 83	0
34	DQ	141/141 (100%)	-0.36	0 100 100	41, 58, 77, 88	0
35	BR	118/118 (100%)	-0.32	0 100 100	34, 44, 58, 77	0
35	DR	118/118 (100%)	-0.32	0 100 100	36, 47, 62, 78	0
36	BS	110/112 (98%)	-0.11	0 100 100	50, 69, 89, 96	0
36	DS	110/112 (98%)	0.29	5 (4%) 33 16	55, 74, 94, 102	0
37	BT	131/146 (89%)	-0.44	0 100 100	43, 55, 92, 119	0
37	DT	131/146 (89%)	-0.36	1 (0%) 86 72	46, 57, 93, 128	0
38	BU	116/118 (98%)	-0.43	0 100 100	32, 44, 62, 71	0
38	DU	116/118 (98%)	-0.51	0 100 100	34, 48, 66, 73	0
39	BV	101/101 (100%)	-0.35	1 (0%) 82 67	29, 56, 79, 103	0
39	DV	101/101 (100%)	-0.23	0 100 100	32, 62, 85, 103	0
40	BW	112/113 (99%)	-0.42	0 100 100	33, 40, 62, 103	0
40	DW	112/113 (99%)	-0.49	0 100 100	35, 42, 67, 105	0
41	BX	95/96 (98%)	-0.28	0 100 100	38, 49, 72, 88	0
41	DX	95/96 (98%)	-0.31	1 (1%) 80 64	41, 52, 77, 90	0
42	BY	107/110 (97%)	-0.29	0 100 100	47, 61, 85, 108	0
42	DY	107/110 (97%)	0.16	6 (5%) 24 11	52, 65, 89, 113	0
43	BZ	201/206 (97%)	-0.42	0 100 100	53, 76, 99, 122	0
43	DZ	198/206 (96%)	0.02	5 (2%) 57 34	62, 81, 102, 121	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	B0	76/85 (89%)	-0.31	0 100 100	39, 48, 64, 91	0
44	D0	76/85 (89%)	0.04	2 (2%) 56 33	43, 52, 66, 92	0
45	B1	97/98 (98%)	-0.23	0 100 100	36, 48, 82, 97	0
45	D1	97/98 (98%)	-0.18	2 (2%) 63 43	36, 51, 83, 98	0
46	B2	70/72 (97%)	-0.26	0 100 100	46, 60, 76, 107	0
46	D2	70/72 (97%)	-0.23	0 100 100	50, 64, 81, 103	0
47	B3	59/60 (98%)	-0.25	0 100 100	38, 49, 86, 97	0
47	D3	59/60 (98%)	0.14	1 (1%) 70 49	41, 53, 93, 102	0
48	B4	46/71 (64%)	-0.30	2 (4%) 35 17	101, 129, 144, 148	0
48	D4	46/71 (64%)	0.46	5 (10%) 5 2	113, 133, 144, 152	0
49	B5	59/60 (98%)	-0.54	0 100 100	30, 45, 66, 80	0
49	D5	59/60 (98%)	-0.54	0 100 100	32, 47, 68, 81	0
50	B6	53/54 (98%)	-0.56	0 100 100	42, 51, 70, 79	0
50	D6	53/54 (98%)	-0.26	2 (3%) 40 20	43, 54, 72, 82	0
51	B7	48/49 (97%)	-0.31	0 100 100	30, 34, 55, 80	0
51	D7	48/49 (97%)	-0.22	0 100 100	32, 35, 58, 84	0
52	B8	64/65 (98%)	-0.27	0 100 100	38, 43, 52, 70	0
52	D8	64/65 (98%)	-0.21	0 100 100	40, 45, 55, 70	0
53	B9	36/37 (97%)	0.24	0 100 100	44, 55, 62, 73	0
53	D9	36/37 (97%)	0.41	1 (2%) 53 30	47, 59, 68, 75	0
All	All	20641/21444 (96%)	-0.05	943 (4%) 32 16	26, 71, 144, 176	0

The worst 5 of 943 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
21	CU	11	GLY	11.7
19	CS	69	HIS	10.9
21	CU	12	LYS	10.2
19	CS	4	SER	10.1
19	AS	33	THR	9.4

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

There are no non-standard protein/DNA/RNA residues in this entry.

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1669	1/1	0.15	0.17	103,103,103,103	0
54	MG	AA	1717	1/1	0.46	0.14	93,93,93,93	0
54	MG	CA	1692	1/1	0.50	0.51	86,86,86,86	0
54	MG	CA	1755	1/1	0.50	0.12	129,129,129,129	0
54	MG	BA	3237	1/1	0.51	0.32	71,71,71,71	0
54	MG	CA	1660	1/1	0.51	0.41	70,70,70,70	0
54	MG	BA	3232	1/1	0.53	0.18	64,64,64,64	0
54	MG	DA	3532	1/1	0.54	0.23	116,116,116,116	0
54	MG	AA	1705	1/1	0.55	0.39	97,97,97,97	0
54	MG	BA	3570	1/1	0.55	0.12	78,78,78,78	0
54	MG	BA	3654	1/1	0.57	0.15	126,126,126,126	0
55	ZN	D4	101	1/1	0.58	0.08	214,214,214,214	0
54	MG	BA	3512	1/1	0.59	0.28	109,109,109,109	0
54	MG	BA	3337	1/1	0.60	0.21	49,49,49,49	0
54	MG	DA	3530	1/1	0.61	0.24	132,132,132,132	0
54	MG	DA	3202	1/1	0.61	0.33	66,66,66,66	0
54	MG	DA	3410	1/1	0.61	0.12	86,86,86,86	0
54	MG	AA	1625	1/1	0.62	0.40	79,79,79,79	0
54	MG	DA	3177	1/1	0.64	0.13	88,88,88,88	0
54	MG	CA	1633	1/1	0.64	0.56	77,77,77,77	0
54	MG	AA	1723	1/1	0.65	0.12	112,112,112,112	0
54	MG	BA	3240	1/1	0.65	0.28	71,71,71,71	0
54	MG	CA	1711	1/1	0.66	0.11	103,103,103,103	0
54	MG	DA	3164	1/1	0.66	0.38	56,56,56,56	0
54	MG	DA	3278	1/1	0.67	0.07	83,83,83,83	0
54	MG	BA	3367	1/1	0.67	0.20	71,71,71,71	0
54	MG	DA	3506	1/1	0.67	0.11	96,96,96,96	0
54	MG	BA	3239	1/1	0.67	0.15	67,67,67,67	0
54	MG	AA	1603	1/1	0.67	0.36	79,79,79,79	0
54	MG	AA	1706	1/1	0.67	0.10	91,91,91,91	0
54	MG	BA	3097	1/1	0.68	0.54	47,47,47,47	0
54	MG	AA	1622	1/1	0.68	0.19	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3593	1/1	0.69	0.21	84,84,84,84	0
54	MG	BA	3600	1/1	0.69	0.07	81,81,81,81	0
54	MG	BA	3554	1/1	0.69	0.10	88,88,88,88	0
54	MG	AA	1614	1/1	0.69	0.50	56,56,56,56	0
54	MG	CA	1757	1/1	0.69	0.25	80,80,80,80	0
54	MG	CE	201	1/1	0.69	0.56	77,77,77,77	0
54	MG	CA	1637	1/1	0.69	0.42	73,73,73,73	0
54	MG	DA	3165	1/1	0.69	0.41	60,60,60,60	0
54	MG	BA	3146	1/1	0.70	0.60	65,65,65,65	0
54	MG	BA	3442	1/1	0.70	0.16	76,76,76,76	0
54	MG	AA	1637	1/1	0.70	0.24	84,84,84,84	0
54	MG	AA	1651	1/1	0.70	0.31	60,60,60,60	0
54	MG	DA	3081	1/1	0.70	0.58	58,58,58,58	0
54	MG	BA	3340	1/1	0.71	0.14	79,79,79,79	0
54	MG	DA	3075	1/1	0.71	0.26	58,58,58,58	0
54	MG	CA	1604	1/1	0.71	0.51	81,81,81,81	0
54	MG	BA	3369	1/1	0.71	0.13	52,52,52,52	0
54	MG	DB	204	1/1	0.71	0.70	74,74,74,74	0
54	MG	DA	3401	1/1	0.71	0.29	108,108,108,108	0
54	MG	DA	3212	1/1	0.72	0.26	75,75,75,75	0
54	MG	CA	1684	1/1	0.72	0.33	91,91,91,91	0
54	MG	BA	3642	1/1	0.72	0.15	139,139,139,139	0
54	MG	CA	1747	1/1	0.73	0.11	95,95,95,95	0
54	MG	AA	1709	1/1	0.73	0.15	101,101,101,101	0
54	MG	AA	1659	1/1	0.73	0.86	70,70,70,70	0
54	MG	DA	3524	1/1	0.73	0.17	79,79,79,79	0
54	MG	DA	3290	1/1	0.74	0.48	58,58,58,58	0
54	MG	BA	3510	1/1	0.74	0.11	56,56,56,56	0
54	MG	AA	1619	1/1	0.74	0.26	86,86,86,86	0
54	MG	CA	1652	1/1	0.74	0.50	76,76,76,76	0
54	MG	BA	3532	1/1	0.74	0.23	79,79,79,79	0
54	MG	DA	3187	1/1	0.74	0.14	71,71,71,71	0
54	MG	AA	1678	1/1	0.74	0.52	74,74,74,74	0
54	MG	DA	3058	1/1	0.74	0.43	58,58,58,58	0
54	MG	AA	1618	1/1	0.74	1.13	94,94,94,94	0
54	MG	BA	3638	1/1	0.75	0.14	67,67,67,67	0
54	MG	CA	1640	1/1	0.75	0.23	82,82,82,82	0
54	MG	BB	223	1/1	0.75	0.14	133,133,133,133	0
54	MG	DA	3331	1/1	0.76	0.13	71,71,71,71	0
54	MG	DA	3342	1/1	0.76	0.18	38,38,38,38	0
54	MG	AA	1607	1/1	0.76	0.19	78,78,78,78	0
54	MG	BA	3317	1/1	0.76	0.17	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1688	1/1	0.76	0.16	96,96,96,96	0
54	MG	BA	3038	1/1	0.76	0.26	76,76,76,76	0
54	MG	BA	3524	1/1	0.76	0.12	38,38,38,38	0
54	MG	BA	3646	1/1	0.76	0.18	142,142,142,142	0
54	MG	DA	3541	1/1	0.76	0.12	130,130,130,130	0
54	MG	BA	3347	1/1	0.76	0.16	94,94,94,94	0
54	MG	AA	1702	1/1	0.76	0.16	68,68,68,68	0
54	MG	AA	1729	1/1	0.77	0.08	80,80,80,80	0
54	MG	BA	3338	1/1	0.77	0.15	62,62,62,62	0
54	MG	DA	3179	1/1	0.77	0.21	68,68,68,68	0
54	MG	BA	3261	1/1	0.77	0.36	34,34,34,34	0
54	MG	CA	1670	1/1	0.77	0.64	73,73,73,73	0
54	MG	BA	3264	1/1	0.77	0.38	41,41,41,41	0
54	MG	BA	3113	1/1	0.77	0.09	60,60,60,60	0
54	MG	DA	3280	1/1	0.77	0.44	58,58,58,58	0
54	MG	CA	1697	1/1	0.77	0.13	57,57,57,57	0
54	MG	BA	3368	1/1	0.77	0.21	53,53,53,53	0
54	MG	CA	1704	1/1	0.78	0.15	92,92,92,92	0
54	MG	DA	3096	1/1	0.78	0.53	59,59,59,59	0
54	MG	DA	3115	1/1	0.78	0.42	59,59,59,59	0
54	MG	BA	3133	1/1	0.78	0.27	53,53,53,53	0
54	MG	BA	3543	1/1	0.78	0.20	119,119,119,119	0
54	MG	AA	1628	1/1	0.78	0.25	68,68,68,68	0
54	MG	DA	3284	1/1	0.79	0.22	55,55,55,55	0
54	MG	BA	3109	1/1	0.79	0.41	62,62,62,62	0
54	MG	DA	3298	1/1	0.79	0.27	49,49,49,49	0
54	MG	CA	1657	1/1	0.79	0.41	61,61,61,61	0
54	MG	DA	3172	1/1	0.79	0.29	64,64,64,64	0
54	MG	BA	3216	1/1	0.79	0.30	43,43,43,43	0
54	MG	BA	3581	1/1	0.79	0.11	86,86,86,86	0
54	MG	BV	201	1/1	0.79	0.22	67,67,67,67	0
54	MG	DA	3196	1/1	0.79	0.39	58,58,58,58	0
54	MG	AA	1704	1/1	0.79	0.16	86,86,86,86	0
54	MG	BA	3236	1/1	0.79	0.23	66,66,66,66	0
54	MG	DA	3239	1/1	0.79	0.55	58,58,58,58	0
54	MG	AA	1719	1/1	0.79	0.16	144,144,144,144	0
54	MG	BA	3238	1/1	0.79	0.36	53,53,53,53	0
54	MG	BA	3582	1/1	0.80	0.23	79,79,79,79	0
54	MG	BA	3477	1/1	0.80	0.11	53,53,53,53	0
54	MG	BA	3014	1/1	0.80	0.54	65,65,65,65	0
54	MG	BA	3616	1/1	0.80	0.28	131,131,131,131	0
54	MG	AA	1692	1/1	0.80	0.57	144,144,144,144	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1667	1/1	0.80	0.33	77,77,77,77	0
54	MG	AA	1697	1/1	0.80	0.20	106,106,106,106	0
54	MG	BA	3241	1/1	0.80	0.23	65,65,65,65	0
54	MG	BA	3102	1/1	0.80	0.34	44,44,44,44	0
54	MG	BA	3547	1/1	0.80	0.24	105,105,105,105	0
54	MG	DA	3466	1/1	0.80	0.15	68,68,68,68	0
54	MG	AA	1699	1/1	0.80	0.20	99,99,99,99	0
54	MG	CA	1705	1/1	0.80	0.14	96,96,96,96	0
54	MG	CA	1706	1/1	0.80	0.10	103,103,103,103	0
54	MG	CA	1707	1/1	0.80	0.19	94,94,94,94	0
54	MG	BA	3287	1/1	0.80	0.42	44,44,44,44	0
54	MG	CA	1720	1/1	0.80	0.14	89,89,89,89	0
54	MG	AA	1690	1/1	0.80	0.09	72,72,72,72	0
54	MG	BA	3234	1/1	0.81	0.14	69,69,69,69	0
54	MG	BA	3627	1/1	0.81	0.10	50,50,50,50	0
54	MG	CA	1753	1/1	0.81	0.14	86,86,86,86	0
54	MG	AA	1731	1/1	0.81	0.17	119,119,119,119	0
54	MG	BA	3544	1/1	0.81	0.15	46,46,46,46	0
54	MG	BA	3645	1/1	0.81	0.09	102,102,102,102	0
54	MG	DA	3055	1/1	0.81	0.32	56,56,56,56	0
54	MG	BA	3394	1/1	0.81	0.15	50,50,50,50	0
54	MG	BA	3648	1/1	0.81	0.11	91,91,91,91	0
54	MG	CA	1686	1/1	0.81	0.21	61,61,61,61	0
54	MG	BA	3403	1/1	0.81	0.15	67,67,67,67	0
54	MG	DA	3361	1/1	0.81	0.10	30,30,30,30	0
54	MG	DA	3110	1/1	0.81	0.31	53,53,53,53	0
54	MG	AA	1671	1/1	0.81	0.34	67,67,67,67	0
54	MG	DA	3424	1/1	0.81	0.10	52,52,52,52	0
54	MG	DA	3134	1/1	0.81	0.28	62,62,62,62	0
54	MG	DA	3478	1/1	0.81	0.17	87,87,87,87	0
54	MG	DA	3149	1/1	0.81	0.37	53,53,53,53	0
54	MG	AA	1646	1/1	0.81	0.22	59,59,59,59	0
54	MG	DA	3525	1/1	0.81	0.16	106,106,106,106	0
54	MG	BA	3269	1/1	0.81	0.48	35,35,35,35	0
54	MG	CA	1608	1/1	0.81	0.53	93,93,93,93	0
54	MG	BA	3358	1/1	0.81	0.12	55,55,55,55	0
54	MG	DA	3591	1/1	0.81	0.11	66,66,66,66	0
54	MG	BA	3074	1/1	0.81	0.44	53,53,53,53	0
54	MG	CA	1714	1/1	0.81	0.15	87,87,87,87	0
