wwPDB X-ray Structure Validation Summary Report (i)

Sep 14, 2023 – 07:25 AM EDT

PDB ID	:	4V9N
Title	:	Crystal structure of the 70S ribosome bound with the Q253P mutant of release factor RF2.
Authors	:	Santos, N.; Zhu, J.; Donohue, J.P.; Korostelev, A.A.; Noller, H.F.
Deposited on	:	2013-04-26
Resolution	:	3.40 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (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 (1)) were used in the production of this report:

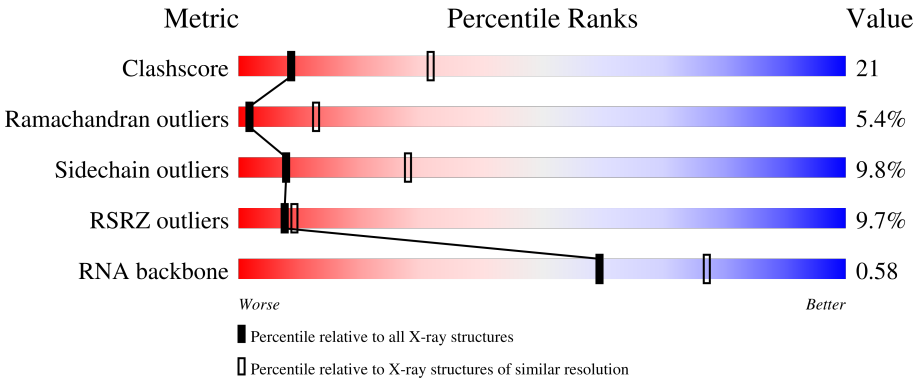
MolProbity	:	4.02b-467
Xtriage (Phenix)	:	1.13
EDS	:	2.35.1
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation 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 3.40 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	1055 (3.48-3.32)
Ramachandran outliers	138981	1038 (3.48-3.32)
Sidechain outliers	138945	1038 (3.48-3.32)
RSRZ outliers	127900	2173 (3.50-3.30)
RNA backbone	3102	1006 (3.84-2.96)

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	1504	2% 44% 46% 10%
1	CA	1504	3% 44% 46% 10%
2	AV	10	10% 50% 50%
2	CV	10	30% 40% 60%
3	AW	77	% 60% 35% 5%

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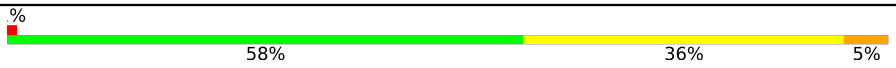
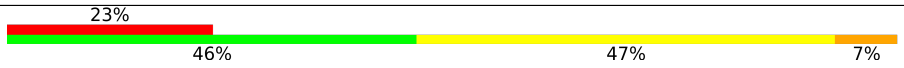
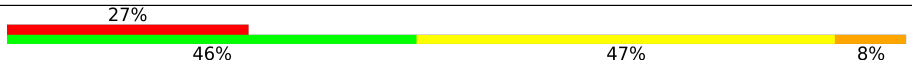
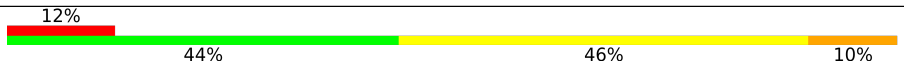
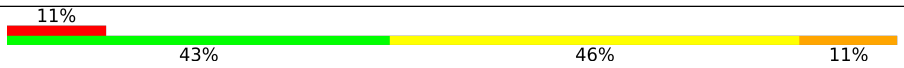
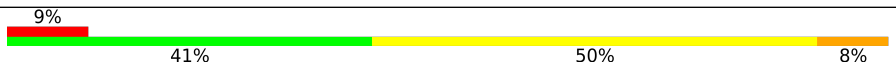
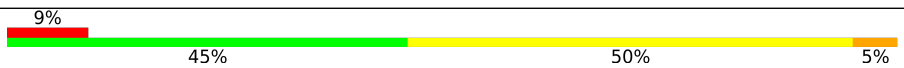
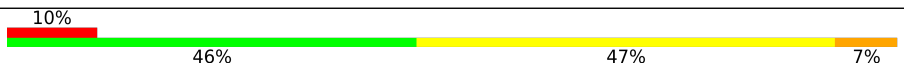
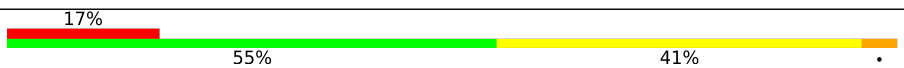
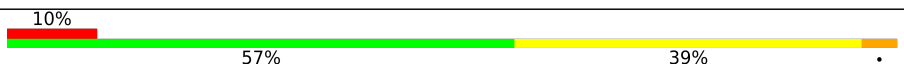
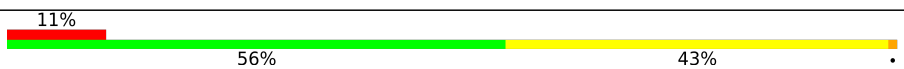
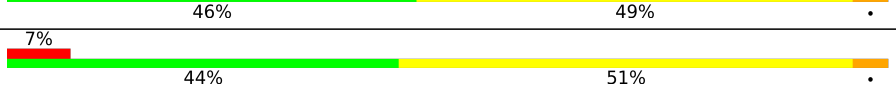
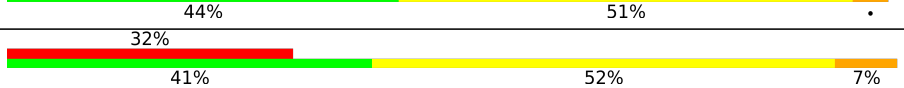
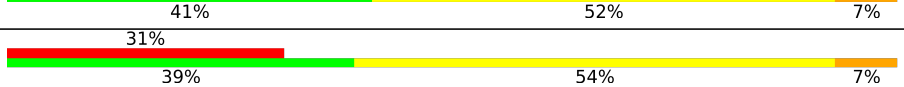
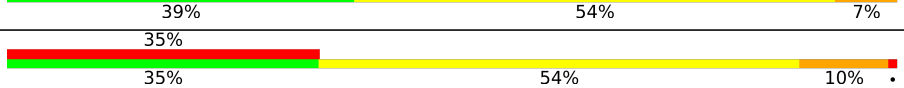
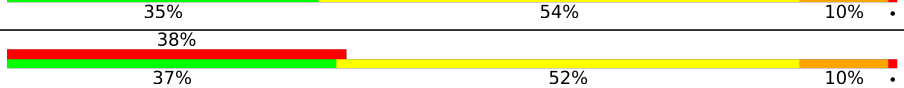
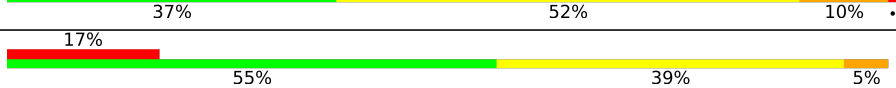
Mol	Chain	Length	Quality of chain
3	CW	77	
4	AY	362	
4	CY	362	
5	AB	234	
5	CB	234	
6	AC	206	
6	CC	206	
7	AD	208	
7	CD	208	
8	AE	151	
8	CE	151	
9	AF	101	
9	CF	101	
10	AG	155	
10	CG	155	
11	AH	138	
11	CH	138	
12	AI	127	
12	CI	127	
13	AJ	98	
13	CJ	98	
14	AK	114	
14	CK	114	
15	AL	122	
15	CL	122	

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Mol	Chain	Length	Quality of chain
16	AM	117	13% 53% 41% 6%
16	CM	117	17% 53% 41% 6%
17	AN	60	17% 45% 47% 7%
17	CN	60	18% 40% 53% 7%
18	AO	88	2% 56% 34% 10%
18	CO	88	% 53% 35% 11%
19	AP	83	5% 41% 51% 8%
19	CP	83	31% 42% 51% 7%
20	AQ	99	4% 48% 45% 6%
20	CQ	99	6% 47% 46% 6%
21	AR	70	40% 50% 49%
21	CR	70	14% 46% 51%
22	AS	78	32% 36% 46% 17%
22	CS	78	36% 35% 46% 18%
23	AT	99	14% 49% 46%
23	CT	99	17% 49% 46%
24	AU	24	96% 25% 67% 8%
24	CU	24	79% 38% 54% 8%
25	BA	2879	3% 48% 40% 9%
25	DA	2879	3% 48% 39% 9%
26	BB	119	41% 48% 11%
26	DB	119	2% 39% 50% 11%
27	BD	271	5% 41% 50% 9%
27	DD	271	2% 41% 50% 9%
28	BE	204	5% 50% 44% 6%

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Mol	Chain	Length	Quality of chain
28	DE	204	2% 49% 44% 8%
29	BF	202	44% 49% 8%
29	DF	202	% 43% 50% 8%
30	BG	181	22% 41% 49% 10%
30	DG	181	16% 40% 50% 10%
31	BH	159	31% 52% 42% 7%
31	DH	159	4% 50% 43% 6%
32	BI	145	41% 35% 58% 7%
32	DI	145	10% 36% 57% 8%
33	BK	147	83% 50% 41% 9%
33	DK	147	82% 49% 45% 6%
34	BN	137	4% 42% 45% 12%
34	DN	137	44% 44% 12%
35	BO	122	60% 39%
35	DO	122	59% 39%
36	BP	146	9% 30% 46% 19% 5%
36	DP	146	10% 29% 48% 18% 5%
37	BQ	134	5% 43% 51% 6%
37	DQ	134	5% 45% 49% 5%
38	BR	117	% 41% 49% 9%
38	DR	117	3% 43% 48% 9%
39	BS	98	26% 35% 52% 10%
39	DS	98	14% 37% 48% 12%
40	BT	137	5% 47% 41% 11%
40	DT	137	10% 45% 44% 11%

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Mol	Chain	Length	Quality of chain
41	BU	117	5% 47% 45% 8%
41	DU	117	3% 50% 43% 8%
42	BV	101	2% 36% 50% 13%
42	DV	101	9% 32% 54% 13%
43	BW	112	2% 54% 40% 6%
43	DW	112	53% 41% 6%
44	BX	92	2% 38% 58%
44	DX	92	2% 39% 57%
45	BY	100	23% 38% 48% 12%
45	DY	100	15% 39% 46% 12%
46	BZ	187	9% 45% 51%
46	DZ	187	6% 47% 49%
47	B0	76	3% 43% 47% 9%
47	D0	76	4% 46% 46% 8%
48	B1	88	6% 24% 57% 18%
48	D1	88	5% 20% 58% 20%
49	B2	62	10% 31% 55% 11%
49	D2	62	11% 31% 52% 15%
50	B3	59	10% 44% 51% 5%
50	D3	59	5% 47% 47% 5%
51	B4	30	17% 53% 43%
51	D4	30	37% 53% 43%
52	B5	52	6% 58% 38%
52	D5	52	2% 56% 38%
53	B6	44	100% 32% 50% 18%

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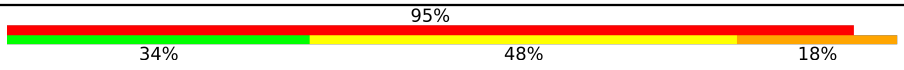
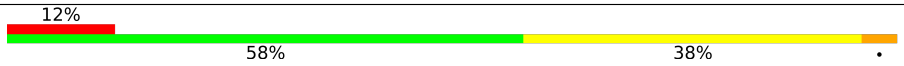
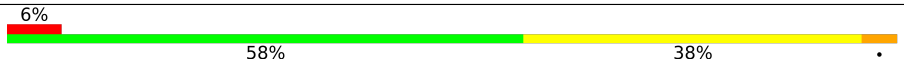
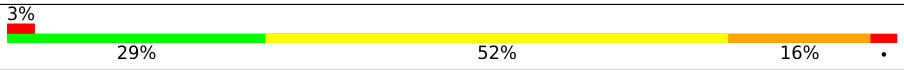
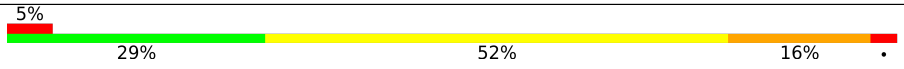
Mol	Chain	Length	Quality of chain
53	D6	44	
54	B7	48	
54	D7	48	
55	B8	63	
55	D8	63	

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

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	AA	1607	-	-	-	X
56	MG	AA	1612	-	-	-	X
56	MG	AA	1619	-	-	-	X
56	MG	AA	1622	-	-	-	X
56	MG	AA	1625	-	-	-	X
56	MG	AA	1629	-	-	-	X
56	MG	AA	1631	-	-	-	X
56	MG	AA	1632	-	-	-	X
56	MG	AA	1639	-	-	-	X
56	MG	AA	1672	-	-	-	X
56	MG	AA	1675	-	-	-	X
56	MG	AA	1686	-	-	-	X
56	MG	AA	1699	-	-	-	X
56	MG	AA	1702	-	-	-	X
56	MG	AA	1714	-	-	-	X
56	MG	AA	1725	-	-	-	X
56	MG	AA	1726	-	-	-	X
56	MG	AA	1727	-	-	-	X
56	MG	AA	1742	-	-	-	X
56	MG	AA	1744	-	-	-	X
56	MG	AA	1764	-	-	-	X
56	MG	AA	1765	-	-	-	X
56	MG	AA	1767	-	-	-	X
56	MG	AA	1772	-	-	-	X
56	MG	AA	1780	-	-	-	X
56	MG	AA	1782	-	-	-	X
56	MG	AA	1783	-	-	-	X
56	MG	AA	1786	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	AA	1790	-	-	-	X
56	MG	AA	1796	-	-	-	X
56	MG	AA	1804	-	-	-	X
56	MG	AA	1824	-	-	-	X
56	MG	AA	1825	-	-	-	X
56	MG	AA	1829	-	-	-	X
56	MG	AA	1831	-	-	-	X
56	MG	AA	1835	-	-	-	X
56	MG	AA	1839	-	-	-	X
56	MG	AA	1846	-	-	-	X
56	MG	AA	1854	-	-	-	X
56	MG	AA	1860	-	-	-	X
56	MG	AA	1874	-	-	-	X
56	MG	AA	1879	-	-	-	X
56	MG	AA	1897	-	-	-	X
56	MG	AA	1934	-	-	-	X
56	MG	AA	1941	-	-	-	X
56	MG	AA	1945	-	-	-	X
56	MG	AA	1947	-	-	-	X
56	MG	AA	1950	-	-	-	X
56	MG	AA	1951	-	-	-	X
56	MG	AA	1957	-	-	-	X
56	MG	AA	1979	-	-	-	X
56	MG	AC	301	-	-	-	X
56	MG	AG	201	-	-	-	X
56	MG	AT	203	-	-	-	X
56	MG	AW	102	-	-	-	X
56	MG	AW	104	-	-	-	X
56	MG	AW	107	-	-	-	X
56	MG	AW	109	-	-	-	X
56	MG	AW	112	-	-	-	X
56	MG	AY	401	-	-	-	X
56	MG	AY	403	-	-	-	X
56	MG	B0	102	-	-	-	X
56	MG	BA	2917	-	-	-	X
56	MG	BA	2918	-	-	-	X
56	MG	BA	2920	-	-	-	X
56	MG	BA	2922	-	-	-	X
56	MG	BA	2925	-	-	-	X
56	MG	BA	2926	-	-	-	X
56	MG	BA	2929	-	-	-	X
56	MG	BA	2930	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	BA	2934	-	-	-	X
56	MG	BA	2935	-	-	-	X
56	MG	BA	2939	-	-	-	X
56	MG	BA	2943	-	-	-	X
56	MG	BA	2946	-	-	-	X
56	MG	BA	2949	-	-	-	X
56	MG	BA	2950	-	-	-	X
56	MG	BA	2959	-	-	-	X
56	MG	BA	2972	-	-	-	X
56	MG	BA	2973	-	-	-	X
56	MG	BA	2976	-	-	-	X
56	MG	BA	2992	-	-	-	X
56	MG	BA	2994	-	-	-	X
56	MG	BA	3003	-	-	-	X
56	MG	BA	3004	-	-	-	X
56	MG	BA	3011	-	-	-	X
56	MG	BA	3012	-	-	-	X
56	MG	BA	3020	-	-	-	X
56	MG	BA	3022	-	-	-	X
56	MG	BA	3032	-	-	-	X
56	MG	BA	3043	-	-	-	X
56	MG	BA	3053	-	-	-	X
56	MG	BA	3064	-	-	-	X
56	MG	BA	3073	-	-	-	X
56	MG	BA	3078	-	-	-	X
56	MG	BA	3084	-	-	-	X
56	MG	BA	3085	-	-	-	X
56	MG	BA	3092	-	-	-	X
56	MG	BA	3093	-	-	-	X
56	MG	BA	3095	-	-	-	X
56	MG	BA	3097	-	-	-	X
56	MG	BA	3098	-	-	-	X
56	MG	BA	3119	-	-	-	X
56	MG	BA	3121	-	-	-	X
56	MG	BA	3128	-	-	-	X
56	MG	BA	3130	-	-	-	X
56	MG	BA	3139	-	-	-	X
56	MG	BA	3141	-	-	-	X
56	MG	BA	3143	-	-	-	X
56	MG	BA	3147	-	-	-	X
56	MG	BA	3156	-	-	-	X
56	MG	BA	3157	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	BA	3168	-	-	-	X
56	MG	BA	3173	-	-	-	X
56	MG	BA	3175	-	-	-	X
56	MG	BA	3180	-	-	-	X
56	MG	BA	3182	-	-	-	X
56	MG	BA	3185	-	-	-	X
56	MG	BA	3186	-	-	-	X
56	MG	BA	3188	-	-	-	X
56	MG	BA	3189	-	-	-	X
56	MG	BA	3205	-	-	-	X
56	MG	BA	3211	-	-	-	X
56	MG	BA	3213	-	-	-	X
56	MG	BA	3218	-	-	-	X
56	MG	BA	3224	-	-	-	X
56	MG	BA	3229	-	-	-	X
56	MG	BA	3230	-	-	-	X
56	MG	BA	3237	-	-	-	X
56	MG	BA	3239	-	-	-	X
56	MG	BA	3244	-	-	-	X
56	MG	BA	3247	-	-	-	X
56	MG	BA	3248	-	-	-	X
56	MG	BA	3252	-	-	-	X
56	MG	BA	3256	-	-	-	X
56	MG	BA	3257	-	-	-	X
56	MG	BA	3261	-	-	-	X
56	MG	BA	3264	-	-	-	X
56	MG	BA	3267	-	-	-	X
56	MG	BA	3270	-	-	-	X
56	MG	BA	3275	-	-	-	X
56	MG	BA	3278	-	-	-	X
56	MG	BA	3284	-	-	-	X
56	MG	BA	3297	-	-	-	X
56	MG	BA	3299	-	-	-	X
56	MG	BA	3332	-	-	-	X
56	MG	BA	3369	-	-	-	X
56	MG	BA	3377	-	-	-	X
56	MG	BA	3403	-	-	-	X
56	MG	BA	3407	-	-	-	X
56	MG	BA	3414	-	-	-	X
56	MG	BA	3435	-	-	-	X
56	MG	BA	3450	-	-	-	X
56	MG	BA	3462	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	BA	3465	-	-	-	X
56	MG	BA	3479	-	-	-	X
56	MG	BA	3482	-	-	-	X
56	MG	BA	3496	-	-	-	X
56	MG	BA	3514	-	-	-	X
56	MG	BA	3517	-	-	-	X
56	MG	BA	3536	-	-	-	X
56	MG	BA	3540	-	-	-	X
56	MG	BA	3546	-	-	-	X
56	MG	BA	3548	-	-	-	X
56	MG	BA	3553	-	-	-	X
56	MG	BA	3563	-	-	-	X
56	MG	BA	3569	-	-	-	X
56	MG	BA	3577	-	-	-	X
56	MG	BA	3583	-	-	-	X
56	MG	BA	3584	-	-	-	X
56	MG	BA	3588	-	-	-	X
56	MG	BA	3591	-	-	-	X
56	MG	BA	3597	-	-	-	X
56	MG	BA	3599	-	-	-	X
56	MG	BA	3600	-	-	-	X
56	MG	BA	3602	-	-	-	X
56	MG	BA	3612	-	-	-	X
56	MG	BA	3613	-	-	-	X
56	MG	BA	3616	-	-	-	X
56	MG	BA	3618	-	-	-	X
56	MG	BA	3622	-	-	-	X
56	MG	BA	3628	-	-	-	X
56	MG	BA	3629	-	-	-	X
56	MG	BA	3639	-	-	-	X
56	MG	BA	3641	-	-	-	X
56	MG	BA	3650	-	-	-	X
56	MG	BA	3655	-	-	-	X
56	MG	BA	3661	-	-	-	X
56	MG	BA	3672	-	-	-	X
56	MG	BA	3676	-	-	-	X
56	MG	BA	3713	-	-	-	X
56	MG	BB	208	-	-	-	X
56	MG	BB	211	-	-	-	X
56	MG	BB	216	-	-	-	X
56	MG	BB	223	-	-	-	X
56	MG	BE	301	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	CA	1607	-	-	-	X
56	MG	CA	1613	-	-	-	X
56	MG	CA	1614	-	-	-	X
56	MG	CA	1626	-	-	-	X
56	MG	CA	1631	-	-	-	X
56	MG	CA	1644	-	-	-	X
56	MG	CA	1645	-	-	-	X
56	MG	CA	1647	-	-	-	X
56	MG	CA	1658	-	-	-	X
56	MG	CA	1663	-	-	-	X
56	MG	CA	1665	-	-	-	X
56	MG	CA	1669	-	-	-	X
56	MG	CA	1675	-	-	-	X
56	MG	CA	1677	-	-	-	X
56	MG	CA	1678	-	-	-	X
56	MG	CA	1681	-	-	-	X
56	MG	CA	1683	-	-	-	X
56	MG	CA	1693	-	-	-	X
56	MG	CA	1699	-	-	-	X
56	MG	CA	1704	-	-	-	X
56	MG	CA	1710	-	-	-	X
56	MG	CA	1719	-	-	-	X
56	MG	CA	1720	-	-	-	X
56	MG	CA	1725	-	-	-	X
56	MG	CA	1732	-	-	-	X
56	MG	CA	1735	-	-	-	X
56	MG	CA	1737	-	-	-	X
56	MG	CA	1747	-	-	-	X
56	MG	CA	1748	-	-	-	X
56	MG	CA	1752	-	-	-	X
56	MG	CA	1772	-	-	-	X
56	MG	CA	1780	-	-	-	X
56	MG	CA	1790	-	-	-	X
56	MG	CA	1792	-	-	-	X
56	MG	CA	1800	-	-	-	X
56	MG	CA	1807	-	-	-	X
56	MG	CA	1808	-	-	-	X
56	MG	CA	1809	-	-	-	X
56	MG	CA	1810	-	-	-	X
56	MG	CA	1812	-	-	-	X
56	MG	CA	1816	-	-	-	X
56	MG	CA	1820	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	CA	1833	-	-	-	X
56	MG	CA	1840	-	-	-	X
56	MG	CA	1842	-	-	-	X
56	MG	CA	1854	-	-	-	X
56	MG	CA	1874	-	-	-	X
56	MG	CA	1877	-	-	-	X
56	MG	CA	1882	-	-	-	X
56	MG	CA	1884	-	-	-	X
56	MG	CA	1887	-	-	-	X
56	MG	CA	1900	-	-	-	X
56	MG	CA	1902	-	-	-	X
56	MG	CA	1907	-	-	-	X
56	MG	CA	1911	-	-	-	X
56	MG	CA	1912	-	-	-	X
56	MG	CA	1926	-	-	-	X
56	MG	CD	302	-	-	-	X
56	MG	CM	201	-	-	-	X
56	MG	CW	102	-	-	-	X
56	MG	CW	105	-	-	-	X
56	MG	CY	401	-	-	-	X
56	MG	D7	101	-	-	-	X
56	MG	DA	2903	-	-	-	X
56	MG	DA	2911	-	-	-	X
56	MG	DA	2914	-	-	-	X
56	MG	DA	2915	-	-	-	X
56	MG	DA	2916	-	-	-	X
56	MG	DA	2917	-	-	-	X
56	MG	DA	2930	-	-	-	X
56	MG	DA	2936	-	-	-	X
56	MG	DA	2937	-	-	-	X
56	MG	DA	2948	-	-	-	X
56	MG	DA	2949	-	-	-	X
56	MG	DA	2964	-	-	-	X
56	MG	DA	2972	-	-	-	X
56	MG	DA	2975	-	-	-	X
56	MG	DA	2989	-	-	-	X
56	MG	DA	3001	-	-	-	X
56	MG	DA	3003	-	-	-	X
56	MG	DA	3004	-	-	-	X
56	MG	DA	3008	-	-	-	X
56	MG	DA	3009	-	-	-	X
56	MG	DA	3016	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	DA	3030	-	-	-	X
56	MG	DA	3033	-	-	-	X
56	MG	DA	3044	-	-	-	X
56	MG	DA	3052	-	-	-	X
56	MG	DA	3054	-	-	-	X
56	MG	DA	3062	-	-	-	X
56	MG	DA	3066	-	-	-	X
56	MG	DA	3070	-	-	-	X
56	MG	DA	3072	-	-	-	X
56	MG	DA	3073	-	-	-	X
56	MG	DA	3086	-	-	-	X
56	MG	DA	3092	-	-	-	X
56	MG	DA	3097	-	-	-	X
56	MG	DA	3107	-	-	-	X
56	MG	DA	3119	-	-	-	X
56	MG	DA	3188	-	-	-	X
56	MG	DA	3243	-	-	-	X
56	MG	DA	3248	-	-	-	X
56	MG	DA	3270	-	-	-	X
56	MG	DA	3287	-	-	-	X
56	MG	DA	3308	-	-	-	X
56	MG	DA	3325	-	-	-	X
56	MG	DA	3326	-	-	-	X
56	MG	DA	3338	-	-	-	X
56	MG	DA	3343	-	-	-	X
56	MG	DA	3348	-	-	-	X
56	MG	DA	3351	-	-	-	X
56	MG	DA	3375	-	-	-	X
56	MG	DA	3381	-	-	-	X
56	MG	DA	3385	-	-	-	X
56	MG	DA	3398	-	-	-	X
56	MG	DA	3403	-	-	-	X
56	MG	DA	3427	-	-	-	X
56	MG	DA	3428	-	-	-	X
56	MG	DA	3484	-	-	-	X
56	MG	DA	3498	-	-	-	X
56	MG	DA	3502	-	-	-	X
56	MG	DA	3510	-	-	-	X
56	MG	DA	3516	-	-	-	X
56	MG	DA	3517	-	-	-	X
56	MG	DA	3519	-	-	-	X
56	MG	DA	3531	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
56	MG	DA	3541	-	-	-	X
56	MG	DA	3544	-	-	-	X
56	MG	DA	3548	-	-	-	X
56	MG	DA	3568	-	-	-	X
56	MG	DA	3577	-	-	-	X
56	MG	DA	3586	-	-	-	X
56	MG	DA	3611	-	-	-	X
56	MG	DB	206	-	-	-	X
56	MG	DB	209	-	-	-	X
56	MG	DB	218	-	-	-	X
56	MG	DF	301	-	-	-	X
56	MG	DV	201	-	-	-	X
56	MG	DW	201	-	-	-	X

2 Entry composition (i)

There are 57 unique types of molecules in this entry. The entry contains 294074 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 rRNA (1504-MER).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	AA	1504	Total	C	N	O	P	0	0	0
			32332	14391	5994	10444	1503			
1	CA	1504	Total	C	N	O	P	0	0	0
			32332	14391	5994	10444	1503			

- Molecule 2 is a RNA chain called messenger RNA (5'-R(*AP*AP*UP*GP*UP*AP*G)-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	AV	10	Total	C	N	O	P	0	0	0
			214	98	44	63	9			
2	CV	10	Total	C	N	O	P	0	0	0
			214	98	44	63	9			

- Molecule 3 is a RNA chain called P-site tRNA-fMet.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	AW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			
3	CW	77	Total	C	N	O	P	0	0	0
			1640	732	297	535	76			

- Molecule 4 is a protein called Bacterial peptide chain release factor 2 (RF-2).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	AY	362	Total	C	N	O	S	0	0	0
			2874	1794	517	555	8			
4	CY	362	Total	C	N	O	S	0	0	0
			2874	1794	517	555	8			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
AY	253	PRO	GLN	engineered mutation	UNP Q72GJ6
CY	253	PRO	GLN	engineered mutation	UNP Q72GJ6

- Molecule 5 is a protein called 30S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AB	234	Total	C	N	O	S	0	0	0
			1901	1213	341	342	5			
5	CB	234	Total	C	N	O	S	0	0	0
			1901	1213	341	342	5			

- Molecule 6 is a protein called 30S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AC	206	Total	C	N	O	S	0	0	0
			1613	1016	314	282	1			
6	CC	206	Total	C	N	O	S	0	0	0
			1613	1016	314	282	1			

- Molecule 7 is a protein called 30S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			
7	CD	208	Total	C	N	O	S	0	0	0
			1703	1066	339	291	7			

- Molecule 8 is a protein called 30S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AE	151	Total	C	N	O	S	0	0	0
			1156	729	218	205	4			
8	CE	151	Total	C	N	O	S	0	0	0
			1156	729	218	205	4			

- Molecule 9 is a protein called 30S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
9	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 10 is a protein called 30S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
10	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 11 is a protein called 30S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
11	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 12 is a protein called 30S ribosomal protein S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
12	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
12	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

- Molecule 13 is a protein called 30S ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AJ	98	Total	C	N	O	S	0	0	0
			795	499	156	139	1			
13	CJ	98	Total	C	N	O	S	0	0	0
			795	499	156	139	1			

- Molecule 14 is a protein called 30S ribosomal protein S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AK	114	Total	C	N	O	S	0	0	0
			843	522	159	159	3			
14	CK	114	Total	C	N	O	S	0	0	0
			843	522	159	159	3			

- Molecule 15 is a protein called 30S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AL	122	Total	C	N	O	S	0	0	0
			957	603	193	160	1			
15	CL	122	Total	C	N	O	S	0	0	0
			957	603	193	160	1			

- Molecule 16 is a protein called 30S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AM	117	Total	C	N	O	S	0	0	0
			934	577	192	163	2			
16	CM	117	Total	C	N	O	S	0	0	0
			934	577	192	163	2			

- Molecule 17 is a protein called 30S ribosomal protein S14.

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

- Molecule 18 is a protein called 30S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
18	AO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
18	CO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 19 is a protein called 30S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AP	83	Total	C	N	O	S	0	0	0
			701	443	139	118	1			
19	CP	83	Total	C	N	O	S	0	0	0
			701	443	139	118	1			

- Molecule 20 is a protein called 30S ribosomal protein S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AQ	99	Total	C	N	O	S	0	0	0
			824	528	152	142	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	CQ	99	Total	C	N	O	S	0	0	0
			824	528	152	142	2			

- Molecule 21 is a protein called 30S ribosomal protein S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AR	70	Total	C	N	O	0	0	0
			574	367	112	95			
21	CR	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 22 is a protein called 30S ribosomal protein S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AS	78	Total	C	N	O	S	0	0	0
			630	403	114	111	2			
22	CS	78	Total	C	N	O	S	0	0	0
			630	403	114	111	2			

- Molecule 23 is a protein called 30S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			
23	CT	99	Total	C	N	O	S	0	0	0
			762	469	162	129	2			

- Molecule 24 is a protein called 30S ribosomal protein Thx.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
24	AU	24	Total	C	N	O	0	0	0
			209	128	50	31			
24	CU	24	Total	C	N	O	0	0	0
			209	128	50	31			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	BA	2789	Total	C	N	O	P	0	0	0
			60059	26734	11225	19312	2788			
25	DA	2789	Total	C	N	O	P	0	0	0
			60059	26734	11225	19312	2788			

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
BA	276	C	A	conflict	GB AE017221.1
BA	277	A	C	conflict	GB AE017221.1
BA	1141A	U	C	conflict	GB AE017221.1
BA	2825	U	G	conflict	GB AE017221.1
DA	276	C	A	conflict	GB AE017221.1
DA	277	A	C	conflict	GB AE017221.1
DA	1141A	U	C	conflict	GB AE017221.1
DA	2825	U	G	conflict	GB AE017221.1

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
26	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 27 is a protein called 50S ribosomal protein L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	BD	271	Total	C	N	O	S	0	0	0
			2105	1329	416	357	3			
27	DD	271	Total	C	N	O	S	0	0	0
			2105	1329	416	357	3			

- Molecule 28 is a protein called 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	BE	204	Total	C	N	O	S	0	0	0
			1564	988	299	271	6			
28	DE	204	Total	C	N	O	S	0	0	0
			1564	988	299	271	6			

- Molecule 29 is a protein called 50S ribosomal protein L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	BF	202	Total	C	N	O	S	0	0	0
			1587	1011	297	276	3			
29	DF	202	Total	C	N	O	S	0	0	0
			1587	1011	297	276	3			

- Molecule 30 is a protein called 50S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	BG	181	Total	C	N	O	S	0	0	0
			1475	943	268	260	4			
30	DG	181	Total	C	N	O	S	0	0	0
			1475	943	268	260	4			

- Molecule 31 is a protein called 50S ribosomal protein L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	BH	159	Total	C	N	O	S	0	0	0
			1223	773	228	221	1			
31	DH	159	Total	C	N	O	S	0	0	0
			1223	773	228	221	1			

- Molecule 32 is a protein called 50S ribosomal protein L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	BI	145	Total	C	N	O	S	0	0	0
			1133	724	200	208	1			
32	DI	145	Total	C	N	O	S	0	0	0
			1133	724	200	208	1			

- Molecule 33 is a protein called 50S ribosomal protein L11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	BK	147	Total	C	N	O	S	0	0	0
			1088	692	191	199	6			
33	DK	147	Total	C	N	O	S	0	0	0
			1088	692	191	199	6			

- Molecule 34 is a protein called 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BN	137	Total	C	N	O	S	0	0	0
			1097	707	205	182	3			
34	DN	137	Total	C	N	O	S	0	0	0
			1097	707	205	182	3			

- Molecule 35 is a protein called 50S ribosomal protein L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BO	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			
35	DO	122	Total	C	N	O	S	0	0	0
			932	587	171	170	4			

- Molecule 36 is a protein called 50S ribosomal protein L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	BP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			
36	DP	146	Total	C	N	O	S	0	0	0
			1114	692	227	193	2			

- Molecule 37 is a protein called 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	BQ	134	Total	C	N	O	S	0	0	0
			1065	680	201	179	5			
37	DQ	134	Total	C	N	O	S	0	0	0
			1065	680	201	179	5			

- Molecule 38 is a protein called 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
38	BR	117	Total	C	N	O	0	0	0
			960	599	202	159			
38	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 39 is a protein called 50S ribosomal protein L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	BS	98	Total	C	N	O	0	0	0
			771	486	154	131			
39	DS	98	Total	C	N	O	0	0	0
			771	486	154	131			

- Molecule 40 is a protein called 50S ribosomal protein L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	BT	137	Total	C	N	O	S	0	0	0
			1144	713	234	196	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	DT	137	Total	C	N	O	S	0	0	0
			1144	713	234	196	1			

- Molecule 41 is a protein called 50S ribosomal protein L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	BU	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			
41	DU	117	Total	C	N	O	S	0	0	0
			964	610	202	151	1			

- Molecule 42 is a protein called 50S ribosomal protein L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
42	DV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 43 is a protein called 50S ribosomal protein L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	BW	112	Total	C	N	O	S	0	0	0
			891	560	175	154	2			
43	DW	112	Total	C	N	O	S	0	0	0
			891	560	175	154	2			

- Molecule 44 is a protein called 50S ribosomal protein L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
44	BX	92	Total	C	N	O	0	0	0
			726	471	131	124			
44	DX	92	Total	C	N	O	0	0	0
			726	471	131	124			

- Molecule 45 is a protein called 50S ribosomal protein L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	BY	100	Total	C	N	O	S	0	0	0
			776	500	148	124	4			
45	DY	100	Total	C	N	O	S	0	0	0
			776	500	148	124	4			

- Molecule 46 is a protein called 50S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	BZ	187	Total	C	N	O	S	0	0	0
			1483	945	264	272	2			
46	DZ	187	Total	C	N	O	S	0	0	0
			1483	945	264	272	2			

- Molecule 47 is a protein called 50S ribosomal protein L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	B0	76	Total	C	N	O	S	0	0	0
			605	376	126	102	1			
47	D0	76	Total	C	N	O	S	0	0	0
			605	376	126	102	1			

- Molecule 48 is a protein called 50S ribosomal protein L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	B1	88	Total	C	N	O	0	0	0
			695	435	141	119			
48	D1	88	Total	C	N	O	0	0	0
			695	435	141	119			

- Molecule 49 is a protein called 50S ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	B2	62	Total	C	N	O	S	0	0	0
			521	325	102	92	2			
49	D2	62	Total	C	N	O	S	0	0	0
			521	325	102	92	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	B3	59	Total	C	N	O	S	0	0	0
			468	298	90	79	1			
50	D3	59	Total	C	N	O	S	0	0	0
			468	298	90	79	1			

- Molecule 51 is a protein called 50S ribosomal protein L31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	B4	30	Total	C	N	O	S	0	0	0
			226	142	36	44	4			
51	D4	30	Total	C	N	O	S	0	0	0
			226	142	36	44	4			

- Molecule 52 is a protein called 50S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	B5	52	Total	C	N	O	S	0	0	0
			405	255	79	66	5			
52	D5	52	Total	C	N	O	S	0	0	0
			405	255	79	66	5			

- Molecule 53 is a protein called 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	B6	44	Total	C	N	O	S	0	0	0
			381	235	77	65	4			
53	D6	44	Total	C	N	O	S	0	0	0
			381	235	77	65	4			

- Molecule 54 is a protein called 50S ribosomal protein L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	B7	48	Total	C	N	O	S	0	0	0
			419	257	104	56	2			
54	D7	48	Total	C	N	O	S	0	0	0
			419	257	104	56	2			

- Molecule 55 is a protein called 50S ribosomal protein L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	B8	63	Total	C	N	O	S	0	0	0
			508	326	101	79	2			
55	D8	63	Total	C	N	O	S	0	0	0
			508	326	101	79	2			

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

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	AA	393	Total	Mg	0	0
			393	393		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	AV	1	Total Mg 1 1	0	0
56	AW	18	Total Mg 18 18	0	0
56	AY	3	Total Mg 3 3	0	0
56	AC	1	Total Mg 1 1	0	0
56	AG	1	Total Mg 1 1	0	0
56	AO	1	Total Mg 1 1	0	0
56	AQ	1	Total Mg 1 1	0	0
56	AT	3	Total Mg 3 3	0	0
56	BA	824	Total Mg 824 824	0	0
56	BB	23	Total Mg 23 23	0	0
56	BD	1	Total Mg 1 1	0	0
56	BE	1	Total Mg 1 1	0	0
56	BF	1	Total Mg 1 1	0	0
56	BP	1	Total Mg 1 1	0	0
56	BT	1	Total Mg 1 1	0	0
56	BX	2	Total Mg 2 2	0	0
56	BY	1	Total Mg 1 1	0	0
56	B0	2	Total Mg 2 2	0	0
56	B1	1	Total Mg 1 1	0	0
56	B3	1	Total Mg 1 1	0	0
56	B5	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	B8	2	Total Mg 2 2	0	0
56	CA	326	Total Mg 326 326	0	0
56	CV	2	Total Mg 2 2	0	0
56	CW	16	Total Mg 16 16	0	0
56	CY	2	Total Mg 2 2	0	0
56	CD	1	Total Mg 1 1	0	0
56	CM	1	Total Mg 1 1	0	0
56	CR	1	Total Mg 1 1	0	0
56	DA	732	Total Mg 732 732	0	0
56	DB	20	Total Mg 20 20	0	0
56	DD	1	Total Mg 1 1	0	0
56	DE	1	Total Mg 1 1	0	0
56	DF	2	Total Mg 2 2	0	0
56	DH	1	Total Mg 1 1	0	0
56	DI	2	Total Mg 2 2	0	0
56	DN	1	Total Mg 1 1	0	0
56	DP	2	Total Mg 2 2	0	0
56	DQ	4	Total Mg 4 4	0	0
56	DV	1	Total Mg 1 1	0	0
56	DW	2	Total Mg 2 2	0	0
56	DX	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	D0	1	Total Mg 1 1	0	0
56	D1	1	Total Mg 1 1	0	0
56	D5	3	Total Mg 3 3	0	0
56	D7	2	Total Mg 2 2	0	0

- Molecule 57 is ZINC ION (three-letter code: ZN) (formula: Zn).

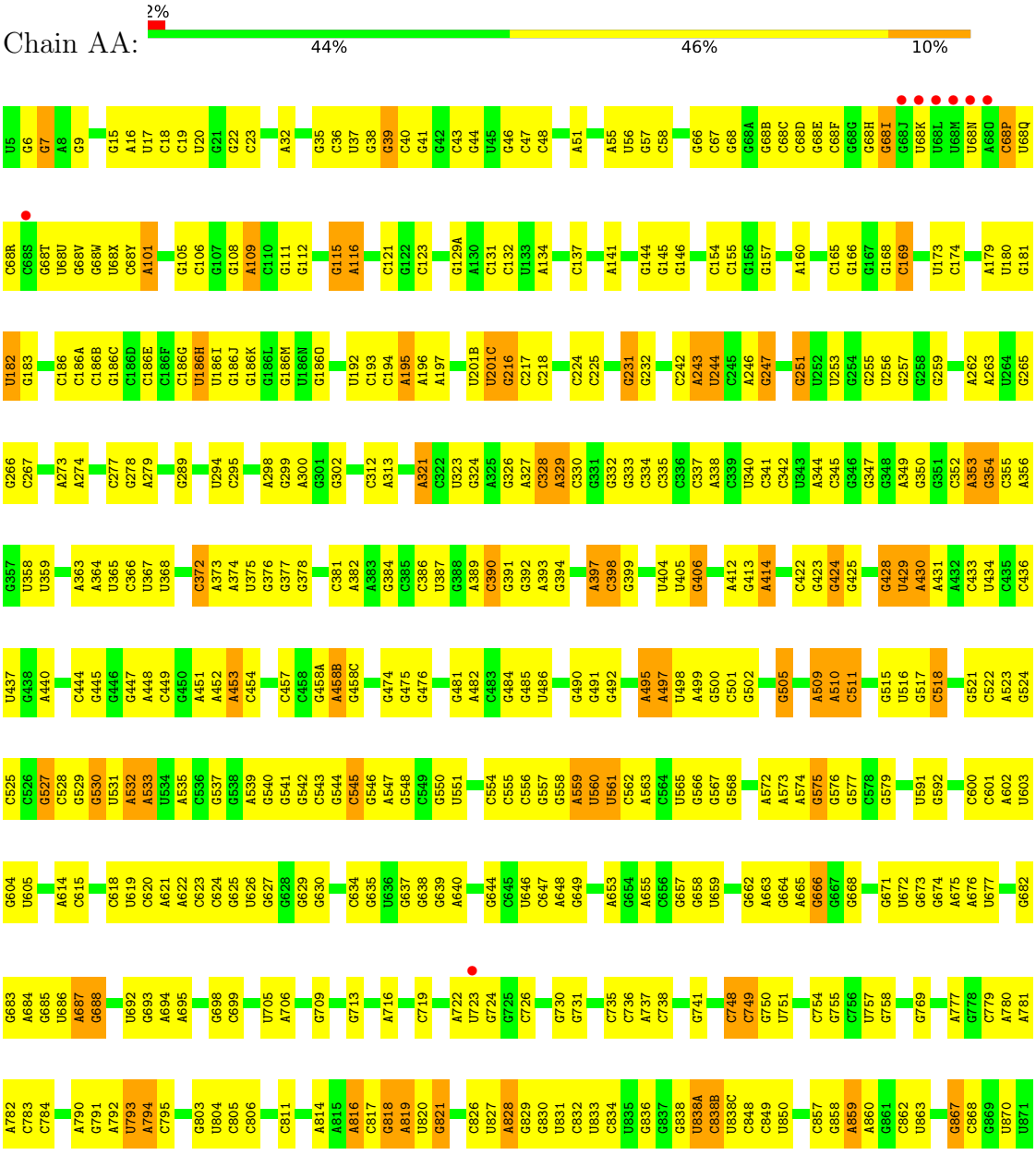
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
57	AD	1	Total Zn 1 1	0	0
57	AN	1	Total Zn 1 1	0	0
57	CD	1	Total Zn 1 1	0	0
57	CN	1	Total Zn 1 1	0	0

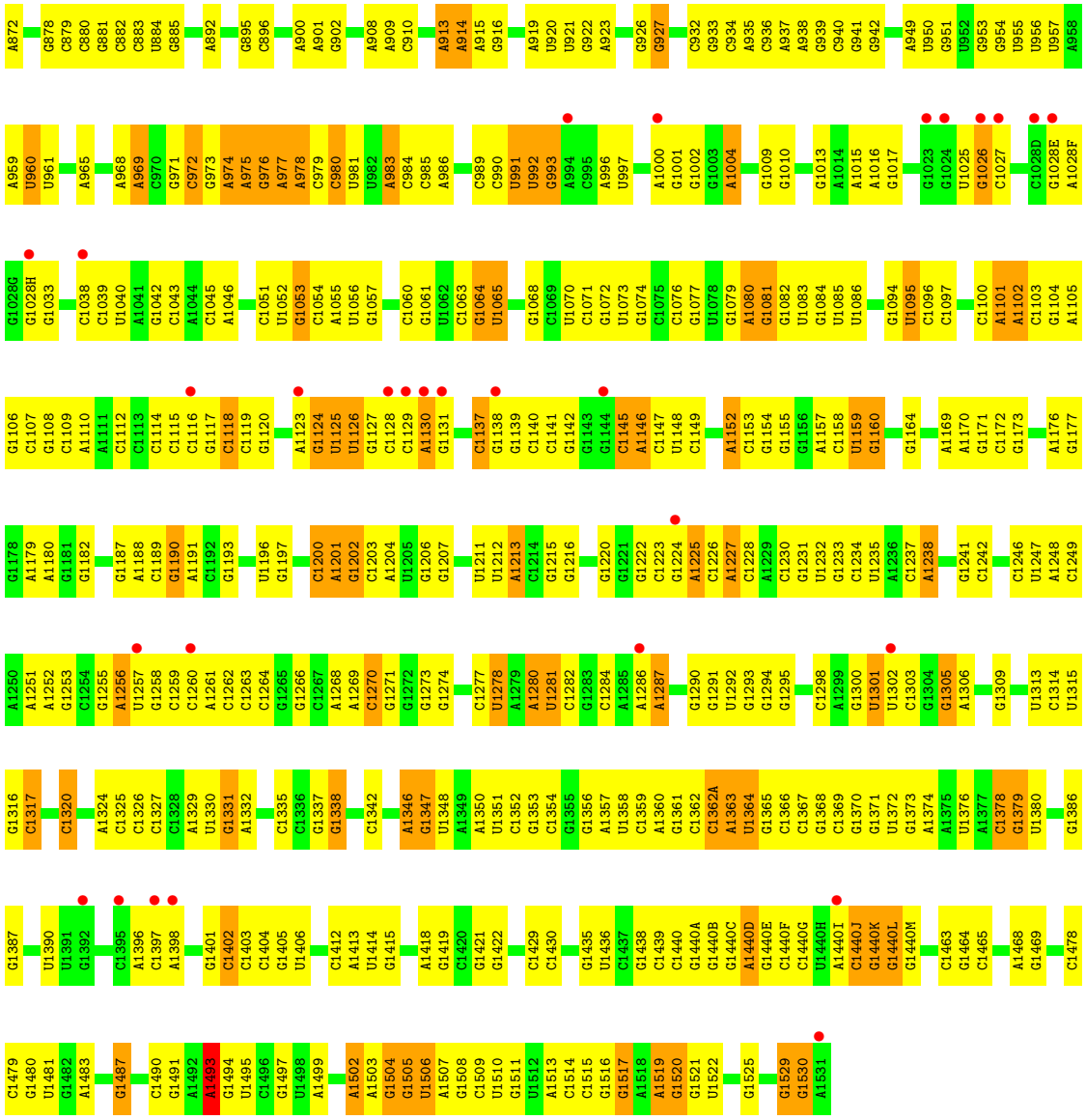
3 Residue-property plots (i)

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 rRNA (1504-MER)

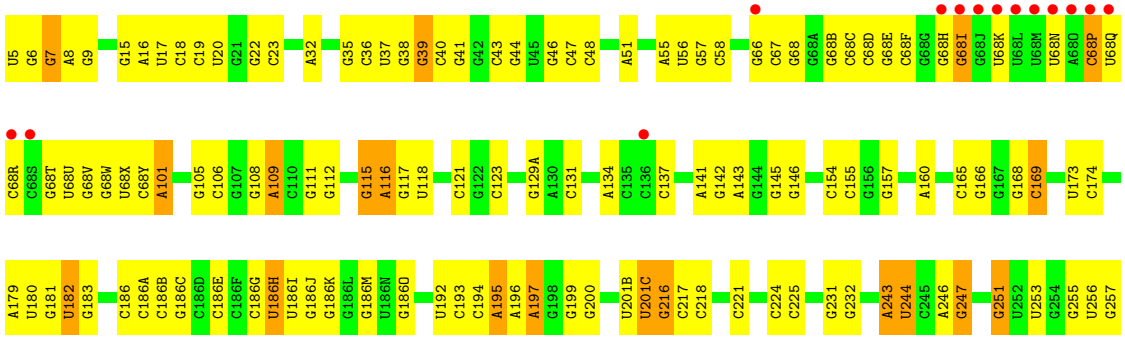
Chain AA:

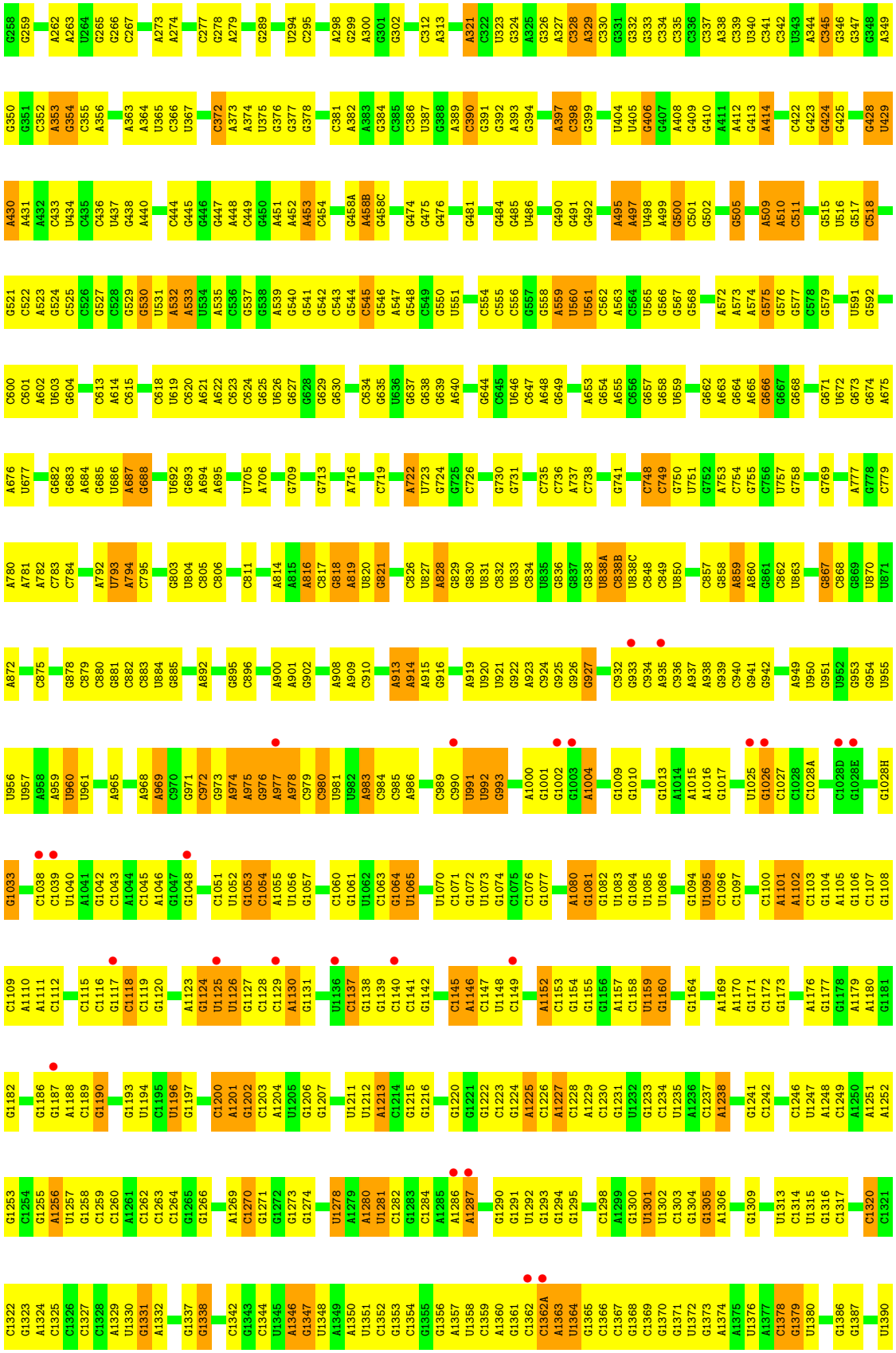


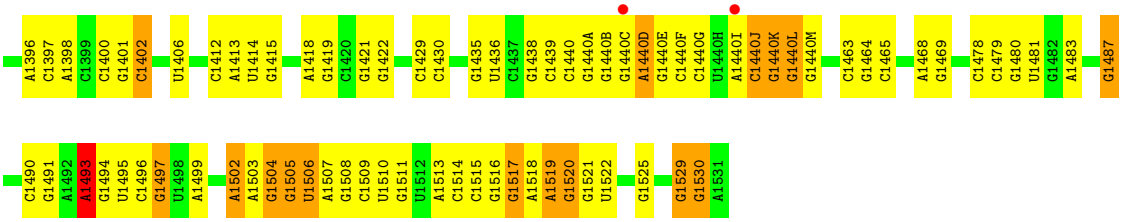


• Molecule 1: 16S rRNA (1504-MER)

