wwPDB X-ray Structure Validation Summary Report (i)

Nov 29, 2022 – 09:03 pm GMT

PDB ID	:	5TGM
Title	:	Crystal structure of the S.cerevisiae 80S ribosome in complex with the A-site bound aminoacyl-tRNA analog ACCA-Pro
Authors	:	Melnikov, S.; Mailliot, J.; Yusupov, M.
Deposited on	:	2016-09-28
Resolution	:	3.50 Å(reported)

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

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/XrayValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

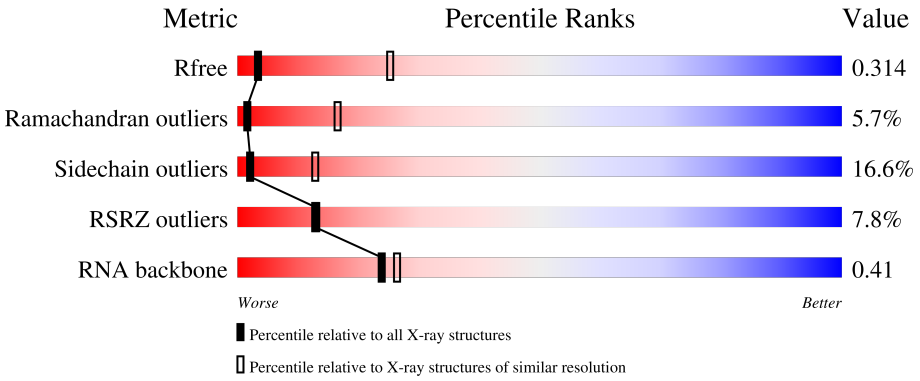
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.31.3
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0267
CCP4	:	7.1.010 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.31.3

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 3.50 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	130704	1659 (3.60-3.40)
Ramachandran outliers	138981	1005 (3.58-3.42)
Sidechain outliers	138945	1006 (3.58-3.42)
RSRZ outliers	127900	1559 (3.60-3.40)
RNA backbone	3102	1002 (4.00-3.00)

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	2	1812	8% 17% 61% 20%
2	S0	206	30% 83% 16%
2	s0	206	9% 78% 20%
3	S1	216	8% 74% 24%
3	s1	216	6% 74% 23%

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Mol	Chain	Length	Quality of chain
4	S2	217	31% 85% 13%
4	s2	217	15% 76% 22%
5	S3	223	30% 85% 14%
5	s3	223	36% 82% 17%
6	S4	260	12% 79% 19%
6	s4	260	3% 80% 20%
7	S5	206	28% 84% 14%
7	s5	206	20% 84% 15%
8	S6	226	19% 79% 19%
8	s6	226	18% 76% 18%
9	S7	186	8% 83% 15%
9	s7	186	4% 81% 17%
10	S8	199	18% 79% 13% 6%
10	s8	199	10% 79% 15% 6%
11	S9	185	19% 84% 14%
11	s9	185	2% 82% 17%
12	C0	105	9% 74% 16% 9%
12	c0	105	24% 72% 14% 5% 9%
13	C1	156	27% 85% 15%
13	c1	156	6% 78% 16% 6%
14	C2	143	30% 67% 18% 13%
14	c2	143	24% 67% 19% 13%
15	C3	150	6% 79% 19%
15	c3	150	3% 83% 14%
16	C4	128	9% 82% 14%

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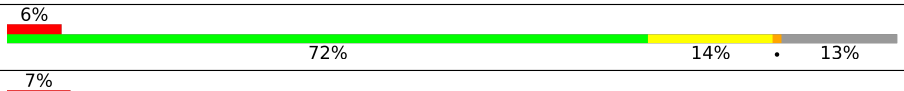
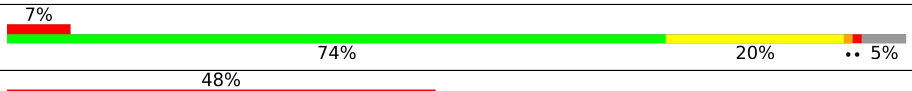
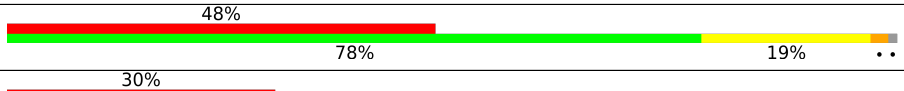
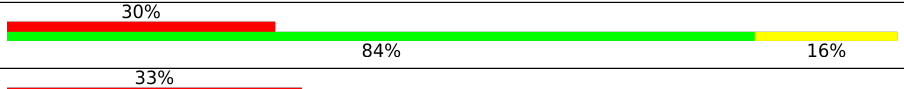
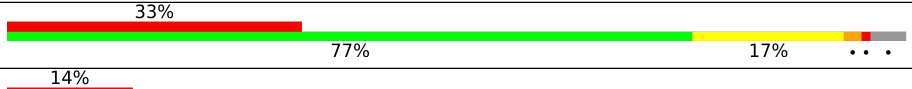
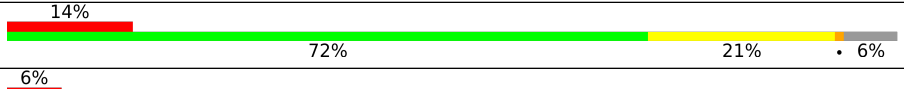
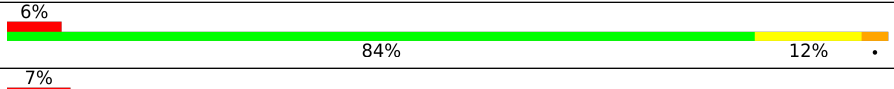
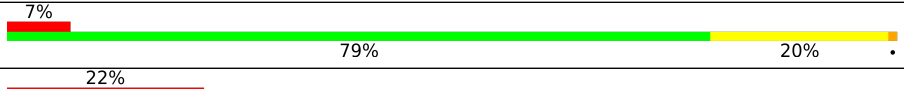
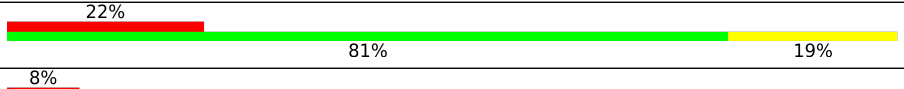
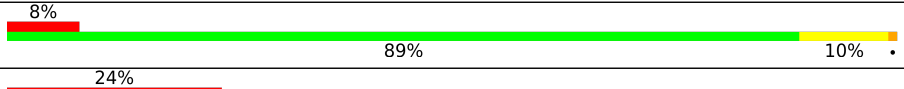
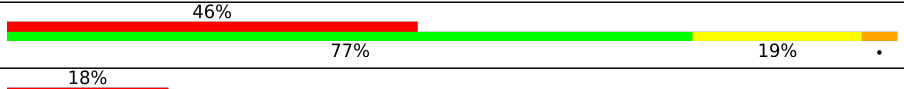
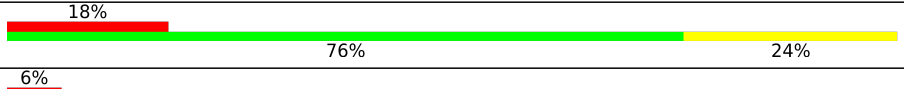
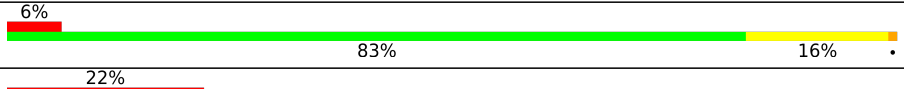
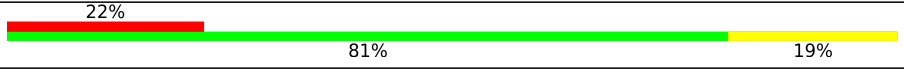
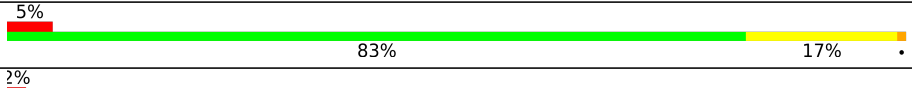
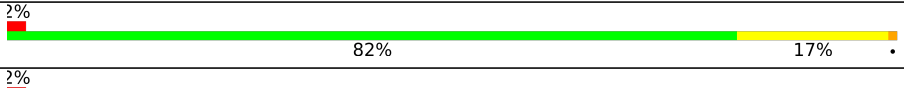
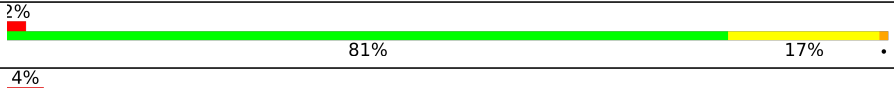
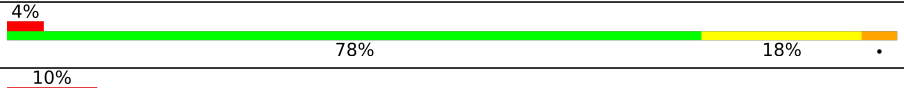
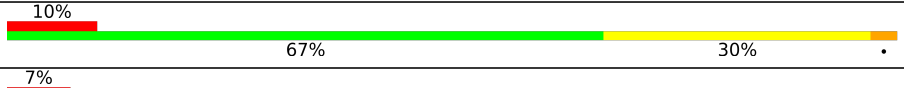
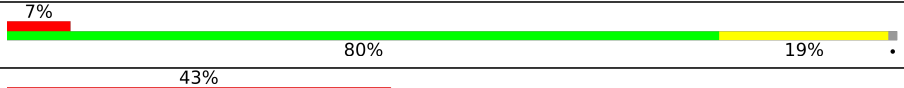
Mol	Chain	Length	Quality of chain
16	c4	128	
17	C5	142	
17	c5	142	
18	C6	142	
18	c6	142	
19	C7	125	
19	c7	125	
20	C8	145	
20	c8	145	
21	C9	143	
21	c9	143	
22	D0	110	
22	d0	110	
23	D1	87	
23	d1	87	
24	D2	129	
24	d2	129	
25	D3	144	
25	d3	144	
26	D4	134	
26	d4	134	
27	D5	70	
27	d5	70	
28	D6	97	
28	d6	97	

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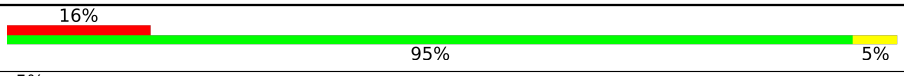
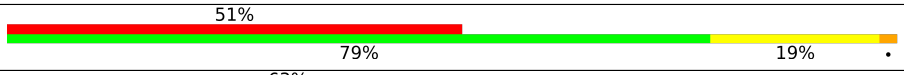
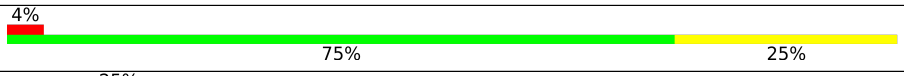
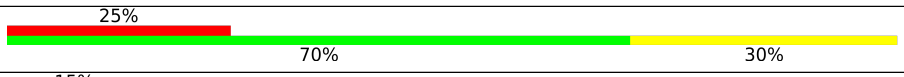
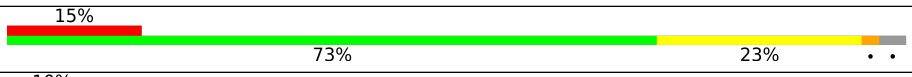
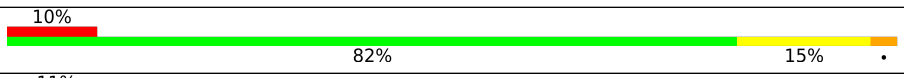
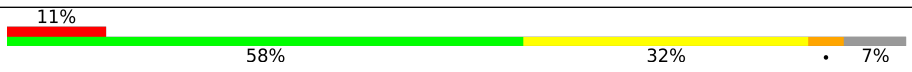
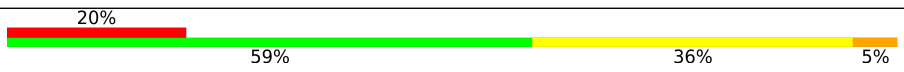
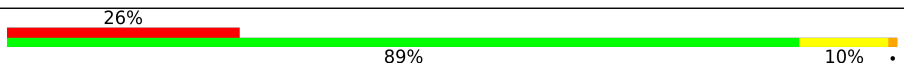
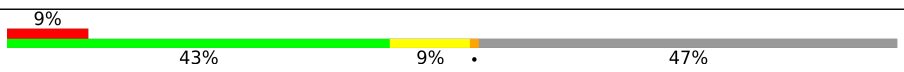
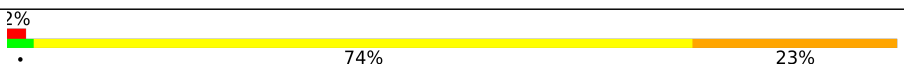
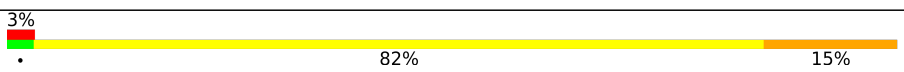
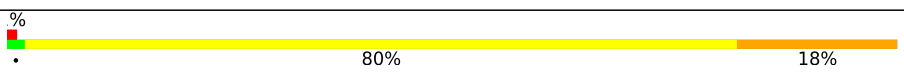
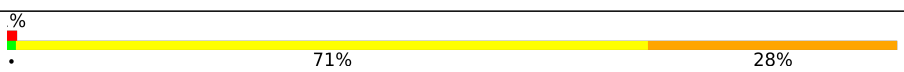
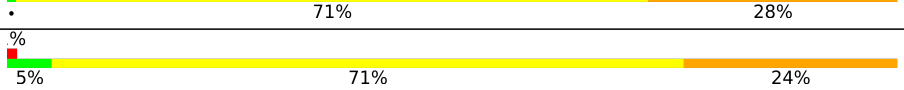
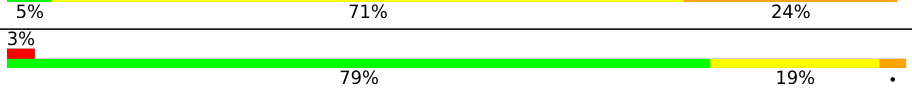
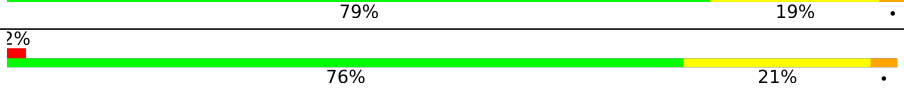
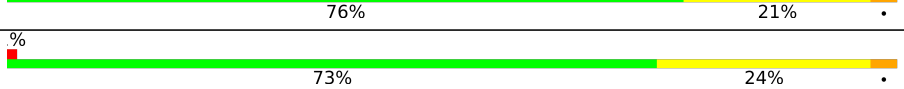
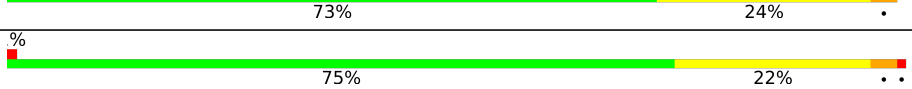
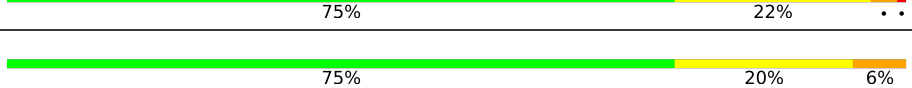
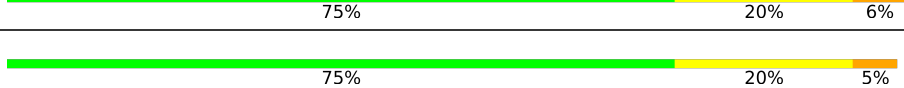
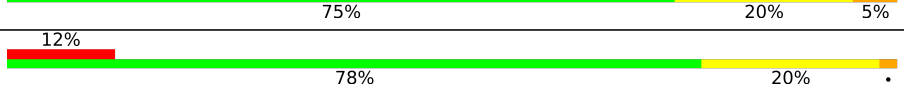
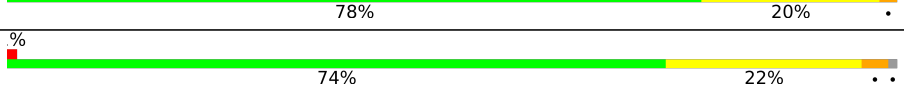
Mol	Chain	Length	Quality of chain
29	D7	81	
29	d7	81	
30	D8	63	
30	d8	63	
31	D9	53	
31	d9	53	
32	E0	62	
32	e0	62	
33	E1	76	
33	e1	76	
34	SR	318	
35	SM	299	
36	1	3149	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	252	
39	l2	252	
40	L3	386	
40	l3	386	
41	L4	361	
41	l4	361	
42	L5	296	
42	l5	296	

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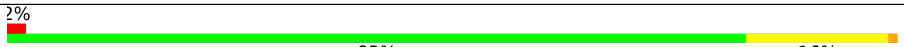
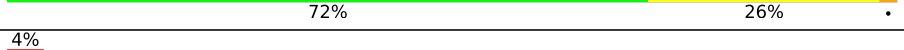
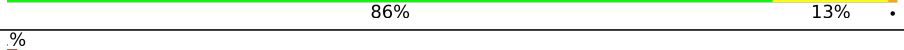
Mol	Chain	Length	Quality of chain
43	L6	175	
43	l6	175	
44	L7	223	
44	l7	223	
45	L8	233	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	169	
48	m1	169	
49	M3	194	
49	m3	194	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	197	
52	m6	197	
53	M7	183	
53	m7	183	
54	M8	185	
54	m8	185	
55	M9	188	
55	m9	188	

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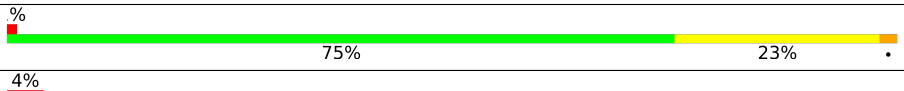
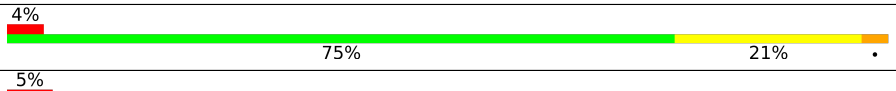
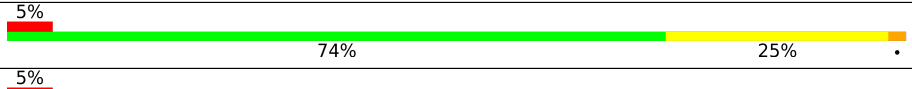
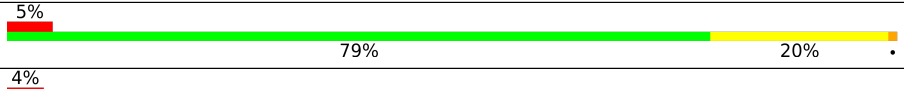
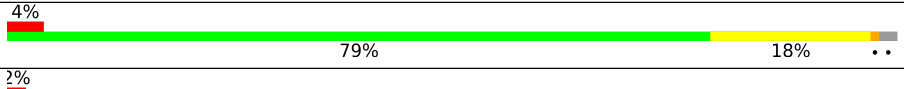
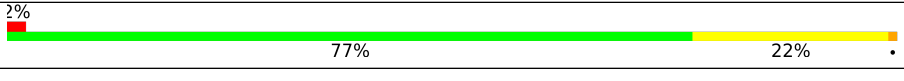
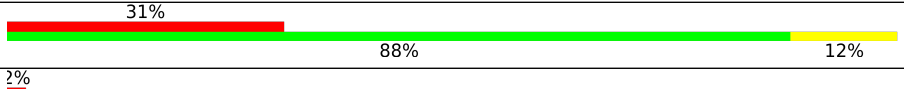
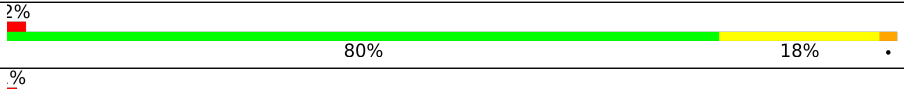
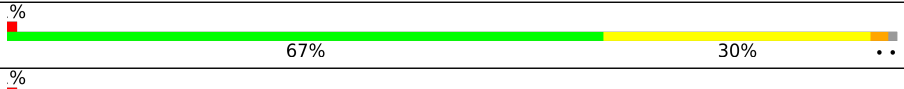
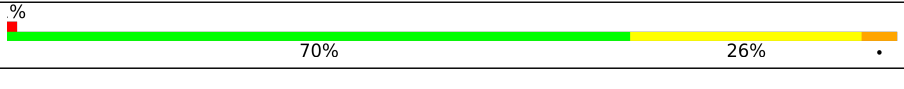
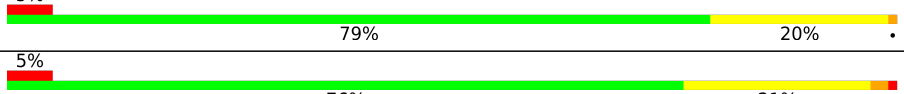
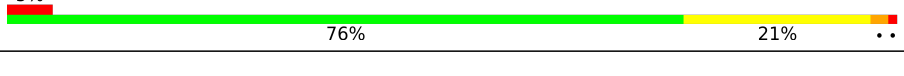
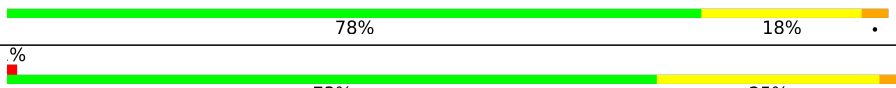
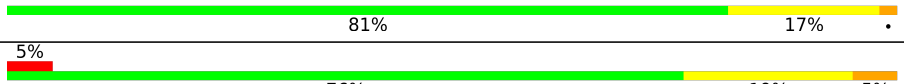
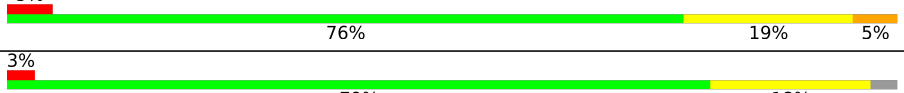
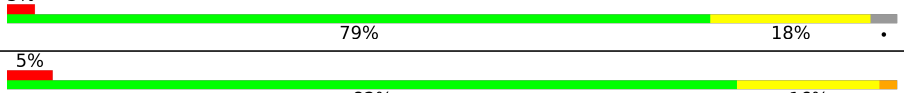
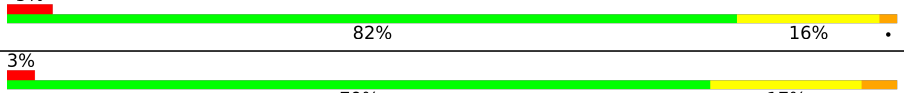
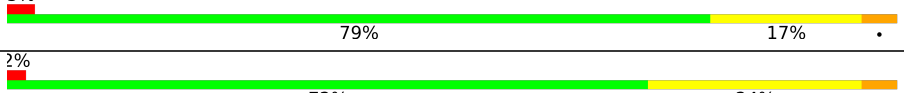
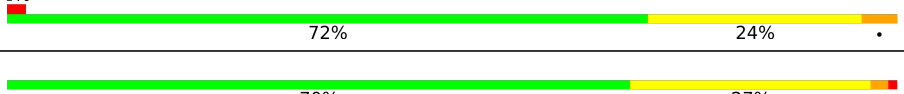
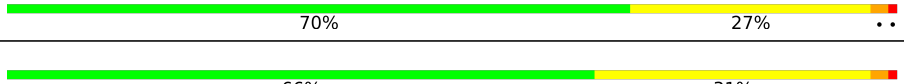
Mol	Chain	Length	Quality of chain
56	N0	172	
56	n0	172	
57	N1	159	
57	n1	159	
58	N2	100	
58	n2	100	
59	N3	136	
59	n3	136	
60	N4	98	
61	N5	121	
61	n5	121	
62	N6	126	
62	n6	126	
63	N7	135	
63	n7	135	
64	N8	148	
64	n8	148	
65	N9	58	
65	n9	58	
66	O0	100	
66	o0	100	
67	O1	109	
67	o1	109	
68	O2	127	
68	o2	127	

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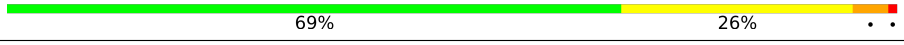
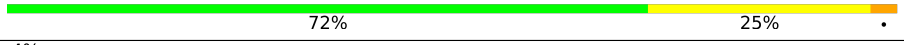
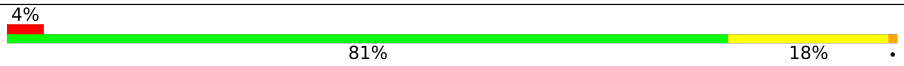
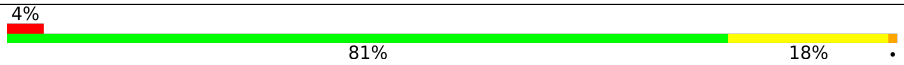
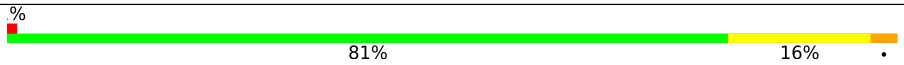
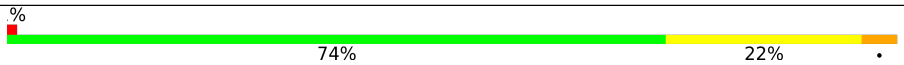
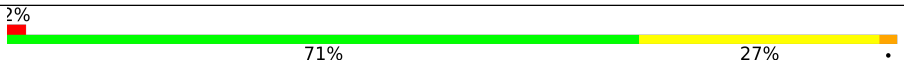
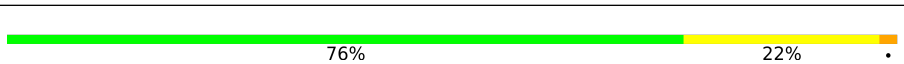
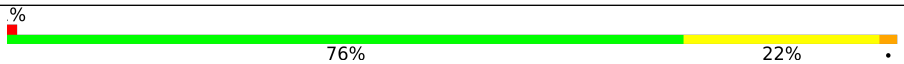
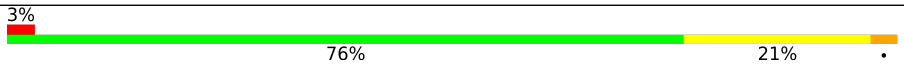
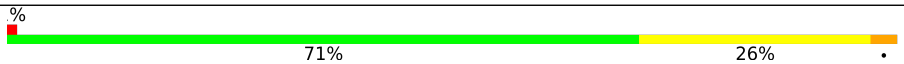
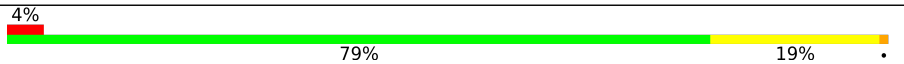
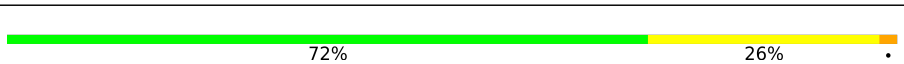
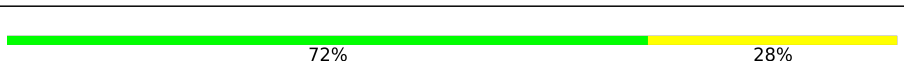
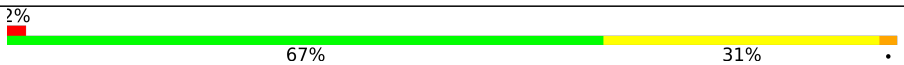
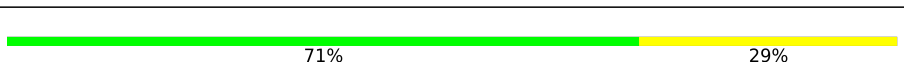
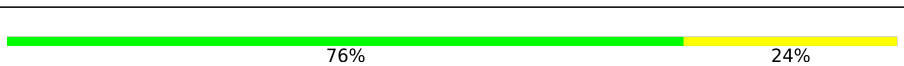
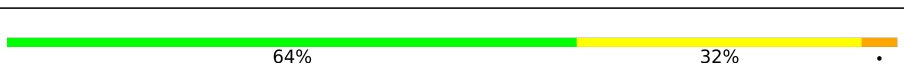
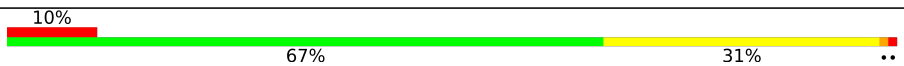
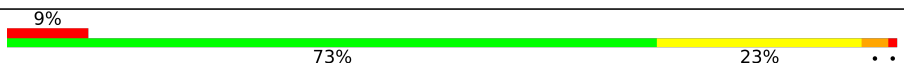
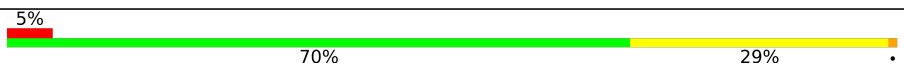
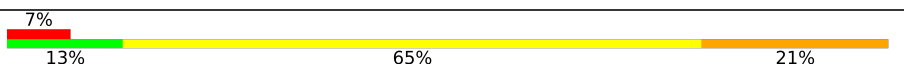
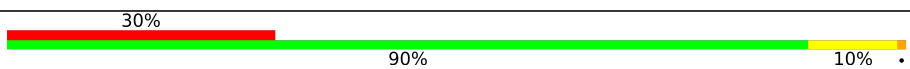
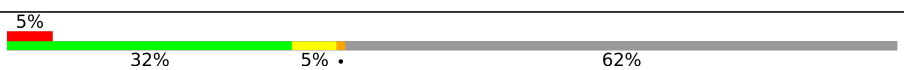
Mol	Chain	Length	Quality of chain
69	O3	106	
69	o3	106	
70	O4	112	
70	o4	112	
71	O5	119	
71	o5	119	
72	O6	99	
72	o6	99	
73	O7	87	
73	o7	87	
74	O8	77	
74	o8	77	
75	O9	50	
75	o9	50	
76	Q0	52	
76	q0	52	
77	Q1	25	
77	q1	25	
78	Q2	105	
78	q2	105	
79	Q3	91	
79	q3	91	
80	6	1800	
81	sR	318	
82	sM	273	

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Mol	Chain	Length	Quality of chain
83	5	3150	2% 73% 24%
84	l8	256	4% 71% 18% 10%
85	m2	165	18% 73% 15% 9%
86	n4	135	24% 79% 19%
87	p0	312	10% 39% 6% 54%
88	p1	128	13% 32% 63%
88	p2	128	15% 30% 5% 64%
89	P	4	50% 50%
89	p	4	50% 50%

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
91	MG	1	3732	-	-	-	X
91	MG	1	3735	-	-	-	X
91	MG	1	3743	-	-	-	X
91	MG	1	3764	-	-	-	X
91	MG	1	3773	-	-	-	X
91	MG	1	3782	-	-	-	X
91	MG	1	3785	-	-	-	X
91	MG	1	3817	-	-	-	X
91	MG	1	3831	-	-	-	X
91	MG	1	3847	-	-	-	X
91	MG	1	3854	-	-	-	X
91	MG	1	3873	-	-	-	X
91	MG	1	3914	-	-	-	X
91	MG	1	3932	-	-	-	X
91	MG	1	3944	-	-	-	X
91	MG	1	3946	-	-	-	X
91	MG	1	3963	-	-	-	X
91	MG	1	3964	-	-	-	X
91	MG	1	3976	-	-	-	X
91	MG	1	3984	-	-	-	X
91	MG	1	3989	-	-	-	X
91	MG	1	4000	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
91	MG	1	4008	-	-	-	X
91	MG	1	4012	-	-	-	X
91	MG	1	4024	-	-	-	X
91	MG	1	4031	-	-	-	X
91	MG	1	4042	-	-	-	X
91	MG	1	4052	-	-	-	X
91	MG	1	4053	-	-	-	X
91	MG	1	4063	-	-	-	X
91	MG	1	4077	-	-	-	X
91	MG	1	4079	-	-	-	X
91	MG	1	4093	-	-	-	X
91	MG	2	2061	-	-	-	X
91	MG	2	2068	-	-	-	X
91	MG	2	2070	-	-	-	X
91	MG	2	2076	-	-	-	X
91	MG	2	2078	-	-	-	X
91	MG	2	2084	-	-	-	X
91	MG	2	2089	-	-	-	X
91	MG	2	2092	-	-	-	X
91	MG	2	2094	-	-	-	X
91	MG	2	2101	-	-	-	X
91	MG	2	2110	-	-	-	X
91	MG	2	2112	-	-	-	X
91	MG	2	2114	-	-	-	X
91	MG	2	2117	-	-	-	X
91	MG	2	2118	-	-	-	X
91	MG	2	2132	-	-	-	X
91	MG	2	2138	-	-	-	X
91	MG	2	2141	-	-	-	X
91	MG	5	3754	-	-	-	X
91	MG	5	3763	-	-	-	X
91	MG	5	3789	-	-	-	X
91	MG	5	3792	-	-	-	X
91	MG	5	3809	-	-	-	X
91	MG	5	3831	-	-	-	X
91	MG	5	3838	-	-	-	X
91	MG	5	3860	-	-	-	X
91	MG	5	3874	-	-	-	X
91	MG	5	3895	-	-	-	X
91	MG	5	3943	-	-	-	X
91	MG	5	3948	-	-	-	X
91	MG	5	3969	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
91	MG	5	3985	-	-	-	X
91	MG	5	3988	-	-	-	X
91	MG	5	4007	-	-	-	X
91	MG	5	4019	-	-	-	X
91	MG	5	4021	-	-	-	X
91	MG	5	4037	-	-	-	X
91	MG	5	4048	-	-	-	X
91	MG	5	4062	-	-	-	X
91	MG	5	4065	-	-	-	X
91	MG	5	4084	-	-	-	X
91	MG	5	4086	-	-	-	X
91	MG	5	4097	-	-	-	X
91	MG	5	4102	-	-	-	X
91	MG	5	4107	-	-	-	X
91	MG	5	4112	-	-	-	X
91	MG	5	4122	-	-	-	X
91	MG	5	4126	-	-	-	X
91	MG	5	4132	-	-	-	X
91	MG	5	4153	-	-	-	X
91	MG	5	4168	-	-	-	X
91	MG	5	4171	-	-	-	X
91	MG	6	2062	-	-	-	X
91	MG	6	2064	-	-	-	X
91	MG	6	2067	-	-	-	X
91	MG	6	2073	-	-	-	X
91	MG	6	2080	-	-	-	X
91	MG	6	2091	-	-	-	X
91	MG	6	2093	-	-	-	X
91	MG	6	2098	-	-	-	X
91	MG	6	2102	-	-	-	X
91	MG	6	2105	-	-	-	X
91	MG	6	2106	-	-	-	X
91	MG	6	2108	-	-	-	X
91	MG	6	2111	-	-	-	X
91	MG	6	2114	-	-	-	X
91	MG	6	2120	-	-	-	X
91	MG	6	2125	-	-	-	X
91	MG	6	2129	-	-	-	X
91	MG	6	2130	-	-	-	X
91	MG	6	2133	-	-	-	X
91	MG	6	2136	-	-	-	X
91	MG	6	2137	-	-	-	X

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Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
91	MG	6	2141	-	-	-	X
91	MG	6	2147	-	-	-	X
91	MG	6	2152	-	-	-	X
91	MG	6	2156	-	-	-	X
91	MG	6	2166	-	-	-	X
91	MG	6	2167	-	-	-	X
91	MG	6	2180	-	-	-	X
91	MG	6	2183	-	-	-	X
91	MG	7	212	-	-	-	X
91	MG	7	225	-	-	-	X
91	MG	C1	201	-	-	-	X
91	MG	C9	201	-	-	-	X
91	MG	L4	404	-	-	-	X
91	MG	M7	202	-	-	-	X
91	MG	O7	105	-	-	-	X
91	MG	S4	301	-	-	-	X
91	MG	c6	201	-	-	-	X
91	MG	d3	201	-	-	-	X
91	MG	d7	102	-	-	-	X
91	MG	l6	201	-	-	-	X
91	MG	n6	201	-	-	-	X
91	MG	o2	201	-	-	-	X
91	MG	o9	101	-	-	-	X
91	MG	s6	301	-	-	-	X
93	PHE	5	3401	-	-	-	X

2 Entry composition (i)

There are 96 unique types of molecules in this entry. The entry contains 411566 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 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	2	1781	37970	16975	6720	12493	1782	0	1	0

- Molecule 2 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	S0	206	1577	1014	278	283	2	0	0	0
			Total	C	N	O	S			
2	s0	206	1583	1017	281	283	2	0	0	0

- Molecule 3 is a protein called 40S ribosomal protein S1-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	S1	214	1709	1084	310	311	4	0	0	0
			Total	C	N	O	S			
3	s1	216	1722	1091	312	315	4	0	0	0

There are 8 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
S1	56	SER	ASN	conflict	UNP P23248
S1	84	ILE	VAL	conflict	UNP P23248
S1	174	LYS	ARG	conflict	UNP P23248
S1	178	GLY	ASN	conflict	UNP P23248
s1	56	SER	ASN	conflict	UNP P23248
s1	84	ILE	VAL	conflict	UNP P23248
s1	174	LYS	ARG	conflict	UNP P23248
s1	178	GLY	ASN	conflict	UNP P23248

- Molecule 4 is a protein called 40S ribosomal protein S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	S2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			
4	s2	217	Total	C	N	O	S	0	0	0
			1635	1047	289	297	2			

- Molecule 5 is a protein called 40S ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	S3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			
5	s3	223	Total	C	N	O	S	0	0	0
			1734	1101	313	314	6			

- Molecule 6 is a protein called 40S ribosomal protein S4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	S4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			
6	s4	260	Total	C	N	O	S	0	0	0
			2068	1316	389	360	3			

- Molecule 7 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	S5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			
7	s5	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

- Molecule 8 is a protein called 40S ribosomal protein S6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	S6	226	Total	C	N	O	S	0	0	0
			1799	1129	346	321	3			
8	s6	218	Total	C	N	O	S	0	0	0
			1755	1102	337	313	3			

- Molecule 9 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	S7	184	Total	C	N	O	0	0	0
			1481	951	265	265			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	s7	186	Total 1491	C 957	N 267	O 267	0	0	0

- Molecule 10 is a protein called 40S ribosomal protein S8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	S8	188	Total 1489	C 925	N 298	O 264	S 2	0	0	0
10	s8	188	Total 1489	C 925	N 298	O 264	S 2	0	0	0

- Molecule 11 is a protein called 40S ribosomal protein S9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	S9	185	Total 1494	C 943	N 289	O 261	S 1	0	0	0
11	s9	185	Total 1494	C 943	N 289	O 261	S 1	0	0	0

- Molecule 12 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total 772	C 499	N 126	O 145	S 2	0	0	0
12	c0	96	Total 761	C 490	N 125	O 144	S 2	0	0	0

- Molecule 13 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total 1213	C 774	N 230	O 206	S 3	0	0	0
13	c1	146	Total 1168	C 747	N 221	O 197	S 3	0	0	0

- Molecule 14 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total 890	C 560	N 156	O 172	S 2	0	0	0
14	c2	124	Total 890	C 560	N 156	O 172	S 2	0	0	0

- Molecule 15 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	C3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			
15	c3	150	Total	C	N	O	S	0	0	0
			1192	759	224	207	2			

- Molecule 16 is a protein called 40S ribosomal protein S14-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	C4	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
16	c4	128	Total	C	N	O	S	0	0	0
			949	582	188	176	3			

- Molecule 17 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	C5	124	Total	C	N	O	S	0	0	0
			977	622	182	166	7			
17	c5	135	Total	C	N	O	S	0	0	0
			1039	658	196	178	7			

- Molecule 18 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	C6	141	Total	C	N	O	0	0	0
			1105	708	203	194			
18	c6	142	Total	C	N	O	0	0	0
			1111	711	204	196			

- Molecule 19 is a protein called 40S ribosomal protein S17-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	C7	120	Total	C	N	O	S	0	0	0
			926	577	177	170	2			
19	c7	117	Total	C	N	O	S	0	0	0
			906	563	174	167	2			

- Molecule 20 is a protein called 40S ribosomal protein S18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	C8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			
20	c8	145	Total	C	N	O	S	0	0	0
			1192	743	237	210	2			

- Molecule 21 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	C9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			
21	c9	143	Total	C	N	O	S	0	0	0
			1112	694	208	208	2			

- Molecule 22 is a protein called 40S ribosomal protein S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	D0	107	Total	C	N	O	S	0	0	0
			855	539	156	159	1			
22	d0	110	Total	C	N	O	S	0	0	0
			882	554	161	166	1			

- Molecule 23 is a protein called 40S ribosomal protein S21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	D1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			
23	d1	87	Total	C	N	O	S	0	0	0
			684	420	125	137	2			

- Molecule 24 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	D2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			
24	d2	129	Total	C	N	O	S	0	0	0
			1021	650	188	180	3			

- Molecule 25 is a protein called 40S ribosomal protein S23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	D3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	d3	144	Total	C	N	O	S	0	0	0
			1121	708	220	191	2			

- Molecule 26 is a protein called 40S ribosomal protein S24-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	D4	134	Total	C	N	O	0	0	0
			1073	676	208	189			
26	d4	134	Total	C	N	O	0	0	0
			1073	676	208	189			

- Molecule 27 is a protein called 40S ribosomal protein S25-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	D5	70	Total	C	N	O	0	0	0
			563	360	104	99			
27	d5	69	Total	C	N	O	0	0	0
			558	357	103	98			

- Molecule 28 is a protein called 40S ribosomal protein S26-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	D6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			
28	d6	97	Total	C	N	O	S	0	0	0
			769	475	160	129	5			

- Molecule 29 is a protein called 40S ribosomal protein S27-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	D7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			
29	d7	81	Total	C	N	O	S	0	0	0
			610	382	110	113	5			

- Molecule 30 is a protein called 40S ribosomal protein S28-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	D8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			
30	d8	63	Total	C	N	O	S	0	0	0
			497	306	99	91	1			

- Molecule 31 is a protein called 40S ribosomal protein S29-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	D9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			
31	d9	53	Total	C	N	O	S	0	0	0
			442	274	92	72	4			

- Molecule 32 is a protein called 40S ribosomal protein S30-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	E0	60	Total	C	N	O	S	0	0	0
			475	299	98	77	1			
32	e0	62	Total	C	N	O	S	0	0	0
			491	309	101	80	1			

- Molecule 33 is a protein called 40S ribosomal protein S31.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	E1	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
33	e1	76	Total	C	N	O	S	0	0	0
			608	388	117	99	4			

- Molecule 34 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	SR	318	Total	C	N	O	S	0	0	0
			2437	1541	418	470	8			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SR	161	ALA	LYS	conflict	UNP P38011

- Molecule 35 is a protein called Suppressor protein STM1,Ribosome-bound protein Stm1,Suppressor protein STM1,Ribosome-bound protein Stm1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O	0	0	0
			1104	654	221	229			

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
SM	134	LEU	ASP	conflict	UNP P39015

- Molecule 36 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			

- Molecule 37 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
37	7	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 38 is a RNA chain called 5.8S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
38	8	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 39 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
39	L2	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
39	l2	252	Total	C	N	O	S	0	0	0
			1912	1190	388	333	1			

- Molecule 40 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	L3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
40	l3	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

- Molecule 41 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	L4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
41	l4	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

- Molecule 42 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	L5	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
42	l5	294	Total	C	N	O	S	0	0	0
			2359	1489	412	456	2			

- Molecule 43 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	L6	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
43	l6	157	Total	C	N	O	S	0	0	0
			1248	806	224	217	1			

- Molecule 44 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	L7	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
44	l7	223	Total	C	N	O	S	0	0	0
			1791	1155	325	310	1			

- Molecule 45 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
45	L8	233	Total	C	N	O	S	0	0	0
			1804	1151	323	327	3			

- Molecule 46 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	L9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
46	l9	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 47 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	M0	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
47	m0	213	Total	C	N	O	S	0	0	0
			1722	1094	325	297	6			

- Molecule 48 is a protein called 60S ribosomal protein L11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	M1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
48	m1	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 49 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
49	M3	193	Total	C	N	O	0	0	0
			1543	962	315	266			
49	m3	194	Total	C	N	O	0	0	0
			1548	965	316	267			

- Molecule 50 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	M4	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			
50	m4	137	Total	C	N	O	S	0	0	0
			1059	678	200	179	2			

- Molecule 51 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	M5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
51	m5	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 52 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	M6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			
52	m6	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 53 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
53	M7	183	Total	C	N	O	0	0	0
			1420	882	281	257			
53	m7	155	Total	C	N	O	0	0	0
			1227	764	238	225			

- Molecule 54 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	M8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			
54	m8	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			

- Molecule 55 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	M9	188	Total	C	N	O	0	0	0
			1521	935	326	260			
55	m9	188	Total	C	N	O	0	0	0
			1521	935	326	260			

- Molecule 56 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	N0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
56	n0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 57 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	N1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	n1	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 58 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
58	N2	100	Total	C	N	O	0	0	0
			796	516	131	149			
58	n2	98	Total	C	N	O	0	0	0
			778	505	127	146			

- Molecule 59 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	N3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
59	n3	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

- Molecule 60 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	N4	98	Total	C	N	O	S	0	0	0
			699	443	137	118	1			

- Molecule 61 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	N5	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			
61	n5	120	Total	C	N	O	S	0	0	0
			959	617	168	172	2			