54	MG	BA	3577	1/1	0.82	0.13	77,77,77,77	0
54	MG	DA	3297	1/1	0.82	0.22	78,78,78,78	0
54	MG	CA	1626	1/1	0.82	0.39	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1661	1/1	0.82	0.26	55,55,55,55	0
54	MG	CA	1756	1/1	0.82	0.19	80,80,80,80	0
54	MG	BA	3062	1/1	0.82	0.34	45,45,45,45	0
54	MG	CA	1702	1/1	0.82	0.12	64,64,64,64	0
54	MG	DA	3180	1/1	0.82	0.24	49,49,49,49	0
54	MG	BA	3504	1/1	0.82	0.14	65,65,65,65	0
54	MG	BA	3343	1/1	0.82	0.09	73,73,73,73	0
54	MG	DA	3476	1/1	0.82	0.13	66,66,66,66	0
54	MG	DA	3198	1/1	0.82	0.78	57,57,57,57	0
54	MG	AA	1629	1/1	0.82	0.29	44,44,44,44	0
54	MG	BE	305	1/1	0.82	0.16	60,60,60,60	0
54	MG	DA	3220	1/1	0.82	0.24	51,51,51,51	0
54	MG	BA	3562	1/1	0.82	0.13	59,59,59,59	0
54	MG	DA	3246	1/1	0.82	0.38	68,68,68,68	0
54	MG	DA	3268	1/1	0.82	0.59	54,54,54,54	0
54	MG	DA	3590	1/1	0.82	0.23	82,82,82,82	0
54	MG	BA	3016	1/1	0.82	0.23	47,47,47,47	0
54	MG	CA	1717	1/1	0.82	0.14	110,110,110,110	0
54	MG	CA	1681	1/1	0.82	0.40	82,82,82,82	0
54	MG	BA	3141	1/1	0.83	0.30	36,36,36,36	0
54	MG	BA	3090	1/1	0.83	0.12	62,62,62,62	0
54	MG	BA	3649	1/1	0.83	0.22	125,125,125,125	0
54	MG	DA	3167	1/1	0.83	0.21	51,51,51,51	0
54	MG	DA	3309	1/1	0.83	0.40	28,28,28,28	0
54	MG	DA	3170	1/1	0.83	0.13	56,56,56,56	0
54	MG	CA	1664	1/1	0.83	0.08	80,80,80,80	0
54	MG	BA	3370	1/1	0.83	0.23	41,41,41,41	0
54	MG	DA	3371	1/1	0.83	0.26	43,43,43,43	0
54	MG	BA	3531	1/1	0.83	0.09	89,89,89,89	0
54	MG	BA	3149	1/1	0.83	0.28	57,57,57,57	0
54	MG	BS	201	1/1	0.83	0.55	49,49,49,49	0
54	MG	DA	3438	1/1	0.83	0.17	90,90,90,90	0
54	MG	DA	3451	1/1	0.83	0.14	103,103,103,103	0
54	MG	DA	3189	1/1	0.83	0.18	84,84,84,84	0
54	MG	BA	3399	1/1	0.83	0.13	43,43,43,43	0
54	MG	CA	1603	1/1	0.83	0.30	56,56,56,56	0
54	MG	BA	3164	1/1	0.83	0.35	50,50,50,50	0
54	MG	DA	3515	1/1	0.83	0.28	37,37,37,37	0
54	MG	DA	3063	1/1	0.83	0.32	60,60,60,60	0
54	MG	AA	1686	1/1	0.83	0.11	68,68,68,68	0
54	MG	CA	1618	1/1	0.83	0.39	64,64,64,64	0
54	MG	BA	3637	1/1	0.83	0.18	108,108,108,108	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3247	1/1	0.83	0.32	67,67,67,67	0
54	MG	DA	3557	1/1	0.83	0.16	103,103,103,103	0
54	MG	DA	3569	1/1	0.83	0.12	104,104,104,104	0
54	MG	BA	3304	1/1	0.83	0.35	54,54,54,54	0
54	MG	BA	3061	1/1	0.83	0.47	54,54,54,54	0
54	MG	BA	3567	1/1	0.83	0.10	54,54,54,54	0
54	MG	DA	3282	1/1	0.83	0.14	64,64,64,64	0
54	MG	DA	3358	1/1	0.84	0.12	39,39,39,39	0
54	MG	BA	3462	1/1	0.84	0.09	43,43,43,43	0
54	MG	DA	3197	1/1	0.84	0.33	49,49,49,49	0
54	MG	DA	3398	1/1	0.84	0.26	88,88,88,88	0
54	MG	AA	1635	1/1	0.84	0.15	61,61,61,61	0
54	MG	BA	3288	1/1	0.84	0.21	66,66,66,66	0
54	MG	DA	3207	1/1	0.84	0.28	54,54,54,54	0
54	MG	AA	1636	1/1	0.84	0.27	79,79,79,79	0
54	MG	DA	3122	1/1	0.84	0.20	49,49,49,49	0
54	MG	CA	1683	1/1	0.84	0.21	100,100,100,100	0
54	MG	BA	3068	1/1	0.84	0.40	50,50,50,50	0
54	MG	BA	3018	1/1	0.84	0.59	40,40,40,40	0
54	MG	DA	3497	1/1	0.84	0.26	83,83,83,83	0
54	MG	DA	3257	1/1	0.84	0.32	56,56,56,56	0
54	MG	BA	3225	1/1	0.84	0.18	44,44,44,44	0
54	MG	DA	3523	1/1	0.84	0.07	74,74,74,74	0
54	MG	DA	3271	1/1	0.84	0.38	57,57,57,57	0
54	MG	BA	3077	1/1	0.84	0.27	42,42,42,42	0
54	MG	BA	3534	1/1	0.84	0.19	25,25,25,25	0
54	MG	DA	3016	1/1	0.84	0.21	62,62,62,62	0
54	MG	BB	206	1/1	0.84	0.20	57,57,57,57	0
54	MG	DA	3548	1/1	0.84	0.12	89,89,89,89	0
54	MG	BA	3139	1/1	0.84	0.27	46,46,46,46	0
54	MG	AD	302	1/1	0.84	0.29	77,77,77,77	0
54	MG	DA	3587	1/1	0.84	0.24	95,95,95,95	0
54	MG	DA	3065	1/1	0.84	0.14	53,53,53,53	0
54	MG	BP	201	1/1	0.84	0.13	45,45,45,45	0
54	MG	DA	3193	1/1	0.84	0.58	40,40,40,40	0
54	MG	DA	3195	1/1	0.84	0.24	48,48,48,48	0
54	MG	AA	1676	1/1	0.85	0.29	59,59,59,59	0
54	MG	BA	3366	1/1	0.85	0.15	83,83,83,83	0
54	MG	BA	3100	1/1	0.85	0.20	42,42,42,42	0
54	MG	CA	1632	1/1	0.85	0.27	69,69,69,69	0
54	MG	BA	3075	1/1	0.85	0.19	46,46,46,46	0
54	MG	BA	3142	1/1	0.85	0.26	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3353	1/1	0.85	0.20	61,61,61,61	0
54	MG	BA	3104	1/1	0.85	0.23	63,63,63,63	0
54	MG	CA	1645	1/1	0.85	0.93	60,60,60,60	0
54	MG	DA	3185	1/1	0.85	0.16	57,57,57,57	0
54	MG	DA	3397	1/1	0.85	0.19	34,34,34,34	0
54	MG	BA	3385	1/1	0.85	0.15	63,63,63,63	0
54	MG	BA	3388	1/1	0.85	0.10	47,47,47,47	0
54	MG	BA	3329	1/1	0.85	0.19	74,74,74,74	0
54	MG	CA	1661	1/1	0.85	0.63	67,67,67,67	0
54	MG	DA	3434	1/1	0.85	0.14	60,60,60,60	0
54	MG	AA	1712	1/1	0.85	0.34	86,86,86,86	0
54	MG	DA	3024	1/1	0.85	0.35	47,47,47,47	0
54	MG	DA	3454	1/1	0.85	0.08	64,64,64,64	0
54	MG	DA	3025	1/1	0.85	0.27	49,49,49,49	0
54	MG	DA	3028	1/1	0.85	0.31	67,67,67,67	0
54	MG	BA	3658	1/1	0.85	0.14	114,114,114,114	0
54	MG	DA	3488	1/1	0.85	0.17	58,58,58,58	0
54	MG	DA	3209	1/1	0.85	0.25	51,51,51,51	0
54	MG	AA	1663	1/1	0.85	0.52	64,64,64,64	0
54	MG	CA	1677	1/1	0.85	0.15	64,64,64,64	0
54	MG	DA	3222	1/1	0.85	0.22	68,68,68,68	0
54	MG	BA	3424	1/1	0.85	0.21	72,72,72,72	0
54	MG	BA	3339	1/1	0.85	0.11	70,70,70,70	0
54	MG	DA	3526	1/1	0.85	0.12	98,98,98,98	0
54	MG	DA	3528	1/1	0.85	0.17	124,124,124,124	0
54	MG	BG	201	1/1	0.85	0.21	60,60,60,60	0
54	MG	BA	3455	1/1	0.85	0.23	22,22,22,22	0
54	MG	DA	3258	1/1	0.85	0.45	52,52,52,52	0
54	MG	DA	3262	1/1	0.85	0.33	53,53,53,53	0
54	MG	BQ	204	1/1	0.85	0.10	43,43,43,43	0
54	MG	DA	3559	1/1	0.85	0.07	79,79,79,79	0
54	MG	DA	3567	1/1	0.85	0.24	46,46,46,46	0
54	MG	BA	3215	1/1	0.85	0.22	50,50,50,50	0
54	MG	BA	3114	1/1	0.85	0.32	63,63,63,63	0
54	MG	DA	3130	1/1	0.85	0.33	47,47,47,47	0
54	MG	BA	3486	1/1	0.85	0.17	75,75,75,75	0
54	MG	BA	3123	1/1	0.85	0.27	43,43,43,43	0
54	MG	D5	101	1/1	0.85	0.34	52,52,52,52	0
54	MG	D8	102	1/1	0.85	0.28	45,45,45,45	0
55	ZN	AN	101	1/1	0.85	0.12	117,117,117,117	0
54	MG	DA	3289	1/1	0.85	0.58	54,54,54,54	0
54	MG	BB	207	1/1	0.86	0.20	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3043	1/1	0.86	0.12	39,39,39,39	0
54	MG	BA	3503	1/1	0.86	0.10	64,64,64,64	0
54	MG	AA	1707	1/1	0.86	0.17	102,102,102,102	0
54	MG	BA	3587	1/1	0.86	0.14	60,60,60,60	0
54	MG	DA	3059	1/1	0.86	0.22	45,45,45,45	0
54	MG	DA	3433	1/1	0.86	0.12	47,47,47,47	0
54	MG	CA	1679	1/1	0.86	0.50	59,59,59,59	0
54	MG	DA	3436	1/1	0.86	0.14	81,81,81,81	0
54	MG	BQ	201	1/1	0.86	0.19	51,51,51,51	0
54	MG	DA	3442	1/1	0.86	0.13	82,82,82,82	0
54	MG	AA	1654	1/1	0.86	0.52	59,59,59,59	0
54	MG	DA	3452	1/1	0.86	0.10	90,90,90,90	0
54	MG	DA	3223	1/1	0.86	0.18	54,54,54,54	0
54	MG	DA	3465	1/1	0.86	0.08	75,75,75,75	0
54	MG	BA	3107	1/1	0.86	0.20	60,60,60,60	0
54	MG	BA	3609	1/1	0.86	0.10	75,75,75,75	0
54	MG	AA	1627	1/1	0.86	0.33	59,59,59,59	0
54	MG	AA	1674	1/1	0.86	0.32	63,63,63,63	0
54	MG	CA	1606	1/1	0.86	0.23	59,59,59,59	0
54	MG	AA	1718	1/1	0.86	0.05	96,96,96,96	0
54	MG	BA	3408	1/1	0.86	0.22	50,50,50,50	0
54	MG	DA	3521	1/1	0.86	0.12	86,86,86,86	0
54	MG	CA	1621	1/1	0.86	0.56	64,64,64,64	0
54	MG	DA	3277	1/1	0.86	0.17	77,77,77,77	0
54	MG	DA	3153	1/1	0.86	0.42	58,58,58,58	0
54	MG	BA	3414	1/1	0.86	0.13	29,29,29,29	0
54	MG	CA	1627	1/1	0.86	0.37	55,55,55,55	0
54	MG	AA	1647	1/1	0.86	0.23	55,55,55,55	0
54	MG	BA	3437	1/1	0.86	0.11	49,49,49,49	0
54	MG	DA	3537	1/1	0.86	0.09	63,63,63,63	0
54	MG	CA	1635	1/1	0.86	0.10	60,60,60,60	0
54	MG	CA	1738	1/1	0.86	0.08	112,112,112,112	0
54	MG	BA	3279	1/1	0.86	0.49	27,27,27,27	0
54	MG	DA	3308	1/1	0.86	0.31	33,33,33,33	0
54	MG	BA	3557	1/1	0.86	0.15	78,78,78,78	0
54	MG	DA	3312	1/1	0.86	0.52	29,29,29,29	0
54	MG	DA	3324	1/1	0.86	0.13	51,51,51,51	0
54	MG	DA	3328	1/1	0.86	0.40	57,57,57,57	0
54	MG	BA	3128	1/1	0.86	0.18	49,49,49,49	0
54	MG	CA	1649	1/1	0.86	0.41	66,66,66,66	0
54	MG	DR	203	1/1	0.86	0.51	51,51,51,51	0
54	MG	BA	3037	1/1	0.86	0.20	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BB	204	1/1	0.86	0.21	52,52,52,52	0
54	MG	AA	1606	1/1	0.86	0.19	79,79,79,79	0
55	ZN	B4	101	1/1	0.86	0.07	199,199,199,199	0
54	MG	DA	3368	1/1	0.86	0.16	52,52,52,52	0
54	MG	DA	3245	1/1	0.87	0.27	57,57,57,57	0
54	MG	BA	3194	1/1	0.87	0.20	63,63,63,63	0
54	MG	BA	3203	1/1	0.87	0.50	55,55,55,55	0
54	MG	BA	3427	1/1	0.87	0.14	89,89,89,89	0
54	MG	AA	1620	1/1	0.87	0.17	65,65,65,65	0
54	MG	DA	3139	1/1	0.87	0.50	59,59,59,59	0
54	MG	BA	3552	1/1	0.87	0.23	82,82,82,82	0
54	MG	BA	3553	1/1	0.87	0.11	89,89,89,89	0
54	MG	DA	3276	1/1	0.87	0.85	60,60,60,60	0
54	MG	AA	1681	1/1	0.87	0.24	50,50,50,50	0
54	MG	CA	1732	1/1	0.87	0.12	110,110,110,110	0
54	MG	BA	3448	1/1	0.87	0.14	38,38,38,38	0
54	MG	BA	3029	1/1	0.87	0.18	32,32,32,32	0
54	MG	CA	1651	1/1	0.87	0.35	46,46,46,46	0
54	MG	DA	3176	1/1	0.87	0.43	70,70,70,70	0
54	MG	BA	3459	1/1	0.87	0.17	38,38,38,38	0
54	MG	DA	3522	1/1	0.87	0.23	61,61,61,61	0
54	MG	BB	209	1/1	0.87	0.11	60,60,60,60	0
54	MG	AA	1734	1/1	0.87	0.11	96,96,96,96	0
54	MG	CA	1758	1/1	0.87	0.22	84,84,84,84	0
54	MG	AA	1684	1/1	0.87	0.82	60,60,60,60	0
54	MG	DA	3188	1/1	0.87	0.11	69,69,69,69	0
54	MG	DA	3001	1/1	0.87	0.31	48,48,48,48	0
54	MG	BF	302	1/1	0.87	0.24	42,42,42,42	0
54	MG	BA	3579	1/1	0.87	0.09	100,100,100,100	0
54	MG	BA	3580	1/1	0.87	0.15	49,49,49,49	0
54	MG	AA	1609	1/1	0.87	0.27	51,51,51,51	0
54	MG	BA	3143	1/1	0.87	0.21	30,30,30,30	0
54	MG	BA	3333	1/1	0.87	0.19	40,40,40,40	0
54	MG	DA	3563	1/1	0.87	0.15	70,70,70,70	0
54	MG	DA	3364	1/1	0.87	0.13	32,32,32,32	0
54	MG	BA	3084	1/1	0.87	0.11	59,59,59,59	0
54	MG	BA	3048	1/1	0.87	0.18	68,68,68,68	0
54	MG	DA	3589	1/1	0.87	0.12	75,75,75,75	0
54	MG	DA	3391	1/1	0.87	0.09	37,37,37,37	0
54	MG	BA	3514	1/1	0.87	0.12	61,61,61,61	0
54	MG	BA	3523	1/1	0.87	0.11	110,110,110,110	0
54	MG	DA	3221	1/1	0.87	0.47	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3402	1/1	0.87	0.13	44,44,44,44	0