Chain CA:

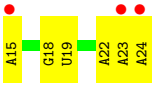






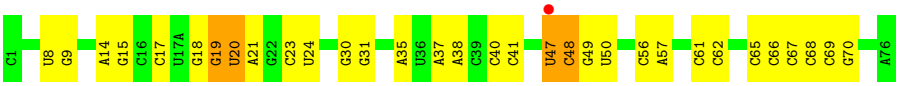
• Molecule 2: messenger RNA (5'-R(*AP*AP*UP*GP*UP*AP*G)-3')

• Molecule 2: messenger RNA (5'-R(*AP*AP*UP*GP*UP*AP*G)-3')

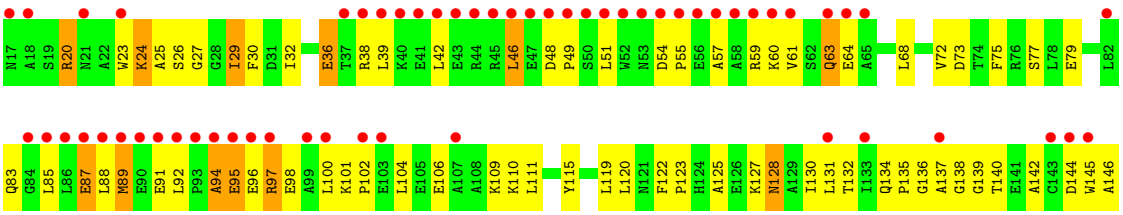


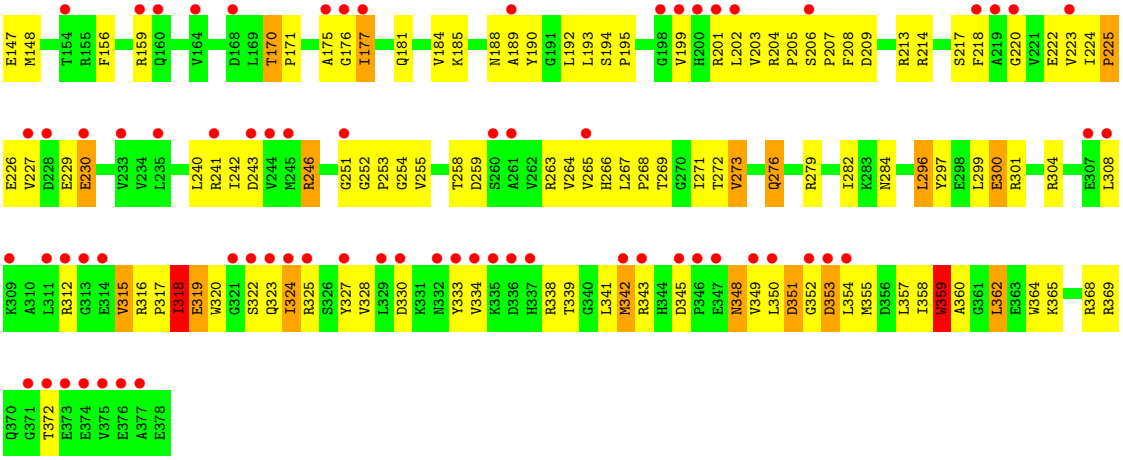
• Molecule 3: P-site tRNA-fMet

• Molecule 3: P-site tRNA-fMet



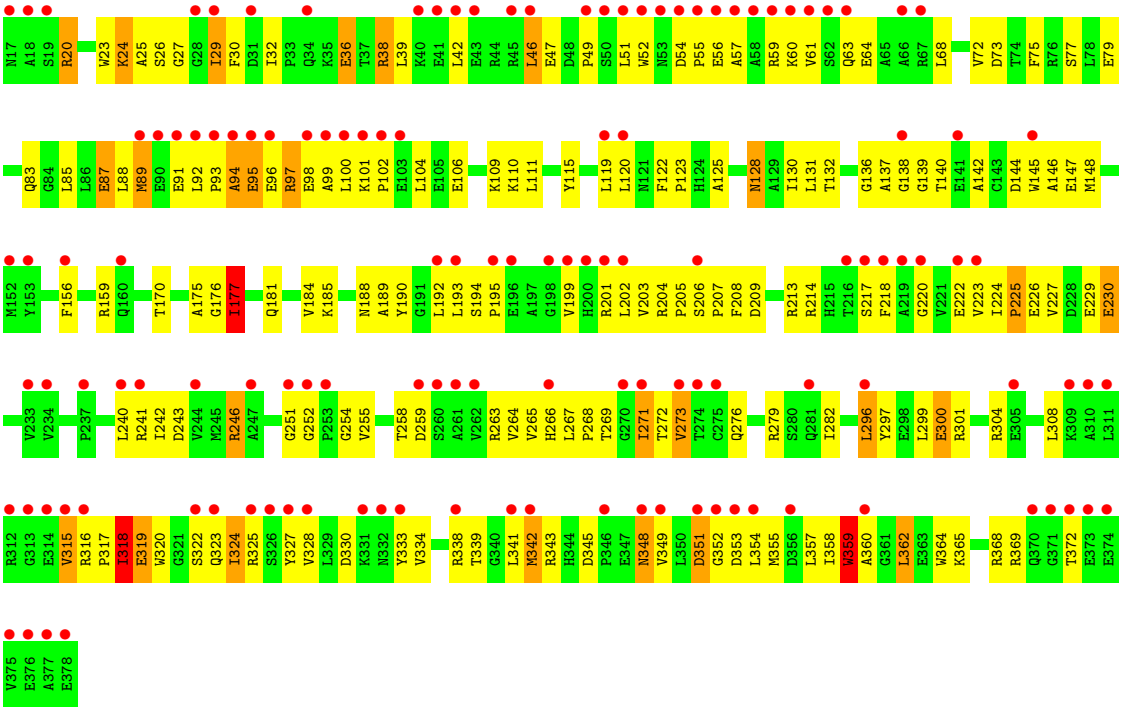
• Molecule 4: Bacterial peptide chain release factor 2 (RF-2)





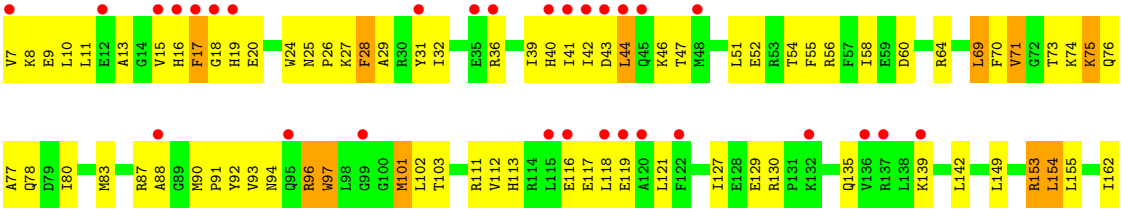
• Molecule 4: Bacterial peptide chain release factor 2 (RF-2)

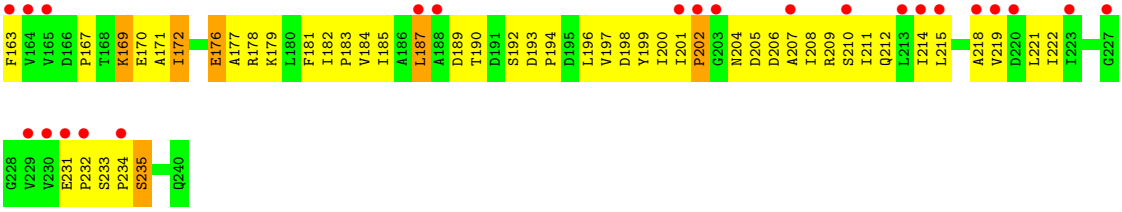
Chain CY:



• Molecule 5: 30S ribosomal protein S2

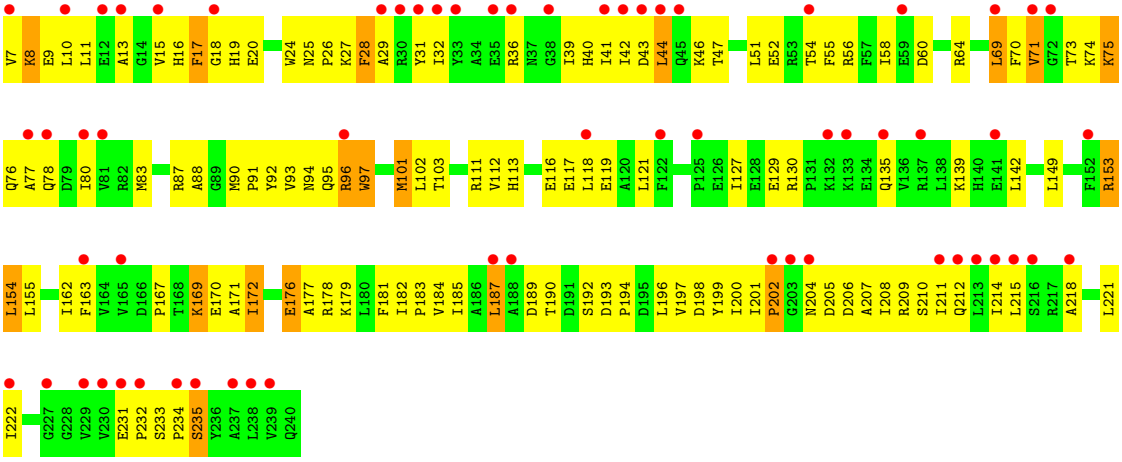
Chain AB:





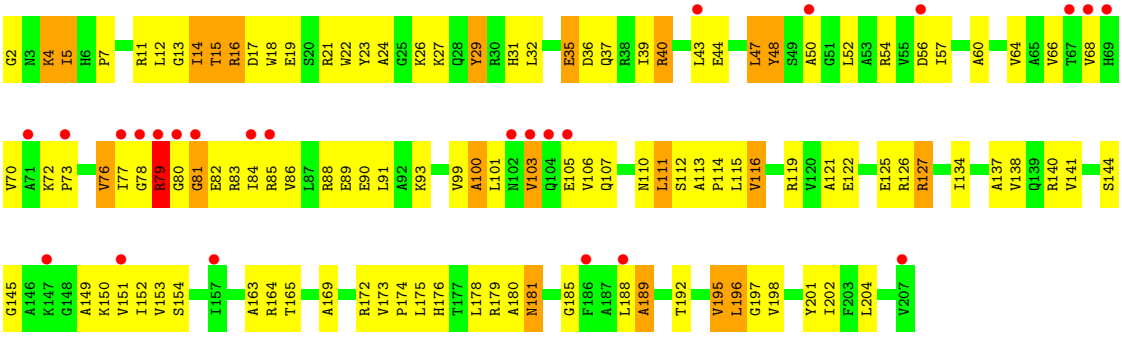
• Molecule 5: 30S ribosomal protein S2

Chain CB:



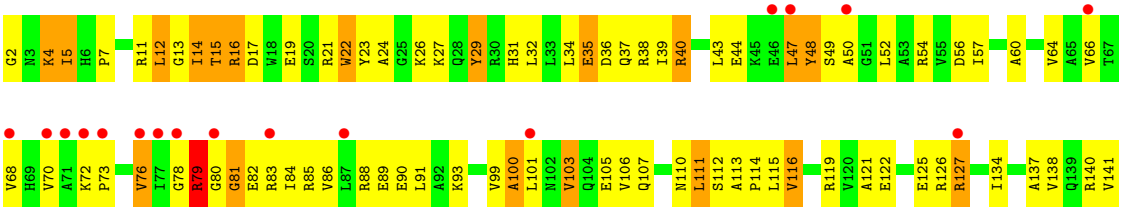
• Molecule 6: 30S ribosomal protein S3

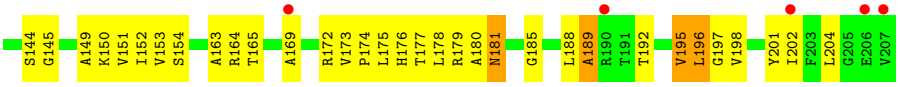
Chain AC:



• Molecule 6: 30S ribosomal protein S3

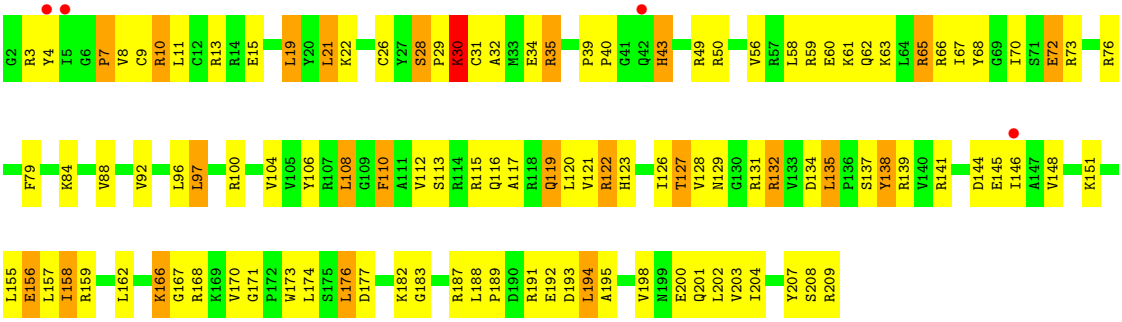
Chain CC:





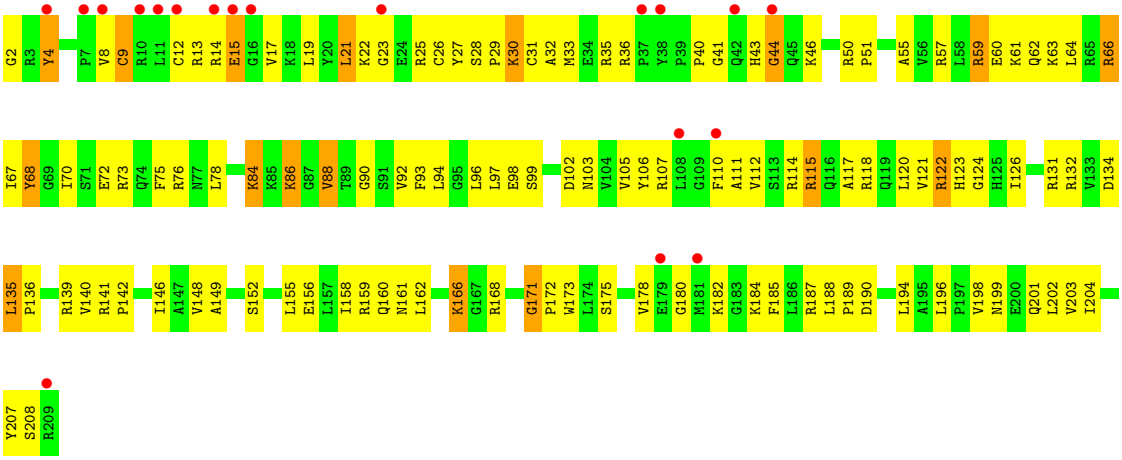
• Molecule 7: 30S ribosomal protein S4

Chain AD:



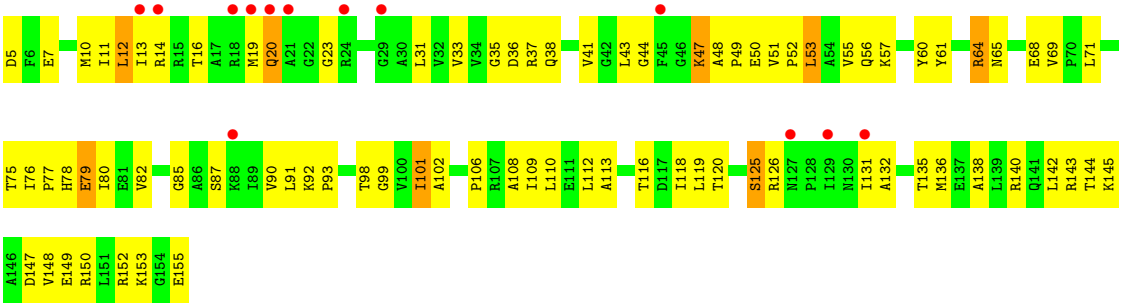
• Molecule 7: 30S ribosomal protein S4

Chain CD:



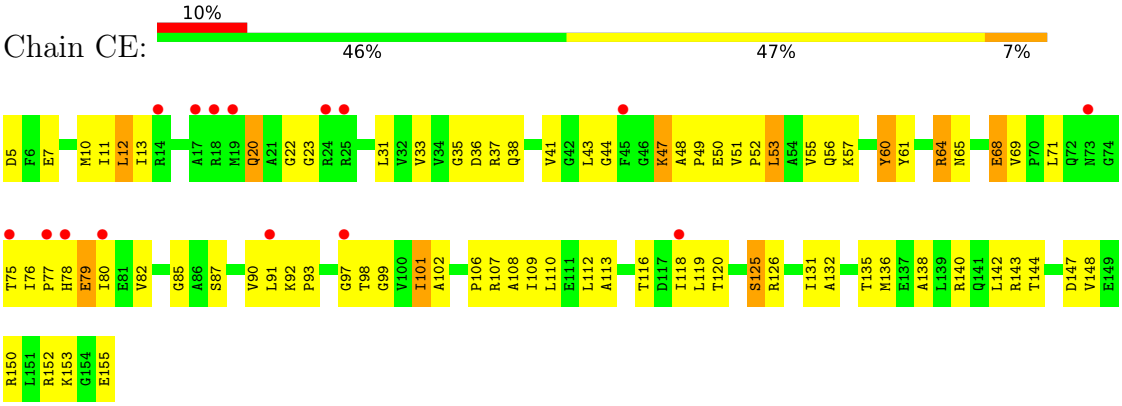
• Molecule 8: 30S ribosomal protein S5

Chain AE:



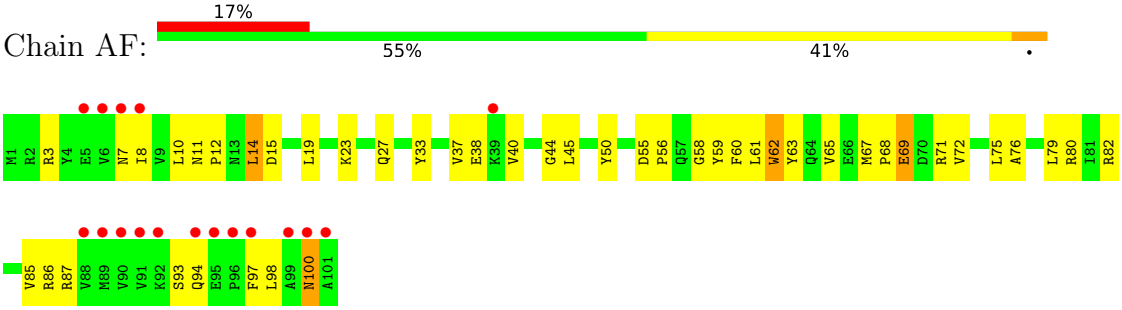
• Molecule 8: 30S ribosomal protein S5

Chain CE:



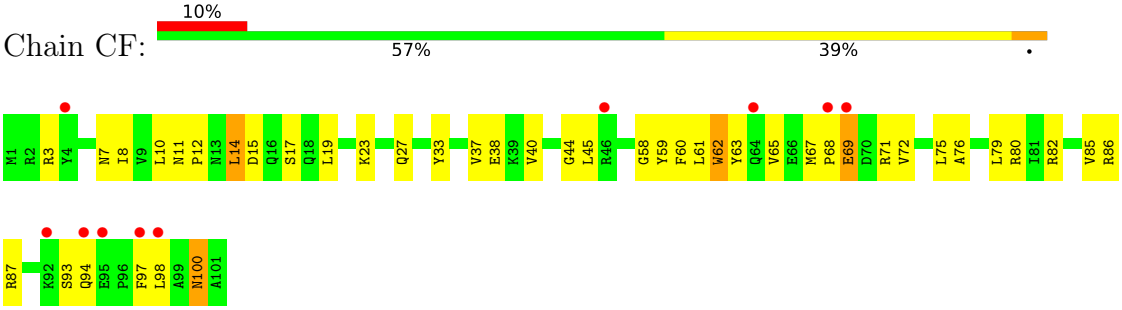
• Molecule 9: 30S ribosomal protein S6

Chain AF:



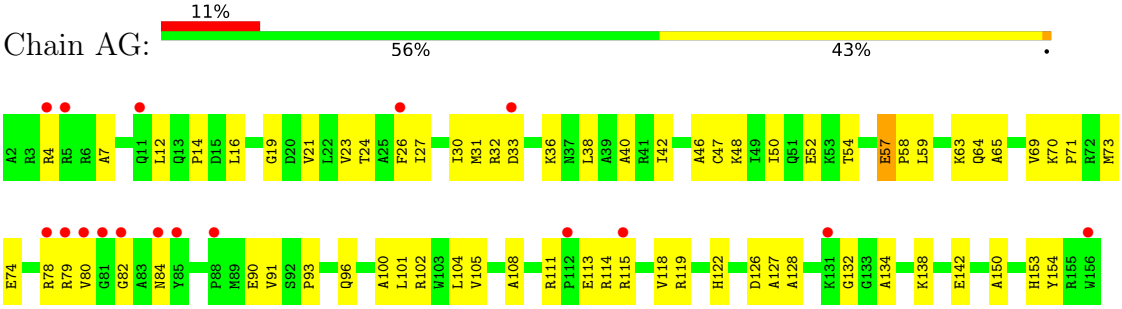
• Molecule 9: 30S ribosomal protein S6

Chain CF:



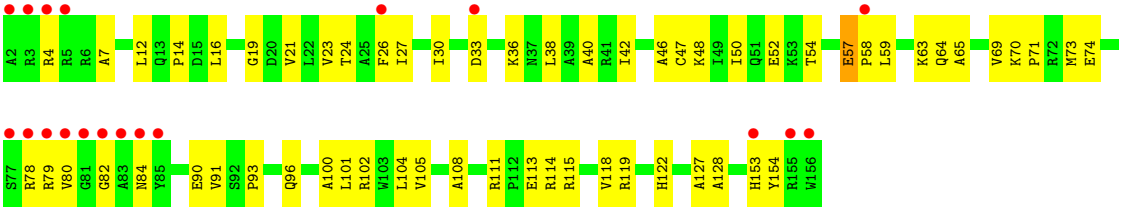
• Molecule 10: 30S ribosomal protein S7

Chain AG:

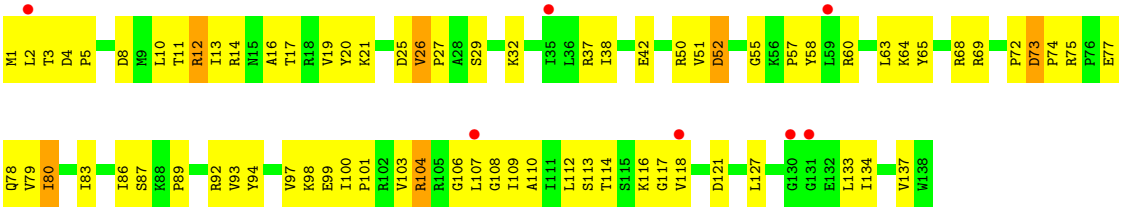


• Molecule 10: 30S ribosomal protein S7

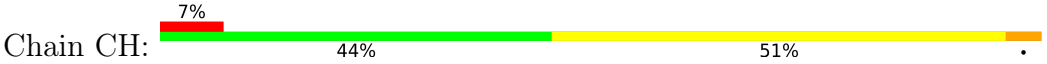
Chain CG:

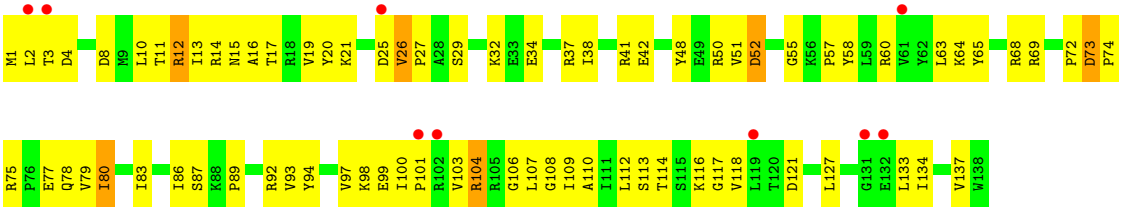


• Molecule 11: 30S ribosomal protein S8

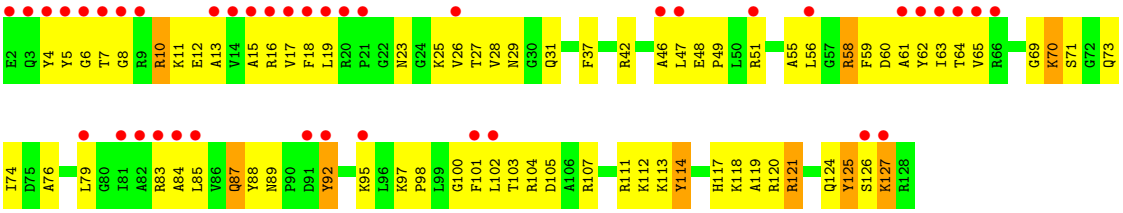


• Molecule 11: 30S ribosomal protein S8

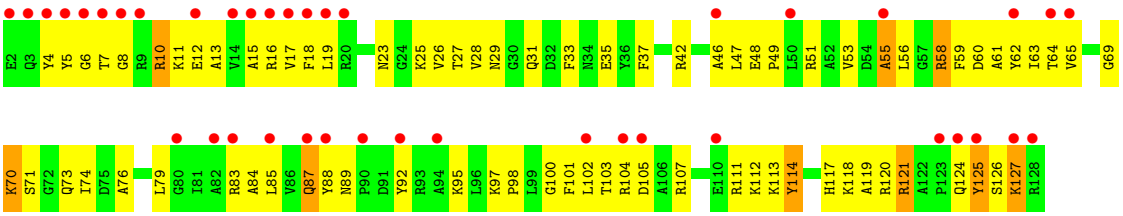




• Molecule 12: 30S ribosomal protein S9

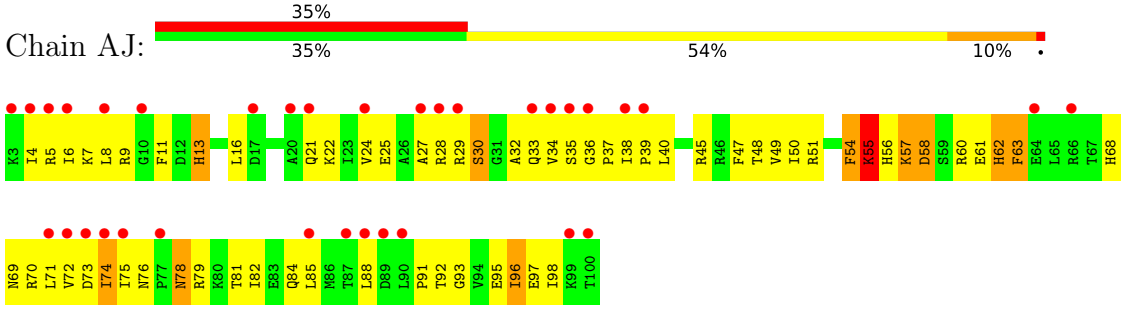


• Molecule 12: 30S ribosomal protein S9



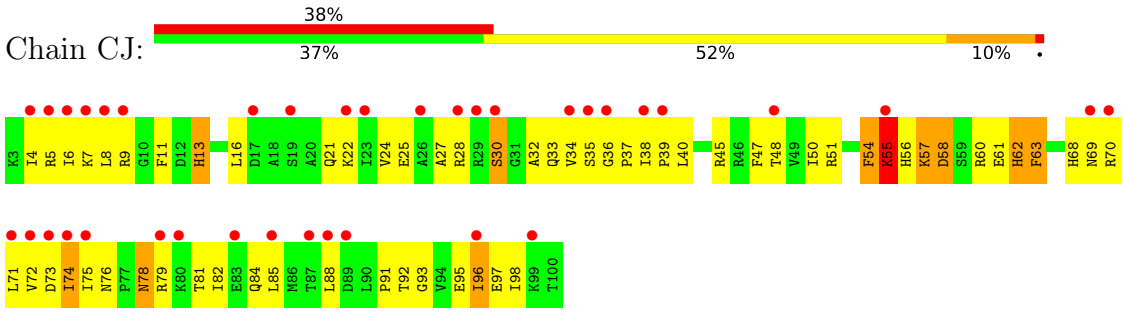
• Molecule 13: 30S ribosomal protein S10

Chain AJ:



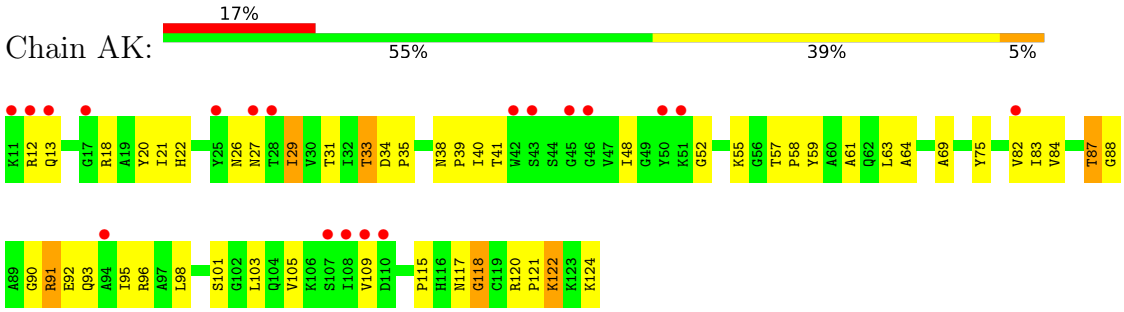
• Molecule 13: 30S ribosomal protein S10

Chain CJ:



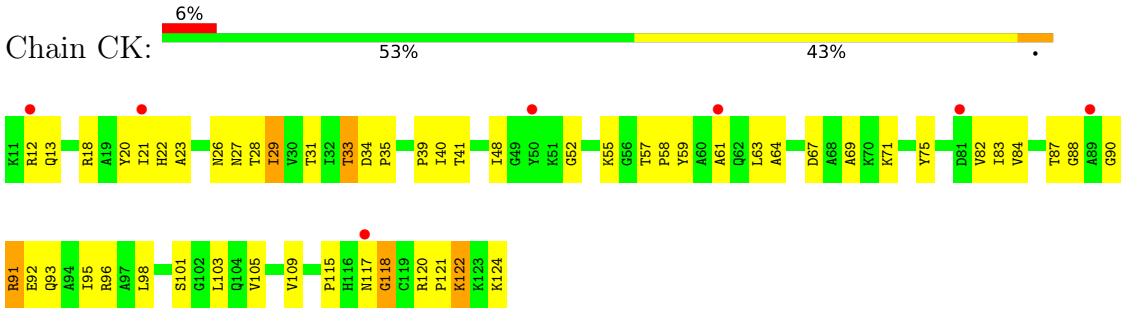
• Molecule 14: 30S ribosomal protein S11

Chain AK:



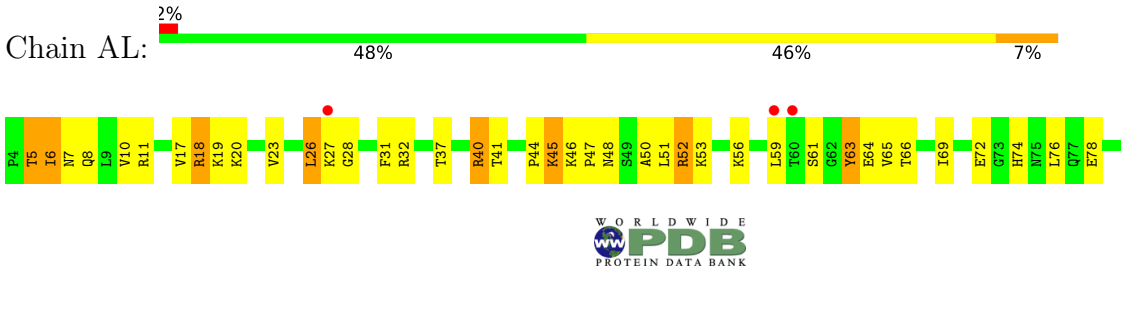
• Molecule 14: 30S ribosomal protein S11

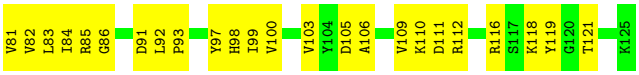
Chain CK:



• Molecule 15: 30S ribosomal protein S12

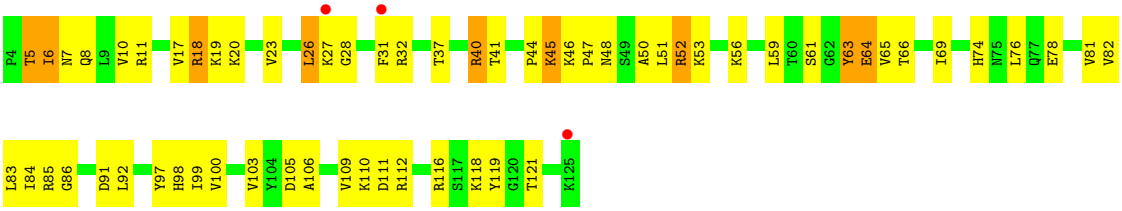
Chain AL:





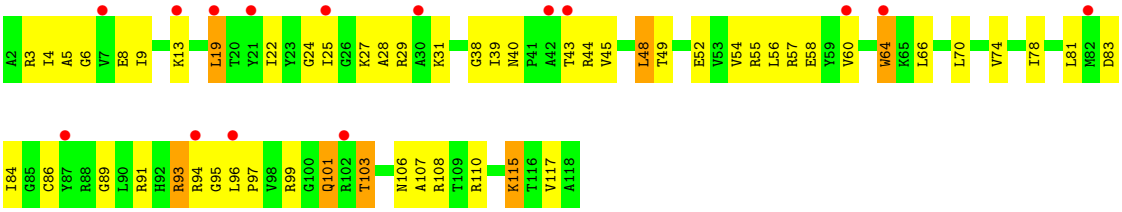
• Molecule 15: 30S ribosomal protein S12

Chain CL:



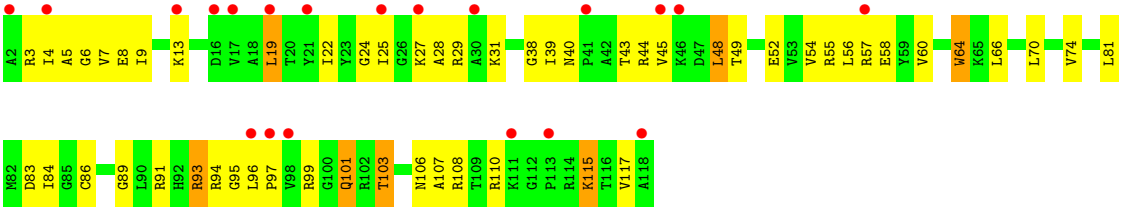
• Molecule 16: 30S ribosomal protein S13

Chain AM:



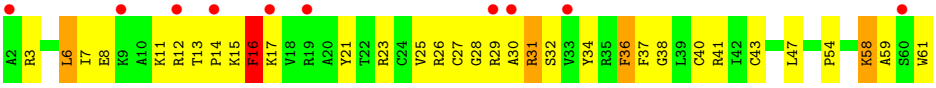
• Molecule 16: 30S ribosomal protein S13

Chain CM:



• Molecule 17: 30S ribosomal protein S14

Chain AN:

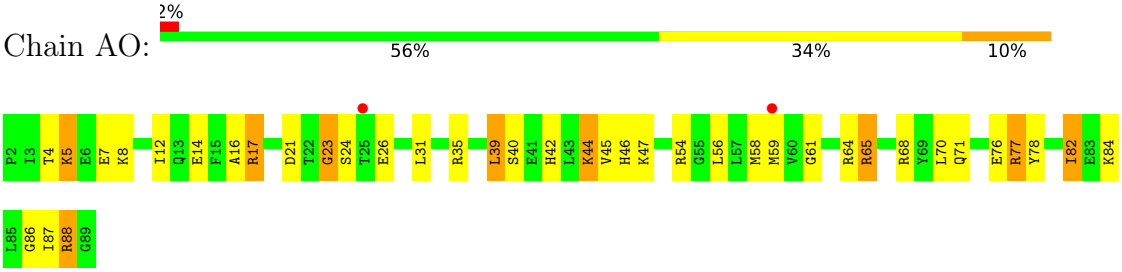


• Molecule 17: 30S ribosomal protein S14

Chain CN:

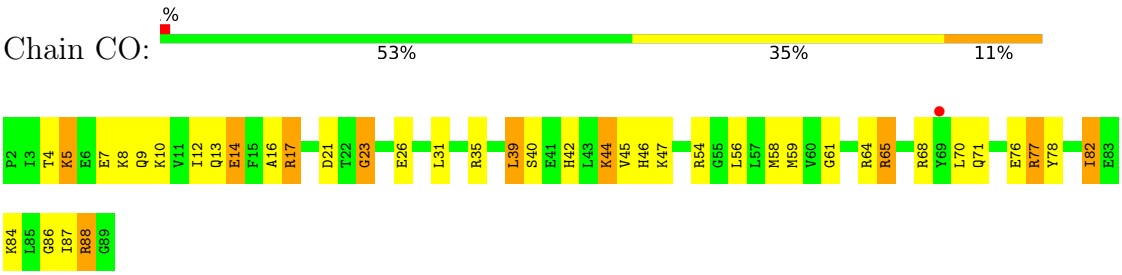
• Molecule 18: 30S ribosomal protein S15

Chain AO:



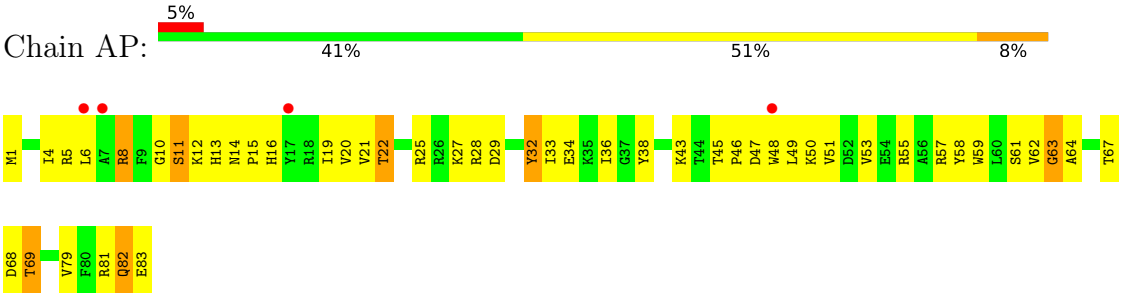
• Molecule 18: 30S ribosomal protein S15

Chain CO:



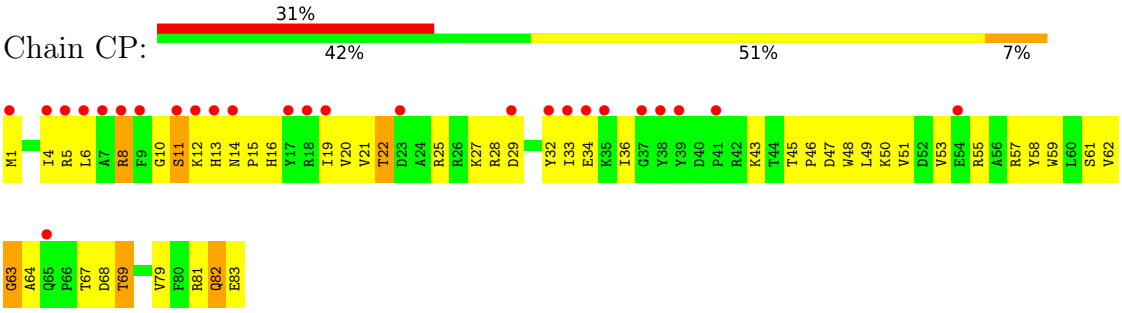
• Molecule 19: 30S ribosomal protein S16

Chain AP:



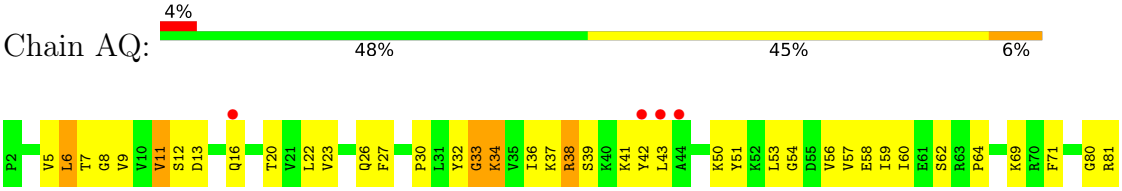
• Molecule 19: 30S ribosomal protein S16

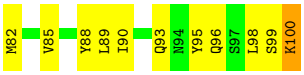
Chain CP:



• Molecule 20: 30S ribosomal protein S17

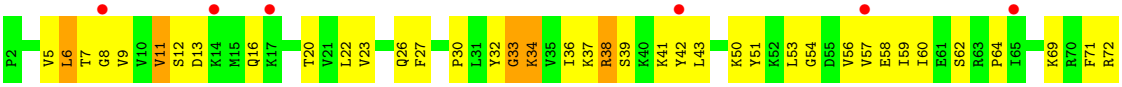
Chain AQ:

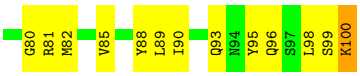




• Molecule 20: 30S ribosomal protein S17

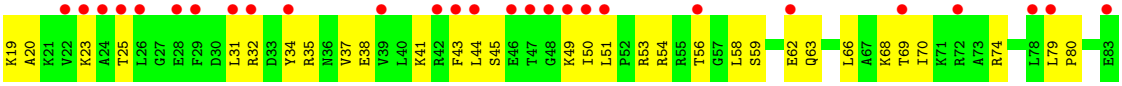
Chain CQ:





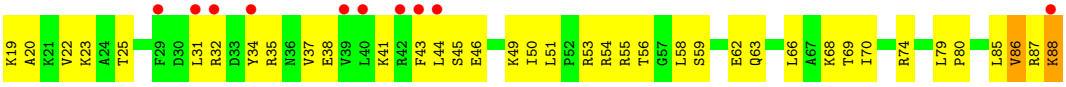
• Molecule 21: 30S ribosomal protein S18

Chain AR:



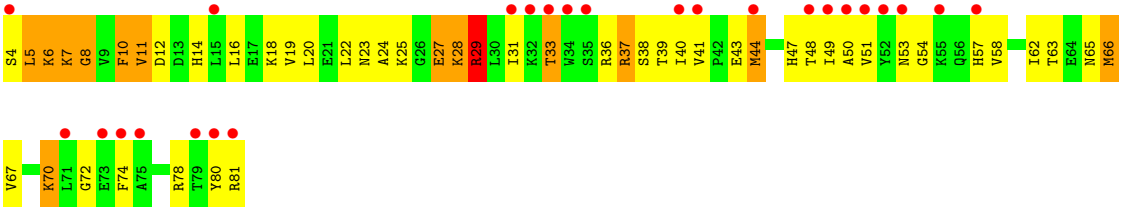
• Molecule 21: 30S ribosomal protein S18

Chain CR:



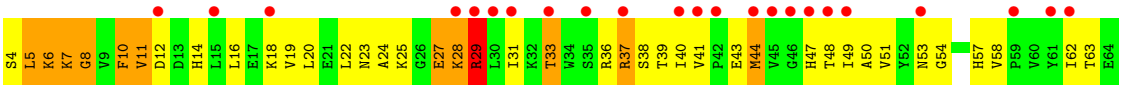
• Molecule 22: 30S ribosomal protein S19

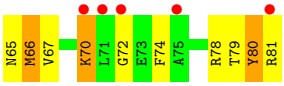
Chain AS:



• Molecule 22: 30S ribosomal protein S19

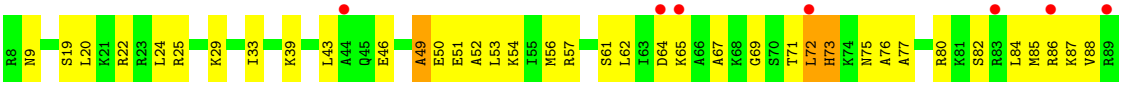
Chain CS:

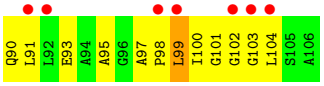




• Molecule 23: 30S ribosomal protein S20

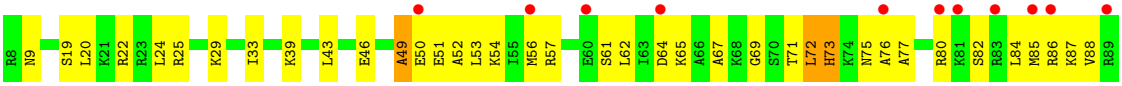
Chain AT:

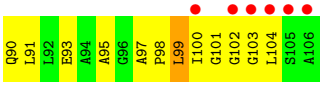




• Molecule 23: 30S ribosomal protein S20

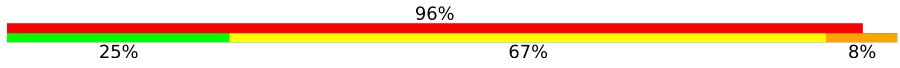
Chain CT:





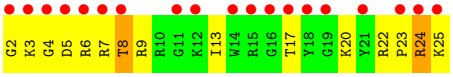
• Molecule 24: 30S ribosomal protein Thx

Chain AU:



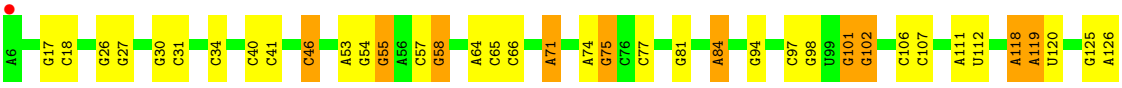
• Molecule 24: 30S ribosomal protein Thx

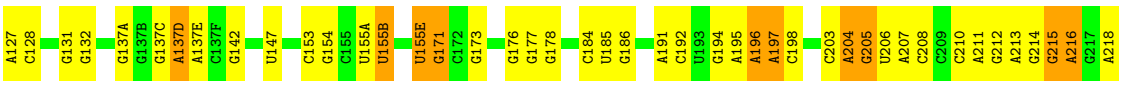
Chain CU:

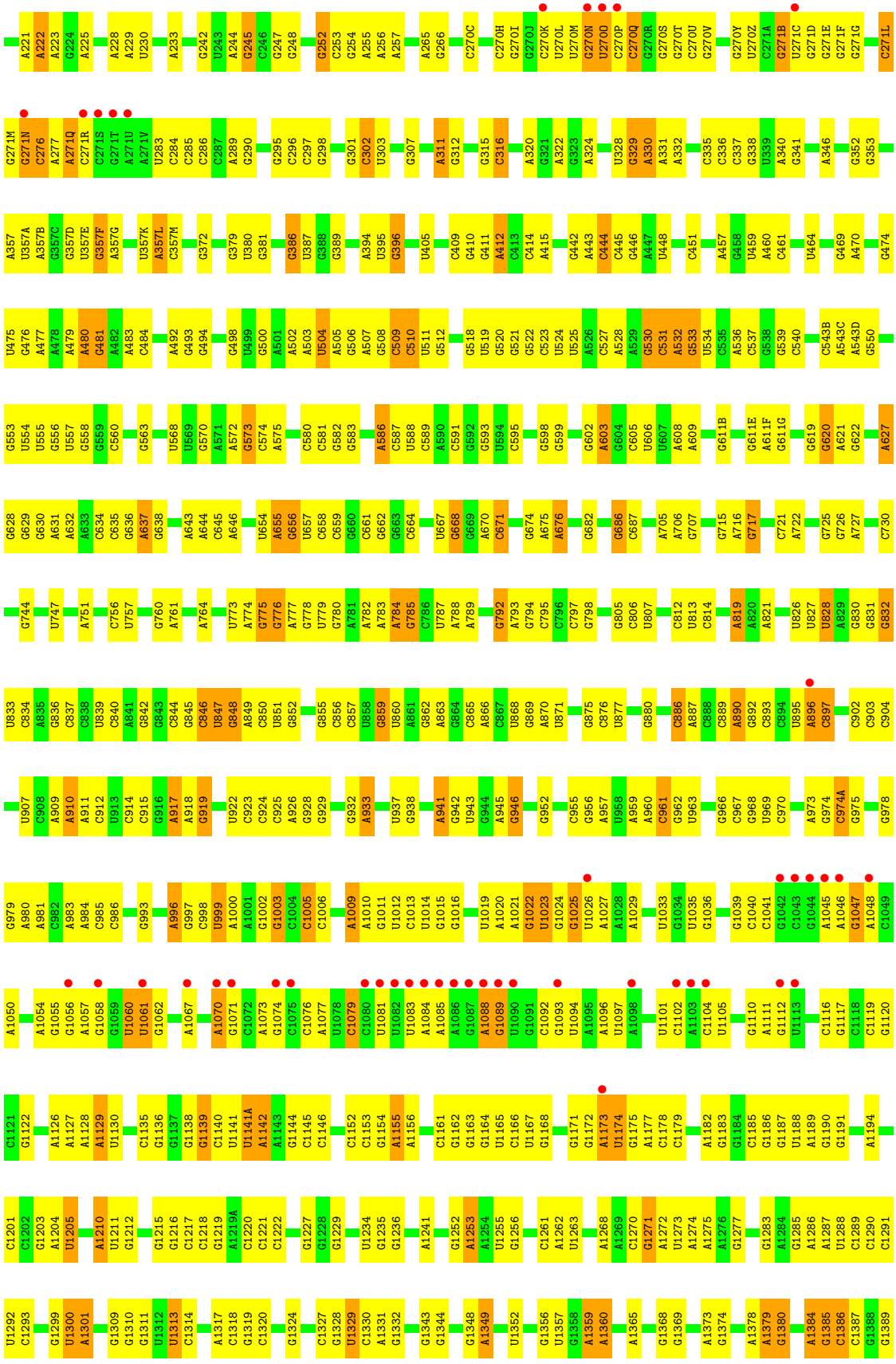


• Molecule 25: 23S ribosomal RNA

Chain BA:



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G271M G271N C276 A277 A271Q C271R C271S G271T A271U A271V U283 C284 C285 C286 C287 A289 G290 G295 C296 C297 G298 G301 C302 U303 G307 A311 G312 G315 C316 A320 G321 A322 G323 A324 U328 G329 A330 A331 A332 C335 C336 C337 G338 U339 A340 G341 A346 G352 G353
A357 U357A A357B G357C G357D U357E G357F A357G U357K A357L C357M G372 G379 U380 G381 G386 U387 G388 G389 A394 U395 G396 U405 C409 G410 G411 A412 C413 C414 A415 G442 A443 C444 C445 G446 A447 U448 C451 A457 G458 U459 A460 C461 U464 G469 A470 G474
U475 G476 A477 A478 A479 A480 G481 A482 A483 C484 A492 G493 G494 G498 U499 G500 A501 A502 A503 U504 A505 G506 A507 G508 C509 C510 U511 G512 G518 U519 G520 G521 G522 C523 U524 U525 A526 C527 A528 A529 G530 C531 A532 G533 U534 C535 A536 C537 G538 G539 C540 C543B A543C A543D G550
G553 U554 U555 G556 U557 G558 G559 C560 G563 U568 U569 G570 A571 A572 G573 C574 A575 C580 C581 G582 G583 A586 C587 U588 C589 A590 C591 G592 G593 U594 C595 G598 G599 G602 A603 G604 C605 U606 U607 A608 A609 G611B G611E A611F G611G G619 G620 A621 G622 A627
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G979 A980 A981 C982 A983 A984 C985 C986 G993 A996 G997 C998 U999 A1000 A1001 G1002 G1003 C1004 C1005 C1006 A1009 A1010 G1011 U1012 C1013 U1014 G1015 G1016 U1019 A1020 A1021 G1022 U1023 G1024 G1025 U1026 A1027 A1028 A1029 U1033 G1034 U1035 G1036 G1039 C1040 C1041 G1042 C1043 G1044 A1045 A1046 G1047 A1048 C1049
A1050 A1054 G1055 G1056 A1057 G1058 G1059 U1060 U1061 G1062 A1067 A1070 G1071 C1072 A1073 G1074 C1075 C1076 A1077 U1078 C1079 C1080 U1081 U1082 U1083 A1084 A1085 A1086 G1087 A1088 G1089 U1090 G1091 C1092 G1093 U1094 A1095 A1096 U1097 A1098 U1101 C1102 A1103 C1104 U1105 G1110 A1111 G1112 U1113 C1116 G1117 C1118 C1119 G1120
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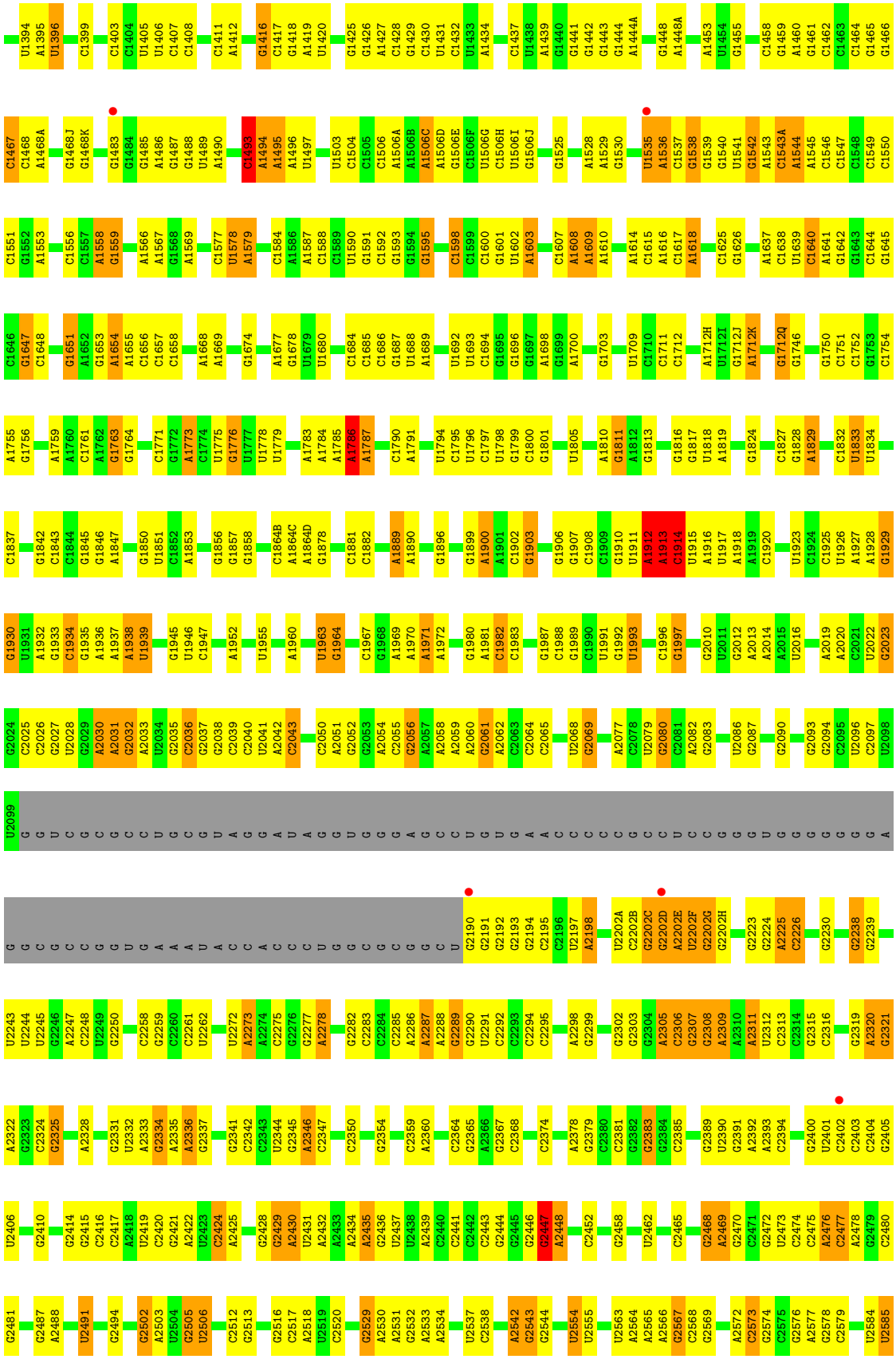
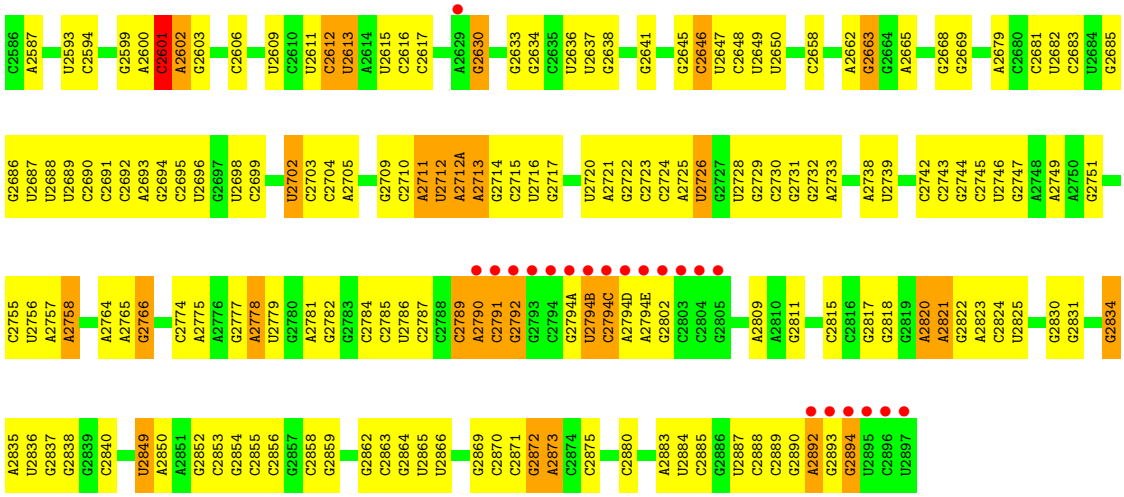
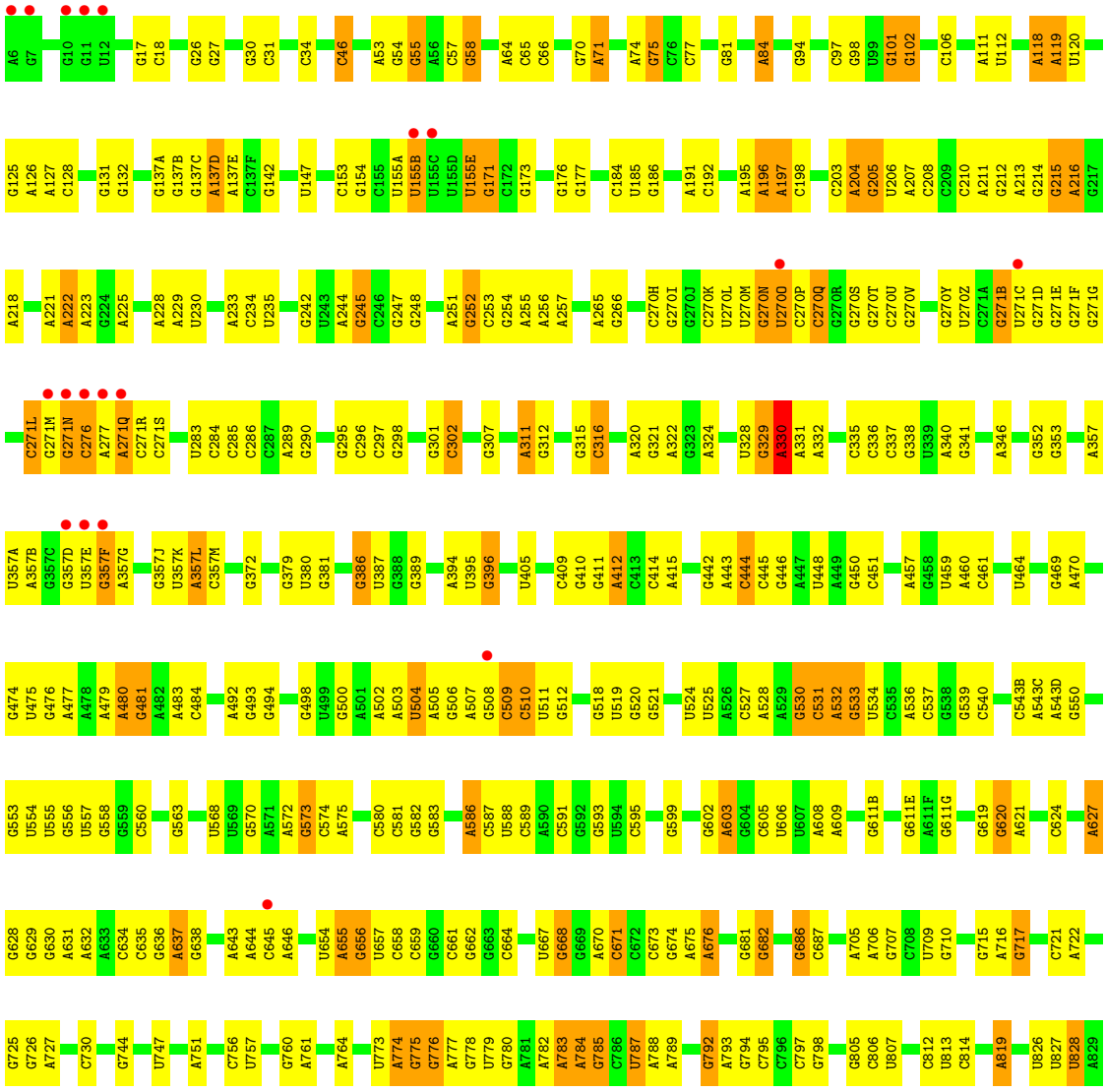
C1201 C1202 G1203 A1204 U1205 A1210 U1211 G1212 G1215 G1216 C1217 C1218 G1219 A1219A C1220 C1221 C1222 G1227 G1228 G1229 U1234 G1235 G1236 A1241 G1252 A1253 A1254 U1255 G1256 C1261 A1262 U1263 A1268 A1269 C1270 G1271 A1272 U1273 A1274 A1275 A1276 G1277 G1283 A1284 G1285 A1286 A1287 U1288 C1289 C1290 C1291
U1292 C1293 G1299 U1300 A1301 G1309 G1310 G1311 U1312 U1313 C1314 A1317 C1318 G1319 C1320 G1324 C1327 G1328 U1329 C1330 A1331 G1332 G1343 G1344 G1348 A1349 U1352 G1356 U1357 G1358 A1359 A1360 A1365 G1368 G1369 A1373 G1374 A1378 A1379 G1380 A1384 G1385 C1386 C1387 G1388 G1389

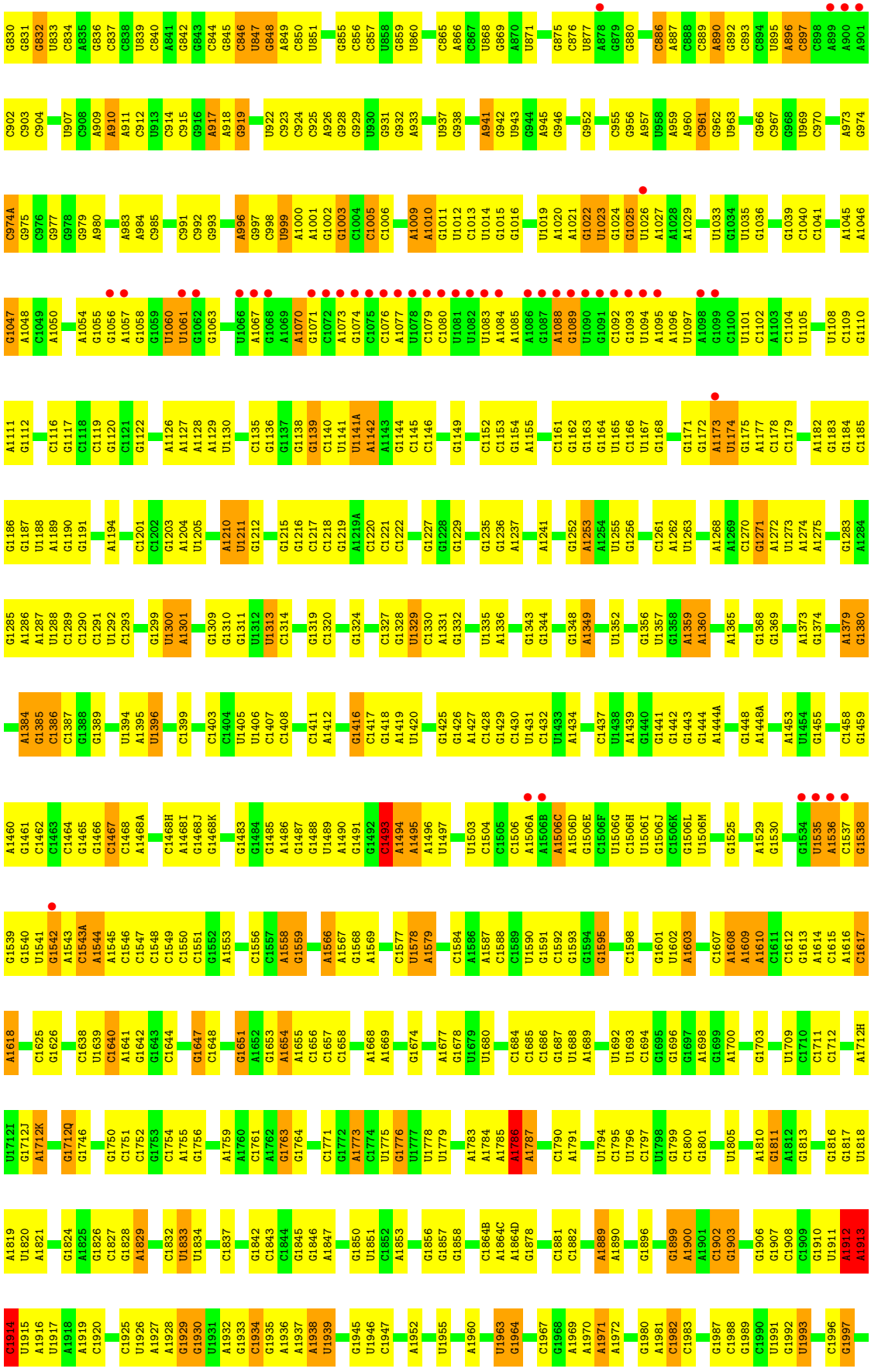


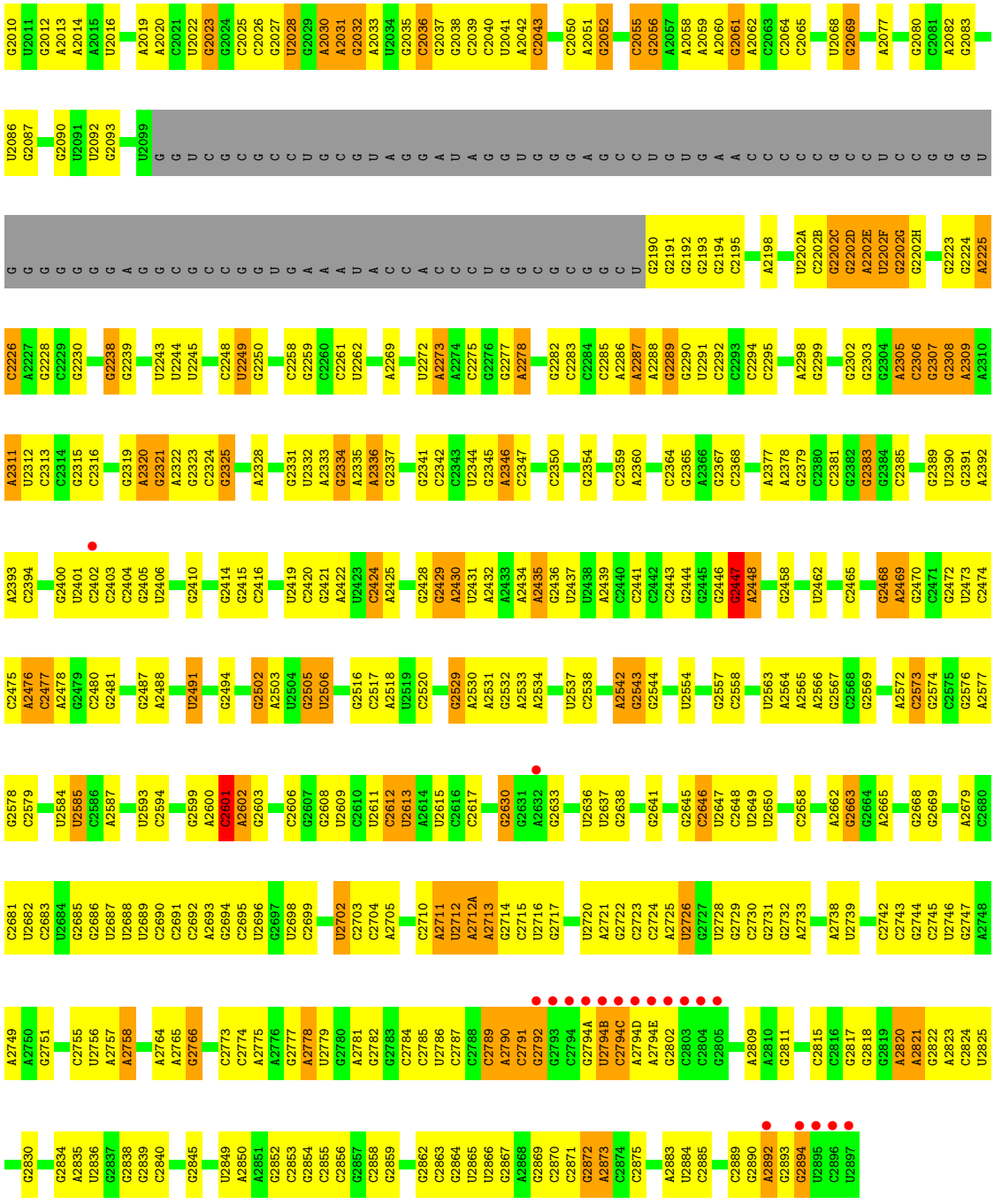


• Molecule 25: 23S ribosomal RNA

Chain DA:

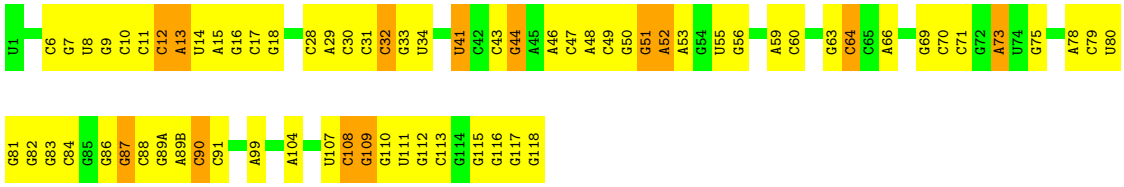






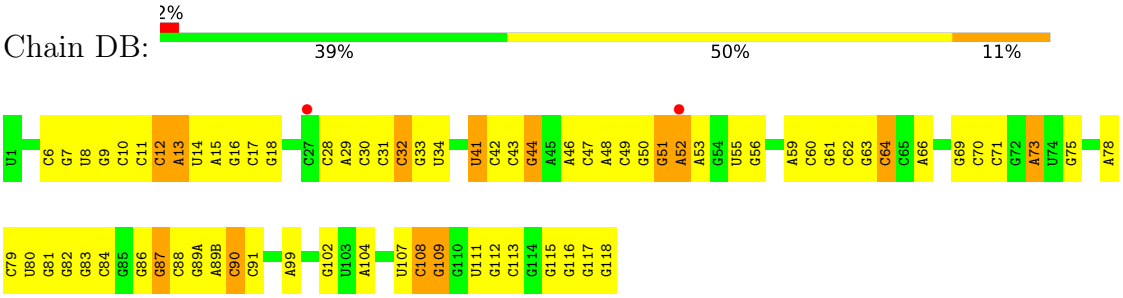
• Molecule 26: 5S ribosomal RNA

Chain BB:



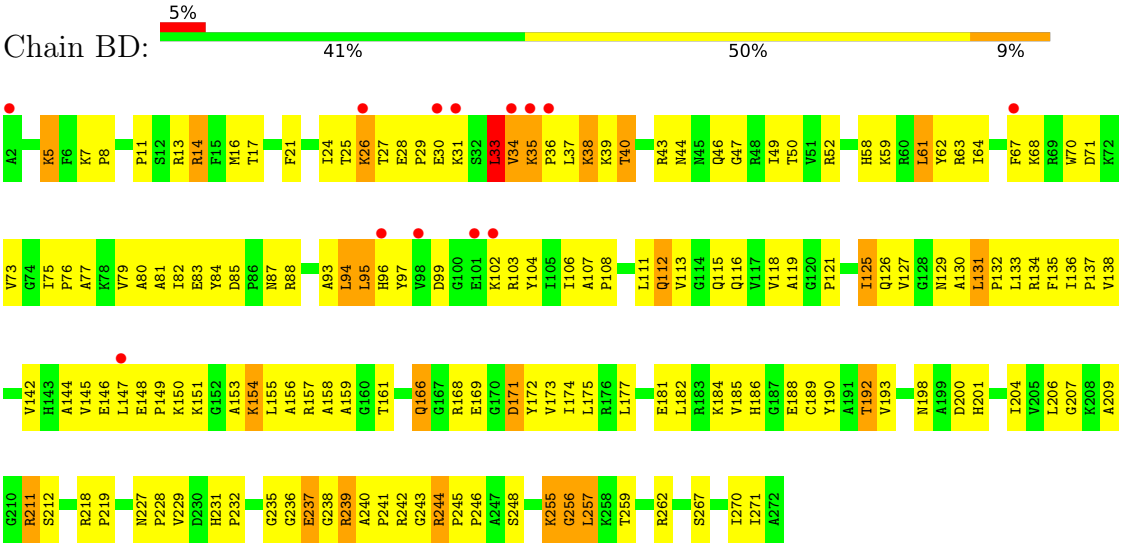
• Molecule 26: 5S ribosomal RNA

Chain DB:



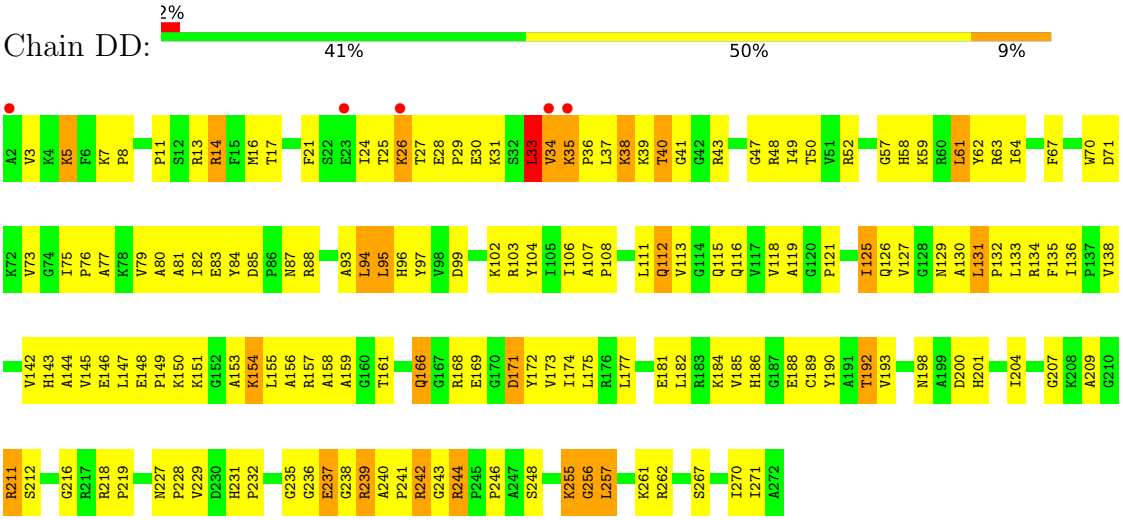
• Molecule 27: 50S ribosomal protein L2

Chain BD:



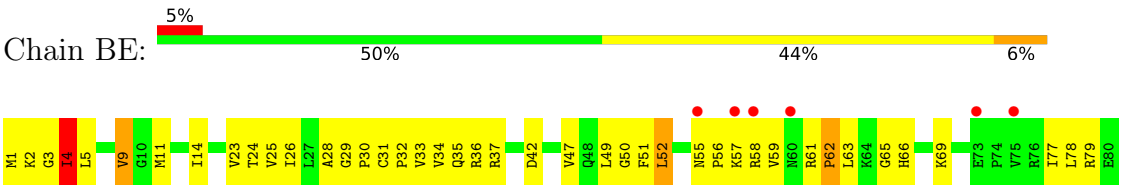
• Molecule 27: 50S ribosomal protein L2

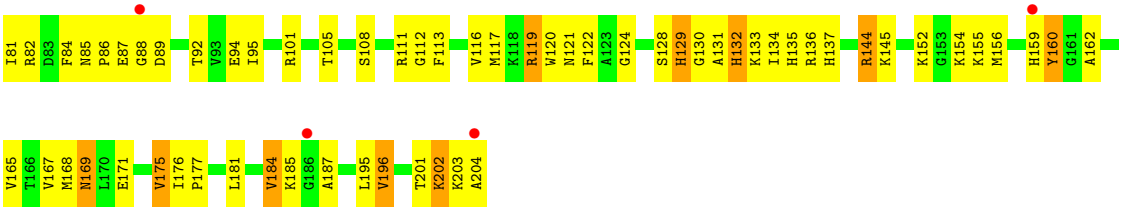
Chain DD:

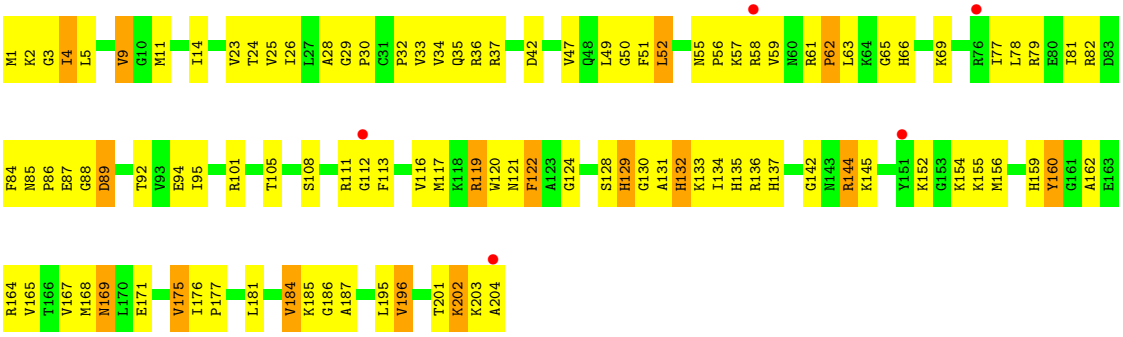


• Molecule 28: 50S ribosomal protein L3

Chain BE:





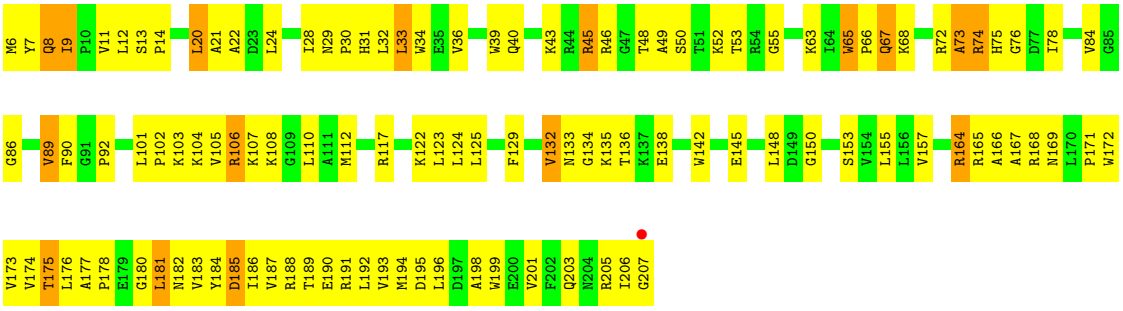


• Molecule 28: 50S ribosomal protein L3

Chain DE:

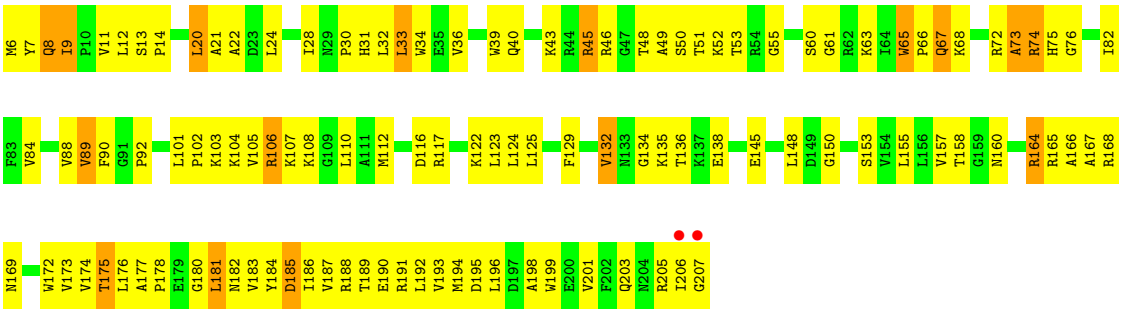
• Molecule 29: 50S ribosomal protein L4

Chain BF:



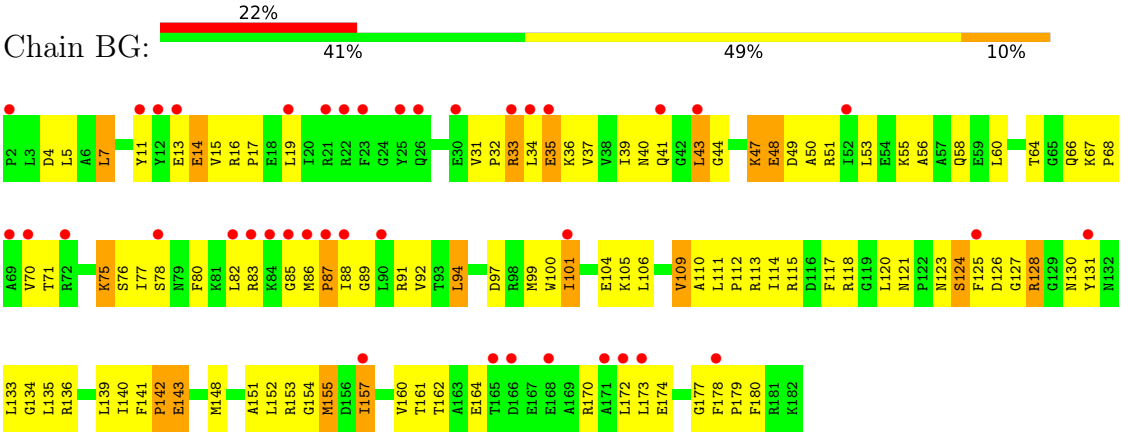
• Molecule 29: 50S ribosomal protein L4

Chain DF:



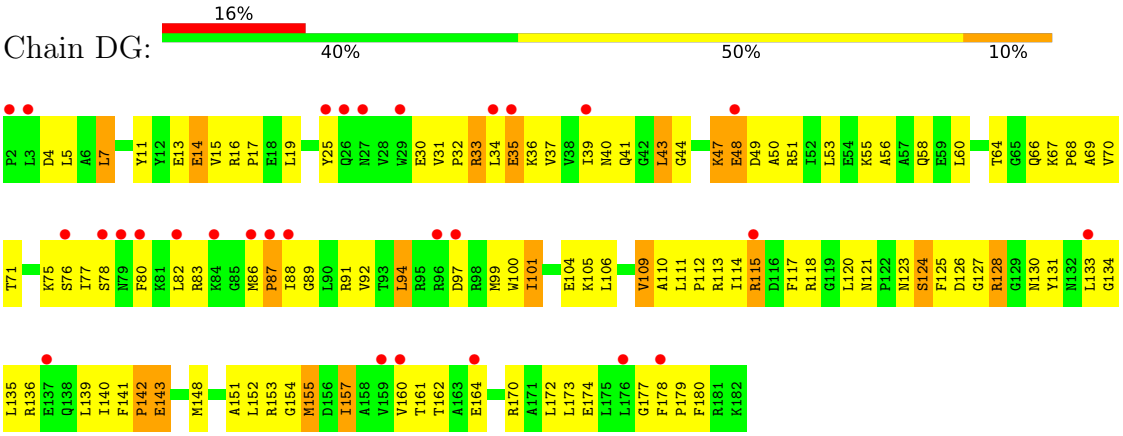
• Molecule 30: 50S ribosomal protein L5

Chain BG:



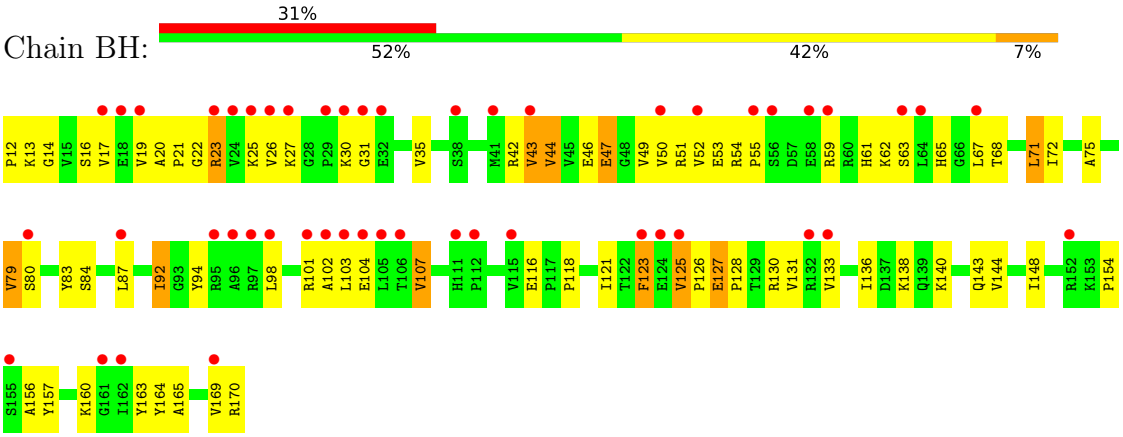
• Molecule 30: 50S ribosomal protein L5

Chain DG:



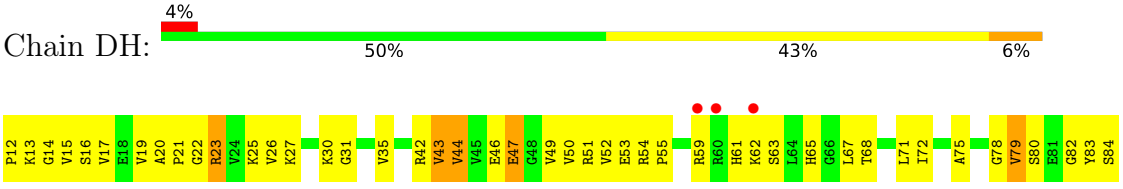
• Molecule 31: 50S ribosomal protein L6

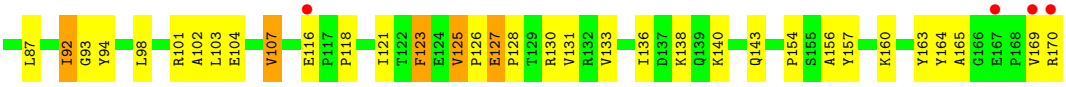
Chain BH:



• Molecule 31: 50S ribosomal protein L6

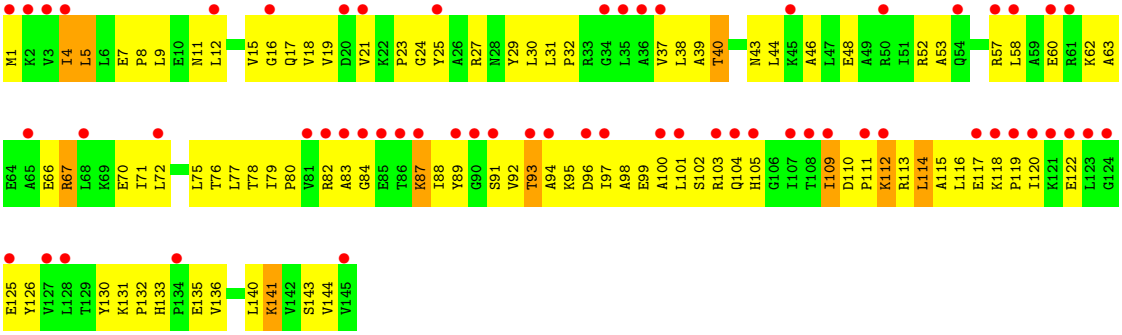
Chain DH:





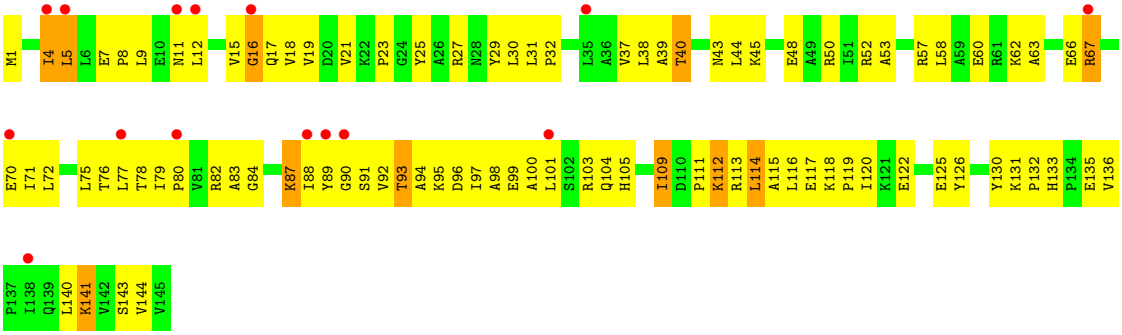
• Molecule 32: 50S ribosomal protein L9

Chain BI:



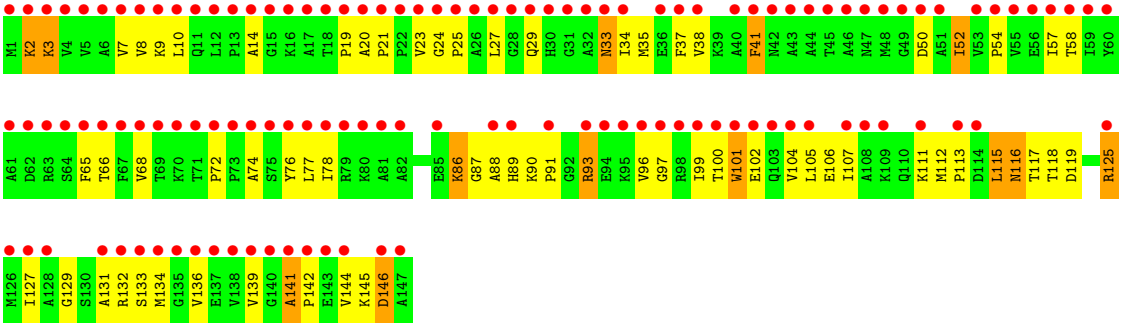
• Molecule 32: 50S ribosomal protein L9

Chain DI:



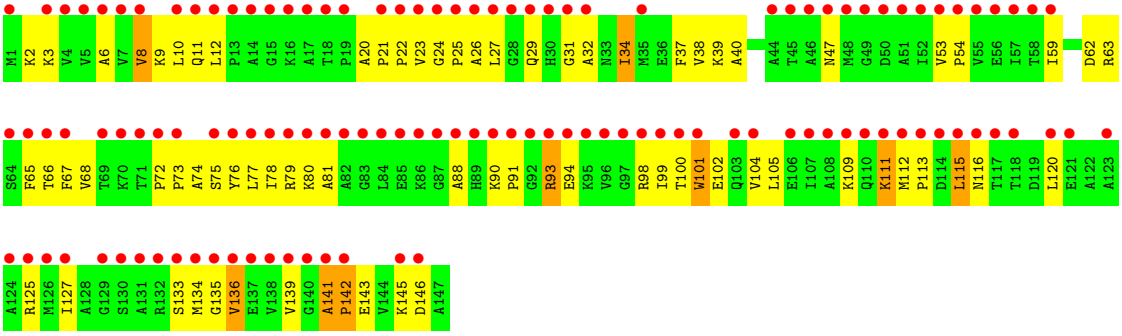
• Molecule 33: 50S ribosomal protein L11

Chain BK:



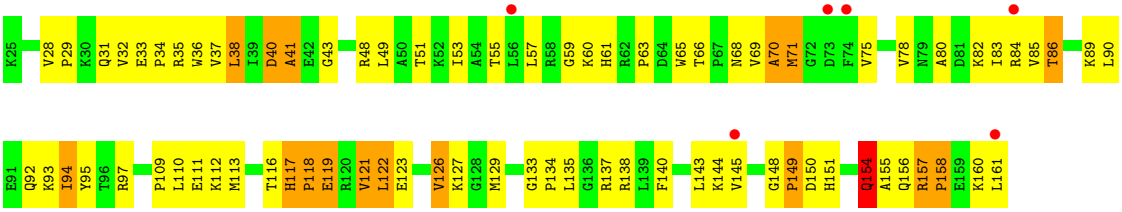
• Molecule 33: 50S ribosomal protein L11

Chain DK:



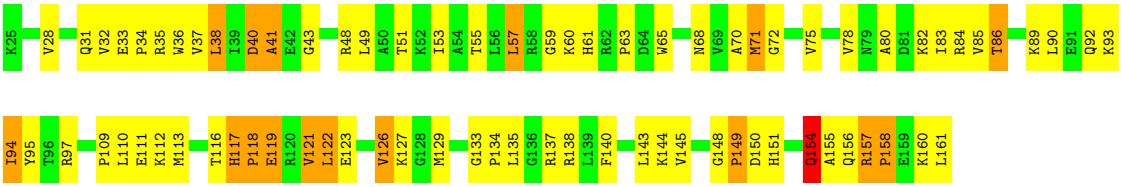
• Molecule 34: 50S ribosomal protein L13

Chain BN:



• Molecule 34: 50S ribosomal protein L13

Chain DN:

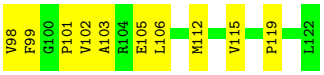


• Molecule 35: 50S ribosomal protein L14

Chain BO:

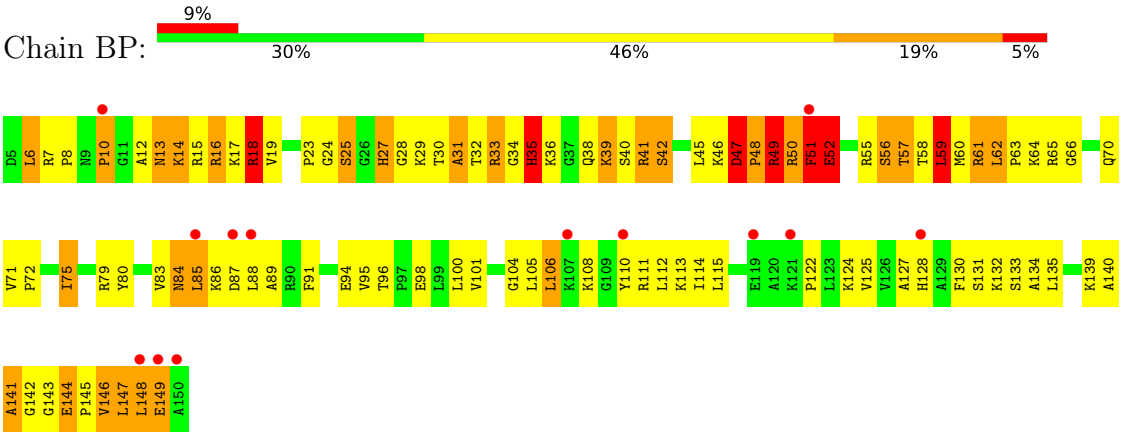
• Molecule 35: 50S ribosomal protein L14

Chain DO:



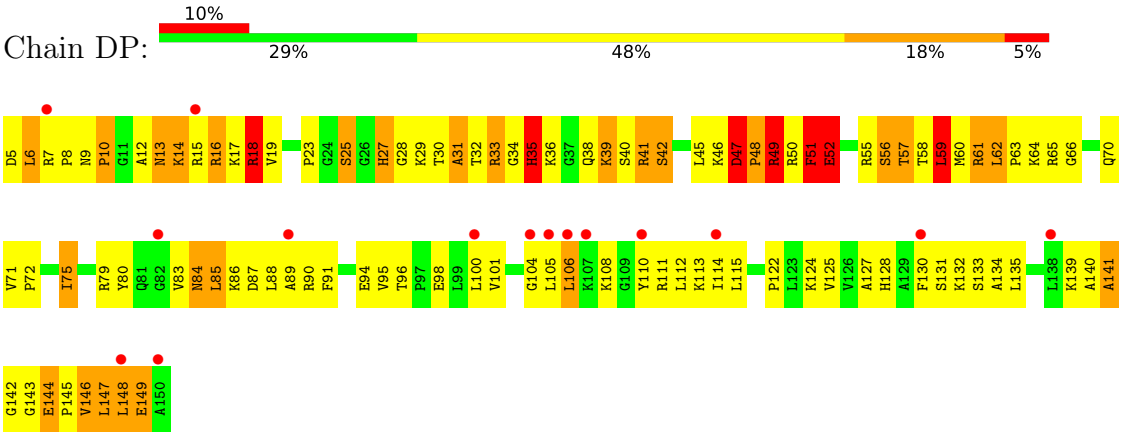
• Molecule 36: 50S ribosomal protein L15

Chain BP:



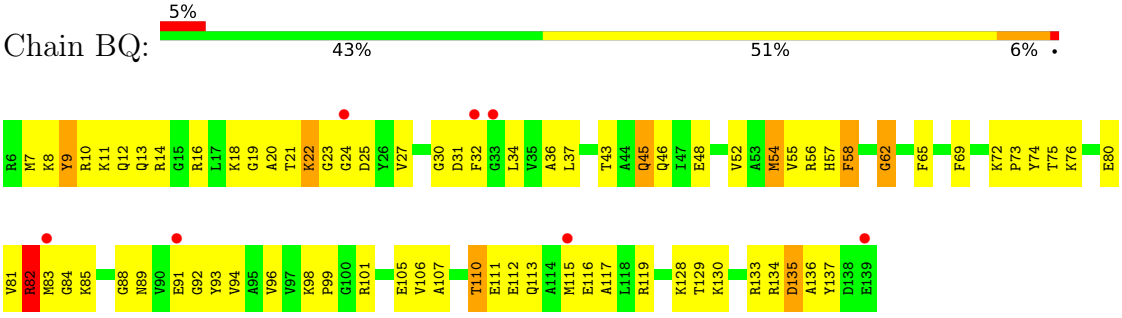
• Molecule 36: 50S ribosomal protein L15

Chain DP:



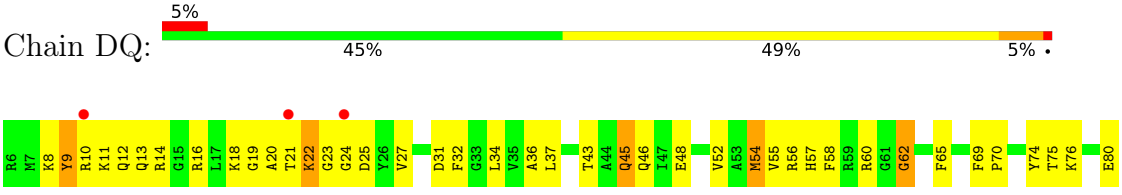
• Molecule 37: 50S ribosomal protein L16

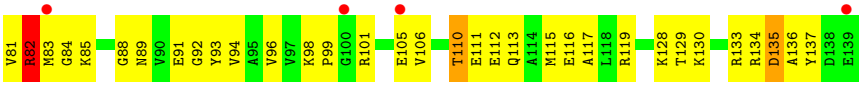
Chain BQ:



• Molecule 37: 50S ribosomal protein L16

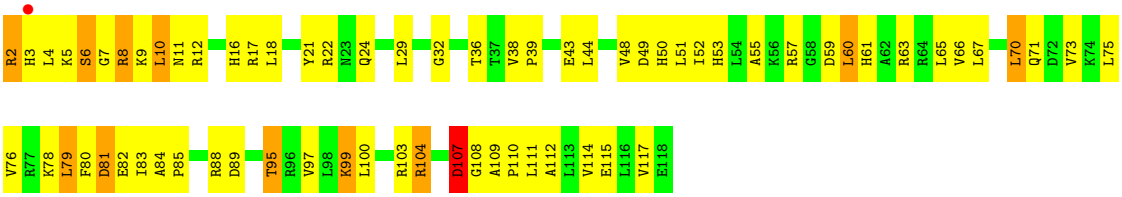
Chain DQ:





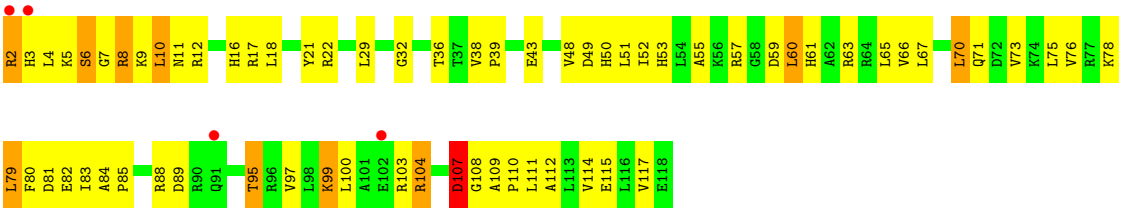
• Molecule 38: 50S ribosomal protein L17

Chain BR:



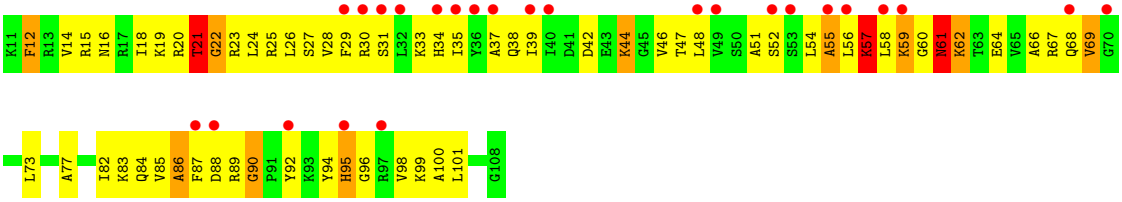
• Molecule 38: 50S ribosomal protein L17