- Molecule 62 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
62	N6	126	Total	C	N	O	0	0	0
			993	625	192	176			
62	n6	126	Total	C	N	O	0	0	0
			993	625	192	176			

- Molecule 63 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
63	N7	135	Total 1092	C 710	N 202	O 180	0	0	0
63	n7	135	Total 1092	C 710	N 202	O 180	0	0	0

- Molecule 64 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
64	N8	148	Total 1173	C 749	N 231	O 190	S 3	0	0	0
64	n8	148	Total 1173	C 749	N 231	O 190	S 3	0	0	0

- Molecule 65 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
65	N9	58	Total 462	C 289	N 100	O 73	0	0	0
65	n9	58	Total 462	C 289	N 100	O 73	0	0	0

- Molecule 66 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
66	O0	97	Total 743	C 479	N 124	O 139	S 1	0	0	0
66	o0	100	Total 767	C 492	N 128	O 146	S 1	0	0	0

- Molecule 67 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
67	O1	109	Total 876	C 556	N 167	O 152	S 1	0	0	0
67	o1	109	Total 883	C 559	N 167	O 156	S 1	0	0	0

- Molecule 68 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	O2	127	Total 1020	C 647	N 205	O 167	S 1	0	0	0

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	o2	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 69 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	O3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			
69	o3	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

- Molecule 70 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	O4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			
70	o4	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

- Molecule 71 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	O5	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
71	o5	119	Total	C	N	O	S	0	0	0
			965	612	185	167	1			

- Molecule 72 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	O6	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			
72	o6	99	Total	C	N	O	S	0	0	0
			770	481	156	131	2			

- Molecule 73 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	O7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			
73	o7	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			

- Molecule 74 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
74	O8	77	Total	C	N	O	0	0	0
			612	391	115	106			
74	o8	77	Total	C	N	O	0	0	0
			608	388	114	106			

- Molecule 75 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	O9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
75	o9	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 76 is a protein called 60S ribosomal protein L40-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	Q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
76	q0	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 77 is a protein called 60S ribosomal protein L41-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	Q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			
77	q1	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 78 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	Q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
78	q2	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 79 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	Q3	91	Total 694	C 429	N 138	O 121	S 6	0	0	0
79	q3	91	Total 694	C 429	N 138	O 121	S 6	0	0	0

- Molecule 80 is a RNA chain called 18S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	6	1795	Total 38260	C 17105	N 6763	O 12596	P 1796	0	1	0

- Molecule 81 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
81	sR	318	Total 2442	C 1544	N 418	O 472	S 8	0	0	0

- Molecule 82 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
82	sM	104	Total 680	C 403	N 140	O 137	0	0	0

- Molecule 83 is a RNA chain called 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
83	5	3150	Total 67376	C 30095	N 12145	O 21987	P 3149	0	0	0

- Molecule 84 is a protein called 60S ribosomal protein L8-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
84	l8	231	Total 1763	C 1130	N 316	O 314	S 3	0	0	0

- Molecule 85 is a protein called 60S ribosomal protein L12-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
85	m2	150	Total 737	C 437	N 150	O 150	0	0	0

- Molecule 86 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
86	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	1			

- Molecule 87 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
87	p0	143	Total	C	N	O	S	0	0	0
			1077	687	192	195	3			

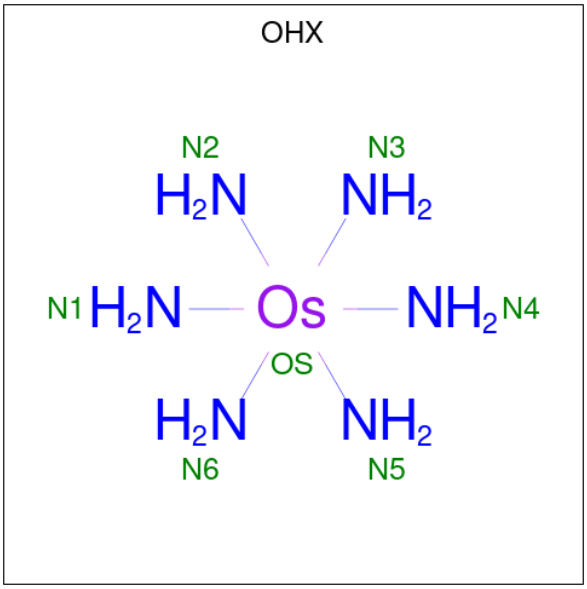
- Molecule 88 is a protein called 60S ribosomal protein L40-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
88	p1	47	Total	C	N	O	0	0	0
			232	138	47	47			
88	p2	46	Total	C	N	O	0	0	0
			228	136	46	46			

- Molecule 89 is a RNA chain called Peptidyl-tRNA analog ACCA-Leu-Phe.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
89	P	2	Total	C	N	O	P	0	0	0
			37	18	6	12	1			
89	p	2	Total	C	N	O	P	0	0	0
			40	18	6	14	2			

- Molecule 90 is osmium (III) hexammine (three-letter code: OHX) (formula: $H_{12}N_6Os$).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
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90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
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90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
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90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
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90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
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			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
			7	6	1		
90	2	1	Total	N	Os	0	0
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90	2	1	Total	N	Os	0	0
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90	2	1	Total	N	Os	0	0
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90	2	1	Total	N	Os	0	0
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
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90	2	1	Total N Os 7 6 1	0	0
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90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
90	2	1	Total N Os 7 6 1	0	0
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90	S9	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	1	1	Total	N	Os	0	0
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90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
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90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
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90	1	1	Total	N	Os	0	0
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90	1	1	Total	N	Os	0	0
			7	6	1		
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			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		
90	1	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	1	1	Total N Os 7 6 1	0	0
90	3	1	Total N Os 7 6 1	0	0
90	3	1	Total N Os 7 6 1	0	0
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90	3	1	Total N Os 7 6 1	0	0
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90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	4	1	Total N Os 7 6 1	0	0
90	L3	1	Total N Os 7 6 1	0	0
90	L3	1	Total N Os 7 6 1	0	0
90	L4	1	Total N Os 7 6 1	0	0
90	L6	1	Total N Os 7 6 1	0	0
90	L6	1	Total N Os 7 6 1	0	0
90	M0	1	Total N Os 7 6 1	0	0
90	M5	1	Total N Os 7 6 1	0	0
90	M5	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	M6	1	Total N Os 7 6 1	0	0
90	M7	1	Total N Os 7 6 1	0	0
90	M8	1	Total N Os 7 6 1	0	0
90	M9	1	Total N Os 7 6 1	0	0
90	N9	1	Total N Os 7 6 1	0	0
90	O3	1	Total N Os 7 6 1	0	0
90	O4	1	Total N Os 7 6 1	0	0
90	O7	1	Total N Os 7 6 1	0	0
90	O9	1	Total N Os 7 6 1	0	0
90	Q2	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
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90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
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90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
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90	6	1	Total N Os 7 6 1	0	0
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90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
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90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
90	6	1	Total N Os 7 6 1	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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90	s4	1	Total N Os 7 6 1	0	0
90	s8	1	Total N Os 7 6 1	0	0
90	s9	1	Total N Os 7 6 1	0	0
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90	c5	1	Total N Os 7 6 1	0	0
90	c8	1	Total N Os 7 6 1	0	0
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90	sR	1	Total N Os 7 6 1	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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90	5	1	Total N Os 7 6 1	0	0
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90	5	1	Total N Os 7 6 1	0	0
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		
90	5	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	5	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	7	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	8	1	Total N Os 7 6 1	0	0
90	l3	1	Total N Os 7 6 1	0	0
90	l3	1	Total N Os 7 6 1	0	0
90	l5	1	Total N Os 7 6 1	0	0
90	l5	1	Total N Os 7 6 1	0	0
90	l9	1	Total N Os 7 6 1	0	0
90	m0	1	Total N Os 7 6 1	0	0
90	m0	1	Total N Os 7 6 1	0	0
90	m0	1	Total N Os 7 6 1	0	0
90	m5	1	Total N Os 7 6 1	0	0
90	m5	1	Total N Os 7 6 1	0	0
90	m6	1	Total N Os 7 6 1	0	0
90	m8	1	Total N Os 7 6 1	0	0
90	m9	1	Total N Os 7 6 1	0	0
90	n9	1	Total N Os 7 6 1	0	0
90	o3	1	Total N Os 7 6 1	0	0
90	o7	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	o7	1	Total N Os 7 6 1	0	0
90	q2	1	Total N Os 7 6 1	0	0

- Molecule 91 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	2	90	Total Mg 90 90	0	0
91	S4	1	Total Mg 1 1	0	0
91	C1	1	Total Mg 1 1	0	0
91	C8	1	Total Mg 1 1	0	0
91	C9	1	Total Mg 1 1	0	0
91	D9	2	Total Mg 2 2	0	0
91	1	394	Total Mg 394 394	0	0
91	3	7	Total Mg 7 7	0	0
91	4	17	Total Mg 17 17	0	0
91	L2	2	Total Mg 2 2	0	0
91	L3	3	Total Mg 3 3	0	0
91	L4	5	Total Mg 5 5	0	0
91	L7	2	Total Mg 2 2	0	0
91	M0	1	Total Mg 1 1	0	0
91	M3	1	Total Mg 1 1	0	0
91	M5	1	Total Mg 1 1	0	0
91	M7	5	Total Mg 5 5	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	N0	2	Total Mg 2 2	0	0
91	N3	3	Total Mg 3 3	0	0
91	N5	1	Total Mg 1 1	0	0
91	N6	2	Total Mg 2 2	0	0
91	N8	6	Total Mg 6 6	0	0
91	O4	1	Total Mg 1 1	0	0
91	O5	1	Total Mg 1 1	0	0
91	O7	4	Total Mg 4 4	0	0
91	Q2	1	Total Mg 1 1	0	0
91	6	126	Total Mg 126 126	0	0
91	s4	1	Total Mg 1 1	0	0
91	s6	1	Total Mg 1 1	0	0
91	c6	1	Total Mg 1 1	0	0
91	c8	2	Total Mg 2 2	0	0
91	c9	1	Total Mg 1 1	0	0
91	d3	1	Total Mg 1 1	0	0
91	d4	1	Total Mg 1 1	0	0
91	d6	1	Total Mg 1 1	0	0
91	d7	1	Total Mg 1 1	0	0
91	sM	2	Total Mg 2 2	0	0
91	5	427	Total Mg 427 427	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	7	15	Total Mg 15 15	0	0
91	8	14	Total Mg 14 14	0	0
91	l2	3	Total Mg 3 3	0	0
91	l3	4	Total Mg 4 4	0	0
91	l5	1	Total Mg 1 1	0	0
91	l6	1	Total Mg 1 1	0	0
91	l7	1	Total Mg 1 1	0	0
91	l9	1	Total Mg 1 1	0	0
91	m0	1	Total Mg 1 1	0	0
91	m4	1	Total Mg 1 1	0	0
91	m5	2	Total Mg 2 2	0	0
91	m6	4	Total Mg 4 4	0	0
91	m7	3	Total Mg 3 3	0	0
91	n0	2	Total Mg 2 2	0	0
91	n3	1	Total Mg 1 1	0	0
91	n6	2	Total Mg 2 2	0	0
91	n8	3	Total Mg 3 3	0	0
91	n9	2	Total Mg 2 2	0	0
91	o2	2	Total Mg 2 2	0	0
91	o3	2	Total Mg 2 2	0	0
91	o4	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
91	o9	1	Total Mg 1 1	0	0
91	q1	1	Total Mg 1 1	0	0
91	P	1	Total Mg 1 1	0	0
91	p	2	Total Mg 2 2	0	0

- Molecule 92 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
92	D6	1	Total Zn 1 1	0	0
92	D7	1	Total Zn 1 1	0	0
92	D9	1	Total Zn 1 1	0	0
92	E1	1	Total Zn 1 1	0	0
92	O7	1	Total Zn 1 1	0	0
92	Q0	1	Total Zn 1 1	0	0
92	Q2	1	Total Zn 1 1	0	0
92	Q3	1	Total Zn 1 1	0	0
92	d6	1	Total Zn 1 1	0	0
92	d7	1	Total Zn 1 1	0	0
92	d9	1	Total Zn 1 1	0	0
92	e1	1	Total Zn 1 1	0	0
92	o7	1	Total Zn 1 1	0	0
92	q0	1	Total Zn 1 1	0	0
92	q2	1	Total Zn 1 1	0	0

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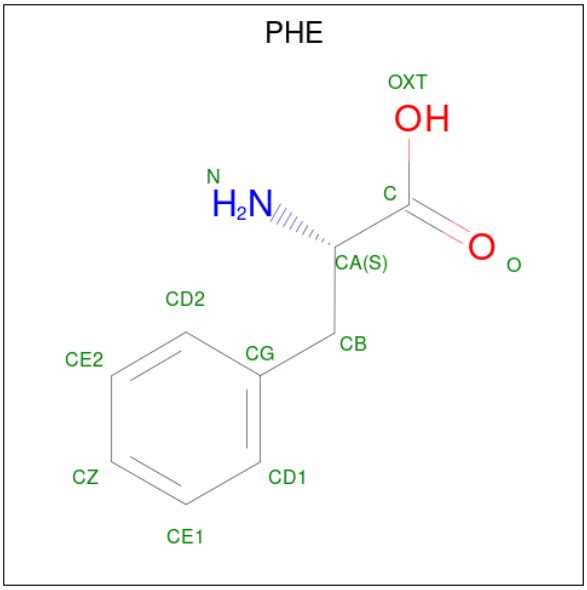
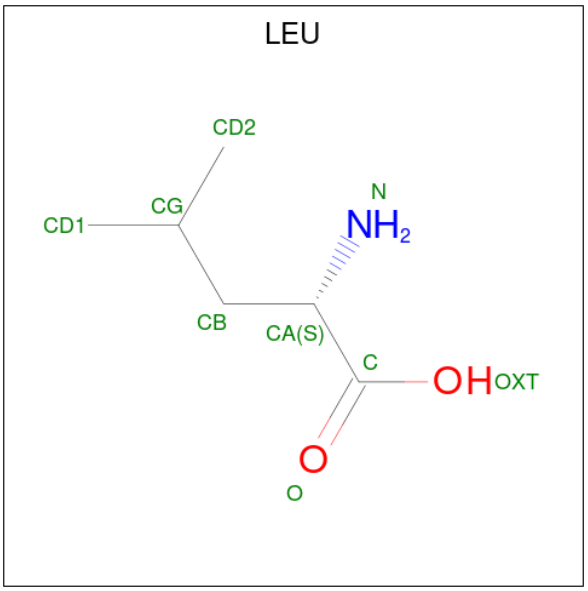
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
92	q3	1	Total Zn 1 1	0	0

- Molecule 93 is PHENYLALANINE (three-letter code: PHE) (formula: $C_9H_{11}NO_2$).



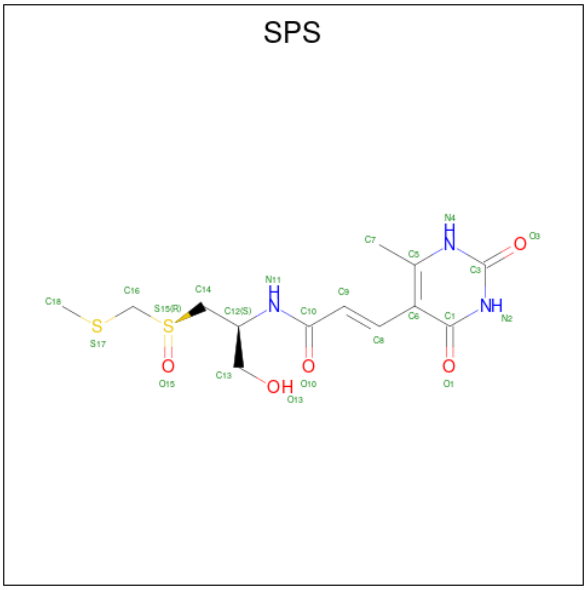
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
93	1	1	Total C N O 11 9 1 1	0	0
93	5	1	Total C N O 11 9 1 1	0	0

- Molecule 94 is LEUCINE (three-letter code: LEU) (formula: $C_6H_{13}NO_2$).



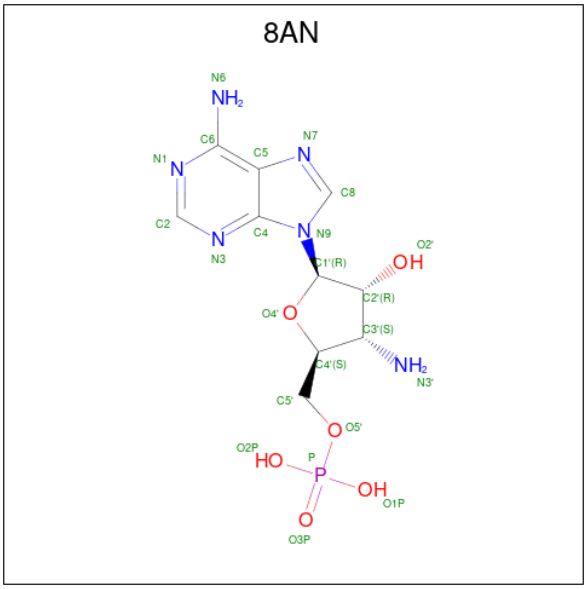
Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
94	1	1	Total	C	N	O	0	0
			8	6	1	1		
94	5	1	Total	C	N	O	0	0
			8	6	1	1		

- Molecule 95 is SPARSOMYCIN (three-letter code: SPS) (formula: $C_{13}H_{19}N_3O_5S_2$).



Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
95	1	1	Total	C	N	O	S	0	0
			23	13	3	5	2		
95	5	1	Total	C	N	O	S	0	0
			23	13	3	5	2		

- Molecule 96 is 3'-amino-3'-deoxyadenosine 5'-(dihydrogen phosphate) (three-letter code: 8AN) (formula: $C_{10}H_{15}N_6O_6P$).



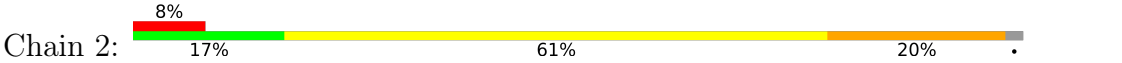
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf
96	P	1	Total	C	N	O	P	0	0
			22	10	6	5	1		
96	p	1	Total	C	N	O	P	0	0
			22	10	6	5	1		

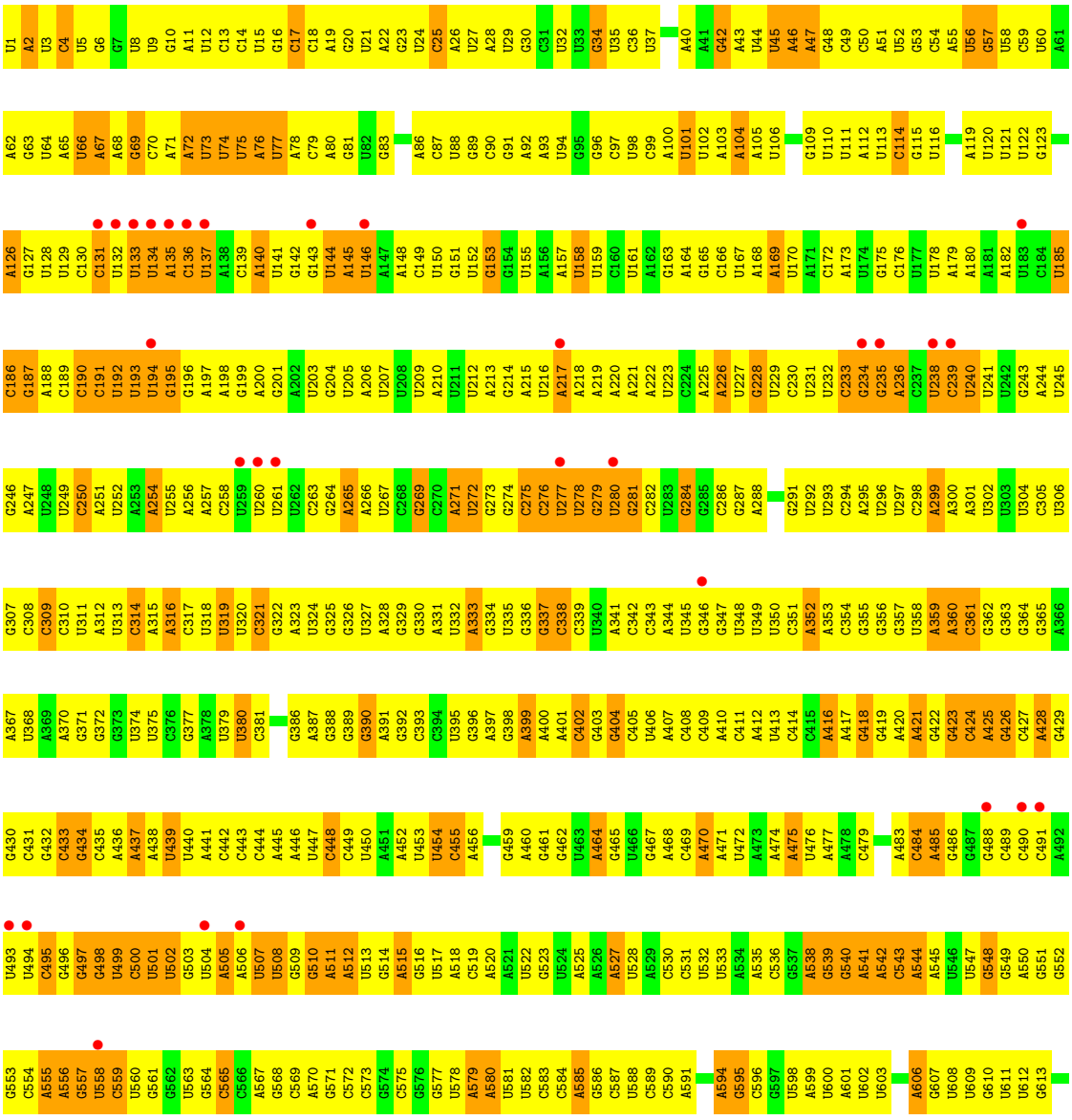
3 Residue-property plots (i)

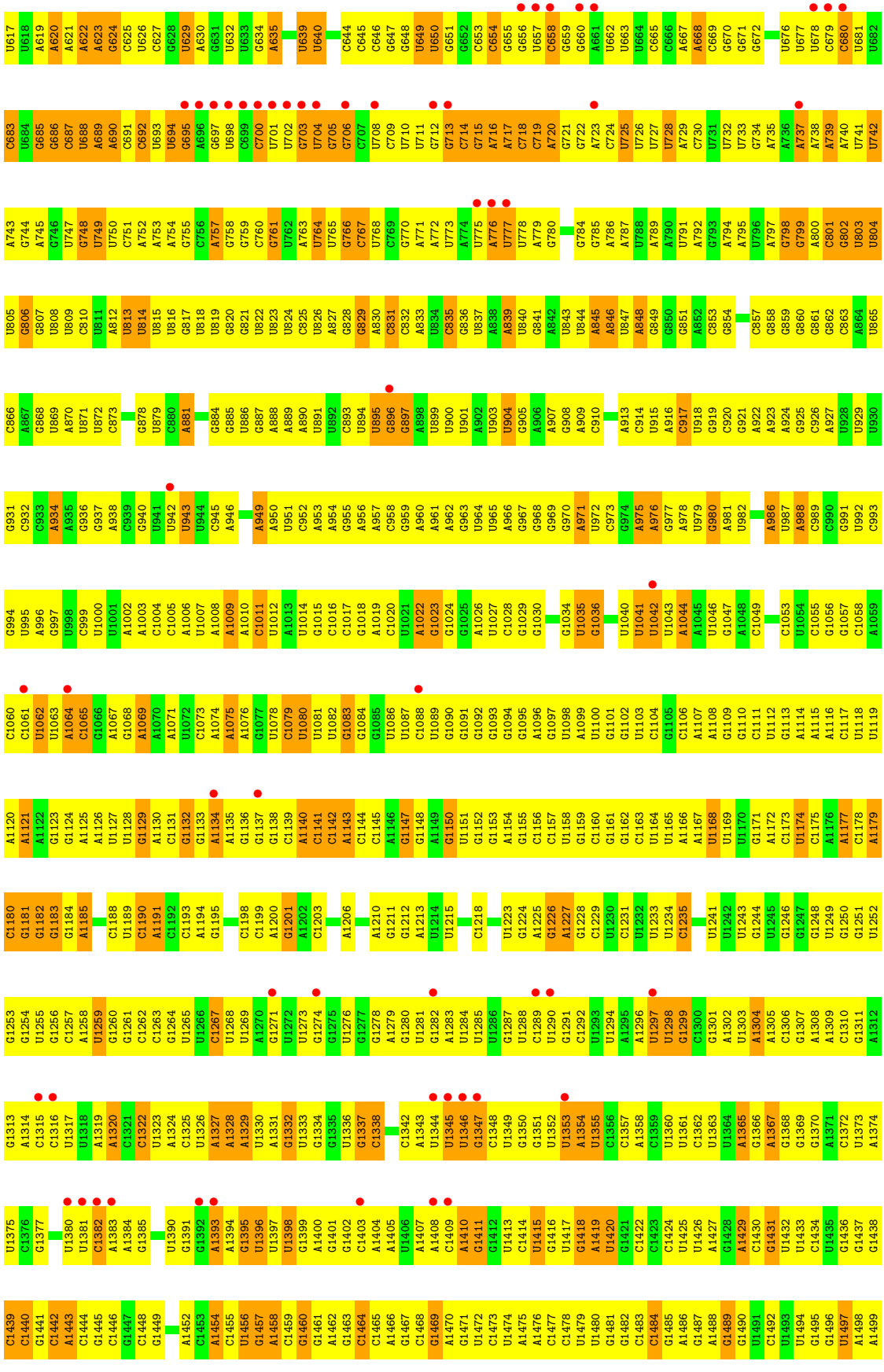
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. 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.

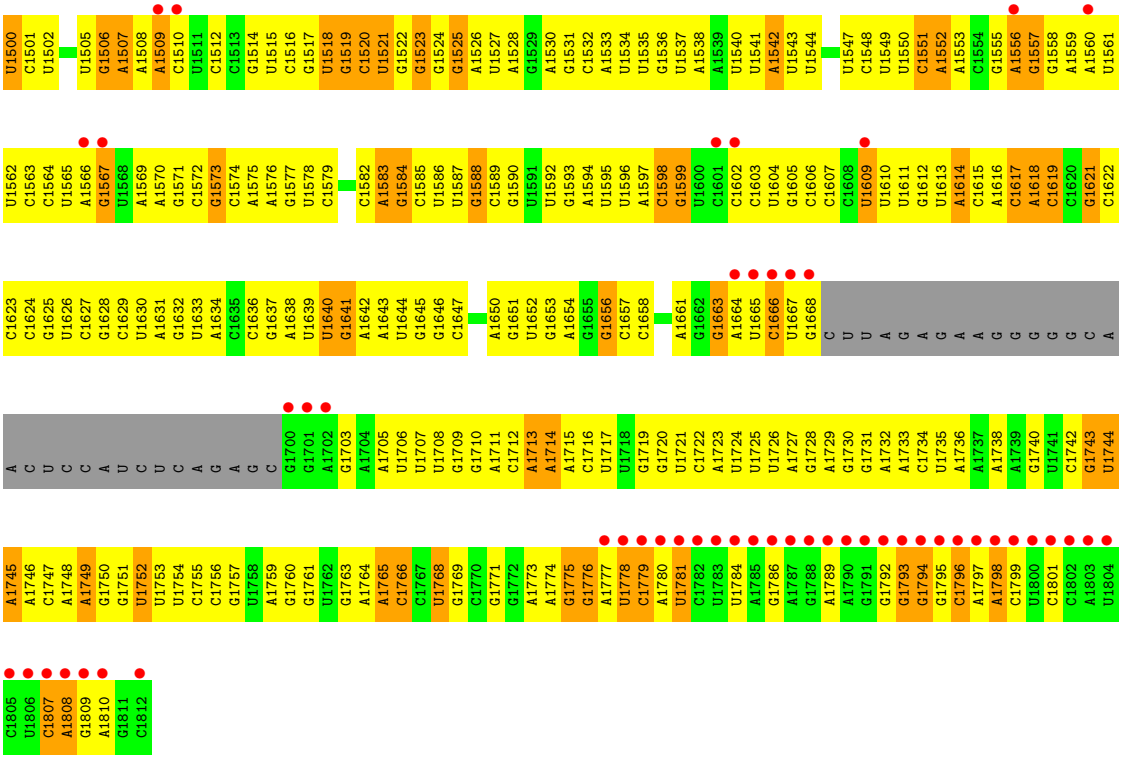
- Molecule 1: 18S ribosomal RNA

Chain 2:



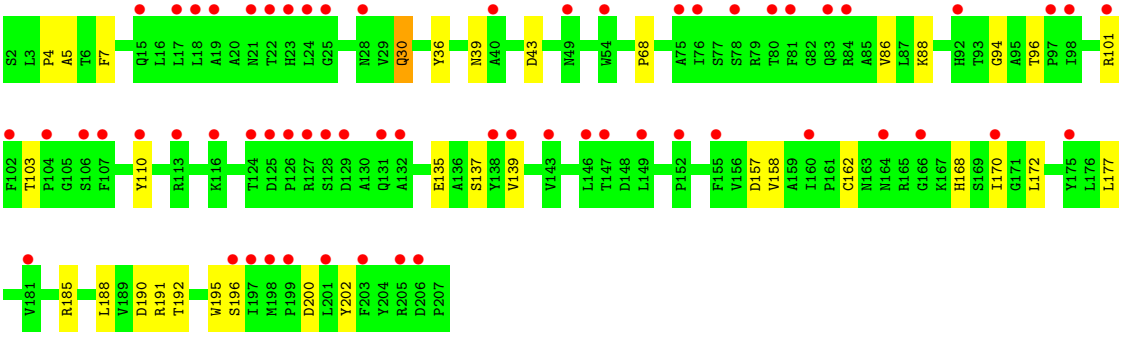






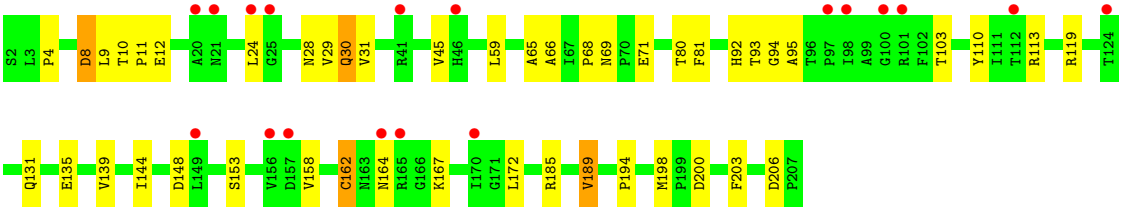
• Molecule 2: 40S ribosomal protein S0-A

Chain S0:



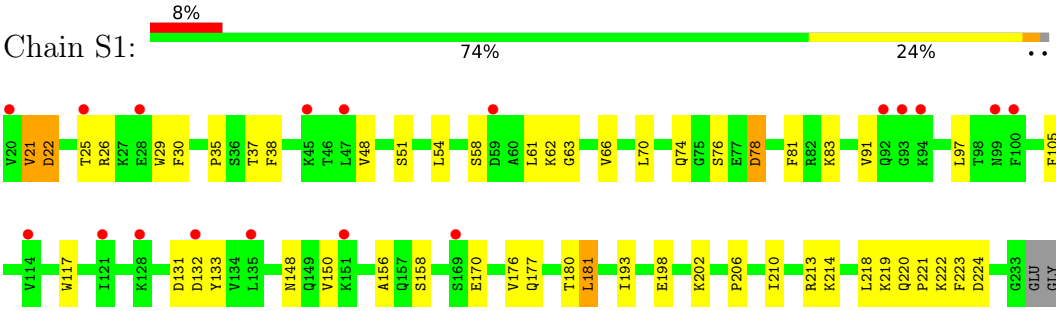
• Molecule 2: 40S ribosomal protein S0-A

Chain s0:



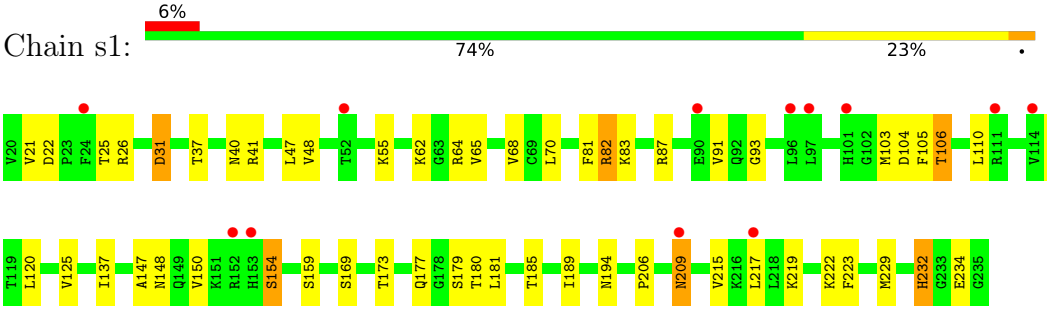
• Molecule 3: 40S ribosomal protein S1-B

Chain S1:



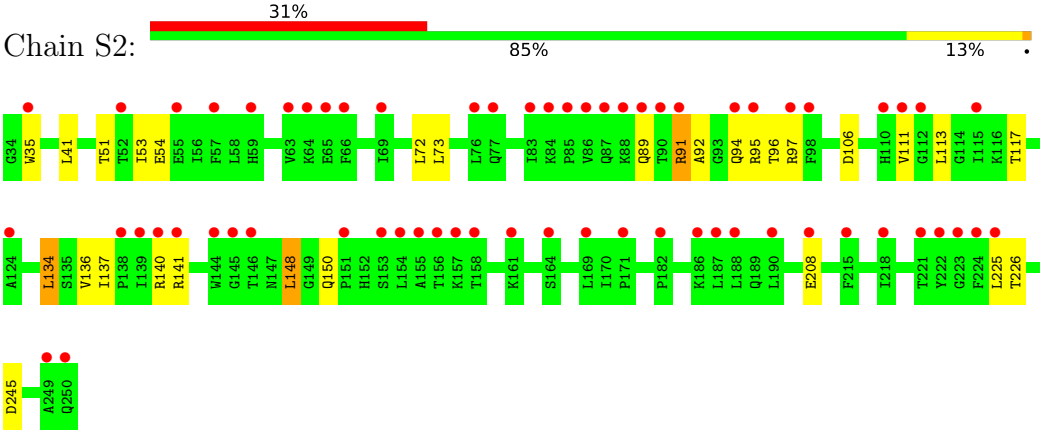
• Molecule 3: 40S ribosomal protein S1-B

Chain s1:



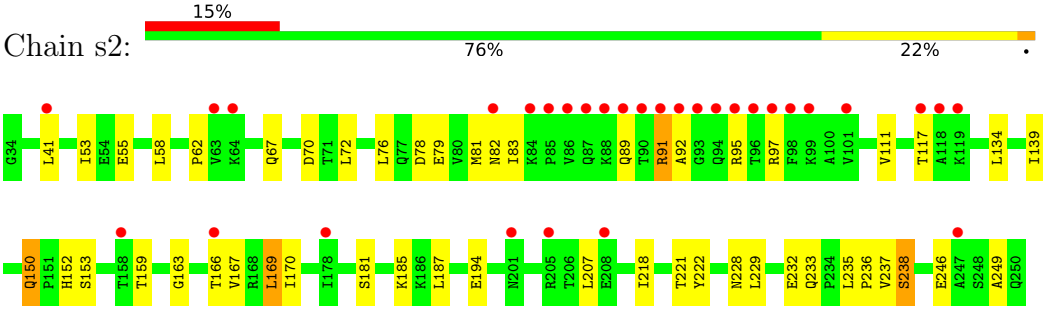
• Molecule 4: 40S ribosomal protein S2

Chain S2:



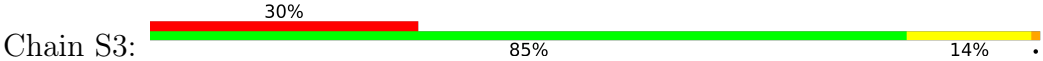
• Molecule 4: 40S ribosomal protein S2

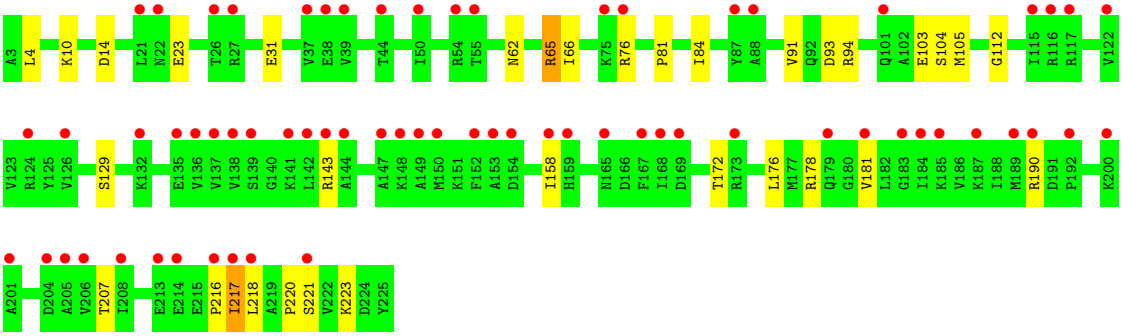
Chain s2:



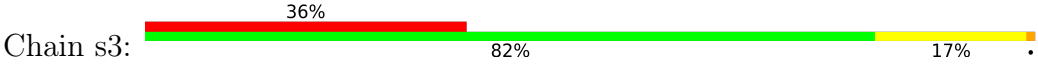
• Molecule 5: 40S ribosomal protein S3

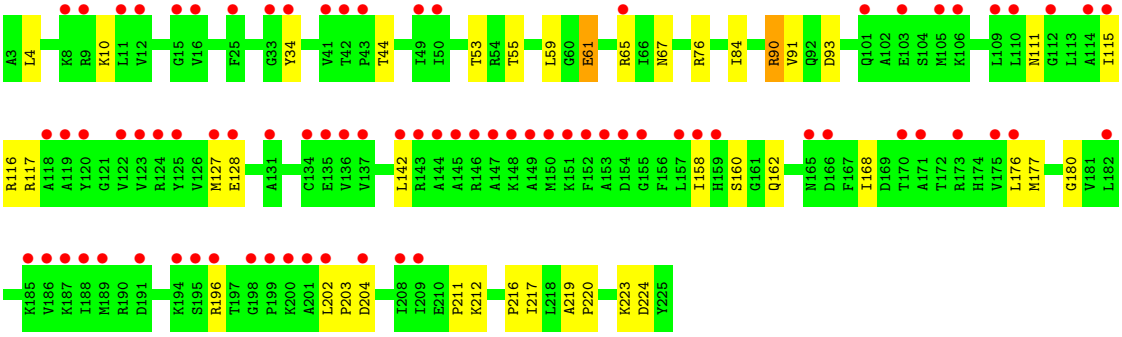
Chain S3:



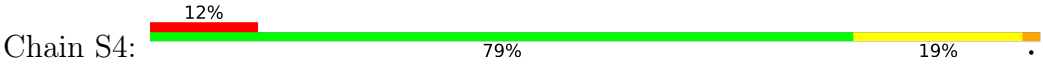


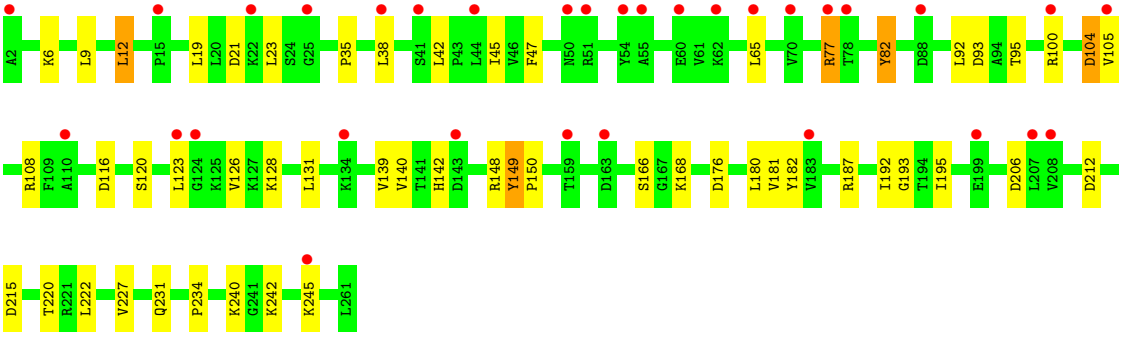
• Molecule 5: 40S ribosomal protein S3



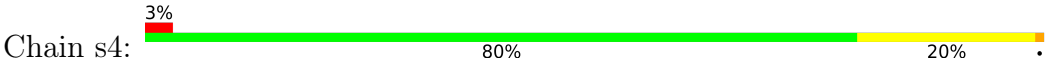


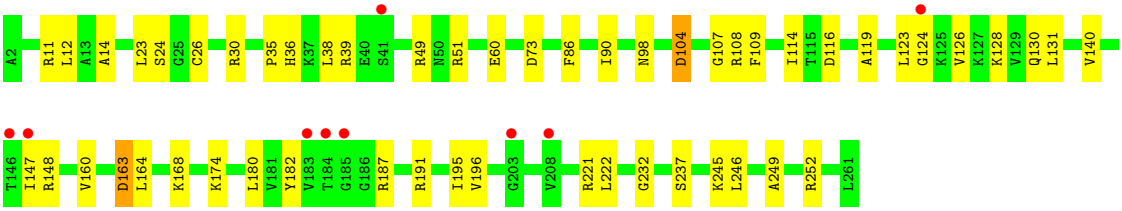
• Molecule 6: 40S ribosomal protein S4-A





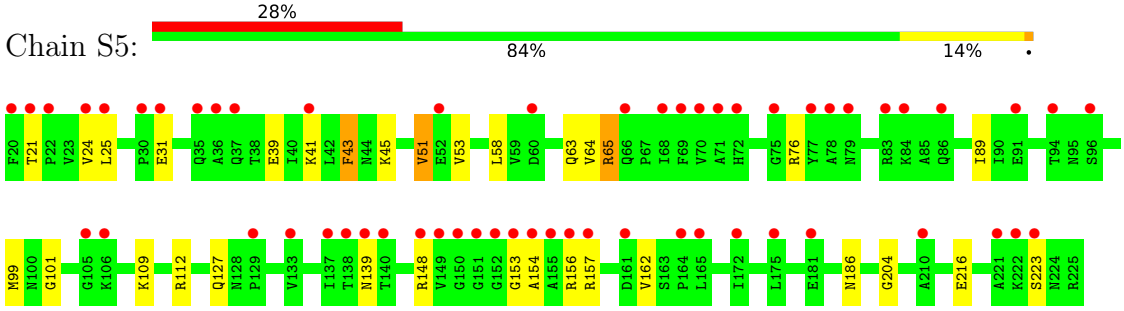
• Molecule 6: 40S ribosomal protein S4-A





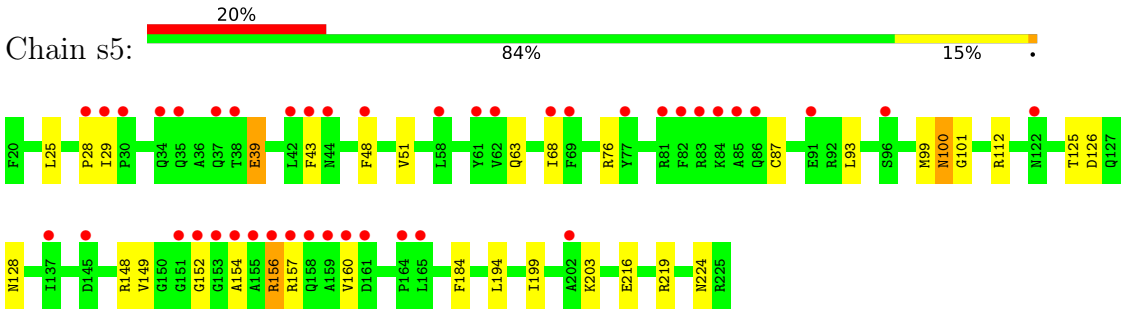
• Molecule 7: 40S ribosomal protein S5

Chain S5:



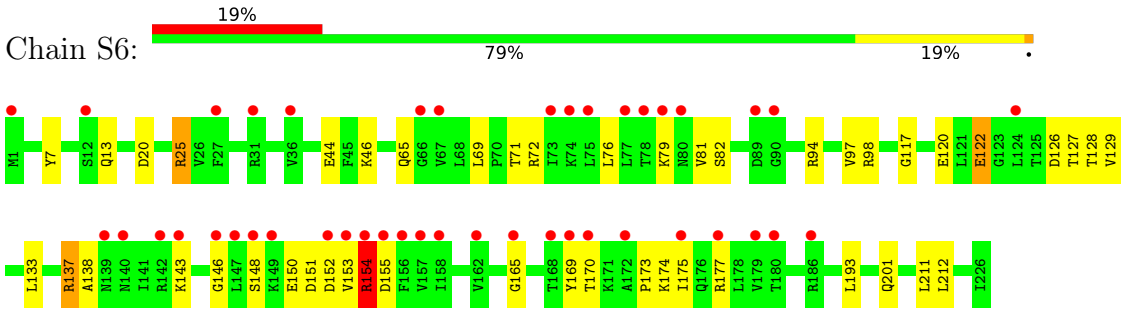
• Molecule 7: 40S ribosomal protein S5

Chain s5:



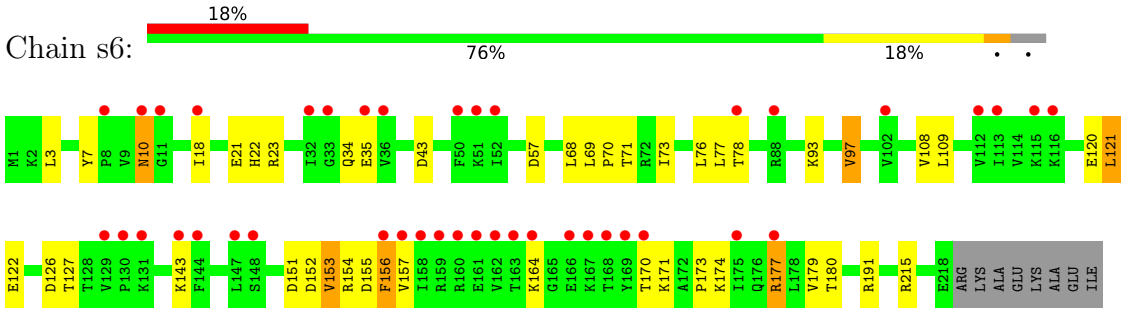
• Molecule 8: 40S ribosomal protein S6-A

Chain S6:



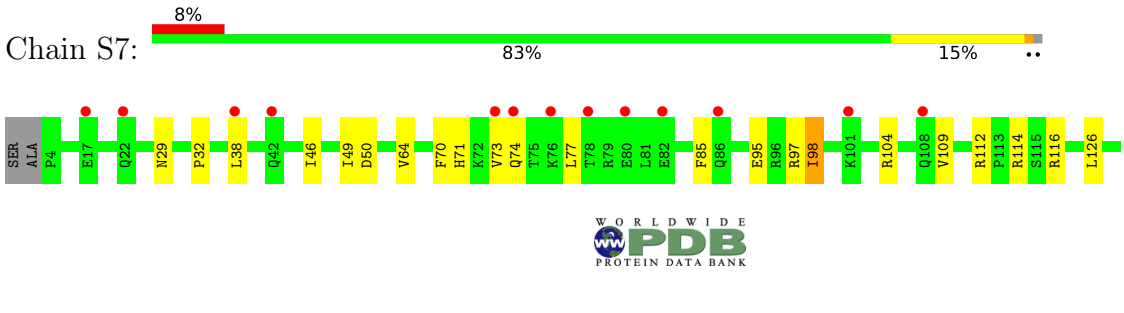
• Molecule 8: 40S ribosomal protein S6-A

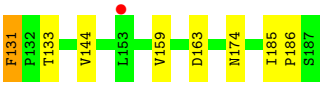
Chain s6:



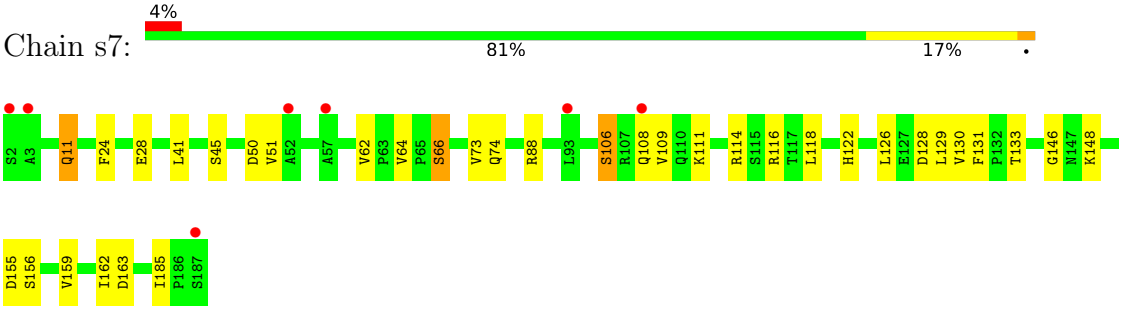
• Molecule 9: 40S ribosomal protein S7-A

Chain S7:

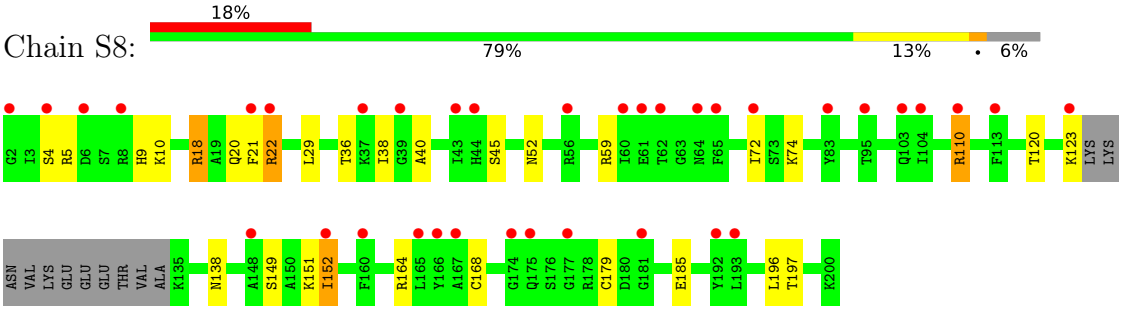




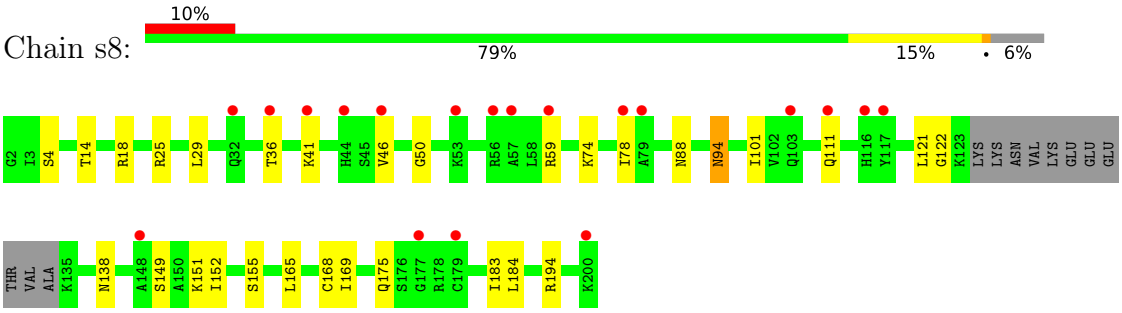
• Molecule 9: 40S ribosomal protein S7-A



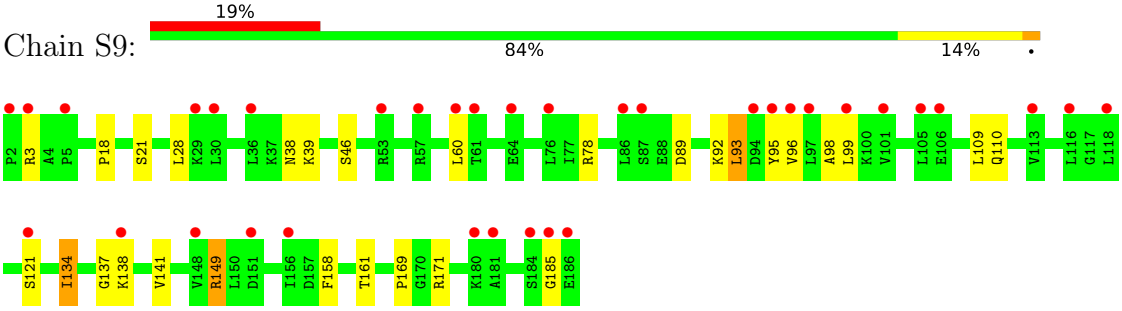
• Molecule 10: 40S ribosomal protein S8-A



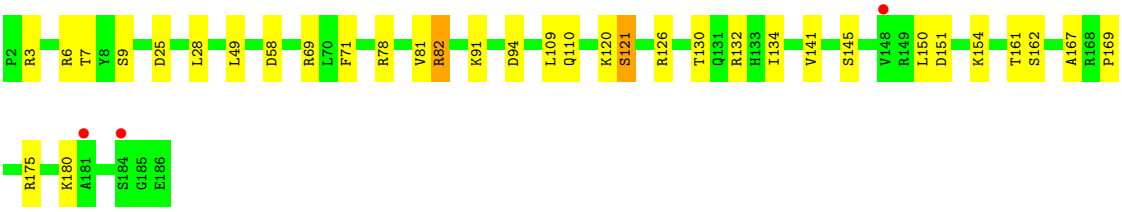
• Molecule 10: 40S ribosomal protein S8-A



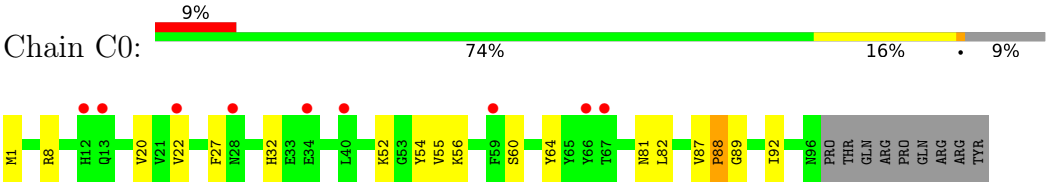
• Molecule 11: 40S ribosomal protein S9-A



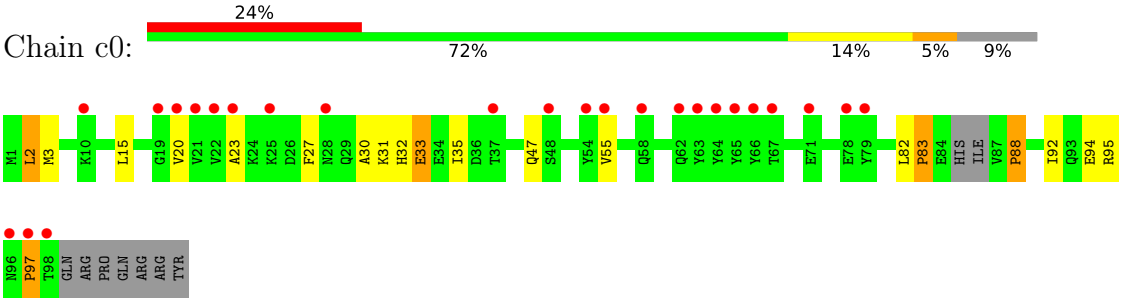
• Molecule 11: 40S ribosomal protein S9-A



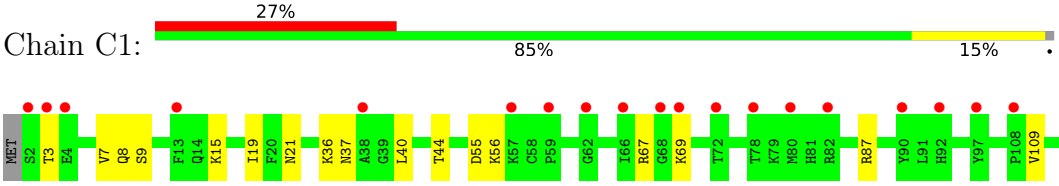
• Molecule 12: 40S ribosomal protein S10-A



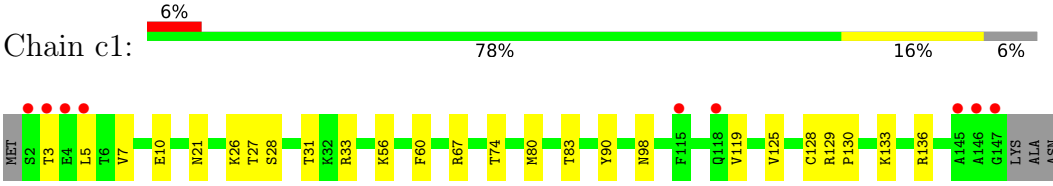
• Molecule 12: 40S ribosomal protein S10-A



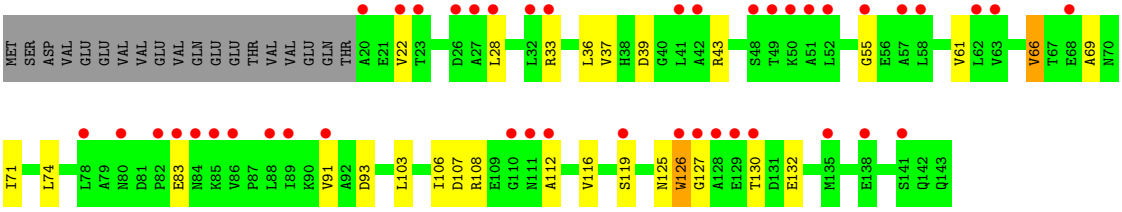
• Molecule 13: 40S ribosomal protein S11-A



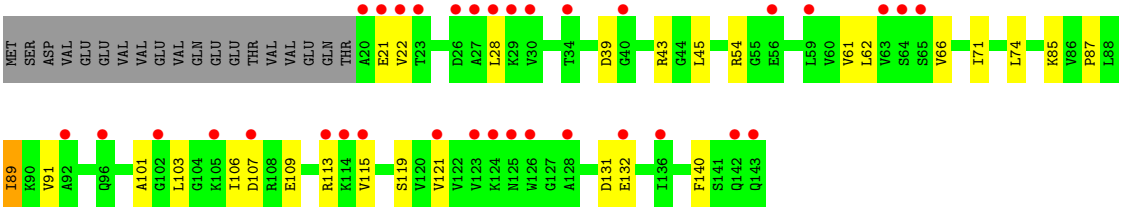
• Molecule 13: 40S ribosomal protein S11-A



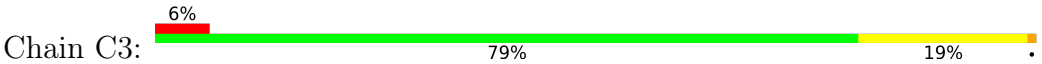
• Molecule 14: 40S ribosomal protein S12

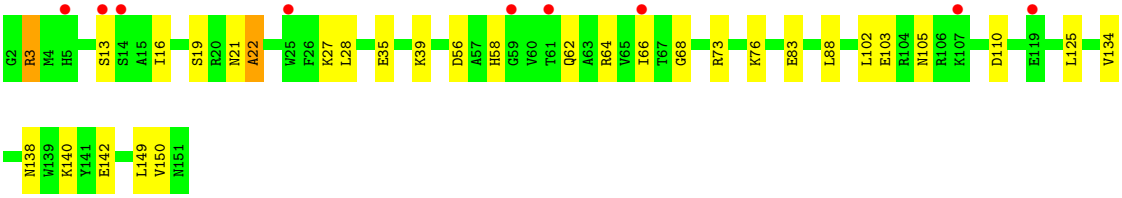


• Molecule 14: 40S ribosomal protein S12

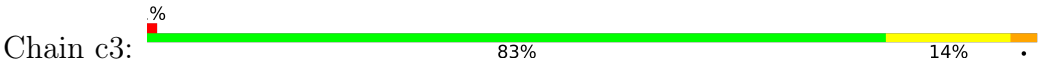


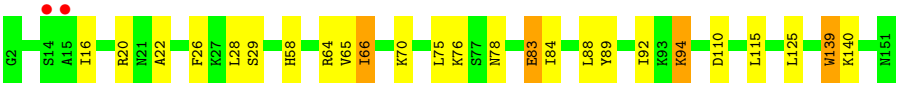
• Molecule 15: 40S ribosomal protein S13



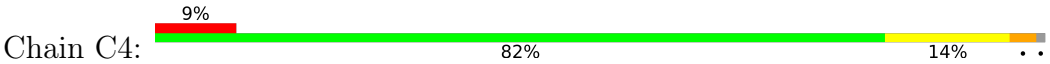


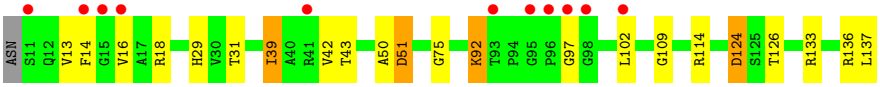
• Molecule 15: 40S ribosomal protein S13



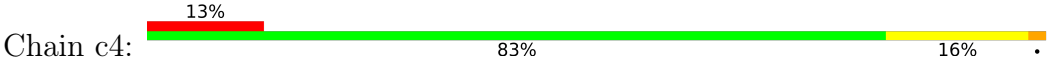


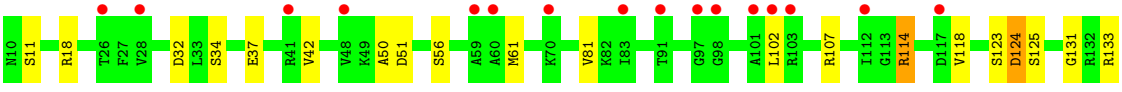
• Molecule 16: 40S ribosomal protein S14-B





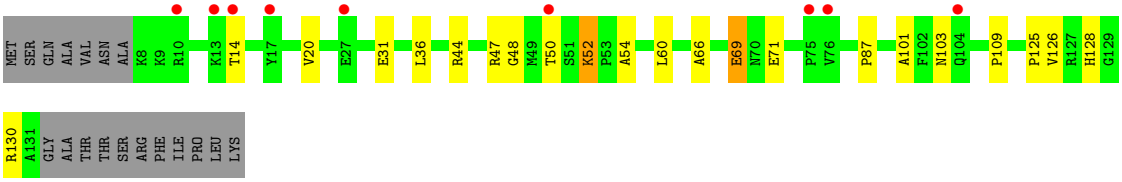
• Molecule 16: 40S ribosomal protein S14-B





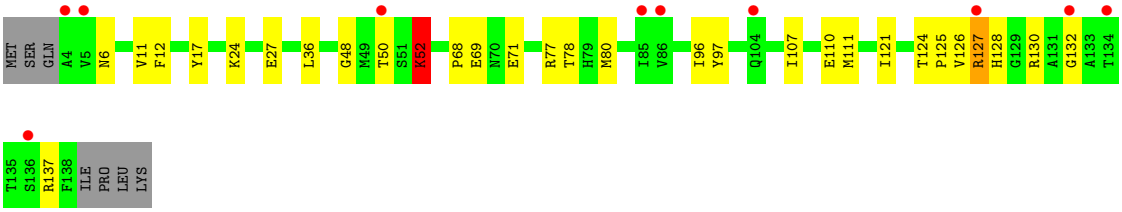
• Molecule 17: 40S ribosomal protein S15

Chain C5:



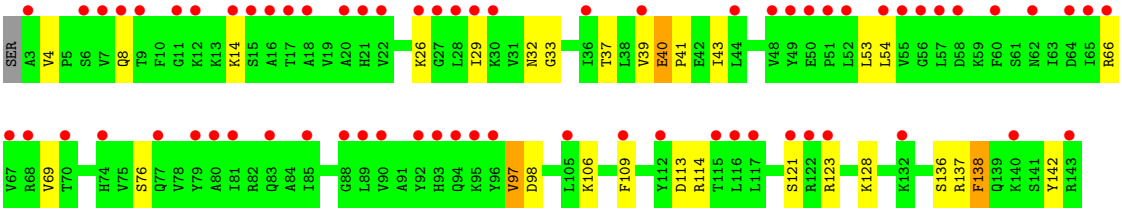
• Molecule 17: 40S ribosomal protein S15

Chain c5:



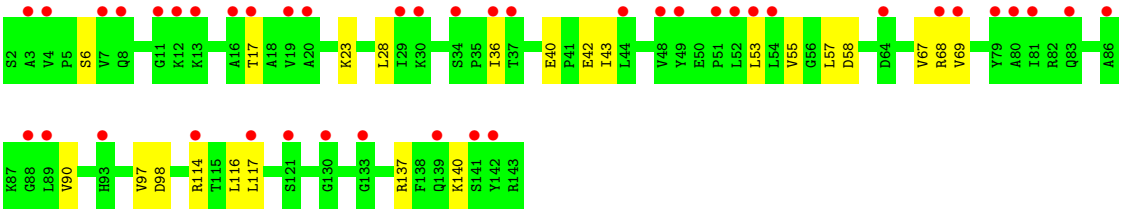
• Molecule 18: 40S ribosomal protein S16-A

Chain C6:



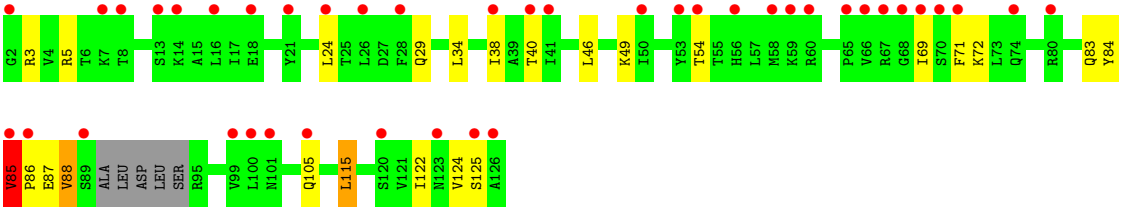
• Molecule 18: 40S ribosomal protein S16-A

Chain c6:



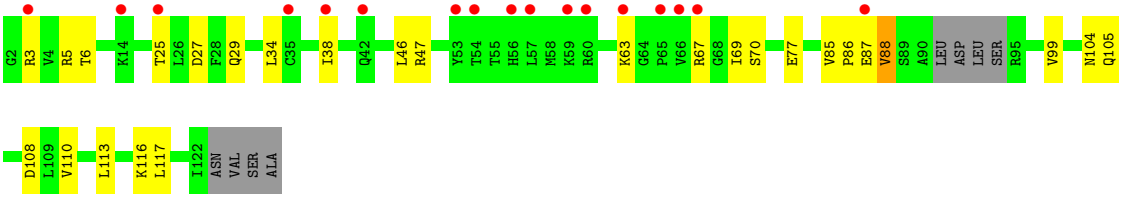
• Molecule 19: 40S ribosomal protein S17-B

Chain C7:



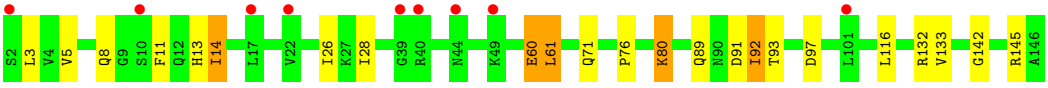
• Molecule 19: 40S ribosomal protein S17-B

Chain c7:



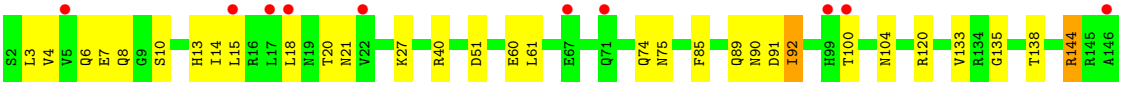
• Molecule 20: 40S ribosomal protein S18-A

Chain C8:



• Molecule 20: 40S ribosomal protein S18-A

Chain c8:

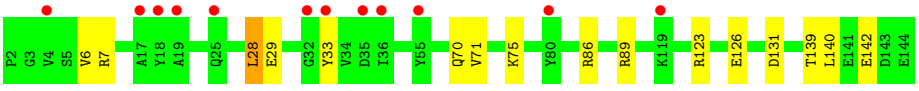


• Molecule 21: 40S ribosomal protein S19-A

Chain C9:

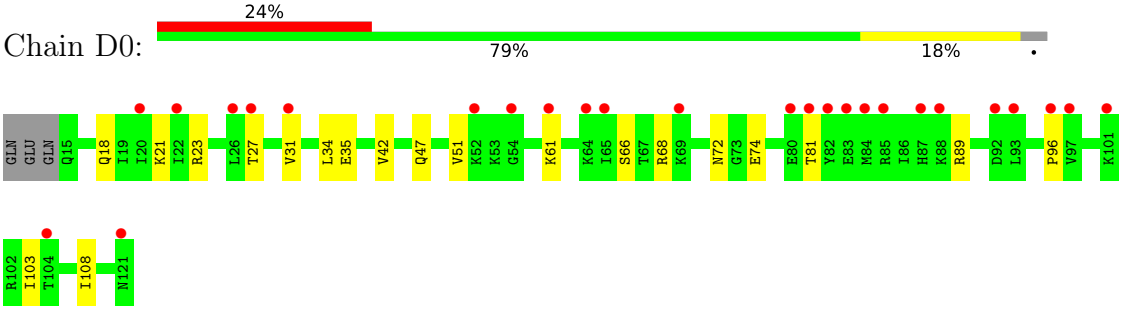
• Molecule 21: 40S ribosomal protein S19-A

Chain c9:



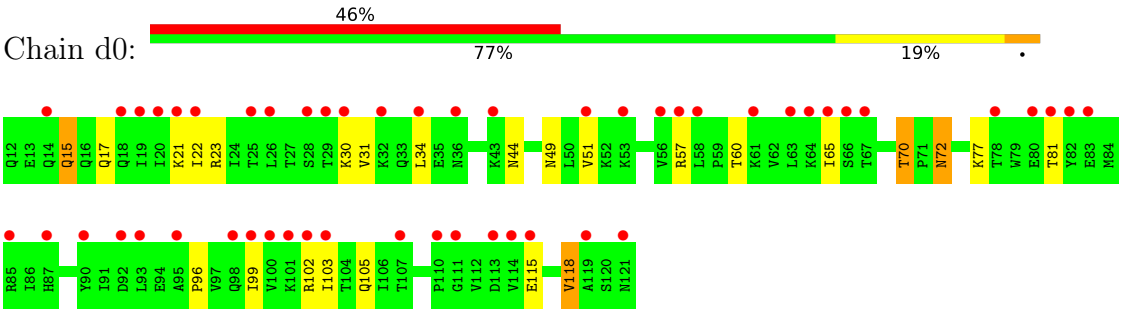
• Molecule 22: 40S ribosomal protein S20

Chain D0:



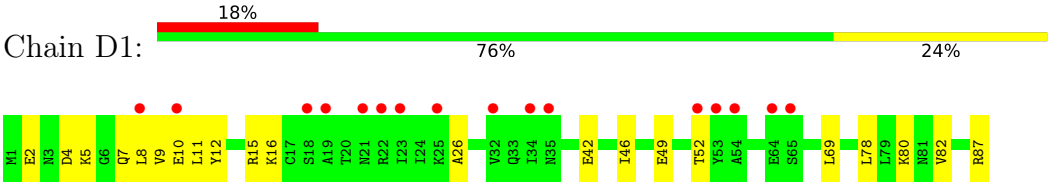
• Molecule 22: 40S ribosomal protein S20

Chain d0:



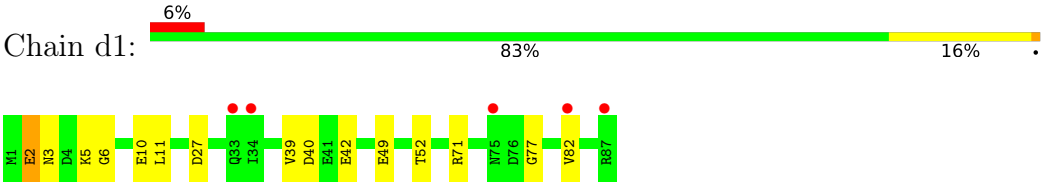
• Molecule 23: 40S ribosomal protein S21-A

Chain D1:



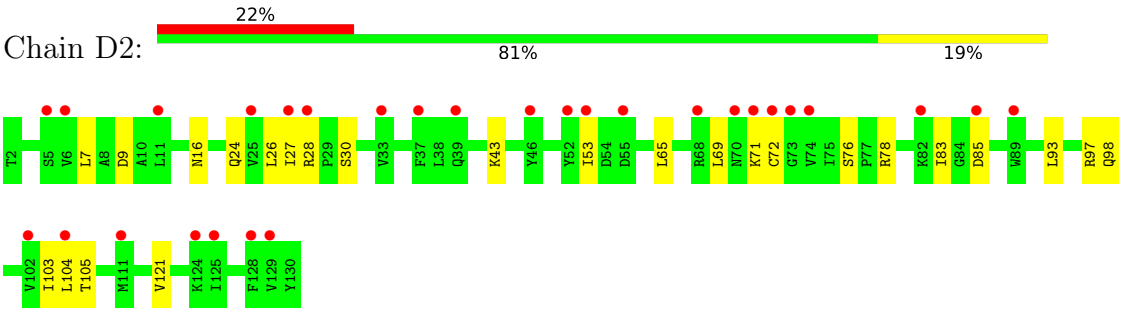
• Molecule 23: 40S ribosomal protein S21-A

Chain d1:



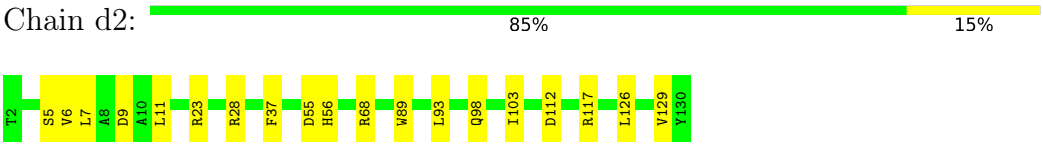
• Molecule 24: 40S ribosomal protein S22-A

Chain D2:



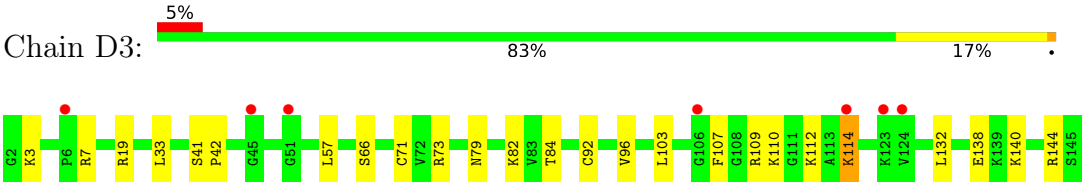
• Molecule 24: 40S ribosomal protein S22-A

Chain d2:



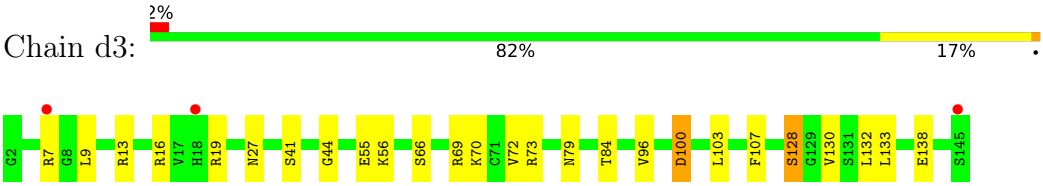
• Molecule 25: 40S ribosomal protein S23-A

Chain D3:



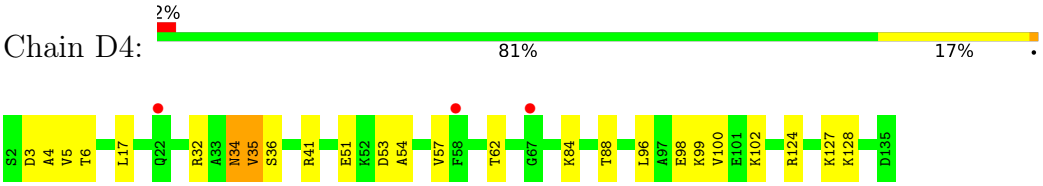
• Molecule 25: 40S ribosomal protein S23-A

Chain d3:



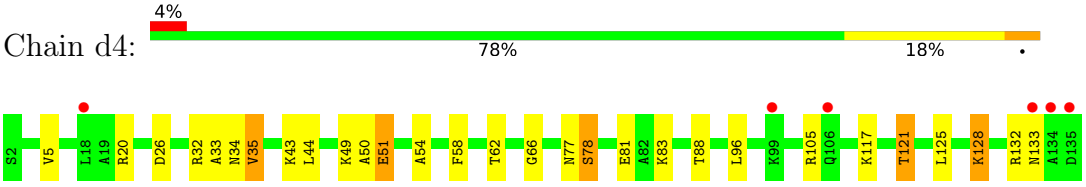
• Molecule 26: 40S ribosomal protein S24-A

Chain D4:



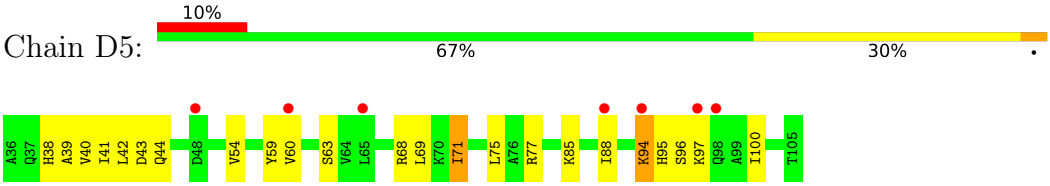
• Molecule 26: 40S ribosomal protein S24-A

Chain d4:



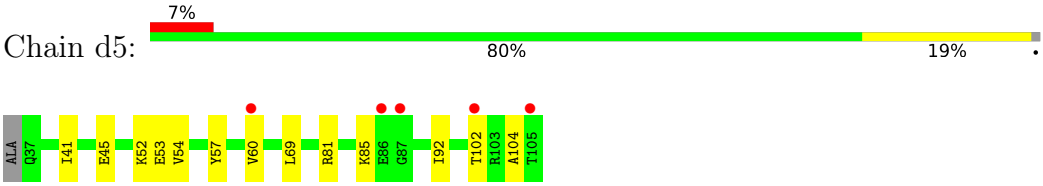
• Molecule 27: 40S ribosomal protein S25-A

Chain D5:



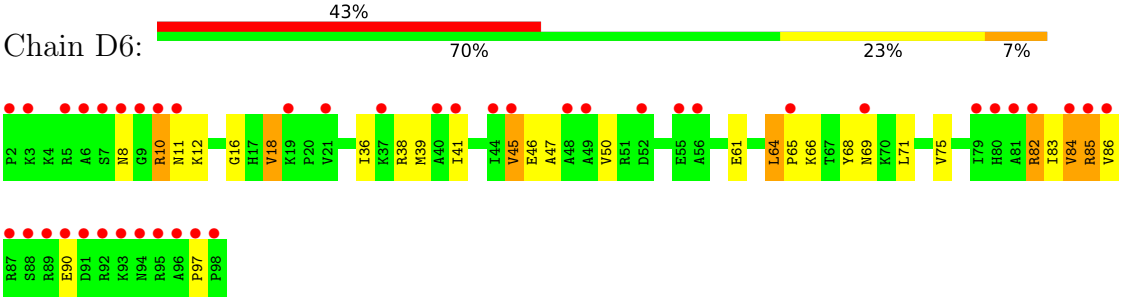
• Molecule 27: 40S ribosomal protein S25-A

Chain d5:



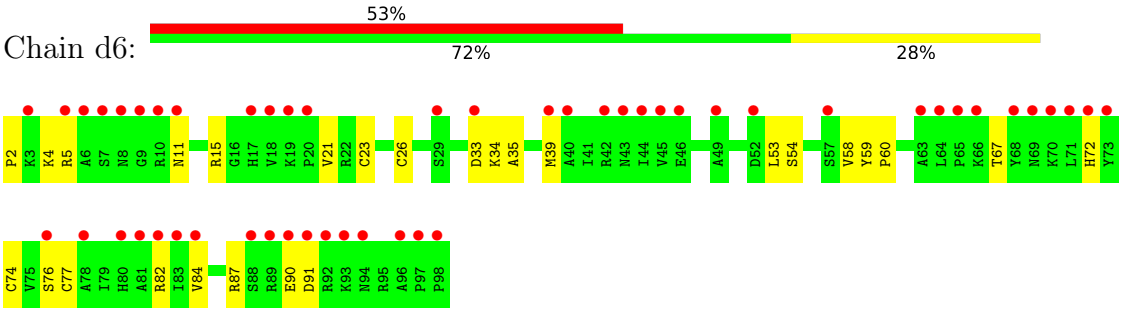
• Molecule 28: 40S ribosomal protein S26-B

Chain D6:



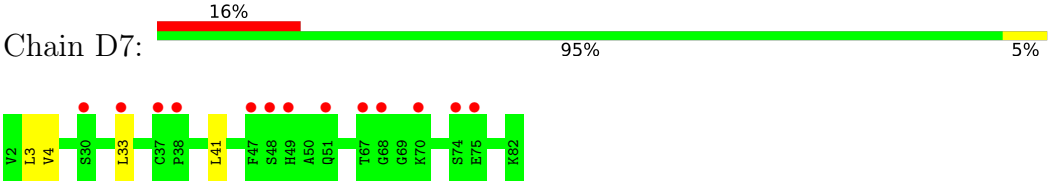
• Molecule 28: 40S ribosomal protein S26-B

Chain d6:



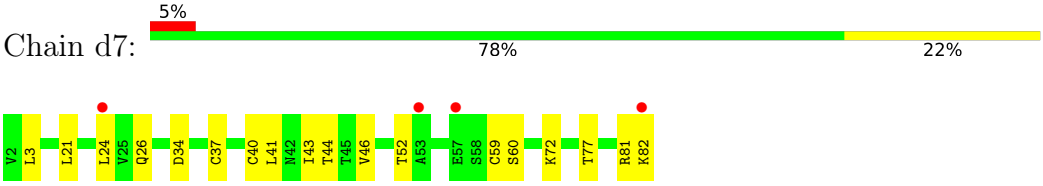
• Molecule 29: 40S ribosomal protein S27-A

Chain D7:



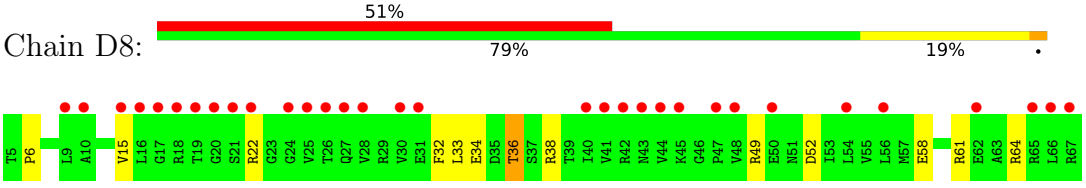
• Molecule 29: 40S ribosomal protein S27-A

Chain d7:



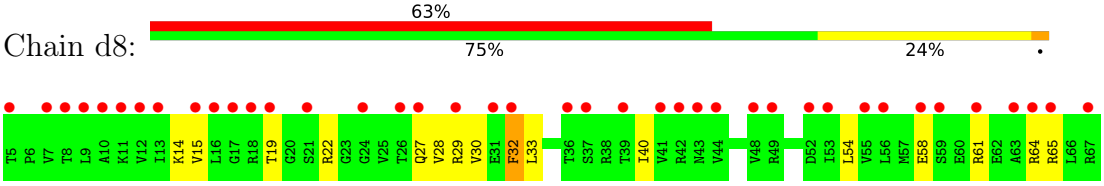
• Molecule 30: 40S ribosomal protein S28-A

Chain D8:



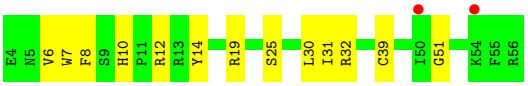
• Molecule 30: 40S ribosomal protein S28-A

Chain d8:



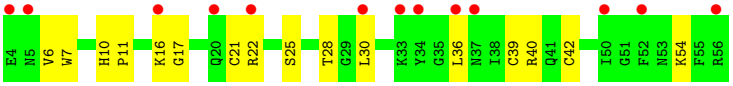
• Molecule 31: 40S ribosomal protein S29-A

Chain D9:



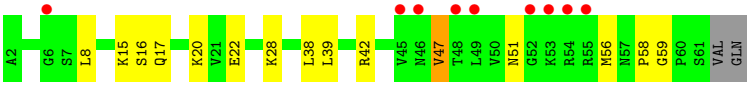
• Molecule 31: 40S ribosomal protein S29-A

Chain d9:



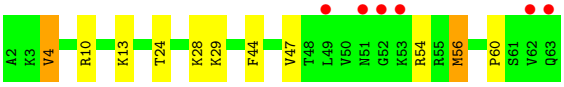
• Molecule 32: 40S ribosomal protein S30-A

Chain E0:



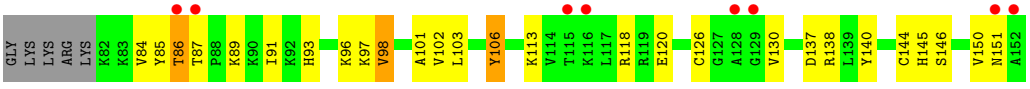
• Molecule 32: 40S ribosomal protein S30-A

Chain e0:



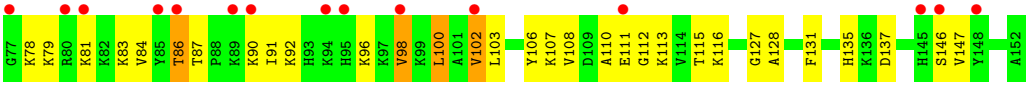
• Molecule 33: 40S ribosomal protein S31

Chain E1:



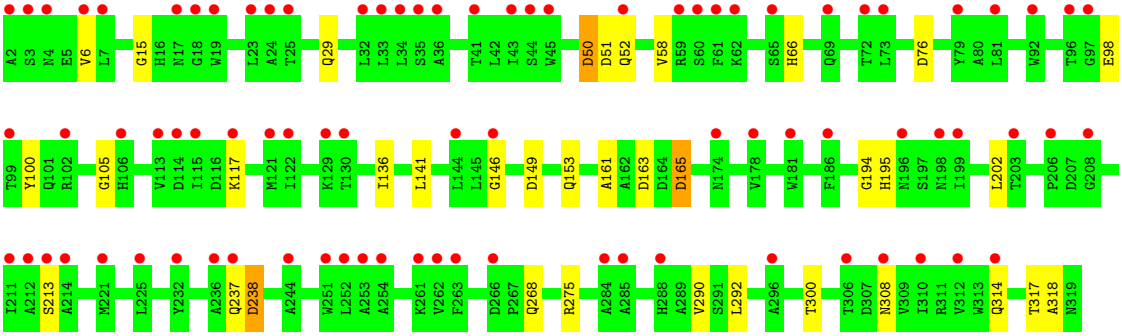
• Molecule 33: 40S ribosomal protein S31

Chain e1:



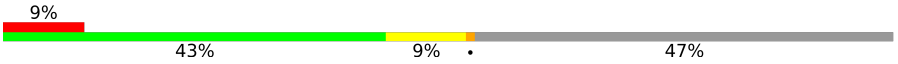
• Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

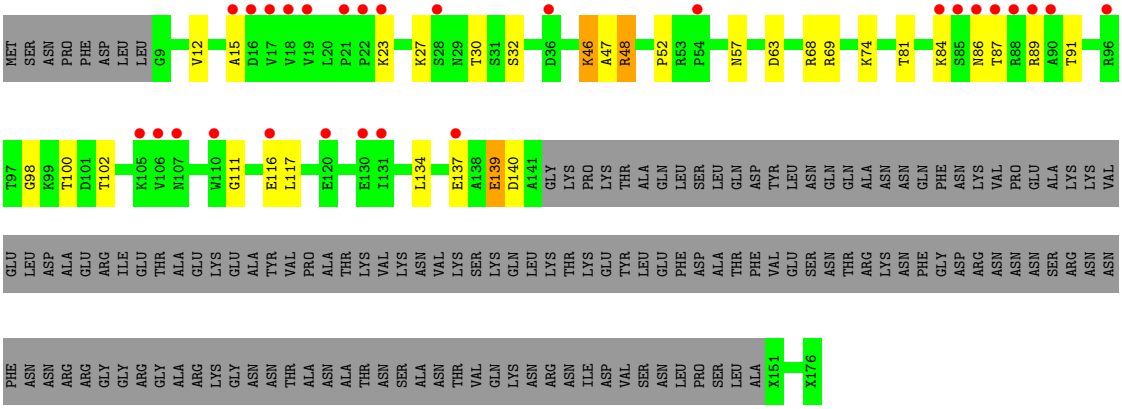
Chain SR:



• Molecule 35: Suppressor protein STM1,Ribosome-bound protein Stm1,Suppressor protein STM1,Ribosome-bound protein Stm1

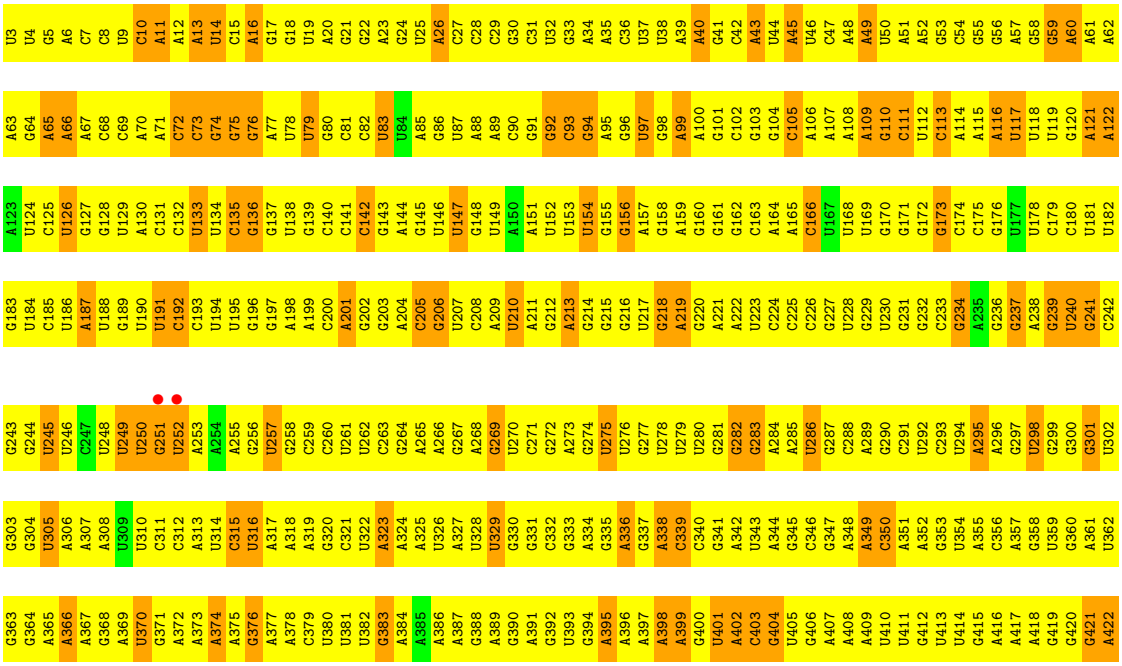
Chain SM:

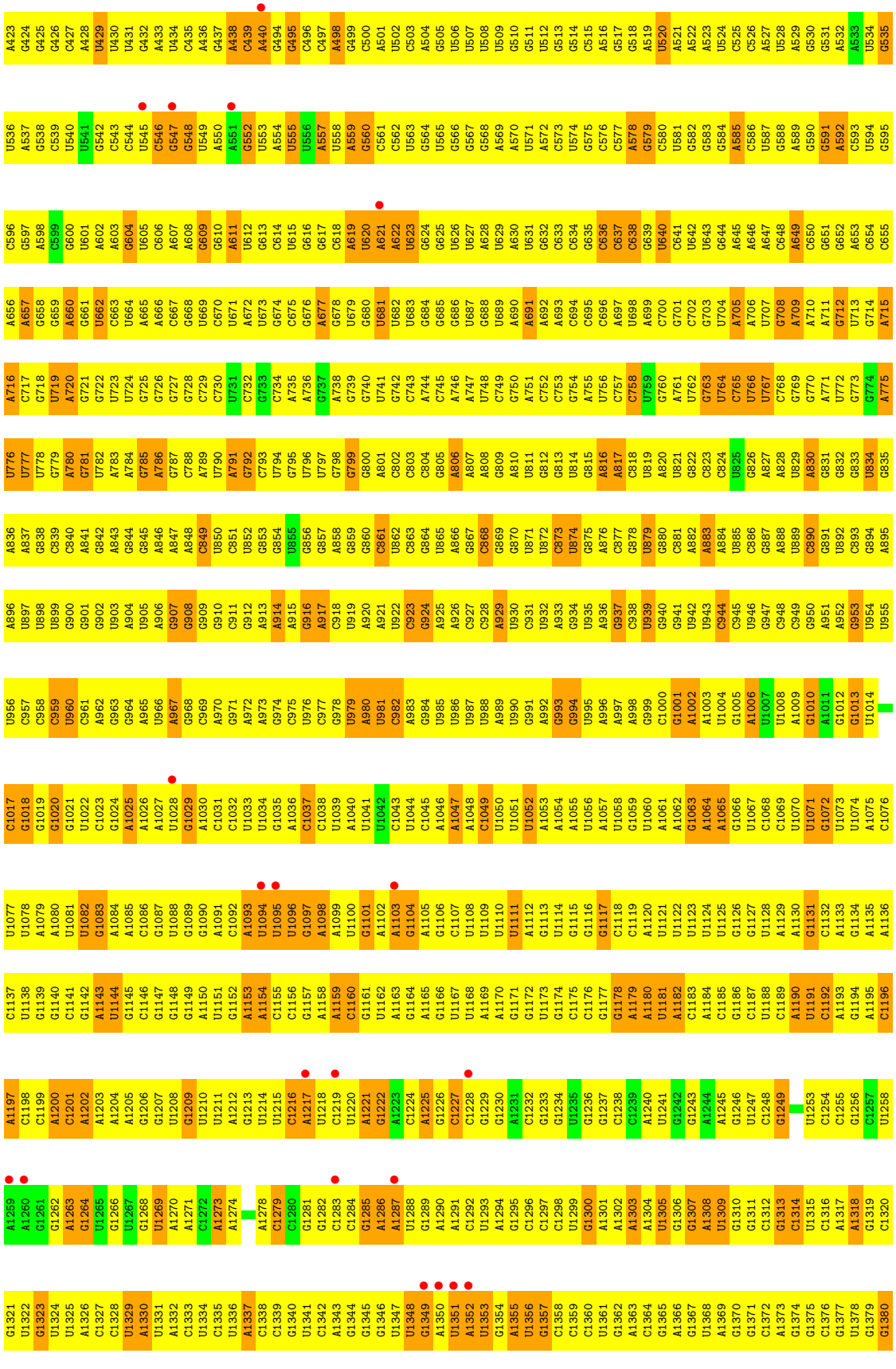


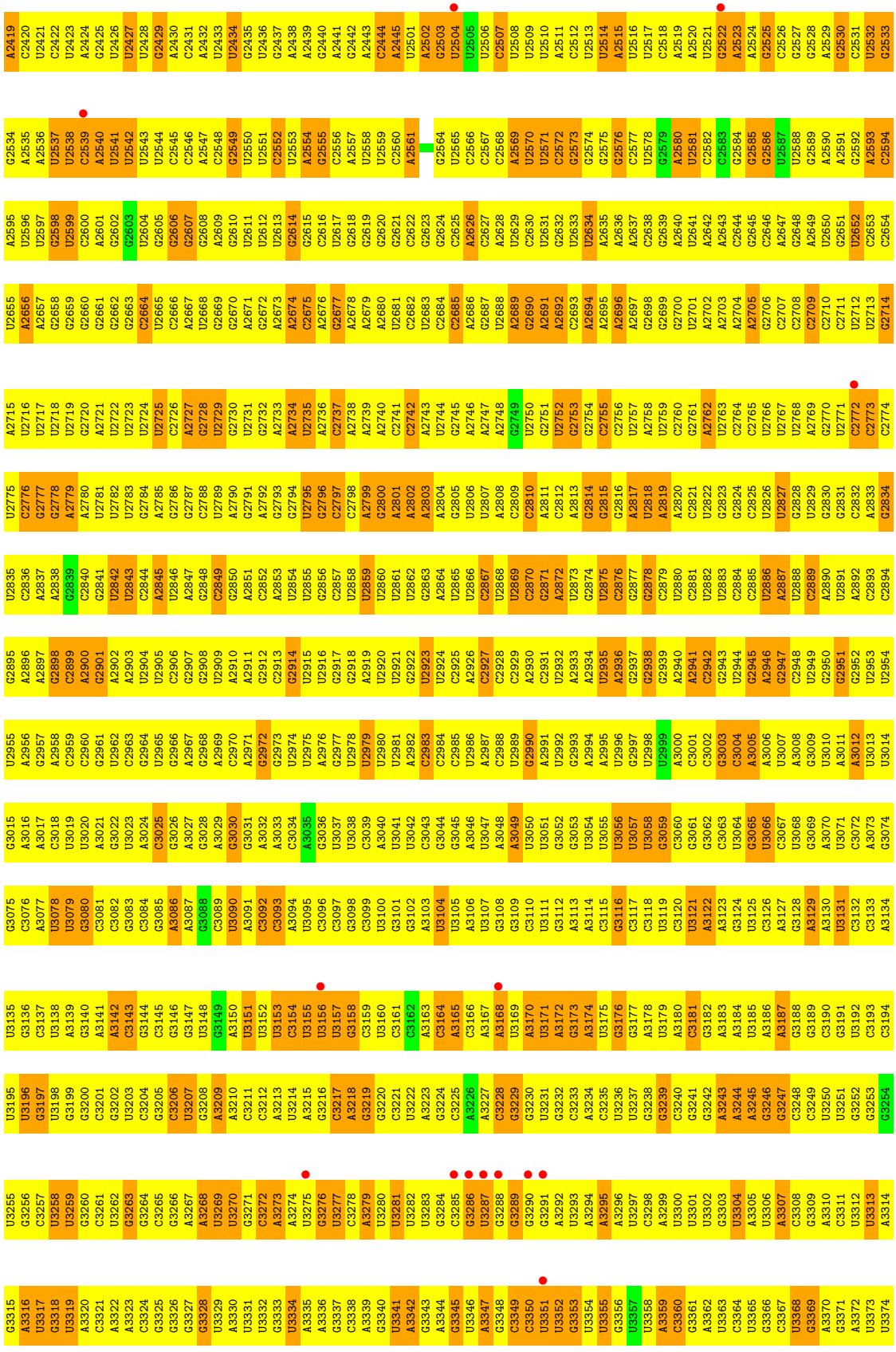


• Molecule 36: 25S ribosomal RNA

Chain 1:





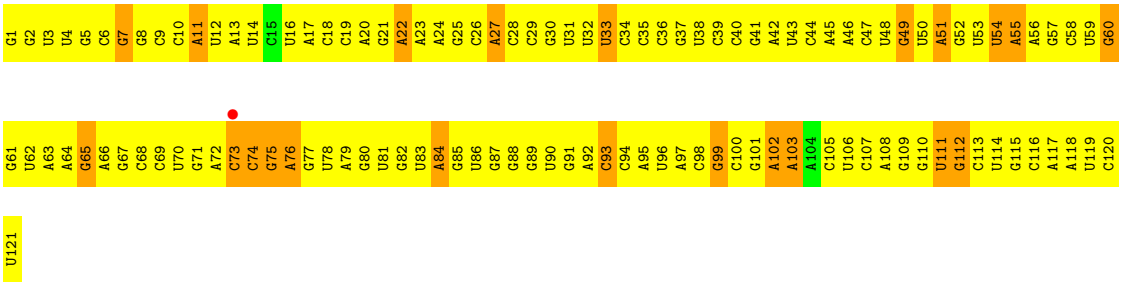


• Molecule 37: 5S ribosomal RNA

Chain 3:

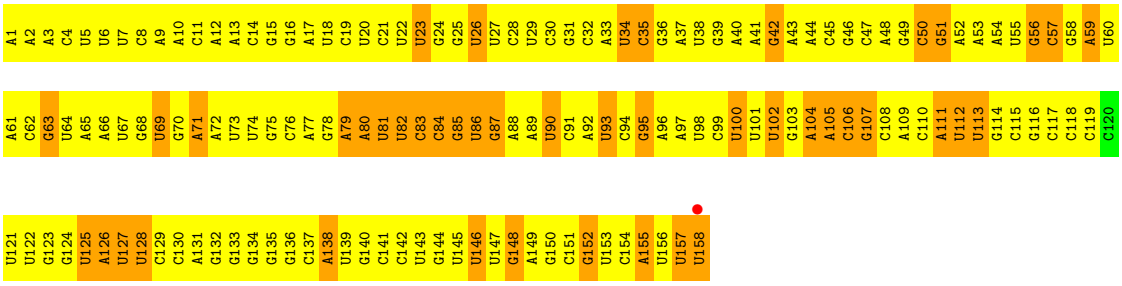
• Molecule 37: 5S ribosomal RNA

Chain 7:



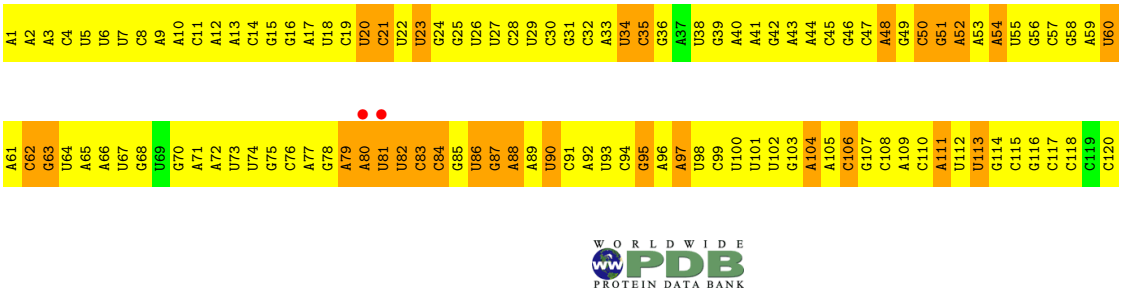
• Molecule 38: 5.8S ribosomal RNA

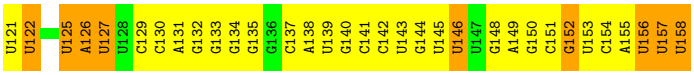
Chain 4:



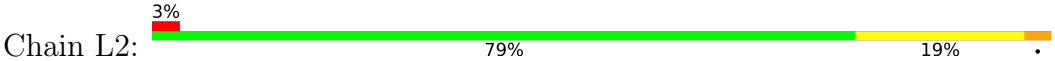
• Molecule 38: 5.8S ribosomal RNA

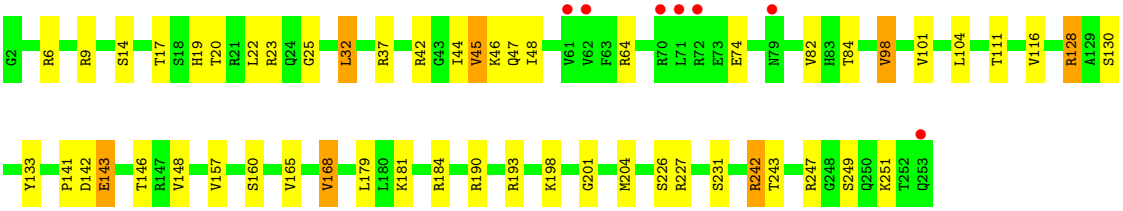
Chain 8:



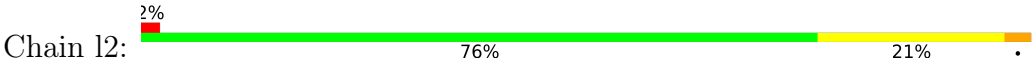


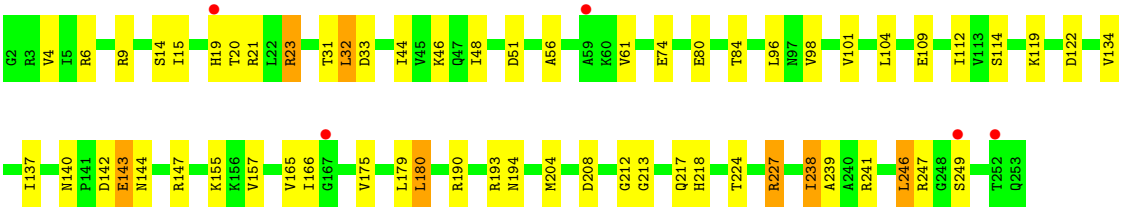
• Molecule 39: 60S ribosomal protein L2-A



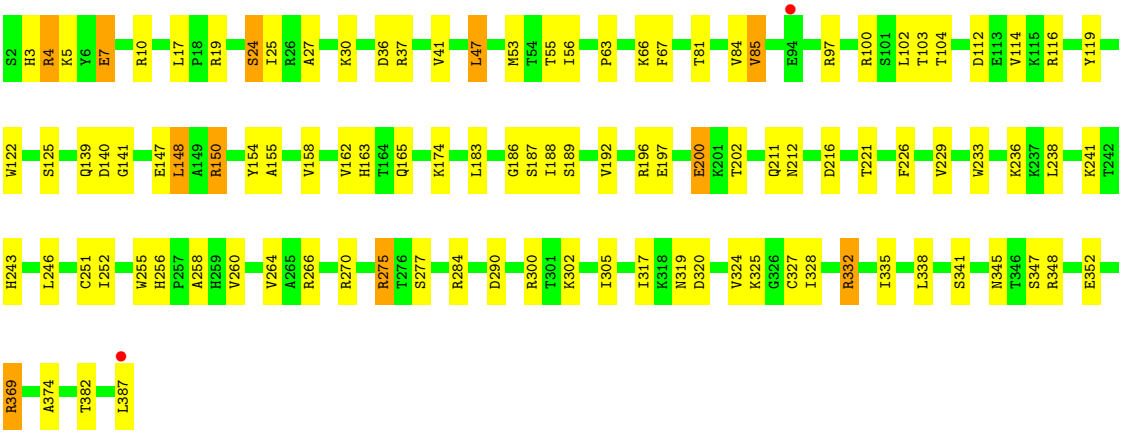


• Molecule 39: 60S ribosomal protein L2-A

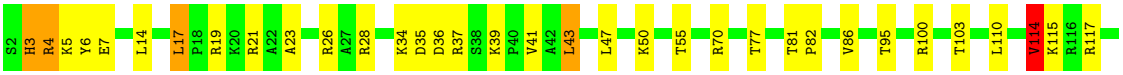


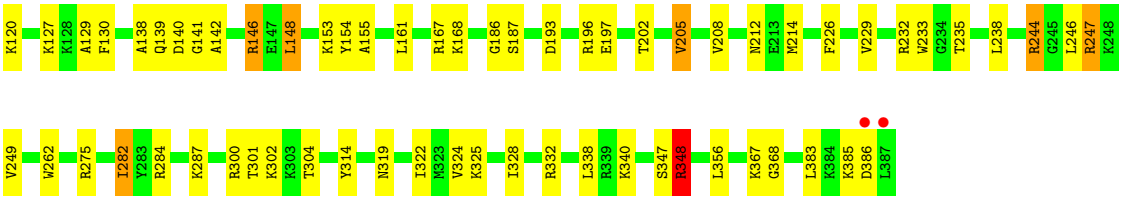


• Molecule 40: 60S ribosomal protein L3



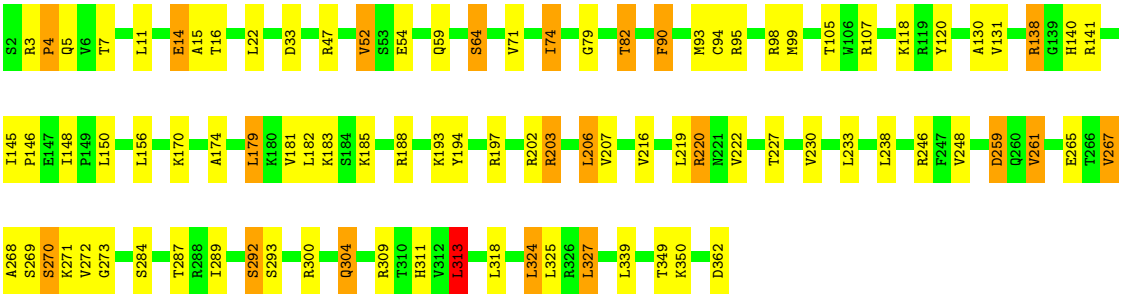
• Molecule 40: 60S ribosomal protein L3





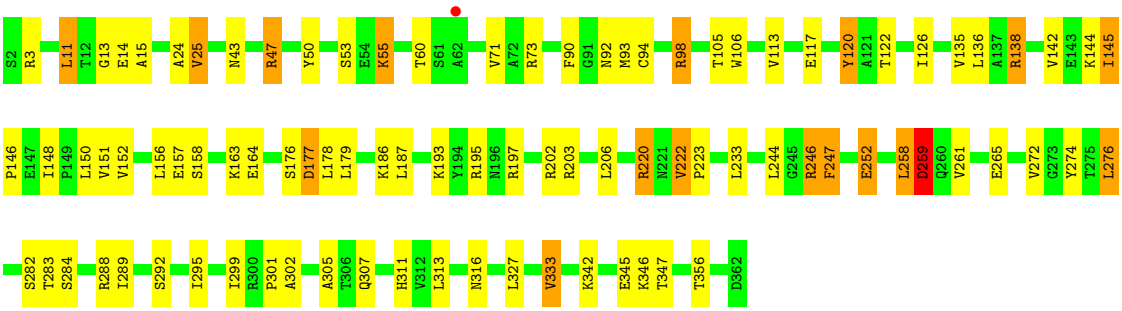
• Molecule 41: 60S ribosomal protein L4-A

Chain L4:



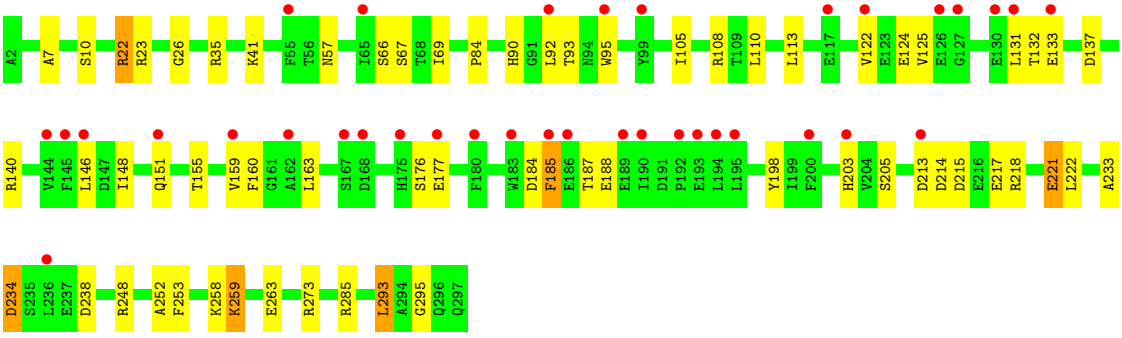
• Molecule 41: 60S ribosomal protein L4-A

Chain l4:



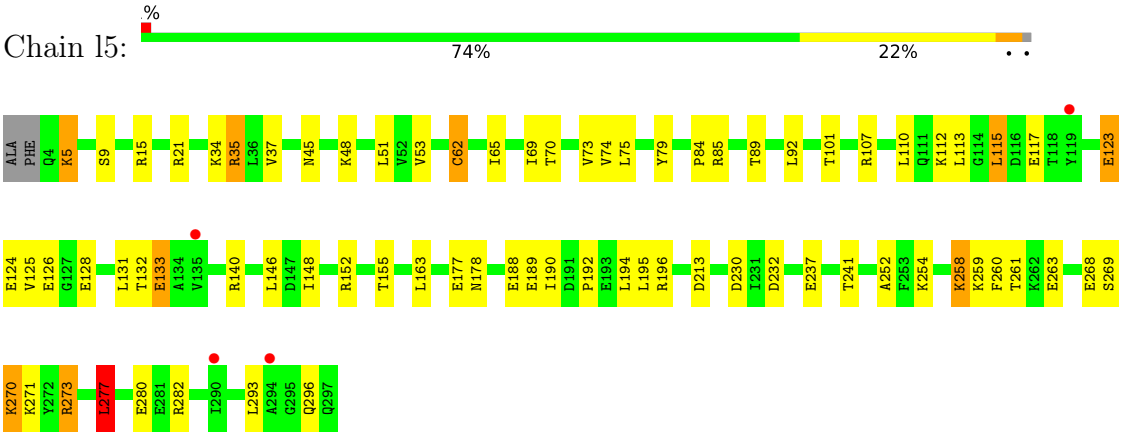
• Molecule 42: 60S ribosomal protein L5

Chain L5:



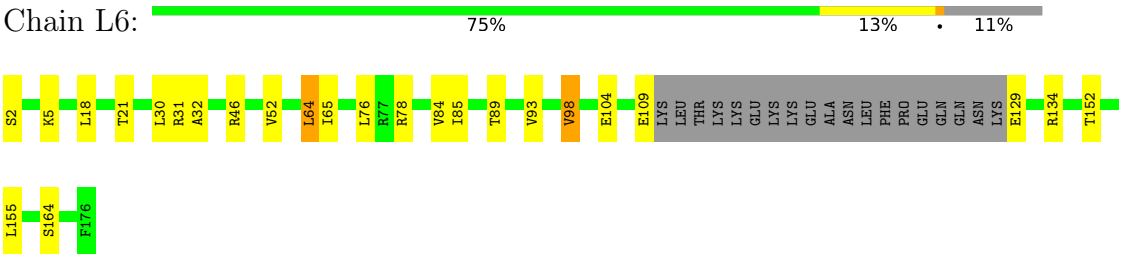
• Molecule 42: 60S ribosomal protein L5

Chain l5:



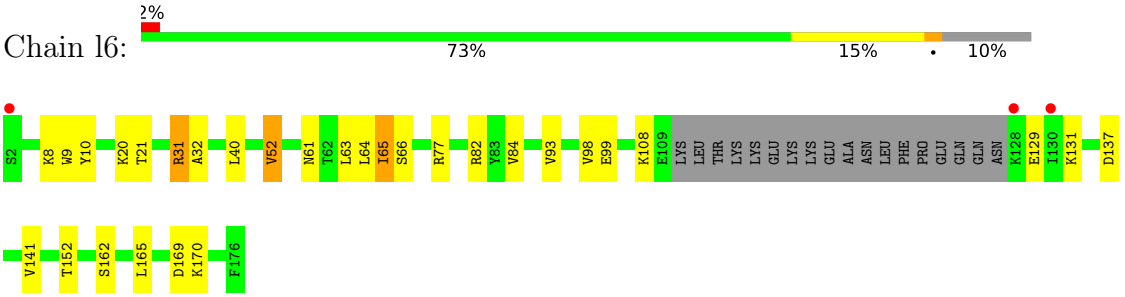
• Molecule 43: 60S ribosomal protein L6-A

Chain L6:



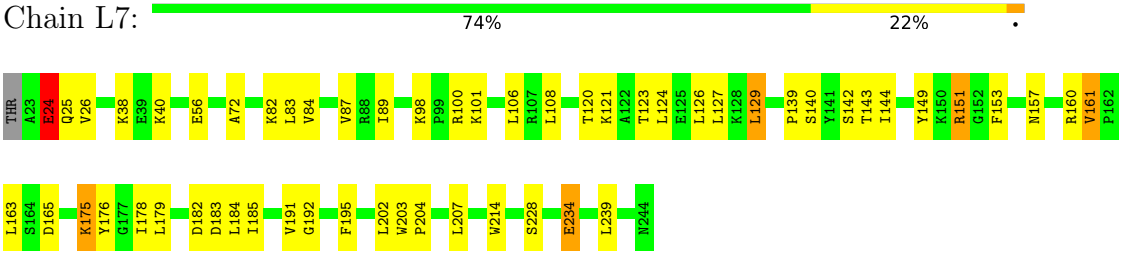
• Molecule 43: 60S ribosomal protein L6-A

Chain l6:



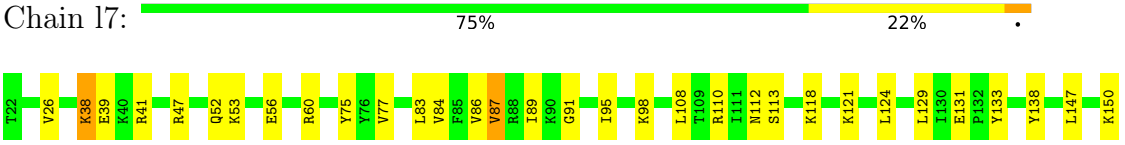
• Molecule 44: 60S ribosomal protein L7-A

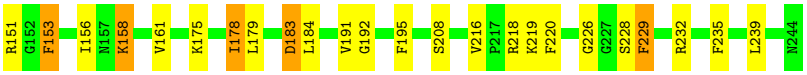
Chain L7:



• Molecule 44: 60S ribosomal protein L7-A

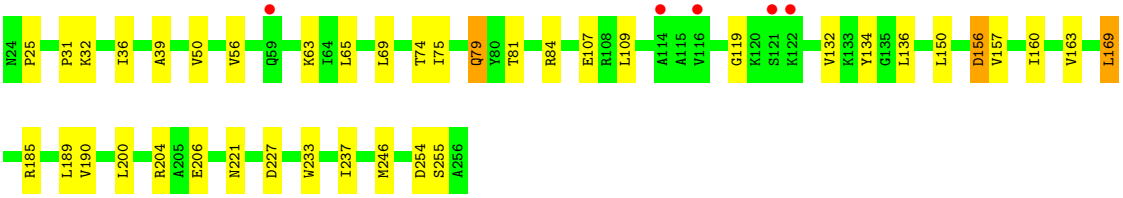
Chain l7:





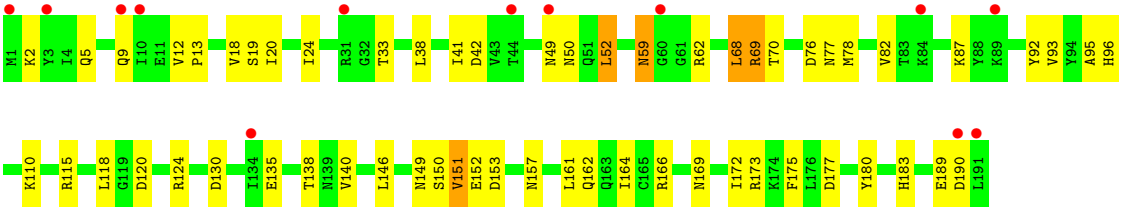
• Molecule 45: 60S ribosomal protein L8-A

Chain L8:



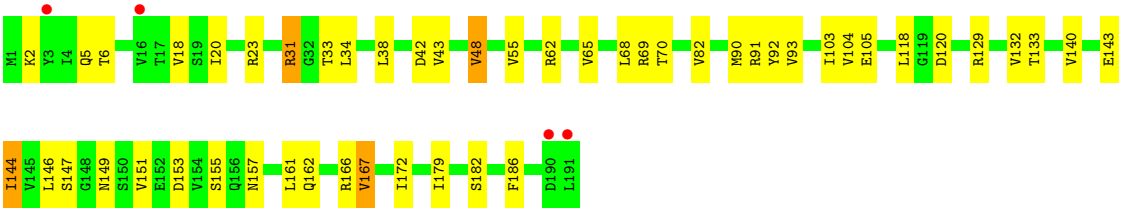
• Molecule 46: 60S ribosomal protein L9-A

Chain L9:



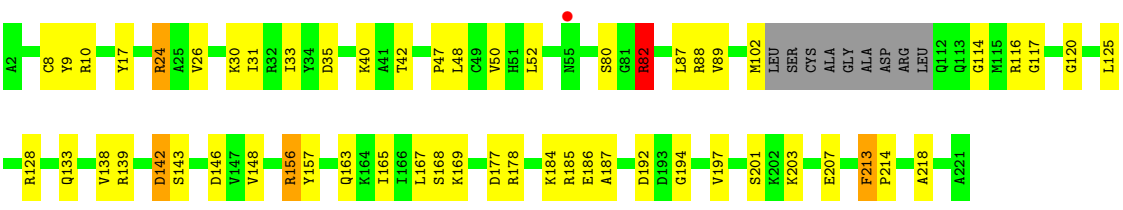
• Molecule 46: 60S ribosomal protein L9-A

Chain l9:



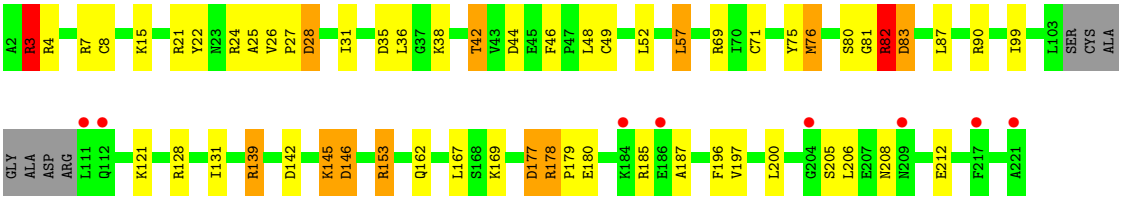
• Molecule 47: 60S ribosomal protein L10

Chain M0:

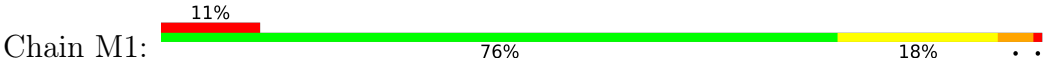


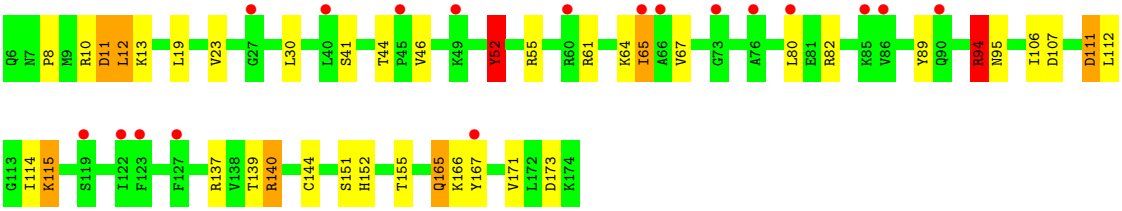
• Molecule 47: 60S ribosomal protein L10

Chain m0:

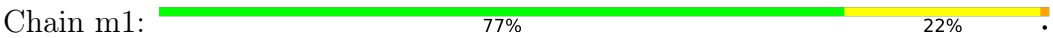


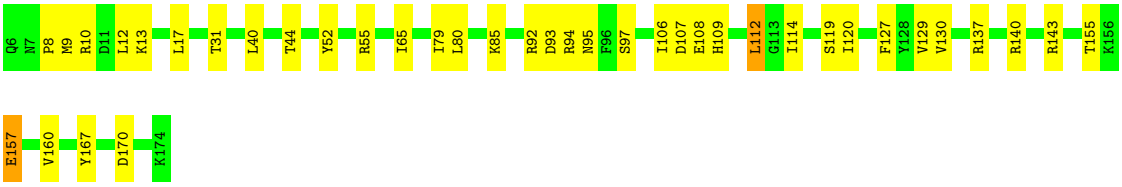
• Molecule 48: 60S ribosomal protein L11-B



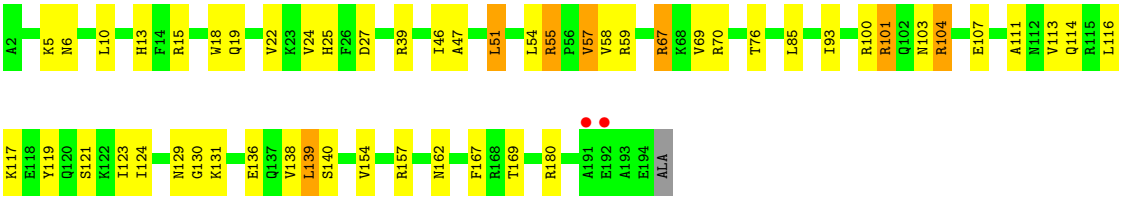


• Molecule 48: 60S ribosomal protein L11-B

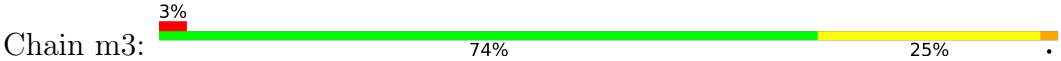


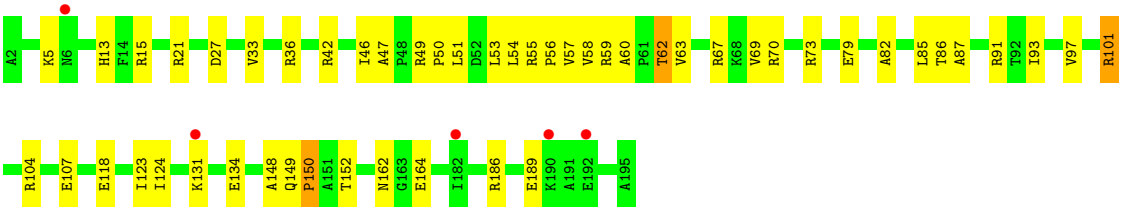


• Molecule 49: 60S ribosomal protein L13-A



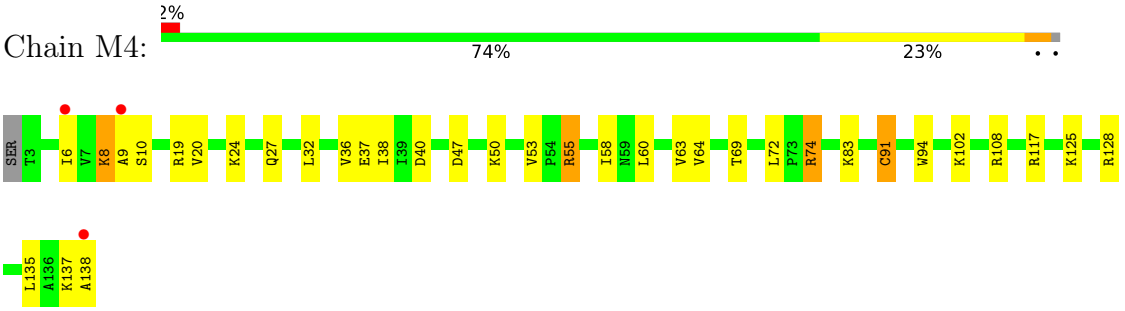
• Molecule 49: 60S ribosomal protein L13-A





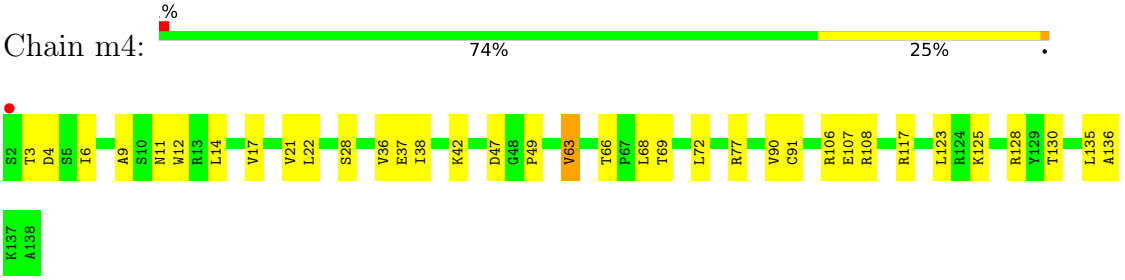
• Molecule 50: 60S ribosomal protein L14-A

Chain M4:



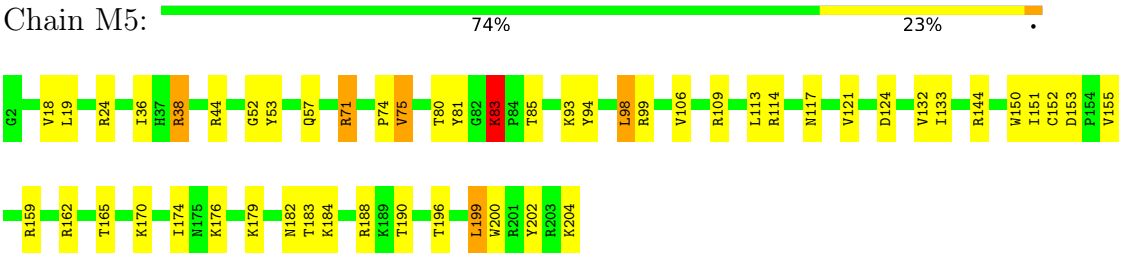
• Molecule 50: 60S ribosomal protein L14-A

Chain m4:



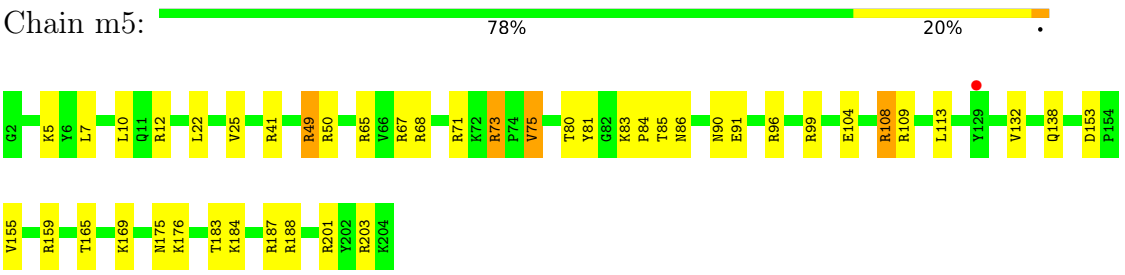
• Molecule 51: 60S ribosomal protein L15-A

Chain M5:



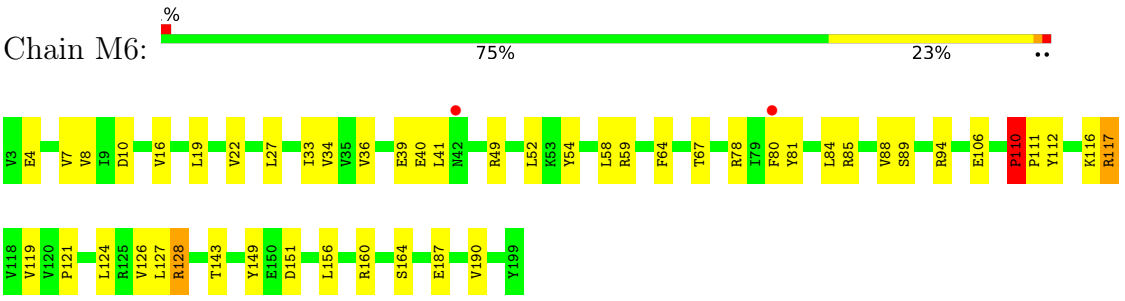
• Molecule 51: 60S ribosomal protein L15-A

Chain m5:



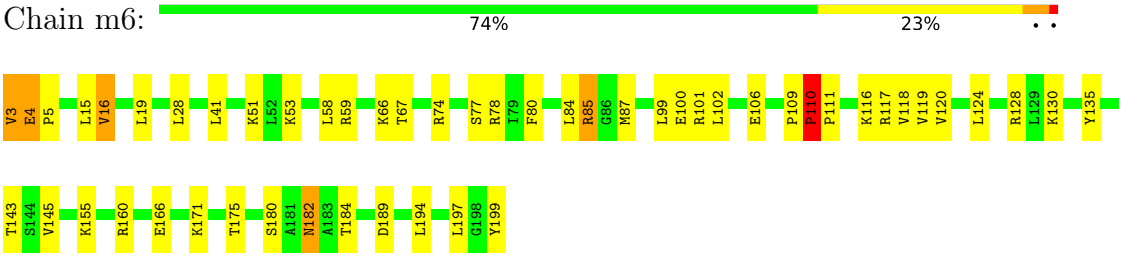
• Molecule 52: 60S ribosomal protein L16-A

Chain M6:



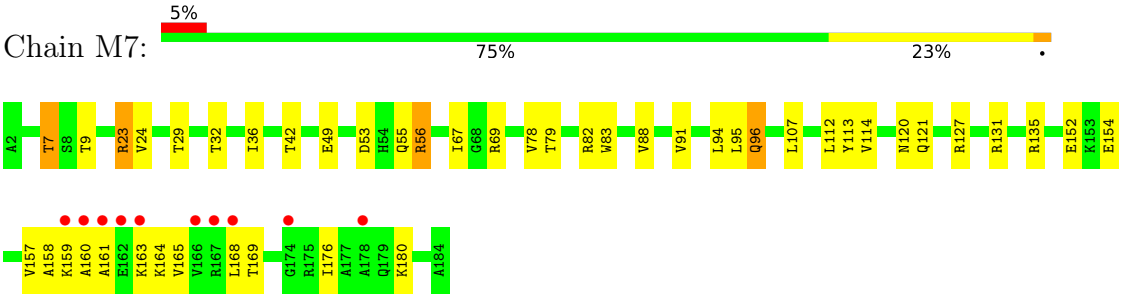
• Molecule 52: 60S ribosomal protein L16-A

Chain m6:



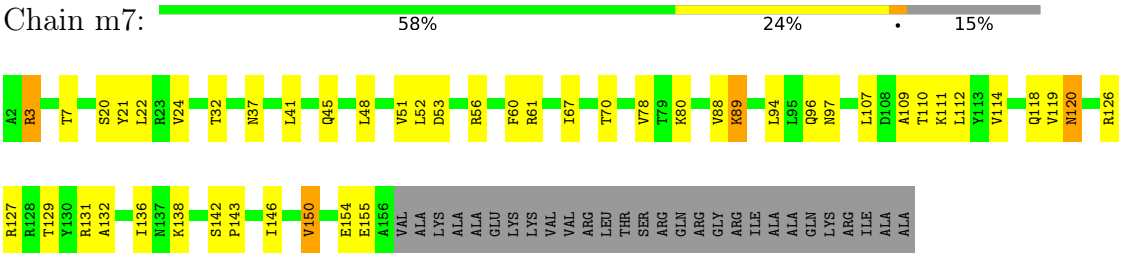
• Molecule 53: 60S ribosomal protein L17-A

Chain M7:



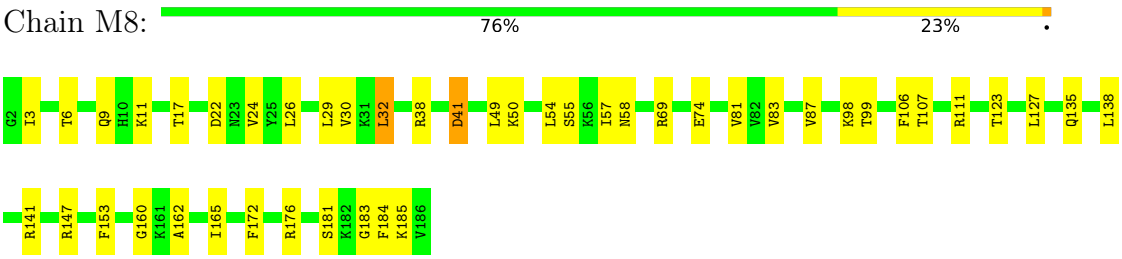
• Molecule 53: 60S ribosomal protein L17-A

Chain m7:



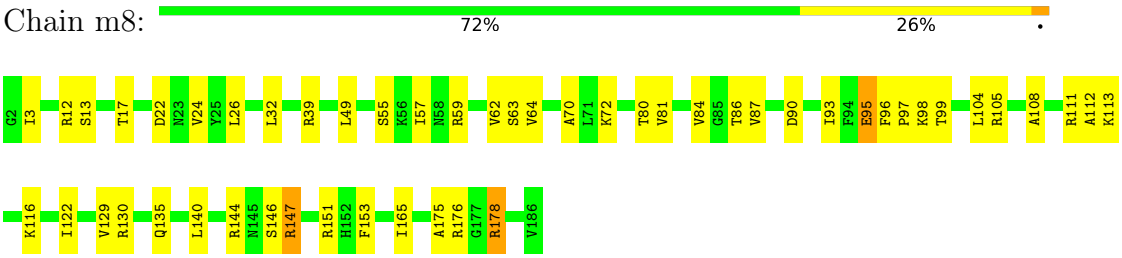
• Molecule 54: 60S ribosomal protein L18-A

Chain M8:



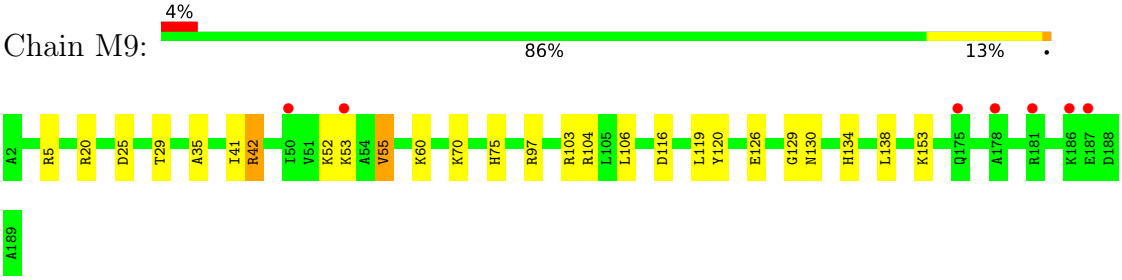
• Molecule 54: 60S ribosomal protein L18-A

Chain m8:



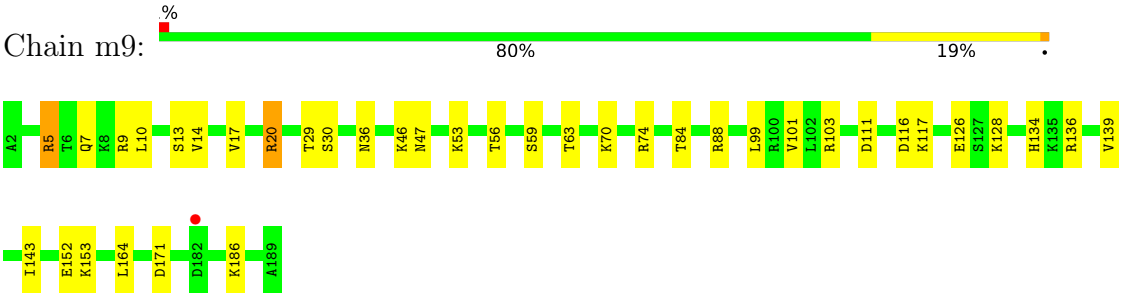
• Molecule 55: 60S ribosomal protein L19-A

Chain M9:



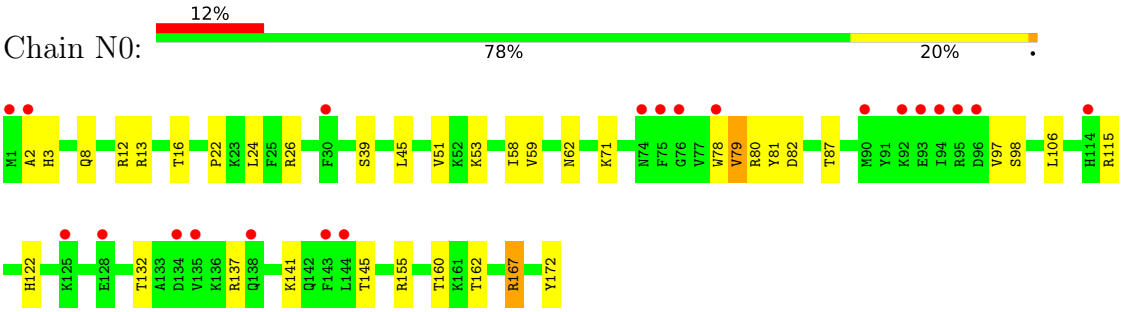
• Molecule 55: 60S ribosomal protein L19-A

Chain m9:



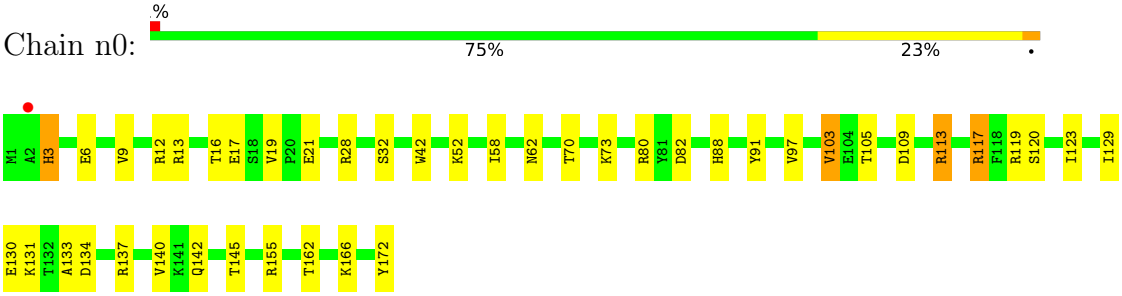
• Molecule 56: 60S ribosomal protein L20-A

Chain N0:



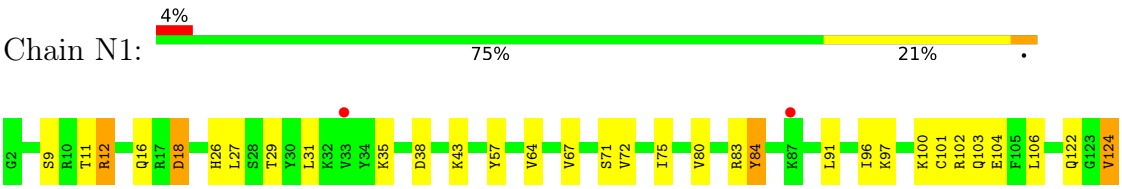
• Molecule 56: 60S ribosomal protein L20-A

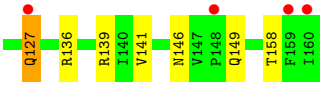
Chain n0:



• Molecule 57: 60S ribosomal protein L21-A

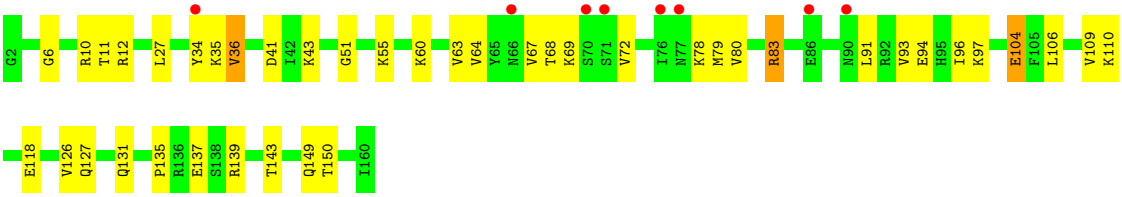
Chain N1:





• Molecule 57: 60S ribosomal protein L21-A

Chain n1:



• Molecule 58: 60S ribosomal protein L22-A

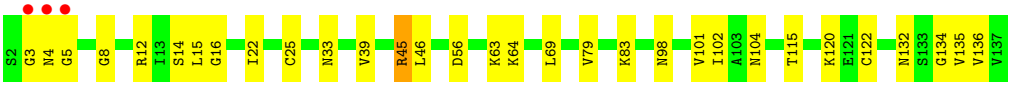
Chain N2:

• Molecule 58: 60S ribosomal protein L22-A

Chain n2:

• Molecule 59: 60S ribosomal protein L23-A

Chain N3:

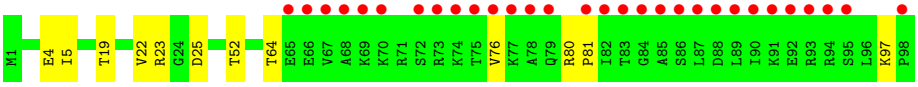


• Molecule 59: 60S ribosomal protein L23-A

Chain n3:

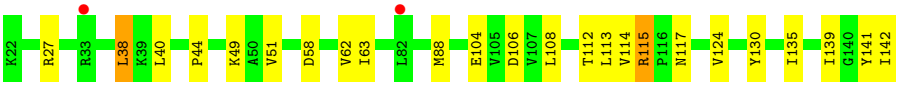
• Molecule 60: 60S ribosomal protein L24-A

Chain N4:



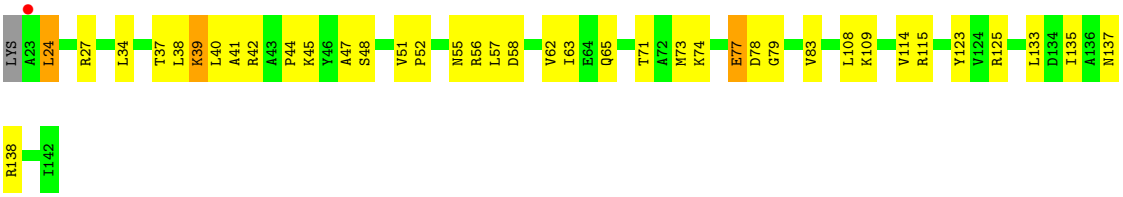
• Molecule 61: 60S ribosomal protein L25

Chain N5:



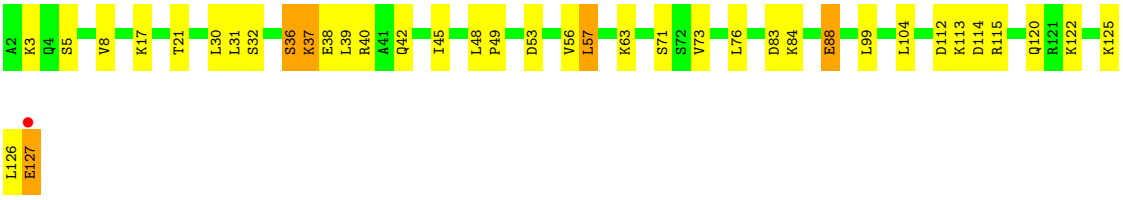
• Molecule 61: 60S ribosomal protein L25

Chain n5:



• Molecule 62: 60S ribosomal protein L26-A

Chain N6:

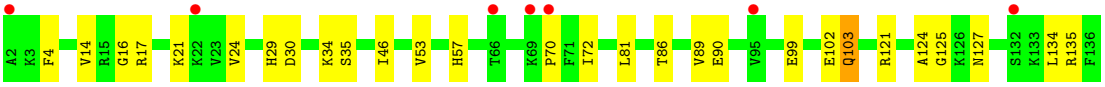


• Molecule 62: 60S ribosomal protein L26-A

Chain n6:

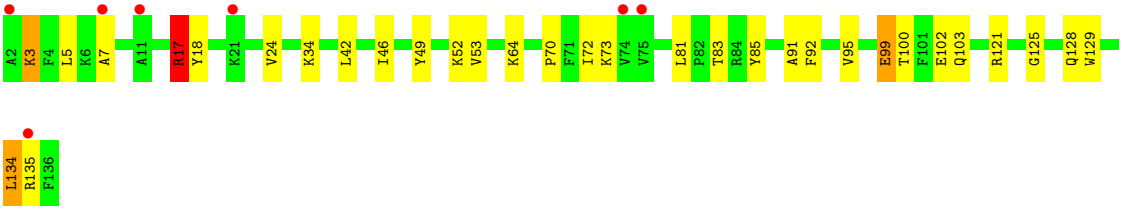
• Molecule 63: 60S ribosomal protein L27-A

Chain N7:



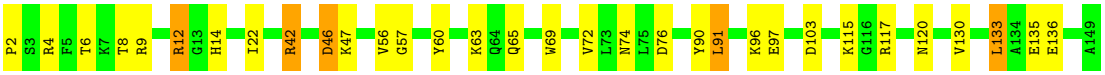
• Molecule 63: 60S ribosomal protein L27-A

Chain n7:



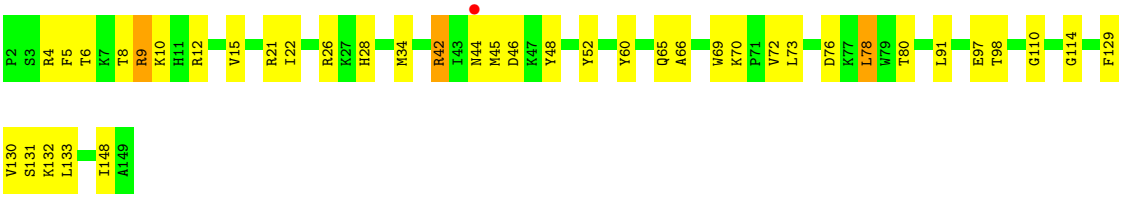
• Molecule 64: 60S ribosomal protein L28

Chain N8:



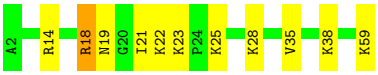
• Molecule 64: 60S ribosomal protein L28

Chain n8:



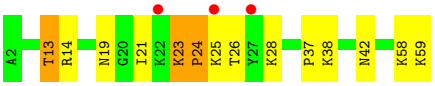
• Molecule 65: 60S ribosomal protein L29

Chain N9:



• Molecule 65: 60S ribosomal protein L29

Chain n9:

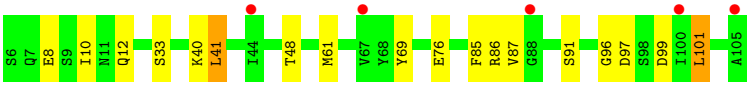


• Molecule 66: 60S ribosomal protein L30

Chain O0:

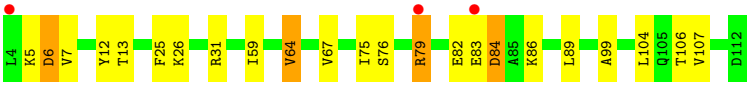
• Molecule 66: 60S ribosomal protein L30

Chain o0:



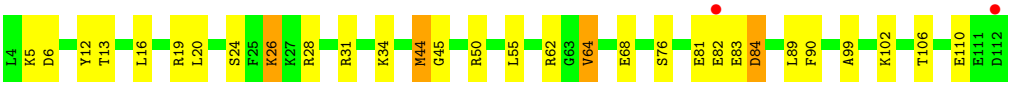
• Molecule 67: 60S ribosomal protein L31-A

Chain O1:



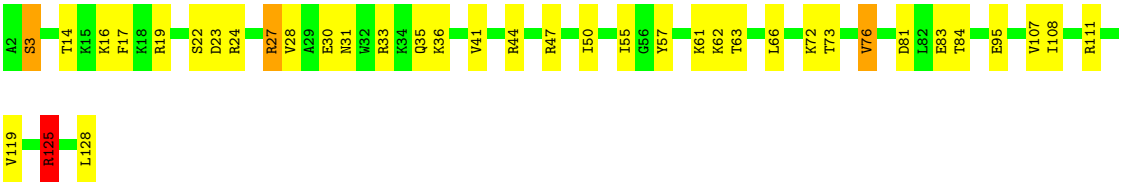
• Molecule 67: 60S ribosomal protein L31-A

Chain o1:



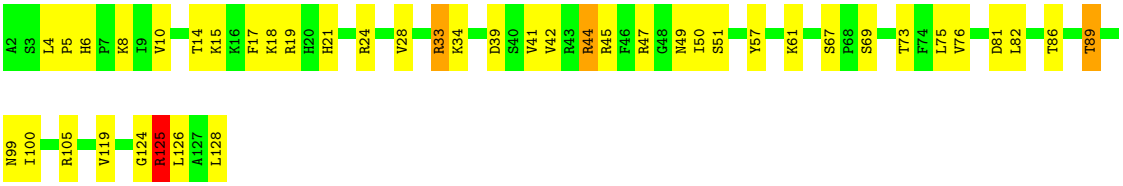
• Molecule 68: 60S ribosomal protein L32

Chain O2:



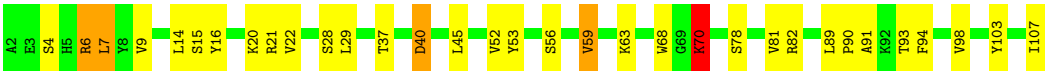
• Molecule 68: 60S ribosomal protein L32

Chain o2:



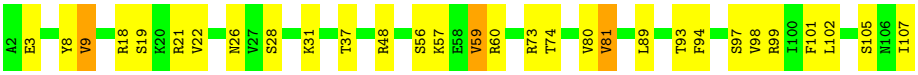
• Molecule 69: 60S ribosomal protein L33-A

Chain O3:



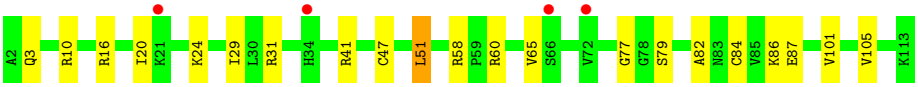
• Molecule 69: 60S ribosomal protein L33-A

Chain o3:



• Molecule 70: 60S ribosomal protein L34-A

Chain O4:



• Molecule 70: 60S ribosomal protein L34-A

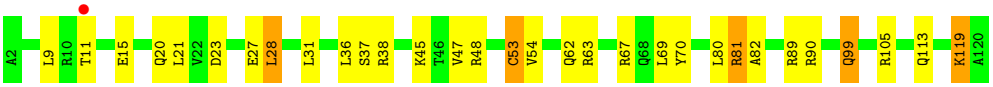
Chain o4:

• Molecule 71: 60S ribosomal protein L35-A

Chain O5:

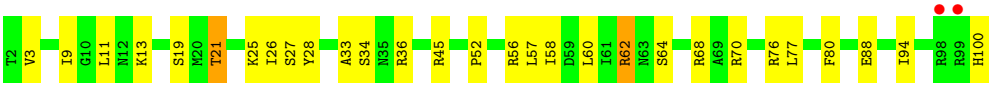
• Molecule 71: 60S ribosomal protein L35-A

Chain o5:



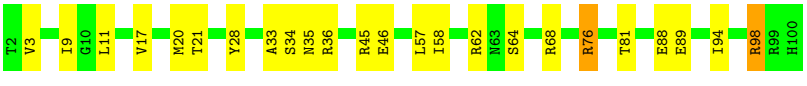
• Molecule 72: 60S ribosomal protein L36-A

Chain O6:



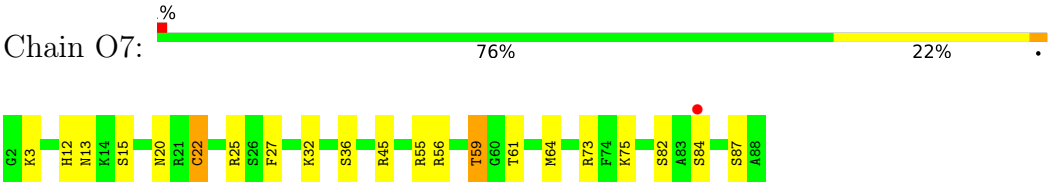
• Molecule 72: 60S ribosomal protein L36-A

Chain o6:



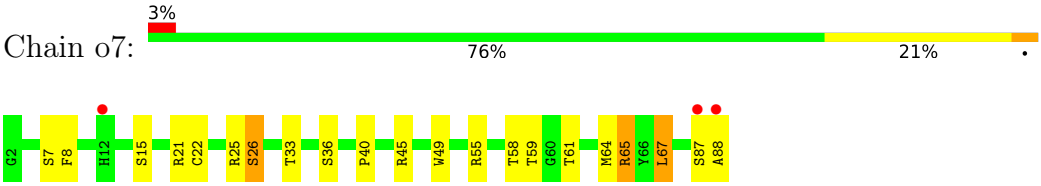
• Molecule 73: 60S ribosomal protein L37-A

Chain O7:



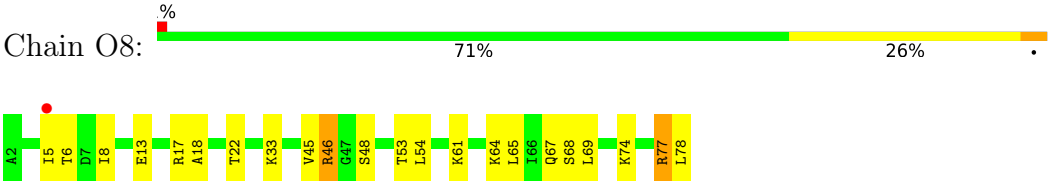
• Molecule 73: 60S ribosomal protein L37-A

Chain o7:



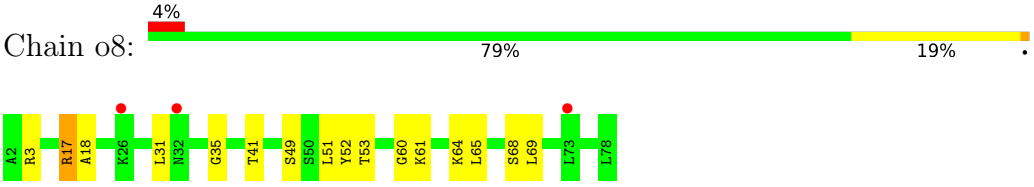
• Molecule 74: 60S ribosomal protein L38

Chain O8:



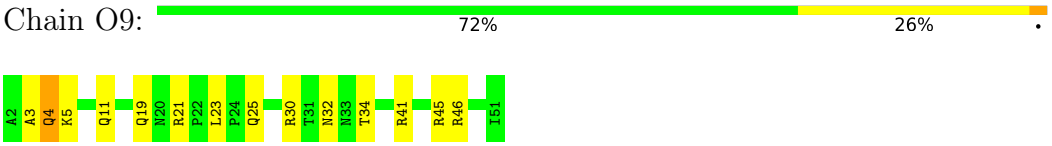
• Molecule 74: 60S ribosomal protein L38

Chain o8:



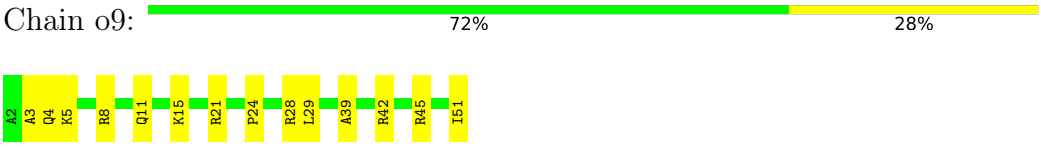
• Molecule 75: 60S ribosomal protein L39

Chain O9:



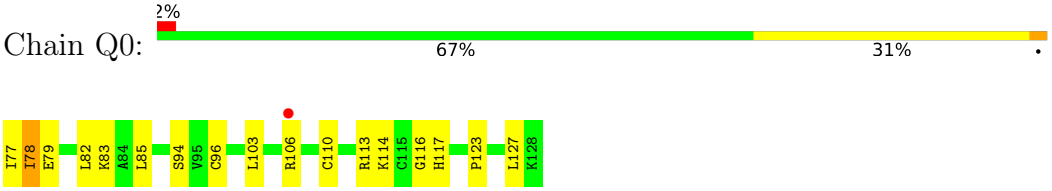
• Molecule 75: 60S ribosomal protein L39

Chain o9:



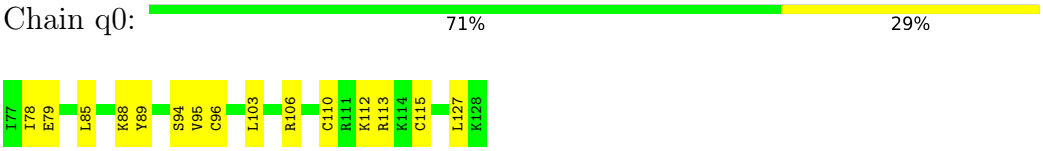
• Molecule 76: 60S ribosomal protein L40-A

Chain Q0:



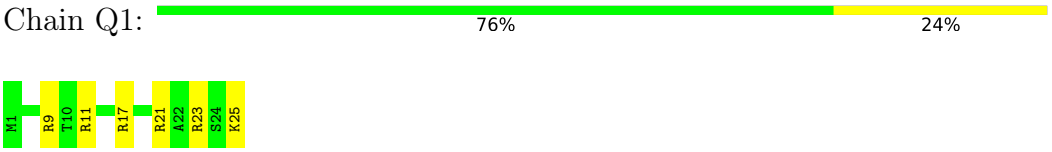
• Molecule 76: 60S ribosomal protein L40-A

Chain q0:



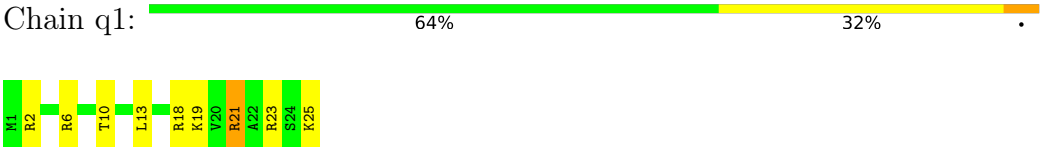
• Molecule 77: 60S ribosomal protein L41-A

Chain Q1:



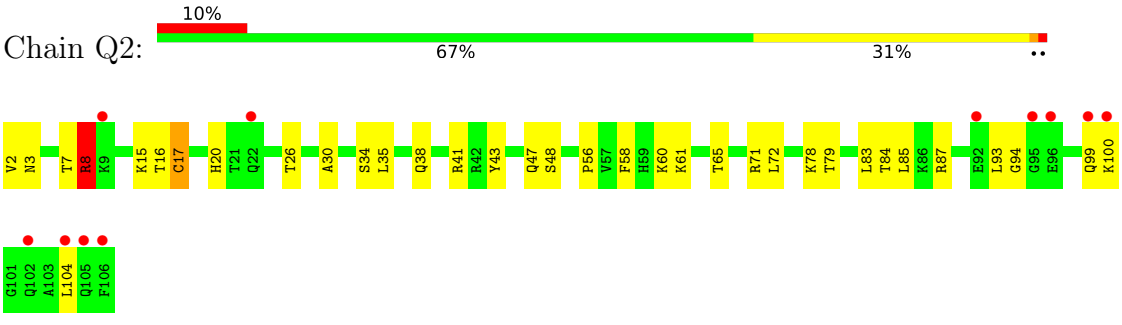
• Molecule 77: 60S ribosomal protein L41-A

Chain q1:



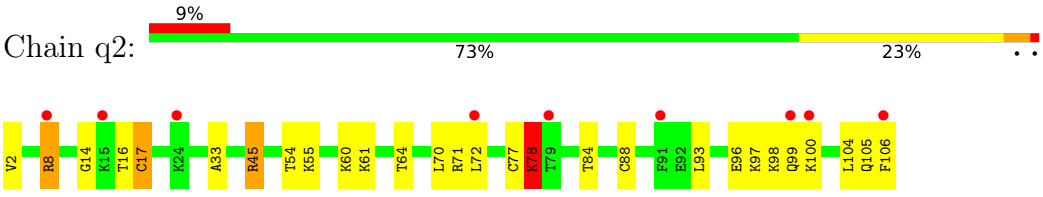
• Molecule 78: 60S ribosomal protein L42-A

Chain Q2:



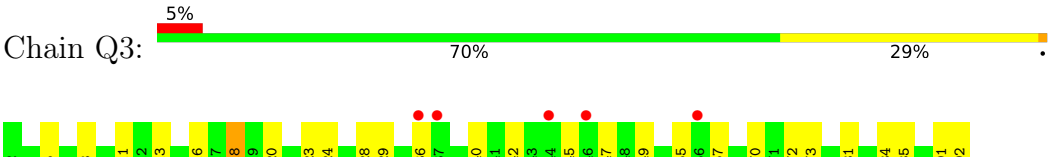
• Molecule 78: 60S ribosomal protein L42-A

Chain q2:



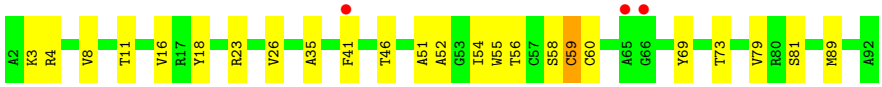
• Molecule 79: 60S ribosomal protein L43-A

Chain Q3:



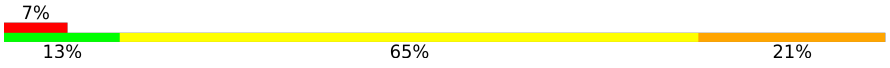
• Molecule 79: 60S ribosomal protein L43-A

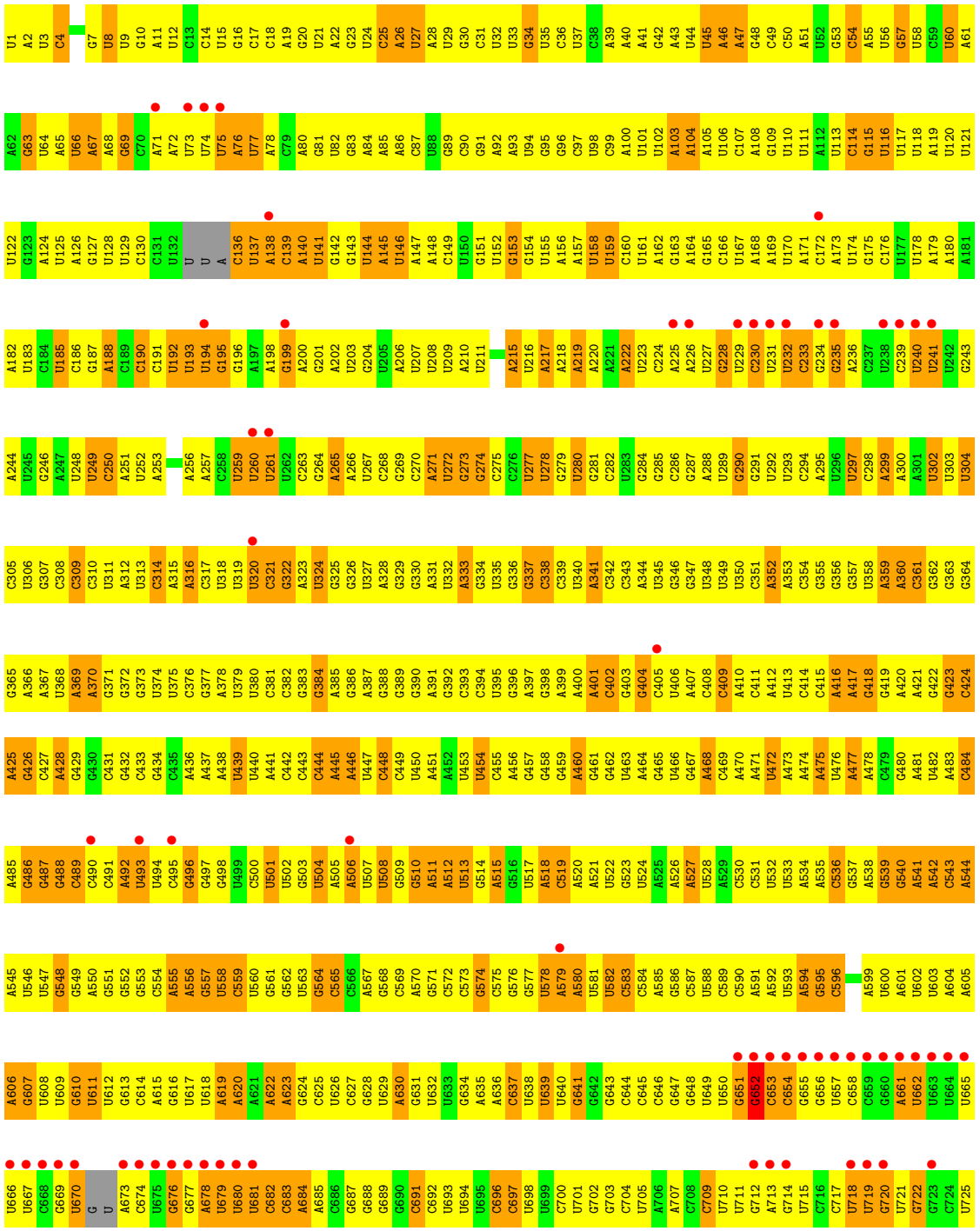
Chain q3:

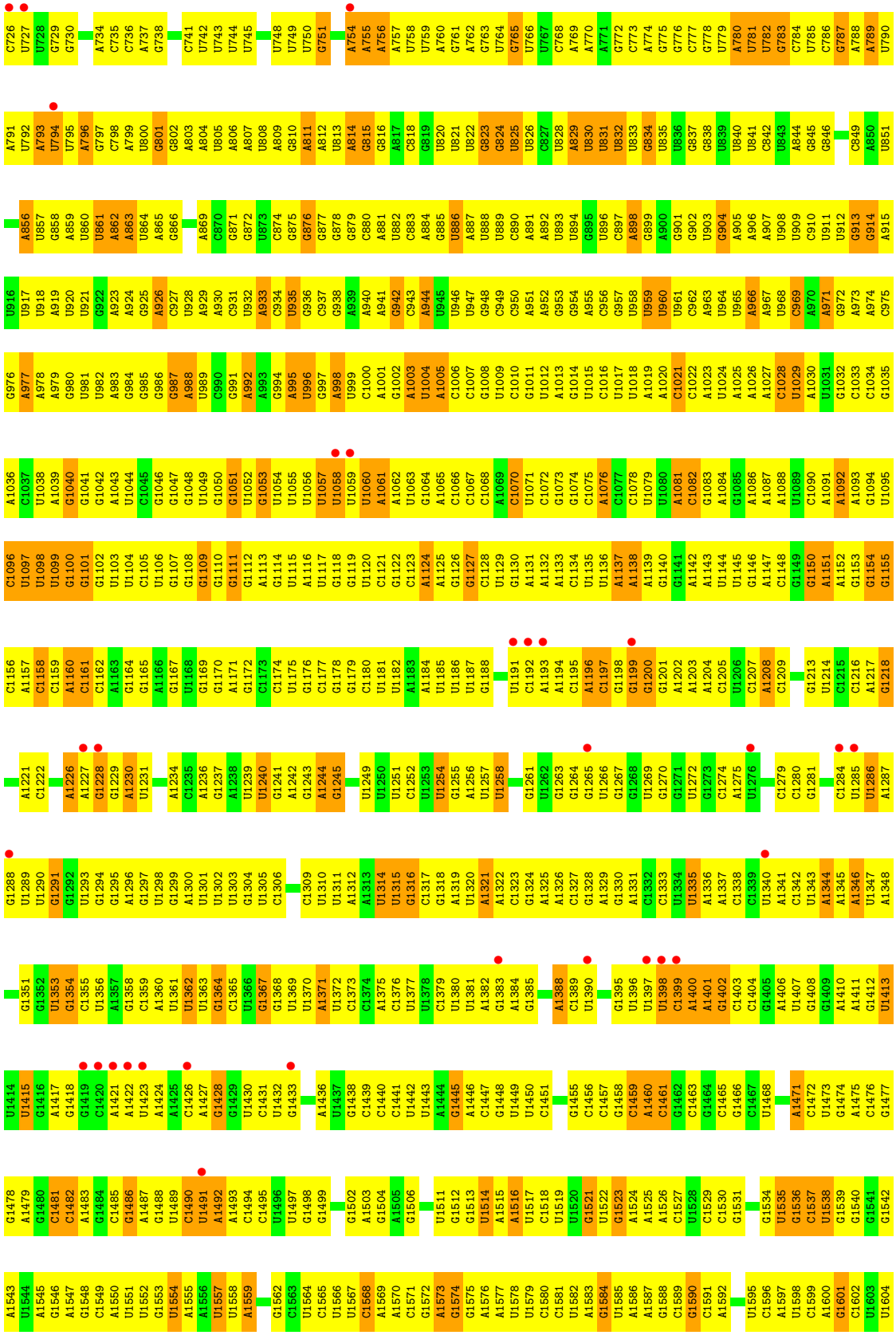


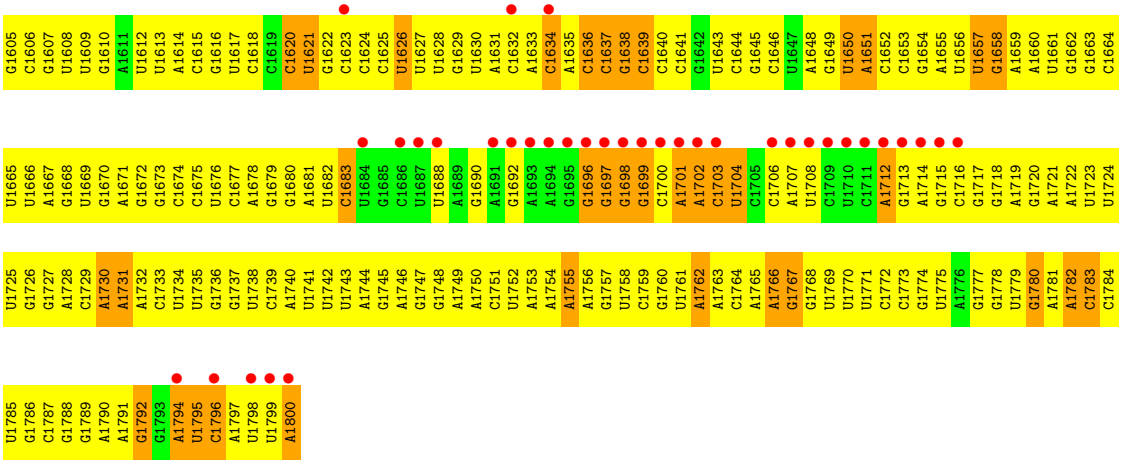
• Molecule 80: 18S ribosomal RNA

Chain 6:



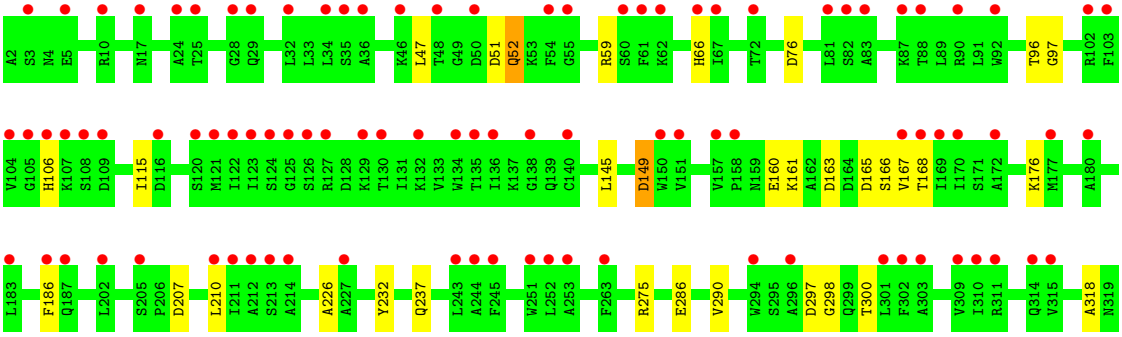






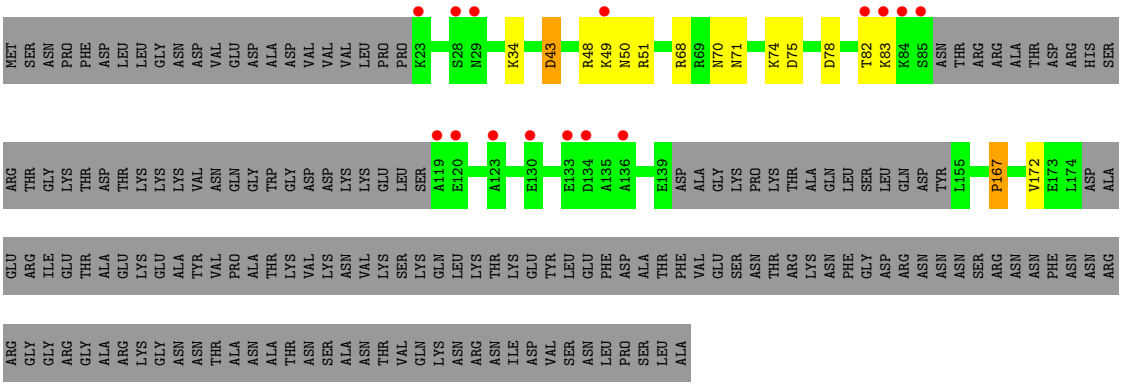
• Molecule 81: Guanine nucleotide-binding protein subunit beta-like protein

Chain sR:



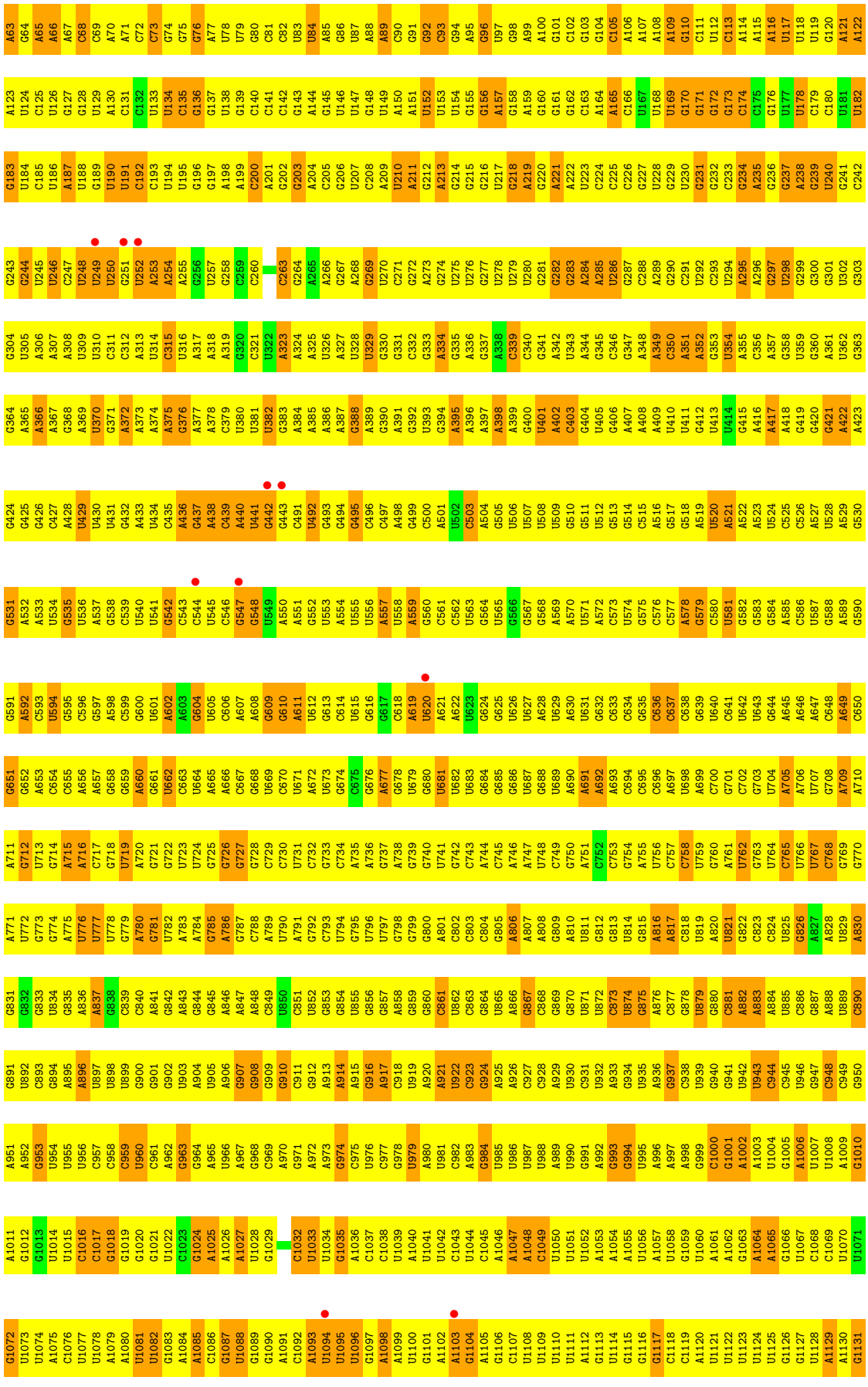
• Molecule 82: Suppressor protein STM1

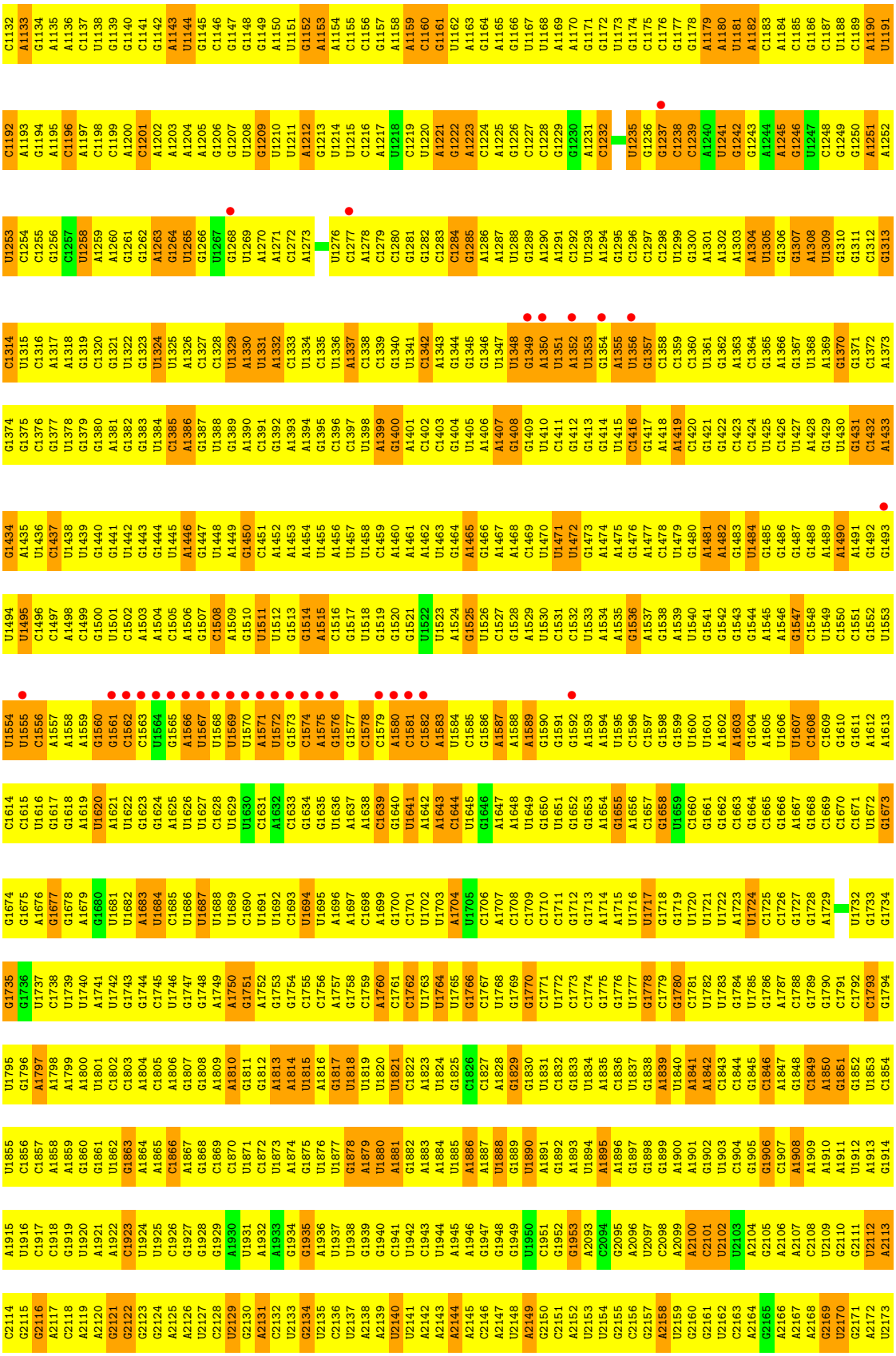
Chain sM:

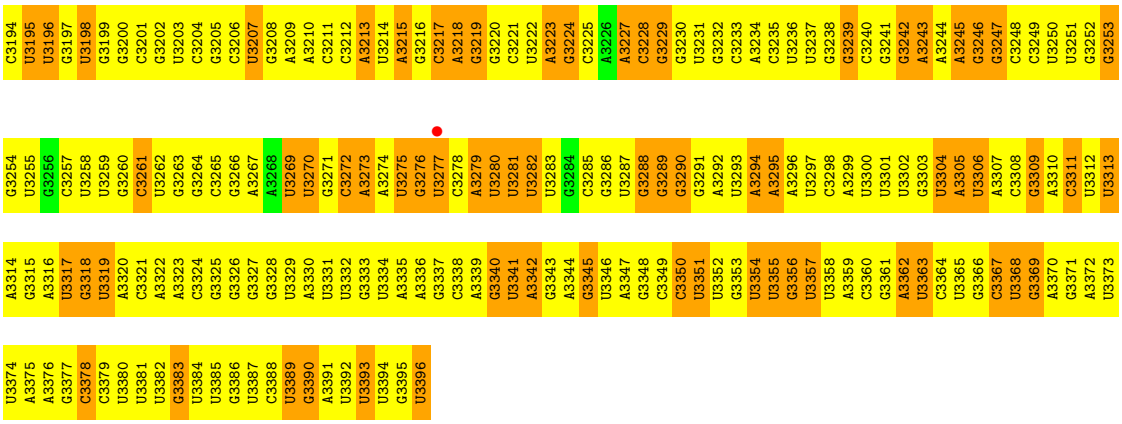


• Molecule 83: 25S ribosomal RNA

Chain 5:

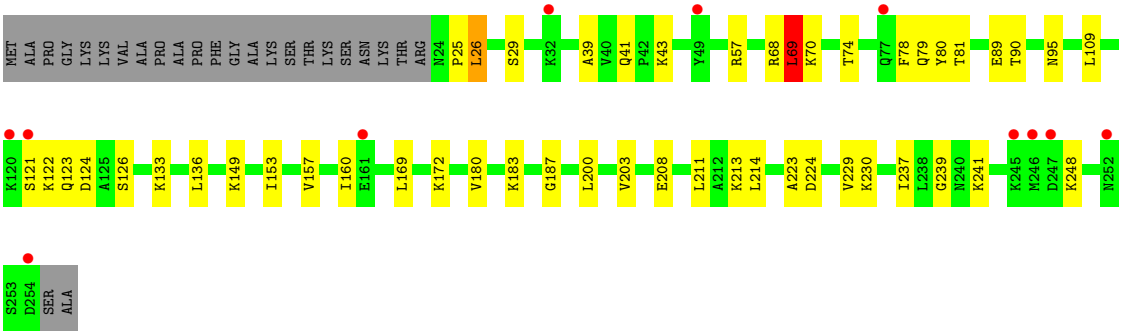






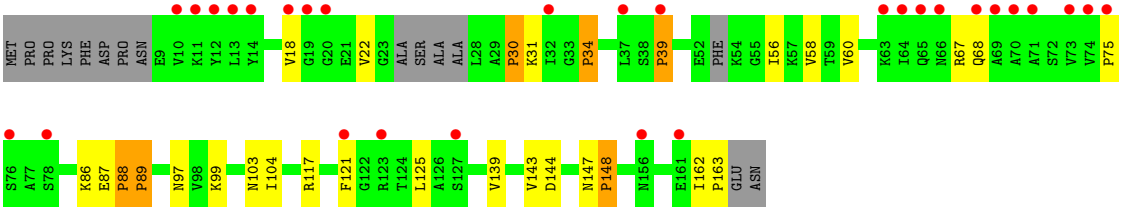
• Molecule 84: 60S ribosomal protein L8-A

Chain l8:



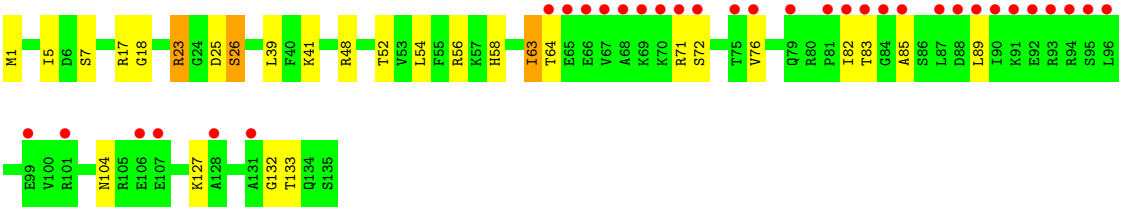
• Molecule 85: 60S ribosomal protein L12-A

Chain m2:



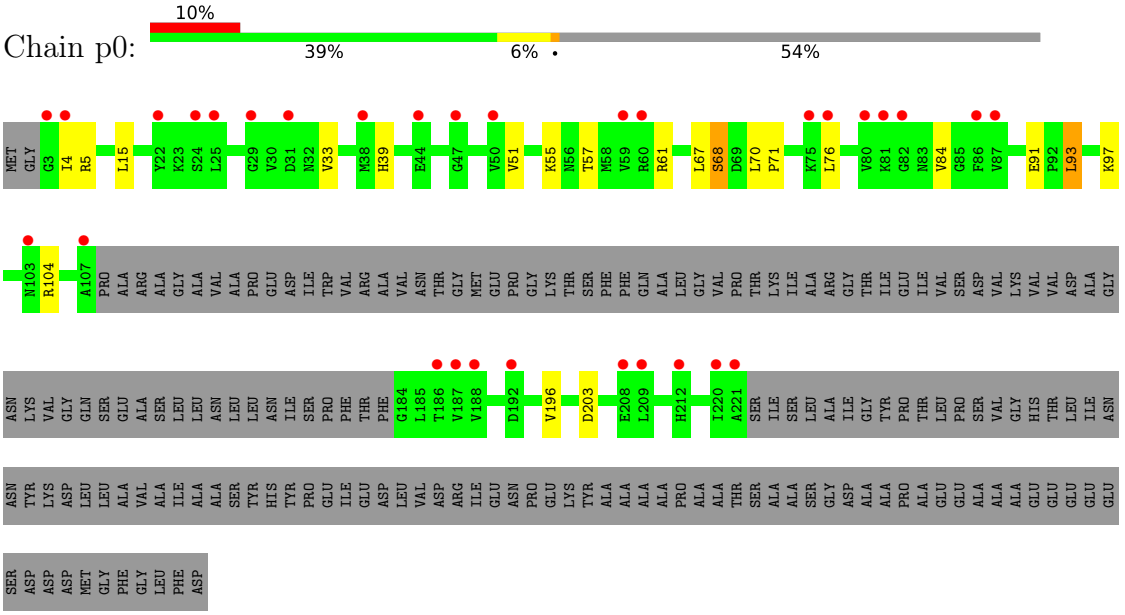
• Molecule 86: 60S ribosomal protein L24-A

Chain n4:



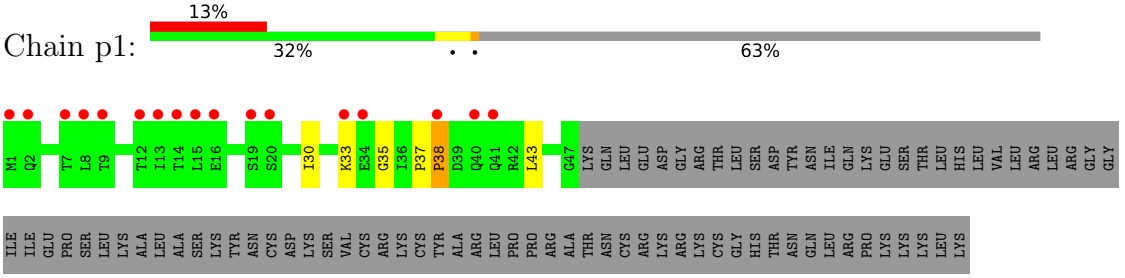
• Molecule 87: 60S acidic ribosomal protein P0

Chain p0:



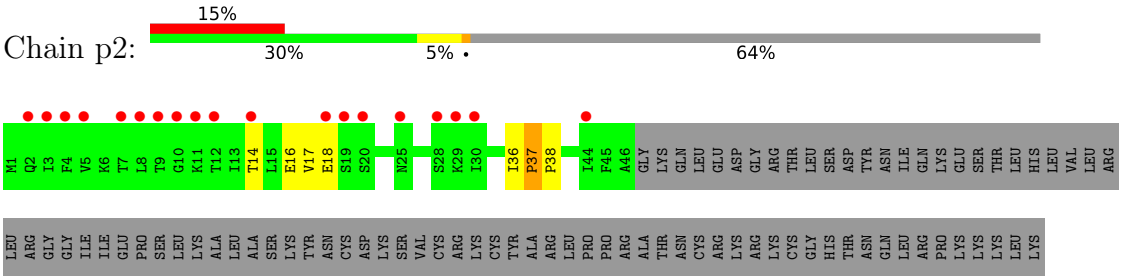
• Molecule 88: 60S ribosomal protein L40-A

Chain p1:



• Molecule 88: 60S ribosomal protein L40-A

Chain p2:



• Molecule 89: Peptidyl-tRNA analog ACCA-Leu-Phe

Chain P:

• Molecule 89: Peptidyl-tRNA analog ACCA-Leu-Phe

Chain p:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	434.73Å 286.77Å 303.15Å 90.00° 98.87° 90.00°	Depositor
Resolution (Å)	148.72 – 3.50 149.76 – 3.50	Depositor EDS
% Data completeness (in resolution range)	99.8 (148.72-3.50) 99.7 (149.76-3.50)	Depositor EDS
R_{merge}	0.61	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.34 (at 3.49Å)	Xtriage
Refinement program	PHENIX 1.10.1_2155	Depositor
R, R_{free}	0.261 , 0.312 0.263 , 0.314	Depositor DCC
R_{free} test set	18373 reflections (2.00%)	wwPDB-VP
Wilson B-factor (Å^2)	83.6	Xtriage
Anisotropy	0.146	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	(Not available) , (Not available)	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	0.84	EDS
Total number of atoms	411566	wwPDB-VP
Average B, all atoms (Å^2)	64.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.58% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: ZN, OHX, SPS, MG, 8AN

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	2	1.53	426/42467 (1.0%)	2.41	4031/66169 (6.1%)
2	S0	0.67	0/1617	0.76	0/2215
2	s0	0.78	0/1623	0.86	1/2222 (0.0%)
3	S1	0.59	0/1735	0.75	1/2335 (0.0%)
3	s1	0.82	2/1748 (0.1%)	0.95	5/2352 (0.2%)
4	S2	0.73	0/1665	0.81	0/2263
4	s2	0.86	2/1665 (0.1%)	0.96	4/2263 (0.2%)
5	S3	0.68	0/1759	0.78	0/2368
5	s3	0.70	0/1759	0.79	0/2368
6	S4	0.85	2/2109 (0.1%)	0.91	2/2839 (0.1%)
6	s4	0.84	1/2109 (0.0%)	0.98	1/2839 (0.0%)
7	S5	0.66	0/1629	0.76	0/2202
7	s5	0.65	1/1629 (0.1%)	0.76	1/2202 (0.0%)
8	S6	0.84	3/1823 (0.2%)	0.92	5/2439 (0.2%)
8	s6	0.93	1/1779 (0.1%)	1.01	6/2379 (0.3%)
9	S7	0.73	2/1506 (0.1%)	0.79	0/2028
9	s7	0.78	0/1516	0.85	2/2043 (0.1%)
10	S8	0.79	1/1514 (0.1%)	0.90	2/2021 (0.1%)
10	s8	0.94	2/1514 (0.1%)	1.00	5/2021 (0.2%)
11	S9	0.75	2/1519 (0.1%)	0.88	1/2035 (0.0%)
11	s9	0.84	1/1519 (0.1%)	0.97	4/2035 (0.2%)
12	C0	0.60	0/789	0.74	1/1067 (0.1%)
12	c0	0.58	0/776	0.72	3/1047 (0.3%)
13	C1	0.85	1/1239 (0.1%)	0.84	0/1673
13	c1	0.95	1/1194 (0.1%)	0.96	1/1610 (0.1%)
14	C2	0.59	0/898	0.71	0/1220
14	c2	0.48	0/898	0.63	0/1220
15	C3	0.75	0/1215	0.86	1/1638 (0.1%)
15	c3	0.86	1/1215 (0.1%)	0.93	0/1638
16	C4	0.59	0/901	0.75	0/1217
16	c4	0.85	0/960	0.97	0/1290
17	C5	0.85	2/998 (0.2%)	0.85	0/1341

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	c5	0.75	0/1060	0.86	1/1426 (0.1%)
18	C6	0.65	0/1125	0.80	2/1510 (0.1%)
18	c6	0.69	0/1131	0.74	0/1518
19	C7	0.66	0/935	0.76	0/1254
19	c7	0.69	0/914	0.83	1/1224 (0.1%)
20	C8	0.70	0/1211	0.82	0/1628
20	c8	0.76	1/1211 (0.1%)	0.87	0/1628
21	C9	0.66	0/1130	0.75	0/1517
21	c9	0.70	0/1130	0.79	1/1517 (0.1%)
22	D0	0.64	0/865	0.80	1/1169 (0.1%)
22	d0	0.72	0/892	0.75	0/1205
23	D1	0.72	0/693	0.83	0/935
23	d1	0.87	0/693	0.96	1/935 (0.1%)
24	D2	0.81	0/1038	0.90	2/1395 (0.1%)
24	d2	0.90	2/1038 (0.2%)	0.95	2/1395 (0.1%)
25	D3	0.85	1/1139 (0.1%)	0.90	1/1518 (0.1%)
25	d3	1.05	1/1139 (0.1%)	1.07	4/1518 (0.3%)
26	D4	0.79	0/1087	0.85	0/1449
26	d4	0.93	0/1087	1.04	5/1449 (0.3%)
27	D5	0.66	0/571	0.78	0/768
27	d5	0.78	1/566 (0.2%)	0.76	0/761
28	D6	0.68	0/782	0.78	1/1047 (0.1%)
28	d6	0.84	2/782 (0.3%)	0.99	1/1047 (0.1%)
29	D7	0.76	0/620	0.80	0/838
29	d7	0.82	2/620 (0.3%)	0.89	0/838
30	D8	0.69	0/499	0.82	1/670 (0.1%)
30	d8	0.69	0/499	0.91	0/670
31	D9	0.76	1/452 (0.2%)	0.80	0/600
31	d9	0.78	1/452 (0.2%)	0.80	0/600
32	E0	0.74	0/483	0.78	0/643
32	e0	0.94	1/499 (0.2%)	0.94	1/665 (0.2%)
33	E1	0.72	0/577	0.80	0/770
33	e1	0.66	0/619	0.77	0/822
34	SR	0.57	0/2490	0.71	0/3389
35	SM	0.76	1/984 (0.1%)	0.86	1/1323 (0.1%)
36	1	2.49	4418/75394 (5.9%)	3.49	15681/117545 (13.3%)
37	3	2.00	80/2883 (2.8%)	3.26	543/4491 (12.1%)
37	7	2.57	171/2883 (5.9%)	3.80	680/4491 (15.1%)
38	4	2.46	206/3746 (5.5%)	3.78	898/5832 (15.4%)
38	8	2.34	182/3746 (4.9%)	3.37	707/5832 (12.1%)
39	L2	1.18	7/1948 (0.4%)	1.22	16/2617 (0.6%)
39	l2	1.09	6/1946 (0.3%)	1.23	16/2614 (0.6%)
40	L3	1.18	16/3146 (0.5%)	1.19	19/4228 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
40	l3	1.33	19/3146 (0.6%)	1.32	33/4228 (0.8%)
41	L4	1.29	18/2800 (0.6%)	1.30	28/3790 (0.7%)
41	l4	1.26	14/2800 (0.5%)	1.22	18/3790 (0.5%)
42	L5	1.02	5/2425 (0.2%)	1.04	10/3271 (0.3%)
42	l5	1.23	14/2408 (0.6%)	1.22	17/3248 (0.5%)
43	L6	1.21	2/1260 (0.2%)	1.15	3/1694 (0.2%)
43	l6	1.16	4/1269 (0.3%)	1.26	12/1705 (0.7%)
44	L7	1.32	12/1821 (0.7%)	1.23	14/2451 (0.6%)
44	l7	1.44	19/1828 (1.0%)	1.23	15/2461 (0.6%)
45	L8	0.98	2/1836 (0.1%)	0.99	3/2481 (0.1%)
46	L9	1.10	6/1539 (0.4%)	1.11	10/2073 (0.5%)
46	l9	1.19	4/1539 (0.3%)	1.21	13/2073 (0.6%)
47	M0	1.15	9/1741 (0.5%)	1.18	14/2335 (0.6%)
47	m0	1.24	5/1758 (0.3%)	1.37	21/2358 (0.9%)
48	M1	0.93	3/1374 (0.2%)	0.97	2/1842 (0.1%)
48	m1	1.05	4/1374 (0.3%)	1.17	10/1842 (0.5%)
49	M3	1.20	10/1568 (0.6%)	1.23	13/2106 (0.6%)
49	m3	1.05	3/1573 (0.2%)	1.20	13/2113 (0.6%)
50	M4	1.11	5/1068 (0.5%)	1.15	6/1438 (0.4%)
50	m4	1.21	7/1074 (0.7%)	1.27	10/1446 (0.7%)
51	M5	1.19	7/1757 (0.4%)	1.28	19/2354 (0.8%)
51	m5	1.10	5/1757 (0.3%)	1.16	10/2354 (0.4%)
52	M6	1.40	18/1585 (1.1%)	1.37	22/2128 (1.0%)
52	m6	1.50	13/1585 (0.8%)	1.35	22/2128 (1.0%)
53	M7	1.29	4/1443 (0.3%)	1.14	10/1944 (0.5%)
53	m7	1.47	17/1250 (1.4%)	1.29	13/1683 (0.8%)
54	M8	1.26	11/1465 (0.8%)	1.22	11/1965 (0.6%)
54	m8	1.23	10/1465 (0.7%)	1.30	11/1965 (0.6%)
55	M9	0.93	0/1538	0.98	2/2050 (0.1%)
55	m9	0.96	2/1538 (0.1%)	1.05	8/2050 (0.4%)
56	N0	1.20	4/1481 (0.3%)	1.15	6/1990 (0.3%)
56	n0	1.35	11/1481 (0.7%)	1.23	9/1990 (0.5%)
57	N1	1.16	3/1300 (0.2%)	1.13	5/1743 (0.3%)
57	n1	1.32	10/1300 (0.8%)	1.20	10/1743 (0.6%)
58	N2	0.95	0/812	0.90	1/1099 (0.1%)
58	n2	0.94	0/794	1.00	2/1076 (0.2%)
59	N3	1.16	5/1018 (0.5%)	1.21	8/1369 (0.6%)
59	n3	1.39	11/1018 (1.1%)	1.34	13/1369 (0.9%)
60	N4	0.94	1/712 (0.1%)	0.97	3/958 (0.3%)
61	N5	1.14	3/979 (0.3%)	1.16	7/1321 (0.5%)
61	n5	1.11	4/974 (0.4%)	1.19	4/1314 (0.3%)
62	N6	1.17	7/1004 (0.7%)	1.33	12/1341 (0.9%)
62	n6	1.17	5/1004 (0.5%)	1.34	15/1341 (1.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
63	N7	0.91	0/1118	0.91	1/1497 (0.1%)
63	n7	0.96	2/1118 (0.2%)	0.95	3/1497 (0.2%)
64	N8	1.22	4/1204 (0.3%)	1.24	11/1612 (0.7%)
64	n8	1.25	10/1204 (0.8%)	1.26	10/1612 (0.6%)
65	N9	1.08	1/473 (0.2%)	1.14	2/629 (0.3%)
65	n9	1.17	2/473 (0.4%)	1.16	2/629 (0.3%)
66	O0	0.81	0/751	0.91	0/1008
66	o0	0.94	1/775 (0.1%)	0.99	2/1040 (0.2%)
67	O1	1.07	3/890 (0.3%)	1.07	4/1196 (0.3%)
67	o1	1.23	5/897 (0.6%)	1.22	5/1205 (0.4%)
68	O2	1.40	13/1041 (1.2%)	1.34	14/1394 (1.0%)
68	o2	1.24	6/1041 (0.6%)	1.33	11/1394 (0.8%)
69	O3	1.50	10/868 (1.2%)	1.22	7/1168 (0.6%)
69	o3	1.54	13/868 (1.5%)	1.32	7/1168 (0.6%)
70	O4	1.01	1/890 (0.1%)	1.14	7/1189 (0.6%)
70	o4	1.03	2/890 (0.2%)	1.11	6/1189 (0.5%)
71	O5	1.18	5/978 (0.5%)	1.26	11/1301 (0.8%)
71	o5	0.96	2/974 (0.2%)	1.13	6/1297 (0.5%)
72	O6	0.99	0/778	1.15	3/1034 (0.3%)
72	o6	1.03	2/777 (0.3%)	1.16	3/1033 (0.3%)
73	O7	1.30	2/696 (0.3%)	1.29	7/923 (0.8%)
73	o7	1.25	4/696 (0.6%)	1.16	3/923 (0.3%)
74	O8	0.96	2/618 (0.3%)	1.08	3/826 (0.4%)
74	o8	0.83	0/614	1.01	3/822 (0.4%)
75	O9	1.09	1/443 (0.2%)	1.31	7/588 (1.2%)
75	o9	1.02	0/443	1.26	6/588 (1.0%)
76	Q0	1.15	3/423 (0.7%)	1.21	4/562 (0.7%)
76	q0	1.33	6/423 (1.4%)	1.22	3/562 (0.5%)
77	Q1	0.79	0/234	1.15	3/300 (1.0%)
77	q1	0.96	0/234	1.40	2/300 (0.7%)
78	Q2	1.22	3/860 (0.3%)	1.23	7/1136 (0.6%)
78	q2	1.32	4/860 (0.5%)	1.33	9/1136 (0.8%)
79	Q3	1.26	9/701 (1.3%)	1.31	7/934 (0.7%)
79	q3	1.22	6/701 (0.9%)	1.10	3/934 (0.3%)
80	6	1.94	1088/42790 (2.5%)	2.88	5446/66673 (8.2%)
81	sR	0.61	0/2495	0.72	0/3395
82	sM	0.78	1/683 (0.1%)	0.84	1/923 (0.1%)
83	5	2.61	4902/75414 (6.5%)	3.71	16861/117575 (14.3%)
84	l8	0.92	1/1795 (0.1%)	0.94	3/2429 (0.1%)
85	m2	0.57	0/734	0.90	8/1015 (0.8%)
86	n4	1.08	0/1052	1.10	7/1398 (0.5%)
87	p0	0.79	0/1092	0.82	2/1474 (0.1%)
88	p1	0.38	0/231	0.72	2/320 (0.6%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
88	p2	0.39	0/227	0.73	2/315 (0.6%)
89	P	2.37	2/40 (5.0%)	4.21	9/60 (15.0%)
89	p	13.84	3/43 (7.0%)	5.74	11/64 (17.2%)
All	All	1.87	11986/432003 (2.8%)	2.67	45685/634177 (7.2%)

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
6	S4	0	2
9	s7	0	1
11	S9	0	1
12	c0	0	1
17	c5	0	1
19	C7	0	1
22	d0	0	1
25	d3	0	1
27	D5	0	1
33	E1	0	2
39	L2	0	1
40	L3	0	1
40	l3	0	1
41	L4	0	2
41	l4	0	1
42	l5	0	2
44	L7	0	1
44	l7	0	2
47	M0	0	1
49	m3	0	1
52	M6	0	1
52	m6	0	1
53	M7	0	2
56	n0	0	2
57	N1	0	1
64	n8	0	1
65	N9	0	1
65	n9	0	1
68	o2	0	1
75	o9	0	1
80	6	0	1

Continued on next page...

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Mol	Chain	#Chirality outliers	#Planarity outliers
83	5	0	1
All	All	0	39

The worst 5 of 11986 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
89	p	74	C	P-O5'	89.50	2.49	1.59
37	7	63	A	C6-N6	27.75	1.56	1.33
80	6	1498	G	C8-N7	24.00	1.45	1.30
83	5	748	U	C4-O4	23.12	1.42	1.23
80	6	54	C	C4-N4	22.95	1.54	1.33

The worst 5 of 45685 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
83	5	2707	C	N3-C4-C5	-50.63	101.65	121.90
80	6	54	C	N3-C4-C5	-49.41	102.13	121.90
80	6	1070	C	N3-C4-C5	-42.39	104.94	121.90
80	6	818	C	N3-C4-C5	-42.29	104.98	121.90
80	6	1498	G	C5-N7-C8	-42.11	83.24	104.30

There are no chirality outliers.

5 of 39 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
19	C7	85	VAL	Peptide
27	D5	94	LYS	Peptide
6	S4	148	ARG	Peptide
6	S4	193	GLY	Peptide
11	S9	38	ASN	Peptide

5.2 Too-close contacts (i)

Due to software issues we are unable to calculate clashes - this section is therefore empty.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	S0	204/206 (99%)	151 (74%)	38 (19%)	15 (7%)	1 11
2	s0	204/206 (99%)	151 (74%)	34 (17%)	19 (9%)	0 8
3	S1	212/216 (98%)	154 (73%)	34 (16%)	24 (11%)	0 6
3	s1	214/216 (99%)	166 (78%)	32 (15%)	16 (8%)	1 11
4	S2	215/217 (99%)	182 (85%)	24 (11%)	9 (4%)	3 23
4	s2	215/217 (99%)	172 (80%)	34 (16%)	9 (4%)	3 23
5	S3	221/223 (99%)	186 (84%)	24 (11%)	11 (5%)	2 19
5	s3	221/223 (99%)	176 (80%)	30 (14%)	15 (7%)	1 13
6	S4	258/260 (99%)	197 (76%)	45 (17%)	16 (6%)	1 15
6	s4	258/260 (99%)	197 (76%)	42 (16%)	19 (7%)	1 11
7	S5	204/206 (99%)	169 (83%)	20 (10%)	15 (7%)	1 11
7	s5	204/206 (99%)	159 (78%)	35 (17%)	10 (5%)	2 19
8	S6	224/226 (99%)	186 (83%)	23 (10%)	15 (7%)	1 13
8	s6	216/226 (96%)	182 (84%)	22 (10%)	12 (6%)	2 17
9	S7	182/186 (98%)	134 (74%)	36 (20%)	12 (7%)	1 13
9	s7	184/186 (99%)	143 (78%)	28 (15%)	13 (7%)	1 12
10	S8	184/199 (92%)	150 (82%)	25 (14%)	9 (5%)	2 19
10	s8	184/199 (92%)	156 (85%)	23 (12%)	5 (3%)	5 33
11	S9	183/185 (99%)	143 (78%)	33 (18%)	7 (4%)	3 25
11	s9	183/185 (99%)	149 (81%)	26 (14%)	8 (4%)	2 21
12	C0	94/105 (90%)	72 (77%)	15 (16%)	7 (7%)	1 11
12	c0	92/105 (88%)	68 (74%)	10 (11%)	14 (15%)	0 3
13	C1	153/156 (98%)	117 (76%)	31 (20%)	5 (3%)	4 28
13	c1	144/156 (92%)	115 (80%)	25 (17%)	4 (3%)	5 32
14	C2	122/143 (85%)	77 (63%)	28 (23%)	17 (14%)	0 3

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
14	c2	122/143 (85%)	78 (64%)	31 (25%)	13 (11%)	0 6
15	C3	148/150 (99%)	125 (84%)	17 (12%)	6 (4%)	3 23
15	c3	148/150 (99%)	122 (82%)	18 (12%)	8 (5%)	2 17
16	C4	125/128 (98%)	90 (72%)	23 (18%)	12 (10%)	0 8
16	c4	126/128 (98%)	101 (80%)	15 (12%)	10 (8%)	1 10
17	C5	122/142 (86%)	90 (74%)	21 (17%)	11 (9%)	1 8
17	c5	133/142 (94%)	92 (69%)	26 (20%)	15 (11%)	0 6
18	C6	139/142 (98%)	115 (83%)	13 (9%)	11 (8%)	1 10
18	c6	140/142 (99%)	121 (86%)	15 (11%)	4 (3%)	4 31
19	C7	116/125 (93%)	90 (78%)	16 (14%)	10 (9%)	1 9
19	c7	113/125 (90%)	87 (77%)	19 (17%)	7 (6%)	1 15
20	C8	143/145 (99%)	113 (79%)	22 (15%)	8 (6%)	2 17
20	c8	143/145 (99%)	113 (79%)	19 (13%)	11 (8%)	1 10
21	C9	141/143 (99%)	121 (86%)	10 (7%)	10 (7%)	1 12
21	c9	141/143 (99%)	124 (88%)	13 (9%)	4 (3%)	5 32
22	D0	105/110 (96%)	89 (85%)	13 (12%)	3 (3%)	4 31
22	d0	108/110 (98%)	86 (80%)	15 (14%)	7 (6%)	1 14
23	D1	85/87 (98%)	62 (73%)	11 (13%)	12 (14%)	0 3
23	d1	85/87 (98%)	64 (75%)	13 (15%)	8 (9%)	0 8
24	D2	127/129 (98%)	109 (86%)	14 (11%)	4 (3%)	4 30
24	d2	127/129 (98%)	105 (83%)	19 (15%)	3 (2%)	6 35
25	D3	142/144 (99%)	109 (77%)	26 (18%)	7 (5%)	2 19
25	d3	142/144 (99%)	116 (82%)	23 (16%)	3 (2%)	7 38
26	D4	132/134 (98%)	103 (78%)	20 (15%)	9 (7%)	1 13
26	d4	132/134 (98%)	109 (83%)	14 (11%)	9 (7%)	1 13
27	D5	68/70 (97%)	46 (68%)	13 (19%)	9 (13%)	0 4
27	d5	67/70 (96%)	53 (79%)	10 (15%)	4 (6%)	1 15
28	D6	95/97 (98%)	53 (56%)	26 (27%)	16 (17%)	0 2
28	d6	95/97 (98%)	75 (79%)	13 (14%)	7 (7%)	1 11
29	D7	79/81 (98%)	59 (75%)	20 (25%)	0	100 100
29	d7	79/81 (98%)	58 (73%)	18 (23%)	3 (4%)	3 25

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
30	D8	61/63 (97%)	49 (80%)	9 (15%)	3 (5%)	2 19
30	d8	61/63 (97%)	45 (74%)	14 (23%)	2 (3%)	4 28
31	D9	51/53 (96%)	40 (78%)	9 (18%)	2 (4%)	3 25
31	d9	51/53 (96%)	42 (82%)	2 (4%)	7 (14%)	0 4
32	E0	58/62 (94%)	46 (79%)	8 (14%)	4 (7%)	1 12
32	e0	60/62 (97%)	46 (77%)	11 (18%)	3 (5%)	2 19
33	E1	69/76 (91%)	38 (55%)	22 (32%)	9 (13%)	0 4
33	e1	74/76 (97%)	36 (49%)	19 (26%)	19 (26%)	0 0
34	SR	316/318 (99%)	262 (83%)	41 (13%)	13 (4%)	3 23
35	SM	131/299 (44%)	101 (77%)	17 (13%)	13 (10%)	0 7
39	L2	250/252 (99%)	218 (87%)	25 (10%)	7 (3%)	5 32
39	l2	250/252 (99%)	200 (80%)	32 (13%)	18 (7%)	1 11
40	L3	384/386 (100%)	323 (84%)	44 (12%)	17 (4%)	2 21
40	l3	384/386 (100%)	329 (86%)	36 (9%)	19 (5%)	2 19
41	L4	359/361 (99%)	288 (80%)	44 (12%)	27 (8%)	1 11
41	l4	359/361 (99%)	284 (79%)	48 (13%)	27 (8%)	1 11
42	L5	294/296 (99%)	232 (79%)	43 (15%)	19 (6%)	1 14
42	l5	292/296 (99%)	236 (81%)	41 (14%)	15 (5%)	2 19
43	L6	152/175 (87%)	130 (86%)	19 (12%)	3 (2%)	7 39
43	l6	153/175 (87%)	128 (84%)	22 (14%)	3 (2%)	7 39
44	L7	220/223 (99%)	184 (84%)	27 (12%)	9 (4%)	3 23
44	l7	221/223 (99%)	185 (84%)	30 (14%)	6 (3%)	5 33
45	L8	231/233 (99%)	180 (78%)	34 (15%)	17 (7%)	1 11
46	L9	189/191 (99%)	155 (82%)	22 (12%)	12 (6%)	1 14
46	l9	189/191 (99%)	161 (85%)	24 (13%)	4 (2%)	7 38
47	M0	207/220 (94%)	157 (76%)	39 (19%)	11 (5%)	2 17
47	m0	209/220 (95%)	162 (78%)	33 (16%)	14 (7%)	1 13
48	M1	167/169 (99%)	125 (75%)	22 (13%)	20 (12%)	0 5
48	m1	167/169 (99%)	132 (79%)	27 (16%)	8 (5%)	2 20
49	M3	191/194 (98%)	150 (78%)	31 (16%)	10 (5%)	2 18
49	m3	192/194 (99%)	150 (78%)	29 (15%)	13 (7%)	1 13

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
50	M4	134/137 (98%)	112 (84%)	15 (11%)	7 (5%)	2 18
50	m4	135/137 (98%)	107 (79%)	24 (18%)	4 (3%)	4 30
51	M5	201/203 (99%)	162 (81%)	33 (16%)	6 (3%)	4 30
51	m5	201/203 (99%)	164 (82%)	30 (15%)	7 (4%)	3 27
52	M6	195/197 (99%)	173 (89%)	19 (10%)	3 (2%)	10 45
52	m6	195/197 (99%)	176 (90%)	13 (7%)	6 (3%)	4 30
53	M7	181/183 (99%)	141 (78%)	29 (16%)	11 (6%)	1 15
53	m7	153/183 (84%)	128 (84%)	20 (13%)	5 (3%)	4 28
54	M8	183/185 (99%)	155 (85%)	22 (12%)	6 (3%)	4 28
54	m8	183/185 (99%)	152 (83%)	21 (12%)	10 (6%)	2 17
55	M9	186/188 (99%)	161 (87%)	19 (10%)	6 (3%)	4 29
55	m9	186/188 (99%)	163 (88%)	23 (12%)	0	100 100
56	N0	170/172 (99%)	139 (82%)	27 (16%)	4 (2%)	6 35
56	n0	170/172 (99%)	149 (88%)	20 (12%)	1 (1%)	25 64
57	N1	157/159 (99%)	129 (82%)	22 (14%)	6 (4%)	3 25
57	n1	157/159 (99%)	138 (88%)	15 (10%)	4 (2%)	5 34
58	N2	98/100 (98%)	72 (74%)	19 (19%)	7 (7%)	1 12
58	n2	96/100 (96%)	70 (73%)	23 (24%)	3 (3%)	4 30
59	N3	134/136 (98%)	108 (81%)	21 (16%)	5 (4%)	3 26
59	n3	134/136 (98%)	113 (84%)	19 (14%)	2 (2%)	10 45
60	N4	96/98 (98%)	75 (78%)	16 (17%)	5 (5%)	2 18
61	N5	119/121 (98%)	99 (83%)	17 (14%)	3 (2%)	5 34
61	n5	118/121 (98%)	90 (76%)	16 (14%)	12 (10%)	0 7
62	N6	124/126 (98%)	109 (88%)	12 (10%)	3 (2%)	6 35
62	n6	124/126 (98%)	104 (84%)	15 (12%)	5 (4%)	3 24
63	N7	133/135 (98%)	106 (80%)	17 (13%)	10 (8%)	1 11
63	n7	133/135 (98%)	93 (70%)	26 (20%)	14 (10%)	0 7
64	N8	146/148 (99%)	112 (77%)	28 (19%)	6 (4%)	3 23
64	n8	146/148 (99%)	118 (81%)	17 (12%)	11 (8%)	1 11
65	N9	56/58 (97%)	47 (84%)	8 (14%)	1 (2%)	8 41
65	n9	56/58 (97%)	39 (70%)	11 (20%)	6 (11%)	0 6

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
66	O0	95/100 (95%)	87 (92%)	7 (7%)	1 (1%)	14 52
66	o0	98/100 (98%)	83 (85%)	11 (11%)	4 (4%)	3 23
67	O1	107/109 (98%)	90 (84%)	10 (9%)	7 (6%)	1 14
67	o1	107/109 (98%)	84 (78%)	16 (15%)	7 (6%)	1 14
68	O2	125/127 (98%)	112 (90%)	11 (9%)	2 (2%)	9 43
68	o2	125/127 (98%)	100 (80%)	18 (14%)	7 (6%)	2 17
69	O3	104/106 (98%)	90 (86%)	8 (8%)	6 (6%)	1 16
69	o3	104/106 (98%)	92 (88%)	10 (10%)	2 (2%)	8 40
70	O4	110/112 (98%)	91 (83%)	17 (16%)	2 (2%)	8 41
70	o4	110/112 (98%)	92 (84%)	15 (14%)	3 (3%)	5 33
71	O5	117/119 (98%)	105 (90%)	9 (8%)	3 (3%)	5 33
71	o5	117/119 (98%)	93 (80%)	17 (14%)	7 (6%)	1 15
72	O6	97/99 (98%)	76 (78%)	11 (11%)	10 (10%)	0 7
72	o6	97/99 (98%)	84 (87%)	7 (7%)	6 (6%)	1 15
73	O7	85/87 (98%)	72 (85%)	10 (12%)	3 (4%)	3 27
73	o7	85/87 (98%)	66 (78%)	17 (20%)	2 (2%)	6 35
74	O8	75/77 (97%)	61 (81%)	11 (15%)	3 (4%)	3 24
74	o8	75/77 (97%)	59 (79%)	11 (15%)	5 (7%)	1 13
75	O9	48/50 (96%)	39 (81%)	8 (17%)	1 (2%)	7 38
75	o9	48/50 (96%)	43 (90%)	2 (4%)	3 (6%)	1 14
76	Q0	50/52 (96%)	41 (82%)	4 (8%)	5 (10%)	0 7
76	q0	50/52 (96%)	46 (92%)	3 (6%)	1 (2%)	7 39
77	Q1	23/25 (92%)	19 (83%)	4 (17%)	0	100 100
77	q1	23/25 (92%)	19 (83%)	4 (17%)	0	100 100
78	Q2	103/105 (98%)	76 (74%)	20 (19%)	7 (7%)	1 13
78	q2	103/105 (98%)	89 (86%)	9 (9%)	5 (5%)	2 19
79	Q3	89/91 (98%)	71 (80%)	16 (18%)	2 (2%)	6 37
79	q3	89/91 (98%)	70 (79%)	15 (17%)	4 (4%)	2 21
81	sR	316/318 (99%)	252 (80%)	51 (16%)	13 (4%)	3 23
82	sM	98/273 (36%)	72 (74%)	20 (20%)	6 (6%)	1 15
84	l8	229/256 (90%)	182 (80%)	29 (13%)	18 (8%)	1 10

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
85	m2	144/165 (87%)	79 (55%)	37 (26%)	28 (19%)	0 2
86	n4	133/135 (98%)	109 (82%)	12 (9%)	12 (9%)	1 8
87	p0	139/312 (45%)	115 (83%)	19 (14%)	5 (4%)	3 26
88	p1	45/128 (35%)	33 (73%)	7 (16%)	5 (11%)	0 6
88	p2	44/128 (34%)	35 (80%)	3 (7%)	6 (14%)	0 4
All	All	22542/23829 (95%)	18075 (80%)	3183 (14%)	1284 (6%)	1 16

5 of 1284 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	39	ASN
2	S0	158	VAL
2	S0	191	ARG
2	S0	195	TRP

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
2	S0	164/173 (95%)	144 (88%)	20 (12%)	5 23
2	s0	165/173 (95%)	135 (82%)	30 (18%)	1 9
3	S1	191/192 (100%)	157 (82%)	34 (18%)	2 10
3	s1	192/192 (100%)	151 (79%)	41 (21%)	1 5
4	S2	176/176 (100%)	150 (85%)	26 (15%)	3 17
4	s2	176/176 (100%)	135 (77%)	41 (23%)	1 4
5	S3	182/182 (100%)	158 (87%)	24 (13%)	4 21
5	s3	182/182 (100%)	154 (85%)	28 (15%)	2 16
6	S4	221/221 (100%)	184 (83%)	37 (17%)	2 12
6	s4	221/221 (100%)	187 (85%)	34 (15%)	2 16
7	S5	173/173 (100%)	153 (88%)	20 (12%)	5 26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
7	s5	173/173 (100%)	149 (86%)	24 (14%)	3 20
8	S6	188/193 (97%)	157 (84%)	31 (16%)	2 13
8	s6	187/193 (97%)	154 (82%)	33 (18%)	2 10
9	S7	165/166 (99%)	147 (89%)	18 (11%)	6 29
9	s7	165/166 (99%)	143 (87%)	22 (13%)	4 21
10	S8	150/160 (94%)	128 (85%)	22 (15%)	3 18
10	s8	150/160 (94%)	131 (87%)	19 (13%)	4 22
11	S9	158/158 (100%)	137 (87%)	21 (13%)	4 21
11	s9	158/158 (100%)	134 (85%)	24 (15%)	3 17
12	C0	77/98 (79%)	66 (86%)	11 (14%)	3 19
12	c0	73/98 (74%)	66 (90%)	7 (10%)	8 34
13	C1	129/137 (94%)	112 (87%)	17 (13%)	4 21
13	c1	129/137 (94%)	110 (85%)	19 (15%)	3 18
14	C2	88/119 (74%)	75 (85%)	13 (15%)	3 17
14	c2	88/119 (74%)	72 (82%)	16 (18%)	1 9
15	C3	127/127 (100%)	101 (80%)	26 (20%)	1 6
15	c3	127/127 (100%)	107 (84%)	20 (16%)	2 15
16	C4	81/97 (84%)	67 (83%)	14 (17%)	2 11
16	c4	97/97 (100%)	83 (86%)	14 (14%)	3 18
17	C5	101/118 (86%)	90 (89%)	11 (11%)	6 29
17	c5	103/118 (87%)	87 (84%)	16 (16%)	2 16
18	C6	117/118 (99%)	96 (82%)	21 (18%)	2 9
18	c6	118/118 (100%)	99 (84%)	19 (16%)	2 14
19	C7	94/113 (83%)	77 (82%)	17 (18%)	1 9
19	c7	92/113 (81%)	72 (78%)	20 (22%)	1 5
20	C8	128/128 (100%)	108 (84%)	20 (16%)	2 16
20	c8	128/128 (100%)	107 (84%)	21 (16%)	2 13
21	C9	115/115 (100%)	98 (85%)	17 (15%)	3 17
21	c9	115/115 (100%)	103 (90%)	12 (10%)	7 31
22	D0	100/103 (97%)	84 (84%)	16 (16%)	2 14
22	d0	103/103 (100%)	82 (80%)	21 (20%)	1 6