54	MG	BA	3120	1/1	0.87	0.13	51,51,51,51	0
54	MG	DA	3417	1/1	0.87	0.16	31,31,31,31	0
54	MG	BA	3185	1/1	0.87	0.51	51,51,51,51	0
54	MG	BA	3411	1/1	0.87	0.08	63,63,63,63	0
54	MG	CA	1617	1/1	0.88	0.13	87,87,87,87	0
54	MG	CA	1708	1/1	0.88	0.07	80,80,80,80	0
54	MG	BA	3021	1/1	0.88	0.20	44,44,44,44	0
54	MG	BA	3065	1/1	0.88	0.24	41,41,41,41	0
54	MG	BA	3214	1/1	0.88	0.22	52,52,52,52	0
54	MG	AA	1638	1/1	0.88	0.13	53,53,53,53	0
54	MG	DA	3370	1/1	0.88	0.10	32,32,32,32	0
54	MG	BA	3035	1/1	0.88	0.19	45,45,45,45	0
54	MG	DA	3383	1/1	0.88	0.10	54,54,54,54	0
54	MG	BA	3461	1/1	0.88	0.17	79,79,79,79	0
54	MG	BA	3217	1/1	0.88	0.23	41,41,41,41	0
54	MG	CA	1751	1/1	0.88	0.26	61,61,61,61	0
54	MG	DA	3191	1/1	0.88	0.19	51,51,51,51	0
54	MG	BA	3655	1/1	0.88	0.18	104,104,104,104	0
54	MG	BA	3470	1/1	0.88	0.27	60,60,60,60	0
54	MG	CA	1642	1/1	0.88	0.17	87,87,87,87	0
54	MG	BA	3659	1/1	0.88	0.07	81,81,81,81	0
54	MG	BA	3569	1/1	0.88	0.08	69,69,69,69	0
54	MG	DA	3201	1/1	0.88	0.30	49,49,49,49	0
54	MG	DA	3435	1/1	0.88	0.44	57,57,57,57	0
54	MG	CA	1762	1/1	0.88	0.07	156,156,156,156	0
54	MG	BA	3219	1/1	0.88	0.15	46,46,46,46	0
54	MG	BA	3572	1/1	0.88	0.17	63,63,63,63	0
54	MG	DA	3003	1/1	0.88	0.22	46,46,46,46	0
54	MG	DA	3215	1/1	0.88	0.09	49,49,49,49	0
54	MG	DA	3012	1/1	0.88	0.19	30,30,30,30	0
54	MG	DA	3457	1/1	0.88	0.08	64,64,64,64	0
54	MG	BA	3301	1/1	0.88	0.66	75,75,75,75	0
54	MG	BB	213	1/1	0.88	0.14	38,38,38,38	0
54	MG	BB	216	1/1	0.88	0.10	82,82,82,82	0
54	MG	DA	3235	1/1	0.88	0.38	54,54,54,54	0
54	MG	DA	3487	1/1	0.88	0.17	48,48,48,48	0
54	MG	DA	3237	1/1	0.88	0.29	62,62,62,62	0
54	MG	BA	3303	1/1	0.88	0.11	64,64,64,64	0
54	MG	DA	3029	1/1	0.88	0.30	40,40,40,40	0
54	MG	DA	3049	1/1	0.88	0.19	49,49,49,49	0
54	MG	CA	1665	1/1	0.88	0.23	84,84,84,84	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3254	1/1	0.88	0.19	64,64,64,64	0
54	MG	DA	3255	1/1	0.88	0.20	58,58,58,58	0
54	MG	AA	1658	1/1	0.88	0.51	57,57,57,57	0
54	MG	AA	1642	1/1	0.88	0.81	54,54,54,54	0
54	MG	CA	1674	1/1	0.88	0.10	74,74,74,74	0
54	MG	CA	1676	1/1	0.88	0.24	73,73,73,73	0
54	MG	BA	3397	1/1	0.88	0.17	86,86,86,86	0
54	MG	AA	1616	1/1	0.88	0.14	92,92,92,92	0
54	MG	DA	3087	1/1	0.88	0.09	54,54,54,54	0
54	MG	BA	3119	1/1	0.88	0.34	42,42,42,42	0
54	MG	BA	3598	1/1	0.88	0.11	65,65,65,65	0
54	MG	DA	3281	1/1	0.88	0.20	42,42,42,42	0
54	MG	BA	3335	1/1	0.88	0.11	66,66,66,66	0
54	MG	BA	3153	1/1	0.88	0.38	51,51,51,51	0
54	MG	DA	3125	1/1	0.88	0.30	50,50,50,50	0
54	MG	BA	3159	1/1	0.88	0.22	46,46,46,46	0
54	MG	DA	3583	1/1	0.88	0.10	65,65,65,65	0
54	MG	CA	1693	1/1	0.88	0.86	59,59,59,59	0
54	MG	BA	3621	1/1	0.88	0.30	52,52,52,52	0
54	MG	DA	3147	1/1	0.88	0.42	54,54,54,54	0
54	MG	CA	1698	1/1	0.88	0.10	47,47,47,47	0
54	MG	AA	1612	1/1	0.88	0.31	86,86,86,86	0
54	MG	DE	301	1/1	0.88	0.22	41,41,41,41	0
54	MG	DA	3318	1/1	0.88	0.14	58,58,58,58	0
54	MG	DA	3319	1/1	0.88	0.32	57,57,57,57	0
54	MG	AA	1604	1/1	0.88	0.15	73,73,73,73	0
54	MG	DA	3325	1/1	0.88	0.19	38,38,38,38	0
54	MG	CA	1612	1/1	0.88	0.14	65,65,65,65	0
54	MG	CA	1616	1/1	0.88	0.26	58,58,58,58	0
54	MG	DA	3322	1/1	0.89	0.38	49,49,49,49	0
54	MG	BA	3243	1/1	0.89	0.30	42,42,42,42	0
54	MG	DA	3152	1/1	0.89	0.44	61,61,61,61	0
54	MG	CA	1620	1/1	0.89	0.12	58,58,58,58	0
54	MG	DA	3163	1/1	0.89	0.39	30,30,30,30	0
54	MG	BA	3013	1/1	0.89	0.25	49,49,49,49	0
54	MG	CA	1625	1/1	0.89	0.36	63,63,63,63	0
54	MG	BA	3054	1/1	0.89	0.17	34,34,34,34	0
54	MG	CA	1713	1/1	0.89	0.14	73,73,73,73	0
54	MG	BA	3179	1/1	0.89	0.27	37,37,37,37	0
54	MG	CA	1631	1/1	0.89	0.45	48,48,48,48	0
54	MG	BA	3056	1/1	0.89	0.16	57,57,57,57	0
54	MG	CA	1731	1/1	0.89	0.12	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3380	1/1	0.89	0.10	42,42,42,42	0
54	MG	BA	3539	1/1	0.89	0.08	47,47,47,47	0
54	MG	DA	3384	1/1	0.89	0.08	45,45,45,45	0
54	MG	DA	3387	1/1	0.89	0.11	60,60,60,60	0
54	MG	BA	3285	1/1	0.89	0.57	38,38,38,38	0
54	MG	CA	1739	1/1	0.89	0.12	87,87,87,87	0
54	MG	BA	3060	1/1	0.89	0.14	54,54,54,54	0
54	MG	CA	1638	1/1	0.89	0.26	52,52,52,52	0
54	MG	CA	1639	1/1	0.89	0.26	76,76,76,76	0
54	MG	AA	1649	1/1	0.89	0.30	43,43,43,43	0
54	MG	DA	3412	1/1	0.89	0.09	58,58,58,58	0
54	MG	DA	3413	1/1	0.89	0.12	56,56,56,56	0
54	MG	DA	3416	1/1	0.89	0.13	66,66,66,66	0
54	MG	BA	3292	1/1	0.89	0.32	70,70,70,70	0
54	MG	BA	3407	1/1	0.89	0.17	47,47,47,47	0
54	MG	CA	1646	1/1	0.89	0.38	59,59,59,59	0
54	MG	CA	1648	1/1	0.89	0.40	60,60,60,60	0
54	MG	BA	3297	1/1	0.89	0.26	46,46,46,46	0
54	MG	BA	3300	1/1	0.89	0.42	48,48,48,48	0
54	MG	DA	3437	1/1	0.89	0.16	85,85,85,85	0
54	MG	BA	3205	1/1	0.89	0.12	54,54,54,54	0
54	MG	BA	3117	1/1	0.89	0.27	39,39,39,39	0
54	MG	DA	3447	1/1	0.89	0.27	74,74,74,74	0
54	MG	DA	3211	1/1	0.89	0.22	48,48,48,48	0
54	MG	BA	3015	1/1	0.89	0.18	48,48,48,48	0
54	MG	DA	3017	1/1	0.89	0.20	50,50,50,50	0
54	MG	AA	1716	1/1	0.89	0.08	116,116,116,116	0
54	MG	DA	3458	1/1	0.89	0.05	62,62,62,62	0
54	MG	DA	3464	1/1	0.89	0.10	89,89,89,89	0
54	MG	AA	1682	1/1	0.89	0.13	76,76,76,76	0
54	MG	AA	1708	1/1	0.89	0.29	91,91,91,91	0
54	MG	BA	3221	1/1	0.89	0.34	57,57,57,57	0
54	MG	DA	3227	1/1	0.89	0.28	52,52,52,52	0
54	MG	DA	3231	1/1	0.89	0.29	36,36,36,36	0
54	MG	BA	3131	1/1	0.89	0.81	62,62,62,62	0
54	MG	DA	3492	1/1	0.89	0.07	56,56,56,56	0
54	MG	CA	1672	1/1	0.89	0.20	66,66,66,66	0
54	MG	DA	3504	1/1	0.89	0.07	63,63,63,63	0
54	MG	BA	3026	1/1	0.89	0.19	52,52,52,52	0
54	MG	DA	3508	1/1	0.89	0.10	60,60,60,60	0
54	MG	DA	3512	1/1	0.89	0.13	42,42,42,42	0
54	MG	AA	1621	1/1	0.89	0.29	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3517	1/1	0.89	0.24	66,66,66,66	0
54	MG	BA	3030	1/1	0.89	0.20	48,48,48,48	0
54	MG	BT	202	1/1	0.89	0.27	52,52,52,52	0
54	MG	DA	3251	1/1	0.89	0.18	40,40,40,40	0
54	MG	DA	3070	1/1	0.89	0.36	57,57,57,57	0
54	MG	DA	3073	1/1	0.89	0.51	68,68,68,68	0
54	MG	BA	3471	1/1	0.89	0.18	27,27,27,27	0
54	MG	B0	101	1/1	0.89	0.18	39,39,39,39	0
54	MG	DA	3260	1/1	0.89	0.20	41,41,41,41	0
54	MG	BA	3342	1/1	0.89	0.15	32,32,32,32	0
54	MG	DA	3089	1/1	0.89	0.11	52,52,52,52	0
54	MG	DA	3090	1/1	0.89	0.11	53,53,53,53	0
54	MG	DA	3273	1/1	0.89	0.33	50,50,50,50	0
54	MG	DA	3275	1/1	0.89	0.35	47,47,47,47	0
54	MG	DA	3092	1/1	0.89	0.32	41,41,41,41	0
54	MG	BA	3085	1/1	0.89	0.49	52,52,52,52	0
54	MG	DA	3109	1/1	0.89	0.17	59,59,59,59	0
54	MG	AF	201	1/1	0.89	0.20	62,62,62,62	0
54	MG	DA	3576	1/1	0.89	0.09	48,48,48,48	0
54	MG	DA	3582	1/1	0.89	0.24	63,63,63,63	0
54	MG	CA	1607	1/1	0.89	0.20	50,50,50,50	0
54	MG	DA	3119	1/1	0.89	0.33	48,48,48,48	0
54	MG	CA	1694	1/1	0.89	0.17	62,62,62,62	0
54	MG	DA	3287	1/1	0.89	0.27	57,57,57,57	0
54	MG	BA	3353	1/1	0.89	0.21	91,91,91,91	0
54	MG	DA	3596	1/1	0.89	0.19	125,125,125,125	0
54	MG	AQ	201	1/1	0.89	0.25	58,58,58,58	0
54	MG	DA	3132	1/1	0.89	0.43	49,49,49,49	0
54	MG	DE	303	1/1	0.89	0.12	45,45,45,45	0
54	MG	DQ	202	1/1	0.89	0.17	33,33,33,33	0
54	MG	CA	1701	1/1	0.89	0.08	72,72,72,72	0
54	MG	BA	3002	1/1	0.89	0.34	51,51,51,51	0
54	MG	DA	3141	1/1	0.89	0.52	60,60,60,60	0
54	MG	DA	3145	1/1	0.89	0.23	61,61,61,61	0
54	MG	DA	3146	1/1	0.89	0.17	44,44,44,44	0
54	MG	BA	3008	1/1	0.89	0.23	28,28,28,28	0
54	MG	DA	3354	1/1	0.90	0.09	49,49,49,49	0
54	MG	DA	3174	1/1	0.90	0.19	51,51,51,51	0
54	MG	CA	1629	1/1	0.90	0.20	87,87,87,87	0
54	MG	BA	3482	1/1	0.90	0.19	27,27,27,27	0
54	MG	CA	1746	1/1	0.90	0.11	97,97,97,97	0
54	MG	BA	3152	1/1	0.90	0.37	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3346	1/1	0.90	0.12	52,52,52,52	0
54	MG	DA	3372	1/1	0.90	0.15	41,41,41,41	0
54	MG	AA	1655	1/1	0.90	0.46	43,43,43,43	0
54	MG	CA	1636	1/1	0.90	0.36	59,59,59,59	0
54	MG	AA	1689	1/1	0.90	0.06	99,99,99,99	0
54	MG	BA	3007	1/1	0.90	0.30	28,28,28,28	0
54	MG	BA	3175	1/1	0.90	0.14	43,43,43,43	0
54	MG	AA	1644	1/1	0.90	0.33	39,39,39,39	0
54	MG	BA	3073	1/1	0.90	0.42	52,52,52,52	0
54	MG	DA	3400	1/1	0.90	0.17	66,66,66,66	0
54	MG	BA	3525	1/1	0.90	0.14	35,35,35,35	0
54	MG	BA	3267	1/1	0.90	0.33	36,36,36,36	0
54	MG	DA	3408	1/1	0.90	0.15	51,51,51,51	0
54	MG	BA	3010	1/1	0.90	0.22	39,39,39,39	0
54	MG	AA	1670	1/1	0.90	0.32	53,53,53,53	0
54	MG	BA	3076	1/1	0.90	0.22	44,44,44,44	0
54	MG	DA	3020	1/1	0.90	0.18	56,56,56,56	0
54	MG	BA	3393	1/1	0.90	0.19	37,37,37,37	0
54	MG	DA	3421	1/1	0.90	0.10	93,93,93,93	0
54	MG	CA	1656	1/1	0.90	0.31	86,86,86,86	0
54	MG	DA	3213	1/1	0.90	0.33	48,48,48,48	0
54	MG	DA	3214	1/1	0.90	0.24	37,37,37,37	0
54	MG	DA	3027	1/1	0.90	0.35	56,56,56,56	0
54	MG	DA	3218	1/1	0.90	0.65	62,62,62,62	0
54	MG	BB	208	1/1	0.90	0.23	43,43,43,43	0
54	MG	BA	3210	1/1	0.90	0.20	40,40,40,40	0
54	MG	DA	3030	1/1	0.90	0.29	55,55,55,55	0
54	MG	BB	210	1/1	0.90	0.15	60,60,60,60	0
54	MG	BB	211	1/1	0.90	0.21	47,47,47,47	0
54	MG	DA	3229	1/1	0.90	0.30	44,44,44,44	0
54	MG	DA	3230	1/1	0.90	0.20	45,45,45,45	0
54	MG	DA	3456	1/1	0.90	0.08	42,42,42,42	0
54	MG	BA	3212	1/1	0.90	0.21	68,68,68,68	0
54	MG	BB	215	1/1	0.90	0.17	65,65,65,65	0
54	MG	DA	3459	1/1	0.90	0.07	53,53,53,53	0
54	MG	CA	1668	1/1	0.90	0.54	87,87,87,87	0
54	MG	DA	3238	1/1	0.90	0.44	56,56,56,56	0
54	MG	AA	1730	1/1	0.90	0.10	51,51,51,51	0
54	MG	DA	3470	1/1	0.90	0.10	47,47,47,47	0
54	MG	BA	3080	1/1	0.90	0.23	39,39,39,39	0
54	MG	BD	302	1/1	0.90	0.21	28,28,28,28	0
54	MG	DA	3479	1/1	0.90	0.16	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3486	1/1	0.90	0.21	64,64,64,64	0
54	MG	BA	3298	1/1	0.90	0.54	54,54,54,54	0
54	MG	DA	3248	1/1	0.90	0.18	42,42,42,42	0
54	MG	BA	3045	1/1	0.90	0.22	45,45,45,45	0
54	MG	DA	3495	1/1	0.90	0.06	83,83,83,83	0
54	MG	DA	3252	1/1	0.90	0.53	59,59,59,59	0