Chain DR:



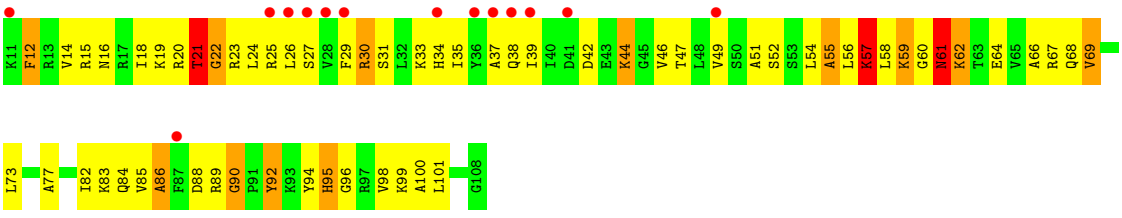
• Molecule 39: 50S ribosomal protein L18

Chain BS:



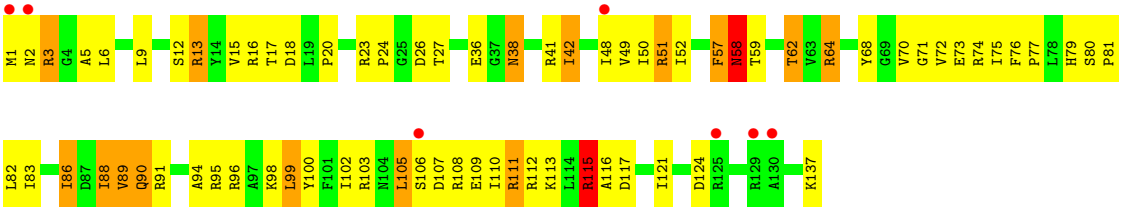
• Molecule 39: 50S ribosomal protein L18

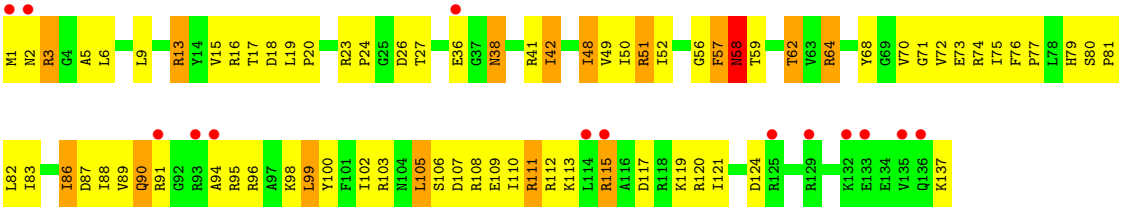
Chain DS:



• Molecule 40: 50S ribosomal protein L19

Chain BT:



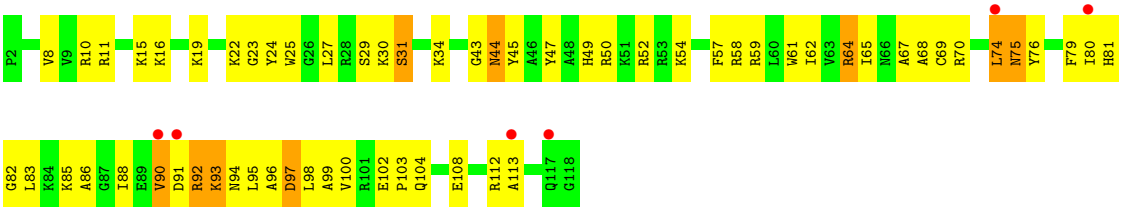


• Molecule 40: 50S ribosomal protein L19

Chain DT:

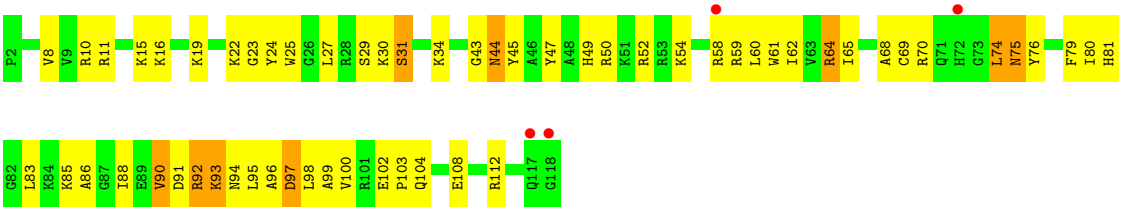
• Molecule 41: 50S ribosomal protein L20

Chain BU:



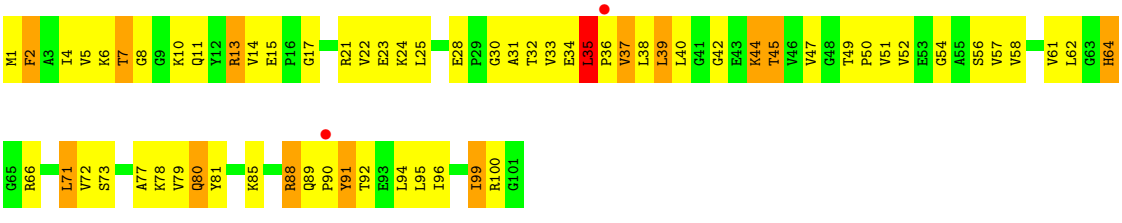
• Molecule 41: 50S ribosomal protein L20

Chain DU:



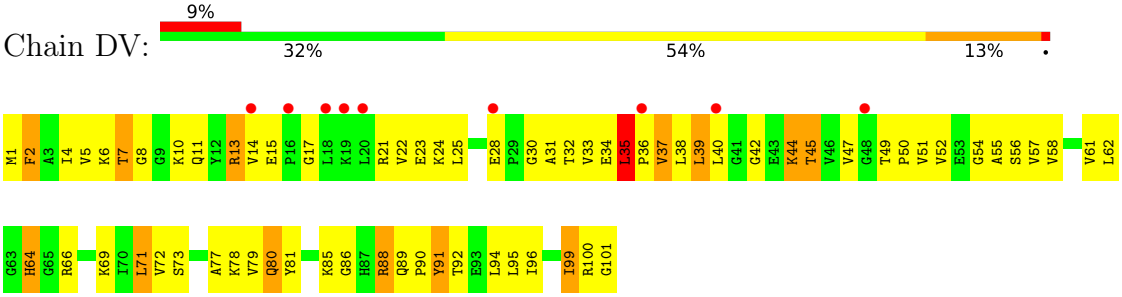
• Molecule 42: 50S ribosomal protein L21

Chain BV:



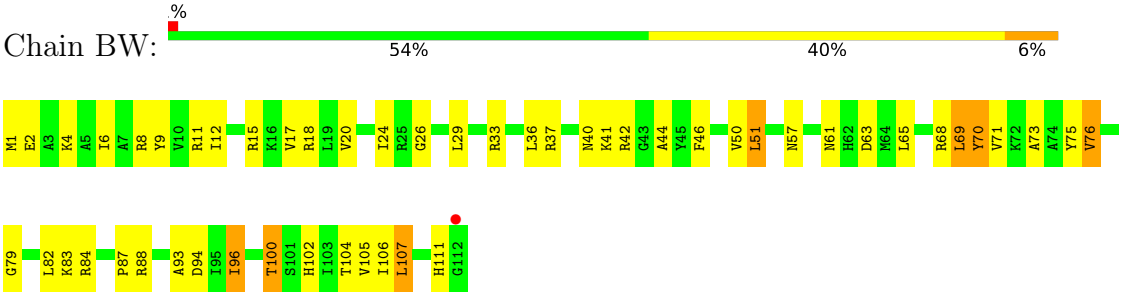
• Molecule 42: 50S ribosomal protein L21

Chain DV:



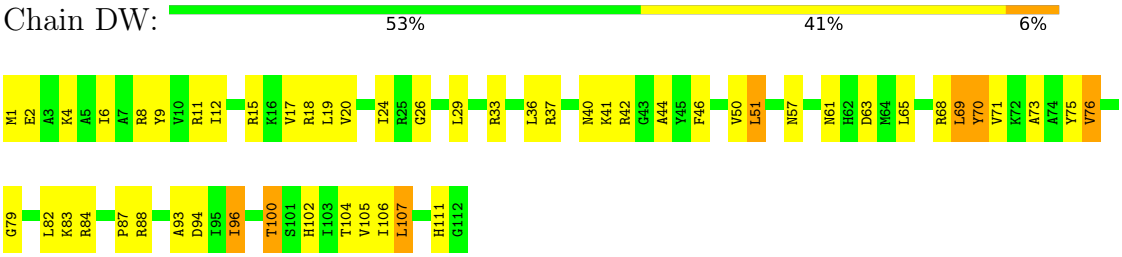
• Molecule 43: 50S ribosomal protein L22

Chain BW:



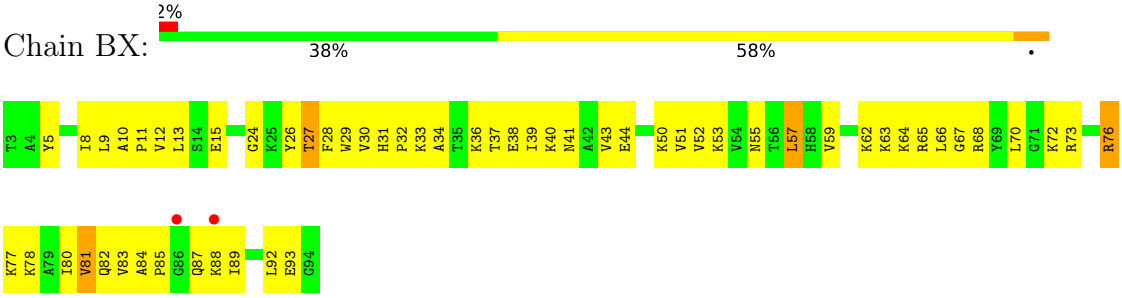
• Molecule 43: 50S ribosomal protein L22

Chain DW:



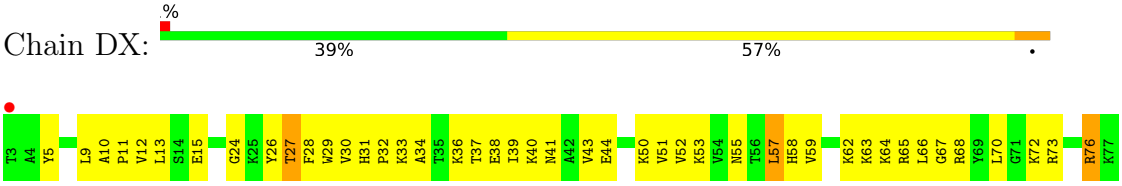
• Molecule 44: 50S ribosomal protein L23

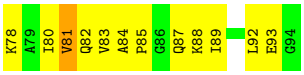
Chain BX:



• Molecule 44: 50S ribosomal protein L23

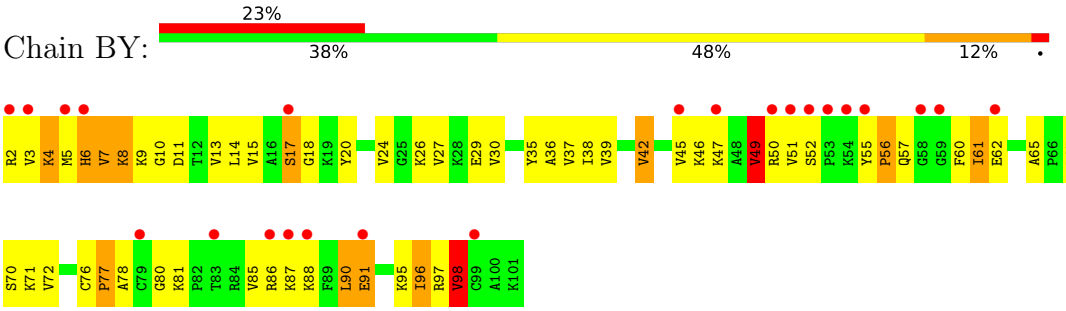
Chain DX:





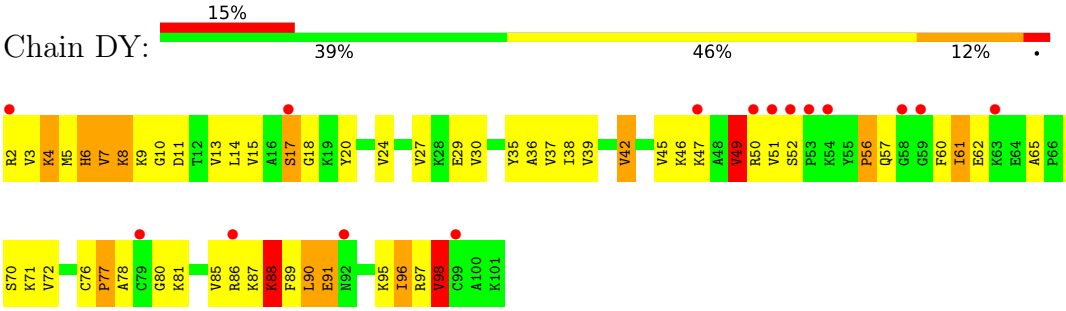
• Molecule 45: 50S ribosomal protein L24

Chain BY:



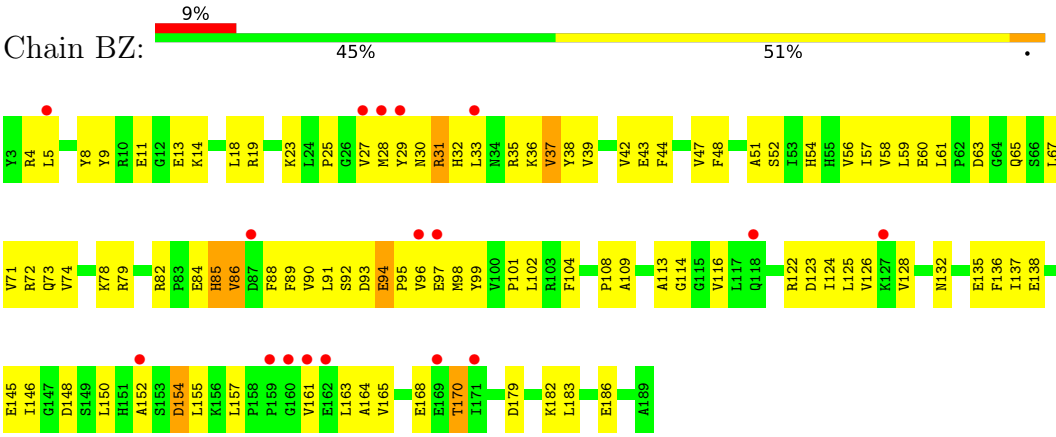
• Molecule 45: 50S ribosomal protein L24

Chain DY:



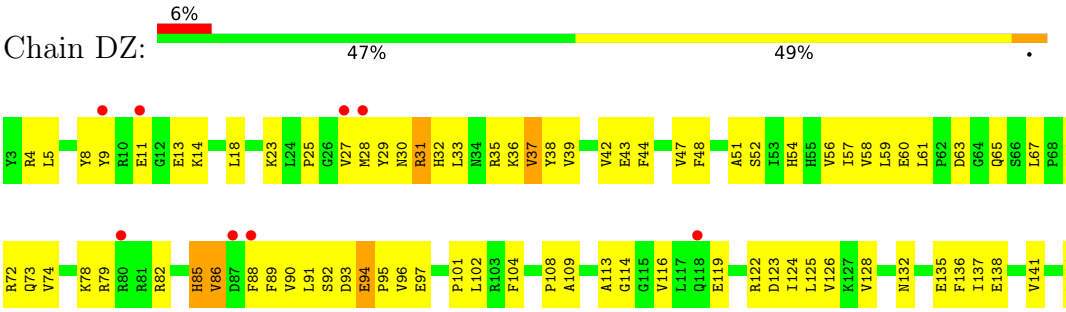
• Molecule 46: 50S ribosomal protein L25

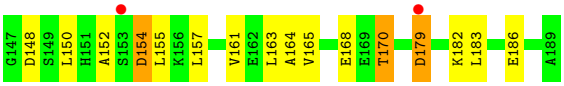
Chain BZ:



• Molecule 46: 50S ribosomal protein L25

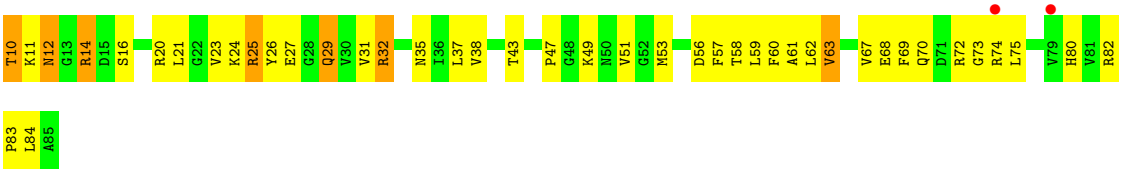
Chain DZ:





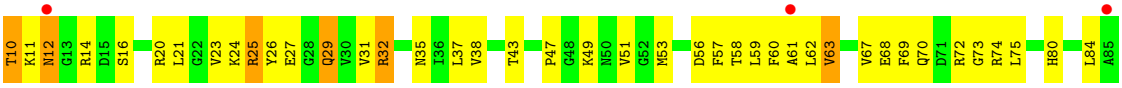
• Molecule 47: 50S ribosomal protein L27

Chain B0:



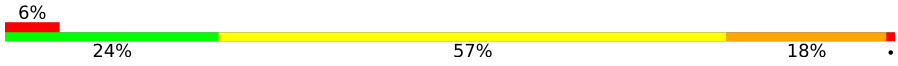
• Molecule 47: 50S ribosomal protein L27

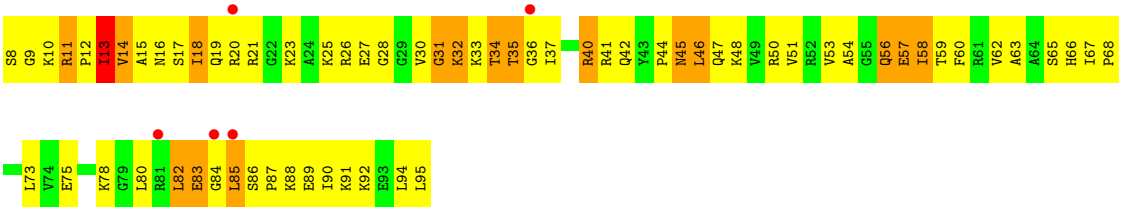
Chain D0:



• Molecule 48: 50S ribosomal protein L28

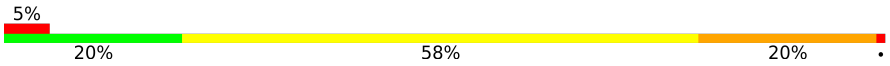
Chain B1:

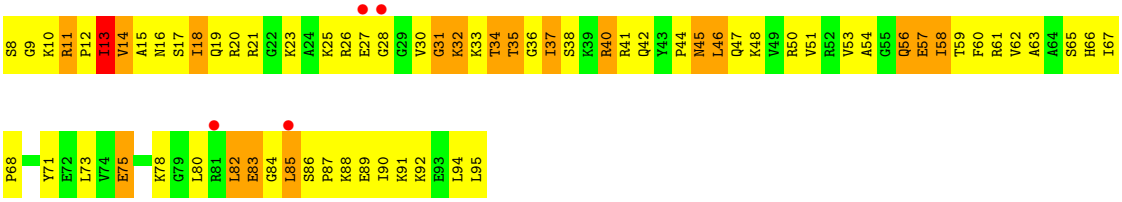




• Molecule 48: 50S ribosomal protein L28

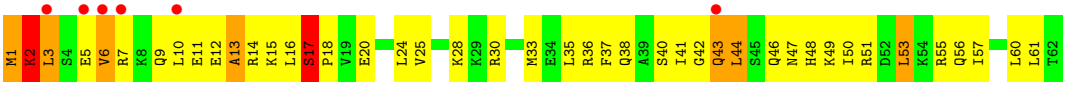
Chain D1:





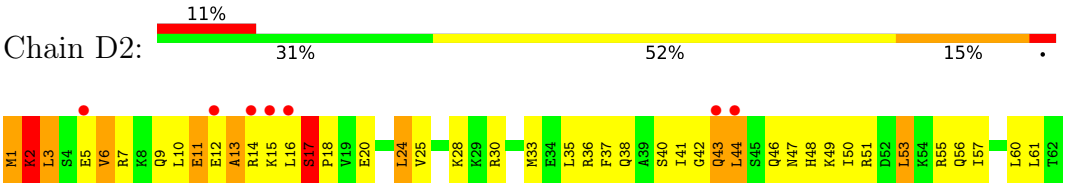
• Molecule 49: 50S ribosomal protein L29

Chain B2:



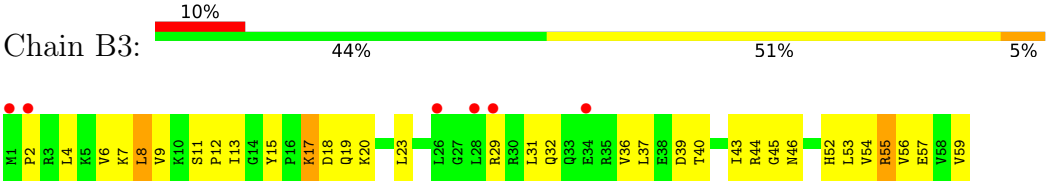
• Molecule 49: 50S ribosomal protein L29

Chain D2:



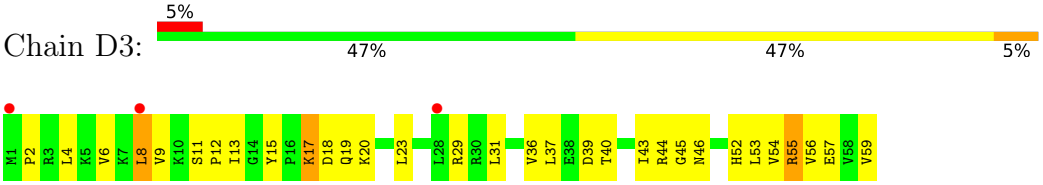
• Molecule 50: 50S ribosomal protein L30

Chain B3:



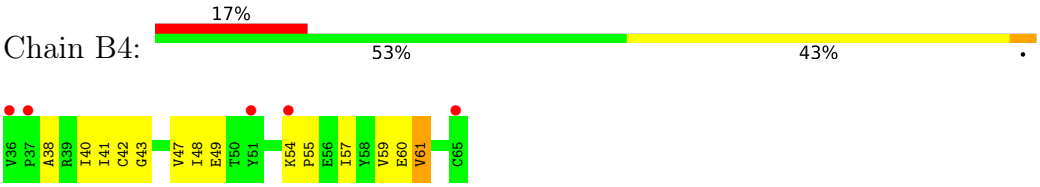
• Molecule 50: 50S ribosomal protein L30

Chain D3:



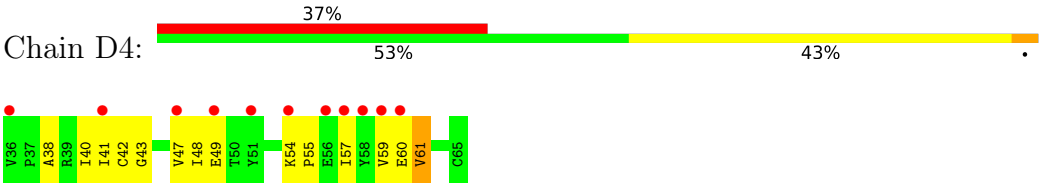
• Molecule 51: 50S ribosomal protein L31

Chain B4:



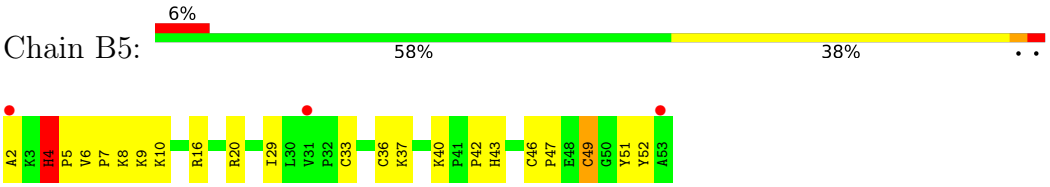
• Molecule 51: 50S ribosomal protein L31

Chain D4:



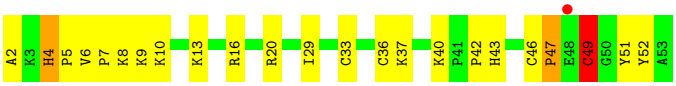
• Molecule 52: 50S ribosomal protein L32

Chain B5:



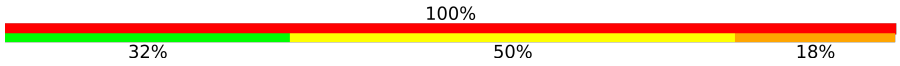
• Molecule 52: 50S ribosomal protein L32

Chain D5:



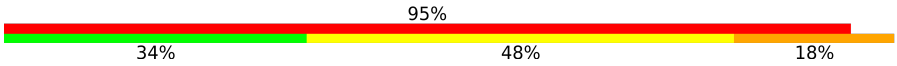
• Molecule 53: 50S ribosomal protein L33

Chain B6:



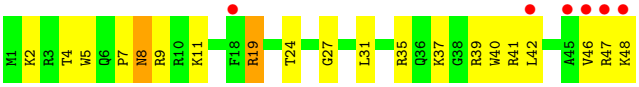
• Molecule 53: 50S ribosomal protein L33

Chain D6:



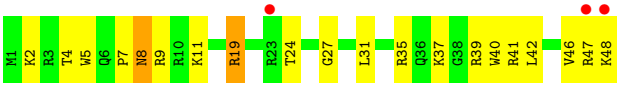
• Molecule 54: 50S ribosomal protein L34

Chain B7:



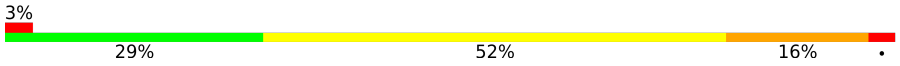
• Molecule 54: 50S ribosomal protein L34

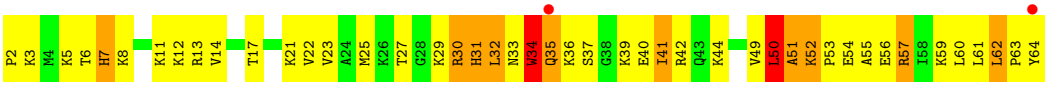
Chain D7:



• Molecule 55: 50S ribosomal protein L35

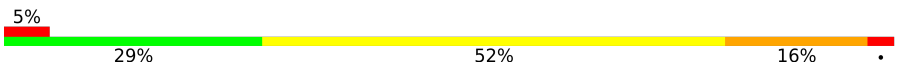
Chain B8:

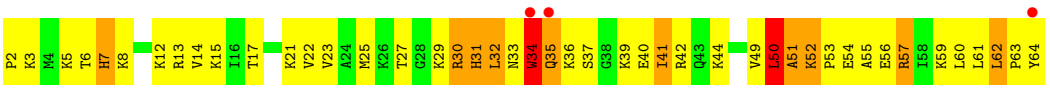




• Molecule 55: 50S ribosomal protein L35

Chain D8:





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, α, β, γ	212.07Å 454.40Å 618.45Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	49.67 – 3.40 49.78 – 3.35	Depositor EDS
% Data completeness (in resolution range)	99.7 (49.67-3.40) 99.7 (49.78-3.35)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.72 (at 3.33Å)	Xtriage
Refinement program	PHENIX (phenix.refine: 1.6.4_486), CNS	Depositor
R, R_{free}	0.234 , 0.268 0.241 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	83.6	Xtriage
Anisotropy	0.218	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.27 , 97.0	EDS
L-test for twinning[2]	$< \|L\| > = 0.44$, $< L^2 > = 0.26$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	294074	wwPDB-VP
Average B, all atoms (Å^2)	109.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.50% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

Bond lengths and bond angles in the following residue types are not validated in this section: 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	0.27	2/36194 (0.0%)	0.55	0/56493
1	CA	0.27	2/36194 (0.0%)	0.54	0/56493
2	AV	0.26	0/241	0.53	0/374
2	CV	0.23	0/241	0.54	0/374
3	AW	0.25	0/1832	0.52	0/2855
3	CW	0.26	0/1832	0.53	0/2855
4	AY	0.21	0/2925	0.39	0/3953
4	CY	0.21	0/2925	0.39	0/3953
5	AB	0.22	0/1936	0.40	0/2609
5	CB	0.22	0/1936	0.39	0/2609
6	AC	0.22	0/1637	0.39	0/2205
6	CC	0.22	0/1637	0.39	0/2205
7	AD	0.25	0/1733	0.44	0/2318
7	CD	0.24	0/1733	0.41	0/2318
8	AE	0.24	0/1172	0.44	0/1576
8	CE	0.24	0/1172	0.43	0/1576
9	AF	0.23	0/856	0.42	0/1154
9	CF	0.24	0/856	0.43	0/1154
10	AG	0.22	0/1276	0.37	0/1709
10	CG	0.22	0/1276	0.37	0/1709
11	AH	0.23	0/1136	0.44	0/1527
11	CH	0.22	0/1136	0.43	0/1527
12	AI	0.23	0/1029	0.40	0/1378
12	CI	0.22	0/1029	0.40	0/1378
13	AJ	0.21	0/808	0.41	0/1085
13	CJ	0.21	0/808	0.41	0/1085
14	AK	0.24	0/857	0.43	0/1157
14	CK	0.24	0/857	0.43	0/1157
15	AL	0.27	0/973	0.47	0/1301
15	CL	0.26	0/973	0.47	0/1301
16	AM	0.20	0/944	0.40	0/1265
16	CM	0.20	0/944	0.40	0/1265

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	AN	0.24	0/501	0.41	0/664
17	CN	0.25	0/501	0.39	0/664
18	AO	0.24	0/745	0.39	0/992
18	CO	0.24	0/745	0.39	0/992
19	AP	0.24	0/717	0.43	0/963
19	CP	0.22	0/717	0.43	0/963
20	AQ	0.25	0/837	0.41	0/1117
20	CQ	0.23	0/837	0.41	0/1117
21	AR	0.24	0/579	0.43	0/768
21	CR	0.24	0/579	0.43	0/768
22	AS	0.21	0/643	0.40	0/865
22	CS	0.22	0/643	0.40	0/865
23	AT	0.23	0/764	0.39	0/1006
23	CT	0.22	0/764	0.39	0/1006
24	AU	0.21	0/213	0.40	0/277
24	CU	0.21	0/213	0.41	0/277
25	BA	0.38	6/67268 (0.0%)	0.67	12/105011 (0.0%)
25	DA	0.42	6/67268 (0.0%)	0.70	21/105011 (0.0%)
26	BB	0.25	0/2853	0.55	0/4451
26	DB	0.26	0/2853	0.56	0/4451
27	BD	0.33	0/2155	0.53	0/2905
27	DD	0.35	0/2155	0.53	1/2905 (0.0%)
28	BE	0.28	0/1597	0.49	0/2153
28	DE	0.29	0/1597	0.49	0/2153
29	BF	0.29	0/1622	0.48	0/2194
29	DF	0.31	0/1622	0.48	0/2194
30	BG	0.23	0/1500	0.42	0/2017
30	DG	0.23	0/1500	0.43	0/2017
31	BH	0.22	0/1246	0.44	0/1682
31	DH	0.24	0/1246	0.45	0/1682
32	BI	0.22	0/1148	0.42	0/1552
32	DI	0.23	0/1148	0.43	0/1552
33	BK	0.21	0/1108	0.40	0/1500
33	DK	0.20	0/1108	0.39	0/1500
34	BN	0.27	0/1124	0.46	0/1515
34	DN	0.29	0/1124	0.47	0/1515
35	BO	0.28	0/942	0.47	0/1268
35	DO	0.30	0/942	0.48	0/1268
36	BP	0.34	0/1131	0.62	1/1504 (0.1%)
36	DP	0.36	0/1131	0.63	1/1504 (0.1%)
37	BQ	0.30	0/1085	0.52	0/1449
37	DQ	0.31	0/1085	0.52	0/1449
38	BR	0.28	0/974	0.48	0/1302

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	DR	0.29	0/974	0.49	0/1302
39	BS	0.24	0/779	0.44	0/1036
39	DS	0.25	0/779	0.44	0/1036
40	BT	0.27	0/1158	0.47	0/1544
40	DT	0.28	0/1158	0.48	0/1544
41	BU	0.31	0/982	0.47	0/1306
41	DU	0.32	0/982	0.46	0/1306
42	BV	0.28	0/790	0.49	0/1057
42	DV	0.29	0/790	0.49	0/1057
43	BW	0.30	0/902	0.47	0/1209
43	DW	0.29	0/902	0.47	0/1209
44	BX	0.30	0/740	0.46	0/993
44	DX	0.33	0/740	0.48	0/993
45	BY	0.28	0/789	0.49	0/1051
45	DY	0.30	0/789	0.49	0/1051
46	BZ	0.22	0/1515	0.42	0/2056
46	DZ	0.23	0/1515	0.42	0/2056
47	B0	0.27	0/613	0.53	0/816
47	D0	0.29	0/613	0.52	0/816
48	B1	0.34	0/702	0.59	1/932 (0.1%)
48	D1	0.36	0/702	0.61	1/932 (0.1%)
49	B2	0.27	0/523	0.50	0/690
49	D2	0.32	0/523	0.53	0/690
50	B3	0.25	0/473	0.43	0/634
50	D3	0.27	0/473	0.43	0/634
51	B4	0.24	0/229	0.40	0/309
51	D4	0.23	0/229	0.42	0/309
52	B5	0.27	0/419	0.51	0/567
52	D5	0.29	0/419	0.50	0/567
53	B6	0.21	0/388	0.41	0/518
53	D6	0.21	0/388	0.42	0/518
54	B7	0.34	0/427	0.54	0/561
54	D7	0.38	0/427	0.56	0/561
55	B8	0.32	0/516	0.49	0/679
55	D8	0.35	0/516	0.50	0/679
All	All	0.33	16/316492 (0.0%)	0.59	38/472144 (0.0%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
36	BP	0	1
36	DP	0	1
38	BR	0	1
38	DR	0	1
48	B1	0	1
48	D1	0	1
52	B5	0	1
All	All	0	7

The worst 5 of 16 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	BA	1913	A	P-OP1	-9.19	1.33	1.49
1	AA	1493	A	P-OP2	-9.00	1.33	1.49
25	BA	1912	A	P-OP2	-9.00	1.33	1.49
25	DA	1912	A	P-OP1	-8.94	1.33	1.49
1	CA	1493	A	P-OP1	-8.80	1.33	1.49

The worst 5 of 38 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	BA	2061	G	N1-C6-O6	8.50	125.00	119.90
25	DA	2447	G	N1-C6-O6	6.34	123.71	119.90
25	DA	2061	G	N1-C6-O6	6.02	123.51	119.90
25	DA	1899	G	C2-N3-C4	-6.02	108.89	111.90
25	DA	2447	G	C6-C5-N7	-5.97	126.82	130.40

There are no chirality outliers.

5 of 7 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
48	B1	26	ARG	Peptide
52	B5	4	HIS	Peptide
36	BP	51	PHE	Peptide
38	BR	10	LEU	Peptide
36	DP	51	PHE	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	32332	0	16318	783	0
1	CA	32332	0	16318	798	0
2	AV	214	0	110	7	0
2	CV	214	0	110	8	0
3	AW	1640	0	837	26	0
3	CW	1640	0	837	24	0
4	AY	2874	0	2866	173	0
4	CY	2874	0	2866	164	0
5	AB	1901	0	1951	118	0
5	CB	1901	0	1951	119	0
6	AC	1613	0	1677	100	0
6	CC	1613	0	1677	101	0
7	AD	1703	0	1764	102	0
7	CD	1703	0	1765	121	0
8	AE	1156	0	1213	80	0
8	CE	1156	0	1213	80	0
9	AF	843	0	857	36	0
9	CF	843	0	857	36	0
10	AG	1257	0	1296	46	0
10	CG	1257	0	1296	42	0
11	AH	1116	0	1177	72	0
11	CH	1116	0	1177	77	0
12	AI	1011	0	1043	69	0
12	CI	1011	0	1043	70	0
13	AJ	795	0	840	74	0
13	CJ	795	0	840	72	0
14	AK	843	0	859	39	0
14	CK	843	0	859	40	0
15	AL	957	0	1046	73	0
15	CL	957	0	1046	71	0
16	AM	934	0	992	50	0
16	CM	934	0	992	55	0
17	AN	492	0	530	47	0
17	CN	492	0	530	39	0
18	AO	734	0	771	34	0
18	CO	734	0	771	34	0
19	AP	701	0	720	51	0
19	CP	701	0	720	49	0
20	AQ	824	0	893	38	0
20	CQ	824	0	893	40	0
21	AR	574	0	644	37	0
21	CR	574	0	644	39	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
22	AS	630	0	652	55	0
22	CS	630	0	652	56	0
23	AT	762	0	859	38	0
23	CT	762	0	859	40	0
24	AU	209	0	221	16	0
24	CU	209	0	221	17	0
25	BA	60059	0	30274	1273	0
25	DA	60059	0	30274	1280	0
26	BB	2551	0	1295	81	0
26	DB	2551	0	1295	83	0
27	BD	2105	0	2182	176	0
27	DD	2105	0	2182	179	0
28	BE	1564	0	1629	122	0
28	DE	1564	0	1629	123	0
29	BF	1587	0	1632	100	0
29	DF	1587	0	1632	108	0
30	BG	1475	0	1537	110	0
30	DG	1475	0	1537	114	0
31	BH	1223	0	1282	76	0
31	DH	1223	0	1282	77	0
32	BI	1133	0	1220	100	0
32	DI	1133	0	1220	110	0
33	BK	1088	0	1138	58	0
33	DK	1088	0	1138	61	0
34	BN	1097	0	1168	80	0
34	DN	1097	0	1168	74	0
35	BO	932	0	994	45	0
35	DO	932	0	994	46	0
36	BP	1114	0	1187	184	0
36	DP	1114	0	1187	194	0
37	BQ	1065	0	1114	82	0
37	DQ	1065	0	1114	83	0
38	BR	960	0	1021	84	0
38	DR	960	0	1021	77	0
39	BS	771	0	832	60	0
39	DS	771	0	832	60	0
40	BT	1144	0	1211	76	0
40	DT	1144	0	1211	74	0
41	BU	964	0	1022	83	0
41	DU	964	0	1022	78	0
42	BV	779	0	852	83	0
42	DV	779	0	852	79	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
43	BW	891	0	951	58	0
43	DW	891	0	951	61	0
44	BX	726	0	778	64	0
44	DX	726	0	778	65	0
45	BY	776	0	870	80	0
45	DY	776	0	870	81	0
46	BZ	1483	0	1507	89	0
46	DZ	1483	0	1507	89	0
47	B0	605	0	628	36	0
47	D0	605	0	628	32	0
48	B1	695	0	764	67	0
48	D1	695	0	764	77	0
49	B2	521	0	575	52	0
49	D2	521	0	575	56	0
50	B3	468	0	523	27	0
50	D3	468	0	523	24	0
51	B4	226	0	227	13	0
51	D4	226	0	225	15	0
52	B5	405	0	420	27	0
52	D5	405	0	420	31	0
53	B6	381	0	391	28	0
53	D6	381	0	391	26	0
54	B7	419	0	467	22	0
54	D7	419	0	467	22	0
55	B8	508	0	576	58	0
55	D8	508	0	576	60	0
56	AA	393	0	0	0	0
56	AC	1	0	0	0	0
56	AG	1	0	0	0	0
56	AO	1	0	0	0	0
56	AQ	1	0	0	0	0
56	AT	3	0	0	0	0
56	AV	1	0	0	0	0
56	AW	18	0	0	0	0
56	AY	3	0	0	0	0
56	B0	2	0	0	0	0
56	B1	1	0	0	0	0
56	B3	1	0	0	0	0
56	B5	1	0	0	0	0
56	B8	2	0	0	0	0
56	BA	824	0	0	0	0
56	BB	23	0	0	0	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
56	BD	1	0	0	0	0
56	BE	1	0	0	0	0
56	BF	1	0	0	0	0
56	BP	1	0	0	0	0
56	BT	1	0	0	0	0
56	BX	2	0	0	0	0
56	BY	1	0	0	0	0
56	CA	326	0	0	0	0
56	CD	1	0	0	0	0
56	CM	1	0	0	0	0
56	CR	1	0	0	0	0
56	CV	2	0	0	0	0
56	CW	16	0	0	0	0
56	CY	2	0	0	0	0
56	D0	1	0	0	0	0
56	D1	1	0	0	0	0
56	D5	3	0	0	0	0
56	D7	2	0	0	0	0
56	DA	732	0	0	0	0
56	DB	20	0	0	0	0
56	DD	1	0	0	0	0
56	DE	1	0	0	0	0
56	DF	2	0	0	0	0
56	DH	1	0	0	0	0
56	DI	2	0	0	0	0
56	DN	1	0	0	0	0
56	DP	2	0	0	0	0
56	DQ	4	0	0	0	0
56	DV	1	0	0	0	0
56	DW	2	0	0	0	0
56	DX	1	0	0	0	0
57	AD	1	0	0	0	0
57	AN	1	0	0	0	0
57	CD	1	0	0	0	0
57	CN	1	0	0	0	0
All	All	294074	0	200805	10187	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 21.

The worst 5 of 10187 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:CA:559:A:H4'	1:CA:560:U:H3'	1.26	1.16
25:BA:1899:G:N2	25:BA:1902:C:H41	1.43	1.15
45:DY:76:CYS:SG	45:DY:77:PRO:HD2	1.91	1.11
25:DA:1899:G:N2	25:DA:1902:C:H41	1.48	1.10
1:AA:559:A:H4'	1:AA:560:U:H3'	1.26	1.09

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	AY	360/362 (99%)	301 (84%)	41 (11%)	18 (5%)	2	14
4	CY	360/362 (99%)	301 (84%)	42 (12%)	17 (5%)	2	15
5	AB	232/234 (99%)	185 (80%)	37 (16%)	10 (4%)	2	17
5	CB	232/234 (99%)	184 (79%)	38 (16%)	10 (4%)	2	17
6	AC	204/206 (99%)	144 (71%)	40 (20%)	20 (10%)	0	4
6	CC	204/206 (99%)	145 (71%)	38 (19%)	21 (10%)	0	3
7	AD	206/208 (99%)	165 (80%)	32 (16%)	9 (4%)	2	16
7	CD	206/208 (99%)	166 (81%)	29 (14%)	11 (5%)	2	13
8	AE	149/151 (99%)	113 (76%)	32 (22%)	4 (3%)	5	26
8	CE	149/151 (99%)	116 (78%)	29 (20%)	4 (3%)	5	26
9	AF	99/101 (98%)	82 (83%)	16 (16%)	1 (1%)	15	46
9	CF	99/101 (98%)	82 (83%)	16 (16%)	1 (1%)	15	46
10	AG	153/155 (99%)	136 (89%)	13 (8%)	4 (3%)	5	26
10	CG	153/155 (99%)	136 (89%)	13 (8%)	4 (3%)	5	26
11	AH	136/138 (99%)	111 (82%)	23 (17%)	2 (2%)	10	36
11	CH	136/138 (99%)	113 (83%)	21 (15%)	2 (2%)	10	36

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
12	AI	125/127 (98%)	90 (72%)	27 (22%)	8 (6%)	1 9
12	CI	125/127 (98%)	90 (72%)	27 (22%)	8 (6%)	1 9
13	AJ	96/98 (98%)	72 (75%)	18 (19%)	6 (6%)	1 9
13	CJ	96/98 (98%)	72 (75%)	18 (19%)	6 (6%)	1 9
14	AK	112/114 (98%)	93 (83%)	14 (12%)	5 (4%)	2 16
14	CK	112/114 (98%)	93 (83%)	15 (13%)	4 (4%)	3 21
15	AL	120/122 (98%)	94 (78%)	21 (18%)	5 (4%)	3 18
15	CL	120/122 (98%)	93 (78%)	22 (18%)	5 (4%)	3 18
16	AM	115/117 (98%)	97 (84%)	15 (13%)	3 (3%)	5 26
16	CM	115/117 (98%)	97 (84%)	15 (13%)	3 (3%)	5 26
17	AN	58/60 (97%)	47 (81%)	9 (16%)	2 (3%)	3 21
17	CN	58/60 (97%)	43 (74%)	11 (19%)	4 (7%)	1 8
18	AO	86/88 (98%)	75 (87%)	8 (9%)	3 (4%)	3 21
18	CO	86/88 (98%)	75 (87%)	8 (9%)	3 (4%)	3 21
19	AP	81/83 (98%)	62 (76%)	16 (20%)	3 (4%)	3 20
19	CP	81/83 (98%)	61 (75%)	17 (21%)	3 (4%)	3 20
20	AQ	97/99 (98%)	82 (84%)	11 (11%)	4 (4%)	3 18
20	CQ	97/99 (98%)	83 (86%)	10 (10%)	4 (4%)	3 18
21	AR	68/70 (97%)	49 (72%)	17 (25%)	2 (3%)	4 24
21	CR	68/70 (97%)	50 (74%)	16 (24%)	2 (3%)	4 24
22	AS	76/78 (97%)	53 (70%)	15 (20%)	8 (10%)	0 3
22	CS	76/78 (97%)	53 (70%)	15 (20%)	8 (10%)	0 3
23	AT	97/99 (98%)	75 (77%)	14 (14%)	8 (8%)	1 5
23	CT	97/99 (98%)	75 (77%)	14 (14%)	8 (8%)	1 5
24	AU	22/24 (92%)	13 (59%)	7 (32%)	2 (9%)	1 4
24	CU	22/24 (92%)	13 (59%)	7 (32%)	2 (9%)	1 4
27	BD	269/271 (99%)	227 (84%)	29 (11%)	13 (5%)	2 15
27	DD	269/271 (99%)	227 (84%)	29 (11%)	13 (5%)	2 15
28	BE	202/204 (99%)	167 (83%)	26 (13%)	9 (4%)	2 16
28	DE	202/204 (99%)	165 (82%)	27 (13%)	10 (5%)	2 14
29	BF	200/202 (99%)	172 (86%)	21 (10%)	7 (4%)	3 21

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
29	DF	200/202 (99%)	171 (86%)	24 (12%)	5 (2%)	5 26
30	BG	179/181 (99%)	141 (79%)	28 (16%)	10 (6%)	2 12
30	DG	179/181 (99%)	141 (79%)	28 (16%)	10 (6%)	2 12
31	BH	157/159 (99%)	130 (83%)	19 (12%)	8 (5%)	2 14
31	DH	157/159 (99%)	131 (83%)	18 (12%)	8 (5%)	2 14
32	BI	143/145 (99%)	113 (79%)	25 (18%)	5 (4%)	3 21
32	DI	143/145 (99%)	115 (80%)	23 (16%)	5 (4%)	3 21
33	BK	145/147 (99%)	99 (68%)	41 (28%)	5 (3%)	3 21
33	DK	145/147 (99%)	103 (71%)	31 (21%)	11 (8%)	1 6
34	BN	135/137 (98%)	96 (71%)	29 (22%)	10 (7%)	1 7
34	DN	135/137 (98%)	96 (71%)	29 (22%)	10 (7%)	1 7
35	BO	120/122 (98%)	103 (86%)	14 (12%)	3 (2%)	5 26
35	DO	120/122 (98%)	103 (86%)	14 (12%)	3 (2%)	5 26
36	BP	144/146 (99%)	91 (63%)	32 (22%)	21 (15%)	0 1
36	DP	144/146 (99%)	93 (65%)	31 (22%)	20 (14%)	0 1
37	BQ	132/134 (98%)	104 (79%)	22 (17%)	6 (4%)	2 16
37	DQ	132/134 (98%)	105 (80%)	22 (17%)	5 (4%)	3 19
38	BR	115/117 (98%)	96 (84%)	17 (15%)	2 (2%)	9 34
38	DR	115/117 (98%)	97 (84%)	16 (14%)	2 (2%)	9 34
39	BS	96/98 (98%)	62 (65%)	20 (21%)	14 (15%)	0 1
39	DS	96/98 (98%)	60 (62%)	22 (23%)	14 (15%)	0 1
40	BT	135/137 (98%)	100 (74%)	24 (18%)	11 (8%)	1 5
40	DT	135/137 (98%)	101 (75%)	23 (17%)	11 (8%)	1 5
41	BU	115/117 (98%)	99 (86%)	13 (11%)	3 (3%)	5 26
41	DU	115/117 (98%)	101 (88%)	11 (10%)	3 (3%)	5 26
42	BV	99/101 (98%)	75 (76%)	18 (18%)	6 (6%)	1 10
42	DV	99/101 (98%)	74 (75%)	19 (19%)	6 (6%)	1 10
43	BW	110/112 (98%)	98 (89%)	12 (11%)	0	100 100
43	DW	110/112 (98%)	95 (86%)	15 (14%)	0	100 100
44	BX	90/92 (98%)	82 (91%)	7 (8%)	1 (1%)	14 44
44	DX	90/92 (98%)	81 (90%)	8 (9%)	1 (1%)	14 44

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
45	BY	98/100 (98%)	68 (69%)	14 (14%)	16 (16%)	0 0
45	DY	98/100 (98%)	68 (69%)	13 (13%)	17 (17%)	0 0
46	BZ	185/187 (99%)	158 (85%)	21 (11%)	6 (3%)	4 22
46	DZ	185/187 (99%)	158 (85%)	21 (11%)	6 (3%)	4 22
47	B0	74/76 (97%)	63 (85%)	7 (10%)	4 (5%)	2 13
47	D0	74/76 (97%)	63 (85%)	7 (10%)	4 (5%)	2 13
48	B1	86/88 (98%)	59 (69%)	14 (16%)	13 (15%)	0 0
48	D1	86/88 (98%)	59 (69%)	14 (16%)	13 (15%)	0 0
49	B2	60/62 (97%)	45 (75%)	7 (12%)	8 (13%)	0 1
49	D2	60/62 (97%)	45 (75%)	7 (12%)	8 (13%)	0 1
50	B3	57/59 (97%)	51 (90%)	5 (9%)	1 (2%)	8 32
50	D3	57/59 (97%)	51 (90%)	5 (9%)	1 (2%)	8 32
51	B4	28/30 (93%)	16 (57%)	10 (36%)	2 (7%)	1 7
51	D4	28/30 (93%)	16 (57%)	10 (36%)	2 (7%)	1 7
52	B5	50/52 (96%)	42 (84%)	5 (10%)	3 (6%)	1 10
52	D5	50/52 (96%)	42 (84%)	5 (10%)	3 (6%)	1 10
53	B6	42/44 (96%)	29 (69%)	8 (19%)	5 (12%)	0 3
53	D6	42/44 (96%)	29 (69%)	8 (19%)	5 (12%)	0 3
54	B7	46/48 (96%)	42 (91%)	4 (9%)	0	100 100
54	D7	46/48 (96%)	43 (94%)	3 (6%)	0	100 100
55	B8	61/63 (97%)	47 (77%)	7 (12%)	7 (12%)	0 3
55	D8	61/63 (97%)	47 (77%)	7 (12%)	7 (12%)	0 3
All	All	12130/12330 (98%)	9635 (79%)	1836 (15%)	659 (5%)	2 13

5 of 659 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
4	AY	55	PRO
4	AY	95	GLU
4	AY	175	ALA
4	AY	225	PRO
4	AY	315	VAL