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
23	D1	74/74 (100%)	65 (88%)	9 (12%)	5 23
23	d1	74/74 (100%)	67 (90%)	7 (10%)	8 34
24	D2	110/110 (100%)	91 (83%)	19 (17%)	2 11
24	d2	110/110 (100%)	98 (89%)	12 (11%)	6 29
25	D3	119/119 (100%)	102 (86%)	17 (14%)	3 19
25	d3	119/119 (100%)	98 (82%)	21 (18%)	2 10
26	D4	112/112 (100%)	94 (84%)	18 (16%)	2 14
26	d4	112/112 (100%)	92 (82%)	20 (18%)	2 9
27	D5	61/61 (100%)	46 (75%)	15 (25%)	0 4
27	d5	61/61 (100%)	53 (87%)	8 (13%)	4 21
28	D6	83/83 (100%)	64 (77%)	19 (23%)	1 4
28	d6	83/83 (100%)	66 (80%)	17 (20%)	1 6
29	D7	70/70 (100%)	66 (94%)	4 (6%)	20 53
29	d7	70/70 (100%)	57 (81%)	13 (19%)	1 8
30	D8	56/56 (100%)	46 (82%)	10 (18%)	2 9
30	d8	56/56 (100%)	41 (73%)	15 (27%)	0 3
31	D9	47/47 (100%)	37 (79%)	10 (21%)	1 5
31	d9	47/47 (100%)	39 (83%)	8 (17%)	2 12
32	E0	51/53 (96%)	39 (76%)	12 (24%)	1 4
32	e0	53/53 (100%)	45 (85%)	8 (15%)	3 17
33	E1	62/66 (94%)	43 (69%)	19 (31%)	0 2
33	e1	66/66 (100%)	50 (76%)	16 (24%)	0 4
34	SR	259/260 (100%)	233 (90%)	26 (10%)	7 32
35	SM	97/228 (42%)	78 (80%)	19 (20%)	1 7
39	L2	193/194 (100%)	162 (84%)	31 (16%)	2 14
39	l2	192/194 (99%)	159 (83%)	33 (17%)	2 11
40	L3	320/322 (99%)	252 (79%)	68 (21%)	1 5
40	l3	319/322 (99%)	268 (84%)	51 (16%)	2 14
41	L4	288/288 (100%)	239 (83%)	49 (17%)	2 12
41	l4	288/288 (100%)	231 (80%)	57 (20%)	1 7
42	L5	244/244 (100%)	205 (84%)	39 (16%)	2 14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
42	l5	243/244 (100%)	201 (83%)	42 (17%)	2 11
43	L6	134/152 (88%)	114 (85%)	20 (15%)	3 17
43	l6	135/152 (89%)	119 (88%)	16 (12%)	5 25
44	L7	186/187 (100%)	156 (84%)	30 (16%)	2 14
44	l7	187/187 (100%)	155 (83%)	32 (17%)	2 12
45	L8	187/191 (98%)	166 (89%)	21 (11%)	6 27
46	L9	171/171 (100%)	134 (78%)	37 (22%)	1 5
46	l9	171/171 (100%)	134 (78%)	37 (22%)	1 5
47	M0	177/186 (95%)	147 (83%)	30 (17%)	2 12
47	m0	179/186 (96%)	139 (78%)	40 (22%)	1 4
48	M1	147/147 (100%)	120 (82%)	27 (18%)	1 8
48	m1	147/147 (100%)	126 (86%)	21 (14%)	3 19
49	M3	154/154 (100%)	125 (81%)	29 (19%)	1 8
49	m3	154/154 (100%)	127 (82%)	27 (18%)	2 10
50	M4	107/108 (99%)	86 (80%)	21 (20%)	1 7
50	m4	108/108 (100%)	91 (84%)	17 (16%)	2 15
51	M5	175/175 (100%)	145 (83%)	30 (17%)	2 12
51	m5	175/175 (100%)	148 (85%)	27 (15%)	2 16
52	M6	160/160 (100%)	141 (88%)	19 (12%)	5 25
52	m6	160/160 (100%)	135 (84%)	25 (16%)	2 16
53	M7	140/145 (97%)	114 (81%)	26 (19%)	1 8
53	m7	125/145 (86%)	99 (79%)	26 (21%)	1 6
54	M8	150/150 (100%)	126 (84%)	24 (16%)	2 14
54	m8	150/150 (100%)	122 (81%)	28 (19%)	1 8
55	M9	153/153 (100%)	133 (87%)	20 (13%)	4 21
55	m9	153/153 (100%)	121 (79%)	32 (21%)	1 6
56	N0	156/156 (100%)	129 (83%)	27 (17%)	2 11
56	n0	156/156 (100%)	130 (83%)	26 (17%)	2 12
57	N1	136/136 (100%)	106 (78%)	30 (22%)	1 5
57	n1	136/136 (100%)	112 (82%)	24 (18%)	2 10
58	N2	87/87 (100%)	73 (84%)	14 (16%)	2 14

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
58	n2	85/87 (98%)	70 (82%)	15 (18%)	2 10
59	N3	104/104 (100%)	89 (86%)	15 (14%)	3 18
59	n3	104/104 (100%)	93 (89%)	11 (11%)	6 30
60	N4	57/86 (66%)	53 (93%)	4 (7%)	15 46
61	N5	104/105 (99%)	89 (86%)	15 (14%)	3 18
61	n5	104/105 (99%)	80 (77%)	24 (23%)	1 4
62	N6	109/109 (100%)	85 (78%)	24 (22%)	1 5
62	n6	109/109 (100%)	88 (81%)	21 (19%)	1 7
63	N7	115/115 (100%)	97 (84%)	18 (16%)	2 15
63	n7	115/115 (100%)	96 (84%)	19 (16%)	2 13
64	N8	118/118 (100%)	99 (84%)	19 (16%)	2 14
64	n8	118/118 (100%)	101 (86%)	17 (14%)	3 18
65	N9	46/46 (100%)	39 (85%)	7 (15%)	3 17
65	n9	46/46 (100%)	39 (85%)	7 (15%)	3 17
66	O0	81/84 (96%)	64 (79%)	17 (21%)	1 5
66	o0	84/84 (100%)	71 (84%)	13 (16%)	2 16
67	O1	92/96 (96%)	79 (86%)	13 (14%)	3 19
67	o1	94/96 (98%)	74 (79%)	20 (21%)	1 5
68	O2	109/109 (100%)	88 (81%)	21 (19%)	1 7
68	o2	109/109 (100%)	83 (76%)	26 (24%)	0 4
69	O3	90/90 (100%)	72 (80%)	18 (20%)	1 7
69	o3	90/90 (100%)	74 (82%)	16 (18%)	2 10
70	O4	95/95 (100%)	82 (86%)	13 (14%)	3 20
70	o4	95/95 (100%)	83 (87%)	12 (13%)	4 22
71	O5	104/104 (100%)	93 (89%)	11 (11%)	6 30
71	o5	103/104 (99%)	82 (80%)	21 (20%)	1 6
72	O6	81/81 (100%)	63 (78%)	18 (22%)	1 5
72	o6	80/81 (99%)	64 (80%)	16 (20%)	1 7
73	O7	70/70 (100%)	58 (83%)	12 (17%)	2 12
73	o7	70/70 (100%)	54 (77%)	16 (23%)	1 4
74	O8	68/68 (100%)	52 (76%)	16 (24%)	1 4

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
74	o8	67/68 (98%)	58 (87%)	9 (13%)	4 21
75	O9	45/45 (100%)	37 (82%)	8 (18%)	2 10
75	o9	45/45 (100%)	40 (89%)	5 (11%)	6 28
76	Q0	47/47 (100%)	40 (85%)	7 (15%)	3 17
76	q0	47/47 (100%)	40 (85%)	7 (15%)	3 17
77	Q1	23/23 (100%)	19 (83%)	4 (17%)	2 11
77	q1	23/23 (100%)	14 (61%)	9 (39%)	0 1
78	Q2	90/90 (100%)	65 (72%)	25 (28%)	0 3
78	q2	90/90 (100%)	71 (79%)	19 (21%)	1 5
79	Q3	71/71 (100%)	59 (83%)	12 (17%)	2 12
79	q3	71/71 (100%)	58 (82%)	13 (18%)	1 8
81	sR	260/261 (100%)	238 (92%)	22 (8%)	10 39
82	sM	54/228 (24%)	44 (82%)	10 (18%)	1 8
84	l8	177/208 (85%)	147 (83%)	30 (17%)	2 12
86	n4	100/114 (88%)	87 (87%)	13 (13%)	4 21
87	p0	105/254 (41%)	89 (85%)	16 (15%)	3 17
All	All	18726/19636 (95%)	15610 (83%)	3116 (17%)	2 13

5 of 3116 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
14	c2	85	LYS
41	l4	179	LEU
17	c5	121	ILE
14	c2	71	ILE
28	d6	67	THR

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 91 such sidechains are listed below:

Mol	Chain	Res	Type
14	c2	125	ASN
42	l5	57	ASN
19	c7	105	GLN
30	d8	27	GLN
47	m0	55	ASN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1776/1812 (98%)	474 (26%)	47 (2%)
36	1	3145/3149 (99%)	753 (23%)	72 (2%)
37	3	120/121 (99%)	16 (13%)	3 (2%)
37	7	120/121 (99%)	21 (17%)	2 (1%)
38	4	157/158 (99%)	46 (29%)	3 (1%)
38	8	157/158 (99%)	39 (24%)	2 (1%)
80	6	1792/1800 (99%)	461 (25%)	54 (3%)
83	5	3145/3150 (99%)	767 (24%)	85 (2%)
89	P	1/4 (25%)	0	0
89	p	1/4 (25%)	0	0
All	All	10414/10477 (99%)	2577 (24%)	268 (2%)

5 of 2577 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	17	C
1	2	25	C
1	2	26	A

5 of 268 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
83	5	2281	A
83	5	2539	C
83	5	3317	U
36	1	2541	U
36	1	2418	G

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

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

5.5 Carbohydrates

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2310 ligands modelled in this entry, 1207 are monoatomic - leaving 1103 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
90	OHX	1	3697	36	0,6,6	-	-	-		
90	OHX	6	1916	-	0,6,6	-	-	-		
90	OHX	6	1940	80	0,6,6	-	-	-		
90	OHX	1	3667	-	0,6,6	-	-	-		
90	OHX	1	3604	-	0,6,6	-	-	-		
90	OHX	5	3541	-	0,6,6	-	-	-		
90	OHX	1	3609	-	0,6,6	-	-	-		
90	OHX	5	3455	-	0,6,6	-	-	-		
90	OHX	6	2019	80	0,6,6	-	-	-		
90	OHX	5	3746	83	0,6,6	-	-	-		
90	OHX	1	3625	-	0,6,6	-	-	-		
90	OHX	6	1910	-	0,6,6	-	-	-		
90	OHX	1	3430	-	0,6,6	-	-	-		
90	OHX	4	218	-	0,6,6	-	-	-		
90	OHX	2	1958	-	0,6,6	-	-	-		
90	OHX	6	1938	-	0,6,6	-	-	-		
90	OHX	2	1921	-	0,6,6	-	-	-		
90	OHX	d4	201	-	0,6,6	-	-	-		
90	OHX	5	3480	83	0,6,6	-	-	-		
90	OHX	5	3438	-	0,6,6	-	-	-		
90	OHX	5	3507	-	0,6,6	-	-	-		
90	OHX	1	3407	-	0,6,6	-	-	-		
90	OHX	5	3456	83	0,6,6	-	-	-		
90	OHX	m0	303	-	0,6,6	-	-	-		
90	OHX	1	3700	-	0,6,6	-	-	-		
90	OHX	6	1947	-	0,6,6	-	-	-		
90	OHX	1	3680	-	0,6,6	-	-	-		
90	OHX	5	3666	83	0,6,6	-	-	-		
90	OHX	5	3613	-	0,6,6	-	-	-		
90	OHX	1	3427	36	0,6,6	-	-	-		
90	OHX	6	1946	-	0,6,6	-	-	-		
90	OHX	1	3685	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	1	3628	-	0,6,6	-	-	-		
90	OHX	6	1951	80	0,6,6	-	-	-		
90	OHX	5	3700	83	0,6,6	-	-	-		
90	OHX	5	3408	83	0,6,6	-	-	-		
90	OHX	5	3624	-	0,6,6	-	-	-		
90	OHX	5	3727	-	0,6,6	-	-	-		
90	OHX	6	1959	-	0,6,6	-	-	-		
90	OHX	2	2039	1	0,6,6	-	-	-		
90	OHX	1	3513	-	0,6,6	-	-	-		
90	OHX	6	1939	80	0,6,6	-	-	-		
90	OHX	1	3500	-	0,6,6	-	-	-		
90	OHX	1	3723	-	0,6,6	-	-	-		
90	OHX	6	1943	-	0,6,6	-	-	-		
90	OHX	5	3447	83	0,6,6	-	-	-		
90	OHX	1	3428	-	0,6,6	-	-	-		
90	OHX	1	3439	-	0,6,6	-	-	-		
90	OHX	1	3725	-	0,6,6	-	-	-		
90	OHX	7	210	-	0,6,6	-	-	-		
90	OHX	6	2055	80	0,6,6	-	-	-		
90	OHX	1	3692	-	0,6,6	-	-	-		
90	OHX	1	3519	-	0,6,6	-	-	-		
90	OHX	5	3718	83	0,6,6	-	-	-		
90	OHX	8	206	-	0,6,6	-	-	-		
90	OHX	6	1983	-	0,6,6	-	-	-		
90	OHX	6	2051	80	0,6,6	-	-	-		
90	OHX	2	1965	-	0,6,6	-	-	-		
90	OHX	s4	302	-	0,6,6	-	-	-		
90	OHX	6	2038	-	0,6,6	-	-	-		
90	OHX	2	1962	-	0,6,6	-	-	-		
90	OHX	5	3439	-	0,6,6	-	-	-		
90	OHX	1	3706	-	0,6,6	-	-	-		
90	OHX	6	1965	-	0,6,6	-	-	-		
90	OHX	5	3477	83	0,6,6	-	-	-		
90	OHX	6	2033	80	0,6,6	-	-	-		
90	OHX	1	3708	-	0,6,6	-	-	-		
90	OHX	5	3569	-	0,6,6	-	-	-		
90	OHX	1	3414	-	0,6,6	-	-	-		
90	OHX	1	3412	-	0,6,6	-	-	-		
90	OHX	2	1909	-	0,6,6	-	-	-		
90	OHX	2	1932	-	0,6,6	-	-	-		
90	OHX	1	3543	-	0,6,6	-	-	-		
90	OHX	1	3556	-	0,6,6	-	-	-		
90	OHX	1	3612	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	1	3626	-	0,6,6	-	-	-		
90	OHX	l3	401	-	0,6,6	-	-	-		
90	OHX	1	3434	-	0,6,6	-	-	-		
90	OHX	2	1989	-	0,6,6	-	-	-		
90	OHX	1	3466	-	0,6,6	-	-	-		
90	OHX	1	3438	-	0,6,6	-	-	-		
90	OHX	1	3572	36	0,6,6	-	-	-		
90	OHX	5	3520	-	0,6,6	-	-	-		
90	OHX	l5	301	-	0,6,6	-	-	-		
90	OHX	5	3664	-	0,6,6	-	-	-		
90	OHX	2	2034	-	0,6,6	-	-	-		
90	OHX	5	3490	83	0,6,6	-	-	-		
90	OHX	5	3547	-	0,6,6	-	-	-		
90	OHX	1	3518	-	0,6,6	-	-	-		
90	OHX	2	2002	-	0,6,6	-	-	-		
90	OHX	5	3423	83	0,6,6	-	-	-		
90	OHX	6	2002	80	0,6,6	-	-	-		
90	OHX	1	3727	36	0,6,6	-	-	-		
90	OHX	6	1907	80	0,6,6	-	-	-		
90	OHX	5	3528	-	0,6,6	-	-	-		
90	OHX	1	3570	-	0,6,6	-	-	-		
90	OHX	5	3518	-	0,6,6	-	-	-		
90	OHX	1	3429	-	0,6,6	-	-	-		
90	OHX	2	2017	-	0,6,6	-	-	-		
90	OHX	2	2013	-	0,6,6	-	-	-		
90	OHX	6	2052	80	0,6,6	-	-	-		
90	OHX	5	3443	37	0,6,6	-	-	-		
90	OHX	5	3469	83	0,6,6	-	-	-		
90	OHX	2	2023	-	0,6,6	-	-	-		
90	OHX	1	3649	-	0,6,6	-	-	-		
90	OHX	5	3493	83	0,6,6	-	-	-		
90	OHX	1	3527	-	0,6,6	-	-	-		
90	OHX	2	2037	1	0,6,6	-	-	-		
90	OHX	5	3610	-	0,6,6	-	-	-		
90	OHX	5	3464	83	0,6,6	-	-	-		
90	OHX	1	3465	-	0,6,6	-	-	-		
90	OHX	1	3599	-	0,6,6	-	-	-		
90	OHX	5	3656	-	0,6,6	-	-	-		
90	OHX	2	2043	1	0,6,6	-	-	-		
90	OHX	2	1994	-	0,6,6	-	-	-		
90	OHX	1	3425	-	0,6,6	-	-	-		
90	OHX	1	3584	-	0,6,6	-	-	-		
90	OHX	1	3569	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	1	3639	-	0,6,6	-	-	-		
90	OHX	6	2012	-	0,6,6	-	-	-		
90	OHX	5	3515	-	0,6,6	-	-	-		
90	OHX	2	1931	-	0,6,6	-	-	-		
90	OHX	4	214	-	0,6,6	-	-	-		
90	OHX	2	1919	-	0,6,6	-	-	-		
90	OHX	5	3692	-	0,6,6	-	-	-		
90	OHX	1	3480	-	0,6,6	-	-	-		
90	OHX	5	3695	-	0,6,6	-	-	-		
90	OHX	1	3525	-	0,6,6	-	-	-		
90	OHX	2	1969	1	0,6,6	-	-	-		
90	OHX	5	3460	83	0,6,6	-	-	-		
90	OHX	5	3599	83	0,6,6	-	-	-		
90	OHX	2	2019	-	0,6,6	-	-	-		
90	OHX	6	1912	-	0,6,6	-	-	-		
90	OHX	5	3601	-	0,6,6	-	-	-		
90	OHX	2	1912	-	0,6,6	-	-	-		
90	OHX	5	3726	83	0,6,6	-	-	-		
90	OHX	6	1972	80	0,6,6	-	-	-		
90	OHX	L3	402	-	0,6,6	-	-	-		
90	OHX	5	3662	-	0,6,6	-	-	-		
90	OHX	5	3644	-	0,6,6	-	-	-		
90	OHX	1	3537	-	0,6,6	-	-	-		
90	OHX	1	3613	-	0,6,6	-	-	-		
90	OHX	4	216	-	0,6,6	-	-	-		
90	OHX	8	211	38	0,6,6	-	-	-		
90	OHX	5	3421	-	0,6,6	-	-	-		
90	OHX	2	1956	-	0,6,6	-	-	-		
90	OHX	6	1902	80	0,6,6	-	-	-		
90	OHX	4	215	-	0,6,6	-	-	-		
90	OHX	2	1947	-	0,6,6	-	-	-		
90	OHX	6	1997	-	0,6,6	-	-	-		
90	OHX	6	2001	-	0,6,6	-	-	-		
90	OHX	5	3719	-	0,6,6	-	-	-		
90	OHX	l3	402	-	0,6,6	-	-	-		
90	OHX	2	1960	-	0,6,6	-	-	-		
90	OHX	6	1905	-	0,6,6	-	-	-		
90	OHX	6	1988	-	0,6,6	-	-	-		
90	OHX	1	3528	-	0,6,6	-	-	-		
90	OHX	5	3707	-	0,6,6	-	-	-		
90	OHX	1	3554	-	0,6,6	-	-	-		
90	OHX	5	3632	-	0,6,6	-	-	-		
90	OHX	1	3588	36	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	5	3556	83	0,6,6	-	-	-		
90	OHX	5	3561	83	0,6,6	-	-	-		
90	OHX	1	3539	-	0,6,6	-	-	-		
90	OHX	5	3590	83	0,6,6	-	-	-		
90	OHX	2	1934	-	0,6,6	-	-	-		
90	OHX	5	3653	83	0,6,6	-	-	-		
90	OHX	1	3718	-	0,6,6	-	-	-		
90	OHX	2	1941	-	0,6,6	-	-	-		
90	OHX	6	1967	80	0,6,6	-	-	-		
90	OHX	1	3521	-	0,6,6	-	-	-		
90	OHX	6	1975	-	0,6,6	-	-	-		
90	OHX	2	2046	-	0,6,6	-	-	-		
90	OHX	5	3529	83	0,6,6	-	-	-		
90	OHX	8	218	38	0,6,6	-	-	-		
90	OHX	4	222	-	0,6,6	-	-	-		
90	OHX	1	3610	-	0,6,6	-	-	-		
90	OHX	5	3747	83	0,6,6	-	-	-		
90	OHX	2	1970	-	0,6,6	-	-	-		
90	OHX	1	3564	36	0,6,6	-	-	-		
90	OHX	5	3524	83	0,6,6	-	-	-		
90	OHX	2	1986	1	0,6,6	-	-	-		
90	OHX	5	3521	83	0,6,6	-	-	-		
90	OHX	6	2034	-	0,6,6	-	-	-		
90	OHX	5	3688	-	0,6,6	-	-	-		
90	OHX	6	1990	-	0,6,6	-	-	-		
90	OHX	1	3468	-	0,6,6	-	-	-		
90	OHX	6	1977	80	0,6,6	-	-	-		
90	OHX	5	3736	83	0,6,6	-	-	-		
90	OHX	7	202	37	0,6,6	-	-	-		
90	OHX	1	3650	-	0,6,6	-	-	-		
90	OHX	1	3619	-	0,6,6	-	-	-		
90	OHX	1	3695	36	0,6,6	-	-	-		
90	OHX	2	1937	-	0,6,6	-	-	-		
90	OHX	1	3460	-	0,6,6	-	-	-		
90	OHX	1	3710	36	0,6,6	-	-	-		
90	OHX	5	3415	-	0,6,6	-	-	-		
90	OHX	1	3474	-	0,6,6	-	-	-		
90	OHX	2	2007	-	0,6,6	-	-	-		
90	OHX	5	3495	83	0,6,6	-	-	-		
90	OHX	5	3548	83	0,6,6	-	-	-		
90	OHX	5	3595	83	0,6,6	-	-	-		
90	OHX	1	3726	-	0,6,6	-	-	-		
90	OHX	1	3453	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
90	OHX	1	3559	-	0,6,6	-	-	-		
90	OHX	5	3526	-	0,6,6	-	-	-		
90	OHX	6	2041	-	0,6,6	-	-	-		
90	OHX	1	3627	36	0,6,6	-	-	-		
90	OHX	5	3562	-	0,6,6	-	-	-		
90	OHX	6	1901	-	0,6,6	-	-	-		
90	OHX	5	3643	83	0,6,6	-	-	-		
93	PHE	1	3401	-	10,11,12	1.23	1 (10%)	10,13,15	0.62	0
90	OHX	1	3421	-	0,6,6	-	-	-		
90	OHX	1	3423	-	0,6,6	-	-	-		
90	OHX	2	1991	-	0,6,6	-	-	-		
90	OHX	5	3603	-	0,6,6	-	-	-		
90	OHX	5	3712	83	0,6,6	-	-	-		
90	OHX	2	2040	-	0,6,6	-	-	-		
90	OHX	5	3721	83	0,6,6	-	-	-		
90	OHX	5	3697	-	0,6,6	-	-	-		
90	OHX	1	3551	-	0,6,6	-	-	-		
90	OHX	5	3730	-	0,6,6	-	-	-		
90	OHX	1	3568	-	0,6,6	-	-	-		
90	OHX	5	3406	-	0,6,6	-	-	-		
90	OHX	2	1926	-	0,6,6	-	-	-		
90	OHX	2	2009	1	0,6,6	-	-	-		
90	OHX	C3	201	-	0,6,6	-	-	-		
90	OHX	1	3566	36	0,6,6	-	-	-		
90	OHX	6	1999	80	0,6,6	-	-	-		
90	OHX	1	3591	-	0,6,6	-	-	-		
90	OHX	4	221	-	0,6,6	-	-	-		
90	OHX	1	3632	-	0,6,6	-	-	-		
90	OHX	1	3535	-	0,6,6	-	-	-		
90	OHX	5	3446	-	0,6,6	-	-	-		
90	OHX	2	1936	1	0,6,6	-	-	-		
90	OHX	1	3561	-	0,6,6	-	-	-		
90	OHX	6	2026	80	0,6,6	-	-	-		
90	OHX	1	3469	-	0,6,6	-	-	-		
90	OHX	6	1955	80	0,6,6	-	-	-		
90	OHX	5	3452	-	0,6,6	-	-	-		
90	OHX	2	2047	1	0,6,6	-	-	-		
90	OHX	4	206	-	0,6,6	-	-	-		
90	OHX	1	3715	36	0,6,6	-	-	-		
90	OHX	5	3591	-	0,6,6	-	-	-		
90	OHX	5	3404	-	0,6,6	-	-	-		
90	OHX	2	1930	-	0,6,6	-	-	-		
90	OHX	1	3660	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	5	3473	83	0,6,6	-	-	-		
90	OHX	5	3701	-	0,6,6	-	-	-		
90	OHX	5	3472	83	0,6,6	-	-	-		
90	OHX	1	3515	-	0,6,6	-	-	-		
90	OHX	1	3664	-	0,6,6	-	-	-		
90	OHX	5	3533	83	0,6,6	-	-	-		
90	OHX	5	3717	83	0,6,6	-	-	-		
90	OHX	1	3637	36	0,6,6	-	-	-		
90	OHX	6	1924	80	0,6,6	-	-	-		
90	OHX	1	3455	-	0,6,6	-	-	-		
90	OHX	1	3563	-	0,6,6	-	-	-		
90	OHX	2	2020	-	0,6,6	-	-	-		
90	OHX	2	1993	-	0,6,6	-	-	-		
90	OHX	5	3503	-	0,6,6	-	-	-		
90	OHX	5	3508	-	0,6,6	-	-	-		
90	OHX	2	1959	-	0,6,6	-	-	-		
90	OHX	5	3538	-	0,6,6	-	-	-		
90	OHX	1	3699	-	0,6,6	-	-	-		
90	OHX	1	3585	-	0,6,6	-	-	-		
90	OHX	5	3576	-	0,6,6	-	-	-		
90	OHX	5	3670	83	0,6,6	-	-	-		
90	OHX	1	3526	-	0,6,6	-	-	-		
90	OHX	7	207	37	0,6,6	-	-	-		
90	OHX	6	2010	80	0,6,6	-	-	-		
90	OHX	2	2045	-	0,6,6	-	-	-		
90	OHX	1	3562	-	0,6,6	-	-	-		
90	OHX	C8	202	36	0,6,6	-	-	-		
90	OHX	1	3676	-	0,6,6	-	-	-		
90	OHX	5	3575	-	0,6,6	-	-	-		
90	OHX	1	3656	-	0,6,6	-	-	-		
90	OHX	5	3741	-	0,6,6	-	-	-		
90	OHX	5	3748	-	0,6,6	-	-	-		
90	OHX	1	3499	-	0,6,6	-	-	-		
90	OHX	1	3514	-	0,6,6	-	-	-		
90	OHX	1	3520	-	0,6,6	-	-	-		
90	OHX	5	3424	-	0,6,6	-	-	-		
90	OHX	5	3494	-	0,6,6	-	-	-		
90	OHX	5	3708	-	0,6,6	-	-	-		
90	OHX	8	215	-	0,6,6	-	-	-		
90	OHX	1	3730	36	0,6,6	-	-	-		
90	OHX	5	3621	-	0,6,6	-	-	-		
90	OHX	1	3686	-	0,6,6	-	-	-		
90	OHX	2	2032	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	2	2049	-	0,6,6	-	-	-		
90	OHX	6	1979	-	0,6,6	-	-	-		
90	OHX	2	2030	1	0,6,6	-	-	-		
90	OHX	1	3431	-	0,6,6	-	-	-		
90	OHX	1	3696	-	0,6,6	-	-	-		
90	OHX	6	2025	80	0,6,6	-	-	-		
90	OHX	8	210	-	0,6,6	-	-	-		
90	OHX	2	1946	-	0,6,6	-	-	-		
90	OHX	1	3611	-	0,6,6	-	-	-		
90	OHX	2	2001	-	0,6,6	-	-	-		
90	OHX	1	3452	-	0,6,6	-	-	-		
90	OHX	6	1929	80	0,6,6	-	-	-		
90	OHX	5	3637	83	0,6,6	-	-	-		
90	OHX	1	3608	-	0,6,6	-	-	-		
90	OHX	L3	403	-	0,6,6	-	-	-		
90	OHX	5	3710	-	0,6,6	-	-	-		
90	OHX	5	3636	-	0,6,6	-	-	-		
90	OHX	6	1987	80	0,6,6	-	-	-		
90	OHX	1	3669	-	0,6,6	-	-	-		
90	OHX	2	1952	1	0,6,6	-	-	-		
90	OHX	6	1922	80	0,6,6	-	-	-		
90	OHX	c8	202	-	0,6,6	-	-	-		
90	OHX	7	206	37	0,6,6	-	-	-		
90	OHX	2	1997	-	0,6,6	-	-	-		
90	OHX	5	3572	83	0,6,6	-	-	-		
90	OHX	1	3495	-	0,6,6	-	-	-		
90	OHX	1	3409	-	0,6,6	-	-	-		
90	OHX	5	3694	-	0,6,6	-	-	-		
90	OHX	2	2038	-	0,6,6	-	-	-		
90	OHX	5	3696	83	0,6,6	-	-	-		
90	OHX	1	3486	-	0,6,6	-	-	-		
90	OHX	1	3422	-	0,6,6	-	-	-		
90	OHX	1	3670	-	0,6,6	-	-	-		
90	OHX	5	3691	-	0,6,6	-	-	-		
90	OHX	1	3688	36	0,6,6	-	-	-		
90	OHX	5	3617	-	0,6,6	-	-	-		
90	OHX	1	3643	-	0,6,6	-	-	-		
90	OHX	5	3535	83	0,6,6	-	-	-		
90	OHX	6	1914	80	0,6,6	-	-	-		
90	OHX	6	2008	-	0,6,6	-	-	-		
90	OHX	1	3507	-	0,6,6	-	-	-		
90	OHX	m5	301	-	0,6,6	-	-	-		
90	OHX	4	220	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	6	1986	-	0,6,6	-	-	-		
90	OHX	6	2000	80	0,6,6	-	-	-		
90	OHX	5	3420	-	0,6,6	-	-	-		
90	OHX	5	3578	83	0,6,6	-	-	-		
90	OHX	5	3552	83	0,6,6	-	-	-		
90	OHX	1	3646	-	0,6,6	-	-	-		
90	OHX	1	3540	-	0,6,6	-	-	-		
90	OHX	1	3684	-	0,6,6	-	-	-		
90	OHX	L4	402	-	0,6,6	-	-	-		
90	OHX	2	2016	-	0,6,6	-	-	-		
90	OHX	6	2004	-	0,6,6	-	-	-		
90	OHX	2	1917	-	0,6,6	-	-	-		
90	OHX	5	3678	83	0,6,6	-	-	-		
90	OHX	5	3560	-	0,6,6	-	-	-		
90	OHX	C5	201	-	0,6,6	-	-	-		
90	OHX	2	2050	1	0,6,6	-	-	-		
90	OHX	2	2004	-	0,6,6	-	-	-		
90	OHX	6	2018	80	0,6,6	-	-	-		
90	OHX	5	3646	-	0,6,6	-	-	-		
90	OHX	8	214	38	0,6,6	-	-	-		
90	OHX	5	3684	83	0,6,6	-	-	-		
90	OHX	2	1911	-	0,6,6	-	-	-		
90	OHX	1	3598	-	0,6,6	-	-	-		
90	OHX	1	3689	-	0,6,6	-	-	-		
90	OHX	1	3693	-	0,6,6	-	-	-		
90	OHX	6	2015	-	0,6,6	-	-	-		
90	OHX	5	3600	83	0,6,6	-	-	-		
90	OHX	5	3582	-	0,6,6	-	-	-		
90	OHX	5	3677	83	0,6,6	-	-	-		
90	OHX	1	3472	-	0,6,6	-	-	-		
90	OHX	2	1905	-	0,6,6	-	-	-		
90	OHX	1	3493	36	0,6,6	-	-	-		
90	OHX	6	1995	-	0,6,6	-	-	-		
90	OHX	7	204	-	0,6,6	-	-	-		
90	OHX	5	3486	-	0,6,6	-	-	-		
90	OHX	5	3713	83	0,6,6	-	-	-		
90	OHX	5	3553	83	0,6,6	-	-	-		
90	OHX	5	3459	83	0,6,6	-	-	-		
90	OHX	8	212	38	0,6,6	-	-	-		
90	OHX	6	1957	80	0,6,6	-	-	-		
90	OHX	1	3687	-	0,6,6	-	-	-		
90	OHX	1	3672	-	0,6,6	-	-	-		
90	OHX	1	3404	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	5	3604	83	0,6,6	-	-	-		
90	OHX	4	204	-	0,6,6	-	-	-		
90	OHX	1	3679	-	0,6,6	-	-	-		
90	OHX	2	1929	-	0,6,6	-	-	-		
90	OHX	1	3545	-	0,6,6	-	-	-		
90	OHX	1	3576	36	0,6,6	-	-	-		
90	OHX	2	1927	-	0,6,6	-	-	-		
90	OHX	6	1970	80	0,6,6	-	-	-		
90	OHX	8	209	38	0,6,6	-	-	-		
90	OHX	6	1925	-	0,6,6	-	-	-		
90	OHX	4	211	-	0,6,6	-	-	-		
90	OHX	6	1996	80	0,6,6	-	-	-		
90	OHX	1	3661	-	0,6,6	-	-	-		
90	OHX	1	3575	-	0,6,6	-	-	-		
90	OHX	c5	201	-	0,6,6	-	-	-		
90	OHX	5	3672	-	0,6,6	-	-	-		
90	OHX	6	2005	-	0,6,6	-	-	-		
90	OHX	1	3481	-	0,6,6	-	-	-		
90	OHX	5	3577	83	0,6,6	-	-	-		
90	OHX	O9	101	-	0,6,6	-	-	-		
90	OHX	5	3436	83	0,6,6	-	-	-		
90	OHX	3	210	-	0,6,6	-	-	-		
90	OHX	5	3679	-	0,6,6	-	-	-		
90	OHX	5	3705	-	0,6,6	-	-	-		
90	OHX	1	3482	-	0,6,6	-	-	-		
90	OHX	6	1923	80	0,6,6	-	-	-		
90	OHX	1	3714	-	0,6,6	-	-	-		
90	OHX	2	1924	-	0,6,6	-	-	-		
90	OHX	2	1943	-	0,6,6	-	-	-		
90	OHX	1	3504	-	0,6,6	-	-	-		
90	OHX	1	3614	-	0,6,6	-	-	-		
90	OHX	1	3483	-	0,6,6	-	-	-		
90	OHX	5	3481	-	0,6,6	-	-	-		
90	OHX	5	3628	-	0,6,6	-	-	-		
90	OHX	M0	301	-	0,6,6	-	-	-		
90	OHX	5	3647	-	0,6,6	-	-	-		
90	OHX	5	3709	-	0,6,6	-	-	-		
90	OHX	2	1979	-	0,6,6	-	-	-		
90	OHX	o3	201	-	0,6,6	-	-	-		
90	OHX	5	3745	-	0,6,6	-	-	-		
90	OHX	1	3635	-	0,6,6	-	-	-		
90	OHX	2	1961	-	0,6,6	-	-	-		
90	OHX	6	1908	80	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	2	1977	-	0,6,6	-	-	-		
90	OHX	5	3449	-	0,6,6	-	-	-		
90	OHX	M5	302	-	0,6,6	-	-	-		
90	OHX	5	3437	83	0,6,6	-	-	-		
90	OHX	2	2025	-	0,6,6	-	-	-		
90	OHX	1	3600	-	0,6,6	-	-	-		
90	OHX	2	1953	-	0,6,6	-	-	-		
90	OHX	1	3665	-	0,6,6	-	-	-		
90	OHX	4	213	-	0,6,6	-	-	-		
90	OHX	1	3677	-	0,6,6	-	-	-		
90	OHX	1	3582	36	0,6,6	-	-	-		
90	OHX	5	3655	-	0,6,6	-	-	-		
90	OHX	5	3422	83	0,6,6	-	-	-		
90	OHX	6	1953	80	0,6,6	-	-	-		
90	OHX	4	208	38	0,6,6	-	-	-		
90	OHX	5	3720	83	0,6,6	-	-	-		
90	OHX	1	3641	-	0,6,6	-	-	-		
90	OHX	6	2059	-	0,6,6	-	-	-		
90	OHX	5	3465	-	0,6,6	-	-	-		
90	OHX	S8	301	-	0,6,6	-	-	-		
95	SPS	5	4176	91	20,23,23	3.41	10 (50%)	18,30,30	4.56	11 (61%)
90	OHX	2	2048	-	0,6,6	-	-	-		
90	OHX	1	3707	-	0,6,6	-	-	-		
90	OHX	6	1915	80	0,6,6	-	-	-		
90	OHX	5	3417	-	0,6,6	-	-	-		
90	OHX	5	3630	-	0,6,6	-	-	-		
90	OHX	5	3665	83	0,6,6	-	-	-		
90	OHX	5	3609	-	0,6,6	-	-	-		
90	OHX	2	1918	-	0,6,6	-	-	-		
90	OHX	2	2044	-	0,6,6	-	-	-		
90	OHX	1	3587	-	0,6,6	-	-	-		
90	OHX	5	3627	-	0,6,6	-	-	-		
90	OHX	5	3693	-	0,6,6	-	-	-		
90	OHX	6	2017	80	0,6,6	-	-	-		
90	OHX	1	3494	36	0,6,6	-	-	-		
90	OHX	2	2015	-	0,6,6	-	-	-		
90	OHX	6	1963	-	0,6,6	-	-	-		
90	OHX	5	3484	83	0,6,6	-	-	-		
90	OHX	6	2040	80	0,6,6	-	-	-		
90	OHX	1	3573	36	0,6,6	-	-	-		
90	OHX	6	2037	80	0,6,6	-	-	-		
90	OHX	s1	301	-	0,6,6	-	-	-		
90	OHX	2	1950	1	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	3	207	-	0,6,6	-	-	-		
90	OHX	1	3705	-	0,6,6	-	-	-		
90	OHX	1	3577	-	0,6,6	-	-	-		
90	OHX	5	3434	-	0,6,6	-	-	-		
90	OHX	1	3436	-	0,6,6	-	-	-		
90	OHX	5	3479	-	0,6,6	-	-	-		
90	OHX	6	1926	80	0,6,6	-	-	-		
90	OHX	5	3623	-	0,6,6	-	-	-		
90	OHX	1	3491	-	0,6,6	-	-	-		
90	OHX	5	3566	-	0,6,6	-	-	-		
90	OHX	5	3593	-	0,6,6	-	-	-		
90	OHX	1	3633	-	0,6,6	-	-	-		
90	OHX	1	3532	-	0,6,6	-	-	-		
90	OHX	5	3635	83	0,6,6	-	-	-		
90	OHX	5	3542	83	0,6,6	-	-	-		
90	OHX	5	3652	-	0,6,6	-	-	-		
90	OHX	2	1928	-	0,6,6	-	-	-		
90	OHX	5	3557	-	0,6,6	-	-	-		
90	OHX	1	3605	-	0,6,6	-	-	-		
90	OHX	5	3669	83	0,6,6	-	-	-		
90	OHX	1	3509	36	0,6,6	-	-	-		
90	OHX	1	3560	-	0,6,6	-	-	-		
90	OHX	4	210	-	0,6,6	-	-	-		
90	OHX	1	3524	-	0,6,6	-	-	-		
90	OHX	2	1976	-	0,6,6	-	-	-		
90	OHX	1	3506	-	0,6,6	-	-	-		
90	OHX	2	1904	1	0,6,6	-	-	-		
90	OHX	1	3490	-	0,6,6	-	-	-		
90	OHX	1	3550	-	0,6,6	-	-	-		
90	OHX	1	3712	36	0,6,6	-	-	-		
90	OHX	6	1913	80	0,6,6	-	-	-		
90	OHX	5	3427	-	0,6,6	-	-	-		
90	OHX	1	3713	-	0,6,6	-	-	-		
90	OHX	5	3461	83	0,6,6	-	-	-		
90	OHX	1	3449	36	0,6,6	-	-	-		
90	OHX	5	3492	-	0,6,6	-	-	-		
90	OHX	5	3605	-	0,6,6	-	-	-		
90	OHX	l9	201	-	0,6,6	-	-	-		
90	OHX	6	2058	-	0,6,6	-	-	-		
90	OHX	1	3606	-	0,6,6	-	-	-		
90	OHX	1	3549	-	0,6,6	-	-	-		
90	OHX	5	3661	-	0,6,6	-	-	-		
90	OHX	2	1933	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	2	1942	-	0,6,6	-	-	-		
90	OHX	2	2000	-	0,6,6	-	-	-		
90	OHX	1	3410	-	0,6,6	-	-	-		
90	OHX	2	2029	-	0,6,6	-	-	-		
90	OHX	5	3555	-	0,6,6	-	-	-		
90	OHX	5	3668	83	0,6,6	-	-	-		
90	OHX	5	3458	83	0,6,6	-	-	-		
90	OHX	5	3425	-	0,6,6	-	-	-		
90	OHX	8	207	-	0,6,6	-	-	-		
90	OHX	1	3616	36	0,6,6	-	-	-		
90	OHX	1	3654	-	0,6,6	-	-	-		
90	OHX	6	1921	80	0,6,6	-	-	-		
90	OHX	6	2016	80	0,6,6	-	-	-		
90	OHX	2	1987	1	0,6,6	-	-	-		
90	OHX	2	1975	-	0,6,6	-	-	-		
90	OHX	1	3484	-	0,6,6	-	-	-		
90	OHX	5	3483	-	0,6,6	-	-	-		
90	OHX	6	1980	-	0,6,6	-	-	-		
90	OHX	5	3525	83	0,6,6	-	-	-		
90	OHX	7	203	37	0,6,6	-	-	-		
90	OHX	1	3479	-	0,6,6	-	-	-		
90	OHX	6	2032	-	0,6,6	-	-	-		
90	OHX	5	3478	-	0,6,6	-	-	-		
90	OHX	6	2036	80	0,6,6	-	-	-		
90	OHX	m0	304	-	0,6,6	-	-	-		
90	OHX	8	208	38	0,6,6	-	-	-		
90	OHX	1	3574	-	0,6,6	-	-	-		
90	OHX	1	3644	-	0,6,6	-	-	-		
90	OHX	1	3702	-	0,6,6	-	-	-		
90	OHX	7	205	37	0,6,6	-	-	-		
90	OHX	5	3517	-	0,6,6	-	-	-		
90	OHX	L6	201	-	0,6,6	-	-	-		
90	OHX	5	3596	83	0,6,6	-	-	-		
90	OHX	o7	502	-	0,6,6	-	-	-		
90	OHX	2	1990	-	0,6,6	-	-	-		
90	OHX	1	3579	-	0,6,6	-	-	-		
90	OHX	5	3419	83	0,6,6	-	-	-		
90	OHX	3	201	-	0,6,6	-	-	-		
90	OHX	1	3721	-	0,6,6	-	-	-		
90	OHX	1	3698	36	0,6,6	-	-	-		
90	OHX	5	3413	-	0,6,6	-	-	-		
90	OHX	5	3650	-	0,6,6	-	-	-		
90	OHX	2	1948	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	2	1996	-	0,6,6	-	-	-		
90	OHX	2	1983	-	0,6,6	-	-	-		
90	OHX	1	3655	-	0,6,6	-	-	-		
90	OHX	M9	201	-	0,6,6	-	-	-		
90	OHX	5	3416	83	0,6,6	-	-	-		
90	OHX	5	3554	-	0,6,6	-	-	-		
90	OHX	2	2005	-	0,6,6	-	-	-		
90	OHX	M5	301	-	0,6,6	-	-	-		
90	OHX	5	3725	-	0,6,6	-	-	-		
90	OHX	6	1966	80	0,6,6	-	-	-		
90	OHX	5	3606	83	0,6,6	-	-	-		
90	OHX	5	3550	83	0,6,6	-	-	-		
90	OHX	5	3731	-	0,6,6	-	-	-		
90	OHX	1	3634	-	0,6,6	-	-	-		
90	OHX	1	3503	-	0,6,6	-	-	-		
90	OHX	2	1908	-	0,6,6	-	-	-		
90	OHX	2	2014	-	0,6,6	-	-	-		
90	OHX	1	3592	-	0,6,6	-	-	-		
90	OHX	5	3724	83	0,6,6	-	-	-		
90	OHX	m6	202	-	0,6,6	-	-	-		
90	OHX	1	3440	-	0,6,6	-	-	-		
90	OHX	5	3615	83	0,6,6	-	-	-		
90	OHX	1	3593	-	0,6,6	-	-	-		
90	OHX	5	3442	-	0,6,6	-	-	-		
90	OHX	6	1937	-	0,6,6	-	-	-		
90	OHX	6	2031	80	0,6,6	-	-	-		
90	OHX	5	3418	-	0,6,6	-	-	-		
90	OHX	2	1914	-	0,6,6	-	-	-		
90	OHX	1	3512	36	0,6,6	-	-	-		
90	OHX	2	1992	-	0,6,6	-	-	-		
90	OHX	5	3581	-	0,6,6	-	-	-		
90	OHX	6	1932	80	0,6,6	-	-	-		
90	OHX	6	1998	80	0,6,6	-	-	-		
90	OHX	5	3592	83	0,6,6	-	-	-		
90	OHX	5	3690	-	0,6,6	-	-	-		
90	OHX	2	1910	-	0,6,6	-	-	-		
90	OHX	5	3642	83	0,6,6	-	-	-		
90	OHX	2	1922	-	0,6,6	-	-	-		
90	OHX	2	1938	-	0,6,6	-	-	-		
90	OHX	5	3667	-	0,6,6	-	-	-		
90	OHX	1	3406	-	0,6,6	-	-	-		
90	OHX	6	1989	80	0,6,6	-	-	-		
90	OHX	M8	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	1	3454	-	0,6,6	-	-	-		
90	OHX	2	1999	-	0,6,6	-	-	-		
90	OHX	5	3409	-	0,6,6	-	-	-		
90	OHX	5	3598	83	0,6,6	-	-	-		
90	OHX	n9	101	-	0,6,6	-	-	-		
90	OHX	1	3478	-	0,6,6	-	-	-		
90	OHX	5	3702	-	0,6,6	-	-	-		
90	OHX	2	1968	-	0,6,6	-	-	-		
90	OHX	1	3557	-	0,6,6	-	-	-		
90	OHX	6	2024	-	0,6,6	-	-	-		
90	OHX	5	3441	83	0,6,6	-	-	-		
90	OHX	5	3454	-	0,6,6	-	-	-		
93	PHE	5	3401	-	10,11,12	1.23	1 (10%)	10,13,15	0.62	0
90	OHX	1	3595	-	0,6,6	-	-	-		
90	OHX	1	3447	-	0,6,6	-	-	-		
90	OHX	5	3629	83	0,6,6	-	-	-		
90	OHX	6	1911	-	0,6,6	-	-	-		
90	OHX	1	3419	36	0,6,6	-	-	-		
90	OHX	1	3542	-	0,6,6	-	-	-		
90	OHX	L6	202	-	0,6,6	-	-	-		
90	OHX	6	1944	80	0,6,6	-	-	-		
90	OHX	1	3533	-	0,6,6	-	-	-		
90	OHX	5	3564	83	0,6,6	-	-	-		
90	OHX	2	2022	-	0,6,6	-	-	-		
90	OHX	6	1945	80	0,6,6	-	-	-		
90	OHX	6	2057	80	0,6,6	-	-	-		
90	OHX	1	3464	-	0,6,6	-	-	-		
90	OHX	6	2039	80	0,6,6	-	-	-		
90	OHX	5	3735	-	0,6,6	-	-	-		
90	OHX	6	2013	80	0,6,6	-	-	-		
90	OHX	5	3597	83	0,6,6	-	-	-		
90	OHX	8	204	38	0,6,6	-	-	-		
90	OHX	1	3640	-	0,6,6	-	-	-		
90	OHX	1	3555	-	0,6,6	-	-	-		
90	OHX	2	1984	-	0,6,6	-	-	-		
90	OHX	5	3451	-	0,6,6	-	-	-		
90	OHX	4	212	-	0,6,6	-	-	-		
90	OHX	5	3634	-	0,6,6	-	-	-		
90	OHX	5	3514	83	0,6,6	-	-	-		
90	OHX	1	3668	-	0,6,6	-	-	-		
90	OHX	1	3442	-	0,6,6	-	-	-		
90	OHX	6	1994	-	0,6,6	-	-	-		
90	OHX	1	3458	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	5	3611	-	0,6,6	-	-	-		
90	OHX	1	3662	-	0,6,6	-	-	-		
90	OHX	1	3435	-	0,6,6	-	-	-		
90	OHX	5	3732	-	0,6,6	-	-	-		
90	OHX	5	3579	-	0,6,6	-	-	-		
90	OHX	5	3563	83	0,6,6	-	-	-		
90	OHX	5	3559	-	0,6,6	-	-	-		
90	OHX	5	3626	83	0,6,6	-	-	-		
90	OHX	5	3660	83	0,6,6	-	-	-		
90	OHX	5	3722	83	0,6,6	-	-	-		
90	OHX	2	1963	1	0,6,6	-	-	-		
90	OHX	5	3586	83	0,6,6	-	-	-		
90	OHX	5	3739	-	0,6,6	-	-	-		
90	OHX	5	3516	83	0,6,6	-	-	-		
90	OHX	2	1971	-	0,6,6	-	-	-		
90	OHX	1	3596	-	0,6,6	-	-	-		
90	OHX	6	1920	80	0,6,6	-	-	-		
90	OHX	5	3466	-	0,6,6	-	-	-		
90	OHX	2	2011	1	0,6,6	-	-	-		
90	OHX	6	1960	80	0,6,6	-	-	-		
90	OHX	3	206	-	0,6,6	-	-	-		
90	OHX	1	3629	36	0,6,6	-	-	-		
90	OHX	1	3489	-	0,6,6	-	-	-		
90	OHX	1	3624	-	0,6,6	-	-	-		
90	OHX	O3	201	-	0,6,6	-	-	-		
90	OHX	5	3453	83	0,6,6	-	-	-		
90	OHX	5	3523	-	0,6,6	-	-	-		
90	OHX	1	3416	-	0,6,6	-	-	-		
90	OHX	5	3699	-	0,6,6	-	-	-		
90	OHX	1	3420	-	0,6,6	-	-	-		
90	OHX	5	3641	-	0,6,6	-	-	-		
90	OHX	1	3511	-	0,6,6	-	-	-		
90	OHX	6	1934	-	0,6,6	-	-	-		
90	OHX	6	1969	-	0,6,6	-	-	-		
90	OHX	5	3414	-	0,6,6	-	-	-		
90	OHX	5	3489	-	0,6,6	-	-	-		
90	OHX	6	1941	80	0,6,6	-	-	-		
90	OHX	1	3510	-	0,6,6	-	-	-		
90	OHX	1	3418	-	0,6,6	-	-	-		
90	OHX	1	3437	-	0,6,6	-	-	-		
90	OHX	1	3678	36	0,6,6	-	-	-		
90	OHX	1	3443	-	0,6,6	-	-	-		
90	OHX	s9	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	1	3492	-	0,6,6	-	-	-		
90	OHX	5	3570	-	0,6,6	-	-	-		
90	OHX	5	3633	-	0,6,6	-	-	-		
90	OHX	1	3461	-	0,6,6	-	-	-		
90	OHX	2	2028	-	0,6,6	-	-	-		
90	OHX	1	3711	-	0,6,6	-	-	-		
90	OHX	7	208	-	0,6,6	-	-	-		
90	OHX	1	3456	-	0,6,6	-	-	-		
90	OHX	5	3671	83	0,6,6	-	-	-		
90	OHX	4	219	-	0,6,6	-	-	-		
90	OHX	8	216	38	0,6,6	-	-	-		
90	OHX	4	217	38	0,6,6	-	-	-		
90	OHX	2	1972	1	0,6,6	-	-	-		
90	OHX	5	3574	-	0,6,6	-	-	-		
90	OHX	1	3642	-	0,6,6	-	-	-		
90	OHX	5	3711	-	0,6,6	-	-	-		
90	OHX	6	2046	-	0,6,6	-	-	-		
90	OHX	5	3491	-	0,6,6	-	-	-		
90	OHX	6	1948	80	0,6,6	-	-	-		
90	OHX	5	3651	-	0,6,6	-	-	-		
90	OHX	6	1928	80	0,6,6	-	-	-		
90	OHX	5	3658	83	0,6,6	-	-	-		
90	OHX	6	1931	80	0,6,6	-	-	-		
90	OHX	5	3703	-	0,6,6	-	-	-		
90	OHX	1	3666	-	0,6,6	-	-	-		
90	OHX	sR	401	-	0,6,6	-	-	-		
90	OHX	1	3594	-	0,6,6	-	-	-		
90	OHX	1	3441	-	0,6,6	-	-	-		
90	OHX	5	3431	83	0,6,6	-	-	-		
90	OHX	O7	104	-	0,6,6	-	-	-		
90	OHX	1	3487	-	0,6,6	-	-	-		
90	OHX	5	3435	-	0,6,6	-	-	-		
90	OHX	1	3547	-	0,6,6	-	-	-		
90	OHX	5	3522	-	0,6,6	-	-	-		
90	OHX	3	204	-	0,6,6	-	-	-		
90	OHX	2	1978	-	0,6,6	-	-	-		
90	OHX	5	3432	-	0,6,6	-	-	-		
90	OHX	5	3551	83	0,6,6	-	-	-		
90	OHX	4	209	-	0,6,6	-	-	-		
90	OHX	6	1956	-	0,6,6	-	-	-		
90	OHX	1	3523	-	0,6,6	-	-	-		
90	OHX	6	2009	-	0,6,6	-	-	-		
90	OHX	5	3733	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	6	2044	-	0,6,6	-	-	-		
90	OHX	5	3681	83	0,6,6	-	-	-		
90	OHX	1	3709	-	0,6,6	-	-	-		
90	OHX	6	1933	-	0,6,6	-	-	-		
90	OHX	6	1936	-	0,6,6	-	-	-		
90	OHX	M6	201	-	0,6,6	-	-	-		
90	OHX	5	3571	-	0,6,6	-	-	-		
90	OHX	2	1944	-	0,6,6	-	-	-		
90	OHX	6	1964	80	0,6,6	-	-	-		
90	OHX	6	2035	-	0,6,6	-	-	-		
90	OHX	2	1967	-	0,6,6	-	-	-		
90	OHX	5	3488	83	0,6,6	-	-	-		
90	OHX	5	3544	83	0,6,6	-	-	-		
90	OHX	6	1973	80	0,6,6	-	-	-		
90	OHX	5	3654	-	0,6,6	-	-	-		
90	OHX	2	2042	-	0,6,6	-	-	-		
90	OHX	5	3602	-	0,6,6	-	-	-		
90	OHX	5	3567	-	0,6,6	-	-	-		
90	OHX	1	3673	-	0,6,6	-	-	-		
90	OHX	6	2053	80	0,6,6	-	-	-		
90	OHX	1	3694	-	0,6,6	-	-	-		
90	OHX	1	3704	-	0,6,6	-	-	-		
90	OHX	5	3614	-	0,6,6	-	-	-		
90	OHX	5	3476	-	0,6,6	-	-	-		
90	OHX	5	3648	-	0,6,6	-	-	-		
90	OHX	2	2031	-	0,6,6	-	-	-		
90	OHX	6	2047	-	0,6,6	-	-	-		
90	OHX	5	3510	83	0,6,6	-	-	-		
90	OHX	5	3673	83	0,6,6	-	-	-		
90	OHX	5	3687	-	0,6,6	-	-	-		
90	OHX	5	3608	-	0,6,6	-	-	-		
90	OHX	2	1966	1	0,6,6	-	-	-		
90	OHX	6	1993	80	0,6,6	-	-	-		
90	OHX	5	3407	-	0,6,6	-	-	-		
90	OHX	1	3417	-	0,6,6	-	-	-		
90	OHX	1	3658	-	0,6,6	-	-	-		
90	OHX	1	3722	-	0,6,6	-	-	-		
90	OHX	1	3586	-	0,6,6	-	-	-		
90	OHX	2	1913	-	0,6,6	-	-	-		
90	OHX	Q2	502	-	0,6,6	-	-	-		
90	OHX	6	2045	-	0,6,6	-	-	-		
90	OHX	1	3675	-	0,6,6	-	-	-		
90	OHX	5	3594	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	5	3589	83	0,6,6	-	-	-		
90	OHX	6	1984	-	0,6,6	-	-	-		
90	OHX	1	3433	-	0,6,6	-	-	-		
90	OHX	2	1901	-	0,6,6	-	-	-		
90	OHX	1	3728	-	0,6,6	-	-	-		
90	OHX	5	3698	-	0,6,6	-	-	-		
90	OHX	5	3620	-	0,6,6	-	-	-		
90	OHX	1	3432	-	0,6,6	-	-	-		
90	OHX	2	1981	-	0,6,6	-	-	-		
90	OHX	8	217	38	0,6,6	-	-	-		
90	OHX	1	3529	36	0,6,6	-	-	-		
90	OHX	5	3622	83	0,6,6	-	-	-		
90	OHX	5	3474	83	0,6,6	-	-	-		
90	OHX	m0	302	-	0,6,6	-	-	-		
90	OHX	6	2030	80	0,6,6	-	-	-		
90	OHX	1	3475	-	0,6,6	-	-	-		
90	OHX	5	3659	-	0,6,6	-	-	-		
90	OHX	3	208	-	0,6,6	-	-	-		
90	OHX	2	2026	-	0,6,6	-	-	-		
94	LEU	1	3402	-	5,7,8	0.43	0	5,8,10	0.61	0
90	OHX	2	1955	-	0,6,6	-	-	-		
90	OHX	6	1992	-	0,6,6	-	-	-		
90	OHX	5	3663	-	0,6,6	-	-	-		
90	OHX	1	3607	-	0,6,6	-	-	-		
90	OHX	5	3631	83	0,6,6	-	-	-		
90	OHX	2	1985	-	0,6,6	-	-	-		
90	OHX	7	209	37	0,6,6	-	-	-		
90	OHX	2	1903	-	0,6,6	-	-	-		
90	OHX	1	3544	-	0,6,6	-	-	-		
90	OHX	1	3682	-	0,6,6	-	-	-		
90	OHX	5	3463	-	0,6,6	-	-	-		
90	OHX	5	3737	83	0,6,6	-	-	-		
90	OHX	5	3501	83	0,6,6	-	-	-		
90	OHX	1	3602	-	0,6,6	-	-	-		
90	OHX	1	3645	-	0,6,6	-	-	-		
90	OHX	2	2021	-	0,6,6	-	-	-		
90	OHX	5	3485	83	0,6,6	-	-	-		
90	OHX	1	3652	-	0,6,6	-	-	-		
90	OHX	1	3538	-	0,6,6	-	-	-		
90	OHX	5	3607	-	0,6,6	-	-	-		
90	OHX	1	3476	-	0,6,6	-	-	-		
90	OHX	1	3648	-	0,6,6	-	-	-		
90	OHX	1	3717	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	2	2035	1	0,6,6	-	-	-		
90	OHX	1	3617	-	0,6,6	-	-	-		
90	OHX	1	3601	-	0,6,6	-	-	-		
90	OHX	5	3682	83	0,6,6	-	-	-		
90	OHX	m5	302	-	0,6,6	-	-	-		
90	OHX	o7	503	-	0,6,6	-	-	-		
90	OHX	1	3690	-	0,6,6	-	-	-		
90	OHX	1	3651	-	0,6,6	-	-	-		
90	OHX	M7	201	-	0,6,6	-	-	-		
90	OHX	1	3457	-	0,6,6	-	-	-		
90	OHX	5	3645	-	0,6,6	-	-	-		
90	OHX	5	3704	83	0,6,6	-	-	-		
90	OHX	6	1968	80	0,6,6	-	-	-		
90	OHX	l5	302	-	0,6,6	-	-	-		
90	OHX	1	3450	-	0,6,6	-	-	-		
90	OHX	2	1916	-	0,6,6	-	-	-		
90	OHX	6	1971	80	0,6,6	-	-	-		
90	OHX	1	3405	-	0,6,6	-	-	-		
90	OHX	1	3597	-	0,6,6	-	-	-		
96	8AN	p	101	91,89	19,24,25	1.06	1 (5%)	13,35,38	1.71	4 (30%)
90	OHX	5	3573	-	0,6,6	-	-	-		
90	OHX	1	3583	-	0,6,6	-	-	-		
90	OHX	1	3589	-	0,6,6	-	-	-		
90	OHX	1	3590	-	0,6,6	-	-	-		
90	OHX	5	3433	-	0,6,6	-	-	-		
90	OHX	1	3470	-	0,6,6	-	-	-		
90	OHX	1	3647	-	0,6,6	-	-	-		
90	OHX	5	3588	83	0,6,6	-	-	-		
90	OHX	1	3719	-	0,6,6	-	-	-		
90	OHX	5	3405	83	0,6,6	-	-	-		
90	OHX	4	205	-	0,6,6	-	-	-		
90	OHX	6	2007	80	0,6,6	-	-	-		
90	OHX	1	3620	-	0,6,6	-	-	-		
90	OHX	1	3623	-	0,6,6	-	-	-		
90	OHX	6	1958	80	0,6,6	-	-	-		
90	OHX	1	3683	36	0,6,6	-	-	-		
90	OHX	5	3585	83	0,6,6	-	-	-		
90	OHX	2	1940	-	0,6,6	-	-	-		
90	OHX	m9	201	-	0,6,6	-	-	-		
90	OHX	5	3502	-	0,6,6	-	-	-		
90	OHX	5	3540	83	0,6,6	-	-	-		
90	OHX	1	3567	-	0,6,6	-	-	-		
90	OHX	1	3621	36	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	6	1917	80	0,6,6	-	-	-		
90	OHX	6	1974	80	0,6,6	-	-	-		
90	OHX	1	3565	-	0,6,6	-	-	-		
90	OHX	1	3408	-	0,6,6	-	-	-		
90	OHX	1	3636	-	0,6,6	-	-	-		
90	OHX	5	3509	83	0,6,6	-	-	-		
90	OHX	1	3473	-	0,6,6	-	-	-		
90	OHX	5	3729	83	0,6,6	-	-	-		
90	OHX	1	3659	-	0,6,6	-	-	-		
90	OHX	1	3571	-	0,6,6	-	-	-		
90	OHX	1	3531	-	0,6,6	-	-	-		
90	OHX	1	3581	-	0,6,6	-	-	-		
90	OHX	1	3703	-	0,6,6	-	-	-		
90	OHX	6	1978	-	0,6,6	-	-	-		
90	OHX	2	2027	-	0,6,6	-	-	-		
90	OHX	6	2011	-	0,6,6	-	-	-		
90	OHX	5	3428	83	0,6,6	-	-	-		
90	OHX	5	3742	-	0,6,6	-	-	-		
90	OHX	1	3701	36	0,6,6	-	-	-		
90	OHX	1	3663	-	0,6,6	-	-	-		
90	OHX	1	3502	-	0,6,6	-	-	-		
90	OHX	5	3740	-	0,6,6	-	-	-		
90	OHX	3	203	-	0,6,6	-	-	-		
90	OHX	2	1939	-	0,6,6	-	-	-		
90	OHX	2	1988	-	0,6,6	-	-	-		
90	OHX	2	1957	-	0,6,6	-	-	-		
90	OHX	1	3546	-	0,6,6	-	-	-		
90	OHX	5	3549	-	0,6,6	-	-	-		
90	OHX	6	1982	80	0,6,6	-	-	-		
90	OHX	6	2050	80	0,6,6	-	-	-		
90	OHX	2	1945	-	0,6,6	-	-	-		
90	OHX	6	1949	-	0,6,6	-	-	-		
90	OHX	5	3440	-	0,6,6	-	-	-		
90	OHX	5	3715	83	0,6,6	-	-	-		
90	OHX	5	3689	-	0,6,6	-	-	-		
90	OHX	2	2036	-	0,6,6	-	-	-		
90	OHX	q2	502	-	0,6,6	-	-	-		
90	OHX	5	3543	83	0,6,6	-	-	-		
90	OHX	5	3587	-	0,6,6	-	-	-		
90	OHX	s8	301	-	0,6,6	-	-	-		
90	OHX	1	3517	-	0,6,6	-	-	-		
90	OHX	6	1927	80	0,6,6	-	-	-		
90	OHX	5	3545	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
90	OHX	5	3558	-	0,6,6	-	-	-		
90	OHX	1	3477	-	0,6,6	-	-	-		
90	OHX	4	207	38	0,6,6	-	-	-		
90	OHX	5	3534	83	0,6,6	-	-	-		
90	OHX	6	2020	-	0,6,6	-	-	-		
90	OHX	2	1964	-	0,6,6	-	-	-		
90	OHX	5	3444	-	0,6,6	-	-	-		
90	OHX	5	3639	-	0,6,6	-	-	-		
90	OHX	5	3482	83	0,6,6	-	-	-		
90	OHX	D9	102	-	0,6,6	-	-	-		
90	OHX	1	3463	-	0,6,6	-	-	-		
90	OHX	5	3531	83	0,6,6	-	-	-		
90	OHX	5	3580	-	0,6,6	-	-	-		
90	OHX	2	1998	-	0,6,6	-	-	-		
90	OHX	5	3457	-	0,6,6	-	-	-		
90	OHX	2	2051	-	0,6,6	-	-	-		
90	OHX	2	2008	-	0,6,6	-	-	-		
90	OHX	5	3583	-	0,6,6	-	-	-		
90	OHX	5	3744	-	0,6,6	-	-	-		
90	OHX	1	3622	-	0,6,6	-	-	-		
90	OHX	3	205	-	0,6,6	-	-	-		
90	OHX	3	202	-	0,6,6	-	-	-		
90	OHX	6	1906	-	0,6,6	-	-	-		
90	OHX	2	2003	-	0,6,6	-	-	-		
90	OHX	6	2056	80	0,6,6	-	-	-		
90	OHX	5	3539	83	0,6,6	-	-	-		
90	OHX	SR	401	-	0,6,6	-	-	-		
90	OHX	6	2006	80	0,6,6	-	-	-		
90	OHX	1	3536	-	0,6,6	-	-	-		
90	OHX	1	3446	-	0,6,6	-	-	-		
90	OHX	1	3720	-	0,6,6	-	-	-		
90	OHX	3	209	-	0,6,6	-	-	-		
90	OHX	6	1935	80	0,6,6	-	-	-		
90	OHX	5	3445	-	0,6,6	-	-	-		
90	OHX	5	3448	-	0,6,6	-	-	-		
90	OHX	1	3459	-	0,6,6	-	-	-		
90	OHX	5	3527	83	0,6,6	-	-	-		
90	OHX	5	3674	83	0,6,6	-	-	-		
90	OHX	1	3411	-	0,6,6	-	-	-		
90	OHX	c3	201	-	0,6,6	-	-	-		
90	OHX	1	3631	-	0,6,6	-	-	-		
90	OHX	6	1909	80	0,6,6	-	-	-		
90	OHX	5	3657	83	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	2	1915	-	0,6,6	-	-	-		
90	OHX	2	2018	-	0,6,6	-	-	-		
90	OHX	1	3630	-	0,6,6	-	-	-		
90	OHX	5	3450	83	0,6,6	-	-	-		
90	OHX	5	3584	83	0,6,6	-	-	-		
90	OHX	5	3734	-	0,6,6	-	-	-		
90	OHX	5	3467	-	0,6,6	-	-	-		
90	OHX	5	3743	-	0,6,6	-	-	-		
90	OHX	1	3501	-	0,6,6	-	-	-		
90	OHX	5	3714	83	0,6,6	-	-	-		
90	OHX	5	3411	-	0,6,6	-	-	-		
90	OHX	2	1995	-	0,6,6	-	-	-		
90	OHX	5	3565	83	0,6,6	-	-	-		
90	OHX	1	3653	-	0,6,6	-	-	-		
90	OHX	6	2048	80	0,6,6	-	-	-		
90	OHX	5	3738	83	0,6,6	-	-	-		
90	OHX	2	1902	-	0,6,6	-	-	-		
90	OHX	2	1951	-	0,6,6	-	-	-		
90	OHX	5	3619	-	0,6,6	-	-	-		
90	OHX	C7	201	-	0,6,6	-	-	-		
90	OHX	8	205	-	0,6,6	-	-	-		
94	LEU	5	3402	-	5,7,8	0.44	0	5,8,10	0.60	0
90	OHX	1	3451	-	0,6,6	-	-	-		
90	OHX	6	1918	80	0,6,6	-	-	-		
90	OHX	1	3471	-	0,6,6	-	-	-		
90	OHX	1	3508	-	0,6,6	-	-	-		
90	OHX	5	3683	83	0,6,6	-	-	-		
90	OHX	5	3716	-	0,6,6	-	-	-		
90	OHX	2	1907	-	0,6,6	-	-	-		
90	OHX	N9	101	-	0,6,6	-	-	-		
90	OHX	O4	201	-	0,6,6	-	-	-		
90	OHX	5	3616	-	0,6,6	-	-	-		
90	OHX	5	3471	83	0,6,6	-	-	-		
90	OHX	6	2027	-	0,6,6	-	-	-		
90	OHX	6	2023	80	0,6,6	-	-	-		
90	OHX	5	3498	83	0,6,6	-	-	-		
90	OHX	2	1925	-	0,6,6	-	-	-		
90	OHX	2	1973	-	0,6,6	-	-	-		
90	OHX	1	3534	-	0,6,6	-	-	-		
90	OHX	1	3691	-	0,6,6	-	-	-		
90	OHX	5	3426	-	0,6,6	-	-	-		
90	OHX	5	3537	-	0,6,6	-	-	-		
90	OHX	1	3444	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	5	3462	-	0,6,6	-	-	-		
90	OHX	6	1952	80	0,6,6	-	-	-		
90	OHX	5	3496	-	0,6,6	-	-	-		
90	OHX	6	2043	-	0,6,6	-	-	-		
90	OHX	1	3424	-	0,6,6	-	-	-		
90	OHX	1	3716	-	0,6,6	-	-	-		
90	OHX	1	3415	-	0,6,6	-	-	-		
90	OHX	5	3497	83	0,6,6	-	-	-		
90	OHX	2	1923	1	0,6,6	-	-	-		
95	SPS	1	4125	91	20,23,23	3.41	9 (45%)	18,30,30	5.63	12 (66%)
90	OHX	4	203	-	0,6,6	-	-	-		
90	OHX	5	3504	-	0,6,6	-	-	-		
90	OHX	6	1950	-	0,6,6	-	-	-		
90	OHX	6	1962	80	0,6,6	-	-	-		
90	OHX	5	3487	-	0,6,6	-	-	-		
90	OHX	5	3546	-	0,6,6	-	-	-		
90	OHX	1	3516	-	0,6,6	-	-	-		
90	OHX	1	3729	-	0,6,6	-	-	-		
90	OHX	6	2054	-	0,6,6	-	-	-		
90	OHX	m8	201	-	0,6,6	-	-	-		
90	OHX	1	3674	-	0,6,6	-	-	-		
90	OHX	1	3448	36	0,6,6	-	-	-		
90	OHX	6	1976	80	0,6,6	-	-	-		
90	OHX	6	2003	-	0,6,6	-	-	-		
90	OHX	2	1954	-	0,6,6	-	-	-		
90	OHX	5	3513	83	0,6,6	-	-	-		
90	OHX	5	3568	-	0,6,6	-	-	-		
90	OHX	6	2042	80	0,6,6	-	-	-		
90	OHX	5	3511	83	0,6,6	-	-	-		
90	OHX	5	3640	83	0,6,6	-	-	-		
96	8AN	P	101	91,89	19,24,25	1.06	1 (5%)	13,35,38	1.71	4 (30%)
90	OHX	2	1974	-	0,6,6	-	-	-		
90	OHX	5	3706	-	0,6,6	-	-	-		
90	OHX	1	3657	-	0,6,6	-	-	-		
90	OHX	5	3723	83	0,6,6	-	-	-		
90	OHX	2	1920	-	0,6,6	-	-	-		
90	OHX	2	2033	1	0,6,6	-	-	-		
90	OHX	1	3522	-	0,6,6	-	-	-		
90	OHX	1	3530	36	0,6,6	-	-	-		
90	OHX	1	3553	-	0,6,6	-	-	-		
90	OHX	1	3618	-	0,6,6	-	-	-		
90	OHX	6	2049	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	1	3505	-	0,6,6	-	-	-		
90	OHX	5	3499	83	0,6,6	-	-	-		
90	OHX	5	3728	83	0,6,6	-	-	-		
90	OHX	2	1906	-	0,6,6	-	-	-		
90	OHX	6	1961	-	0,6,6	-	-	-		
90	OHX	2	1949	-	0,6,6	-	-	-		
90	OHX	6	1942	80	0,6,6	-	-	-		
90	OHX	6	2014	80	0,6,6	-	-	-		
90	OHX	5	3536	-	0,6,6	-	-	-		
90	OHX	5	3612	-	0,6,6	-	-	-		
90	OHX	5	3519	-	0,6,6	-	-	-		
90	OHX	2	2010	-	0,6,6	-	-	-		
90	OHX	5	3638	83	0,6,6	-	-	-		
90	OHX	1	3578	-	0,6,6	-	-	-		
90	OHX	6	2029	80	0,6,6	-	-	-		
90	OHX	5	3530	-	0,6,6	-	-	-		
90	OHX	5	3618	-	0,6,6	-	-	-		
90	OHX	2	1980	-	0,6,6	-	-	-		
90	OHX	5	3512	-	0,6,6	-	-	-		
90	OHX	5	3505	-	0,6,6	-	-	-		
90	OHX	1	3403	-	0,6,6	-	-	-		
90	OHX	5	3468	-	0,6,6	-	-	-		
90	OHX	1	3671	-	0,6,6	-	-	-		
90	OHX	5	3625	83	0,6,6	-	-	-		
90	OHX	1	3558	-	0,6,6	-	-	-		
90	OHX	1	3485	-	0,6,6	-	-	-		
90	OHX	5	3475	83	0,6,6	-	-	-		
90	OHX	5	3675	-	0,6,6	-	-	-		
90	OHX	5	3676	-	0,6,6	-	-	-		
90	OHX	7	211	-	0,6,6	-	-	-		
90	OHX	2	2024	-	0,6,6	-	-	-		
90	OHX	5	3412	-	0,6,6	-	-	-		
90	OHX	1	3498	36	0,6,6	-	-	-		
90	OHX	6	2028	80	0,6,6	-	-	-		
90	OHX	1	3488	-	0,6,6	-	-	-		
90	OHX	5	3403	83	0,6,6	-	-	-		
90	OHX	1	3426	-	0,6,6	-	-	-		
90	OHX	4	223	-	0,6,6	-	-	-		
90	OHX	6	1981	80	0,6,6	-	-	-		
90	OHX	1	3462	-	0,6,6	-	-	-		
90	OHX	1	3496	-	0,6,6	-	-	-		
90	OHX	1	3580	-	0,6,6	-	-	-		
90	OHX	8	213	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
90	OHX	5	3680	-	0,6,6	-	-	-		
90	OHX	1	3497	-	0,6,6	-	-	-		
90	OHX	1	3413	-	0,6,6	-	-	-		
90	OHX	5	3686	-	0,6,6	-	-	-		
90	OHX	1	3552	-	0,6,6	-	-	-		
90	OHX	5	3410	-	0,6,6	-	-	-		
90	OHX	5	3429	83	0,6,6	-	-	-		
90	OHX	5	3685	-	0,6,6	-	-	-		
90	OHX	2	1982	-	0,6,6	-	-	-		
90	OHX	6	1930	80	0,6,6	-	-	-		
90	OHX	2	2041	-	0,6,6	-	-	-		
90	OHX	1	3445	-	0,6,6	-	-	-		
90	OHX	6	1985	-	0,6,6	-	-	-		
90	OHX	6	1903	-	0,6,6	-	-	-		
90	OHX	5	3532	83	0,6,6	-	-	-		
90	OHX	1	3603	-	0,6,6	-	-	-		
90	OHX	6	1919	80	0,6,6	-	-	-		
90	OHX	5	3500	-	0,6,6	-	-	-		
90	OHX	1	3724	-	0,6,6	-	-	-		
90	OHX	S9	201	-	0,6,6	-	-	-		
90	OHX	2	2012	1	0,6,6	-	-	-		
90	OHX	2	2006	-	0,6,6	-	-	-		
90	OHX	1	3548	-	0,6,6	-	-	-		
90	OHX	6	2021	-	0,6,6	-	-	-		
90	OHX	6	2022	-	0,6,6	-	-	-		
90	OHX	2	1935	-	0,6,6	-	-	-		
90	OHX	1	3467	-	0,6,6	-	-	-		
90	OHX	1	3615	-	0,6,6	-	-	-		
90	OHX	6	1991	80	0,6,6	-	-	-		
90	OHX	1	3681	-	0,6,6	-	-	-		
90	OHX	6	1954	-	0,6,6	-	-	-		
90	OHX	5	3470	-	0,6,6	-	-	-		
90	OHX	7	201	-	0,6,6	-	-	-		
90	OHX	1	3541	-	0,6,6	-	-	-		
90	OHX	6	1904	-	0,6,6	-	-	-		
90	OHX	5	3430	-	0,6,6	-	-	-		
90	OHX	5	3506	-	0,6,6	-	-	-		
90	OHX	1	3638	-	0,6,6	-	-	-		
90	OHX	5	3649	-	0,6,6	-	-	-		
90	OHX	8	203	-	0,6,6	-	-	-		