54	MG	DA	3500	1/1	0.90	0.12	74,74,74,74	0
54	MG	DA	3086	1/1	0.90	0.21	48,48,48,48	0
54	MG	BA	3046	1/1	0.90	0.18	36,36,36,36	0
54	MG	CA	1680	1/1	0.90	0.23	78,78,78,78	0
54	MG	BA	3218	1/1	0.90	0.15	55,55,55,55	0
54	MG	BA	3421	1/1	0.90	0.07	68,68,68,68	0
54	MG	DA	3261	1/1	0.90	0.31	44,44,44,44	0
54	MG	DA	3094	1/1	0.90	0.16	56,56,56,56	0
54	MG	BA	3086	1/1	0.90	0.95	57,57,57,57	0
54	MG	DA	3270	1/1	0.90	0.17	64,64,64,64	0
54	MG	DA	3098	1/1	0.90	0.19	37,37,37,37	0
54	MG	AA	1640	1/1	0.90	0.20	58,58,58,58	0
54	MG	DA	3274	1/1	0.90	0.41	61,61,61,61	0
54	MG	BA	3323	1/1	0.90	0.17	23,23,23,23	0
54	MG	DA	3111	1/1	0.90	0.17	50,50,50,50	0
54	MG	BA	3439	1/1	0.90	0.16	59,59,59,59	0
54	MG	BA	3222	1/1	0.90	0.49	60,60,60,60	0
54	MG	CA	1695	1/1	0.90	0.35	50,50,50,50	0
54	MG	DA	3543	1/1	0.90	0.09	53,53,53,53	0
54	MG	BA	3332	1/1	0.90	0.09	50,50,50,50	0
54	MG	DA	3128	1/1	0.90	0.24	45,45,45,45	0
54	MG	BA	3094	1/1	0.90	0.21	54,54,54,54	0
54	MG	BA	3586	1/1	0.90	0.10	63,63,63,63	0
54	MG	BA	3456	1/1	0.90	0.22	32,32,32,32	0
54	MG	BA	3589	1/1	0.90	0.17	94,94,94,94	0
54	MG	DA	3295	1/1	0.90	0.25	59,59,59,59	0
54	MG	CA	1609	1/1	0.90	0.24	70,70,70,70	0
54	MG	BA	3590	1/1	0.90	0.31	31,31,31,31	0
54	MG	CA	1613	1/1	0.90	0.34	66,66,66,66	0
54	MG	BA	3592	1/1	0.90	0.13	47,47,47,47	0
54	MG	DA	3148	1/1	0.90	0.16	48,48,48,48	0
54	MG	BA	3229	1/1	0.90	0.22	41,41,41,41	0
54	MG	DA	3593	1/1	0.90	0.15	83,83,83,83	0
54	MG	BA	3594	1/1	0.90	0.05	86,86,86,86	0
54	MG	DA	3597	1/1	0.90	0.11	93,93,93,93	0
54	MG	DA	3321	1/1	0.90	0.43	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3231	1/1	0.90	0.11	47,47,47,47	0
54	MG	CA	1716	1/1	0.90	0.16	102,102,102,102	0
54	MG	DF	301	1/1	0.90	0.30	50,50,50,50	0
54	MG	DO	202	1/1	0.90	0.17	39,39,39,39	0
54	MG	AA	1683	1/1	0.90	0.66	58,58,58,58	0
54	MG	DA	3326	1/1	0.90	0.21	46,46,46,46	0
54	MG	BA	3144	1/1	0.90	0.25	46,46,46,46	0
54	MG	CA	1729	1/1	0.90	0.17	81,81,81,81	0
54	MG	AA	1624	1/1	0.90	0.38	70,70,70,70	0
54	MG	DA	3346	1/1	0.90	0.12	35,35,35,35	0
54	MG	AA	1675	1/1	0.90	0.23	76,76,76,76	0
54	MG	BA	3012	1/1	0.91	0.34	27,27,27,27	0
54	MG	BA	3396	1/1	0.91	0.16	29,29,29,29	0
54	MG	DA	3123	1/1	0.91	0.23	53,53,53,53	0
54	MG	BA	3626	1/1	0.91	0.09	64,64,64,64	0
54	MG	DA	3127	1/1	0.91	0.25	56,56,56,56	0
54	MG	BA	3515	1/1	0.91	0.16	72,72,72,72	0
54	MG	BA	3305	1/1	0.91	0.26	69,69,69,69	0
54	MG	AA	1634	1/1	0.91	0.10	56,56,56,56	0
54	MG	CA	1718	1/1	0.91	0.15	83,83,83,83	0
54	MG	DA	3267	1/1	0.91	0.27	54,54,54,54	0
54	MG	DA	3136	1/1	0.91	0.34	62,62,62,62	0
54	MG	BA	3177	1/1	0.91	0.10	57,57,57,57	0
54	MG	BA	3039	1/1	0.91	0.20	32,32,32,32	0
54	MG	BA	3183	1/1	0.91	0.33	29,29,29,29	0
54	MG	AA	1656	1/1	0.91	0.57	59,59,59,59	0
54	MG	AA	1727	1/1	0.91	0.10	61,61,61,61	0
54	MG	BA	3650	1/1	0.91	0.17	88,88,88,88	0
54	MG	CA	1745	1/1	0.91	0.34	116,116,116,116	0
54	MG	DA	3151	1/1	0.91	0.11	43,43,43,43	0
54	MG	BA	3418	1/1	0.91	0.12	49,49,49,49	0
54	MG	BA	3001	1/1	0.91	0.21	43,43,43,43	0
54	MG	CA	1750	1/1	0.91	0.12	78,78,78,78	0
54	MG	BA	3546	1/1	0.91	0.18	73,73,73,73	0
54	MG	BA	3017	1/1	0.91	0.13	31,31,31,31	0
54	MG	DA	3288	1/1	0.91	0.25	39,39,39,39	0
54	MG	DA	3166	1/1	0.91	0.30	45,45,45,45	0
54	MG	CA	1754	1/1	0.91	0.05	74,74,74,74	0
54	MG	DA	3169	1/1	0.91	0.16	45,45,45,45	0
54	MG	DA	3499	1/1	0.91	0.14	67,67,67,67	0
54	MG	BA	3550	1/1	0.91	0.06	87,87,87,87	0
54	MG	BA	3425	1/1	0.91	0.15	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3254	1/1	0.91	0.35	25,25,25,25	0
54	MG	AA	1713	1/1	0.91	0.10	91,91,91,91	0
54	MG	DA	3509	1/1	0.91	0.19	37,37,37,37	0
54	MG	BA	3438	1/1	0.91	0.20	65,65,65,65	0
54	MG	CA	1650	1/1	0.91	0.20	60,60,60,60	0
54	MG	BA	3262	1/1	0.91	0.37	27,27,27,27	0
54	MG	BA	3563	1/1	0.91	0.09	70,70,70,70	0
54	MG	DA	3008	1/1	0.91	0.44	58,58,58,58	0
54	MG	BB	212	1/1	0.91	0.27	60,60,60,60	0
54	MG	BA	3566	1/1	0.91	0.14	44,44,44,44	0
54	MG	BA	3055	1/1	0.91	0.20	53,53,53,53	0
54	MG	BA	3091	1/1	0.91	0.35	40,40,40,40	0
54	MG	BB	218	1/1	0.91	0.09	45,45,45,45	0
54	MG	BB	219	1/1	0.91	0.06	105,105,105,105	0
54	MG	BA	3452	1/1	0.91	0.13	64,64,64,64	0
54	MG	BA	3571	1/1	0.91	0.17	44,44,44,44	0
54	MG	BE	301	1/1	0.91	0.43	34,34,34,34	0
54	MG	DA	3542	1/1	0.91	0.07	83,83,83,83	0
54	MG	BA	3003	1/1	0.91	0.31	74,74,74,74	0
54	MG	DA	3360	1/1	0.91	0.20	37,37,37,37	0
54	MG	DA	3033	1/1	0.91	0.16	66,66,66,66	0
54	MG	BA	3024	1/1	0.91	0.40	41,41,41,41	0
54	MG	DA	3366	1/1	0.91	0.19	31,31,31,31	0
54	MG	BA	3578	1/1	0.91	0.10	44,44,44,44	0
54	MG	BA	3025	1/1	0.91	0.23	48,48,48,48	0
54	MG	BA	3363	1/1	0.91	0.14	64,64,64,64	0
54	MG	BA	3101	1/1	0.91	0.11	37,37,37,37	0
54	MG	BA	3468	1/1	0.91	0.18	24,24,24,24	0
54	MG	DA	3066	1/1	0.91	0.20	62,62,62,62	0
54	MG	BA	3585	1/1	0.91	0.10	52,52,52,52	0
54	MG	BA	3469	1/1	0.91	0.15	40,40,40,40	0
54	MG	AA	1611	1/1	0.91	0.28	83,83,83,83	0
54	MG	CA	1602	1/1	0.91	0.39	62,62,62,62	0
54	MG	AA	1645	1/1	0.91	0.26	60,60,60,60	0
54	MG	AA	1617	1/1	0.91	0.17	45,45,45,45	0
54	MG	BA	3108	1/1	0.91	0.24	51,51,51,51	0
54	MG	DD	301	1/1	0.91	0.22	47,47,47,47	0
54	MG	BA	3377	1/1	0.91	0.22	32,32,32,32	0
54	MG	BA	3154	1/1	0.91	0.37	50,50,50,50	0
54	MG	CA	1700	1/1	0.91	0.09	70,70,70,70	0
54	MG	BA	3230	1/1	0.91	0.19	30,30,30,30	0
54	MG	DP	201	1/1	0.91	0.18	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3507	1/1	0.91	0.28	41,41,41,41	0
54	MG	BA	3601	1/1	0.91	0.15	76,76,76,76	0
54	MG	CA	1615	1/1	0.91	0.12	65,65,65,65	0
54	MG	DA	3419	1/1	0.91	0.11	44,44,44,44	0
54	MG	BA	3011	1/1	0.91	0.29	26,26,26,26	0
54	MG	BA	3612	1/1	0.91	0.07	59,59,59,59	0
54	MG	DA	3431	1/1	0.91	0.10	59,59,59,59	0
54	MG	BA	3641	1/1	0.92	0.22	72,72,72,72	0
54	MG	DA	3411	1/1	0.92	0.11	49,49,49,49	0
54	MG	BA	3171	1/1	0.92	0.32	31,31,31,31	0
54	MG	BA	3318	1/1	0.92	0.20	35,35,35,35	0
54	MG	DA	3100	1/1	0.92	0.22	38,38,38,38	0
54	MG	DA	3236	1/1	0.92	0.30	47,47,47,47	0
54	MG	DA	3103	1/1	0.92	0.17	54,54,54,54	0
54	MG	BA	3536	1/1	0.92	0.08	68,68,68,68	0
54	MG	BA	3410	1/1	0.92	0.08	77,77,77,77	0
54	MG	DA	3427	1/1	0.92	0.06	59,59,59,59	0
54	MG	DA	3244	1/1	0.92	0.52	33,33,33,33	0
54	MG	DA	3432	1/1	0.92	0.10	70,70,70,70	0
54	MG	BA	3233	1/1	0.92	0.44	41,41,41,41	0
54	MG	BA	3124	1/1	0.92	0.19	33,33,33,33	0
54	MG	DA	3116	1/1	0.92	0.20	43,43,43,43	0
54	MG	BA	3330	1/1	0.92	0.13	34,34,34,34	0
54	MG	DA	3120	1/1	0.92	0.26	43,43,43,43	0
54	MG	BA	3331	1/1	0.92	0.15	48,48,48,48	0
54	MG	BA	3656	1/1	0.92	0.16	68,68,68,68	0
54	MG	DA	3444	1/1	0.92	0.14	41,41,41,41	0
54	MG	DA	3445	1/1	0.92	0.17	42,42,42,42	0
54	MG	CA	1634	1/1	0.92	0.18	64,64,64,64	0
54	MG	BA	3422	1/1	0.92	0.17	76,76,76,76	0
54	MG	AA	1679	1/1	0.92	0.22	44,44,44,44	0
54	MG	DA	3129	1/1	0.92	0.13	61,61,61,61	0
54	MG	BB	202	1/1	0.92	0.12	43,43,43,43	0
54	MG	AA	1613	1/1	0.92	0.19	65,65,65,65	0
54	MG	DA	3266	1/1	0.92	0.32	47,47,47,47	0
54	MG	BB	205	1/1	0.92	0.38	45,45,45,45	0
54	MG	DA	3460	1/1	0.92	0.19	65,65,65,65	0
54	MG	BA	3132	1/1	0.92	0.12	33,33,33,33	0
54	MG	BA	3431	1/1	0.92	0.08	71,71,71,71	0
54	MG	AA	1632	1/1	0.92	0.22	71,71,71,71	0
54	MG	DA	3142	1/1	0.92	0.21	37,37,37,37	0
54	MG	DA	3144	1/1	0.92	0.46	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3191	1/1	0.92	0.27	40,40,40,40	0
54	MG	BA	3564	1/1	0.92	0.11	59,59,59,59	0
54	MG	DA	3481	1/1	0.92	0.44	61,61,61,61	0
54	MG	BA	3193	1/1	0.92	0.67	35,35,35,35	0
54	MG	BA	3134	1/1	0.92	0.43	41,41,41,41	0
54	MG	BA	3196	1/1	0.92	0.17	46,46,46,46	0
54	MG	DA	3489	1/1	0.92	0.14	79,79,79,79	0
54	MG	BA	3197	1/1	0.92	0.35	41,41,41,41	0
54	MG	CA	1759	1/1	0.92	0.22	69,69,69,69	0
54	MG	BA	3137	1/1	0.92	0.22	38,38,38,38	0
54	MG	DA	3162	1/1	0.92	0.35	35,35,35,35	0
54	MG	BA	3138	1/1	0.92	0.35	42,42,42,42	0
54	MG	CQ	201	1/1	0.92	0.35	62,62,62,62	0
54	MG	BA	3458	1/1	0.92	0.17	35,35,35,35	0
54	MG	AA	1664	1/1	0.92	0.14	57,57,57,57	0
54	MG	BA	3356	1/1	0.92	0.17	29,29,29,29	0
54	MG	BA	3103	1/1	0.92	0.20	29,29,29,29	0
54	MG	DA	3513	1/1	0.92	0.14	34,34,34,34	0
54	MG	DA	3305	1/1	0.92	0.22	35,35,35,35	0
54	MG	DA	3306	1/1	0.92	0.35	29,29,29,29	0
54	MG	AA	1633	1/1	0.92	0.28	62,62,62,62	0
54	MG	AA	1677	1/1	0.92	0.32	62,62,62,62	0
54	MG	BA	3584	1/1	0.92	0.11	42,42,42,42	0
54	MG	DA	3175	1/1	0.92	0.36	44,44,44,44	0
54	MG	DA	3022	1/1	0.92	0.16	34,34,34,34	0
54	MG	BA	3083	1/1	0.92	0.18	43,43,43,43	0
54	MG	CA	1673	1/1	0.92	0.60	57,57,57,57	0
54	MG	BA	3019	1/1	0.92	0.18	34,34,34,34	0
54	MG	BA	3290	1/1	0.92	0.17	63,63,63,63	0
54	MG	BA	3020	1/1	0.92	0.09	82,82,82,82	0
54	MG	DA	3538	1/1	0.92	0.14	87,87,87,87	0
54	MG	BT	201	1/1	0.92	0.15	53,53,53,53	0
54	MG	DA	3329	1/1	0.92	0.13	41,41,41,41	0
54	MG	DA	3031	1/1	0.92	0.23	53,53,53,53	0
54	MG	DA	3544	1/1	0.92	0.06	72,72,72,72	0
54	MG	DA	3545	1/1	0.92	0.08	82,82,82,82	0
54	MG	DA	3332	1/1	0.92	0.23	53,53,53,53	0
54	MG	DA	3556	1/1	0.92	0.06	56,56,56,56	0
54	MG	BA	3150	1/1	0.92	0.12	42,42,42,42	0
54	MG	DA	3343	1/1	0.92	0.06	37,37,37,37	0
54	MG	DA	3048	1/1	0.92	0.25	40,40,40,40	0
54	MG	DA	3352	1/1	0.92	0.11	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3496	1/1	0.92	0.17	39,39,39,39	0
54	MG	AA	1660	1/1	0.92	0.51	80,80,80,80	0
54	MG	B5	103	1/1	0.92	0.08	57,57,57,57	0
54	MG	BA	3040	1/1	0.92	0.34	30,30,30,30	0
54	MG	DA	3200	1/1	0.92	0.24	34,34,34,34	0
54	MG	DA	3060	1/1	0.92	0.34	41,41,41,41	0
54	MG	BA	3390	1/1	0.92	0.08	62,62,62,62	0
54	MG	BA	3067	1/1	0.92	0.18	43,43,43,43	0
54	MG	CA	1605	1/1	0.92	0.34	67,67,67,67	0
54	MG	BA	3022	1/1	0.92	0.27	46,46,46,46	0
54	MG	BA	3162	1/1	0.92	0.35	42,42,42,42	0
54	MG	DB	202	1/1	0.92	0.21	50,50,50,50	0