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
4	AY	305/305 (100%)	278 (91%)	27 (9%)	9 33
4	CY	305/305 (100%)	277 (91%)	28 (9%)	9 31
5	AB	202/202 (100%)	189 (94%)	13 (6%)	17 47
5	CB	202/202 (100%)	188 (93%)	14 (7%)	15 45
6	AC	160/160 (100%)	147 (92%)	13 (8%)	11 38
6	CC	160/160 (100%)	147 (92%)	13 (8%)	11 38
7	AD	180/180 (100%)	149 (83%)	31 (17%)	2 8
7	CD	180/180 (100%)	162 (90%)	18 (10%)	7 27
8	AE	116/116 (100%)	108 (93%)	8 (7%)	15 45
8	CE	116/116 (100%)	108 (93%)	8 (7%)	15 45
9	AF	90/90 (100%)	85 (94%)	5 (6%)	21 51
9	CF	90/90 (100%)	85 (94%)	5 (6%)	21 51
10	AG	126/126 (100%)	123 (98%)	3 (2%)	49 74
10	CG	126/126 (100%)	123 (98%)	3 (2%)	49 74
11	AH	119/119 (100%)	111 (93%)	8 (7%)	16 46
11	CH	119/119 (100%)	110 (92%)	9 (8%)	13 41
12	AI	98/98 (100%)	88 (90%)	10 (10%)	7 26
12	CI	98/98 (100%)	88 (90%)	10 (10%)	7 26
13	AJ	88/88 (100%)	78 (89%)	10 (11%)	5 21
13	CJ	88/88 (100%)	78 (89%)	10 (11%)	5 21
14	AK	86/86 (100%)	82 (95%)	4 (5%)	26 57
14	CK	86/86 (100%)	82 (95%)	4 (5%)	26 57
15	AL	103/103 (100%)	95 (92%)	8 (8%)	12 39
15	CL	103/103 (100%)	95 (92%)	8 (8%)	12 39
16	AM	94/94 (100%)	86 (92%)	8 (8%)	10 35
16	CM	94/94 (100%)	86 (92%)	8 (8%)	10 35

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
17	AN	49/49 (100%)	44 (90%)	5 (10%)	7 26
17	CN	49/49 (100%)	47 (96%)	2 (4%)	30 59
18	AO	79/79 (100%)	71 (90%)	8 (10%)	7 27
18	CO	79/79 (100%)	71 (90%)	8 (10%)	7 27
19	AP	72/72 (100%)	65 (90%)	7 (10%)	8 28
19	CP	72/72 (100%)	66 (92%)	6 (8%)	11 36
20	AQ	94/94 (100%)	89 (95%)	5 (5%)	22 52
20	CQ	94/94 (100%)	89 (95%)	5 (5%)	22 52
21	AR	61/61 (100%)	60 (98%)	1 (2%)	62 81
21	CR	61/61 (100%)	60 (98%)	1 (2%)	62 81
22	AS	69/69 (100%)	57 (83%)	12 (17%)	2 7
22	CS	69/69 (100%)	57 (83%)	12 (17%)	2 7
23	AT	76/76 (100%)	72 (95%)	4 (5%)	22 52
23	CT	76/76 (100%)	72 (95%)	4 (5%)	22 52
24	AU	19/19 (100%)	18 (95%)	1 (5%)	22 52
24	CU	19/19 (100%)	18 (95%)	1 (5%)	22 52
27	BD	213/213 (100%)	188 (88%)	25 (12%)	5 20
27	DD	213/213 (100%)	188 (88%)	25 (12%)	5 20
28	BE	165/165 (100%)	149 (90%)	16 (10%)	8 28
28	DE	165/165 (100%)	150 (91%)	15 (9%)	9 32
29	BF	161/161 (100%)	145 (90%)	16 (10%)	8 27
29	DF	161/161 (100%)	145 (90%)	16 (10%)	8 27
30	BG	155/155 (100%)	140 (90%)	15 (10%)	8 28
30	DG	155/155 (100%)	140 (90%)	15 (10%)	8 28
31	BH	132/132 (100%)	123 (93%)	9 (7%)	16 45
31	DH	132/132 (100%)	124 (94%)	8 (6%)	18 48
32	BI	122/122 (100%)	111 (91%)	11 (9%)	9 32
32	DI	122/122 (100%)	111 (91%)	11 (9%)	9 32
33	BK	111/111 (100%)	98 (88%)	13 (12%)	5 20
33	DK	111/111 (100%)	105 (95%)	6 (5%)	22 52
34	BN	116/116 (100%)	99 (85%)	17 (15%)	3 12

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
34	DN	116/116 (100%)	99 (85%)	17 (15%)	3 12
35	BO	100/100 (100%)	95 (95%)	5 (5%)	24 54
35	DO	100/100 (100%)	94 (94%)	6 (6%)	19 49
36	BP	112/112 (100%)	87 (78%)	25 (22%)	1 2
36	DP	112/112 (100%)	87 (78%)	25 (22%)	1 2
37	BQ	105/105 (100%)	94 (90%)	11 (10%)	7 25
37	DQ	105/105 (100%)	95 (90%)	10 (10%)	8 29
38	BR	100/100 (100%)	86 (86%)	14 (14%)	3 13
38	DR	100/100 (100%)	85 (85%)	15 (15%)	3 12
39	BS	77/77 (100%)	66 (86%)	11 (14%)	3 13
39	DS	77/77 (100%)	66 (86%)	11 (14%)	3 13
40	BT	121/121 (100%)	101 (84%)	20 (16%)	2 9
40	DT	121/121 (100%)	99 (82%)	22 (18%)	1 6
41	BU	93/93 (100%)	85 (91%)	8 (9%)	10 35
41	DU	93/93 (100%)	85 (91%)	8 (9%)	10 35
42	BV	82/82 (100%)	67 (82%)	15 (18%)	1 5
42	DV	82/82 (100%)	67 (82%)	15 (18%)	1 5
43	BW	91/91 (100%)	81 (89%)	10 (11%)	6 23
43	DW	91/91 (100%)	81 (89%)	10 (11%)	6 23
44	BX	74/74 (100%)	69 (93%)	5 (7%)	16 45
44	DX	74/74 (100%)	69 (93%)	5 (7%)	16 45
45	BY	84/84 (100%)	78 (93%)	6 (7%)	14 44
45	DY	84/84 (100%)	78 (93%)	6 (7%)	14 44
46	BZ	162/162 (100%)	153 (94%)	9 (6%)	21 51
46	DZ	162/162 (100%)	153 (94%)	9 (6%)	21 51
47	B0	61/61 (100%)	52 (85%)	9 (15%)	3 12
47	D0	61/61 (100%)	52 (85%)	9 (15%)	3 12
48	B1	73/73 (100%)	58 (80%)	15 (20%)	1 3
48	D1	73/73 (100%)	58 (80%)	15 (20%)	1 3
49	B2	58/58 (100%)	52 (90%)	6 (10%)	7 26
49	D2	58/58 (100%)	51 (88%)	7 (12%)	5 18

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
50	B3	51/51 (100%)	46 (90%)	5 (10%)	8 28
50	D3	51/51 (100%)	46 (90%)	5 (10%)	8 28
51	B4	27/27 (100%)	26 (96%)	1 (4%)	34 62
51	D4	27/27 (100%)	26 (96%)	1 (4%)	34 62
52	B5	45/45 (100%)	42 (93%)	3 (7%)	16 46
52	D5	45/45 (100%)	42 (93%)	3 (7%)	16 46
53	B6	43/43 (100%)	37 (86%)	6 (14%)	3 13
53	D6	43/43 (100%)	37 (86%)	6 (14%)	3 13
54	B7	41/41 (100%)	34 (83%)	7 (17%)	2 8
54	D7	41/41 (100%)	34 (83%)	7 (17%)	2 8
55	B8	53/53 (100%)	45 (85%)	8 (15%)	3 12
55	D8	53/53 (100%)	45 (85%)	8 (15%)	3 12
All	All	10228/10228 (100%)	9223 (90%)	1005 (10%)	8 28

5 of 1005 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
48	B1	18	ILE
40	DT	111	ARG
7	CD	68	TYR
40	DT	62	THR
47	D0	20	ARG

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 268 such sidechains are listed below:

Mol	Chain	Res	Type
38	DR	53	HIS
41	DU	72	HIS
50	D3	52	HIS
41	BU	44	ASN
38	BR	91	GLN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	AA	1503/1504 (99%)	216 (14%)	20 (1%)

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	CA	1503/1504 (99%)	217 (14%)	20 (1%)
2	AV	9/10 (90%)	2 (22%)	0
2	CV	9/10 (90%)	2 (22%)	0
25	BA	2787/2879 (96%)	431 (15%)	19 (0%)
25	DA	2787/2879 (96%)	432 (15%)	19 (0%)
26	BB	118/119 (99%)	15 (12%)	0
26	DB	118/119 (99%)	15 (12%)	0
3	AW	76/77 (98%)	7 (9%)	0
3	CW	76/77 (98%)	7 (9%)	0
All	All	8986/9178 (97%)	1344 (14%)	78 (0%)

5 of 1344 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	AA	7	G
1	AA	9	G
1	AA	32	A
1	AA	39	G
1	AA	41	G

5 of 78 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	CA	1362(A)	C
25	DA	1786	A
25	DA	352	G
25	DA	1022	G
25	DA	2447	G

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 2414 ligands modelled in this entry, 2414 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	1504/1504 (100%)	0.20	37 (2%) 57 55	46, 108, 215, 381	0
1	CA	1504/1504 (100%)	0.36	40 (2%) 54 53	48, 122, 235, 451	0
2	AV	10/10 (100%)	1.06	1 (10%) 7 8	76, 120, 198, 250	0
2	CV	10/10 (100%)	0.97	3 (30%) 0 0	74, 123, 204, 230	0
3	AW	77/77 (100%)	0.28	1 (1%) 77 76	73, 106, 160, 212	0
3	CW	77/77 (100%)	0.14	1 (1%) 77 76	65, 104, 140, 219	0
4	AY	362/362 (100%)	1.93	128 (35%) 0 0	72, 164, 304, 366	0
4	CY	362/362 (100%)	2.14	131 (36%) 0 0	69, 180, 326, 473	0
5	AB	234/234 (100%)	1.25	53 (22%) 0 1	84, 152, 249, 335	0
5	CB	234/234 (100%)	1.23	63 (26%) 0 0	84, 173, 267, 348	0
6	AC	206/206 (100%)	0.57	25 (12%) 4 5	69, 141, 224, 325	0
6	CC	206/206 (100%)	0.53	22 (10%) 6 7	88, 154, 252, 385	0
7	AD	208/208 (100%)	0.25	4 (1%) 66 65	46, 104, 158, 201	0
7	CD	208/208 (100%)	0.59	19 (9%) 9 10	78, 146, 224, 346	0
8	AE	151/151 (100%)	0.29	13 (8%) 10 12	61, 102, 156, 274	0
8	CE	151/151 (100%)	0.62	15 (9%) 7 8	84, 125, 202, 274	0
9	AF	101/101 (100%)	0.72	17 (16%) 1 2	92, 150, 222, 283	0
9	CF	101/101 (100%)	0.28	10 (9%) 7 8	60, 104, 157, 216	0
10	AG	155/155 (100%)	0.60	17 (10%) 5 6	81, 147, 220, 290	0
10	CG	155/155 (100%)	0.56	19 (12%) 4 5	91, 147, 209, 352	0
11	AH	138/138 (100%)	0.27	7 (5%) 28 28	58, 110, 163, 235	0
11	CH	138/138 (100%)	0.54	9 (6%) 18 20	74, 130, 191, 271	0
12	AI	127/127 (100%)	1.61	41 (32%) 0 0	94, 172, 247, 329	0
12	CI	127/127 (100%)	1.65	40 (31%) 0 0	85, 174, 242, 307	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	AJ	98/98 (100%)	1.79	34 (34%) 0 0	85, 172, 278, 357	0
13	CJ	98/98 (100%)	2.15	37 (37%) 0 0	86, 197, 311, 435	0
14	AK	114/114 (100%)	0.84	19 (16%) 1 2	59, 110, 172, 233	0
14	CK	114/114 (100%)	0.47	7 (6%) 21 22	55, 99, 165, 372	0
15	AL	122/122 (100%)	0.23	3 (2%) 57 55	44, 85, 148, 192	0
15	CL	122/122 (100%)	0.25	3 (2%) 57 55	48, 99, 149, 268	0
16	AM	117/117 (100%)	0.64	15 (12%) 3 4	81, 166, 258, 377	0
16	CM	117/117 (100%)	1.12	20 (17%) 1 2	109, 159, 244, 340	0
17	AN	60/60 (100%)	0.82	10 (16%) 1 2	72, 128, 174, 224	0
17	CN	60/60 (100%)	1.05	11 (18%) 1 1	80, 151, 191, 265	0
18	AO	88/88 (100%)	0.46	2 (2%) 60 59	67, 109, 157, 188	0
18	CO	88/88 (100%)	0.12	1 (1%) 80 79	58, 106, 146, 168	0
19	AP	83/83 (100%)	0.62	4 (4%) 30 31	65, 99, 135, 245	0
19	CP	83/83 (100%)	1.39	26 (31%) 0 0	78, 139, 192, 243	0
20	AQ	99/99 (100%)	0.33	4 (4%) 38 37	63, 102, 157, 211	0
20	CQ	99/99 (100%)	0.67	6 (6%) 21 22	76, 116, 167, 283	0
21	AR	70/70 (100%)	2.07	28 (40%) 0 0	76, 134, 215, 266	0
21	CR	70/70 (100%)	0.90	10 (14%) 2 3	70, 112, 182, 225	0
22	AS	78/78 (100%)	1.44	25 (32%) 0 0	113, 164, 229, 318	0
22	CS	78/78 (100%)	1.62	28 (35%) 0 0	112, 174, 250, 339	0
23	AT	99/99 (100%)	0.84	14 (14%) 2 3	68, 115, 202, 272	0
23	CT	99/99 (100%)	0.80	17 (17%) 1 1	84, 134, 222, 336	0
24	AU	24/24 (100%)	3.89	23 (95%) 0 0	102, 150, 217, 233	0
24	CU	24/24 (100%)	3.60	19 (79%) 0 0	126, 169, 229, 236	0
25	BA	2789/2879 (96%)	0.12	72 (2%) 56 54	36, 76, 211, 411	0
25	DA	2789/2879 (96%)	0.06	84 (3%) 50 49	27, 65, 189, 401	0
26	BB	119/119 (100%)	0.27	0 100 100	63, 129, 186, 245	0
26	DB	119/119 (100%)	0.30	2 (1%) 70 68	73, 119, 167, 276	0
27	BD	271/271 (100%)	0.30	13 (4%) 30 31	31, 66, 114, 224	0
27	DD	271/271 (100%)	-0.01	5 (1%) 68 67	14, 56, 107, 221	0
28	BE	204/204 (100%)	0.40	10 (4%) 29 29	35, 82, 148, 377	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	DE	204/204 (100%)	0.09	5 (2%) 57 55	29, 74, 138, 256	0
29	BF	202/202 (100%)	0.01	1 (0%) 91 90	28, 81, 163, 345	0
29	DF	202/202 (100%)	0.10	2 (0%) 82 81	13, 69, 145, 300	0
30	BG	181/181 (100%)	1.06	40 (22%) 0 1	78, 147, 221, 323	0
30	DG	181/181 (100%)	0.75	29 (16%) 1 2	73, 136, 220, 288	0
31	BH	159/159 (100%)	1.37	49 (30%) 0 0	86, 172, 263, 376	0
31	DH	159/159 (100%)	0.07	7 (4%) 34 34	48, 100, 157, 286	0
32	BI	145/145 (100%)	2.16	60 (41%) 0 0	74, 188, 473, 558	0
32	DI	145/145 (100%)	0.76	15 (10%) 6 8	47, 118, 209, 462	0
33	BK	147/147 (100%)	5.37	122 (82%) 0 0	155, 266, 359, 430	0
33	DK	147/147 (100%)	4.51	120 (81%) 0 0	115, 275, 372, 435	0
34	BN	137/137 (100%)	0.44	6 (4%) 34 34	51, 89, 139, 220	0
34	DN	137/137 (100%)	0.02	0 100 100	37, 84, 149, 192	0
35	BO	122/122 (100%)	-0.15	0 100 100	44, 77, 121, 158	0
35	DO	122/122 (100%)	-0.15	0 100 100	31, 67, 117, 149	0
36	BP	146/146 (100%)	0.75	13 (8%) 9 11	27, 100, 201, 293	0
36	DP	146/146 (100%)	0.55	15 (10%) 6 8	23, 85, 172, 304	0
37	BQ	134/134 (100%)	0.39	7 (5%) 27 27	45, 86, 159, 419	0
37	DQ	134/134 (100%)	0.25	7 (5%) 27 27	41, 83, 175, 469	0
38	BR	117/117 (100%)	0.21	1 (0%) 84 83	37, 83, 141, 190	0
38	DR	117/117 (100%)	0.13	4 (3%) 45 44	32, 74, 137, 174	0
39	BS	98/98 (100%)	1.15	25 (25%) 0 0	61, 135, 212, 245	0
39	DS	98/98 (100%)	0.70	14 (14%) 2 3	72, 116, 180, 203	0
40	BT	137/137 (100%)	0.51	7 (5%) 28 28	54, 95, 195, 362	0
40	DT	137/137 (100%)	0.44	14 (10%) 6 8	34, 90, 194, 343	0
41	BU	117/117 (100%)	0.47	6 (5%) 28 28	36, 73, 137, 173	0
41	DU	117/117 (100%)	0.57	4 (3%) 45 44	35, 74, 125, 363	0
42	BV	101/101 (100%)	0.16	2 (1%) 65 64	49, 93, 159, 283	0
42	DV	101/101 (100%)	0.44	9 (8%) 9 11	34, 96, 153, 283	0
43	BW	112/112 (100%)	-0.09	1 (0%) 84 83	28, 66, 124, 378	0
43	DW	112/112 (100%)	-0.11	0 100 100	38, 66, 125, 210	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	BX	92/92 (100%)	0.08	2 (2%) 62 60	61, 87, 139, 179	0
44	DX	92/92 (100%)	0.09	1 (1%) 80 79	34, 66, 106, 168	0
45	BY	100/100 (100%)	1.41	23 (23%) 0 1	46, 112, 248, 418	0
45	DY	100/100 (100%)	1.11	15 (15%) 2 2	50, 92, 223, 452	0
46	BZ	187/187 (100%)	0.67	17 (9%) 9 10	75, 130, 200, 267	0
46	DZ	187/187 (100%)	0.46	11 (5%) 22 23	56, 123, 182, 260	0
47	B0	76/76 (100%)	0.30	2 (2%) 56 54	54, 84, 150, 259	0
47	D0	76/76 (100%)	0.33	3 (3%) 39 38	37, 80, 115, 238	0
48	B1	88/88 (100%)	0.44	5 (5%) 23 24	46, 90, 156, 264	0
48	D1	88/88 (100%)	0.36	4 (4%) 33 33	23, 69, 147, 267	0
49	B2	62/62 (100%)	0.50	6 (9%) 7 9	67, 119, 210, 257	0
49	D2	62/62 (100%)	0.61	7 (11%) 5 6	33, 75, 176, 304	0
50	B3	59/59 (100%)	0.86	6 (10%) 6 8	52, 80, 144, 224	0
50	D3	59/59 (100%)	0.42	3 (5%) 28 28	42, 81, 143, 236	0
51	B4	30/30 (100%)	0.75	5 (16%) 1 2	107, 184, 297, 335	0
51	D4	30/30 (100%)	1.43	11 (36%) 0 0	125, 215, 272, 361	0
52	B5	52/52 (100%)	0.33	3 (5%) 23 24	32, 75, 181, 213	0
52	D5	52/52 (100%)	-0.14	1 (1%) 66 65	20, 77, 172, 269	0
53	B6	44/44 (100%)	8.21	44 (100%) 0 0	118, 225, 304, 330	0
53	D6	44/44 (100%)	7.05	42 (95%) 0 0	136, 208, 276, 330	0
54	B7	48/48 (100%)	0.89	6 (12%) 3 4	35, 60, 131, 156	0
54	D7	48/48 (100%)	0.27	3 (6%) 20 21	19, 36, 94, 156	0
55	B8	63/63 (100%)	0.39	2 (3%) 47 46	38, 78, 155, 190	0
55	D8	63/63 (100%)	0.24	3 (4%) 30 31	33, 62, 142, 213	0
All	All	21328/21508 (99%)	0.56	2078 (9%) 7 9	13, 103, 238, 558	0

The worst 5 of 2078 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
33	DK	6	ALA	23.8
53	B6	40	CYS	20.9
33	DK	1	MET	20.5
33	BK	135	GLY	18.7
53	D6	13	CYS	18.6