54	MG	DA	3378	1/1	0.92	0.15	33,33,33,33	0
54	MG	DA	3074	1/1	0.92	0.19	54,54,54,54	0
54	MG	DA	3382	1/1	0.92	0.23	53,53,53,53	0
54	MG	BA	3096	1/1	0.92	0.43	47,47,47,47	0
54	MG	BA	3516	1/1	0.92	0.25	63,63,63,63	0
54	MG	BA	3306	1/1	0.92	0.18	55,55,55,55	0
54	MG	BA	3400	1/1	0.92	0.21	47,47,47,47	0
54	MG	BA	3308	1/1	0.92	0.17	52,52,52,52	0
54	MG	DR	202	1/1	0.92	0.37	34,34,34,34	0
54	MG	BA	3526	1/1	0.92	0.13	22,22,22,22	0
54	MG	BA	3405	1/1	0.92	0.15	61,61,61,61	0
54	MG	DA	3225	1/1	0.92	0.50	51,51,51,51	0
54	MG	DA	3093	1/1	0.92	0.27	56,56,56,56	0
55	ZN	BY	201	1/1	0.92	0.11	69,69,69,69	0
54	MG	DA	3228	1/1	0.92	0.48	40,40,40,40	0
54	MG	DA	3409	1/1	0.92	0.09	73,73,73,73	0
54	MG	DA	3040	1/1	0.93	0.26	48,48,48,48	0
54	MG	DA	3204	1/1	0.93	0.44	43,43,43,43	0
54	MG	DA	3042	1/1	0.93	0.23	33,33,33,33	0
54	MG	DA	3046	1/1	0.93	0.19	42,42,42,42	0
54	MG	BA	3050	1/1	0.93	0.22	35,35,35,35	0
54	MG	DA	3407	1/1	0.93	0.06	70,70,70,70	0
54	MG	BA	3161	1/1	0.93	0.18	40,40,40,40	0
54	MG	BA	3348	1/1	0.93	0.08	59,59,59,59	0
54	MG	BA	3565	1/1	0.93	0.07	68,68,68,68	0
54	MG	BA	3280	1/1	0.93	0.30	46,46,46,46	0
54	MG	BA	3444	1/1	0.93	0.11	53,53,53,53	0
54	MG	DA	3061	1/1	0.93	0.17	32,32,32,32	0
54	MG	BD	301	1/1	0.93	0.46	49,49,49,49	0
54	MG	BA	3355	1/1	0.93	0.14	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3450	1/1	0.93	0.10	38,38,38,38	0
54	MG	BE	302	1/1	0.93	0.20	41,41,41,41	0
54	MG	BA	3053	1/1	0.93	0.44	57,57,57,57	0
54	MG	AA	1643	1/1	0.93	0.59	47,47,47,47	0
54	MG	BA	3574	1/1	0.93	0.31	33,33,33,33	0
54	MG	DA	3077	1/1	0.93	0.17	49,49,49,49	0
54	MG	BA	3359	1/1	0.93	0.11	70,70,70,70	0
54	MG	DA	3085	1/1	0.93	0.21	43,43,43,43	0
54	MG	BA	3170	1/1	0.93	0.22	29,29,29,29	0
54	MG	BQ	202	1/1	0.93	0.21	34,34,34,34	0
54	MG	AA	1623	1/1	0.93	0.17	74,74,74,74	0
54	MG	BA	3291	1/1	0.93	0.13	39,39,39,39	0
54	MG	DA	3091	1/1	0.93	0.17	55,55,55,55	0
54	MG	DA	3443	1/1	0.93	0.11	75,75,75,75	0
54	MG	BA	3005	1/1	0.93	0.28	60,60,60,60	0
54	MG	BA	3295	1/1	0.93	0.58	54,54,54,54	0
54	MG	BA	3583	1/1	0.93	0.15	34,34,34,34	0
54	MG	DA	3450	1/1	0.93	0.10	67,67,67,67	0
54	MG	DA	3095	1/1	0.93	0.24	53,53,53,53	0
54	MG	BA	3176	1/1	0.93	0.16	60,60,60,60	0
54	MG	BA	3373	1/1	0.93	0.08	44,44,44,44	0
54	MG	BA	3374	1/1	0.93	0.08	34,34,34,34	0
54	MG	BA	3474	1/1	0.93	0.08	37,37,37,37	0
54	MG	DA	3256	1/1	0.93	0.24	52,52,52,52	0
54	MG	BA	3105	1/1	0.93	0.36	28,28,28,28	0
54	MG	BA	3478	1/1	0.93	0.16	41,41,41,41	0
54	MG	DA	3461	1/1	0.93	0.14	41,41,41,41	0
54	MG	DA	3259	1/1	0.93	0.19	43,43,43,43	0
54	MG	BA	3479	1/1	0.93	0.18	32,32,32,32	0
54	MG	DA	3113	1/1	0.93	0.41	59,59,59,59	0
54	MG	DA	3469	1/1	0.93	0.07	56,56,56,56	0
54	MG	AA	1657	1/1	0.93	0.39	58,58,58,58	0
54	MG	DA	3263	1/1	0.93	0.20	40,40,40,40	0
54	MG	DA	3264	1/1	0.93	0.45	61,61,61,61	0
54	MG	BA	3180	1/1	0.93	0.28	41,41,41,41	0
54	MG	DA	3117	1/1	0.93	0.17	47,47,47,47	0
54	MG	BA	3492	1/1	0.93	0.21	27,27,27,27	0
54	MG	CA	1712	1/1	0.93	0.29	87,87,87,87	0
54	MG	CA	1610	1/1	0.93	0.29	60,60,60,60	0
54	MG	DA	3272	1/1	0.93	0.39	30,30,30,30	0
54	MG	CA	1611	1/1	0.93	0.22	43,43,43,43	0
54	MG	BA	3181	1/1	0.93	0.20	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	AA	1714	1/1	0.93	0.25	57,57,57,57	0
54	MG	BA	3041	1/1	0.93	0.26	40,40,40,40	0
54	MG	BA	3111	1/1	0.93	0.20	56,56,56,56	0
54	MG	DA	3503	1/1	0.93	0.24	34,34,34,34	0
54	MG	BA	3063	1/1	0.93	0.12	54,54,54,54	0
54	MG	DA	3505	1/1	0.93	0.13	91,91,91,91	0
54	MG	BA	3398	1/1	0.93	0.14	52,52,52,52	0
54	MG	DA	3133	1/1	0.93	0.38	36,36,36,36	0
54	MG	BA	3622	1/1	0.93	0.11	45,45,45,45	0
54	MG	DA	3283	1/1	0.93	0.18	61,61,61,61	0
54	MG	CA	1737	1/1	0.93	0.13	89,89,89,89	0
54	MG	DA	3137	1/1	0.93	0.11	38,38,38,38	0
54	MG	BA	3311	1/1	0.93	0.17	24,24,24,24	0
54	MG	BA	3009	1/1	0.93	0.29	45,45,45,45	0
54	MG	CA	1740	1/1	0.93	0.40	68,68,68,68	0
54	MG	BA	3115	1/1	0.93	0.12	45,45,45,45	0
54	MG	DA	3296	1/1	0.93	0.09	67,67,67,67	0
54	MG	BA	3519	1/1	0.93	0.05	64,64,64,64	0
54	MG	CA	1628	1/1	0.93	0.09	75,75,75,75	0
54	MG	BA	3522	1/1	0.93	0.11	74,74,74,74	0
54	MG	BA	3404	1/1	0.93	0.10	45,45,45,45	0
54	MG	BA	3147	1/1	0.93	0.11	55,55,55,55	0
54	MG	DA	3536	1/1	0.93	0.16	51,51,51,51	0
54	MG	BA	3201	1/1	0.93	0.33	31,31,31,31	0
54	MG	BA	3027	1/1	0.93	0.15	38,38,38,38	0
54	MG	DA	3314	1/1	0.93	0.39	43,43,43,43	0
54	MG	DA	3316	1/1	0.93	0.73	69,69,69,69	0
54	MG	BA	3250	1/1	0.93	0.40	26,26,26,26	0
54	MG	BA	3252	1/1	0.93	0.32	36,36,36,36	0
54	MG	BA	3204	1/1	0.93	0.13	38,38,38,38	0
54	MG	BA	3417	1/1	0.93	0.08	48,48,48,48	0
54	MG	DA	3550	1/1	0.93	0.13	58,58,58,58	0
54	MG	DA	3555	1/1	0.93	0.14	56,56,56,56	0
54	MG	BA	3538	1/1	0.93	0.11	66,66,66,66	0
54	MG	BA	3256	1/1	0.93	0.34	23,23,23,23	0
54	MG	DA	3558	1/1	0.93	0.15	36,36,36,36	0
54	MG	BA	3257	1/1	0.93	0.41	23,23,23,23	0
54	MG	CA	1643	1/1	0.93	0.22	70,70,70,70	0
54	MG	DA	3565	1/1	0.93	0.20	34,34,34,34	0
54	MG	DA	3002	1/1	0.93	0.12	69,69,69,69	0
54	MG	DA	3171	1/1	0.93	0.17	61,61,61,61	0
54	MG	DA	3571	1/1	0.93	0.14	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3660	1/1	0.93	0.13	104,104,104,104	0
54	MG	DA	3333	1/1	0.93	0.15	37,37,37,37	0
54	MG	DA	3339	1/1	0.93	0.07	44,44,44,44	0
54	MG	DA	3586	1/1	0.93	0.14	49,49,49,49	0
54	MG	DA	3340	1/1	0.93	0.12	45,45,45,45	0
54	MG	DA	3588	1/1	0.93	0.18	34,34,34,34	0
54	MG	DA	3004	1/1	0.93	0.07	88,88,88,88	0
54	MG	BA	3258	1/1	0.93	0.37	55,55,55,55	0
54	MG	AA	1601	1/1	0.93	0.28	55,55,55,55	0
54	MG	DA	3592	1/1	0.93	0.06	83,83,83,83	0
54	MG	DA	3015	1/1	0.93	0.13	38,38,38,38	0
54	MG	DA	3595	1/1	0.93	0.12	58,58,58,58	0
54	MG	BA	3095	1/1	0.93	0.19	48,48,48,48	0
54	MG	BA	3548	1/1	0.93	0.13	29,29,29,29	0
54	MG	DA	3019	1/1	0.93	0.16	40,40,40,40	0
54	MG	DA	3186	1/1	0.93	0.13	54,54,54,54	0
54	MG	BA	3072	1/1	0.93	0.10	59,59,59,59	0
54	MG	DA	3021	1/1	0.93	0.13	51,51,51,51	0
54	MG	AA	1605	1/1	0.93	0.17	66,66,66,66	0
54	MG	CA	1655	1/1	0.93	0.22	98,98,98,98	0
54	MG	DA	3192	1/1	0.93	0.17	50,50,50,50	0
54	MG	BA	3432	1/1	0.93	0.04	67,67,67,67	0
54	MG	DA	3194	1/1	0.93	0.23	37,37,37,37	0
54	MG	DA	3375	1/1	0.93	0.14	31,31,31,31	0
54	MG	BA	3433	1/1	0.93	0.09	55,55,55,55	0
54	MG	CA	1658	1/1	0.93	0.34	58,58,58,58	0
54	MG	BA	3436	1/1	0.93	0.13	70,70,70,70	0
54	MG	BA	3559	1/1	0.93	0.07	71,71,71,71	0
54	MG	DA	3199	1/1	0.93	0.18	44,44,44,44	0
54	MG	CA	1662	1/1	0.93	0.39	75,75,75,75	0
55	ZN	CD	301	1/1	0.93	0.26	71,71,71,71	0
54	MG	CA	1663	1/1	0.93	0.33	64,64,64,64	0
54	MG	BA	3036	1/1	0.94	0.12	36,36,36,36	0
54	MG	DA	3414	1/1	0.94	0.17	51,51,51,51	0
54	MG	CA	1682	1/1	0.94	0.13	58,58,58,58	0
54	MG	AA	1662	1/1	0.94	0.12	58,58,58,58	0
54	MG	BA	3379	1/1	0.94	0.09	22,22,22,22	0
54	MG	CA	1685	1/1	0.94	0.34	71,71,71,71	0
54	MG	BA	3382	1/1	0.94	0.19	100,100,100,100	0
54	MG	DA	3426	1/1	0.94	0.07	81,81,81,81	0
54	MG	BA	3383	1/1	0.94	0.13	70,70,70,70	0
54	MG	BA	3182	1/1	0.94	0.41	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3473	1/1	0.94	0.23	30,30,30,30	0
54	MG	BA	3387	1/1	0.94	0.06	63,63,63,63	0
54	MG	BZ	301	1/1	0.94	0.17	55,55,55,55	0
54	MG	BA	3110	1/1	0.94	0.20	66,66,66,66	0
54	MG	B0	103	1/1	0.94	0.12	89,89,89,89	0
54	MG	B3	101	1/1	0.94	0.35	51,51,51,51	0
54	MG	BA	3235	1/1	0.94	0.20	50,50,50,50	0
54	MG	DA	3250	1/1	0.94	0.17	49,49,49,49	0
54	MG	CA	1703	1/1	0.94	0.18	56,56,56,56	0
54	MG	DA	3099	1/1	0.94	0.23	36,36,36,36	0
54	MG	B8	102	1/1	0.94	0.10	61,61,61,61	0
54	MG	BA	3004	1/1	0.94	0.08	76,76,76,76	0
54	MG	BA	3481	1/1	0.94	0.16	25,25,25,25	0
54	MG	BA	3189	1/1	0.94	0.32	41,41,41,41	0
54	MG	BA	3088	1/1	0.94	0.19	33,33,33,33	0
54	MG	CA	1710	1/1	0.94	0.09	48,48,48,48	0
54	MG	BA	3488	1/1	0.94	0.17	24,24,24,24	0
54	MG	BA	3490	1/1	0.94	0.10	28,28,28,28	0
54	MG	AA	1694	1/1	0.94	0.08	80,80,80,80	0
54	MG	BA	3495	1/1	0.94	0.13	35,35,35,35	0
54	MG	AA	1732	1/1	0.94	0.10	94,94,94,94	0
54	MG	DA	3265	1/1	0.94	0.32	44,44,44,44	0
54	MG	DA	3462	1/1	0.94	0.12	51,51,51,51	0
54	MG	BA	3195	1/1	0.94	0.22	60,60,60,60	0
54	MG	BA	3607	1/1	0.94	0.17	99,99,99,99	0
54	MG	BA	3242	1/1	0.94	0.20	38,38,38,38	0
54	MG	DA	3468	1/1	0.94	0.07	53,53,53,53	0
54	MG	DA	3126	1/1	0.94	0.59	63,63,63,63	0
54	MG	CA	1614	1/1	0.94	0.43	85,85,85,85	0
54	MG	DA	3473	1/1	0.94	0.20	38,38,38,38	0
54	MG	BA	3401	1/1	0.94	0.14	58,58,58,58	0
54	MG	DA	3477	1/1	0.94	0.15	53,53,53,53	0
54	MG	BA	3613	1/1	0.94	0.07	65,65,65,65	0
54	MG	CA	1735	1/1	0.94	0.27	69,69,69,69	0
54	MG	BA	3615	1/1	0.94	0.12	52,52,52,52	0
54	MG	DA	3482	1/1	0.94	0.19	56,56,56,56	0
54	MG	DA	3484	1/1	0.94	0.07	64,64,64,64	0
54	MG	AA	1733	1/1	0.94	0.07	78,78,78,78	0
54	MG	BA	3249	1/1	0.94	0.35	25,25,25,25	0
54	MG	AA	1626	1/1	0.94	0.42	71,71,71,71	0
54	MG	CA	1622	1/1	0.94	0.28	47,47,47,47	0
54	MG	DA	3491	1/1	0.94	0.19	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3623	1/1	0.94	0.12	73,73,73,73	0
54	MG	DA	3494	1/1	0.94	0.14	37,37,37,37	0
54	MG	BA	3406	1/1	0.94	0.06	66,66,66,66	0
54	MG	AA	1735	1/1	0.94	0.17	110,110,110,110	0
54	MG	BA	3122	1/1	0.94	0.31	49,49,49,49	0
54	MG	CA	1752	1/1	0.94	0.13	71,71,71,71	0
54	MG	BA	3520	1/1	0.94	0.14	95,95,95,95	0
54	MG	CA	1630	1/1	0.94	0.62	72,72,72,72	0
54	MG	AC	301	1/1	0.94	0.14	57,57,57,57	0
54	MG	DA	3291	1/1	0.94	0.33	53,53,53,53	0
54	MG	DA	3292	1/1	0.94	0.27	33,33,33,33	0
54	MG	DA	3293	1/1	0.94	0.25	33,33,33,33	0
54	MG	DA	3510	1/1	0.94	0.10	74,74,74,74	0
54	MG	DA	3294	1/1	0.94	0.15	42,42,42,42	0
54	MG	BA	3336	1/1	0.94	0.12	45,45,45,45	0
54	MG	DA	3514	1/1	0.94	0.19	42,42,42,42	0
54	MG	BA	3643	1/1	0.94	0.11	59,59,59,59	0
54	MG	BA	3413	1/1	0.94	0.12	57,57,57,57	0
54	MG	BA	3155	1/1	0.94	0.19	41,41,41,41	0
54	MG	DA	3304	1/1	0.94	0.42	29,29,29,29	0
54	MG	DA	3159	1/1	0.94	0.20	45,45,45,45	0
54	MG	BA	3207	1/1	0.94	0.13	33,33,33,33	0
54	MG	BA	3528	1/1	0.94	0.17	39,39,39,39	0
54	MG	BA	3098	1/1	0.94	0.24	40,40,40,40	0
54	MG	DA	3527	1/1	0.94	0.15	91,91,91,91	0
54	MG	BA	3653	1/1	0.94	0.15	104,104,104,104	0
54	MG	AA	1615	1/1	0.94	0.36	54,54,54,54	0
54	MG	BA	3341	1/1	0.94	0.05	44,44,44,44	0
54	MG	DA	3317	1/1	0.94	0.23	47,47,47,47	0
54	MG	BA	3535	1/1	0.94	0.11	55,55,55,55	0
54	MG	BA	3129	1/1	0.94	0.37	37,37,37,37	0
54	MG	DA	3539	1/1	0.94	0.09	67,67,67,67	0
54	MG	DA	3540	1/1	0.94	0.10	53,53,53,53	0
54	MG	DA	3011	1/1	0.94	0.26	42,42,42,42	0
54	MG	AA	1722	1/1	0.94	0.18	66,66,66,66	0
54	MG	DA	3173	1/1	0.94	0.13	52,52,52,52	0
54	MG	BA	3426	1/1	0.94	0.08	37,37,37,37	0
54	MG	BA	3542	1/1	0.94	0.11	83,83,83,83	0
54	MG	BA	3268	1/1	0.94	0.37	27,27,27,27	0
54	MG	BA	3428	1/1	0.94	0.09	56,56,56,56	0
54	MG	DA	3551	1/1	0.94	0.20	62,62,62,62	0
54	MG	BA	3165	1/1	0.94	0.28	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1653	1/1	0.94	0.80	57,57,57,57	0
54	MG	DA	3182	1/1	0.94	0.31	46,46,46,46	0
54	MG	DA	3184	1/1	0.94	0.15	46,46,46,46	0
54	MG	BA	3272	1/1	0.94	0.37	31,31,31,31	0
54	MG	DA	3561	1/1	0.94	0.19	71,71,71,71	0
54	MG	BA	3349	1/1	0.94	0.10	36,36,36,36	0
54	MG	BA	3435	1/1	0.94	0.15	48,48,48,48	0
54	MG	DA	3344	1/1	0.94	0.09	30,30,30,30	0
54	MG	DA	3568	1/1	0.94	0.11	78,78,78,78	0
54	MG	BA	3273	1/1	0.94	0.40	37,37,37,37	0
54	MG	BA	3354	1/1	0.94	0.09	37,37,37,37	0
54	MG	DA	3190	1/1	0.94	0.09	59,59,59,59	0
54	MG	DA	3579	1/1	0.94	0.08	57,57,57,57	0
54	MG	BA	3169	1/1	0.94	0.23	31,31,31,31	0
54	MG	DA	3356	1/1	0.94	0.16	60,60,60,60	0
54	MG	DA	3584	1/1	0.94	0.30	48,48,48,48	0
54	MG	DA	3357	1/1	0.94	0.19	36,36,36,36	0
54	MG	BA	3555	1/1	0.94	0.12	47,47,47,47	0
54	MG	AA	1673	1/1	0.94	0.59	60,60,60,60	0
54	MG	BA	3281	1/1	0.94	0.25	24,24,24,24	0
54	MG	DA	3035	1/1	0.94	0.17	60,60,60,60	0
54	MG	AA	1666	1/1	0.94	0.13	74,74,74,74	0
54	MG	CA	1666	1/1	0.94	0.37	64,64,64,64	0
54	MG	DA	3044	1/1	0.94	0.19	46,46,46,46	0
54	MG	BA	3446	1/1	0.94	0.15	30,30,30,30	0
54	MG	DA	3047	1/1	0.94	0.15	38,38,38,38	0
54	MG	BB	221	1/1	0.94	0.06	50,50,50,50	0
54	MG	CA	1669	1/1	0.94	0.30	76,76,76,76	0
54	MG	BA	3220	1/1	0.94	0.27	31,31,31,31	0
54	MG	DA	3057	1/1	0.94	0.15	35,35,35,35	0
54	MG	CA	1671	1/1	0.94	0.42	49,49,49,49	0
54	MG	DE	302	1/1	0.94	0.35	21,21,21,21	0
54	MG	BA	3449	1/1	0.94	0.29	29,29,29,29	0
54	MG	BA	3172	1/1	0.94	0.38	47,47,47,47	0
54	MG	BA	3031	1/1	0.94	0.17	44,44,44,44	0
54	MG	CA	1675	1/1	0.94	0.59	61,61,61,61	0
54	MG	DQ	201	1/1	0.94	0.15	40,40,40,40	0
54	MG	DA	3064	1/1	0.94	0.36	48,48,48,48	0
54	MG	DR	201	1/1	0.94	0.31	40,40,40,40	0
54	MG	DA	3216	1/1	0.94	0.15	51,51,51,51	0
54	MG	BA	3224	1/1	0.94	0.28	50,50,50,50	0
54	MG	BA	3136	1/1	0.94	0.36	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	D8	101	1/1	0.94	0.15	48,48,48,48	0
54	MG	DA	3069	1/1	0.94	0.39	42,42,42,42	0
54	MG	BA	3081	1/1	0.94	0.35	42,42,42,42	0
54	MG	DA	3072	1/1	0.94	0.49	50,50,50,50	0
54	MG	DA	3224	1/1	0.94	0.37	32,32,32,32	0
54	MG	AA	1668	1/1	0.94	0.57	62,62,62,62	0
54	MG	DA	3226	1/1	0.94	0.49	55,55,55,55	0
54	MG	DA	3441	1/1	0.95	0.26	48,48,48,48	0
54	MG	BA	3429	1/1	0.95	0.21	47,47,47,47	0
54	MG	BA	3052	1/1	0.95	0.17	52,52,52,52	0
54	MG	BA	3255	1/1	0.95	0.31	25,25,25,25	0
54	MG	DA	3135	1/1	0.95	0.32	47,47,47,47	0
54	MG	BA	3588	1/1	0.95	0.12	64,64,64,64	0
54	MG	BA	3517	1/1	0.95	0.11	26,26,26,26	0
54	MG	BA	3314	1/1	0.95	0.17	37,37,37,37	0
54	MG	DA	3269	1/1	0.95	0.29	47,47,47,47	0
54	MG	DA	3140	1/1	0.95	0.32	64,64,64,64	0
54	MG	DA	3455	1/1	0.95	0.05	68,68,68,68	0
54	MG	DA	3007	1/1	0.95	0.14	48,48,48,48	0
54	MG	BF	301	1/1	0.95	0.21	33,33,33,33	0
54	MG	DA	3010	1/1	0.95	0.18	42,42,42,42	0
54	MG	BA	3070	1/1	0.95	0.20	37,37,37,37	0
54	MG	BA	3521	1/1	0.95	0.09	40,40,40,40	0
54	MG	DA	3013	1/1	0.95	0.12	37,37,37,37	0
54	MG	BA	3378	1/1	0.95	0.16	25,25,25,25	0
54	MG	BA	3157	1/1	0.95	0.30	48,48,48,48	0
54	MG	BA	3071	1/1	0.95	0.17	34,34,34,34	0
54	MG	BQ	203	1/1	0.95	0.12	73,73,73,73	0
54	MG	AA	1700	1/1	0.95	0.09	42,42,42,42	0
54	MG	DA	3154	1/1	0.95	0.33	26,26,26,26	0
54	MG	DA	3155	1/1	0.95	0.37	64,64,64,64	0
54	MG	DA	3472	1/1	0.95	0.33	50,50,50,50	0
54	MG	DA	3156	1/1	0.95	0.20	35,35,35,35	0
54	MG	BA	3441	1/1	0.95	0.08	56,56,56,56	0
54	MG	DA	3161	1/1	0.95	0.34	39,39,39,39	0
54	MG	BA	3608	1/1	0.95	0.26	71,71,71,71	0
54	MG	BA	3384	1/1	0.95	0.15	88,88,88,88	0
54	MG	BA	3610	1/1	0.95	0.08	63,63,63,63	0
54	MG	DA	3026	1/1	0.95	0.08	39,39,39,39	0
54	MG	BW	202	1/1	0.95	0.12	33,33,33,33	0
54	MG	DA	3485	1/1	0.95	0.26	58,58,58,58	0
54	MG	BA	3529	1/1	0.95	0.07	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3093	1/1	0.95	0.19	42,42,42,42	0
54	MG	BA	3228	1/1	0.95	0.40	37,37,37,37	0
54	MG	B1	101	1/1	0.95	0.18	45,45,45,45	0
54	MG	DA	3299	1/1	0.95	0.42	65,65,65,65	0
54	MG	DA	3300	1/1	0.95	0.14	41,41,41,41	0
54	MG	DA	3301	1/1	0.95	0.46	50,50,50,50	0
54	MG	B2	101	1/1	0.95	0.17	45,45,45,45	0
54	MG	BA	3533	1/1	0.95	0.14	61,61,61,61	0
54	MG	BA	3617	1/1	0.95	0.07	94,94,94,94	0
54	MG	BA	3618	1/1	0.95	0.08	52,52,52,52	0
54	MG	BA	3265	1/1	0.95	0.39	29,29,29,29	0
54	MG	DA	3311	1/1	0.95	0.35	26,26,26,26	0
54	MG	DA	3045	1/1	0.95	0.12	38,38,38,38	0
54	MG	DA	3313	1/1	0.95	0.35	29,29,29,29	0
54	MG	DA	3178	1/1	0.95	0.33	32,32,32,32	0
54	MG	BA	3389	1/1	0.95	0.18	46,46,46,46	0
54	MG	CA	1691	1/1	0.95	0.42	51,51,51,51	0
54	MG	DA	3511	1/1	0.95	0.09	49,49,49,49	0
54	MG	BA	3028	1/1	0.95	0.15	22,22,22,22	0
54	MG	BA	3392	1/1	0.95	0.13	110,110,110,110	0
54	MG	DA	3320	1/1	0.95	0.14	38,38,38,38	0
54	MG	DA	3051	1/1	0.95	0.14	38,38,38,38	0
54	MG	DA	3053	1/1	0.95	0.14	40,40,40,40	0
54	MG	DA	3520	1/1	0.95	0.13	56,56,56,56	0
54	MG	DA	3054	1/1	0.95	0.12	46,46,46,46	0
54	MG	BA	3453	1/1	0.95	0.08	46,46,46,46	0
54	MG	DA	3056	1/1	0.95	0.18	43,43,43,43	0
54	MG	BA	3632	1/1	0.95	0.05	54,54,54,54	0
54	MG	CA	1696	1/1	0.95	0.43	61,61,61,61	0
54	MG	BA	3633	1/1	0.95	0.12	43,43,43,43	0
54	MG	AA	1687	1/1	0.95	0.18	62,62,62,62	0
54	MG	CA	1699	1/1	0.95	0.16	83,83,83,83	0
54	MG	BA	3166	1/1	0.95	0.29	36,36,36,36	0
54	MG	DA	3531	1/1	0.95	0.18	91,91,91,91	0
54	MG	BA	3639	1/1	0.95	0.20	65,65,65,65	0
54	MG	BA	3457	1/1	0.95	0.19	27,27,27,27	0
54	MG	AA	1631	1/1	0.95	0.16	41,41,41,41	0
54	MG	DA	3067	1/1	0.95	0.23	49,49,49,49	0
54	MG	BA	3202	1/1	0.95	0.16	48,48,48,48	0
54	MG	DA	3349	1/1	0.95	0.15	35,35,35,35	0
54	MG	BA	3460	1/1	0.95	0.30	61,61,61,61	0
54	MG	DA	3071	1/1	0.95	0.19	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3275	1/1	0.95	0.29	26,26,26,26	0
54	MG	BA	3116	1/1	0.95	0.17	53,53,53,53	0
54	MG	BA	3058	1/1	0.95	0.14	32,32,32,32	0
54	MG	DA	3546	1/1	0.95	0.11	64,64,64,64	0
54	MG	DA	3547	1/1	0.95	0.17	29,29,29,29	0
54	MG	DA	3210	1/1	0.95	0.26	53,53,53,53	0
54	MG	DA	3359	1/1	0.95	0.10	33,33,33,33	0
54	MG	CA	1619	1/1	0.95	0.15	50,50,50,50	0
54	MG	DA	3552	1/1	0.95	0.39	35,35,35,35	0
54	MG	DA	3553	1/1	0.95	0.08	54,54,54,54	0
54	MG	AA	1695	1/1	0.95	0.11	74,74,74,74	0
54	MG	BA	3651	1/1	0.95	0.21	87,87,87,87	0
54	MG	DA	3084	1/1	0.95	0.24	37,37,37,37	0
54	MG	BA	3652	1/1	0.95	0.06	97,97,97,97	0
54	MG	BA	3174	1/1	0.95	0.18	32,32,32,32	0
54	MG	DA	3560	1/1	0.95	0.14	57,57,57,57	0
54	MG	CA	1715	1/1	0.95	0.05	103,103,103,103	0
54	MG	DA	3219	1/1	0.95	0.16	38,38,38,38	0
54	MG	DA	3564	1/1	0.95	0.10	61,61,61,61	0
54	MG	BA	3344	1/1	0.95	0.31	61,61,61,61	0
54	MG	BA	3286	1/1	0.95	0.46	52,52,52,52	0
54	MG	DA	3379	1/1	0.95	0.12	59,59,59,59	0
54	MG	BA	3560	1/1	0.95	0.08	74,74,74,74	0
54	MG	DA	3381	1/1	0.95	0.05	42,42,42,42	0
54	MG	DA	3574	1/1	0.95	0.07	41,41,41,41	0
54	MG	BA	3657	1/1	0.95	0.45	65,65,65,65	0
54	MG	CA	1725	1/1	0.95	0.17	65,65,65,65	0
54	MG	BA	3208	1/1	0.95	0.28	38,38,38,38	0
54	MG	BA	3476	1/1	0.95	0.18	49,49,49,49	0
54	MG	BA	3209	1/1	0.95	0.21	56,56,56,56	0
54	MG	DA	3393	1/1	0.95	0.14	41,41,41,41	0
54	MG	CA	1734	1/1	0.95	0.23	66,66,66,66	0
54	MG	BB	201	1/1	0.95	0.12	57,57,57,57	0
54	MG	BA	3079	1/1	0.95	0.20	50,50,50,50	0
54	MG	BA	3409	1/1	0.95	0.07	68,68,68,68	0
54	MG	DA	3233	1/1	0.95	0.14	38,38,38,38	0
54	MG	DA	3406	1/1	0.95	0.07	58,58,58,58	0
54	MG	DA	3104	1/1	0.95	0.22	34,34,34,34	0
54	MG	DA	3108	1/1	0.95	0.11	42,42,42,42	0
54	MG	BA	3351	1/1	0.95	0.08	60,60,60,60	0
54	MG	BA	3033	1/1	0.95	0.10	36,36,36,36	0
54	MG	DA	3598	1/1	0.95	0.11	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1742	1/1	0.95	0.07	113,113,113,113	0
54	MG	DB	203	1/1	0.95	0.39	58,58,58,58	0
54	MG	DA	3241	1/1	0.95	0.27	35,35,35,35	0
54	MG	AA	1667	1/1	0.95	0.19	38,38,38,38	0
54	MG	AA	1725	1/1	0.95	0.20	56,56,56,56	0
54	MG	BA	3244	1/1	0.95	0.14	30,30,30,30	0
54	MG	BA	3245	1/1	0.95	0.34	23,23,23,23	0
54	MG	DA	3118	1/1	0.95	0.24	43,43,43,43	0
54	MG	DO	201	1/1	0.95	0.09	120,120,120,120	0
54	MG	DA	3249	1/1	0.95	0.29	49,49,49,49	0
54	MG	BA	3246	1/1	0.95	0.47	20,20,20,20	0
54	MG	BA	3125	1/1	0.95	0.31	45,45,45,45	0
54	MG	BA	3364	1/1	0.95	0.07	81,81,81,81	0
54	MG	DA	3429	1/1	0.95	0.07	56,56,56,56	0
54	MG	DA	3430	1/1	0.95	0.12	30,30,30,30	0
54	MG	BA	3049	1/1	0.95	0.37	53,53,53,53	0
54	MG	D0	101	1/1	0.95	0.09	41,41,41,41	0
54	MG	BA	3251	1/1	0.95	0.25	27,27,27,27	0
54	MG	BB	217	1/1	0.95	0.11	67,67,67,67	0
54	MG	AA	1639	1/1	0.95	0.45	67,67,67,67	0
54	MG	BA	3253	1/1	0.95	0.44	19,19,19,19	0
54	MG	BA	3513	1/1	0.95	0.09	86,86,86,86	0
54	MG	BB	222	1/1	0.95	0.18	80,80,80,80	0
54	MG	DA	3131	1/1	0.95	0.32	56,56,56,56	0