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
56	MG	BA	3022	1/1	-0.48	0.79	168,168,168,168	0
56	MG	AA	1831	1/1	-0.15	1.10	203,203,203,203	0
56	MG	BA	2918	1/1	-0.08	1.68	191,191,191,191	0
56	MG	CA	1792	1/1	-0.04	1.12	122,122,122,122	0
56	MG	AA	1854	1/1	-0.03	0.48	187,187,187,187	0
56	MG	CA	1746	1/1	0.01	0.15	255,255,255,255	0
56	MG	BA	3197	1/1	0.01	0.14	215,215,215,215	0
56	MG	CA	1626	1/1	0.04	0.43	109,109,109,109	0
56	MG	DA	2921	1/1	0.04	0.21	113,113,113,113	0
56	MG	AA	1764	1/1	0.06	0.91	103,103,103,103	0
56	MG	CA	1898	1/1	0.07	0.36	126,126,126,126	0
56	MG	AA	1780	1/1	0.07	1.15	105,105,105,105	0
56	MG	AT	201	1/1	0.09	0.32	117,117,117,117	0
56	MG	CA	1736	1/1	0.10	0.39	193,193,193,193	0
56	MG	CA	1677	1/1	0.11	1.25	138,138,138,138	0
56	MG	BA	3078	1/1	0.14	0.76	117,117,117,117	0
56	MG	DA	3348	1/1	0.14	0.71	165,165,165,165	0
56	MG	AC	301	1/1	0.17	1.50	98,98,98,98	0
56	MG	BA	3435	1/1	0.22	1.05	112,112,112,112	0
56	MG	DA	3484	1/1	0.26	0.59	98,98,98,98	0
56	MG	BA	3717	1/1	0.27	0.16	100,100,100,100	0
56	MG	BB	223	1/1	0.28	0.41	242,242,242,242	0
56	MG	CA	1633	1/1	0.28	0.33	143,143,143,143	0
56	MG	DB	218	1/1	0.28	0.51	111,111,111,111	0
56	MG	BA	3713	1/1	0.29	0.98	123,123,123,123	0
56	MG	DA	3072	1/1	0.30	0.63	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1979	1/1	0.31	0.77	118,118,118,118	0
56	MG	CA	1631	1/1	0.32	1.38	119,119,119,119	0
56	MG	BA	3153	1/1	0.32	0.33	81,81,81,81	0
56	MG	BA	3369	1/1	0.35	1.02	74,74,74,74	0
56	MG	AA	1765	1/1	0.35	0.61	74,74,74,74	0
56	MG	CA	1809	1/1	0.35	1.24	117,117,117,117	0
56	MG	CA	1613	1/1	0.36	0.87	71,71,71,71	0
56	MG	DA	3004	1/1	0.37	0.41	100,100,100,100	0
56	MG	AA	1612	1/1	0.38	0.67	87,87,87,87	0
56	MG	CA	1748	1/1	0.38	0.52	78,78,78,78	0
56	MG	CA	1605	1/1	0.38	0.31	159,159,159,159	0
56	MG	BA	3672	1/1	0.38	0.47	88,88,88,88	0
56	MG	BA	3718	1/1	0.38	0.25	163,163,163,163	0
56	MG	CA	1912	1/1	0.38	0.43	152,152,152,152	0
56	MG	DB	209	1/1	0.39	0.73	143,143,143,143	0
56	MG	DA	3541	1/1	0.39	0.79	70,70,70,70	0
56	MG	CA	1806	1/1	0.40	0.32	95,95,95,95	0
56	MG	AA	1629	1/1	0.40	0.90	83,83,83,83	0
56	MG	AA	1717	1/1	0.40	0.31	99,99,99,99	0
56	MG	AA	1950	1/1	0.41	0.41	102,102,102,102	0
56	MG	CA	1833	1/1	0.41	0.82	65,65,65,65	0
56	MG	CA	1741	1/1	0.41	0.30	104,104,104,104	0
56	MG	CA	1606	1/1	0.42	0.37	115,115,115,115	0
56	MG	BA	3186	1/1	0.42	0.47	98,98,98,98	0
56	MG	BA	2922	1/1	0.42	0.75	108,108,108,108	0
56	MG	BA	3592	1/1	0.42	0.24	132,132,132,132	0
56	MG	BA	3607	1/1	0.43	0.18	105,105,105,105	0
56	MG	BA	3450	1/1	0.43	0.97	83,83,83,83	0
56	MG	DA	3092	1/1	0.43	1.39	200,200,200,200	0
56	MG	CA	1800	1/1	0.43	0.63	124,124,124,124	0
56	MG	AA	1723	1/1	0.44	0.31	106,106,106,106	0
56	MG	AA	1642	1/1	0.44	0.30	120,120,120,120	0
56	MG	AA	1945	1/1	0.44	0.41	115,115,115,115	0
56	MG	DA	3401	1/1	0.46	0.39	81,81,81,81	0
56	MG	AA	1697	1/1	0.46	0.20	148,148,148,148	0
56	MG	BA	3588	1/1	0.46	0.80	120,120,120,120	0
56	MG	CY	401	1/1	0.46	0.53	103,103,103,103	0
56	MG	CA	1699	1/1	0.46	0.44	152,152,152,152	0
56	MG	CA	1860	1/1	0.47	0.27	133,133,133,133	0
56	MG	AA	1639	1/1	0.47	0.79	114,114,114,114	0
56	MG	DA	2948	1/1	0.47	0.64	94,94,94,94	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3591	1/1	0.47	1.28	102,102,102,102	0
56	MG	CA	1772	1/1	0.48	0.64	66,66,66,66	0
56	MG	CA	1681	1/1	0.48	0.56	136,136,136,136	0
56	MG	BA	3618	1/1	0.48	0.58	79,79,79,79	0
56	MG	CA	1643	1/1	0.49	0.10	126,126,126,126	0
56	MG	DA	3054	1/1	0.49	0.64	93,93,93,93	0
56	MG	CA	1794	1/1	0.50	0.34	60,60,60,60	0
56	MG	BA	3542	1/1	0.50	0.40	116,116,116,116	0
56	MG	AA	1770	1/1	0.50	0.36	86,86,86,86	0
56	MG	BB	206	1/1	0.50	0.23	188,188,188,188	0
56	MG	CA	1750	1/1	0.50	0.25	222,222,222,222	0
56	MG	AA	1957	1/1	0.50	0.79	109,109,109,109	0
56	MG	BA	3247	1/1	0.50	0.55	105,105,105,105	0
56	MG	DA	3044	1/1	0.51	0.42	87,87,87,87	0
56	MG	CA	1712	1/1	0.51	0.21	106,106,106,106	0
56	MG	CA	1856	1/1	0.52	0.40	136,136,136,136	0
56	MG	CA	1732	1/1	0.52	0.77	131,131,131,131	0
56	MG	CA	1777	1/1	0.52	0.29	98,98,98,98	0
56	MG	AA	1653	1/1	0.52	0.26	105,105,105,105	0
56	MG	BA	3261	1/1	0.52	0.72	89,89,89,89	0
56	MG	CA	1842	1/1	0.52	0.79	137,137,137,137	0
56	MG	DV	201	1/1	0.52	0.43	85,85,85,85	0
56	MG	BA	3213	1/1	0.53	0.48	125,125,125,125	0
56	MG	BA	3606	1/1	0.53	0.38	72,72,72,72	0
56	MG	BA	3569	1/1	0.53	0.48	87,87,87,87	0
56	MG	BA	3003	1/1	0.53	0.59	113,113,113,113	0
56	MG	AA	1687	1/1	0.53	0.13	85,85,85,85	0
56	MG	CA	1725	1/1	0.54	0.90	78,78,78,78	0
56	MG	AA	1796	1/1	0.54	0.68	129,129,129,129	0
56	MG	DB	204	1/1	0.54	0.28	78,78,78,78	0
56	MG	AA	1846	1/1	0.54	0.42	118,118,118,118	0
56	MG	BA	3548	1/1	0.54	0.64	88,88,88,88	0
56	MG	CA	1914	1/1	0.54	0.27	96,96,96,96	0
56	MG	AA	1804	1/1	0.55	1.32	108,108,108,108	0
56	MG	DA	3405	1/1	0.55	0.21	91,91,91,91	0
56	MG	CA	1817	1/1	0.55	0.32	111,111,111,111	0
56	MG	BA	3119	1/1	0.55	1.15	133,133,133,133	0
56	MG	CA	1907	1/1	0.55	0.54	77,77,77,77	0
56	MG	BA	3665	1/1	0.55	0.24	117,117,117,117	0
56	MG	DA	3350	1/1	0.55	0.19	76,76,76,76	0
56	MG	DA	3351	1/1	0.55	0.45	116,116,116,116	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3583	1/1	0.56	0.69	87,87,87,87	0
56	MG	DA	3582	1/1	0.56	0.38	95,95,95,95	0
56	MG	DA	3060	1/1	0.56	0.20	77,77,77,77	0
56	MG	BA	2950	1/1	0.56	0.85	87,87,87,87	0
56	MG	CA	1706	1/1	0.56	0.18	88,88,88,88	0
56	MG	BA	3600	1/1	0.56	0.59	73,73,73,73	0
56	MG	BA	3064	1/1	0.57	0.44	63,63,63,63	0
56	MG	BA	2974	1/1	0.57	0.29	85,85,85,85	0
56	MG	BA	2997	1/1	0.57	0.21	104,104,104,104	0
56	MG	BA	2935	1/1	0.57	0.53	89,89,89,89	0
56	MG	CA	1820	1/1	0.57	0.85	193,193,193,193	0
56	MG	BA	3263	1/1	0.57	0.40	66,66,66,66	0
56	MG	BA	3173	1/1	0.57	0.81	67,67,67,67	0
56	MG	AA	1790	1/1	0.57	0.40	53,53,53,53	0
56	MG	DA	2949	1/1	0.57	1.12	94,94,94,94	0
56	MG	BA	3236	1/1	0.58	0.34	132,132,132,132	0
56	MG	DA	3548	1/1	0.58	0.43	85,85,85,85	0
56	MG	AA	1728	1/1	0.58	0.21	130,130,130,130	0
56	MG	BA	3599	1/1	0.58	0.59	93,93,93,93	0
56	MG	AA	1783	1/1	0.58	0.41	127,127,127,127	0
56	MG	DA	3244	1/1	0.58	0.22	59,59,59,59	0
56	MG	DA	3248	1/1	0.58	1.19	66,66,66,66	0
56	MG	AA	1699	1/1	0.59	0.42	85,85,85,85	0
56	MG	CA	1724	1/1	0.59	0.30	108,108,108,108	0
56	MG	BA	2915	1/1	0.59	0.27	102,102,102,102	0
56	MG	BA	2939	1/1	0.59	0.45	79,79,79,79	0
56	MG	BB	211	1/1	0.59	1.35	132,132,132,132	0
56	MG	BA	3012	1/1	0.59	0.99	91,91,91,91	0
56	MG	AA	1631	1/1	0.59	0.81	76,76,76,76	0
56	MG	BA	2958	1/1	0.59	0.15	103,103,103,103	0
56	MG	DA	3339	1/1	0.59	0.32	63,63,63,63	0
56	MG	BA	2959	1/1	0.59	0.71	81,81,81,81	0
56	MG	CA	1710	1/1	0.59	1.27	97,97,97,97	0
56	MG	AW	109	1/1	0.60	0.69	91,91,91,91	0
56	MG	AA	1767	1/1	0.60	0.56	102,102,102,102	0
56	MG	CA	1753	1/1	0.60	0.28	63,63,63,63	0
56	MG	DA	3531	1/1	0.60	0.42	92,92,92,92	0
56	MG	CA	1682	1/1	0.60	0.14	152,152,152,152	0
56	MG	CA	1687	1/1	0.60	0.20	58,58,58,58	0
56	MG	CA	1836	1/1	0.60	0.33	94,94,94,94	0
56	MG	CA	1837	1/1	0.60	0.24	66,66,66,66	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1689	1/1	0.60	0.14	169,169,169,169	0
56	MG	AW	107	1/1	0.60	0.46	102,102,102,102	0
56	MG	BA	2943	1/1	0.60	1.09	98,98,98,98	0
56	MG	AT	203	1/1	0.61	1.74	99,99,99,99	0
56	MG	BA	3697	1/1	0.61	0.12	64,64,64,64	0
56	MG	BA	3011	1/1	0.61	0.58	82,82,82,82	0
56	MG	BA	3158	1/1	0.61	0.28	150,150,150,150	0
56	MG	BA	2926	1/1	0.61	0.56	80,80,80,80	0
56	MG	BA	3584	1/1	0.61	0.49	96,96,96,96	0
56	MG	BA	3175	1/1	0.61	0.54	109,109,109,109	0
56	MG	CA	1752	1/1	0.61	0.44	83,83,83,83	0
56	MG	DA	3381	1/1	0.61	0.44	43,43,43,43	0
56	MG	BA	3465	1/1	0.61	0.60	114,114,114,114	0
56	MG	BA	3589	1/1	0.62	0.20	135,135,135,135	0
56	MG	CA	1640	1/1	0.62	0.33	78,78,78,78	0
56	MG	CA	1816	1/1	0.62	0.64	77,77,77,77	0
56	MG	BA	3168	1/1	0.62	1.18	78,78,78,78	0
56	MG	DA	3577	1/1	0.62	0.64	80,80,80,80	0
56	MG	CA	1647	1/1	0.62	0.43	98,98,98,98	0
56	MG	DA	3626	1/1	0.62	0.29	117,117,117,117	0
56	MG	DA	3632	1/1	0.62	0.19	135,135,135,135	0
56	MG	CA	1669	1/1	0.62	1.73	118,118,118,118	0
56	MG	DB	205	1/1	0.62	0.33	94,94,94,94	0
56	MG	BA	3602	1/1	0.62	0.46	117,117,117,117	0
56	MG	AA	1726	1/1	0.62	0.51	141,141,141,141	0
56	MG	DA	2914	1/1	0.62	0.46	97,97,97,97	0
56	MG	AA	1947	1/1	0.63	0.49	89,89,89,89	0
56	MG	BA	3722	1/1	0.63	0.26	80,80,80,80	0
56	MG	BA	3081	1/1	0.63	0.18	79,79,79,79	0
56	MG	CA	1920	1/1	0.63	0.13	138,138,138,138	0
56	MG	CA	1735	1/1	0.63	0.84	108,108,108,108	0
56	MG	DA	3398	1/1	0.63	0.79	107,107,107,107	0
56	MG	DA	2903	1/1	0.63	0.45	77,77,77,77	0
56	MG	BA	3085	1/1	0.63	0.49	116,116,116,116	0
56	MG	DB	208	1/1	0.63	0.31	83,83,83,83	0
56	MG	AY	403	1/1	0.63	0.87	87,87,87,87	0
56	MG	DA	3497	1/1	0.63	0.28	61,61,61,61	0
56	MG	CA	1603	1/1	0.63	0.23	255,255,255,255	0
56	MG	BA	3482	1/1	0.64	1.30	74,74,74,74	0
56	MG	AA	1727	1/1	0.64	0.48	93,93,93,93	0
56	MG	AA	1742	1/1	0.64	1.36	197,197,197,197	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	CA	1926	1/1	0.64	0.73	101,101,101,101	0
56	MG	DA	3097	1/1	0.64	0.51	68,68,68,68	0
56	MG	DA	2953	1/1	0.64	0.17	151,151,151,151	0
56	MG	AA	1855	1/1	0.64	0.15	103,103,103,103	0
56	MG	DA	3428	1/1	0.64	0.65	71,71,71,71	0
56	MG	DA	3308	1/1	0.64	0.90	72,72,72,72	0
56	MG	DA	3489	1/1	0.64	0.33	51,51,51,51	0
56	MG	BA	3573	1/1	0.64	0.24	81,81,81,81	0
56	MG	DA	3516	1/1	0.64	0.42	70,70,70,70	0
56	MG	DA	3527	1/1	0.64	0.27	77,77,77,77	0
56	MG	DA	3052	1/1	0.65	0.52	76,76,76,76	0
56	MG	CA	1796	1/1	0.65	0.16	41,41,41,41	0
56	MG	AA	1645	1/1	0.65	0.32	82,82,82,82	0
56	MG	CA	1645	1/1	0.65	1.03	113,113,113,113	0
56	MG	CA	1828	1/1	0.65	0.28	135,135,135,135	0
56	MG	AA	1702	1/1	0.65	0.65	97,97,97,97	0
56	MG	BA	3105	1/1	0.66	0.24	122,122,122,122	0
56	MG	CA	1740	1/1	0.66	0.21	101,101,101,101	0
56	MG	CA	1884	1/1	0.66	0.53	79,79,79,79	0
56	MG	AA	1890	1/1	0.66	0.15	124,124,124,124	0
56	MG	DA	3088	1/1	0.66	0.38	86,86,86,86	0
56	MG	AA	1782	1/1	0.66	0.56	77,77,77,77	0
56	MG	BA	3577	1/1	0.66	0.91	88,88,88,88	0
56	MG	DA	3118	1/1	0.66	0.18	61,61,61,61	0
56	MG	DA	3122	1/1	0.66	0.35	67,67,67,67	0
56	MG	BA	2949	1/1	0.66	0.43	70,70,70,70	0
56	MG	DA	3001	1/1	0.66	0.53	79,79,79,79	0
56	MG	AY	401	1/1	0.66	0.54	119,119,119,119	0
56	MG	CA	1646	1/1	0.66	0.12	113,113,113,113	0
56	MG	BA	3255	1/1	0.67	0.38	66,66,66,66	0
56	MG	CA	1874	1/1	0.67	1.45	89,89,89,89	0
56	MG	CA	1877	1/1	0.67	0.84	154,154,154,154	0
56	MG	CA	1882	1/1	0.67	0.52	81,81,81,81	0
56	MG	BB	216	1/1	0.67	0.54	109,109,109,109	0
56	MG	BA	2976	1/1	0.67	0.44	112,112,112,112	0
56	MG	CA	1658	1/1	0.67	0.49	93,93,93,93	0
56	MG	AW	102	1/1	0.67	0.48	94,94,94,94	0
56	MG	CA	1671	1/1	0.67	0.31	92,92,92,92	0
56	MG	AW	104	1/1	0.67	1.33	95,95,95,95	0
56	MG	AA	1688	1/1	0.67	0.24	80,80,80,80	0
56	MG	AA	1952	1/1	0.67	0.09	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3111	1/1	0.67	0.12	96,96,96,96	0
56	MG	BA	3212	1/1	0.67	0.36	109,109,109,109	0
56	MG	BA	2946	1/1	0.67	0.46	61,61,61,61	0
56	MG	BA	3123	1/1	0.67	0.25	156,156,156,156	0
56	MG	BA	3062	1/1	0.67	0.21	110,110,110,110	0
56	MG	CA	1843	1/1	0.67	0.32	103,103,103,103	0
56	MG	CA	1854	1/1	0.67	0.41	98,98,98,98	0
56	MG	CA	1790	1/1	0.67	0.84	86,86,86,86	0
56	MG	CW	113	1/1	0.68	0.20	89,89,89,89	0
56	MG	CA	1698	1/1	0.68	0.27	100,100,100,100	0
56	MG	CA	1801	1/1	0.68	0.31	76,76,76,76	0
56	MG	AW	113	1/1	0.68	0.31	96,96,96,96	0
56	MG	CA	1703	1/1	0.68	0.19	89,89,89,89	0
56	MG	DA	2940	1/1	0.68	0.18	94,94,94,94	0
56	MG	AW	115	1/1	0.68	0.35	111,111,111,111	0
56	MG	DA	3532	1/1	0.68	0.25	72,72,72,72	0
56	MG	AA	1619	1/1	0.68	0.74	69,69,69,69	0
56	MG	DA	3544	1/1	0.68	0.41	73,73,73,73	0
56	MG	BA	3284	1/1	0.68	0.46	82,82,82,82	0
56	MG	DA	2964	1/1	0.68	0.41	65,65,65,65	0
56	MG	DA	3343	1/1	0.68	0.49	76,76,76,76	0
56	MG	DA	2975	1/1	0.68	0.91	79,79,79,79	0
56	MG	BA	3290	1/1	0.68	0.25	77,77,77,77	0
56	MG	AA	1917	1/1	0.68	0.15	86,86,86,86	0
56	MG	DA	3373	1/1	0.68	0.19	86,86,86,86	0
56	MG	BA	3218	1/1	0.68	0.60	82,82,82,82	0
56	MG	BA	3065	1/1	0.68	0.23	90,90,90,90	0
56	MG	BA	3073	1/1	0.68	0.51	124,124,124,124	0
56	MG	BA	3639	1/1	0.68	0.41	79,79,79,79	0
56	MG	CA	1783	1/1	0.69	0.10	82,82,82,82	0
56	MG	DA	3073	1/1	0.69	0.46	80,80,80,80	0
56	MG	DA	3075	1/1	0.69	0.38	75,75,75,75	0
56	MG	AA	1824	1/1	0.69	0.68	108,108,108,108	0
56	MG	DA	2911	1/1	0.69	1.04	84,84,84,84	0
56	MG	CA	1731	1/1	0.69	0.11	139,139,139,139	0
56	MG	DA	3511	1/1	0.69	0.36	64,64,64,64	0
56	MG	BA	3663	1/1	0.69	0.28	105,105,105,105	0
56	MG	DA	3119	1/1	0.69	0.50	82,82,82,82	0
56	MG	AA	1829	1/1	0.69	1.54	232,232,232,232	0
56	MG	DA	3128	1/1	0.69	0.27	101,101,101,101	0
56	MG	AA	1879	1/1	0.69	0.48	99,99,99,99	0
56	MG	BA	2932	1/1	0.69	0.16	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3536	1/1	0.69	0.64	66,66,66,66	0
56	MG	DA	3338	1/1	0.69	0.79	76,76,76,76	0
56	MG	CA	1743	1/1	0.69	0.34	169,169,169,169	0
56	MG	BA	3596	1/1	0.69	0.38	140,140,140,140	0
56	MG	AA	1772	1/1	0.69	0.41	94,94,94,94	0
56	MG	AA	1794	1/1	0.69	0.15	151,151,151,151	0
56	MG	BA	3202	1/1	0.69	0.20	205,205,205,205	0
56	MG	DA	3353	1/1	0.69	0.11	66,66,66,66	0
56	MG	BA	2941	1/1	0.69	0.37	87,87,87,87	0
56	MG	AA	1934	1/1	0.69	0.40	96,96,96,96	0
56	MG	BA	3393	1/1	0.69	0.17	99,99,99,99	0
56	MG	DA	3326	1/1	0.70	0.42	47,47,47,47	0
56	MG	AA	1981	1/1	0.70	0.18	90,90,90,90	0
56	MG	CA	1719	1/1	0.70	0.50	106,106,106,106	0
56	MG	BB	208	1/1	0.70	0.70	82,82,82,82	0
56	MG	AA	1615	1/1	0.70	0.17	87,87,87,87	0
56	MG	BA	3239	1/1	0.70	0.45	99,99,99,99	0
56	MG	DA	3086	1/1	0.70	0.77	120,120,120,120	0
56	MG	BA	3533	1/1	0.70	0.17	97,97,97,97	0
56	MG	CA	1822	1/1	0.70	0.27	112,112,112,112	0
56	MG	CA	1734	1/1	0.70	0.22	196,196,196,196	0
56	MG	BA	3332	1/1	0.70	0.83	58,58,58,58	0
56	MG	AW	110	1/1	0.70	0.27	145,145,145,145	0
56	MG	DA	2983	1/1	0.70	0.33	77,77,77,77	0
56	MG	CA	1739	1/1	0.70	0.16	122,122,122,122	0
56	MG	DA	3439	1/1	0.70	0.34	66,66,66,66	0
56	MG	AA	1672	1/1	0.70	0.66	73,73,73,73	0
56	MG	CA	1607	1/1	0.70	0.43	138,138,138,138	0
56	MG	BA	2920	1/1	0.70	0.41	70,70,70,70	0
56	MG	DA	2917	1/1	0.71	0.45	83,83,83,83	0
56	MG	CA	1614	1/1	0.71	0.42	122,122,122,122	0
56	MG	AA	1990	1/1	0.71	0.24	58,58,58,58	0
56	MG	DA	3346	1/1	0.71	0.26	90,90,90,90	0
56	MG	BA	3080	1/1	0.71	0.31	112,112,112,112	0
56	MG	AA	1621	1/1	0.71	0.17	74,74,74,74	0
56	MG	BA	2993	1/1	0.71	0.30	57,57,57,57	0
56	MG	BA	3540	1/1	0.71	0.59	84,84,84,84	0
56	MG	BA	3224	1/1	0.71	0.64	85,85,85,85	0
56	MG	BA	3230	1/1	0.71	0.58	103,103,103,103	0
56	MG	DA	3385	1/1	0.71	0.40	77,77,77,77	0
56	MG	BA	3676	1/1	0.71	0.43	181,181,181,181	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3553	1/1	0.71	0.46	92,92,92,92	0
56	MG	DA	3016	1/1	0.71	0.41	99,99,99,99	0
56	MG	DA	3023	1/1	0.71	0.40	71,71,71,71	0
56	MG	BA	3709	1/1	0.71	0.34	97,97,97,97	0
56	MG	BA	2996	1/1	0.71	0.19	209,209,209,209	0
56	MG	CA	1675	1/1	0.71	0.45	75,75,75,75	0
56	MG	DA	3059	1/1	0.71	0.30	82,82,82,82	0
56	MG	AA	1786	1/1	0.71	0.46	71,71,71,71	0
56	MG	AA	1632	1/1	0.71	0.45	87,87,87,87	0
56	MG	BA	3004	1/1	0.71	0.46	99,99,99,99	0
56	MG	BA	3131	1/1	0.71	0.36	65,65,65,65	0
56	MG	CA	1902	1/1	0.71	0.63	128,128,128,128	0
56	MG	AA	1951	1/1	0.71	0.50	73,73,73,73	0
56	MG	BA	2917	1/1	0.71	0.59	188,188,188,188	0
56	MG	AA	1605	1/1	0.71	0.19	142,142,142,142	0
56	MG	BA	3170	1/1	0.71	0.37	60,60,60,60	0
56	MG	AA	1892	1/1	0.71	0.24	108,108,108,108	0
56	MG	AA	1839	1/1	0.71	0.52	88,88,88,88	0
56	MG	AA	1660	1/1	0.71	0.27	105,105,105,105	0
56	MG	DA	3243	1/1	0.71	0.55	77,77,77,77	0
56	MG	CA	1807	1/1	0.71	0.70	195,195,195,195	0
56	MG	DA	2910	1/1	0.71	0.10	90,90,90,90	0
56	MG	DA	3284	1/1	0.71	0.36	53,53,53,53	0
56	MG	BA	2973	1/1	0.71	0.53	160,160,160,160	0
56	MG	BA	3605	1/1	0.71	0.09	72,72,72,72	0
56	MG	CA	1904	1/1	0.72	0.26	80,80,80,80	0
56	MG	BA	3093	1/1	0.72	0.43	55,55,55,55	0
56	MG	CA	1802	1/1	0.72	0.31	61,61,61,61	0
56	MG	BA	3098	1/1	0.72	0.59	94,94,94,94	0
56	MG	BA	3189	1/1	0.72	0.45	105,105,105,105	0
56	MG	BA	3307	1/1	0.72	0.20	83,83,83,83	0
56	MG	BA	3711	1/1	0.72	0.16	104,104,104,104	0
56	MG	DA	3430	1/1	0.72	0.16	80,80,80,80	0
56	MG	BA	3194	1/1	0.72	0.34	91,91,91,91	0
56	MG	DA	3449	1/1	0.72	0.25	53,53,53,53	0
56	MG	CD	302	1/1	0.72	0.43	111,111,111,111	0
56	MG	BA	3055	1/1	0.72	0.28	71,71,71,71	0
56	MG	BA	2951	1/1	0.72	0.16	50,50,50,50	0
56	MG	AG	201	1/1	0.72	0.88	78,78,78,78	0
56	MG	BA	3448	1/1	0.72	0.35	72,72,72,72	0
56	MG	CA	1676	1/1	0.72	0.21	88,88,88,88	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3597	1/1	0.72	0.54	91,91,91,91	0
56	MG	CA	1840	1/1	0.72	0.56	101,101,101,101	0
56	MG	DA	2944	1/1	0.72	0.18	94,94,94,94	0
56	MG	BA	3002	1/1	0.72	0.40	91,91,91,91	0
56	MG	AA	1942	1/1	0.72	0.16	92,92,92,92	0
56	MG	BA	3147	1/1	0.72	0.42	88,88,88,88	0
56	MG	BA	3148	1/1	0.72	0.19	111,111,111,111	0
56	MG	AA	1860	1/1	0.72	0.41	62,62,62,62	0
56	MG	BA	2907	1/1	0.72	0.38	129,129,129,129	0
56	MG	BA	3612	1/1	0.72	0.40	96,96,96,96	0
56	MG	AA	1714	1/1	0.72	0.58	114,114,114,114	0
56	MG	DA	3009	1/1	0.72	0.62	130,130,130,130	0
56	MG	BA	3252	1/1	0.72	0.48	78,78,78,78	0
56	MG	AA	1725	1/1	0.72	0.66	121,121,121,121	0
56	MG	BA	3092	1/1	0.72	0.46	99,99,99,99	0
56	MG	CW	102	1/1	0.73	0.57	105,105,105,105	0
56	MG	BA	2927	1/1	0.73	0.25	82,82,82,82	0
56	MG	DA	3070	1/1	0.73	0.60	69,69,69,69	0
56	MG	BA	2930	1/1	0.73	0.60	89,89,89,89	0
56	MG	BA	3529	1/1	0.73	0.31	79,79,79,79	0
56	MG	CA	1670	1/1	0.73	0.29	61,61,61,61	0
56	MG	DA	3416	1/1	0.73	0.18	60,60,60,60	0
56	MG	DA	2905	1/1	0.73	0.14	87,87,87,87	0
56	MG	AA	1778	1/1	0.73	0.19	159,159,159,159	0
56	MG	CA	1674	1/1	0.73	0.20	107,107,107,107	0
56	MG	AA	1750	1/1	0.73	0.31	77,77,77,77	0
56	MG	DA	3117	1/1	0.73	0.24	72,72,72,72	0
56	MG	BA	3273	1/1	0.73	0.30	110,110,110,110	0
56	MG	BA	3278	1/1	0.73	0.51	115,115,115,115	0
56	MG	DA	3510	1/1	0.73	0.76	69,69,69,69	0
56	MG	AA	1622	1/1	0.73	0.66	70,70,70,70	0
56	MG	BE	301	1/1	0.73	0.56	60,60,60,60	0
56	MG	DA	3522	1/1	0.73	0.19	77,77,77,77	0
56	MG	AA	1811	1/1	0.73	0.38	91,91,91,91	0
56	MG	BA	3300	1/1	0.73	0.39	89,89,89,89	0
56	MG	BA	3629	1/1	0.73	0.88	129,129,129,129	0
56	MG	BA	2925	1/1	0.73	0.59	76,76,76,76	0
56	MG	DA	3287	1/1	0.73	0.84	44,44,44,44	0
56	MG	BA	3574	1/1	0.73	0.40	70,70,70,70	0
56	MG	DA	3325	1/1	0.73	0.48	46,46,46,46	0
56	MG	BA	3309	1/1	0.73	0.35	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3668	1/1	0.73	0.20	71,71,71,71	0
56	MG	AA	1874	1/1	0.73	0.41	59,59,59,59	0
56	MG	CA	1720	1/1	0.73	0.45	84,84,84,84	0
56	MG	BA	3084	1/1	0.73	0.50	73,73,73,73	0
56	MG	BA	3020	1/1	0.73	0.55	107,107,107,107	0
56	MG	BA	2981	1/1	0.73	0.36	79,79,79,79	0
56	MG	BA	3035	1/1	0.73	0.13	158,158,158,158	0
56	MG	BA	3053	1/1	0.73	0.45	95,95,95,95	0
56	MG	D0	101	1/1	0.73	0.33	42,42,42,42	0
56	MG	DA	2936	1/1	0.74	0.50	82,82,82,82	0
56	MG	DA	3329	1/1	0.74	0.34	46,46,46,46	0
56	MG	CA	1667	1/1	0.74	0.28	118,118,118,118	0
56	MG	BA	3389	1/1	0.74	0.31	47,47,47,47	0
56	MG	BA	3054	1/1	0.74	0.30	91,91,91,91	0
56	MG	BA	3229	1/1	0.74	0.53	92,92,92,92	0
56	MG	AA	1975	1/1	0.74	0.26	121,121,121,121	0
56	MG	CA	1717	1/1	0.74	0.25	121,121,121,121	0
56	MG	CW	112	1/1	0.74	0.27	103,103,103,103	0
56	MG	AA	1850	1/1	0.74	0.23	98,98,98,98	0
56	MG	BA	3267	1/1	0.74	0.41	123,123,123,123	0
56	MG	DA	3375	1/1	0.74	0.49	78,78,78,78	0
56	MG	CA	1644	1/1	0.74	1.32	120,120,120,120	0
56	MG	CA	1678	1/1	0.74	1.80	128,128,128,128	0
56	MG	DA	3586	1/1	0.74	0.77	133,133,133,133	0
56	MG	BA	3139	1/1	0.74	0.41	73,73,73,73	0
56	MG	DA	3630	1/1	0.74	0.15	76,76,76,76	0
56	MG	BA	3517	1/1	0.74	0.53	55,55,55,55	0
56	MG	CA	1780	1/1	0.74	0.53	72,72,72,72	0
56	MG	BA	3359	1/1	0.74	0.10	106,106,106,106	0
56	MG	AA	1858	1/1	0.74	0.28	132,132,132,132	0
56	MG	CA	1905	1/1	0.74	0.39	84,84,84,84	0
56	MG	DA	3292	1/1	0.74	0.31	34,34,34,34	0
56	MG	DA	2930	1/1	0.74	0.45	86,86,86,86	0
56	MG	DA	3066	1/1	0.74	1.50	90,90,90,90	0
56	MG	D7	101	1/1	0.74	0.48	62,62,62,62	0
56	MG	CW	101	1/1	0.75	0.35	96,96,96,96	0
56	MG	DA	3441	1/1	0.75	0.38	46,46,46,46	0
56	MG	BA	3256	1/1	0.75	0.57	91,91,91,91	0
56	MG	BA	3455	1/1	0.75	0.26	64,64,64,64	0
56	MG	AW	112	1/1	0.75	0.57	82,82,82,82	0
56	MG	CW	116	1/1	0.75	0.14	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3479	1/1	0.75	0.47	59,59,59,59	0
56	MG	CA	1850	1/1	0.75	0.40	93,93,93,93	0
56	MG	BA	3082	1/1	0.75	0.34	119,119,119,119	0
56	MG	DA	3521	1/1	0.75	0.30	93,93,93,93	0
56	MG	BA	3494	1/1	0.75	0.18	73,73,73,73	0
56	MG	BA	3496	1/1	0.75	0.43	63,63,63,63	0
56	MG	BA	3501	1/1	0.75	0.19	52,52,52,52	0
56	MG	BA	3264	1/1	0.75	0.48	89,89,89,89	0
56	MG	CA	1738	1/1	0.75	0.38	123,123,123,123	0
56	MG	BA	3130	1/1	0.75	0.50	82,82,82,82	0
56	MG	CA	1887	1/1	0.75	0.43	116,116,116,116	0
56	MG	BA	3156	1/1	0.75	0.50	74,74,74,74	0
56	MG	DA	2937	1/1	0.75	0.67	104,104,104,104	0
56	MG	AA	1681	1/1	0.75	0.22	68,68,68,68	0
56	MG	BA	3117	1/1	0.75	0.21	92,92,92,92	0
56	MG	BA	3433	1/1	0.75	0.37	97,97,97,97	0
56	MG	DA	3386	1/1	0.75	0.22	102,102,102,102	0
56	MG	BA	3225	1/1	0.75	0.28	96,96,96,96	0
56	MG	BB	202	1/1	0.75	0.19	98,98,98,98	0
56	MG	DA	3403	1/1	0.75	0.81	77,77,77,77	0
56	MG	BA	3442	1/1	0.75	0.39	79,79,79,79	0
56	MG	DA	2972	1/1	0.75	0.62	187,187,187,187	0
56	MG	DF	301	1/1	0.75	0.45	37,37,37,37	0
56	MG	DA	3427	1/1	0.75	1.15	84,84,84,84	0
56	MG	BA	3557	1/1	0.75	0.15	97,97,97,97	0
56	MG	BA	3299	1/1	0.75	0.65	102,102,102,102	0
56	MG	BA	3297	1/1	0.76	0.63	122,122,122,122	0
56	MG	BA	3298	1/1	0.76	0.38	101,101,101,101	0
56	MG	CA	1918	1/1	0.76	0.15	107,107,107,107	0
56	MG	DA	3453	1/1	0.76	0.19	85,85,85,85	0
56	MG	BA	3137	1/1	0.76	0.28	83,83,83,83	0
56	MG	BA	2929	1/1	0.76	0.53	64,64,64,64	0
56	MG	DA	3491	1/1	0.76	0.35	71,71,71,71	0
56	MG	BA	3196	1/1	0.76	0.09	84,84,84,84	0
56	MG	CA	1747	1/1	0.76	1.26	122,122,122,122	0
56	MG	AA	1722	1/1	0.76	0.24	72,72,72,72	0
56	MG	BA	3016	1/1	0.76	0.28	168,168,168,168	0
56	MG	DA	3033	1/1	0.76	0.41	93,93,93,93	0
56	MG	BA	3257	1/1	0.76	0.51	69,69,69,69	0
56	MG	DA	3342	1/1	0.76	0.09	83,83,83,83	0
56	MG	AA	1835	1/1	0.76	0.99	76,76,76,76	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	2934	1/1	0.76	0.72	79,79,79,79	0
56	MG	BA	3114	1/1	0.76	0.20	119,119,119,119	0
56	MG	BA	3403	1/1	0.76	0.50	79,79,79,79	0
56	MG	CA	1718	1/1	0.76	0.12	136,136,136,136	0
56	MG	BA	3407	1/1	0.76	0.61	78,78,78,78	0
56	MG	DA	3364	1/1	0.76	0.10	80,80,80,80	0
56	MG	CA	1863	1/1	0.76	0.30	69,69,69,69	0
56	MG	DA	2915	1/1	0.76	0.42	78,78,78,78	0
56	MG	BA	3546	1/1	0.76	0.63	200,200,200,200	0
56	MG	CA	1663	1/1	0.76	0.63	210,210,210,210	0
56	MG	DB	201	1/1	0.76	0.34	62,62,62,62	0
56	MG	AA	1748	1/1	0.76	0.24	54,54,54,54	0
56	MG	BA	3550	1/1	0.76	0.12	68,68,68,68	0
56	MG	DB	206	1/1	0.76	0.41	121,121,121,121	0
56	MG	BA	3049	1/1	0.76	0.30	90,90,90,90	0
56	MG	DA	2938	1/1	0.76	0.38	71,71,71,71	0
56	MG	AA	1977	1/1	0.76	0.37	126,126,126,126	0
56	MG	AA	1607	1/1	0.76	0.47	97,97,97,97	0
56	MG	AA	1652	1/1	0.76	0.19	98,98,98,98	0
56	MG	DW	201	1/1	0.76	0.53	76,76,76,76	0
56	MG	CA	1808	1/1	0.76	0.56	74,74,74,74	0
56	MG	BA	3655	1/1	0.76	0.41	87,87,87,87	0
56	MG	DA	3436	1/1	0.77	0.19	68,68,68,68	0
56	MG	BA	3211	1/1	0.77	0.49	71,71,71,71	0
56	MG	AA	1967	1/1	0.77	0.27	61,61,61,61	0
56	MG	BA	3720	1/1	0.77	0.22	85,85,85,85	0
56	MG	BA	3601	1/1	0.77	0.15	50,50,50,50	0
56	MG	DA	3456	1/1	0.77	0.20	116,116,116,116	0
56	MG	BA	2913	1/1	0.77	0.35	77,77,77,77	0
56	MG	CA	1911	1/1	0.77	1.07	107,107,107,107	0
56	MG	BB	203	1/1	0.77	0.37	78,78,78,78	0
56	MG	BA	3303	1/1	0.77	0.27	69,69,69,69	0
56	MG	DA	3501	1/1	0.77	0.09	96,96,96,96	0
56	MG	DA	2989	1/1	0.77	0.47	53,53,53,53	0
56	MG	DA	2999	1/1	0.77	0.19	102,102,102,102	0
56	MG	CA	1810	1/1	0.77	0.71	121,121,121,121	0
56	MG	DA	3003	1/1	0.77	0.43	59,59,59,59	0
56	MG	BA	3306	1/1	0.77	0.39	68,68,68,68	0
56	MG	AA	1891	1/1	0.77	0.19	67,67,67,67	0
56	MG	DA	3528	1/1	0.77	0.33	54,54,54,54	0
56	MG	BB	215	1/1	0.77	0.34	94,94,94,94	0
56	MG	BA	3110	1/1	0.77	0.37	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BB	222	1/1	0.77	0.19	206,206,206,206	0
56	MG	BA	3570	1/1	0.77	0.15	83,83,83,83	0
56	MG	BA	3141	1/1	0.77	0.71	62,62,62,62	0
56	MG	DA	3568	1/1	0.77	0.41	65,65,65,65	0
56	MG	AA	1825	1/1	0.77	0.43	138,138,138,138	0
56	MG	BA	3270	1/1	0.77	0.40	70,70,70,70	0
56	MG	BA	3193	1/1	0.77	0.31	79,79,79,79	0
56	MG	BA	3514	1/1	0.77	1.15	80,80,80,80	0
56	MG	DA	3627	1/1	0.77	0.28	81,81,81,81	0
56	MG	AA	1909	1/1	0.77	0.18	65,65,65,65	0
56	MG	DA	3380	1/1	0.77	0.28	85,85,85,85	0
56	MG	CA	1756	1/1	0.77	0.37	60,60,60,60	0
56	MG	AA	1721	1/1	0.77	0.40	128,128,128,128	0
56	MG	CA	1704	1/1	0.77	0.71	88,88,88,88	0
56	MG	BA	2972	1/1	0.77	0.53	122,122,122,122	0
56	MG	BA	3696	1/1	0.77	0.17	96,96,96,96	0
56	MG	BA	3414	1/1	0.77	0.67	47,47,47,47	0
56	MG	BA	3593	1/1	0.77	0.32	57,57,57,57	0
56	MG	DA	3107	1/1	0.77	0.60	139,139,139,139	0
56	MG	BA	3538	1/1	0.77	0.37	82,82,82,82	0
56	MG	CA	1885	1/1	0.77	0.27	270,270,270,270	0
56	MG	BA	2999	1/1	0.77	0.09	92,92,92,92	0
56	MG	DA	3432	1/1	0.77	0.30	104,104,104,104	0
56	MG	BA	3115	1/1	0.78	0.20	62,62,62,62	0
56	MG	DA	3320	1/1	0.78	0.11	78,78,78,78	0
56	MG	DA	3007	1/1	0.78	0.13	70,70,70,70	0
56	MG	CA	1691	1/1	0.78	0.32	161,161,161,161	0
56	MG	CA	1693	1/1	0.78	0.42	67,67,67,67	0
56	MG	DA	3502	1/1	0.78	1.32	73,73,73,73	0
56	MG	CA	1617	1/1	0.78	0.38	69,69,69,69	0
56	MG	DA	3030	1/1	0.78	1.40	78,78,78,78	0
56	MG	AA	1686	1/1	0.78	0.42	85,85,85,85	0
56	MG	DA	3517	1/1	0.78	0.42	62,62,62,62	0
56	MG	DA	3519	1/1	0.78	1.54	78,78,78,78	0
56	MG	AA	1777	1/1	0.78	0.17	101,101,101,101	0
56	MG	AA	1826	1/1	0.78	0.36	78,78,78,78	0
56	MG	AA	1900	1/1	0.78	0.30	213,213,213,213	0
56	MG	BA	3182	1/1	0.78	0.60	70,70,70,70	0
56	MG	BA	3185	1/1	0.78	0.65	66,66,66,66	0
56	MG	AA	1866	1/1	0.78	0.18	118,118,118,118	0
56	MG	CA	1869	1/1	0.78	0.38	95,95,95,95	0
56	MG	BA	3462	1/1	0.78	0.41	95,95,95,95	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	CA	1793	1/1	0.78	0.26	114,114,114,114	0
56	MG	BA	3610	1/1	0.78	0.40	95,95,95,95	0
56	MG	BA	3248	1/1	0.78	0.49	102,102,102,102	0
56	MG	AA	1757	1/1	0.78	0.32	74,74,74,74	0
56	MG	BA	2983	1/1	0.78	0.17	44,44,44,44	0
56	MG	DA	3611	1/1	0.78	0.88	60,60,60,60	0
56	MG	DA	3395	1/1	0.78	0.13	95,95,95,95	0
56	MG	DA	3095	1/1	0.78	0.13	100,100,100,100	0
56	MG	BA	3140	1/1	0.78	0.34	55,55,55,55	0
56	MG	CA	1900	1/1	0.78	0.49	112,112,112,112	0
56	MG	BA	3650	1/1	0.78	0.48	95,95,95,95	0
56	MG	BA	3067	1/1	0.78	0.17	142,142,142,142	0
56	MG	BA	3661	1/1	0.78	0.69	56,56,56,56	0
56	MG	BA	3143	1/1	0.78	0.43	81,81,81,81	0
56	MG	AW	116	1/1	0.78	0.19	86,86,86,86	0
56	MG	CA	1812	1/1	0.78	0.58	75,75,75,75	0
56	MG	BA	3377	1/1	0.78	0.46	56,56,56,56	0
56	MG	AA	1953	1/1	0.78	0.38	51,51,51,51	0
56	MG	DA	3270	1/1	0.78	0.64	69,69,69,69	0
56	MG	BA	3112	1/1	0.78	0.18	83,83,83,83	0
56	MG	AA	1625	1/1	0.78	0.48	85,85,85,85	0
56	MG	CA	1686	1/1	0.78	0.27	286,286,286,286	0
56	MG	BA	3237	1/1	0.79	0.59	90,90,90,90	0
56	MG	DA	3257	1/1	0.79	0.28	90,90,90,90	0
56	MG	DA	3463	1/1	0.79	0.36	60,60,60,60	0
56	MG	B0	102	1/1	0.79	0.45	68,68,68,68	0
56	MG	DA	2988	1/1	0.79	0.22	85,85,85,85	0
56	MG	CA	1602	1/1	0.79	0.25	112,112,112,112	0
56	MG	CA	1819	1/1	0.79	0.10	59,59,59,59	0
56	MG	DA	3498	1/1	0.79	0.43	80,80,80,80	0
56	MG	BA	3188	1/1	0.79	0.40	78,78,78,78	0
56	MG	BA	3244	1/1	0.79	1.33	67,67,67,67	0
56	MG	CA	1683	1/1	0.79	0.58	62,62,62,62	0
56	MG	BA	2910	1/1	0.79	0.11	79,79,79,79	0
56	MG	DA	3008	1/1	0.79	0.52	70,70,70,70	0
56	MG	AA	1941	1/1	0.79	0.75	100,100,100,100	0
56	MG	CW	110	1/1	0.79	0.11	90,90,90,90	0
56	MG	AA	1815	1/1	0.79	0.35	74,74,74,74	0
56	MG	BA	3507	1/1	0.79	0.27	56,56,56,56	0
56	MG	BA	2992	1/1	0.79	0.51	73,73,73,73	0
56	MG	AA	1823	1/1	0.79	0.29	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	2994	1/1	0.79	0.51	71,71,71,71	0
56	MG	BA	3205	1/1	0.79	0.45	95,95,95,95	0
56	MG	BA	3032	1/1	0.79	0.67	97,97,97,97	0
56	MG	AA	1946	1/1	0.79	0.30	86,86,86,86	0
56	MG	DA	3367	1/1	0.79	0.21	74,74,74,74	0
56	MG	DA	3371	1/1	0.79	0.39	65,65,65,65	0
56	MG	DA	3062	1/1	0.79	0.47	75,75,75,75	0
56	MG	BA	3265	1/1	0.79	0.21	114,114,114,114	0
56	MG	BA	3048	1/1	0.79	0.33	54,54,54,54	0
56	MG	CA	1872	1/1	0.79	0.31	88,88,88,88	0
56	MG	DA	3618	1/1	0.79	0.27	69,69,69,69	0
56	MG	DA	3621	1/1	0.79	0.40	77,77,77,77	0
56	MG	DA	2916	1/1	0.79	0.49	57,57,57,57	0
56	MG	AA	1797	1/1	0.79	0.36	60,60,60,60	0
56	MG	BA	3128	1/1	0.79	0.99	111,111,111,111	0
56	MG	CA	1879	1/1	0.79	0.35	53,53,53,53	0
56	MG	DA	2931	1/1	0.79	0.22	87,87,87,87	0
56	MG	BA	3275	1/1	0.79	0.44	102,102,102,102	0
56	MG	AA	1752	1/1	0.79	0.37	183,183,183,183	0
56	MG	AA	1646	1/1	0.79	0.10	73,73,73,73	0
56	MG	CA	1728	1/1	0.79	0.20	195,195,195,195	0
56	MG	CA	1892	1/1	0.79	0.14	150,150,150,150	0
56	MG	BA	3568	1/1	0.79	0.17	84,84,84,84	0
56	MG	BA	3628	1/1	0.79	0.67	82,82,82,82	0
56	MG	AA	1937	1/1	0.79	0.26	51,51,51,51	0
56	MG	DA	3161	1/1	0.79	0.21	10,10,10,10	0
56	MG	BA	3234	1/1	0.79	0.12	83,83,83,83	0
56	MG	BA	3097	1/1	0.79	0.73	73,73,73,73	0
56	MG	DA	3109	1/1	0.80	0.33	65,65,65,65	0
56	MG	BA	3616	1/1	0.80	0.61	62,62,62,62	0
56	MG	BA	3043	1/1	0.80	0.46	155,155,155,155	0
56	MG	BA	3622	1/1	0.80	0.97	68,68,68,68	0
56	MG	DA	3120	1/1	0.80	0.37	76,76,76,76	0
56	MG	BA	3404	1/1	0.80	1.16	82,82,82,82	0
56	MG	BA	3215	1/1	0.80	0.18	88,88,88,88	0
56	MG	BA	3121	1/1	0.80	0.81	137,137,137,137	0
56	MG	DA	3188	1/1	0.80	0.47	50,50,50,50	0
56	MG	DA	3471	1/1	0.80	0.33	55,55,55,55	0
56	MG	DA	3238	1/1	0.80	0.30	89,89,89,89	0
56	MG	CA	1896	1/1	0.80	0.38	95,95,95,95	0
56	MG	BA	3641	1/1	0.80	0.61	60,60,60,60	0
56	MG	CA	1709	1/1	0.80	0.26	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3422	1/1	0.80	0.55	42,42,42,42	0
56	MG	DA	2980	1/1	0.80	0.38	57,57,57,57	0
56	MG	BA	3563	1/1	0.80	0.69	83,83,83,83	0
56	MG	BA	2940	1/1	0.80	0.15	67,67,67,67	0
56	MG	AA	1912	1/1	0.80	0.23	87,87,87,87	0
56	MG	BA	3180	1/1	0.80	0.72	113,113,113,113	0
56	MG	AA	1635	1/1	0.80	0.36	106,106,106,106	0
56	MG	AA	1929	1/1	0.80	0.36	79,79,79,79	0
56	MG	BA	3287	1/1	0.80	0.29	55,55,55,55	0
56	MG	BA	3095	1/1	0.80	0.41	90,90,90,90	0
56	MG	BA	3292	1/1	0.80	0.64	40,40,40,40	0
56	MG	AA	1644	1/1	0.80	0.23	57,57,57,57	0
56	MG	DA	3010	1/1	0.80	0.79	54,54,54,54	0
56	MG	BA	3008	1/1	0.80	0.47	66,66,66,66	0
56	MG	CW	105	1/1	0.80	0.64	65,65,65,65	0
56	MG	DA	3026	1/1	0.80	0.24	78,78,78,78	0
56	MG	DA	3349	1/1	0.80	0.58	56,56,56,56	0
56	MG	DA	3027	1/1	0.80	0.15	94,94,94,94	0
56	MG	DA	3576	1/1	0.80	0.28	102,102,102,102	0
56	MG	BA	3488	1/1	0.80	0.33	62,62,62,62	0
56	MG	DA	3352	1/1	0.80	0.13	86,86,86,86	0
56	MG	DA	3583	1/1	0.80	0.16	68,68,68,68	0
56	MG	DA	3585	1/1	0.80	0.26	66,66,66,66	0
56	MG	CA	1665	1/1	0.80	0.58	94,94,94,94	0
56	MG	DA	3362	1/1	0.80	0.99	83,83,83,83	0
56	MG	CA	1737	1/1	0.80	0.93	98,98,98,98	0
56	MG	BA	3241	1/1	0.80	0.62	77,77,77,77	0
56	MG	AA	1897	1/1	0.80	1.14	80,80,80,80	0
56	MG	BA	3245	1/1	0.80	0.58	185,185,185,185	0
56	MG	CM	201	1/1	0.80	1.20	84,84,84,84	0
56	MG	BA	2985	1/1	0.80	0.34	61,61,61,61	0
56	MG	BA	2988	1/1	0.80	0.37	77,77,77,77	0
56	MG	AA	1675	1/1	0.80	0.89	96,96,96,96	0
56	MG	BA	2954	1/1	0.80	0.46	77,77,77,77	0
56	MG	BA	3532	1/1	0.80	0.29	58,58,58,58	0
56	MG	AA	1744	1/1	0.80	0.48	103,103,103,103	0
56	MG	BA	3206	1/1	0.80	0.24	176,176,176,176	0
56	MG	DB	214	1/1	0.80	0.13	110,110,110,110	0
56	MG	BA	3259	1/1	0.80	0.27	77,77,77,77	0
56	MG	CA	1871	1/1	0.80	0.13	56,56,56,56	0
56	MG	BA	3157	1/1	0.80	0.72	57,57,57,57	0
56	MG	DA	3426	1/1	0.80	0.50	63,63,63,63	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AV	101	1/1	0.80	0.75	109,109,109,109	0
56	MG	BA	3613	1/1	0.80	0.60	76,76,76,76	0
56	MG	CA	1630	1/1	0.81	0.22	177,177,177,177	0
56	MG	DA	3043	1/1	0.81	1.55	77,77,77,77	0
56	MG	DA	3327	1/1	0.81	0.20	58,58,58,58	0
56	MG	CA	1708	1/1	0.81	0.37	63,63,63,63	0
56	MG	AA	1738	1/1	0.81	0.65	71,71,71,71	0
56	MG	AA	1872	1/1	0.81	0.69	67,67,67,67	0
56	MG	AA	1873	1/1	0.81	0.23	110,110,110,110	0
56	MG	BA	3712	1/1	0.81	0.50	52,52,52,52	0
56	MG	BA	3419	1/1	0.81	0.35	57,57,57,57	0
56	MG	DA	3064	1/1	0.81	0.19	62,62,62,62	0
56	MG	BA	2964	1/1	0.81	0.25	74,74,74,74	0
56	MG	AA	1700	1/1	0.81	0.51	158,158,158,158	0
56	MG	CA	1895	1/1	0.81	0.31	126,126,126,126	0
56	MG	BA	3543	1/1	0.81	0.29	53,53,53,53	0
56	MG	DA	3074	1/1	0.81	1.36	99,99,99,99	0
56	MG	BA	3086	1/1	0.81	0.55	64,64,64,64	0
56	MG	BA	3436	1/1	0.81	0.30	86,86,86,86	0
56	MG	AA	1989	1/1	0.81	0.21	70,70,70,70	0
56	MG	AA	1828	1/1	0.81	0.10	97,97,97,97	0
56	MG	AA	1716	1/1	0.81	0.46	103,103,103,103	0
56	MG	DA	2956	1/1	0.81	0.32	59,59,59,59	0
56	MG	DA	3106	1/1	0.81	0.32	79,79,79,79	0
56	MG	BA	3096	1/1	0.81	0.79	173,173,173,173	0
56	MG	BB	213	1/1	0.81	0.35	93,93,93,93	0
56	MG	BA	3060	1/1	0.81	0.53	80,80,80,80	0
56	MG	DA	2979	1/1	0.81	0.39	81,81,81,81	0
56	MG	BA	3331	1/1	0.81	0.69	121,121,121,121	0
56	MG	DA	3595	1/1	0.81	0.42	106,106,106,106	0
56	MG	AA	1830	1/1	0.81	0.73	179,179,179,179	0
56	MG	BA	3571	1/1	0.81	0.49	68,68,68,68	0
56	MG	BA	3346	1/1	0.81	0.12	111,111,111,111	0
56	MG	AA	1733	1/1	0.81	1.05	94,94,94,94	0
56	MG	DA	3421	1/1	0.81	0.35	76,76,76,76	0
56	MG	BA	3364	1/1	0.81	0.14	82,82,82,82	0
56	MG	AA	1774	1/1	0.81	0.41	68,68,68,68	0
56	MG	AT	202	1/1	0.81	0.40	100,100,100,100	0
56	MG	BA	3585	1/1	0.81	0.48	87,87,87,87	0
56	MG	BA	2991	1/1	0.81	0.36	80,80,80,80	0
56	MG	CA	1610	1/1	0.81	0.27	78,78,78,78	0
56	MG	BA	3391	1/1	0.81	0.64	78,78,78,78	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	CA	1766	1/1	0.81	0.39	49,49,49,49	0
56	MG	DA	3447	1/1	0.81	0.64	89,89,89,89	0
56	MG	BA	3242	1/1	0.81	0.52	63,63,63,63	0
56	MG	DA	3290	1/1	0.81	0.29	38,38,38,38	0
56	MG	CA	1866	1/1	0.81	0.71	85,85,85,85	0
56	MG	BA	3520	1/1	0.81	0.46	51,51,51,51	0
56	MG	DX	101	1/1	0.81	0.41	99,99,99,99	0
56	MG	DA	3317	1/1	0.81	0.17	48,48,48,48	0
56	MG	AA	1971	1/1	0.81	0.18	60,60,60,60	0
56	MG	DA	3266	1/1	0.82	0.55	64,64,64,64	0
56	MG	CA	1689	1/1	0.82	0.21	52,52,52,52	0
56	MG	DA	3459	1/1	0.82	0.26	76,76,76,76	0
56	MG	BA	3087	1/1	0.82	0.49	82,82,82,82	0
56	MG	BA	3258	1/1	0.82	0.56	67,67,67,67	0
56	MG	CA	1696	1/1	0.82	0.30	66,66,66,66	0
56	MG	BA	3151	1/1	0.82	0.30	80,80,80,80	0
56	MG	DA	3307	1/1	0.82	0.18	82,82,82,82	0
56	MG	AA	1931	1/1	0.82	0.24	102,102,102,102	0
56	MG	BA	2923	1/1	0.82	1.32	85,85,85,85	0
56	MG	BA	3068	1/1	0.82	0.44	115,115,115,115	0
56	MG	AA	1973	1/1	0.82	0.64	65,65,65,65	0
56	MG	DA	3035	1/1	0.82	0.36	71,71,71,71	0
56	MG	DA	3038	1/1	0.82	0.37	77,77,77,77	0
56	MG	BA	3523	1/1	0.82	0.59	47,47,47,47	0
56	MG	BA	2960	1/1	0.82	0.50	74,74,74,74	0
56	MG	AA	1679	1/1	0.82	0.13	112,112,112,112	0
56	MG	CA	1649	1/1	0.82	0.15	63,63,63,63	0
56	MG	CA	1650	1/1	0.82	0.18	170,170,170,170	0
56	MG	BA	3135	1/1	0.82	0.45	55,55,55,55	0
56	MG	CA	1795	1/1	0.82	0.62	84,84,84,84	0
56	MG	DA	2926	1/1	0.82	0.54	91,91,91,91	0
56	MG	CA	1662	1/1	0.82	0.55	90,90,90,90	0
56	MG	DA	3535	1/1	0.82	0.31	67,67,67,67	0
56	MG	DA	3539	1/1	0.82	0.31	98,98,98,98	0
56	MG	CA	1798	1/1	0.82	0.32	79,79,79,79	0
56	MG	BA	3587	1/1	0.82	0.93	104,104,104,104	0
56	MG	CA	1722	1/1	0.82	0.72	168,168,168,168	0
56	MG	AA	1751	1/1	0.82	0.58	108,108,108,108	0
56	MG	DA	3571	1/1	0.82	0.94	70,70,70,70	0
56	MG	BA	3276	1/1	0.82	0.56	107,107,107,107	0
56	MG	AA	1616	1/1	0.82	0.46	87,87,87,87	0
56	MG	DA	3578	1/1	0.82	0.55	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3369	1/1	0.82	0.59	86,86,86,86	0
56	MG	BA	3279	1/1	0.82	0.34	80,80,80,80	0
56	MG	DA	3089	1/1	0.82	0.10	70,70,70,70	0
56	MG	BA	3664	1/1	0.82	0.21	82,82,82,82	0
56	MG	DA	3589	1/1	0.82	0.18	74,74,74,74	0
56	MG	DA	2950	1/1	0.82	0.15	61,61,61,61	0
56	MG	DA	3601	1/1	0.82	0.33	61,61,61,61	0
56	MG	BA	3083	1/1	0.82	0.22	69,69,69,69	0
56	MG	CA	1811	1/1	0.82	0.27	54,54,54,54	0
56	MG	DA	2963	1/1	0.82	0.34	62,62,62,62	0
56	MG	BA	3477	1/1	0.82	0.32	54,54,54,54	0
56	MG	DA	3112	1/1	0.82	0.21	141,141,141,141	0
56	MG	AA	1753	1/1	0.82	0.52	72,72,72,72	0
56	MG	BA	3674	1/1	0.82	0.32	55,55,55,55	0
56	MG	AA	1746	1/1	0.82	0.38	93,93,93,93	0
56	MG	AA	1713	1/1	0.82	0.14	84,84,84,84	0
56	MG	DA	3121	1/1	0.82	0.19	41,41,41,41	0
56	MG	DA	3424	1/1	0.82	0.40	52,52,52,52	0
56	MG	CA	1916	1/1	0.82	0.62	77,77,77,77	0
56	MG	BA	3491	1/1	0.82	0.25	85,85,85,85	0
56	MG	DB	213	1/1	0.82	0.21	76,76,76,76	0
56	MG	CA	1823	1/1	0.82	0.30	166,166,166,166	0
56	MG	DA	3178	1/1	0.82	0.31	40,40,40,40	0
56	MG	DA	2991	1/1	0.82	0.68	80,80,80,80	0
56	MG	DQ	201	1/1	0.82	0.22	49,49,49,49	0
56	MG	CA	1921	1/1	0.82	0.26	108,108,108,108	0
56	MG	BA	3701	1/1	0.82	0.34	74,74,74,74	0
56	MG	CA	1831	1/1	0.82	0.48	62,62,62,62	0
56	MG	BA	3560	1/1	0.82	0.37	47,47,47,47	0
56	MG	BA	3561	1/1	0.82	0.33	58,58,58,58	0
56	MG	DA	3454	1/1	0.83	0.34	62,62,62,62	0
56	MG	BA	3304	1/1	0.83	0.45	167,167,167,167	0
56	MG	BX	102	1/1	0.83	0.35	50,50,50,50	0
56	MG	AA	1864	1/1	0.83	0.20	116,116,116,116	0
56	MG	DA	3470	1/1	0.83	0.22	81,81,81,81	0
56	MG	BA	2975	1/1	0.83	0.23	77,77,77,77	0
56	MG	DA	3478	1/1	0.83	0.17	67,67,67,67	0
56	MG	BA	3460	1/1	0.83	0.24	51,51,51,51	0
56	MG	AA	1650	1/1	0.83	0.16	93,93,93,93	0
56	MG	BA	3318	1/1	0.83	0.18	93,93,93,93	0
56	MG	BA	3473	1/1	0.83	0.81	70,70,70,70	0
56	MG	BA	3326	1/1	0.83	0.63	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1992	1/1	0.83	0.27	84,84,84,84	0
56	MG	BA	3480	1/1	0.83	0.29	77,77,77,77	0
56	MG	BA	3222	1/1	0.83	0.46	70,70,70,70	0
56	MG	CA	1622	1/1	0.83	0.40	59,59,59,59	0
56	MG	BA	3487	1/1	0.83	0.40	51,51,51,51	0
56	MG	BA	3223	1/1	0.83	0.24	58,58,58,58	0
56	MG	BA	3581	1/1	0.83	0.45	94,94,94,94	0
56	MG	BA	3176	1/1	0.83	0.29	52,52,52,52	0
56	MG	BA	3179	1/1	0.83	0.88	98,98,98,98	0
56	MG	CW	111	1/1	0.83	0.30	82,82,82,82	0
56	MG	CA	1642	1/1	0.83	0.73	82,82,82,82	0
56	MG	BA	3693	1/1	0.83	0.18	65,65,65,65	0
56	MG	CA	1727	1/1	0.83	0.14	112,112,112,112	0
56	MG	BA	3367	1/1	0.83	0.36	84,84,84,84	0
56	MG	BA	3500	1/1	0.83	0.38	72,72,72,72	0
56	MG	BA	3698	1/1	0.83	0.32	55,55,55,55	0
56	MG	DA	3542	1/1	0.83	0.51	70,70,70,70	0
56	MG	BA	3010	1/1	0.83	0.48	93,93,93,93	0
56	MG	AA	1640	1/1	0.83	0.12	102,102,102,102	0
56	MG	DA	3063	1/1	0.83	0.18	99,99,99,99	0
56	MG	DA	2907	1/1	0.83	0.10	75,75,75,75	0
56	MG	AA	1641	1/1	0.83	0.12	121,121,121,121	0
56	MG	CA	1653	1/1	0.83	0.15	53,53,53,53	0
56	MG	AA	1938	1/1	0.83	0.13	72,72,72,72	0
56	MG	DA	3579	1/1	0.83	0.36	36,36,36,36	0
56	MG	CA	1844	1/1	0.83	0.82	104,104,104,104	0
56	MG	CA	1660	1/1	0.83	0.41	94,94,94,94	0
56	MG	AA	1903	1/1	0.83	0.22	51,51,51,51	0
56	MG	DA	3077	1/1	0.83	0.35	77,77,77,77	0
56	MG	DA	3081	1/1	0.83	0.40	87,87,87,87	0
56	MG	DA	3594	1/1	0.83	0.30	50,50,50,50	0
56	MG	DA	3082	1/1	0.83	0.09	67,67,67,67	0
56	MG	BA	3522	1/1	0.83	1.09	96,96,96,96	0
56	MG	BA	3069	1/1	0.83	0.23	69,69,69,69	0
56	MG	DA	3616	1/1	0.83	0.23	65,65,65,65	0
56	MG	AA	1740	1/1	0.83	0.40	105,105,105,105	0
56	MG	DA	3390	1/1	0.83	0.74	53,53,53,53	0
56	MG	BA	3405	1/1	0.83	0.70	64,64,64,64	0
56	MG	BA	3074	1/1	0.83	0.09	108,108,108,108	0
56	MG	CA	1870	1/1	0.83	0.11	73,73,73,73	0
56	MG	BA	3075	1/1	0.83	0.69	73,73,73,73	0
56	MG	BB	205	1/1	0.83	0.30	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1609	1/1	0.83	0.21	46,46,46,46	0
56	MG	AA	1705	1/1	0.83	0.28	101,101,101,101	0
56	MG	BB	209	1/1	0.83	0.27	91,91,91,91	0
56	MG	BA	3541	1/1	0.83	0.21	44,44,44,44	0
56	MG	BA	3608	1/1	0.83	0.95	54,54,54,54	0
56	MG	AA	1921	1/1	0.83	0.34	68,68,68,68	0
56	MG	DA	3429	1/1	0.83	0.78	59,59,59,59	0
56	MG	AA	1925	1/1	0.83	0.52	63,63,63,63	0
56	MG	CA	1890	1/1	0.83	0.26	59,59,59,59	0
56	MG	CA	1789	1/1	0.83	0.93	184,184,184,184	0
56	MG	DA	3130	1/1	0.83	0.61	69,69,69,69	0
56	MG	CA	1893	1/1	0.83	0.46	125,125,125,125	0
56	MG	DA	3162	1/1	0.83	0.15	23,23,23,23	0
56	MG	BA	3209	1/1	0.83	0.33	96,96,96,96	0
56	MG	AA	1986	1/1	0.83	0.79	69,69,69,69	0
56	MG	AA	1775	1/1	0.84	0.95	66,66,66,66	0
56	MG	BA	3409	1/1	0.84	0.19	115,115,115,115	0
56	MG	CA	1604	1/1	0.84	0.47	99,99,99,99	0
56	MG	BA	3138	1/1	0.84	0.28	82,82,82,82	0
56	MG	BA	3554	1/1	0.84	0.39	62,62,62,62	0
56	MG	DA	2934	1/1	0.84	0.29	76,76,76,76	0
56	MG	DA	3067	1/1	0.84	0.58	83,83,83,83	0
56	MG	DA	3068	1/1	0.84	0.28	69,69,69,69	0
56	MG	BA	3050	1/1	0.84	0.34	60,60,60,60	0
56	MG	CA	1897	1/1	0.84	0.24	227,227,227,227	0
56	MG	BA	3208	1/1	0.84	0.40	87,87,87,87	0
56	MG	BA	3071	1/1	0.84	0.24	52,52,52,52	0
56	MG	CA	1901	1/1	0.84	0.24	54,54,54,54	0
56	MG	BA	3702	1/1	0.84	0.20	61,61,61,61	0
56	MG	BA	3503	1/1	0.84	0.69	195,195,195,195	0
56	MG	BA	2987	1/1	0.84	0.40	79,79,79,79	0
56	MG	DA	3083	1/1	0.84	0.76	125,125,125,125	0
56	MG	AA	1966	1/1	0.84	0.29	51,51,51,51	0
56	MG	CA	1908	1/1	0.84	0.27	84,84,84,84	0
56	MG	CA	1690	1/1	0.84	0.16	69,69,69,69	0
56	MG	DA	3090	1/1	0.84	0.25	47,47,47,47	0
56	MG	AA	1787	1/1	0.84	0.31	79,79,79,79	0
56	MG	DA	3560	1/1	0.84	0.42	55,55,55,55	0
56	MG	DA	3564	1/1	0.84	0.54	25,25,25,25	0
56	MG	DA	2967	1/1	0.84	0.90	86,86,86,86	0
56	MG	DA	3376	1/1	0.84	0.42	43,43,43,43	0
56	MG	DA	3574	1/1	0.84	0.44	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3715	1/1	0.84	0.44	75,75,75,75	0
56	MG	DA	3098	1/1	0.84	0.28	57,57,57,57	0
56	MG	BA	3077	1/1	0.84	0.23	50,50,50,50	0
56	MG	DA	2976	1/1	0.84	0.39	71,71,71,71	0
56	MG	BA	3122	1/1	0.84	0.14	89,89,89,89	0
56	MG	BA	3451	1/1	0.84	0.60	83,83,83,83	0
56	MG	CA	1761	1/1	0.84	0.48	49,49,49,49	0
56	MG	BA	3524	1/1	0.84	0.26	95,95,95,95	0
56	MG	DA	3402	1/1	0.84	0.65	28,28,28,28	0
56	MG	DA	3591	1/1	0.84	0.15	129,129,129,129	0
56	MG	CV	102	1/1	0.84	0.70	78,78,78,78	0
56	MG	AA	1993	1/1	0.84	0.36	73,73,73,73	0
56	MG	DA	2993	1/1	0.84	0.41	85,85,85,85	0
56	MG	DA	3609	1/1	0.84	0.24	27,27,27,27	0
56	MG	DA	2997	1/1	0.84	0.89	132,132,132,132	0
56	MG	CA	1776	1/1	0.84	0.68	125,125,125,125	0
56	MG	CW	104	1/1	0.84	0.28	87,87,87,87	0
56	MG	DA	3158	1/1	0.84	0.46	18,18,18,18	0
56	MG	CA	1851	1/1	0.84	0.36	94,94,94,94	0
56	MG	BA	3582	1/1	0.84	0.57	72,72,72,72	0
56	MG	BA	3638	1/1	0.84	0.31	73,73,73,73	0
56	MG	BA	2921	1/1	0.84	0.66	95,95,95,95	0
56	MG	BA	3191	1/1	0.84	0.32	64,64,64,64	0
56	MG	CW	115	1/1	0.84	0.30	81,81,81,81	0
56	MG	CA	1865	1/1	0.84	0.48	108,108,108,108	0
56	MG	BA	3390	1/1	0.84	0.41	44,44,44,44	0
56	MG	CA	1714	1/1	0.84	0.18	104,104,104,104	0
56	MG	BA	3653	1/1	0.84	0.16	62,62,62,62	0
56	MG	BA	3654	1/1	0.84	0.24	86,86,86,86	0
56	MG	DA	3455	1/1	0.84	0.20	72,72,72,72	0
56	MG	BA	3537	1/1	0.84	0.32	60,60,60,60	0
56	MG	BA	3039	1/1	0.84	0.78	176,176,176,176	0
56	MG	AA	1680	1/1	0.84	0.17	87,87,87,87	0
56	MG	BA	3397	1/1	0.84	0.89	67,67,67,67	0
56	MG	DA	3297	1/1	0.84	0.42	64,64,64,64	0
56	MG	BA	3162	1/1	0.84	0.51	60,60,60,60	0
56	MG	AA	1676	1/1	0.84	0.32	152,152,152,152	0
56	MG	D1	101	1/1	0.84	0.17	66,66,66,66	0
56	MG	BA	3199	1/1	0.84	0.29	69,69,69,69	0
56	MG	BA	3468	1/1	0.85	0.26	67,67,67,67	0
56	MG	DA	3494	1/1	0.85	0.28	112,112,112,112	0
56	MG	CA	1857	1/1	0.85	0.59	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3472	1/1	0.85	0.48	56,56,56,56	0
56	MG	DA	3499	1/1	0.85	0.17	98,98,98,98	0
56	MG	DA	3057	1/1	0.85	0.11	107,107,107,107	0
56	MG	CA	1861	1/1	0.85	0.50	79,79,79,79	0
56	MG	BA	3623	1/1	0.85	0.28	79,79,79,79	0
56	MG	DA	3336	1/1	0.85	0.18	51,51,51,51	0
56	MG	BA	3204	1/1	0.85	0.33	65,65,65,65	0
56	MG	CA	1755	1/1	0.85	0.91	120,120,120,120	0
56	MG	BA	3343	1/1	0.85	0.24	73,73,73,73	0
56	MG	BA	2971	1/1	0.85	1.04	89,89,89,89	0
56	MG	AA	1817	1/1	0.85	0.55	175,175,175,175	0
56	MG	BA	3154	1/1	0.85	0.84	169,169,169,169	0
56	MG	CA	1688	1/1	0.85	0.26	45,45,45,45	0
56	MG	DA	3530	1/1	0.85	0.29	70,70,70,70	0
56	MG	BA	3567	1/1	0.85	0.40	75,75,75,75	0
56	MG	BA	3485	1/1	0.85	0.49	53,53,53,53	0
56	MG	CA	1782	1/1	0.85	0.54	56,56,56,56	0
56	MG	BA	3486	1/1	0.85	0.27	47,47,47,47	0
56	MG	DA	3356	1/1	0.85	0.13	107,107,107,107	0
56	MG	CA	1788	1/1	0.85	0.19	66,66,66,66	0
56	MG	AA	1819	1/1	0.85	0.96	84,84,84,84	0
56	MG	BA	2904	1/1	0.85	0.22	48,48,48,48	0
56	MG	AA	1822	1/1	0.85	0.17	69,69,69,69	0
56	MG	BA	3492	1/1	0.85	0.60	102,102,102,102	0
56	MG	AW	105	1/1	0.85	0.07	55,55,55,55	0
56	MG	BA	3167	1/1	0.85	0.38	60,60,60,60	0
56	MG	AA	1882	1/1	0.85	0.48	32,32,32,32	0
56	MG	BA	3031	1/1	0.85	0.50	255,255,255,255	0
56	MG	AA	1848	1/1	0.85	0.26	125,125,125,125	0
56	MG	AA	1678	1/1	0.85	0.16	101,101,101,101	0
56	MG	CA	1711	1/1	0.85	0.66	88,88,88,88	0
56	MG	BA	3508	1/1	0.85	0.30	67,67,67,67	0
56	MG	AA	1939	1/1	0.85	0.11	61,61,61,61	0
56	MG	BA	3124	1/1	0.85	0.54	79,79,79,79	0
56	MG	BA	3519	1/1	0.85	0.64	93,93,93,93	0
56	MG	CA	1909	1/1	0.85	0.16	133,133,133,133	0
56	MG	AA	1668	1/1	0.85	0.35	90,90,90,90	0
56	MG	AA	1724	1/1	0.85	0.46	133,133,133,133	0
56	MG	AA	1729	1/1	0.85	0.49	99,99,99,99	0
56	MG	BA	3132	1/1	0.85	0.40	53,53,53,53	0
56	MG	DA	3604	1/1	0.85	0.42	58,58,58,58	0
56	MG	AA	1745	1/1	0.85	0.21	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3425	1/1	0.85	0.55	52,52,52,52	0
56	MG	DA	2995	1/1	0.85	0.18	65,65,65,65	0
56	MG	BA	3240	1/1	0.85	0.22	75,75,75,75	0
56	MG	AA	1809	1/1	0.85	0.18	106,106,106,106	0
56	MG	CA	1922	1/1	0.85	0.32	67,67,67,67	0
56	MG	CA	1730	1/1	0.85	0.16	80,80,80,80	0
56	MG	DA	3629	1/1	0.85	0.23	67,67,67,67	0
56	MG	CA	1657	1/1	0.85	0.24	95,95,95,95	0
56	MG	DA	3434	1/1	0.85	0.45	61,61,61,61	0
56	MG	BA	3190	1/1	0.85	0.27	49,49,49,49	0
56	MG	CA	1659	1/1	0.85	0.38	57,57,57,57	0
56	MG	AA	1604	1/1	0.85	0.21	91,91,91,91	0
56	MG	AA	1867	1/1	0.85	1.19	96,96,96,96	0
56	MG	DA	3014	1/1	0.85	0.19	54,54,54,54	0
56	MG	CW	107	1/1	0.85	0.10	50,50,50,50	0
56	MG	DB	210	1/1	0.85	0.25	82,82,82,82	0
56	MG	DA	3261	1/1	0.85	0.26	32,32,32,32	0
56	MG	BA	3059	1/1	0.85	0.36	43,43,43,43	0
56	MG	AA	1758	1/1	0.85	0.17	48,48,48,48	0
56	MG	DD	301	1/1	0.85	0.19	62,62,62,62	0
56	MG	BA	3310	1/1	0.85	0.50	117,117,117,117	0
56	MG	DF	302	1/1	0.85	0.25	25,25,25,25	0
56	MG	DA	3029	1/1	0.85	0.29	73,73,73,73	0
56	MG	DQ	202	1/1	0.85	0.28	31,31,31,31	0
56	MG	BA	3611	1/1	0.85	0.23	67,67,67,67	0
56	MG	BA	2965	1/1	0.85	0.47	167,167,167,167	0
56	MG	BA	2966	1/1	0.85	0.36	49,49,49,49	0
56	MG	BA	2967	1/1	0.85	0.59	77,77,77,77	0
56	MG	DA	3486	1/1	0.85	0.37	62,62,62,62	0
56	MG	BA	3617	1/1	0.85	0.16	88,88,88,88	0
56	MG	AA	1763	1/1	0.86	0.27	88,88,88,88	0
56	MG	DA	2996	1/1	0.86	0.22	65,65,65,65	0
56	MG	BA	3070	1/1	0.86	0.55	159,159,159,159	0
56	MG	CA	1919	1/1	0.86	0.24	39,39,39,39	0
56	MG	BA	3708	1/1	0.86	0.19	61,61,61,61	0
56	MG	DA	3196	1/1	0.86	0.35	30,30,30,30	0
56	MG	DA	3002	1/1	0.86	0.33	139,139,139,139	0
56	MG	BA	2952	1/1	0.86	0.08	55,55,55,55	0
56	MG	BA	3024	1/1	0.86	0.31	65,65,65,65	0
56	MG	CA	1729	1/1	0.86	0.21	139,139,139,139	0
56	MG	DA	3250	1/1	0.86	0.61	77,77,77,77	0
56	MG	BA	3604	1/1	0.86	0.37	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3260	1/1	0.86	0.27	58,58,58,58	0
56	MG	AA	1732	1/1	0.86	0.23	60,60,60,60	0
56	MG	BA	2957	1/1	0.86	0.46	71,71,71,71	0
56	MG	DA	3013	1/1	0.86	0.39	55,55,55,55	0
56	MG	DA	3271	1/1	0.86	0.27	65,65,65,65	0
56	MG	CA	1835	1/1	0.86	0.57	61,61,61,61	0
56	MG	BA	3166	1/1	0.86	0.29	70,70,70,70	0
56	MG	DA	3504	1/1	0.86	0.34	68,68,68,68	0
56	MG	DA	3289	1/1	0.86	0.26	45,45,45,45	0
56	MG	DA	3017	1/1	0.86	0.17	60,60,60,60	0
56	MG	AA	1913	1/1	0.86	0.39	35,35,35,35	0
56	MG	DA	3294	1/1	0.86	0.53	64,64,64,64	0
56	MG	CA	1839	1/1	0.86	0.13	38,38,38,38	0
56	MG	DA	3300	1/1	0.86	0.27	69,69,69,69	0
56	MG	BA	3478	1/1	0.86	0.12	63,63,63,63	0
56	MG	DA	3028	1/1	0.86	0.35	55,55,55,55	0
56	MG	CA	1841	1/1	0.86	0.77	77,77,77,77	0
56	MG	BA	3721	1/1	0.86	0.19	86,86,86,86	0
56	MG	BA	3361	1/1	0.86	0.19	106,106,106,106	0
56	MG	BA	3723	1/1	0.86	0.20	71,71,71,71	0
56	MG	AA	1643	1/1	0.86	0.25	114,114,114,114	0
56	MG	BA	3040	1/1	0.86	0.27	85,85,85,85	0
56	MG	BA	3614	1/1	0.86	0.16	107,107,107,107	0
56	MG	DA	3046	1/1	0.86	0.35	48,48,48,48	0
56	MG	DA	3047	1/1	0.86	0.71	69,69,69,69	0
56	MG	DA	3049	1/1	0.86	0.61	52,52,52,52	0
56	MG	DA	3559	1/1	0.86	0.61	51,51,51,51	0
56	MG	CR	101	1/1	0.86	1.59	182,182,182,182	0
56	MG	BA	3559	1/1	0.86	0.31	76,76,76,76	0
56	MG	DA	3055	1/1	0.86	0.12	75,75,75,75	0
56	MG	AA	1734	1/1	0.86	0.24	66,66,66,66	0
56	MG	DA	3058	1/1	0.86	0.10	72,72,72,72	0
56	MG	BA	3370	1/1	0.86	0.36	50,50,50,50	0
56	MG	BA	2962	1/1	0.86	0.70	78,78,78,78	0
56	MG	BA	2995	1/1	0.86	0.22	92,92,92,92	0
56	MG	BB	214	1/1	0.86	0.20	68,68,68,68	0
56	MG	CA	1754	1/1	0.86	1.40	162,162,162,162	0
56	MG	AA	1923	1/1	0.86	0.11	72,72,72,72	0
56	MG	DA	3365	1/1	0.86	0.37	55,55,55,55	0
56	MG	BA	3227	1/1	0.86	0.22	90,90,90,90	0
56	MG	AA	1684	1/1	0.86	0.86	62,62,62,62	0
56	MG	AA	1881	1/1	0.86	0.46	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3592	1/1	0.86	0.19	73,73,73,73	0
56	MG	BA	3640	1/1	0.86	0.51	60,60,60,60	0
56	MG	BF	1901	1/1	0.86	0.28	74,74,74,74	0
56	MG	AA	1658	1/1	0.86	0.16	76,76,76,76	0
56	MG	BA	3088	1/1	0.86	0.18	167,167,167,167	0
56	MG	BA	3089	1/1	0.86	0.58	72,72,72,72	0
56	MG	DA	3610	1/1	0.86	0.52	56,56,56,56	0
56	MG	AA	1606	1/1	0.86	0.13	77,77,77,77	0
56	MG	DA	3612	1/1	0.86	0.18	52,52,52,52	0
56	MG	CA	1886	1/1	0.86	0.18	100,100,100,100	0
56	MG	AA	1651	1/1	0.86	0.30	84,84,84,84	0
56	MG	DA	3392	1/1	0.86	0.13	38,38,38,38	0
56	MG	AA	1827	1/1	0.86	0.41	98,98,98,98	0
56	MG	CA	1695	1/1	0.86	0.41	108,108,108,108	0
56	MG	DA	3400	1/1	0.86	0.35	88,88,88,88	0
56	MG	AA	1637	1/1	0.86	0.12	67,67,67,67	0
56	MG	DA	2951	1/1	0.86	0.20	78,78,78,78	0
56	MG	DA	3091	1/1	0.86	0.57	96,96,96,96	0
56	MG	DA	2952	1/1	0.86	0.69	68,68,68,68	0
56	MG	DA	3407	1/1	0.86	0.11	62,62,62,62	0
56	MG	DA	3411	1/1	0.86	0.56	59,59,59,59	0
56	MG	BA	3302	1/1	0.86	0.69	63,63,63,63	0
56	MG	BA	3423	1/1	0.86	0.28	38,38,38,38	0
56	MG	DA	3423	1/1	0.86	0.20	35,35,35,35	0
56	MG	DB	212	1/1	0.86	0.09	84,84,84,84	0
56	MG	CA	1611	1/1	0.86	0.32	71,71,71,71	0
56	MG	AA	1898	1/1	0.86	0.23	70,70,70,70	0
56	MG	AA	1759	1/1	0.86	0.88	88,88,88,88	0
56	MG	BA	3590	1/1	0.86	0.26	90,90,90,90	0
56	MG	CA	1618	1/1	0.86	0.48	49,49,49,49	0
56	MG	CA	1619	1/1	0.86	0.11	128,128,128,128	0
56	MG	BA	3305	1/1	0.86	0.16	62,62,62,62	0
56	MG	BA	3149	1/1	0.86	0.17	44,44,44,44	0
56	MG	AA	1762	1/1	0.86	0.25	95,95,95,95	0
56	MG	BA	3308	1/1	0.86	0.16	88,88,88,88	0
56	MG	BA	3152	1/1	0.86	0.13	72,72,72,72	0
56	MG	CA	1637	1/1	0.86	0.29	53,53,53,53	0
56	MG	BA	3700	1/1	0.86	0.37	60,60,60,60	0
56	MG	DA	3145	1/1	0.86	0.26	39,39,39,39	0
56	MG	BA	3322	1/1	0.87	0.28	46,46,46,46	0
56	MG	BA	3662	1/1	0.87	0.42	87,87,87,87	0
56	MG	BA	3221	1/1	0.87	0.22	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3079	1/1	0.87	0.38	62,62,62,62	0
56	MG	DA	3080	1/1	0.87	0.38	84,84,84,84	0
56	MG	BA	3181	1/1	0.87	0.51	56,56,56,56	0
56	MG	CA	1917	1/1	0.87	0.33	123,123,123,123	0
56	MG	CA	1672	1/1	0.87	0.25	78,78,78,78	0
56	MG	B0	101	1/1	0.87	0.27	33,33,33,33	0
56	MG	DA	2986	1/1	0.87	0.36	110,110,110,110	0
56	MG	BA	3146	1/1	0.87	0.28	57,57,57,57	0
56	MG	BA	3666	1/1	0.87	0.28	67,67,67,67	0
56	MG	BA	2903	1/1	0.87	0.41	83,83,83,83	0
56	MG	AA	1894	1/1	0.87	0.27	124,124,124,124	0
56	MG	DA	3094	1/1	0.87	0.26	30,30,30,30	0
56	MG	AA	1666	1/1	0.87	0.43	91,91,91,91	0
56	MG	BA	3013	1/1	0.87	0.81	81,81,81,81	0
56	MG	DA	3368	1/1	0.87	0.14	83,83,83,83	0
56	MG	AA	1667	1/1	0.87	0.30	53,53,53,53	0
56	MG	DA	3104	1/1	0.87	0.33	70,70,70,70	0
56	MG	CA	1684	1/1	0.87	0.48	87,87,87,87	0
56	MG	CA	1847	1/1	0.87	0.28	84,84,84,84	0
56	MG	CA	1849	1/1	0.87	0.23	75,75,75,75	0
56	MG	BA	3469	1/1	0.87	0.16	82,82,82,82	0
56	MG	BA	3366	1/1	0.87	0.45	31,31,31,31	0
56	MG	DA	3569	1/1	0.87	0.34	52,52,52,52	0
56	MG	DA	3384	1/1	0.87	0.31	62,62,62,62	0
56	MG	BA	3017	1/1	0.87	0.36	27,27,27,27	0
56	MG	BA	3281	1/1	0.87	0.23	73,73,73,73	0
56	MG	CA	1615	1/1	0.87	0.50	110,110,110,110	0
56	MG	BA	3192	1/1	0.87	0.26	90,90,90,90	0
56	MG	CA	1770	1/1	0.87	0.31	39,39,39,39	0
56	MG	AA	1634	1/1	0.87	0.28	78,78,78,78	0
56	MG	BA	3380	1/1	0.87	0.69	49,49,49,49	0
56	MG	CA	1621	1/1	0.87	0.36	48,48,48,48	0
56	MG	CA	1779	1/1	0.87	0.36	72,72,72,72	0
56	MG	DA	3160	1/1	0.87	0.57	45,45,45,45	0
56	MG	BA	3387	1/1	0.87	0.18	49,49,49,49	0
56	MG	BA	2936	1/1	0.87	0.10	65,65,65,65	0
56	MG	DA	2909	1/1	0.87	0.60	85,85,85,85	0
56	MG	CA	1700	1/1	0.87	0.81	180,180,180,180	0
56	MG	DA	3189	1/1	0.87	0.52	27,27,27,27	0
56	MG	BA	3291	1/1	0.87	0.48	94,94,94,94	0
56	MG	DA	3216	1/1	0.87	0.30	23,23,23,23	0
56	MG	AA	1638	1/1	0.87	0.81	132,132,132,132	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	CA	1705	1/1	0.87	0.24	94,94,94,94	0
56	MG	DA	3037	1/1	0.87	0.42	77,77,77,77	0
56	MG	CA	1881	1/1	0.87	0.19	111,111,111,111	0
56	MG	DA	3042	1/1	0.87	0.62	50,50,50,50	0
56	MG	AA	1988	1/1	0.87	0.40	53,53,53,53	0
56	MG	CA	1636	1/1	0.87	0.97	56,56,56,56	0
56	MG	DA	3045	1/1	0.87	0.40	62,62,62,62	0
56	MG	AA	1801	1/1	0.87	0.16	88,88,88,88	0
56	MG	BA	3564	1/1	0.87	0.42	28,28,28,28	0
56	MG	BA	3200	1/1	0.87	0.95	63,63,63,63	0
56	MG	BA	3163	1/1	0.87	0.53	93,93,93,93	0
56	MG	BA	3164	1/1	0.87	0.29	62,62,62,62	0
56	MG	DA	3288	1/1	0.87	0.37	57,57,57,57	0
56	MG	BA	3497	1/1	0.87	0.17	78,78,78,78	0
56	MG	DB	207	1/1	0.87	0.14	87,87,87,87	0
56	MG	BA	3626	1/1	0.87	0.57	62,62,62,62	0
56	MG	AA	1935	1/1	0.87	0.18	39,39,39,39	0
56	MG	AA	1956	1/1	0.87	0.32	110,110,110,110	0
56	MG	DA	2945	1/1	0.87	0.50	88,88,88,88	0
56	MG	AA	1698	1/1	0.87	0.70	97,97,97,97	0
56	MG	DA	3304	1/1	0.87	0.15	41,41,41,41	0
56	MG	DA	3472	1/1	0.87	0.24	52,52,52,52	0
56	MG	BA	3415	1/1	0.87	0.24	47,47,47,47	0
56	MG	DA	3482	1/1	0.87	0.54	50,50,50,50	0
56	MG	AA	1868	1/1	0.87	0.24	49,49,49,49	0
56	MG	DH	201	1/1	0.87	0.26	64,64,64,64	0
56	MG	DA	3309	1/1	0.87	0.27	81,81,81,81	0
56	MG	AA	1914	1/1	0.87	0.14	53,53,53,53	0
56	MG	BA	3644	1/1	0.87	0.32	106,106,106,106	0
56	MG	AA	1806	1/1	0.87	0.47	111,111,111,111	0
56	MG	BA	3107	1/1	0.87	0.56	87,87,87,87	0
56	MG	AA	1920	1/1	0.87	0.11	71,71,71,71	0
56	MG	BA	3079	1/1	0.87	0.41	48,48,48,48	0
56	MG	DA	3500	1/1	0.87	0.76	72,72,72,72	0
56	MG	BA	3217	1/1	0.88	0.20	65,65,65,65	0
56	MG	CA	1867	1/1	0.88	0.23	82,82,82,82	0
56	MG	CA	1868	1/1	0.88	0.25	69,69,69,69	0
56	MG	DA	3473	1/1	0.88	0.17	51,51,51,51	0
56	MG	DA	3474	1/1	0.88	0.26	55,55,55,55	0
56	MG	CA	1767	1/1	0.88	0.49	50,50,50,50	0
56	MG	DA	3481	1/1	0.88	0.17	73,73,73,73	0
56	MG	CA	1768	1/1	0.88	0.24	55,55,55,55	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1617	1/1	0.88	0.24	108,108,108,108	0
56	MG	DA	3296	1/1	0.88	0.14	69,69,69,69	0
56	MG	BA	3682	1/1	0.88	0.27	64,64,64,64	0
56	MG	DA	3490	1/1	0.88	0.26	96,96,96,96	0
56	MG	BA	3685	1/1	0.88	1.06	79,79,79,79	0
56	MG	DA	3302	1/1	0.88	0.40	83,83,83,83	0
56	MG	DA	3496	1/1	0.88	0.33	40,40,40,40	0
56	MG	CA	1876	1/1	0.88	0.31	127,127,127,127	0
56	MG	BA	3598	1/1	0.88	0.29	62,62,62,62	0
56	MG	BA	3178	1/1	0.88	0.42	52,52,52,52	0
56	MG	CA	1616	1/1	0.88	0.41	61,61,61,61	0
56	MG	BA	3358	1/1	0.88	0.50	150,150,150,150	0
56	MG	DA	3318	1/1	0.88	0.46	42,42,42,42	0
56	MG	DA	3319	1/1	0.88	0.17	34,34,34,34	0
56	MG	DA	3508	1/1	0.88	0.36	37,37,37,37	0
56	MG	AA	1852	1/1	0.88	0.13	89,89,89,89	0
56	MG	DA	3321	1/1	0.88	0.36	66,66,66,66	0
56	MG	DA	3322	1/1	0.88	0.21	46,46,46,46	0
56	MG	BA	3539	1/1	0.88	0.53	71,71,71,71	0
56	MG	CA	1620	1/1	0.88	0.23	74,74,74,74	0
56	MG	BA	3603	1/1	0.88	0.12	88,88,88,88	0
56	MG	AA	1779	1/1	0.88	0.52	74,74,74,74	0
56	MG	DA	3523	1/1	0.88	0.96	76,76,76,76	0
56	MG	DA	3331	1/1	0.88	0.24	93,93,93,93	0
56	MG	DA	3335	1/1	0.88	0.29	38,38,38,38	0
56	MG	CA	1702	1/1	0.88	0.43	75,75,75,75	0
56	MG	BA	2968	1/1	0.88	0.22	46,46,46,46	0
56	MG	AA	1739	1/1	0.88	0.10	88,88,88,88	0
56	MG	DA	3076	1/1	0.88	0.26	88,88,88,88	0
56	MG	DA	2955	1/1	0.88	0.26	30,30,30,30	0
56	MG	AA	1624	1/1	0.88	0.42	45,45,45,45	0
56	MG	AA	1808	1/1	0.88	0.20	70,70,70,70	0
56	MG	CA	1634	1/1	0.88	0.26	74,74,74,74	0
56	MG	DA	2966	1/1	0.88	0.31	42,42,42,42	0
56	MG	BA	3282	1/1	0.88	0.52	78,78,78,78	0
56	MG	DA	2970	1/1	0.88	0.66	69,69,69,69	0
56	MG	BA	3371	1/1	0.88	0.74	55,55,55,55	0
56	MG	BA	2908	1/1	0.88	0.37	235,235,235,235	0
56	MG	AA	1613	1/1	0.88	0.11	83,83,83,83	0
56	MG	AA	1620	1/1	0.88	0.31	76,76,76,76	0
56	MG	BA	3150	1/1	0.88	0.32	79,79,79,79	0
56	MG	AA	1970	1/1	0.88	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
56	MG	AA	1690	1/1	0.88	0.57	174,174,174,174	0
56	MG	AA	1695	1/1	0.88	0.11	71,71,71,71	0
56	MG	CA	1813	1/1	0.88	0.38	99,99,99,99	0
56	MG	CA	1815	1/1	0.88	0.18	80,80,80,80	0
56	MG	CA	1648	1/1	0.88	0.47	155,155,155,155	0
56	MG	BA	2986	1/1	0.88	0.40	45,45,45,45	0
56	MG	DA	3379	1/1	0.88	0.26	54,54,54,54	0
56	MG	BA	3076	1/1	0.88	0.10	48,48,48,48	0
56	MG	DA	3590	1/1	0.88	0.45	74,74,74,74	0
56	MG	BA	2919	1/1	0.88	0.09	127,127,127,127	0
56	MG	DA	3116	1/1	0.88	0.17	124,124,124,124	0
56	MG	CA	1655	1/1	0.88	0.23	65,65,65,65	0
56	MG	BA	3246	1/1	0.88	0.42	47,47,47,47	0
56	MG	CA	1825	1/1	0.88	0.21	80,80,80,80	0
56	MG	BA	3406	1/1	0.88	0.44	28,28,28,28	0
56	MG	DA	3393	1/1	0.88	0.74	95,95,95,95	0
56	MG	AA	1907	1/1	0.88	0.49	45,45,45,45	0
56	MG	AA	1908	1/1	0.88	0.47	56,56,56,56	0
56	MG	AA	1836	1/1	0.88	0.39	139,139,139,139	0
56	MG	AA	1792	1/1	0.88	0.32	84,84,84,84	0
56	MG	DA	3139	1/1	0.88	0.20	33,33,33,33	0
56	MG	CA	1664	1/1	0.88	0.25	78,78,78,78	0
56	MG	BA	3165	1/1	0.88	0.26	59,59,59,59	0
56	MG	BA	3651	1/1	0.88	0.30	92,92,92,92	0
56	MG	DA	3015	1/1	0.88	0.53	91,91,91,91	0
56	MG	CA	1668	1/1	0.88	0.37	118,118,118,118	0
56	MG	BA	2924	1/1	0.88	1.07	64,64,64,64	0
56	MG	DA	3019	1/1	0.88	0.29	67,67,67,67	0
56	MG	DB	202	1/1	0.88	0.12	51,51,51,51	0
56	MG	BA	3511	1/1	0.88	0.34	91,91,91,91	0
56	MG	AA	1760	1/1	0.88	0.16	172,172,172,172	0
56	MG	DA	3201	1/1	0.88	0.34	25,25,25,25	0
56	MG	BA	3431	1/1	0.88	0.28	67,67,67,67	0
56	MG	DA	3223	1/1	0.88	0.18	75,75,75,75	0
56	MG	BA	3432	1/1	0.88	0.43	69,69,69,69	0
56	MG	AA	1614	1/1	0.88	0.33	51,51,51,51	0
56	MG	B8	101	1/1	0.88	0.28	38,38,38,38	0
56	MG	DA	3032	1/1	0.88	0.18	82,82,82,82	0
56	MG	BA	3052	1/1	0.88	0.41	118,118,118,118	0
56	MG	AA	1916	1/1	0.88	0.48	49,49,49,49	0
56	MG	DB	219	1/1	0.88	0.80	66,66,66,66	0
56	MG	CA	1680	1/1	0.88	0.88	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	2928	1/1	0.88	0.24	80,80,80,80	0
56	MG	DA	3262	1/1	0.88	0.42	65,65,65,65	0
56	MG	BA	3444	1/1	0.88	0.52	65,65,65,65	0
56	MG	BA	3531	1/1	0.88	0.30	71,71,71,71	0
56	MG	CA	1764	1/1	0.88	0.38	50,50,50,50	0
56	MG	DQ	204	1/1	0.88	0.40	41,41,41,41	0
56	MG	DA	3275	1/1	0.88	0.83	52,52,52,52	0
56	MG	DA	2912	1/1	0.88	0.30	78,78,78,78	0
56	MG	DA	3460	1/1	0.88	0.16	67,67,67,67	0
56	MG	DA	3461	1/1	0.88	0.13	73,73,73,73	0
56	MG	DA	3285	1/1	0.88	0.21	63,63,63,63	0
56	MG	DA	3467	1/1	0.88	0.22	60,60,60,60	0
56	MG	AA	1837	1/1	0.89	0.17	64,64,64,64	0
56	MG	CA	1742	1/1	0.89	0.56	61,61,61,61	0
56	MG	BA	3620	1/1	0.89	0.23	73,73,73,73	0
56	MG	DA	3039	1/1	0.89	0.81	72,72,72,72	0
56	MG	DA	3041	1/1	0.89	0.18	59,59,59,59	0
56	MG	BA	3621	1/1	0.89	0.38	106,106,106,106	0
56	MG	AA	1803	1/1	0.89	0.37	77,77,77,77	0
56	MG	AA	1932	1/1	0.89	0.47	159,159,159,159	0
56	MG	BB	212	1/1	0.89	0.35	99,99,99,99	0
56	MG	BA	3476	1/1	0.89	0.69	52,52,52,52	0
56	MG	AA	1933	1/1	0.89	0.54	63,63,63,63	0
56	MG	DA	2918	1/1	0.89	0.12	49,49,49,49	0
56	MG	AA	1627	1/1	0.89	0.52	64,64,64,64	0
56	MG	BA	3286	1/1	0.89	0.55	63,63,63,63	0
56	MG	BA	3382	1/1	0.89	0.67	51,51,51,51	0
56	MG	DA	3301	1/1	0.89	0.33	52,52,52,52	0
56	MG	CA	1673	1/1	0.89	0.33	73,73,73,73	0
56	MG	AA	1682	1/1	0.89	0.81	124,124,124,124	0
56	MG	CA	1765	1/1	0.89	0.25	38,38,38,38	0
56	MG	BA	3289	1/1	0.89	0.23	83,83,83,83	0
56	MG	DA	3061	1/1	0.89	0.12	62,62,62,62	0
56	MG	DA	3315	1/1	0.89	0.65	60,60,60,60	0
56	MG	AA	1972	1/1	0.89	0.41	56,56,56,56	0
56	MG	BP	201	1/1	0.89	0.31	54,54,54,54	0
56	MG	BT	201	1/1	0.89	0.27	63,63,63,63	0
56	MG	DA	3505	1/1	0.89	0.18	63,63,63,63	0
56	MG	BA	3645	1/1	0.89	0.33	48,48,48,48	0
56	MG	BA	3647	1/1	0.89	0.30	88,88,88,88	0
56	MG	AA	1807	1/1	0.89	0.27	45,45,45,45	0
56	MG	B1	101	1/1	0.89	0.44	75,75,75,75	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3392	1/1	0.89	0.47	63,63,63,63	0
56	MG	BA	3099	1/1	0.89	0.54	141,141,141,141	0
56	MG	BA	2979	1/1	0.89	1.08	77,77,77,77	0
56	MG	DA	2954	1/1	0.89	0.50	90,90,90,90	0
56	MG	DA	3333	1/1	0.89	0.11	47,47,47,47	0
56	MG	CA	1785	1/1	0.89	0.37	63,63,63,63	0
56	MG	CA	1786	1/1	0.89	0.41	84,84,84,84	0
56	MG	DA	3337	1/1	0.89	0.28	51,51,51,51	0
56	MG	DA	2960	1/1	0.89	0.50	68,68,68,68	0
56	MG	BA	2947	1/1	0.89	0.44	52,52,52,52	0
56	MG	DA	3533	1/1	0.89	0.26	71,71,71,71	0
56	MG	DA	3340	1/1	0.89	0.37	67,67,67,67	0
56	MG	AA	1718	1/1	0.89	0.16	75,75,75,75	0
56	MG	DA	2965	1/1	0.89	0.33	74,74,74,74	0
56	MG	AA	1630	1/1	0.89	0.58	55,55,55,55	0
56	MG	BA	3499	1/1	0.89	0.20	40,40,40,40	0
56	MG	BA	3026	1/1	0.89	0.60	114,114,114,114	0
56	MG	AA	1691	1/1	0.89	0.11	84,84,84,84	0
56	MG	AA	1857	1/1	0.89	0.59	45,45,45,45	0
56	MG	BA	3412	1/1	0.89	0.82	58,58,58,58	0
56	MG	BA	3198	1/1	0.89	0.41	66,66,66,66	0
56	MG	DA	3355	1/1	0.89	0.19	102,102,102,102	0
56	MG	DA	3570	1/1	0.89	0.37	72,72,72,72	0
56	MG	DA	3093	1/1	0.89	0.53	76,76,76,76	0
56	MG	DA	3358	1/1	0.89	0.18	141,141,141,141	0
56	MG	BA	3034	1/1	0.89	0.23	36,36,36,36	0
56	MG	DA	2982	1/1	0.89	0.25	44,44,44,44	0
56	MG	BA	3251	1/1	0.89	0.26	55,55,55,55	0
56	MG	DA	3366	1/1	0.89	0.29	84,84,84,84	0
56	MG	BA	3515	1/1	0.89	0.42	58,58,58,58	0
56	MG	DA	3103	1/1	0.89	0.15	65,65,65,65	0
56	MG	BA	3683	1/1	0.89	0.72	55,55,55,55	0
56	MG	BA	2953	1/1	0.89	0.18	56,56,56,56	0
56	MG	DA	2990	1/1	0.89	0.29	61,61,61,61	0
56	MG	BA	3688	1/1	0.89	0.19	59,59,59,59	0
56	MG	BA	3594	1/1	0.89	0.34	88,88,88,88	0
56	MG	DA	3113	1/1	0.89	0.22	110,110,110,110	0
56	MG	DA	2994	1/1	0.89	0.33	62,62,62,62	0
56	MG	CA	1624	1/1	0.89	0.36	98,98,98,98	0
56	MG	DA	3600	1/1	0.89	0.22	23,23,23,23	0
56	MG	DA	3383	1/1	0.89	0.38	51,51,51,51	0
56	MG	DA	3602	1/1	0.89	0.25	22,22,22,22	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1692	1/1	0.89	0.55	134,134,134,134	0
56	MG	CA	1629	1/1	0.89	0.24	93,93,93,93	0
56	MG	DA	2998	1/1	0.89	0.62	62,62,62,62	0
56	MG	AA	1710	1/1	0.89	0.22	79,79,79,79	0
56	MG	DA	3000	1/1	0.89	0.22	68,68,68,68	0
56	MG	DA	3125	1/1	0.89	0.72	161,161,161,161	0
56	MG	DA	3127	1/1	0.89	0.52	88,88,88,88	0
56	MG	BA	3313	1/1	0.89	0.31	63,63,63,63	0
56	MG	DA	3623	1/1	0.89	0.29	52,52,52,52	0
56	MG	DA	3625	1/1	0.89	0.14	82,82,82,82	0
56	MG	AQ	201	1/1	0.89	0.17	68,68,68,68	0
56	MG	BA	3434	1/1	0.89	0.55	55,55,55,55	0
56	MG	AA	1661	1/1	0.89	0.16	58,58,58,58	0
56	MG	DA	3006	1/1	0.89	0.43	66,66,66,66	0
56	MG	BA	3704	1/1	0.89	0.22	43,43,43,43	0
56	MG	BA	3323	1/1	0.89	0.25	47,47,47,47	0
56	MG	CA	1723	1/1	0.89	0.15	76,76,76,76	0
56	MG	DB	203	1/1	0.89	0.14	66,66,66,66	0
56	MG	DA	3174	1/1	0.89	0.29	49,49,49,49	0
56	MG	BA	3438	1/1	0.89	0.66	49,49,49,49	0
56	MG	BA	3710	1/1	0.89	0.27	81,81,81,81	0
56	MG	BA	3126	1/1	0.89	0.80	235,235,235,235	0
56	MG	AA	1895	1/1	0.89	0.24	33,33,33,33	0
56	MG	DA	3198	1/1	0.89	0.44	41,41,41,41	0
56	MG	BA	3129	1/1	0.89	0.31	72,72,72,72	0
56	MG	BA	3449	1/1	0.89	0.33	49,49,49,49	0
56	MG	DA	3219	1/1	0.89	0.30	42,42,42,42	0
56	MG	BA	3169	1/1	0.89	0.08	64,64,64,64	0
56	MG	DA	3224	1/1	0.89	0.18	40,40,40,40	0
56	MG	DA	3233	1/1	0.89	0.33	62,62,62,62	0
56	MG	AA	1922	1/1	0.89	0.33	86,86,86,86	0
56	MG	DA	3241	1/1	0.89	0.19	28,28,28,28	0
56	MG	BA	3171	1/1	0.89	0.20	43,43,43,43	0
56	MG	CA	1651	1/1	0.89	0.38	95,95,95,95	0
56	MG	BA	3456	1/1	0.89	0.11	65,65,65,65	0
56	MG	DA	3451	1/1	0.89	0.52	56,56,56,56	0
56	MG	DQ	203	1/1	0.89	0.17	67,67,67,67	0
56	MG	AA	1896	1/1	0.89	0.77	77,77,77,77	0
56	MG	BA	2931	1/1	0.89	0.47	98,98,98,98	0
56	MG	DA	3258	1/1	0.89	0.49	58,58,58,58	0
56	MG	DA	3031	1/1	0.89	0.25	77,77,77,77	0
56	MG	DA	3458	1/1	0.89	0.17	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1656	1/1	0.89	0.26	61,61,61,61	0
56	MG	BA	3177	1/1	0.89	0.15	78,78,78,78	0
56	MG	D7	102	1/1	0.89	0.21	32,32,32,32	0
56	MG	DA	2987	1/1	0.90	0.18	63,63,63,63	0
56	MG	BA	3038	1/1	0.90	0.15	58,58,58,58	0
56	MG	AA	1648	1/1	0.90	0.24	61,61,61,61	0
56	MG	DA	3493	1/1	0.90	0.18	57,57,57,57	0
56	MG	CA	1827	1/1	0.90	0.13	45,45,45,45	0
56	MG	AA	1669	1/1	0.90	0.60	68,68,68,68	0
56	MG	DA	3332	1/1	0.90	0.33	45,45,45,45	0
56	MG	BA	3041	1/1	0.90	0.25	68,68,68,68	0
56	MG	BA	3127	1/1	0.90	0.47	102,102,102,102	0
56	MG	BA	3504	1/1	0.90	0.16	39,39,39,39	0
56	MG	AA	1820	1/1	0.90	0.32	166,166,166,166	0
56	MG	BA	3430	1/1	0.90	0.26	47,47,47,47	0
56	MG	BA	3509	1/1	0.90	0.30	75,75,75,75	0
56	MG	BA	3321	1/1	0.90	0.21	50,50,50,50	0
56	MG	DA	3341	1/1	0.90	0.52	55,55,55,55	0
56	MG	BA	3262	1/1	0.90	0.16	75,75,75,75	0
56	MG	BA	3671	1/1	0.90	0.24	84,84,84,84	0
56	MG	DA	3512	1/1	0.90	0.48	33,33,33,33	0
56	MG	DA	3114	1/1	0.90	0.19	81,81,81,81	0
56	MG	BA	2969	1/1	0.90	0.27	79,79,79,79	0
56	MG	BA	3000	1/1	0.90	0.11	64,64,64,64	0
56	MG	AA	1841	1/1	0.90	0.31	113,113,113,113	0
56	MG	BA	3679	1/1	0.90	0.26	27,27,27,27	0
56	MG	CA	1608	1/1	0.90	0.05	86,86,86,86	0
56	MG	DA	3526	1/1	0.90	0.29	61,61,61,61	0
56	MG	AA	1701	1/1	0.90	0.12	79,79,79,79	0
56	MG	BA	3133	1/1	0.90	0.26	48,48,48,48	0
56	MG	AW	118	1/1	0.90	0.61	69,69,69,69	0
56	MG	DA	3357	1/1	0.90	0.51	78,78,78,78	0
56	MG	DA	3011	1/1	0.90	0.40	47,47,47,47	0
56	MG	BA	3687	1/1	0.90	0.23	56,56,56,56	0
56	MG	BA	3353	1/1	0.90	0.35	54,54,54,54	0
56	MG	BA	3689	1/1	0.90	0.32	67,67,67,67	0
56	MG	DA	2906	1/1	0.90	0.26	70,70,70,70	0
56	MG	BA	3527	1/1	0.90	0.42	31,31,31,31	0
56	MG	CA	1864	1/1	0.90	0.39	157,157,157,157	0
56	MG	CA	1773	1/1	0.90	0.14	62,62,62,62	0
56	MG	AA	1802	1/1	0.90	0.40	55,55,55,55	0
56	MG	AA	1955	1/1	0.90	0.33	87,87,87,87	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1654	1/1	0.90	0.41	61,61,61,61	0
56	MG	BA	2977	1/1	0.90	0.41	72,72,72,72	0
56	MG	AA	1899	1/1	0.90	0.15	89,89,89,89	0
56	MG	BA	3142	1/1	0.90	0.48	67,67,67,67	0
56	MG	BA	3459	1/1	0.90	0.26	80,80,80,80	0
56	MG	DA	3382	1/1	0.90	0.40	49,49,49,49	0
56	MG	DA	3200	1/1	0.90	0.47	52,52,52,52	0
56	MG	BA	3063	1/1	0.90	0.48	75,75,75,75	0
56	MG	DA	3203	1/1	0.90	0.22	51,51,51,51	0
56	MG	CA	1875	1/1	0.90	1.09	267,267,267,267	0
56	MG	DA	2929	1/1	0.90	0.24	77,77,77,77	0
56	MG	DA	3391	1/1	0.90	0.19	57,57,57,57	0
56	MG	BA	3014	1/1	0.90	0.20	44,44,44,44	0
56	MG	AA	1958	1/1	0.90	0.29	72,72,72,72	0
56	MG	BA	3466	1/1	0.90	0.40	39,39,39,39	0
56	MG	CA	1791	1/1	0.90	0.64	91,91,91,91	0
56	MG	BA	3376	1/1	0.90	0.16	59,59,59,59	0
56	MG	CA	1883	1/1	0.90	0.28	78,78,78,78	0
56	MG	BA	3066	1/1	0.90	0.16	61,61,61,61	0
56	MG	DA	3246	1/1	0.90	0.64	51,51,51,51	0
56	MG	DA	2941	1/1	0.90	0.20	93,93,93,93	0
56	MG	BA	3470	1/1	0.90	0.50	65,65,65,65	0
56	MG	DA	3048	1/1	0.90	0.64	49,49,49,49	0
56	MG	DA	3413	1/1	0.90	0.71	79,79,79,79	0
56	MG	AA	1962	1/1	0.90	0.30	55,55,55,55	0
56	MG	DA	3420	1/1	0.90	0.24	86,86,86,86	0
56	MG	DA	3259	1/1	0.90	0.30	49,49,49,49	0
56	MG	DA	3422	1/1	0.90	0.26	77,77,77,77	0
56	MG	DA	2947	1/1	0.90	0.38	192,192,192,192	0
56	MG	BA	3552	1/1	0.90	0.23	29,29,29,29	0
56	MG	AA	1965	1/1	0.90	0.13	37,37,37,37	0
56	MG	CA	1799	1/1	0.90	0.38	51,51,51,51	0
56	MG	DA	3268	1/1	0.90	0.34	52,52,52,52	0
56	MG	DA	3269	1/1	0.90	0.25	42,42,42,42	0
56	MG	AA	1883	1/1	0.90	0.38	50,50,50,50	0
56	MG	BA	3294	1/1	0.90	0.53	75,75,75,75	0
56	MG	BA	3296	1/1	0.90	0.58	59,59,59,59	0
56	MG	DA	3283	1/1	0.90	0.32	26,26,26,26	0
56	MG	DA	3435	1/1	0.90	0.73	68,68,68,68	0
56	MG	CA	1803	1/1	0.90	0.25	146,146,146,146	0
56	MG	DA	3437	1/1	0.90	0.10	59,59,59,59	0
56	MG	BA	3724	1/1	0.90	0.75	119,119,119,119	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3440	1/1	0.90	0.48	58,58,58,58	0
56	MG	BA	2902	1/1	0.90	0.19	86,86,86,86	0
56	MG	DA	2957	1/1	0.90	0.23	64,64,64,64	0
56	MG	DA	3065	1/1	0.90	0.30	88,88,88,88	0
56	MG	AW	103	1/1	0.90	0.22	70,70,70,70	0
56	MG	BA	3027	1/1	0.90	0.24	85,85,85,85	0
56	MG	BA	3634	1/1	0.90	0.37	11,11,11,11	0
56	MG	BA	3394	1/1	0.90	0.49	56,56,56,56	0
56	MG	CA	1906	1/1	0.90	0.11	114,114,114,114	0
56	MG	DB	215	1/1	0.90	0.14	79,79,79,79	0
56	MG	DB	217	1/1	0.90	0.16	121,121,121,121	0
56	MG	BA	3155	1/1	0.90	0.61	93,93,93,93	0
56	MG	DA	2969	1/1	0.90	0.14	68,68,68,68	0
56	MG	DB	220	1/1	0.90	0.30	40,40,40,40	0
56	MG	BA	3301	1/1	0.90	0.15	64,64,64,64	0
56	MG	AA	1940	1/1	0.90	0.17	82,82,82,82	0
56	MG	DA	3305	1/1	0.90	0.38	46,46,46,46	0
56	MG	DA	3306	1/1	0.90	0.55	48,48,48,48	0
56	MG	DA	2973	1/1	0.90	0.23	57,57,57,57	0
56	MG	CA	1910	1/1	0.90	0.34	77,77,77,77	0
56	MG	AA	1901	1/1	0.90	0.27	71,71,71,71	0
56	MG	AA	1888	1/1	0.90	0.41	49,49,49,49	0
56	MG	CA	1913	1/1	0.90	0.47	69,69,69,69	0
56	MG	DA	3475	1/1	0.90	0.13	54,54,54,54	0
56	MG	DW	202	1/1	0.90	0.25	50,50,50,50	0
56	MG	DA	2981	1/1	0.90	0.41	105,105,105,105	0
56	MG	BA	3646	1/1	0.90	0.21	52,52,52,52	0
56	MG	AA	1769	1/1	0.90	0.35	79,79,79,79	0
56	MG	D5	102	1/1	0.90	0.10	68,68,68,68	0
56	MG	DA	2985	1/1	0.90	0.18	107,107,107,107	0
56	MG	BA	3254	1/1	0.90	0.24	93,93,93,93	0
56	MG	BA	3226	1/1	0.91	0.25	58,58,58,58	0
56	MG	CA	1824	1/1	0.91	0.55	118,118,118,118	0
56	MG	DA	3036	1/1	0.91	0.10	80,80,80,80	0
56	MG	BA	3288	1/1	0.91	0.27	71,71,71,71	0
56	MG	AA	1800	1/1	0.91	0.42	87,87,87,87	0
56	MG	AA	1833	1/1	0.91	0.26	72,72,72,72	0
56	MG	AA	1834	1/1	0.91	0.25	178,178,178,178	0
56	MG	DA	3273	1/1	0.91	0.54	30,30,30,30	0
56	MG	DA	3462	1/1	0.91	0.66	55,55,55,55	0
56	MG	AA	1862	1/1	0.91	0.79	212,212,212,212	0
56	MG	DA	3276	1/1	0.91	0.18	26,26,26,26	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3281	1/1	0.91	0.15	48,48,48,48	0
56	MG	DA	3282	1/1	0.91	0.41	42,42,42,42	0
56	MG	BA	3572	1/1	0.91	0.20	62,62,62,62	0
56	MG	BA	3669	1/1	0.91	0.65	53,53,53,53	0
56	MG	AA	1737	1/1	0.91	0.30	72,72,72,72	0
56	MG	DA	3286	1/1	0.91	0.29	42,42,42,42	0
56	MG	CA	1838	1/1	0.91	0.48	66,66,66,66	0
56	MG	BA	2963	1/1	0.91	0.38	63,63,63,63	0
56	MG	BA	3576	1/1	0.91	0.41	97,97,97,97	0
56	MG	BA	3675	1/1	0.91	0.26	145,145,145,145	0
56	MG	DA	3050	1/1	0.91	0.55	56,56,56,56	0
56	MG	DA	3293	1/1	0.91	0.28	58,58,58,58	0
56	MG	AA	1949	1/1	0.91	0.15	60,60,60,60	0
56	MG	AA	1715	1/1	0.91	0.15	86,86,86,86	0
56	MG	DA	3492	1/1	0.91	0.20	61,61,61,61	0
56	MG	DA	2919	1/1	0.91	0.62	50,50,50,50	0
56	MG	DA	3298	1/1	0.91	0.35	46,46,46,46	0
56	MG	DA	2920	1/1	0.91	0.21	83,83,83,83	0
56	MG	CA	1627	1/1	0.91	0.56	85,85,85,85	0
56	MG	DA	2924	1/1	0.91	0.56	43,43,43,43	0
56	MG	DA	3303	1/1	0.91	0.68	53,53,53,53	0
56	MG	CA	1845	1/1	0.91	0.22	60,60,60,60	0
56	MG	BA	3681	1/1	0.91	0.19	42,42,42,42	0
56	MG	CA	1848	1/1	0.91	0.32	113,113,113,113	0
56	MG	BA	3401	1/1	0.91	0.42	28,28,28,28	0
56	MG	DA	2932	1/1	0.91	0.14	59,59,59,59	0
56	MG	CA	1733	1/1	0.91	0.23	197,197,197,197	0
56	MG	DA	3310	1/1	0.91	0.49	52,52,52,52	0
56	MG	AA	1924	1/1	0.91	0.47	55,55,55,55	0
56	MG	CA	1853	1/1	0.91	0.13	52,52,52,52	0
56	MG	DA	3514	1/1	0.91	0.21	48,48,48,48	0
56	MG	BA	3056	1/1	0.91	0.47	117,117,117,117	0
56	MG	BA	3495	1/1	0.91	0.08	51,51,51,51	0
56	MG	DA	3071	1/1	0.91	0.12	92,92,92,92	0
56	MG	DA	3520	1/1	0.91	0.63	93,93,93,93	0
56	MG	BA	3145	1/1	0.91	0.38	53,53,53,53	0
56	MG	BA	3006	1/1	0.91	0.21	107,107,107,107	0
56	MG	BA	3691	1/1	0.91	0.28	45,45,45,45	0
56	MG	CA	1641	1/1	0.91	0.13	135,135,135,135	0
56	MG	AA	1677	1/1	0.91	0.18	65,65,65,65	0
56	MG	BA	3061	1/1	0.91	0.61	61,61,61,61	0
56	MG	DA	3529	1/1	0.91	0.29	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1991	1/1	0.91	0.09	96,96,96,96	0
56	MG	CA	1744	1/1	0.91	0.21	95,95,95,95	0
56	MG	BA	3413	1/1	0.91	0.13	21,21,21,21	0
56	MG	BA	3102	1/1	0.91	0.18	61,61,61,61	0
56	MG	BA	3195	1/1	0.91	0.18	97,97,97,97	0
56	MG	DA	3085	1/1	0.91	0.22	49,49,49,49	0
56	MG	AA	1926	1/1	0.91	0.39	37,37,37,37	0
56	MG	BA	3703	1/1	0.91	0.97	70,70,70,70	0
56	MG	AA	1771	1/1	0.91	0.14	55,55,55,55	0
56	MG	DA	3547	1/1	0.91	0.38	70,70,70,70	0
56	MG	AA	1930	1/1	0.91	0.45	198,198,198,198	0
56	MG	DA	3557	1/1	0.91	0.19	16,16,16,16	0
56	MG	CA	1652	1/1	0.91	0.91	193,193,193,193	0
56	MG	BA	3512	1/1	0.91	0.20	42,42,42,42	0
56	MG	CA	1760	1/1	0.91	0.18	67,67,67,67	0
56	MG	DA	3565	1/1	0.91	0.18	51,51,51,51	0
56	MG	BA	3513	1/1	0.91	0.26	40,40,40,40	0
56	MG	AA	1674	1/1	0.91	0.27	126,126,126,126	0
56	MG	AA	1707	1/1	0.91	0.11	67,67,67,67	0
56	MG	AA	1847	1/1	0.91	0.32	209,209,209,209	0
56	MG	DA	3101	1/1	0.91	0.31	101,101,101,101	0
56	MG	DA	3102	1/1	0.91	0.53	126,126,126,126	0
56	MG	BA	2909	1/1	0.91	0.34	114,114,114,114	0
56	MG	AA	1743	1/1	0.91	0.41	81,81,81,81	0
56	MG	BA	3521	1/1	0.91	0.23	53,53,53,53	0
56	MG	CA	1771	1/1	0.91	0.20	70,70,70,70	0
56	MG	DA	3359	1/1	0.91	0.35	57,57,57,57	0
56	MG	DA	3108	1/1	0.91	0.41	74,74,74,74	0
56	MG	DA	2977	1/1	0.91	0.68	84,84,84,84	0
56	MG	DA	3110	1/1	0.91	0.20	63,63,63,63	0
56	MG	BA	3719	1/1	0.91	0.09	125,125,125,125	0
56	MG	BA	3324	1/1	0.91	0.34	15,15,15,15	0
56	MG	BA	2945	1/1	0.91	0.40	76,76,76,76	0
56	MG	BA	3437	1/1	0.91	0.72	82,82,82,82	0
56	MG	BA	3525	1/1	0.91	0.44	40,40,40,40	0
56	MG	BA	2911	1/1	0.91	0.54	91,91,91,91	0