54	MG	DA	3439	1/1	0.95	0.07	57,57,57,57	0
55	ZN	D9	101	1/1	0.95	0.06	65,65,65,65	0
54	MG	DA	3043	1/1	0.96	0.10	54,54,54,54	0
54	MG	AA	1685	1/1	0.96	0.10	71,71,71,71	0
54	MG	DA	3168	1/1	0.96	0.20	42,42,42,42	0
54	MG	BA	3545	1/1	0.96	0.07	43,43,43,43	0
54	MG	BA	3167	1/1	0.96	0.45	31,31,31,31	0
54	MG	BA	3168	1/1	0.96	0.26	28,28,28,28	0
54	MG	BA	3467	1/1	0.96	0.24	30,30,30,30	0
54	MG	BA	3640	1/1	0.96	0.14	116,116,116,116	0
54	MG	AA	1691	1/1	0.96	0.12	43,43,43,43	0
54	MG	BA	3140	1/1	0.96	0.56	36,36,36,36	0
54	MG	BA	3069	1/1	0.96	0.36	42,42,42,42	0
54	MG	AA	1711	1/1	0.96	0.24	46,46,46,46	0
54	MG	BA	3211	1/1	0.96	0.10	26,26,26,26	0
54	MG	BA	3647	1/1	0.96	0.15	70,70,70,70	0
54	MG	DA	3302	1/1	0.96	0.51	21,21,21,21	0
54	MG	DA	3303	1/1	0.96	0.48	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3556	1/1	0.96	0.20	57,57,57,57	0
54	MG	DA	3475	1/1	0.96	0.11	30,30,30,30	0
54	MG	AA	1701	1/1	0.96	0.12	48,48,48,48	0
54	MG	DA	3183	1/1	0.96	0.45	26,26,26,26	0
54	MG	DA	3307	1/1	0.96	0.22	35,35,35,35	0
54	MG	BA	3042	1/1	0.96	0.27	40,40,40,40	0
54	MG	BA	3296	1/1	0.96	0.22	43,43,43,43	0
54	MG	DA	3310	1/1	0.96	0.37	28,28,28,28	0
54	MG	BA	3561	1/1	0.96	0.09	54,54,54,54	0
54	MG	BA	3247	1/1	0.96	0.46	26,26,26,26	0
54	MG	CA	1709	1/1	0.96	0.14	63,63,63,63	0
54	MG	BA	3145	1/1	0.96	0.20	44,44,44,44	0
54	MG	DA	3315	1/1	0.96	0.11	31,31,31,31	0
54	MG	BA	3412	1/1	0.96	0.17	78,78,78,78	0
54	MG	BA	3106	1/1	0.96	0.21	52,52,52,52	0
54	MG	CA	1624	1/1	0.96	0.54	63,63,63,63	0
54	MG	DA	3493	1/1	0.96	0.04	63,63,63,63	0
54	MG	AA	1672	1/1	0.96	0.41	46,46,46,46	0
54	MG	BA	3487	1/1	0.96	0.15	20,20,20,20	0
54	MG	BA	3415	1/1	0.96	0.08	33,33,33,33	0
54	MG	DA	3498	1/1	0.96	0.10	28,28,28,28	0
54	MG	BA	3362	1/1	0.96	0.10	43,43,43,43	0
54	MG	DA	3323	1/1	0.96	0.13	40,40,40,40	0
54	MG	DA	3501	1/1	0.96	0.08	58,58,58,58	0
54	MG	BA	3148	1/1	0.96	0.23	47,47,47,47	0
54	MG	DA	3076	1/1	0.96	0.15	42,42,42,42	0
54	MG	BA	3126	1/1	0.96	0.22	41,41,41,41	0
54	MG	DA	3327	1/1	0.96	0.49	52,52,52,52	0
54	MG	DA	3079	1/1	0.96	0.18	47,47,47,47	0
54	MG	DA	3080	1/1	0.96	0.16	44,44,44,44	0
54	MG	CA	1723	1/1	0.96	0.13	55,55,55,55	0
54	MG	DA	3082	1/1	0.96	0.42	36,36,36,36	0
54	MG	DA	3205	1/1	0.96	0.28	47,47,47,47	0
54	MG	DA	3206	1/1	0.96	0.60	52,52,52,52	0
54	MG	BB	203	1/1	0.96	0.23	70,70,70,70	0
54	MG	DA	3208	1/1	0.96	0.39	53,53,53,53	0
54	MG	BA	3127	1/1	0.96	0.28	38,38,38,38	0
54	MG	CA	1730	1/1	0.96	0.10	62,62,62,62	0
54	MG	BA	3059	1/1	0.96	0.12	48,48,48,48	0
54	MG	DA	3347	1/1	0.96	0.17	35,35,35,35	0
54	MG	DA	3348	1/1	0.96	0.15	41,41,41,41	0
54	MG	AA	1728	1/1	0.96	0.12	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3351	1/1	0.96	0.12	40,40,40,40	0
54	MG	BA	3223	1/1	0.96	0.51	60,60,60,60	0
54	MG	BA	3508	1/1	0.96	0.14	29,29,29,29	0
54	MG	BA	3509	1/1	0.96	0.15	50,50,50,50	0
54	MG	BA	3313	1/1	0.96	0.08	37,37,37,37	0
54	MG	BA	3371	1/1	0.96	0.11	33,33,33,33	0
54	MG	BA	3130	1/1	0.96	0.24	43,43,43,43	0
54	MG	DA	3534	1/1	0.96	0.14	28,28,28,28	0
54	MG	DA	3535	1/1	0.96	0.15	64,64,64,64	0
54	MG	CA	1641	1/1	0.96	0.09	52,52,52,52	0
54	MG	AA	1693	1/1	0.96	0.11	51,51,51,51	0
54	MG	BA	3376	1/1	0.96	0.11	26,26,26,26	0
54	MG	DA	3362	1/1	0.96	0.10	26,26,26,26	0
54	MG	BA	3226	1/1	0.96	0.22	50,50,50,50	0
54	MG	BA	3321	1/1	0.96	0.06	32,32,32,32	0
54	MG	DA	3367	1/1	0.96	0.24	30,30,30,30	0
54	MG	BA	3518	1/1	0.96	0.10	50,50,50,50	0
54	MG	DA	3369	1/1	0.96	0.07	50,50,50,50	0
54	MG	DA	3106	1/1	0.96	0.40	37,37,37,37	0
54	MG	BA	3263	1/1	0.96	0.38	36,36,36,36	0
54	MG	BA	3381	1/1	0.96	0.06	66,66,66,66	0
54	MG	BA	3324	1/1	0.96	0.10	42,42,42,42	0
54	MG	BA	3325	1/1	0.96	0.11	40,40,40,40	0
54	MG	BA	3597	1/1	0.96	0.24	84,84,84,84	0
54	MG	DA	3232	1/1	0.96	0.32	57,57,57,57	0
54	MG	CA	1654	1/1	0.96	0.13	65,65,65,65	0
54	MG	BA	3440	1/1	0.96	0.07	46,46,46,46	0
54	MG	BD	303	1/1	0.96	0.18	35,35,35,35	0
54	MG	BA	3192	1/1	0.96	0.10	51,51,51,51	0
54	MG	DA	3385	1/1	0.96	0.09	49,49,49,49	0
54	MG	DA	3386	1/1	0.96	0.08	39,39,39,39	0
54	MG	AA	1648	1/1	0.96	0.43	44,44,44,44	0
54	MG	DA	3389	1/1	0.96	0.07	51,51,51,51	0
54	MG	DA	3390	1/1	0.96	0.07	47,47,47,47	0
54	MG	BA	3604	1/1	0.96	0.07	50,50,50,50	0
54	MG	DA	3392	1/1	0.96	0.14	35,35,35,35	0
54	MG	BA	3605	1/1	0.96	0.07	55,55,55,55	0
54	MG	DA	3395	1/1	0.96	0.11	39,39,39,39	0
54	MG	DA	3396	1/1	0.96	0.17	52,52,52,52	0
54	MG	BA	3386	1/1	0.96	0.09	40,40,40,40	0
54	MG	BA	3445	1/1	0.96	0.17	31,31,31,31	0
54	MG	DA	3575	1/1	0.96	0.21	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3112	1/1	0.96	0.19	55,55,55,55	0
54	MG	DA	3006	1/1	0.96	0.29	38,38,38,38	0
54	MG	DA	3581	1/1	0.96	0.09	52,52,52,52	0
54	MG	BA	3530	1/1	0.96	0.14	56,56,56,56	0
54	MG	DA	3405	1/1	0.96	0.16	32,32,32,32	0
54	MG	BA	3160	1/1	0.96	0.35	39,39,39,39	0
54	MG	DA	3009	1/1	0.96	0.27	46,46,46,46	0
54	MG	BA	3078	1/1	0.96	0.27	30,30,30,30	0
54	MG	BA	3135	1/1	0.96	0.41	45,45,45,45	0
54	MG	DA	3253	1/1	0.96	0.09	50,50,50,50	0
54	MG	BR	201	1/1	0.96	0.17	29,29,29,29	0
54	MG	BA	3391	1/1	0.96	0.11	39,39,39,39	0
54	MG	BA	3199	1/1	0.96	0.14	41,41,41,41	0
54	MG	AA	1610	1/1	0.96	0.41	56,56,56,56	0
54	MG	BA	3619	1/1	0.96	0.13	64,64,64,64	0
54	MG	DA	3018	1/1	0.96	0.20	54,54,54,54	0
54	MG	BA	3620	1/1	0.96	0.05	68,68,68,68	0
54	MG	BA	3276	1/1	0.96	0.24	23,23,23,23	0
54	MG	BA	3395	1/1	0.96	0.10	60,60,60,60	0
54	MG	B0	102	1/1	0.96	0.17	54,54,54,54	0
54	MG	DA	3023	1/1	0.96	0.06	43,43,43,43	0
54	MG	DB	207	1/1	0.96	0.24	57,57,57,57	0
54	MG	DB	208	1/1	0.96	0.10	104,104,104,104	0
54	MG	CA	1678	1/1	0.96	0.24	55,55,55,55	0
54	MG	DD	302	1/1	0.96	0.41	38,38,38,38	0
54	MG	BA	3541	1/1	0.96	0.09	42,42,42,42	0
54	MG	BA	3625	1/1	0.96	0.06	53,53,53,53	0
54	MG	BA	3278	1/1	0.96	0.38	30,30,30,30	0
54	MG	DE	304	1/1	0.96	0.21	42,42,42,42	0
54	MG	DA	3150	1/1	0.96	0.33	42,42,42,42	0
54	MG	AA	1665	1/1	0.96	0.10	51,51,51,51	0
54	MG	BA	3628	1/1	0.96	0.15	35,35,35,35	0
54	MG	BA	3629	1/1	0.96	0.09	24,24,24,24	0
54	MG	B9	102	1/1	0.96	0.12	28,28,28,28	0
54	MG	CA	1601	1/1	0.96	0.21	45,45,45,45	0
54	MG	CA	1687	1/1	0.96	0.22	62,62,62,62	0
54	MG	DA	3440	1/1	0.96	0.28	42,42,42,42	0
54	MG	DA	3157	1/1	0.96	0.35	44,44,44,44	0
54	MG	DA	3158	1/1	0.96	0.29	46,46,46,46	0
54	MG	DA	3036	1/1	0.96	0.29	44,44,44,44	0
54	MG	DA	3160	1/1	0.96	0.10	42,42,42,42	0
54	MG	DA	3037	1/1	0.96	0.12	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	ZN	AD	301	1/1	0.96	0.28	74,74,74,74	0
54	MG	DA	3039	1/1	0.96	0.20	28,28,28,28	0
54	MG	DA	3448	1/1	0.96	0.10	42,42,42,42	0
54	MG	CA	1689	1/1	0.96	0.38	61,61,61,61	0
54	MG	DA	3041	1/1	0.96	0.51	36,36,36,36	0
55	ZN	DY	201	1/1	0.96	0.05	94,94,94,94	0
54	MG	CA	1690	1/1	0.96	0.25	64,64,64,64	0
54	MG	DA	3453	1/1	0.96	0.07	79,79,79,79	0
54	MG	DA	3467	1/1	0.97	0.11	43,43,43,43	0
54	MG	BA	3227	1/1	0.97	0.14	32,32,32,32	0
54	MG	BA	3480	1/1	0.97	0.13	31,31,31,31	0
54	MG	BA	3299	1/1	0.97	0.28	66,66,66,66	0
54	MG	DA	3471	1/1	0.97	0.19	31,31,31,31	0
54	MG	DA	3062	1/1	0.97	0.36	49,49,49,49	0
54	MG	AA	1608	1/1	0.97	0.33	67,67,67,67	0
54	MG	DA	3474	1/1	0.97	0.10	30,30,30,30	0
54	MG	BA	3484	1/1	0.97	0.18	27,27,27,27	0
54	MG	CA	1623	1/1	0.97	0.39	43,43,43,43	0
54	MG	BA	3485	1/1	0.97	0.10	32,32,32,32	0
54	MG	AA	1652	1/1	0.97	0.25	49,49,49,49	0
54	MG	BA	3360	1/1	0.97	0.22	35,35,35,35	0
54	MG	BA	3302	1/1	0.97	0.13	47,47,47,47	0
54	MG	BA	3489	1/1	0.97	0.15	23,23,23,23	0
54	MG	CA	1721	1/1	0.97	0.21	64,64,64,64	0
54	MG	BA	3568	1/1	0.97	0.12	39,39,39,39	0
54	MG	CA	1724	1/1	0.97	0.11	49,49,49,49	0
54	MG	BA	3420	1/1	0.97	0.19	61,61,61,61	0
54	MG	CA	1726	1/1	0.97	0.19	52,52,52,52	0
54	MG	CA	1727	1/1	0.97	0.17	46,46,46,46	0
54	MG	DA	3490	1/1	0.97	0.12	33,33,33,33	0
54	MG	DA	3078	1/1	0.97	0.17	48,48,48,48	0
54	MG	CA	1728	1/1	0.97	0.16	60,60,60,60	0
54	MG	BA	3491	1/1	0.97	0.10	28,28,28,28	0
54	MG	DA	3335	1/1	0.97	0.10	36,36,36,36	0
54	MG	DA	3337	1/1	0.97	0.28	30,30,30,30	0
54	MG	DA	3496	1/1	0.97	0.20	66,66,66,66	0
54	MG	DA	3338	1/1	0.97	0.21	42,42,42,42	0
54	MG	BA	3259	1/1	0.97	0.34	27,27,27,27	0
54	MG	BA	3493	1/1	0.97	0.20	40,40,40,40	0
54	MG	DA	3341	1/1	0.97	0.14	43,43,43,43	0
54	MG	DA	3083	1/1	0.97	0.22	37,37,37,37	0
54	MG	BA	3573	1/1	0.97	0.21	23,23,23,23	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	CA	1733	1/1	0.97	0.14	82,82,82,82	0
54	MG	BA	3494	1/1	0.97	0.13	34,34,34,34	0
54	MG	BA	3576	1/1	0.97	0.19	21,21,21,21	0
54	MG	DA	3088	1/1	0.97	0.39	55,55,55,55	0
54	MG	BA	3260	1/1	0.97	0.39	30,30,30,30	0
54	MG	BA	3365	1/1	0.97	0.07	69,69,69,69	0
54	MG	BA	3497	1/1	0.97	0.26	61,61,61,61	0
54	MG	BA	3499	1/1	0.97	0.12	60,60,60,60	0
54	MG	CA	1741	1/1	0.97	0.31	79,79,79,79	0
54	MG	AA	1720	1/1	0.97	0.07	68,68,68,68	0
54	MG	CA	1743	1/1	0.97	0.08	61,61,61,61	0
54	MG	CA	1744	1/1	0.97	0.06	83,83,83,83	0
54	MG	DA	3518	1/1	0.97	0.09	69,69,69,69	0
54	MG	DA	3097	1/1	0.97	0.26	23,23,23,23	0
54	MG	AA	1721	1/1	0.97	0.06	62,62,62,62	0
54	MG	BA	3505	1/1	0.97	0.21	41,41,41,41	0
54	MG	CA	1644	1/1	0.97	0.26	53,53,53,53	0
54	MG	DA	3102	1/1	0.97	0.47	40,40,40,40	0
54	MG	DA	3365	1/1	0.97	0.08	40,40,40,40	0
54	MG	CA	1748	1/1	0.97	0.06	58,58,58,58	0
54	MG	CA	1749	1/1	0.97	0.23	61,61,61,61	0
54	MG	BA	3307	1/1	0.97	0.11	44,44,44,44	0
54	MG	DA	3529	1/1	0.97	0.09	56,56,56,56	0
54	MG	DA	3107	1/1	0.97	0.08	54,54,54,54	0
54	MG	AA	1602	1/1	0.97	0.29	89,89,89,89	0
54	MG	CA	1647	1/1	0.97	0.15	86,86,86,86	0
54	MG	DA	3533	1/1	0.97	0.10	89,89,89,89	0
54	MG	BB	214	1/1	0.97	0.12	40,40,40,40	0
54	MG	DA	3373	1/1	0.97	0.27	32,32,32,32	0
54	MG	DA	3234	1/1	0.97	0.18	41,41,41,41	0
54	MG	DA	3376	1/1	0.97	0.14	30,30,30,30	0
54	MG	BA	3310	1/1	0.97	0.35	23,23,23,23	0
54	MG	BA	3047	1/1	0.97	0.30	35,35,35,35	0
54	MG	DA	3114	1/1	0.97	0.39	30,30,30,30	0
54	MG	BA	3511	1/1	0.97	0.15	32,32,32,32	0
54	MG	BA	3064	1/1	0.97	0.24	34,34,34,34	0
54	MG	BA	3206	1/1	0.97	0.26	49,49,49,49	0
54	MG	DA	3243	1/1	0.97	0.22	28,28,28,28	0
54	MG	BB	220	1/1	0.97	0.18	60,60,60,60	0
54	MG	CA	1760	1/1	0.97	0.09	87,87,87,87	0
54	MG	BA	3434	1/1	0.97	0.11	62,62,62,62	0
54	MG	DA	3388	1/1	0.97	0.14	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3121	1/1	0.97	0.13	34,34,34,34	0
54	MG	BA	3315	1/1	0.97	0.15	31,31,31,31	0
54	MG	BA	3316	1/1	0.97	0.13	45,45,45,45	0
54	MG	DA	3124	1/1	0.97	0.37	37,37,37,37	0
54	MG	BA	3595	1/1	0.97	0.29	27,27,27,27	0
54	MG	CA	1659	1/1	0.97	0.20	48,48,48,48	0
54	MG	BA	3596	1/1	0.97	0.07	48,48,48,48	0
54	MG	BA	3006	1/1	0.97	0.19	25,25,25,25	0
54	MG	DA	3005	1/1	0.97	0.23	77,77,77,77	0
54	MG	DA	3399	1/1	0.97	0.10	51,51,51,51	0
54	MG	BA	3066	1/1	0.97	0.35	39,39,39,39	0
54	MG	DA	3562	1/1	0.97	0.14	58,58,58,58	0
54	MG	BA	3599	1/1	0.97	0.17	30,30,30,30	0
54	MG	BE	303	1/1	0.97	0.13	26,26,26,26	0
54	MG	BA	3271	1/1	0.97	0.14	30,30,30,30	0
54	MG	BA	3322	1/1	0.97	0.08	37,37,37,37	0
54	MG	BA	3602	1/1	0.97	0.05	56,56,56,56	0
54	MG	AA	1696	1/1	0.97	0.16	66,66,66,66	0
54	MG	BA	3178	1/1	0.97	0.29	43,43,43,43	0
54	MG	DA	3573	1/1	0.97	0.24	31,31,31,31	0
54	MG	DA	3138	1/1	0.97	0.31	41,41,41,41	0
54	MG	DA	3014	1/1	0.97	0.19	31,31,31,31	0
54	MG	BA	3606	1/1	0.97	0.10	34,34,34,34	0
54	MG	DA	3578	1/1	0.97	0.22	29,29,29,29	0
54	MG	BA	3274	1/1	0.97	0.29	26,26,26,26	0
54	MG	BA	3326	1/1	0.97	0.11	49,49,49,49	0
54	MG	DA	3415	1/1	0.97	0.11	43,43,43,43	0
54	MG	DA	3143	1/1	0.97	0.20	60,60,60,60	0
54	MG	AA	1724	1/1	0.97	0.27	74,74,74,74	0
54	MG	DA	3418	1/1	0.97	0.15	31,31,31,31	0
54	MG	BA	3089	1/1	0.97	0.32	41,41,41,41	0
54	MG	DA	3420	1/1	0.97	0.22	37,37,37,37	0
54	MG	BA	3611	1/1	0.97	0.08	44,44,44,44	0
54	MG	DA	3422	1/1	0.97	0.18	43,43,43,43	0
54	MG	BA	3051	1/1	0.97	0.17	48,48,48,48	0
54	MG	BA	3156	1/1	0.97	0.27	39,39,39,39	0
54	MG	BA	3614	1/1	0.97	0.04	66,66,66,66	0
54	MG	BA	3451	1/1	0.97	0.21	28,28,28,28	0
54	MG	AA	1715	1/1	0.97	0.10	61,61,61,61	0
54	MG	BA	3334	1/1	0.97	0.09	51,51,51,51	0
54	MG	DA	3279	1/1	0.97	0.12	44,44,44,44	0
54	MG	BA	3184	1/1	0.97	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
54	MG	BA	3282	1/1	0.97	0.33	27,27,27,27	0
54	MG	BA	3283	1/1	0.97	0.45	21,21,21,21	0
54	MG	DB	205	1/1	0.97	0.16	55,55,55,55	0
54	MG	DB	206	1/1	0.97	0.26	58,58,58,58	0
54	MG	BA	3284	1/1	0.97	0.37	24,24,24,24	0
54	MG	BA	3092	1/1	0.97	0.40	26,26,26,26	0
54	MG	DA	3285	1/1	0.97	0.04	64,64,64,64	0
54	MG	B5	102	1/1	0.97	0.10	52,52,52,52	0
54	MG	DA	3034	1/1	0.97	0.10	32,32,32,32	0
54	MG	CA	1688	1/1	0.97	0.35	54,54,54,54	0
54	MG	BA	3187	1/1	0.97	0.59	42,42,42,42	0
54	MG	BA	3624	1/1	0.97	0.11	36,36,36,36	0
54	MG	BA	3540	1/1	0.97	0.13	35,35,35,35	0
54	MG	BA	3248	1/1	0.97	0.41	27,27,27,27	0
54	MG	DA	3446	1/1	0.97	0.24	42,42,42,42	0
54	MG	AA	1726	1/1	0.97	0.14	86,86,86,86	0
54	MG	BA	3464	1/1	0.97	0.11	39,39,39,39	0
54	MG	BA	3289	1/1	0.97	0.34	34,34,34,34	0
54	MG	BA	3023	1/1	0.97	0.14	52,52,52,52	0
54	MG	AA	1630	1/1	0.97	0.26	39,39,39,39	0
54	MG	BA	3636	1/1	0.97	0.06	28,28,28,28	0
54	MG	BA	3163	1/1	0.97	0.28	23,23,23,23	0
54	MG	D0	102	1/1	0.97	0.16	72,72,72,72	0
54	MG	BA	3293	1/1	0.97	0.18	48,48,48,48	0
54	MG	BA	3472	1/1	0.97	0.27	26,26,26,26	0
54	MG	BA	3551	1/1	0.97	0.11	82,82,82,82	0
54	MG	DA	3052	1/1	0.97	0.37	52,52,52,52	0
54	MG	BA	3294	1/1	0.97	0.18	39,39,39,39	0
54	MG	AA	1710	1/1	0.97	0.07	79,79,79,79	0
54	MG	BA	3352	1/1	0.97	0.14	81,81,81,81	0
54	MG	BA	3644	1/1	0.97	0.08	88,88,88,88	0
55	ZN	CN	101	1/1	0.97	0.08	107,107,107,107	0
54	MG	BA	3118	1/1	0.97	0.22	44,44,44,44	0
54	MG	DA	3181	1/1	0.97	0.28	49,49,49,49	0
54	MG	BA	3057	1/1	0.97	0.24	51,51,51,51	0
54	MG	BA	3630	1/1	0.98	0.08	34,34,34,34	0
54	MG	BA	3419	1/1	0.98	0.40	21,21,21,21	0
54	MG	BA	3537	1/1	0.98	0.17	31,31,31,31	0
54	MG	DA	3463	1/1	0.98	0.09	69,69,69,69	0
54	MG	BA	3635	1/1	0.98	0.08	23,23,23,23	0
54	MG	CA	1719	1/1	0.98	0.07	54,54,54,54	0
54	MG	DA	3549	1/1	0.98	0.20	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	BA	3454	1/1	0.98	0.12	25,25,25,25	0
54	MG	DA	3068	1/1	0.98	0.12	33,33,33,33	0
54	MG	BA	3361	1/1	0.98	0.04	59,59,59,59	0
54	MG	CA	1722	1/1	0.98	0.08	71,71,71,71	0
54	MG	DA	3554	1/1	0.98	0.09	47,47,47,47	0
54	MG	BA	3158	1/1	0.98	0.09	40,40,40,40	0
54	MG	BA	3099	1/1	0.98	0.16	46,46,46,46	0
54	MG	DA	3394	1/1	0.98	0.06	47,47,47,47	0
54	MG	BA	3312	1/1	0.98	0.10	51,51,51,51	0
54	MG	BA	3498	1/1	0.98	0.08	32,32,32,32	0
54	MG	AA	1698	1/1	0.98	0.15	69,69,69,69	0
54	MG	BA	3500	1/1	0.98	0.17	44,44,44,44	0
54	MG	BA	3502	1/1	0.98	0.24	34,34,34,34	0
54	MG	BA	3186	1/1	0.98	0.35	26,26,26,26	0
54	MG	BA	3173	1/1	0.98	0.39	32,32,32,32	0
54	MG	DA	3480	1/1	0.98	0.18	52,52,52,52	0
54	MG	DA	3566	1/1	0.98	0.13	54,54,54,54	0
54	MG	BA	3549	1/1	0.98	0.04	55,55,55,55	0
54	MG	DA	3404	1/1	0.98	0.14	36,36,36,36	0
54	MG	DA	3483	1/1	0.98	0.26	59,59,59,59	0
54	MG	DA	3570	1/1	0.98	0.18	28,28,28,28	0
54	MG	BA	3032	1/1	0.98	0.09	40,40,40,40	0
54	MG	DA	3572	1/1	0.98	0.10	71,71,71,71	0
54	MG	DA	3330	1/1	0.98	0.13	37,37,37,37	0
54	MG	BA	3277	1/1	0.98	0.37	22,22,22,22	0
54	MG	DA	3203	1/1	0.98	0.41	33,33,33,33	0
54	MG	BA	3465	1/1	0.98	0.15	44,44,44,44	0
54	MG	DA	3577	1/1	0.98	0.09	57,57,57,57	0
54	MG	DA	3334	1/1	0.98	0.12	52,52,52,52	0
54	MG	CA	1736	1/1	0.98	0.18	70,70,70,70	0
54	MG	DA	3580	1/1	0.98	0.17	52,52,52,52	0
54	MG	BA	3466	1/1	0.98	0.16	39,39,39,39	0
54	MG	BA	3430	1/1	0.98	0.06	49,49,49,49	0
54	MG	AA	1641	1/1	0.98	0.17	42,42,42,42	0
54	MG	BA	3603	1/1	0.98	0.08	40,40,40,40	0
54	MG	BW	201	1/1	0.98	0.12	32,32,32,32	0
54	MG	DA	3032	1/1	0.98	0.21	49,49,49,49	0
54	MG	BA	3320	1/1	0.98	0.17	42,42,42,42	0
54	MG	BA	3372	1/1	0.98	0.07	49,49,49,49	0
54	MG	DA	3345	1/1	0.98	0.31	54,54,54,54	0
54	MG	BA	3558	1/1	0.98	0.19	28,28,28,28	0
54	MG	BA	3345	1/1	0.98	0.10	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
54	MG	DA	3502	1/1	0.98	0.11	37,37,37,37	0
54	MG	DA	3423	1/1	0.98	0.16	32,32,32,32	0
54	MG	BA	3402	1/1	0.98	0.06	54,54,54,54	0
54	MG	DA	3425	1/1	0.98	0.07	47,47,47,47	0
54	MG	BA	3151	1/1	0.98	0.35	33,33,33,33	0
54	MG	DB	201	1/1	0.98	0.14	43,43,43,43	0
54	MG	DA	3507	1/1	0.98	0.13	80,80,80,80	0
54	MG	DA	3350	1/1	0.98	0.11	47,47,47,47	0
54	MG	DA	3428	1/1	0.98	0.05	68,68,68,68	0
54	MG	BA	3375	1/1	0.98	0.16	34,34,34,34	0
54	MG	BA	3475	1/1	0.98	0.14	39,39,39,39	0
54	MG	BA	3121	1/1	0.98	0.33	36,36,36,36	0
54	MG	AA	1650	1/1	0.98	0.55	53,53,53,53	0
54	MG	DA	3286	1/1	0.98	0.20	33,33,33,33	0
54	MG	DA	3101	1/1	0.98	0.19	39,39,39,39	0
54	MG	DA	3516	1/1	0.98	0.20	32,32,32,32	0
54	MG	BA	3087	1/1	0.98	0.20	46,46,46,46	0
54	MG	AA	1680	1/1	0.98	0.25	72,72,72,72	0
54	MG	DA	3519	1/1	0.98	0.07	52,52,52,52	0
54	MG	BA	3380	1/1	0.98	0.14	26,26,26,26	0
54	MG	DA	3105	1/1	0.98	0.09	46,46,46,46	0
54	MG	BA	3443	1/1	0.98	0.21	47,47,47,47	0
54	MG	DA	3363	1/1	0.98	0.18	26,26,26,26	0
54	MG	BA	3213	1/1	0.98	0.10	43,43,43,43	0
54	MG	BA	3483	1/1	0.98	0.13	28,28,28,28	0
54	MG	DA	3050	1/1	0.98	0.27	34,34,34,34	0
54	MG	BA	3527	1/1	0.98	0.18	29,29,29,29	0
54	MG	BA	3328	1/1	0.98	0.21	30,30,30,30	0
54	MG	DA	3112	1/1	0.98	0.24	51,51,51,51	0
54	MG	AA	1653	1/1	0.98	0.08	49,49,49,49	0
54	MG	D1	101	1/1	0.98	0.22	38,38,38,38	0
54	MG	CA	1761	1/1	0.98	0.18	65,65,65,65	0
54	MG	DA	3449	1/1	0.98	0.20	42,42,42,42	0
54	MG	BA	3575	1/1	0.98	0.08	41,41,41,41	0
54	MG	BA	3447	1/1	0.98	0.14	29,29,29,29	0
54	MG	DA	3374	1/1	0.98	0.20	37,37,37,37	0
54	MG	BA	3266	1/1	0.98	0.47	22,22,22,22	0
54	MG	DA	3240	1/1	0.98	0.15	53,53,53,53	0
54	MG	BA	3198	1/1	0.98	0.12	44,44,44,44	0
54	MG	DA	3242	1/1	0.98	0.56	34,34,34,34	0
54	MG	AA	1703	1/1	0.98	0.05	66,66,66,66	0
54	MG	BA	3200	1/1	0.98	0.18	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
55	ZN	D5	102	1/1	0.98	0.08	69,69,69,69	0
55	ZN	D6	101	1/1	0.98	0.07	63,63,63,63	0
54	MG	BA	3309	1/1	0.98	0.10	31,31,31,31	0
54	MG	DA	3585	1/1	0.99	0.13	33,33,33,33	0
54	MG	BA	3631	1/1	0.99	0.16	26,26,26,26	0
54	MG	BA	3357	1/1	0.99	0.16	25,25,25,25	0
54	MG	BA	3044	1/1	0.99	0.08	33,33,33,33	0
54	MG	BA	3634	1/1	0.99	0.11	53,53,53,53	0
54	MG	BA	3270	1/1	0.99	0.45	25,25,25,25	0
54	MG	BA	3350	1/1	0.99	0.09	40,40,40,40	0
54	MG	DA	3217	1/1	0.99	0.49	32,32,32,32	0
54	MG	BA	3319	1/1	0.99	0.12	54,54,54,54	0
54	MG	DA	3594	1/1	0.99	0.18	58,58,58,58	0
54	MG	DA	3038	1/1	0.99	0.08	37,37,37,37	0
54	MG	BA	3423	1/1	0.99	0.17	33,33,33,33	0
54	MG	BA	3327	1/1	0.99	0.18	23,23,23,23	0
54	MG	BA	3190	1/1	0.99	0.17	27,27,27,27	0
54	MG	BA	3591	1/1	0.99	0.10	34,34,34,34	0
54	MG	BA	3501	1/1	0.99	0.10	29,29,29,29	0
54	MG	B8	101	1/1	0.99	0.21	51,51,51,51	0
54	MG	BA	3034	1/1	0.99	0.10	41,41,41,41	0
54	MG	DA	3377	1/1	0.99	0.07	33,33,33,33	0
54	MG	BA	3463	1/1	0.99	0.09	28,28,28,28	0
55	ZN	B5	101	1/1	0.99	0.09	45,45,45,45	0
55	ZN	B6	101	1/1	0.99	0.11	48,48,48,48	0
55	ZN	B9	101	1/1	0.99	0.08	50,50,50,50	0
54	MG	DA	3403	1/1	0.99	0.07	34,34,34,34	0
54	MG	DA	3355	1/1	0.99	0.13	49,49,49,49	0
54	MG	BA	3082	1/1	0.99	0.12	36,36,36,36	0
54	MG	BA	3416	1/1	0.99	0.08	25,25,25,25	0
54	MG	BA	3506	1/1	0.99	0.11	30,30,30,30	0
54	MG	DA	3336	1/1	0.99	0.17	41,41,41,41	0
54	MG	BA	3188	1/1	0.99	0.27	39,39,39,39	0
54	MG	BE	304	1/1	1.00	0.19	25,25,25,25	0

6.5 Other polymers (i)

There are no such residues in this entry.