56	MG	CA	1899	1/1	0.91	0.44	41,41,41,41	0
56	MG	BA	3439	1/1	0.91	0.37	59,59,59,59	0
56	MG	BA	3441	1/1	0.91	0.27	56,56,56,56	0
56	MG	AA	1736	1/1	0.91	0.47	83,83,83,83	0
56	MG	BA	3443	1/1	0.91	0.38	18,18,18,18	0
56	MG	BA	3535	1/1	0.91	0.33	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3619	1/1	0.91	0.28	53,53,53,53	0
56	MG	DA	3615	1/1	0.91	0.27	57,57,57,57	0
56	MG	BB	210	1/1	0.91	0.11	88,88,88,88	0
56	MG	BA	3341	1/1	0.91	0.29	69,69,69,69	0
56	MG	DA	3619	1/1	0.91	0.49	53,53,53,53	0
56	MG	BA	3446	1/1	0.91	0.22	93,93,93,93	0
56	MG	DA	3156	1/1	0.91	0.35	33,33,33,33	0
56	MG	DA	3624	1/1	0.91	0.25	35,35,35,35	0
56	MG	BA	2948	1/1	0.91	0.59	56,56,56,56	0
56	MG	BA	3344	1/1	0.91	0.53	39,39,39,39	0
56	MG	BA	3624	1/1	0.91	0.27	83,83,83,83	0
56	MG	BA	3269	1/1	0.91	0.27	66,66,66,66	0
56	MG	CA	1797	1/1	0.91	0.91	61,61,61,61	0
56	MG	DA	3631	1/1	0.91	0.23	85,85,85,85	0
56	MG	BB	217	1/1	0.91	0.19	99,99,99,99	0
56	MG	BB	220	1/1	0.91	0.13	123,123,123,123	0
56	MG	AW	108	1/1	0.91	0.39	72,72,72,72	0
56	MG	BA	3356	1/1	0.91	0.26	43,43,43,43	0
56	MG	BA	3271	1/1	0.91	0.27	68,68,68,68	0
56	MG	DA	3406	1/1	0.91	0.16	62,62,62,62	0
56	MG	BA	3272	1/1	0.91	0.40	49,49,49,49	0
56	MG	BA	3547	1/1	0.91	0.17	43,43,43,43	0
56	MG	CA	1924	1/1	0.91	0.54	73,73,73,73	0
56	MG	DA	3415	1/1	0.91	0.37	46,46,46,46	0
56	MG	DA	3207	1/1	0.91	0.47	41,41,41,41	0
56	MG	DA	3417	1/1	0.91	0.29	145,145,145,145	0
56	MG	DA	3419	1/1	0.91	0.24	54,54,54,54	0
56	MG	DA	3210	1/1	0.91	0.32	38,38,38,38	0
56	MG	DA	3212	1/1	0.91	0.53	42,42,42,42	0
56	MG	DA	3213	1/1	0.91	0.26	60,60,60,60	0
56	MG	CA	1925	1/1	0.91	0.33	94,94,94,94	0
56	MG	BA	3125	1/1	0.91	0.36	106,106,106,106	0
56	MG	BA	3549	1/1	0.91	0.12	66,66,66,66	0
56	MG	BA	3643	1/1	0.91	0.49	57,57,57,57	0
56	MG	DA	3226	1/1	0.91	0.31	20,20,20,20	0
56	MG	AA	1755	1/1	0.91	0.13	123,123,123,123	0
56	MG	AA	1853	1/1	0.91	0.24	69,69,69,69	0
56	MG	DP	202	1/1	0.91	0.40	73,73,73,73	0
56	MG	BA	3036	1/1	0.91	0.34	131,131,131,131	0
56	MG	DA	3242	1/1	0.91	0.48	40,40,40,40	0
56	MG	DA	3020	1/1	0.91	0.17	74,74,74,74	0
56	MG	AA	1766	1/1	0.91	0.34	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3172	1/1	0.91	0.29	62,62,62,62	0
56	MG	AA	1816	1/1	0.91	0.25	69,69,69,69	0
56	MG	BA	3174	1/1	0.91	0.15	69,69,69,69	0
56	MG	DA	3255	1/1	0.91	0.30	44,44,44,44	0
56	MG	AW	114	1/1	0.91	0.19	82,82,82,82	0
56	MG	DA	3445	1/1	0.91	0.27	46,46,46,46	0
56	MG	BA	3474	1/1	0.91	0.40	44,44,44,44	0
56	MG	CA	1821	1/1	0.91	0.21	56,56,56,56	0
56	MG	BA	3657	1/1	0.91	0.27	55,55,55,55	0
56	MG	BA	3425	1/1	0.92	0.33	202,202,202,202	0
56	MG	DA	3487	1/1	0.92	0.61	108,108,108,108	0
56	MG	BA	3426	1/1	0.92	0.29	28,28,28,28	0
56	MG	CA	1775	1/1	0.92	0.20	47,47,47,47	0
56	MG	CA	1666	1/1	0.92	0.31	73,73,73,73	0
56	MG	BA	3429	1/1	0.92	0.61	43,43,43,43	0
56	MG	BA	2912	1/1	0.92	0.37	67,67,67,67	0
56	MG	BA	3134	1/1	0.92	0.85	122,122,122,122	0
56	MG	DA	3495	1/1	0.92	0.12	63,63,63,63	0
56	MG	AA	1747	1/1	0.92	0.29	109,109,109,109	0
56	MG	BA	3136	1/1	0.92	0.64	205,205,205,205	0
56	MG	BA	3183	1/1	0.92	0.20	79,79,79,79	0
56	MG	DA	3105	1/1	0.92	0.42	94,94,94,94	0
56	MG	BB	204	1/1	0.92	0.13	53,53,53,53	0
56	MG	BA	3526	1/1	0.92	0.36	65,65,65,65	0
56	MG	AA	1703	1/1	0.92	0.40	64,64,64,64	0
56	MG	DA	3503	1/1	0.92	0.13	92,92,92,92	0
56	MG	AA	1663	1/1	0.92	0.25	44,44,44,44	0
56	MG	BA	3530	1/1	0.92	0.38	57,57,57,57	0
56	MG	DA	3507	1/1	0.92	0.43	70,70,70,70	0
56	MG	BA	3187	1/1	0.92	0.24	56,56,56,56	0
56	MG	BA	3249	1/1	0.92	0.24	84,84,84,84	0
56	MG	AA	1886	1/1	0.92	0.40	65,65,65,65	0
56	MG	DA	2992	1/1	0.92	0.28	63,63,63,63	0
56	MG	BA	3534	1/1	0.92	0.13	32,32,32,32	0
56	MG	AA	1618	1/1	0.92	0.41	104,104,104,104	0
56	MG	BA	3627	1/1	0.92	0.28	100,100,100,100	0
56	MG	DA	3344	1/1	0.92	0.33	29,29,29,29	0
56	MG	AA	1859	1/1	0.92	0.33	177,177,177,177	0
56	MG	AA	1812	1/1	0.92	0.39	273,273,273,273	0
56	MG	BB	218	1/1	0.92	0.45	50,50,50,50	0
56	MG	DA	3124	1/1	0.92	0.29	32,32,32,32	0
56	MG	DA	3524	1/1	0.92	0.18	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3091	1/1	0.92	0.20	125,125,125,125	0
56	MG	BA	3336	1/1	0.92	0.34	31,31,31,31	0
56	MG	BA	3144	1/1	0.92	0.15	53,53,53,53	0
56	MG	BA	2955	1/1	0.92	0.21	45,45,45,45	0
56	MG	CA	1694	1/1	0.92	0.64	69,69,69,69	0
56	MG	BA	3051	1/1	0.92	0.31	32,32,32,32	0
56	MG	DA	3005	1/1	0.92	0.47	89,89,89,89	0
56	MG	AA	1944	1/1	0.92	0.42	67,67,67,67	0
56	MG	BA	3454	1/1	0.92	0.24	60,60,60,60	0
56	MG	DA	3537	1/1	0.92	0.33	62,62,62,62	0
56	MG	DA	3363	1/1	0.92	0.18	42,42,42,42	0
56	MG	AA	1761	1/1	0.92	0.30	118,118,118,118	0
56	MG	CV	101	1/1	0.92	0.28	87,87,87,87	0
56	MG	AA	1843	1/1	0.92	0.24	124,124,124,124	0
56	MG	AA	1865	1/1	0.92	0.42	98,98,98,98	0
56	MG	BA	2961	1/1	0.92	0.24	83,83,83,83	0
56	MG	CW	103	1/1	0.92	0.08	57,57,57,57	0
56	MG	DA	3190	1/1	0.92	0.15	25,25,25,25	0
56	MG	B5	101	1/1	0.92	0.21	34,34,34,34	0
56	MG	BA	3266	1/1	0.92	0.33	73,73,73,73	0
56	MG	BA	3362	1/1	0.92	0.26	26,26,26,26	0
56	MG	DA	3566	1/1	0.92	0.21	43,43,43,43	0
56	MG	AA	1948	1/1	0.92	0.95	103,103,103,103	0
56	MG	BA	3203	1/1	0.92	0.49	98,98,98,98	0
56	MG	BA	3656	1/1	0.92	0.20	31,31,31,31	0
56	MG	DA	3208	1/1	0.92	0.59	29,29,29,29	0
56	MG	DA	3024	1/1	0.92	0.27	65,65,65,65	0
56	MG	DA	3211	1/1	0.92	0.32	33,33,33,33	0
56	MG	BA	3103	1/1	0.92	0.36	89,89,89,89	0
56	MG	BA	3658	1/1	0.92	0.43	71,71,71,71	0
56	MG	DA	3388	1/1	0.92	0.14	63,63,63,63	0
56	MG	AA	1983	1/1	0.92	1.07	76,76,76,76	0
56	MG	CA	1826	1/1	0.92	0.36	73,73,73,73	0
56	MG	DA	3220	1/1	0.92	0.29	43,43,43,43	0
56	MG	CA	1715	1/1	0.92	0.32	79,79,79,79	0
56	MG	CA	1716	1/1	0.92	0.21	86,86,86,86	0
56	MG	DA	3396	1/1	0.92	0.24	18,18,18,18	0
56	MG	BA	3471	1/1	0.92	0.11	45,45,45,45	0
56	MG	DA	3227	1/1	0.92	0.20	45,45,45,45	0
56	MG	AA	1984	1/1	0.92	0.23	42,42,42,42	0
56	MG	CA	1834	1/1	0.92	0.33	108,108,108,108	0
56	MG	BA	3007	1/1	0.92	0.46	170,170,170,170	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3373	1/1	0.92	0.49	39,39,39,39	0
56	MG	AA	1845	1/1	0.92	0.49	67,67,67,67	0
56	MG	AA	1670	1/1	0.92	0.35	77,77,77,77	0
56	MG	BA	3378	1/1	0.92	0.39	30,30,30,30	0
56	MG	BA	3160	1/1	0.92	0.34	51,51,51,51	0
56	MG	CA	1726	1/1	0.92	0.26	80,80,80,80	0
56	MG	DA	3251	1/1	0.92	0.29	32,32,32,32	0
56	MG	DA	3252	1/1	0.92	0.28	42,42,42,42	0
56	MG	AA	1730	1/1	0.92	0.20	78,78,78,78	0
56	MG	AA	1871	1/1	0.92	0.18	29,29,29,29	0
56	MG	BA	3216	1/1	0.92	0.24	48,48,48,48	0
56	MG	BA	3116	1/1	0.92	0.16	87,87,87,87	0
56	MG	DA	3622	1/1	0.92	0.22	50,50,50,50	0
56	MG	BA	2933	1/1	0.92	0.22	69,69,69,69	0
56	MG	BA	3579	1/1	0.92	0.46	65,65,65,65	0
56	MG	BA	3580	1/1	0.92	0.54	60,60,60,60	0
56	MG	DA	3263	1/1	0.92	0.35	61,61,61,61	0
56	MG	DA	3051	1/1	0.92	0.17	64,64,64,64	0
56	MG	CA	1628	1/1	0.92	0.16	86,86,86,86	0
56	MG	BA	3219	1/1	0.92	0.62	78,78,78,78	0
56	MG	CA	1852	1/1	0.92	0.25	93,93,93,93	0
56	MG	BA	3489	1/1	0.92	0.22	54,54,54,54	0
56	MG	DA	3433	1/1	0.92	0.17	27,27,27,27	0
56	MG	BA	3220	1/1	0.92	0.24	58,58,58,58	0
56	MG	AA	1754	1/1	0.92	0.58	72,72,72,72	0
56	MG	AA	1954	1/1	0.92	0.29	142,142,142,142	0
56	MG	DA	3278	1/1	0.92	0.30	83,83,83,83	0
56	MG	CA	1858	1/1	0.92	0.22	97,97,97,97	0
56	MG	BA	3398	1/1	0.92	0.61	64,64,64,64	0
56	MG	BA	3399	1/1	0.92	0.55	38,38,38,38	0
56	MG	BA	3695	1/1	0.92	0.10	95,95,95,95	0
56	MG	AA	1611	1/1	0.92	0.18	109,109,109,109	0
56	MG	DB	211	1/1	0.92	0.31	35,35,35,35	0
56	MG	DA	2942	1/1	0.92	0.19	69,69,69,69	0
56	MG	BA	3018	1/1	0.92	0.18	59,59,59,59	0
56	MG	BA	3293	1/1	0.92	0.19	62,62,62,62	0
56	MG	BA	3699	1/1	0.92	0.31	70,70,70,70	0
56	MG	BA	2937	1/1	0.92	0.23	71,71,71,71	0
56	MG	BA	2906	1/1	0.92	0.27	84,84,84,84	0
56	MG	AA	1832	1/1	0.92	0.15	67,67,67,67	0
56	MG	BA	3505	1/1	0.92	1.25	101,101,101,101	0
56	MG	BA	3506	1/1	0.92	0.42	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3707	1/1	0.92	0.05	84,84,84,84	0
56	MG	AA	1821	1/1	0.92	0.13	70,70,70,70	0
56	MG	AA	1880	1/1	0.92	0.32	43,43,43,43	0
56	MG	DI	201	1/1	0.92	0.21	49,49,49,49	0
56	MG	DI	202	1/1	0.92	0.14	54,54,54,54	0
56	MG	DA	3466	1/1	0.92	0.26	90,90,90,90	0
56	MG	AA	1959	1/1	0.92	0.23	63,63,63,63	0
56	MG	BA	3510	1/1	0.92	0.34	86,86,86,86	0
56	MG	DA	2958	1/1	0.92	0.85	95,95,95,95	0
56	MG	CA	1880	1/1	0.92	0.82	118,118,118,118	0
56	MG	BA	3235	1/1	0.92	0.07	63,63,63,63	0
56	MG	BA	2982	1/1	0.92	0.31	86,86,86,86	0
56	MG	AA	1961	1/1	0.92	0.18	53,53,53,53	0
56	MG	DA	3477	1/1	0.92	0.66	56,56,56,56	0
56	MG	BA	3716	1/1	0.92	0.07	80,80,80,80	0
56	MG	BA	3238	1/1	0.92	0.37	61,61,61,61	0
56	MG	BA	2984	1/1	0.92	0.48	40,40,40,40	0
56	MG	DA	3312	1/1	0.92	0.17	61,61,61,61	0
56	MG	DA	3485	1/1	0.92	0.79	120,120,120,120	0
56	MG	DA	3412	1/1	0.93	0.26	60,60,60,60	0
56	MG	CA	1774	1/1	0.93	0.26	59,59,59,59	0
56	MG	DA	3414	1/1	0.93	0.15	48,48,48,48	0
56	MG	DA	3299	1/1	0.93	0.41	38,38,38,38	0
56	MG	AA	1889	1/1	0.93	0.20	81,81,81,81	0
56	MG	CA	1707	1/1	0.93	0.18	50,50,50,50	0
56	MG	DA	3538	1/1	0.93	0.11	70,70,70,70	0
56	MG	AA	1741	1/1	0.93	0.29	91,91,91,91	0
56	MG	DA	3159	1/1	0.93	0.32	62,62,62,62	0
56	MG	AA	1985	1/1	0.93	0.32	108,108,108,108	0
56	MG	DA	3543	1/1	0.93	0.17	88,88,88,88	0
56	MG	DA	2968	1/1	0.93	0.15	54,54,54,54	0
56	MG	BA	3280	1/1	0.93	0.16	84,84,84,84	0
56	MG	DA	3164	1/1	0.93	0.17	30,30,30,30	0
56	MG	AA	1936	1/1	0.93	0.77	94,94,94,94	0
56	MG	DA	3175	1/1	0.93	0.33	38,38,38,38	0
56	MG	BA	3464	1/1	0.93	0.33	84,84,84,84	0
56	MG	DA	3562	1/1	0.93	0.20	45,45,45,45	0
56	MG	DA	3563	1/1	0.93	0.48	62,62,62,62	0
56	MG	CA	1784	1/1	0.93	0.50	96,96,96,96	0
56	MG	AA	1781	1/1	0.93	0.34	42,42,42,42	0
56	MG	BA	3201	1/1	0.93	0.29	71,71,71,71	0
56	MG	DA	3567	1/1	0.93	0.20	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3408	1/1	0.93	0.28	50,50,50,50	0
56	MG	AA	1671	1/1	0.93	0.30	87,87,87,87	0
56	MG	CA	1862	1/1	0.93	0.31	117,117,117,117	0
56	MG	BA	3411	1/1	0.93	0.36	31,31,31,31	0
56	MG	DA	3573	1/1	0.93	0.14	34,34,34,34	0
56	MG	AA	1636	1/1	0.93	0.20	97,97,97,97	0
56	MG	BY	201	1/1	0.93	0.21	30,30,30,30	0
56	MG	AA	1918	1/1	0.93	0.21	51,51,51,51	0
56	MG	BA	3001	1/1	0.93	0.08	86,86,86,86	0
56	MG	AO	101	1/1	0.93	0.33	110,110,110,110	0
56	MG	DA	3443	1/1	0.93	0.22	45,45,45,45	0
56	MG	DA	3444	1/1	0.93	0.25	55,55,55,55	0
56	MG	DA	3584	1/1	0.93	0.34	49,49,49,49	0
56	MG	AA	1785	1/1	0.93	0.32	62,62,62,62	0
56	MG	BA	3630	1/1	0.93	0.36	19,19,19,19	0
56	MG	DA	3448	1/1	0.93	0.21	43,43,43,43	0
56	MG	B8	102	1/1	0.93	0.27	39,39,39,39	0
56	MG	DA	3334	1/1	0.93	0.36	72,72,72,72	0
56	MG	DA	2901	1/1	0.93	0.27	47,47,47,47	0
56	MG	AA	1711	1/1	0.93	0.21	83,83,83,83	0
56	MG	DA	3221	1/1	0.93	0.25	38,38,38,38	0
56	MG	BA	3635	1/1	0.93	0.43	37,37,37,37	0
56	MG	DA	3457	1/1	0.93	0.44	64,64,64,64	0
56	MG	BA	3042	1/1	0.93	0.30	67,67,67,67	0
56	MG	BA	3113	1/1	0.93	0.48	109,109,109,109	0
56	MG	DA	2908	1/1	0.93	0.28	60,60,60,60	0
56	MG	DA	3230	1/1	0.93	0.14	41,41,41,41	0
56	MG	AA	1712	1/1	0.93	0.31	166,166,166,166	0
56	MG	DA	3237	1/1	0.93	0.47	42,42,42,42	0
56	MG	BA	3586	1/1	0.93	0.26	17,17,17,17	0
56	MG	BA	3045	1/1	0.93	1.47	103,103,103,103	0
56	MG	DA	3469	1/1	0.93	0.20	55,55,55,55	0
56	MG	BA	3046	1/1	0.93	0.45	126,126,126,126	0
56	MG	AA	1875	1/1	0.93	0.14	37,37,37,37	0
56	MG	BA	2901	1/1	0.93	0.93	123,123,123,123	0
56	MG	BA	3372	1/1	0.93	0.27	27,27,27,27	0
56	MG	DA	3087	1/1	0.93	0.74	52,52,52,52	0
56	MG	BA	3648	1/1	0.93	0.29	54,54,54,54	0
56	MG	AA	1969	1/1	0.93	0.55	63,63,63,63	0
56	MG	AA	1789	1/1	0.93	0.18	63,63,63,63	0
56	MG	CA	1888	1/1	0.93	0.17	67,67,67,67	0
56	MG	DA	3256	1/1	0.93	0.18	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3361	1/1	0.93	0.29	73,73,73,73	0
56	MG	BA	3652	1/1	0.93	0.19	63,63,63,63	0
56	MG	DA	2922	1/1	0.93	0.15	47,47,47,47	0
56	MG	CA	1891	1/1	0.93	0.22	63,63,63,63	0
56	MG	AA	1623	1/1	0.93	0.10	84,84,84,84	0
56	MG	CA	1818	1/1	0.93	0.26	71,71,71,71	0
56	MG	AA	1776	1/1	0.93	0.56	146,146,146,146	0
56	MG	AA	1756	1/1	0.93	0.14	87,87,87,87	0
56	MG	AA	1863	1/1	0.93	0.34	53,53,53,53	0
56	MG	DA	3267	1/1	0.93	0.16	32,32,32,32	0
56	MG	DA	3372	1/1	0.93	0.19	40,40,40,40	0
56	MG	BA	3440	1/1	0.93	0.40	37,37,37,37	0
56	MG	CA	1749	1/1	0.93	0.18	64,64,64,64	0
56	MG	BA	3385	1/1	0.93	0.35	50,50,50,50	0
56	MG	BA	3660	1/1	0.93	0.36	45,45,45,45	0
56	MG	DA	3272	1/1	0.93	0.25	53,53,53,53	0
56	MG	AA	1603	1/1	0.93	0.22	64,64,64,64	0
56	MG	CA	1903	1/1	0.93	0.26	73,73,73,73	0
56	MG	BA	3057	1/1	0.93	0.34	65,65,65,65	0
56	MG	AA	1706	1/1	0.93	0.43	186,186,186,186	0
56	MG	DA	3279	1/1	0.93	0.27	29,29,29,29	0
56	MG	DA	3280	1/1	0.93	0.49	59,59,59,59	0
56	MG	DA	3387	1/1	0.93	0.22	39,39,39,39	0
56	MG	BA	3228	1/1	0.93	0.13	83,83,83,83	0
56	MG	BA	3161	1/1	0.93	0.45	73,73,73,73	0
56	MG	BA	2989	1/1	0.93	0.33	84,84,84,84	0
56	MG	CA	1763	1/1	0.93	0.19	46,46,46,46	0
56	MG	DP	201	1/1	0.93	0.26	43,43,43,43	0
56	MG	CA	1697	1/1	0.93	0.74	50,50,50,50	0
56	MG	DA	3034	1/1	0.93	0.60	49,49,49,49	0
56	MG	DA	3518	1/1	0.93	0.44	63,63,63,63	0
56	MG	CA	1635	1/1	0.93	0.18	119,119,119,119	0
56	MG	BA	3555	1/1	0.93	0.18	94,94,94,94	0
56	MG	BA	3231	1/1	0.93	0.20	39,39,39,39	0
56	MG	CA	1701	1/1	0.93	0.21	88,88,88,88	0
56	MG	DA	3291	1/1	0.93	0.41	44,44,44,44	0
56	MG	CA	1769	1/1	0.93	0.17	58,58,58,58	0
56	MG	DA	3525	1/1	0.93	0.13	58,58,58,58	0
56	MG	BA	3670	1/1	0.93	0.30	79,79,79,79	0
56	MG	BA	3609	1/1	0.93	0.57	149,149,149,149	0
56	MG	BA	3233	1/1	0.93	0.30	55,55,55,55	0
56	MG	AA	1910	1/1	0.93	0.56	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	2916	1/1	0.94	0.32	37,37,37,37	0
56	MG	CA	1692	1/1	0.94	0.27	62,62,62,62	0
56	MG	AW	106	1/1	0.94	0.20	87,87,87,87	0
56	MG	DA	3228	1/1	0.94	0.39	31,31,31,31	0
56	MG	DA	3515	1/1	0.94	0.09	76,76,76,76	0
56	MG	BA	3283	1/1	0.94	0.21	67,67,67,67	0
56	MG	DA	3370	1/1	0.94	0.42	66,66,66,66	0
56	MG	BA	3677	1/1	0.94	0.40	18,18,18,18	0
56	MG	DA	2943	1/1	0.94	0.15	25,25,25,25	0
56	MG	BA	2956	1/1	0.94	0.16	42,42,42,42	0
56	MG	DA	3239	1/1	0.94	0.44	43,43,43,43	0
56	MG	BA	3232	1/1	0.94	0.22	65,65,65,65	0
56	MG	DA	3377	1/1	0.94	0.32	58,58,58,58	0
56	MG	BA	2998	1/1	0.94	0.31	65,65,65,65	0
56	MG	BA	3447	1/1	0.94	0.20	64,64,64,64	0
56	MG	CA	1612	1/1	0.94	0.30	82,82,82,82	0
56	MG	AA	1963	1/1	0.94	0.21	80,80,80,80	0
56	MG	AA	1964	1/1	0.94	0.16	84,84,84,84	0
56	MG	AA	1673	1/1	0.94	0.20	104,104,104,104	0
56	MG	AA	1685	1/1	0.94	0.15	199,199,199,199	0
56	MG	CA	1894	1/1	0.94	0.07	89,89,89,89	0
56	MG	BA	3690	1/1	0.94	0.12	66,66,66,66	0
56	MG	AW	111	1/1	0.94	0.12	91,91,91,91	0
56	MG	DA	3389	1/1	0.94	0.21	68,68,68,68	0
56	MG	AA	1649	1/1	0.94	0.90	110,110,110,110	0
56	MG	AA	1696	1/1	0.94	0.22	96,96,96,96	0
56	MG	DA	2959	1/1	0.94	0.51	48,48,48,48	0
56	MG	BA	3457	1/1	0.94	0.24	68,68,68,68	0
56	MG	BA	3383	1/1	0.94	0.34	39,39,39,39	0
56	MG	BA	3384	1/1	0.94	0.09	71,71,71,71	0
56	MG	CA	1804	1/1	0.94	0.37	78,78,78,78	0
56	MG	DA	3546	1/1	0.94	0.34	62,62,62,62	0
56	MG	DA	3264	1/1	0.94	0.23	44,44,44,44	0
56	MG	CA	1805	1/1	0.94	0.25	63,63,63,63	0
56	MG	CA	1625	1/1	0.94	0.36	125,125,125,125	0
56	MG	BA	3295	1/1	0.94	0.65	97,97,97,97	0
56	MG	BA	3106	1/1	0.94	0.22	57,57,57,57	0
56	MG	AA	1784	1/1	0.94	0.07	72,72,72,72	0
56	MG	BA	3109	1/1	0.94	0.23	63,63,63,63	0
56	MG	DA	3084	1/1	0.94	0.35	83,83,83,83	0
56	MG	AA	1851	1/1	0.94	0.28	111,111,111,111	0
56	MG	BA	3615	1/1	0.94	0.22	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1876	1/1	0.94	0.50	123,123,123,123	0
56	MG	AA	1602	1/1	0.94	0.24	163,163,163,163	0
56	MG	DA	2978	1/1	0.94	0.46	64,64,64,64	0
56	MG	AA	1628	1/1	0.94	0.64	213,213,213,213	0
56	MG	BA	3395	1/1	0.94	0.75	107,107,107,107	0
56	MG	BA	3396	1/1	0.94	0.34	43,43,43,43	0
56	MG	AA	1708	1/1	0.94	0.23	103,103,103,103	0
56	MG	BA	2970	1/1	0.94	0.25	93,93,93,93	0
56	MG	BA	3714	1/1	0.94	0.12	94,94,94,94	0
56	MG	DA	3096	1/1	0.94	0.31	82,82,82,82	0
56	MG	AA	1731	1/1	0.94	0.14	57,57,57,57	0
56	MG	DA	3581	1/1	0.94	0.32	69,69,69,69	0
56	MG	BA	3551	1/1	0.94	0.26	52,52,52,52	0
56	MG	BA	3625	1/1	0.94	0.38	117,117,117,117	0
56	MG	BA	3400	1/1	0.94	0.19	37,37,37,37	0
56	MG	AA	1980	1/1	0.94	0.66	76,76,76,76	0
56	MG	AA	1856	1/1	0.94	0.46	134,134,134,134	0
56	MG	DA	3431	1/1	0.94	0.27	74,74,74,74	0
56	MG	BA	3207	1/1	0.94	0.19	65,65,65,65	0
56	MG	BA	3556	1/1	0.94	0.63	54,54,54,54	0
56	MG	BA	3483	1/1	0.94	0.13	23,23,23,23	0
56	MG	BA	3558	1/1	0.94	0.23	71,71,71,71	0
56	MG	BB	201	1/1	0.94	0.14	59,59,59,59	0
56	MG	BA	3019	1/1	0.94	0.20	109,109,109,109	0
56	MG	CA	1656	1/1	0.94	0.48	52,52,52,52	0
56	MG	CW	106	1/1	0.94	0.20	59,59,59,59	0
56	MG	AA	1885	1/1	0.94	0.15	61,61,61,61	0
56	MG	CW	108	1/1	0.94	0.37	26,26,26,26	0
56	MG	BA	3311	1/1	0.94	0.40	17,17,17,17	0
56	MG	BA	3562	1/1	0.94	0.34	45,45,45,45	0
56	MG	DA	3446	1/1	0.94	0.16	59,59,59,59	0
56	MG	DA	3614	1/1	0.94	0.29	50,50,50,50	0
56	MG	CA	1745	1/1	0.94	0.20	115,115,115,115	0
56	MG	BA	3210	1/1	0.94	0.10	76,76,76,76	0
56	MG	CW	114	1/1	0.94	0.20	61,61,61,61	0
56	MG	AA	1719	1/1	0.94	0.13	92,92,92,92	0
56	MG	DA	3452	1/1	0.94	0.28	73,73,73,73	0
56	MG	BA	3565	1/1	0.94	0.30	63,63,63,63	0
56	MG	AA	1887	1/1	0.94	0.09	70,70,70,70	0
56	MG	CY	402	1/1	0.94	0.26	44,44,44,44	0
56	MG	DA	3316	1/1	0.94	0.23	49,49,49,49	0
56	MG	CA	1846	1/1	0.94	0.39	101,101,101,101	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3129	1/1	0.94	0.35	104,104,104,104	0
56	MG	AA	1791	1/1	0.94	0.37	59,59,59,59	0
56	MG	BA	3493	1/1	0.94	0.23	61,61,61,61	0
56	MG	DA	3141	1/1	0.94	0.44	15,15,15,15	0
56	MG	BA	3649	1/1	0.94	0.27	104,104,104,104	0
56	MG	DA	3323	1/1	0.94	0.14	42,42,42,42	0
56	MG	DA	3465	1/1	0.94	0.20	60,60,60,60	0
56	MG	AA	1987	1/1	0.94	0.58	121,121,121,121	0
56	MG	AA	1720	1/1	0.94	0.36	86,86,86,86	0
56	MG	DA	3468	1/1	0.94	0.38	33,33,33,33	0
56	MG	AA	1793	1/1	0.94	0.36	127,127,127,127	0
56	MG	CA	1758	1/1	0.94	0.20	40,40,40,40	0
56	MG	DA	3330	1/1	0.94	0.40	36,36,36,36	0
56	MG	BA	2942	1/1	0.94	0.51	37,37,37,37	0
56	MG	BA	3268	1/1	0.94	0.50	102,102,102,102	0
56	MG	DA	3025	1/1	0.94	0.14	30,30,30,30	0
56	MG	DA	3167	1/1	0.94	0.18	13,13,13,13	0
56	MG	BA	3575	1/1	0.94	0.21	63,63,63,63	0
56	MG	AA	1861	1/1	0.94	0.52	42,42,42,42	0
56	MG	DA	3480	1/1	0.94	0.28	42,42,42,42	0
56	MG	DA	3176	1/1	0.94	0.41	13,13,13,13	0
56	MG	BA	3340	1/1	0.94	0.33	31,31,31,31	0
56	MG	DA	2913	1/1	0.94	0.73	70,70,70,70	0
56	MG	AA	1709	1/1	0.94	0.23	71,71,71,71	0
56	MG	BA	3427	1/1	0.94	0.38	35,35,35,35	0
56	MG	DE	301	1/1	0.94	0.29	29,29,29,29	0
56	MG	AA	1893	1/1	0.94	0.52	48,48,48,48	0
56	MG	CA	1679	1/1	0.94	0.19	81,81,81,81	0
56	MG	AA	1927	1/1	0.94	0.17	48,48,48,48	0
56	MG	DA	3345	1/1	0.94	0.24	68,68,68,68	0
56	MG	AA	1795	1/1	0.94	0.08	65,65,65,65	0
56	MG	AW	101	1/1	0.94	0.33	105,105,105,105	0
56	MG	DA	3204	1/1	0.94	0.17	35,35,35,35	0
56	MG	BA	3354	1/1	0.94	0.32	38,38,38,38	0
56	MG	AA	1655	1/1	0.94	0.52	80,80,80,80	0
56	MG	DA	3209	1/1	0.94	0.21	17,17,17,17	0
56	MG	BA	3277	1/1	0.94	0.27	51,51,51,51	0
56	MG	AA	1840	1/1	0.94	1.44	79,79,79,79	0
56	MG	AA	1683	1/1	0.94	0.15	249,249,249,249	0
56	MG	CA	1873	1/1	0.94	0.21	207,207,207,207	0
56	MG	CA	1778	1/1	0.94	0.45	36,36,36,36	0
56	MG	DA	3218	1/1	0.94	0.18	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1799	1/1	0.94	0.78	85,85,85,85	0
56	MG	D5	101	1/1	0.94	0.28	71,71,71,71	0
56	MG	DA	2933	1/1	0.94	0.34	35,35,35,35	0
56	MG	BA	3363	1/1	0.94	0.44	19,19,19,19	0
56	MG	CA	1781	1/1	0.94	0.50	59,59,59,59	0
56	MG	CA	1915	1/1	0.95	0.70	67,67,67,67	0
56	MG	BA	3365	1/1	0.95	0.34	14,14,14,14	0
56	MG	DA	3404	1/1	0.95	0.54	61,61,61,61	0
56	MG	BA	3595	1/1	0.95	0.27	39,39,39,39	0
56	MG	AA	1911	1/1	0.95	0.11	38,38,38,38	0
56	MG	DA	3131	1/1	0.95	0.55	40,40,40,40	0
56	MG	DA	3408	1/1	0.95	0.20	51,51,51,51	0
56	MG	DA	3536	1/1	0.95	0.55	50,50,50,50	0
56	MG	DA	3132	1/1	0.95	0.46	13,13,13,13	0
56	MG	DA	3134	1/1	0.95	0.44	18,18,18,18	0
56	MG	DA	3135	1/1	0.95	0.49	17,17,17,17	0
56	MG	BA	3120	1/1	0.95	0.51	62,62,62,62	0
56	MG	BA	3484	1/1	0.95	0.34	104,104,104,104	0
56	MG	DA	3295	1/1	0.95	0.33	48,48,48,48	0
56	MG	BA	3659	1/1	0.95	0.15	46,46,46,46	0
56	MG	DA	3418	1/1	0.95	0.20	11,11,11,11	0
56	MG	DA	3146	1/1	0.95	0.74	50,50,50,50	0
56	MG	DA	3148	1/1	0.95	0.53	34,34,34,34	0
56	MG	DA	3554	1/1	0.95	0.44	13,13,13,13	0
56	MG	DA	3150	1/1	0.95	0.44	17,17,17,17	0
56	MG	AA	1768	1/1	0.95	0.19	183,183,183,183	0
56	MG	CA	1923	1/1	0.95	0.14	77,77,77,77	0
56	MG	BA	2944	1/1	0.95	0.19	62,62,62,62	0
56	MG	BA	3544	1/1	0.95	0.17	55,55,55,55	0
56	MG	DA	2961	1/1	0.95	0.37	143,143,143,143	0
56	MG	DA	2962	1/1	0.95	0.14	59,59,59,59	0
56	MG	CA	1638	1/1	0.95	0.17	118,118,118,118	0
56	MG	CA	1639	1/1	0.95	0.09	100,100,100,100	0
56	MG	AA	1704	1/1	0.95	0.45	186,186,186,186	0
56	MG	AA	1608	1/1	0.95	0.76	108,108,108,108	0
56	MG	AA	1915	1/1	0.95	0.14	50,50,50,50	0
56	MG	BA	3375	1/1	0.95	0.32	30,30,30,30	0
56	MG	DA	3181	1/1	0.95	0.36	13,13,13,13	0
56	MG	DA	3183	1/1	0.95	0.38	16,16,16,16	0
56	MG	DA	3056	1/1	0.95	0.21	77,77,77,77	0
56	MG	CA	1855	1/1	0.95	0.27	197,197,197,197	0
56	MG	AA	1878	1/1	0.95	0.28	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3193	1/1	0.95	0.08	34,34,34,34	0
56	MG	DA	3194	1/1	0.95	0.10	28,28,28,28	0
56	MG	BA	3090	1/1	0.95	0.43	60,60,60,60	0
56	MG	AA	1982	1/1	0.95	0.14	73,73,73,73	0
56	MG	DA	3199	1/1	0.95	0.53	36,36,36,36	0
56	MG	CA	1713	1/1	0.95	0.19	88,88,88,88	0
56	MG	BA	3379	1/1	0.95	0.39	23,23,23,23	0
56	MG	CA	1787	1/1	0.95	0.28	77,77,77,77	0
56	MG	BA	3028	1/1	0.95	0.48	70,70,70,70	0
56	MG	DA	3206	1/1	0.95	0.42	23,23,23,23	0
56	MG	BA	3029	1/1	0.95	0.27	44,44,44,44	0
56	MG	DA	3593	1/1	0.95	0.15	70,70,70,70	0
56	MG	AA	1749	1/1	0.95	0.29	114,114,114,114	0
56	MG	AA	1662	1/1	0.95	0.27	108,108,108,108	0
56	MG	BA	2905	1/1	0.95	0.35	54,54,54,54	0
56	MG	BB	221	1/1	0.95	0.10	65,65,65,65	0
56	MG	CA	1654	1/1	0.95	0.27	106,106,106,106	0
56	MG	BA	3386	1/1	0.95	0.16	39,39,39,39	0
56	MG	DA	3605	1/1	0.95	0.16	59,59,59,59	0
56	MG	DA	3215	1/1	0.95	0.54	46,46,46,46	0
56	MG	BA	3680	1/1	0.95	0.14	35,35,35,35	0
56	MG	AA	1813	1/1	0.95	0.29	134,134,134,134	0
56	MG	BA	3388	1/1	0.95	0.59	22,22,22,22	0
56	MG	DA	3613	1/1	0.95	0.11	49,49,49,49	0
56	MG	AA	1814	1/1	0.95	0.48	58,58,58,58	0
56	MG	BA	3101	1/1	0.95	0.16	106,106,106,106	0
56	MG	DA	3078	1/1	0.95	0.19	75,75,75,75	0
56	MG	CA	1661	1/1	0.95	0.20	68,68,68,68	0
56	MG	BA	3686	1/1	0.95	0.43	28,28,28,28	0
56	MG	BA	3037	1/1	0.95	0.18	101,101,101,101	0
56	MG	BA	3327	1/1	0.95	0.33	28,28,28,28	0
56	MG	BA	3330	1/1	0.95	0.31	27,27,27,27	0
56	MG	AA	1838	1/1	0.95	0.19	56,56,56,56	0
56	MG	BA	3005	1/1	0.95	0.23	45,45,45,45	0
56	MG	DA	3354	1/1	0.95	0.47	33,33,33,33	0
56	MG	BA	3335	1/1	0.95	0.73	49,49,49,49	0
56	MG	AA	1884	1/1	0.95	0.39	47,47,47,47	0
56	MG	BA	3337	1/1	0.95	0.52	20,20,20,20	0
56	MG	BA	3458	1/1	0.95	0.20	52,52,52,52	0
56	MG	BA	3338	1/1	0.95	0.21	28,28,28,28	0
56	MG	DA	3360	1/1	0.95	0.16	64,64,64,64	0
56	MG	DA	3483	1/1	0.95	0.33	96,96,96,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1773	1/1	0.95	0.49	281,281,281,281	0
56	MG	DA	3245	1/1	0.95	0.48	45,45,45,45	0
56	MG	CA	1814	1/1	0.95	0.25	156,156,156,156	0
56	MG	DA	3247	1/1	0.95	0.19	55,55,55,55	0
56	MG	BA	3633	1/1	0.95	0.48	12,12,12,12	0
56	MG	DA	3249	1/1	0.95	0.48	120,120,120,120	0
56	MG	BA	3461	1/1	0.95	0.50	23,23,23,23	0
56	MG	BA	3108	1/1	0.95	0.38	61,61,61,61	0
56	MG	BA	3637	1/1	0.95	0.15	20,20,20,20	0
56	MG	BA	3342	1/1	0.95	0.20	25,25,25,25	0
56	MG	BA	3706	1/1	0.95	0.46	102,102,102,102	0
56	MG	DA	3099	1/1	0.95	0.07	79,79,79,79	0
56	MG	DA	3012	1/1	0.95	0.34	102,102,102,102	0
56	MG	DA	3374	1/1	0.95	0.29	54,54,54,54	0
56	MG	AA	1659	1/1	0.95	0.23	88,88,88,88	0
56	MG	BA	3009	1/1	0.95	0.18	86,86,86,86	0
56	MG	AA	1904	1/1	0.95	0.42	43,43,43,43	0
56	MG	DA	3378	1/1	0.95	0.37	54,54,54,54	0
56	MG	BA	3253	1/1	0.95	0.13	73,73,73,73	0
56	MG	BA	3528	1/1	0.95	0.54	53,53,53,53	0
56	MG	DA	3018	1/1	0.95	0.08	83,83,83,83	0
56	MG	CA	1685	1/1	0.95	0.18	104,104,104,104	0
56	MG	AA	1869	1/1	0.95	0.56	34,34,34,34	0
56	MG	DA	3022	1/1	0.95	0.21	80,80,80,80	0
56	MG	BA	3047	1/1	0.95	0.30	50,50,50,50	0
56	MG	DA	2939	1/1	0.95	0.63	66,66,66,66	0
56	MG	CA	1829	1/1	0.95	0.68	49,49,49,49	0
56	MG	DA	3115	1/1	0.95	0.16	60,60,60,60	0
56	MG	AY	402	1/1	0.95	0.16	40,40,40,40	0
56	MG	AA	1665	1/1	0.95	0.15	59,59,59,59	0
56	MG	AA	1842	1/1	0.95	0.20	98,98,98,98	0
56	MG	CA	1762	1/1	0.95	0.14	28,28,28,28	0
56	MG	AA	1657	1/1	0.95	0.28	112,112,112,112	0
56	MG	DA	2946	1/1	0.95	0.58	55,55,55,55	0
56	MG	BA	3260	1/1	0.95	0.25	109,109,109,109	0
56	MG	DA	3397	1/1	0.95	0.36	54,54,54,54	0
56	MG	DA	3123	1/1	0.95	0.63	72,72,72,72	0
56	MG	DA	3399	1/1	0.95	0.09	85,85,85,85	0
56	MG	BA	3417	1/1	0.95	0.25	56,56,56,56	0
56	MG	BA	3118	1/1	0.95	0.44	132,132,132,132	0
56	MG	DA	3166	1/1	0.96	0.25	25,25,25,25	0
56	MG	BA	3351	1/1	0.96	0.54	29,29,29,29	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3173	1/1	0.96	0.60	46,46,46,46	0
56	MG	AA	1968	1/1	0.96	0.89	86,86,86,86	0
56	MG	BA	3467	1/1	0.96	0.16	103,103,103,103	0
56	MG	BA	3428	1/1	0.96	0.26	51,51,51,51	0
56	MG	DA	2902	1/1	0.96	0.25	65,65,65,65	0
56	MG	DA	3179	1/1	0.96	0.21	13,13,13,13	0
56	MG	BA	3094	1/1	0.96	0.43	38,38,38,38	0
56	MG	BA	3355	1/1	0.96	0.26	18,18,18,18	0
56	MG	AA	1805	1/1	0.96	0.24	71,71,71,71	0
56	MG	BA	3516	1/1	0.96	0.16	29,29,29,29	0
56	MG	BA	3317	1/1	0.96	0.39	16,16,16,16	0
56	MG	DA	3191	1/1	0.96	0.37	28,28,28,28	0
56	MG	DA	3192	1/1	0.96	0.25	38,38,38,38	0
56	MG	AA	1610	1/1	0.96	0.19	65,65,65,65	0
56	MG	BA	3360	1/1	0.96	0.54	24,24,24,24	0
56	MG	BA	3475	1/1	0.96	0.61	55,55,55,55	0
56	MG	CA	1601	1/1	0.96	0.17	34,34,34,34	0
56	MG	DA	2974	1/1	0.96	0.18	90,90,90,90	0
56	MG	BA	3159	1/1	0.96	0.20	151,151,151,151	0
56	MG	DA	3587	1/1	0.96	0.10	90,90,90,90	0
56	MG	DA	3100	1/1	0.96	0.42	97,97,97,97	0
56	MG	BA	3058	1/1	0.96	0.38	60,60,60,60	0
56	MG	CA	1751	1/1	0.96	0.58	163,163,163,163	0
56	MG	BA	3023	1/1	0.96	0.54	58,58,58,58	0
56	MG	DA	3040	1/1	0.96	0.32	102,102,102,102	0
56	MG	AA	1626	1/1	0.96	0.09	91,91,91,91	0
56	MG	BA	3325	1/1	0.96	0.55	39,39,39,39	0
56	MG	BA	3481	1/1	0.96	0.16	59,59,59,59	0
56	MG	CA	1859	1/1	0.96	0.60	132,132,132,132	0
56	MG	AA	1633	1/1	0.96	0.16	45,45,45,45	0
56	MG	DA	3488	1/1	0.96	0.07	70,70,70,70	0
56	MG	DA	2984	1/1	0.96	0.26	34,34,34,34	0
56	MG	DA	3606	1/1	0.96	0.17	54,54,54,54	0
56	MG	DA	3607	1/1	0.96	0.19	30,30,30,30	0
56	MG	DA	3394	1/1	0.96	0.28	49,49,49,49	0
56	MG	DA	3111	1/1	0.96	0.28	84,84,84,84	0
56	MG	CA	1609	1/1	0.96	0.19	100,100,100,100	0
56	MG	DA	2923	1/1	0.96	0.15	28,28,28,28	0
56	MG	CA	1759	1/1	0.96	0.41	65,65,65,65	0
56	MG	DA	2925	1/1	0.96	0.55	80,80,80,80	0
56	MG	DA	3311	1/1	0.96	0.30	54,54,54,54	0
56	MG	BA	3044	1/1	0.96	0.35	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3617	1/1	0.96	0.18	46,46,46,46	0
56	MG	DA	3314	1/1	0.96	0.36	65,65,65,65	0
56	MG	DA	2927	1/1	0.96	0.30	91,91,91,91	0
56	MG	BA	3402	1/1	0.96	0.33	37,37,37,37	0
56	MG	DA	3225	1/1	0.96	0.39	59,59,59,59	0
56	MG	BA	3274	1/1	0.96	0.12	105,105,105,105	0
56	MG	AA	1844	1/1	0.96	0.26	78,78,78,78	0
56	MG	BA	3673	1/1	0.96	0.24	133,133,133,133	0
56	MG	DA	3409	1/1	0.96	0.32	102,102,102,102	0
56	MG	DA	3506	1/1	0.96	0.20	53,53,53,53	0
56	MG	DA	3229	1/1	0.96	0.28	37,37,37,37	0
56	MG	BA	3445	1/1	0.96	0.16	19,19,19,19	0
56	MG	DA	3232	1/1	0.96	0.61	48,48,48,48	0
56	MG	DA	3324	1/1	0.96	0.48	13,13,13,13	0
56	MG	AA	1974	1/1	0.96	0.20	48,48,48,48	0
56	MG	DA	3235	1/1	0.96	0.59	41,41,41,41	0
56	MG	BA	3334	1/1	0.96	0.35	65,65,65,65	0
56	MG	BA	3490	1/1	0.96	0.22	45,45,45,45	0
56	MG	DA	3126	1/1	0.96	0.71	65,65,65,65	0
56	MG	BA	2938	1/1	0.96	0.21	81,81,81,81	0
56	MG	BA	3374	1/1	0.96	0.24	30,30,30,30	0
56	MG	BA	3030	1/1	0.96	0.45	64,64,64,64	0
56	MG	AA	1905	1/1	0.96	0.19	59,59,59,59	0
56	MG	BA	3452	1/1	0.96	0.67	53,53,53,53	0
56	MG	AW	117	1/1	0.96	0.14	68,68,68,68	0
56	MG	DA	3133	1/1	0.96	0.36	20,20,20,20	0
56	MG	BA	2914	1/1	0.96	0.32	122,122,122,122	0
56	MG	BA	3498	1/1	0.96	0.07	67,67,67,67	0
56	MG	DA	3137	1/1	0.96	0.29	23,23,23,23	0
56	MG	DB	216	1/1	0.96	0.09	51,51,51,51	0
56	MG	AA	1693	1/1	0.96	0.33	74,74,74,74	0
56	MG	DA	3140	1/1	0.96	0.41	11,11,11,11	0
56	MG	DA	3253	1/1	0.96	0.36	30,30,30,30	0
56	MG	DA	3254	1/1	0.96	0.31	50,50,50,50	0
56	MG	AA	1788	1/1	0.96	0.28	175,175,175,175	0
56	MG	BA	3072	1/1	0.96	0.17	88,88,88,88	0
56	MG	DA	3347	1/1	0.96	0.21	23,23,23,23	0
56	MG	CW	109	1/1	0.96	0.08	49,49,49,49	0
56	MG	DA	3438	1/1	0.96	0.28	73,73,73,73	0
56	MG	DA	3147	1/1	0.96	0.23	20,20,20,20	0
56	MG	BA	3418	1/1	0.96	0.20	27,27,27,27	0
56	MG	DN	201	1/1	0.96	0.14	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3540	1/1	0.96	0.20	85,85,85,85	0
56	MG	CA	1832	1/1	0.96	0.19	65,65,65,65	0
56	MG	DA	3442	1/1	0.96	0.40	64,64,64,64	0
56	MG	DA	3152	1/1	0.96	0.39	23,23,23,23	0
56	MG	DA	3153	1/1	0.96	0.48	22,22,22,22	0
56	MG	BA	3285	1/1	0.96	0.24	66,66,66,66	0
56	MG	BA	3694	1/1	0.96	0.15	35,35,35,35	0
56	MG	AA	1818	1/1	0.96	0.16	44,44,44,44	0
56	MG	CA	1889	1/1	0.96	0.06	92,92,92,92	0
56	MG	DA	3555	1/1	0.96	0.28	14,14,14,14	0
56	MG	DA	3556	1/1	0.96	0.23	19,19,19,19	0
56	MG	BA	3347	1/1	0.96	0.23	27,27,27,27	0
56	MG	DA	3558	1/1	0.96	0.34	14,14,14,14	0
56	MG	BA	3463	1/1	0.96	0.30	106,106,106,106	0
56	MG	BA	3349	1/1	0.96	0.39	43,43,43,43	0
56	MG	DA	3165	1/1	0.96	0.47	25,25,25,25	0
57	ZN	CN	101	1/1	0.96	0.15	111,111,111,111	0
56	MG	BA	3518	1/1	0.97	0.25	27,27,27,27	0
56	MG	CA	1632	1/1	0.97	0.17	84,84,84,84	0
56	MG	DA	3021	1/1	0.97	0.48	66,66,66,66	0
56	MG	BD	301	1/1	0.97	0.23	15,15,15,15	0
56	MG	BA	3705	1/1	0.97	0.12	62,62,62,62	0
56	MG	BA	3453	1/1	0.97	0.47	40,40,40,40	0
56	MG	AA	1849	1/1	0.97	0.12	95,95,95,95	0
56	MG	BA	2978	1/1	0.97	0.67	72,72,72,72	0
56	MG	DA	3597	1/1	0.97	0.41	22,22,22,22	0
56	MG	DA	3214	1/1	0.97	0.39	22,22,22,22	0
56	MG	BX	101	1/1	0.97	0.12	55,55,55,55	0
56	MG	BA	3424	1/1	0.97	0.13	32,32,32,32	0
56	MG	DA	3603	1/1	0.97	0.09	17,17,17,17	0
56	MG	DA	3217	1/1	0.97	0.40	24,24,24,24	0
56	MG	DA	3136	1/1	0.97	0.45	12,12,12,12	0
56	MG	AA	1798	1/1	0.97	0.17	47,47,47,47	0
56	MG	BA	2980	1/1	0.97	0.25	74,74,74,74	0
56	MG	DA	3608	1/1	0.97	0.57	50,50,50,50	0
56	MG	CA	1830	1/1	0.97	0.15	80,80,80,80	0
56	MG	DA	2928	1/1	0.97	0.20	55,55,55,55	0
56	MG	BA	3214	1/1	0.97	0.23	85,85,85,85	0
56	MG	AA	1919	1/1	0.97	0.56	47,47,47,47	0
56	MG	BA	3631	1/1	0.97	0.34	8,8,8,8	0
56	MG	BA	3632	1/1	0.97	0.39	15,15,15,15	0
56	MG	BA	3015	1/1	0.97	0.33	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	AA	1976	1/1	0.97	0.09	60,60,60,60	0
56	MG	DA	2935	1/1	0.97	0.14	89,89,89,89	0
56	MG	DA	3231	1/1	0.97	0.42	32,32,32,32	0
56	MG	DA	3154	1/1	0.97	0.28	12,12,12,12	0
56	MG	BA	3339	1/1	0.97	0.28	26,26,26,26	0
56	MG	DA	3234	1/1	0.97	0.13	31,31,31,31	0
56	MG	DA	3157	1/1	0.97	0.21	23,23,23,23	0
56	MG	DA	3236	1/1	0.97	0.64	30,30,30,30	0
56	MG	BA	3636	1/1	0.97	0.47	28,28,28,28	0
56	MG	AA	1664	1/1	0.97	0.30	64,64,64,64	0
56	MG	AA	1978	1/1	0.97	0.30	129,129,129,129	0
56	MG	DA	3534	1/1	0.97	0.52	70,70,70,70	0
56	MG	DA	3240	1/1	0.97	0.14	35,35,35,35	0
56	MG	BA	3566	1/1	0.97	0.14	63,63,63,63	0
56	MG	AA	1877	1/1	0.97	0.49	37,37,37,37	0
56	MG	AA	1943	1/1	0.97	0.13	45,45,45,45	0
56	MG	BA	3642	1/1	0.97	0.35	34,34,34,34	0
56	MG	BA	3312	1/1	0.97	0.52	20,20,20,20	0
56	MG	BA	3021	1/1	0.97	0.13	111,111,111,111	0
56	MG	DA	3464	1/1	0.97	0.60	42,42,42,42	0
56	MG	DA	3168	1/1	0.97	0.40	33,33,33,33	0
56	MG	DA	3172	1/1	0.97	0.58	24,24,24,24	0
56	MG	DA	3545	1/1	0.97	0.19	91,91,91,91	0
56	MG	BA	3314	1/1	0.97	0.49	13,13,13,13	0
56	MG	AA	1902	1/1	0.97	0.22	33,33,33,33	0
56	MG	BA	3100	1/1	0.97	0.22	70,70,70,70	0
56	MG	DA	3550	1/1	0.97	0.39	18,18,18,18	0
56	MG	DA	3553	1/1	0.97	0.45	21,21,21,21	0
56	MG	BA	3352	1/1	0.97	0.25	17,17,17,17	0
56	MG	DA	3177	1/1	0.97	0.31	21,21,21,21	0
56	MG	AA	1870	1/1	0.97	0.42	73,73,73,73	0
56	MG	DA	3328	1/1	0.97	0.52	48,48,48,48	0
56	MG	BA	3692	1/1	0.97	0.36	56,56,56,56	0
56	MG	DA	3180	1/1	0.97	0.45	37,37,37,37	0
56	MG	DA	3476	1/1	0.97	0.31	73,73,73,73	0
56	MG	DA	3561	1/1	0.97	0.18	16,16,16,16	0
56	MG	AA	1735	1/1	0.97	0.36	52,52,52,52	0
56	MG	DA	3182	1/1	0.97	0.50	24,24,24,24	0
56	MG	DA	3479	1/1	0.97	0.12	55,55,55,55	0
56	MG	BA	3184	1/1	0.97	0.29	37,37,37,37	0
56	MG	BA	3578	1/1	0.97	0.27	32,32,32,32	0
56	MG	DA	2904	1/1	0.97	0.60	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3025	1/1	0.97	0.30	66,66,66,66	0
56	MG	AA	1601	1/1	0.97	0.36	92,92,92,92	0
56	MG	CA	1623	1/1	0.97	0.17	43,43,43,43	0
56	MG	DA	3410	1/1	0.97	0.15	22,22,22,22	0
56	MG	DA	3572	1/1	0.97	0.12	51,51,51,51	0
56	MG	BA	3416	1/1	0.97	0.42	42,42,42,42	0
56	MG	AA	1694	1/1	0.97	0.28	165,165,165,165	0
56	MG	AA	1960	1/1	0.97	0.24	48,48,48,48	0
56	MG	DA	3197	1/1	0.97	0.22	21,21,21,21	0
56	MG	BB	219	1/1	0.97	0.30	33,33,33,33	0
56	MG	BA	3328	1/1	0.97	0.57	35,35,35,35	0
56	MG	DA	3580	1/1	0.97	0.49	79,79,79,79	0
56	MG	DA	3069	1/1	0.97	0.23	32,32,32,32	0
56	MG	CA	1721	1/1	0.97	0.12	74,74,74,74	0
56	MG	DA	3202	1/1	0.97	0.40	25,25,25,25	0
56	MG	BA	3420	1/1	0.97	0.39	34,34,34,34	0
56	MG	DA	3277	1/1	0.97	0.38	45,45,45,45	0
56	MG	BA	3421	1/1	0.97	0.21	79,79,79,79	0
56	MG	AA	1906	1/1	0.98	0.70	38,38,38,38	0
56	MG	BA	2990	1/1	0.98	0.12	47,47,47,47	0
56	MG	DA	3143	1/1	0.98	0.48	19,19,19,19	0
56	MG	DA	3144	1/1	0.98	0.41	14,14,14,14	0
56	MG	BA	3667	1/1	0.98	0.37	52,52,52,52	0
56	MG	DA	3628	1/1	0.98	0.21	295,295,295,295	0
56	MG	BB	207	1/1	0.98	0.14	84,84,84,84	0
56	MG	BA	3357	1/1	0.98	0.17	64,64,64,64	0
56	MG	DA	3265	1/1	0.98	0.15	40,40,40,40	0
56	MG	DA	3184	1/1	0.98	0.38	14,14,14,14	0
56	MG	DA	3185	1/1	0.98	0.17	12,12,12,12	0
56	MG	DA	3186	1/1	0.98	0.18	51,51,51,51	0
56	MG	DA	3187	1/1	0.98	0.27	32,32,32,32	0
56	MG	BA	3319	1/1	0.98	0.41	19,19,19,19	0
56	MG	DA	3313	1/1	0.98	0.39	12,12,12,12	0
56	MG	DA	3149	1/1	0.98	0.41	22,22,22,22	0
56	MG	BA	3320	1/1	0.98	0.39	23,23,23,23	0
56	MG	BA	3345	1/1	0.98	0.29	20,20,20,20	0
56	MG	DA	3274	1/1	0.98	0.36	45,45,45,45	0
56	MG	BA	3545	1/1	0.98	0.51	245,245,245,245	0
56	MG	DA	3588	1/1	0.98	0.26	24,24,24,24	0
56	MG	B3	101	1/1	0.98	0.43	26,26,26,26	0
56	MG	DA	3155	1/1	0.98	0.39	18,18,18,18	0
56	MG	DA	3450	1/1	0.98	0.15	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	DA	3195	1/1	0.98	0.17	20,20,20,20	0
56	MG	AA	1810	1/1	0.98	0.06	87,87,87,87	0
56	MG	DA	2971	1/1	0.98	0.15	132,132,132,132	0
56	MG	AA	1647	1/1	0.98	0.21	34,34,34,34	0
56	MG	DA	3596	1/1	0.98	0.43	15,15,15,15	0
56	MG	BA	3410	1/1	0.98	0.10	25,25,25,25	0
56	MG	DA	3598	1/1	0.98	0.36	12,12,12,12	0
56	MG	DA	3599	1/1	0.98	0.31	14,14,14,14	0
56	MG	CA	1878	1/1	0.98	0.35	66,66,66,66	0
56	MG	BA	3033	1/1	0.98	0.24	78,78,78,78	0
56	MG	BA	3350	1/1	0.98	0.38	28,28,28,28	0
56	MG	DA	3549	1/1	0.98	0.34	16,16,16,16	0
56	MG	DA	3163	1/1	0.98	0.29	31,31,31,31	0
56	MG	DA	3551	1/1	0.98	0.38	13,13,13,13	0
56	MG	DA	3552	1/1	0.98	0.50	19,19,19,19	0
56	MG	BA	3678	1/1	0.98	0.30	20,20,20,20	0
56	MG	DA	3205	1/1	0.98	0.24	36,36,36,36	0
56	MG	DA	3053	1/1	0.98	0.12	61,61,61,61	0
56	MG	BA	3104	1/1	0.98	0.15	120,120,120,120	0
56	MG	BA	3381	1/1	0.98	0.34	17,17,17,17	0
56	MG	DA	3509	1/1	0.98	0.22	142,142,142,142	0
56	MG	BA	3243	1/1	0.98	0.25	149,149,149,149	0
56	MG	DA	3170	1/1	0.98	0.11	12,12,12,12	0
56	MG	DA	3171	1/1	0.98	0.23	25,25,25,25	0
56	MG	DA	3513	1/1	0.98	0.20	34,34,34,34	0
56	MG	BA	3315	1/1	0.98	0.19	17,17,17,17	0
56	MG	BA	3368	1/1	0.98	0.28	25,25,25,25	0
56	MG	BA	3684	1/1	0.98	0.29	47,47,47,47	0
56	MG	D5	103	1/1	0.98	0.33	61,61,61,61	0
56	MG	DA	3620	1/1	0.98	0.48	50,50,50,50	0
56	MG	DA	3138	1/1	0.98	0.36	12,12,12,12	0
57	ZN	CD	301	1/1	0.98	0.34	109,109,109,109	0
56	MG	BA	3316	1/1	0.98	0.15	26,26,26,26	0
56	MG	DA	3151	1/1	0.99	0.22	12,12,12,12	0
56	MG	CA	1757	1/1	0.99	0.45	43,43,43,43	0
56	MG	DA	3222	1/1	0.99	0.35	17,17,17,17	0
56	MG	DA	3575	1/1	0.99	0.10	49,49,49,49	0
56	MG	BA	3329	1/1	0.99	0.46	19,19,19,19	0
56	MG	BA	3333	1/1	0.99	0.42	12,12,12,12	0
56	MG	AA	1928	1/1	0.99	0.08	67,67,67,67	0
56	MG	BA	3502	1/1	0.99	0.23	26,26,26,26	0
56	MG	BA	3250	1/1	0.99	0.17	269,269,269,269	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
56	MG	BA	3348	1/1	0.99	0.43	25,25,25,25	0
57	ZN	AD	301	1/1	0.99	0.29	71,71,71,71	0
57	ZN	AN	101	1/1	0.99	0.17	115,115,115,115	0
56	MG	DA	3142	1/1	0.99	0.42	30,30,30,30	0
56	MG	DA	3169	1/1	0.99	0.31	33,33,33,33	0

6.5 Other polymers (i)

There are no such residues in this entry.