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the

Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
96	8AN	p	101	91,89	-	1/3/25/26	0/3/3/3
95	SPS	1	4125	91	-	1/15/18/18	0/1/1/1
96	8AN	P	101	91,89	-	1/3/25/26	0/3/3/3
94	LEU	1	3402	-	-	4/5/6/8	-
95	SPS	5	4176	91	-	3/15/18/18	0/1/1/1
93	PHE	5	3401	-	-	3/5/6/8	0/1/1/1
93	PHE	1	3401	-	-	3/5/6/8	0/1/1/1
94	LEU	5	3402	-	-	4/5/6/8	-

The worst 5 of 23 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
95	1	4125	SPS	C9-C8	8.26	1.54	1.33
95	5	4176	SPS	C9-C8	7.69	1.53	1.33
95	5	4176	SPS	C9-C10	-7.39	1.32	1.48
95	1	4125	SPS	C9-C10	-5.96	1.35	1.48
95	1	4125	SPS	C10-N11	5.15	1.46	1.34

The worst 5 of 31 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
95	1	4125	SPS	C3-N2-C1	12.81	125.96	115.14
95	1	4125	SPS	O15-S15-C16	-11.93	92.28	106.47
95	5	4176	SPS	C3-N2-C1	9.98	123.57	115.14
95	1	4125	SPS	C6-C1-N2	-9.49	117.79	124.40
95	1	4125	SPS	O13-C13-C12	7.47	131.24	111.95

There are no chirality outliers.

5 of 20 torsion outliers are listed below:

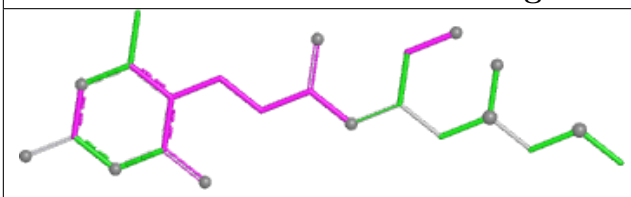
Mol	Chain	Res	Type	Atoms
93	1	3401	PHE	O-C-CA-CB
93	5	3401	PHE	O-C-CA-CB
94	1	3402	LEU	C-CA-CB-CG
94	5	3402	LEU	C-CA-CB-CG
95	1	4125	SPS	N11-C12-C14-S15

There are no ring outliers.

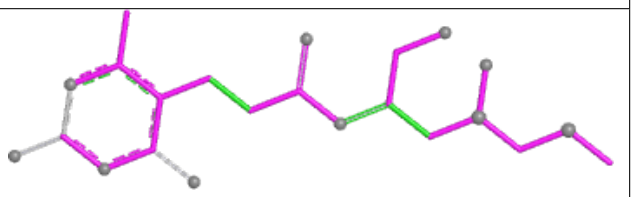
No monomer is involved in short contacts.

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

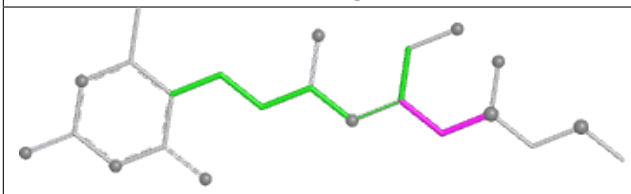
Ligand SPS 5 4176



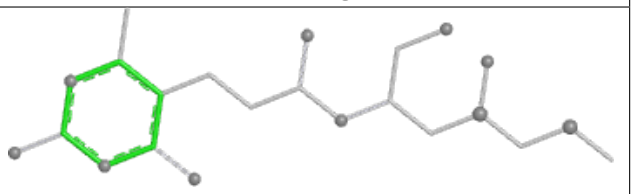
Bond lengths



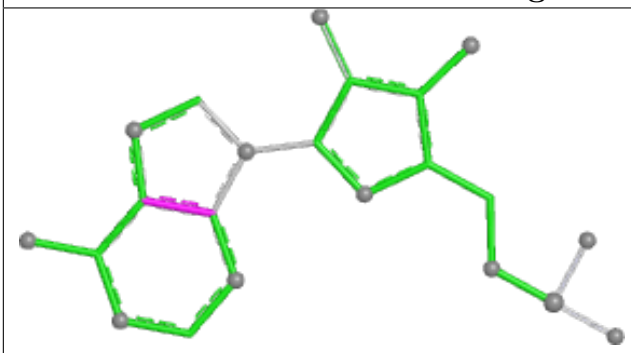
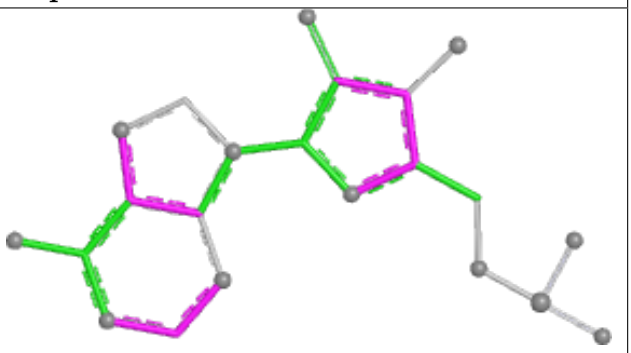
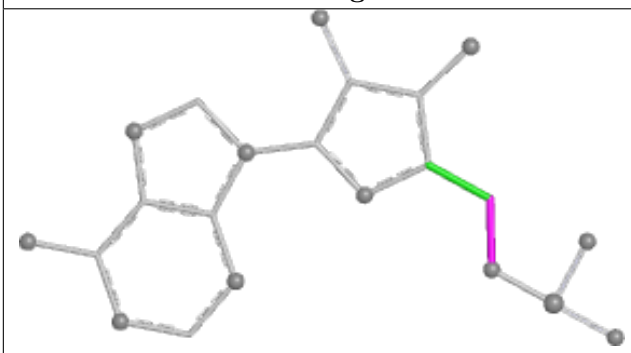
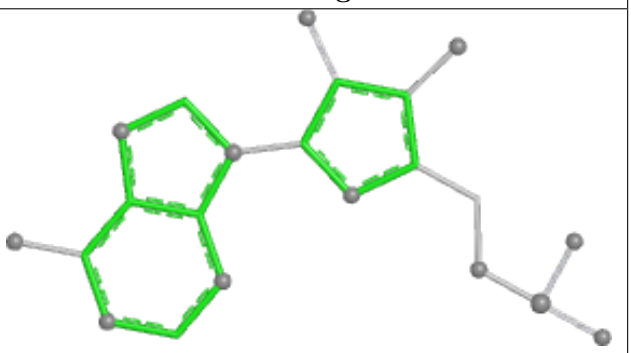
Bond angles

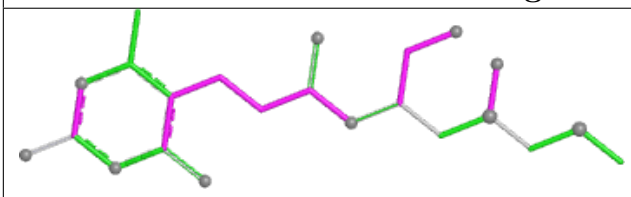
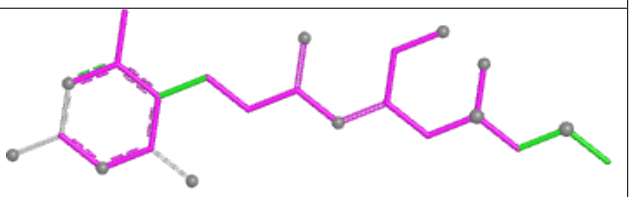
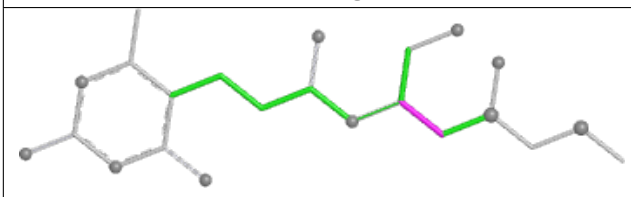
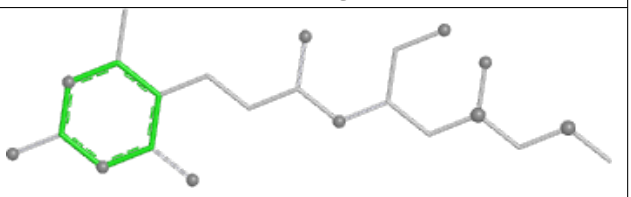


Torsions

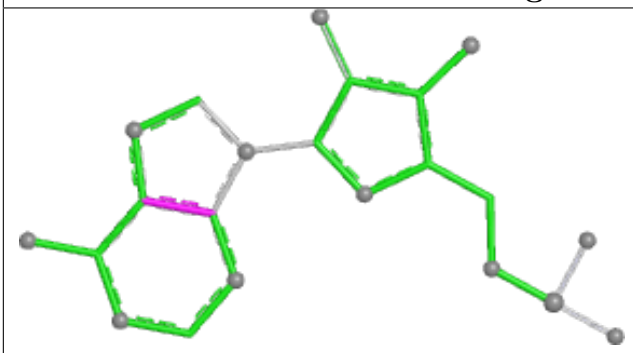


Rings

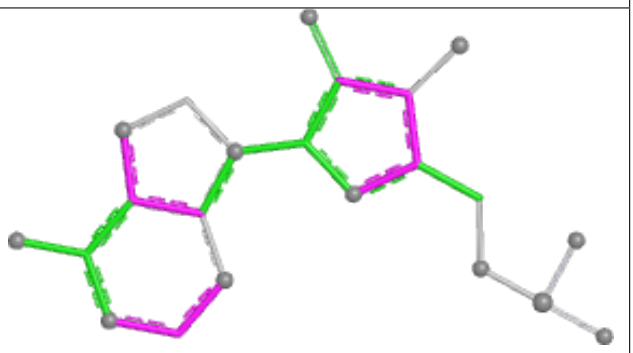
Ligand 8AN p 101	
 Bond lengths	 Bond angles
 Torsions	 Rings

Ligand SPS 1 4125	
 Bond lengths	 Bond angles
 Torsions	 Rings

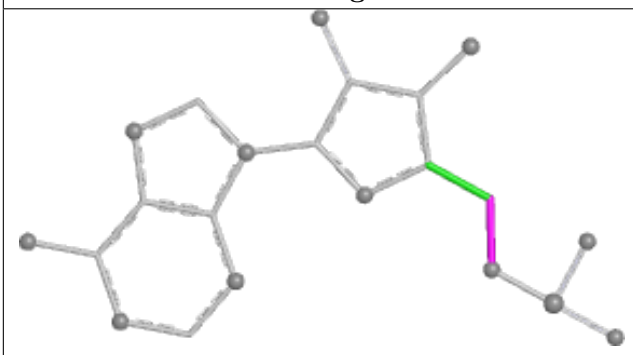
Ligand 8AN P 101



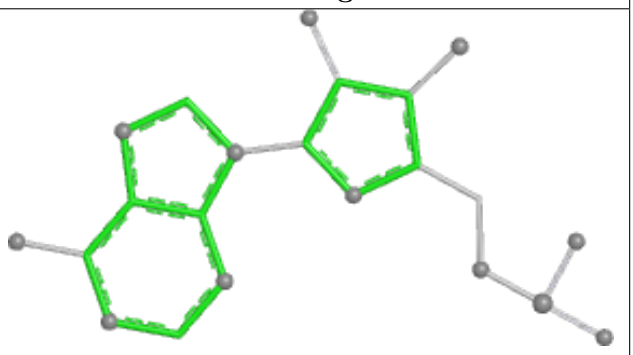
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
36	1	3
83	5	3
1	2	2
41	l4	2
13	C1	1
57	n1	1
68	O2	1
40	l3	1
6	S4	1

The worst 5 of 15 chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	1781:U	O3'	1782:C	P	145.43
1	1	1955:U	O3'	2093:A	P	25.58
1	5	2444:C	O3'	2503:G	P	19.59
1	2	658:C	O3'	659:G	P	18.47
1	5	1953:G	O3'	2093:A	P	16.42

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	2	1781/1812 (98%)	0.61	139 (7%) 13 13	60, 89, 120, 149	0
2	S0	206/206 (100%)	1.45	61 (29%) 0 0	93, 99, 105, 107	0
2	s0	206/206 (100%)	0.62	18 (8%) 10 11	77, 83, 89, 90	0
3	S1	214/216 (99%)	0.58	18 (8%) 11 11	95, 106, 113, 113	0
3	s1	216/216 (100%)	0.64	12 (5%) 24 22	70, 75, 81, 84	0
4	S2	217/217 (100%)	1.42	67 (30%) 0 0	81, 88, 96, 99	0
4	s2	217/217 (100%)	0.95	32 (14%) 2 3	67, 73, 79, 81	0
5	S3	223/223 (100%)	1.50	67 (30%) 0 0	85, 96, 110, 115	0
5	s3	223/223 (100%)	1.65	80 (35%) 0 0	91, 102, 113, 114	0
6	S4	260/260 (100%)	0.93	32 (12%) 4 5	75, 88, 91, 93	0
6	s4	260/260 (100%)	0.49	9 (3%) 44 39	59, 73, 78, 80	0
7	S5	206/206 (100%)	1.39	57 (27%) 0 0	97, 105, 111, 113	0
7	s5	206/206 (100%)	0.91	42 (20%) 1 1	90, 95, 101, 103	0
8	S6	226/226 (100%)	0.92	43 (19%) 1 1	62, 76, 96, 101	0
8	s6	218/226 (96%)	1.04	41 (18%) 1 1	55, 63, 82, 86	0
9	S7	184/186 (98%)	0.50	14 (7%) 13 14	92, 102, 108, 109	0
9	s7	186/186 (100%)	0.08	7 (3%) 40 36	75, 90, 101, 104	0
10	S8	188/199 (94%)	1.15	36 (19%) 1 1	72, 78, 92, 95	0
10	s8	188/199 (94%)	0.77	19 (10%) 7 7	57, 68, 89, 95	0
11	S9	185/185 (100%)	1.09	35 (18%) 1 1	81, 89, 99, 103	0
11	s9	185/185 (100%)	0.13	3 (1%) 72 66	63, 74, 82, 84	0
12	C0	96/105 (91%)	0.58	9 (9%) 8 9	94, 101, 110, 115	0
12	c0	96/105 (91%)	1.26	25 (26%) 0 0	105, 116, 122, 123	0
13	C1	155/156 (99%)	1.54	42 (27%) 0 0	75, 79, 87, 90	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	c1	146/156 (93%)	0.53	9 (6%) 20 18	62, 67, 81, 92	0
14	C2	124/143 (86%)	1.54	43 (34%) 0 0	111, 116, 119, 122	0
14	c2	124/143 (86%)	1.60	34 (27%) 0 0	133, 142, 148, 154	0
15	C3	150/150 (100%)	0.41	9 (6%) 21 19	80, 88, 92, 94	0
15	c3	150/150 (100%)	0.01	2 (1%) 77 71	65, 75, 80, 82	0
16	C4	127/128 (99%)	0.36	11 (8%) 10 11	82, 105, 111, 112	0
16	c4	128/128 (100%)	0.93	17 (13%) 3 4	63, 74, 79, 80	0
17	C5	124/142 (87%)	0.52	9 (7%) 15 15	80, 90, 96, 101	0
17	c5	135/142 (95%)	0.35	10 (7%) 14 14	50, 91, 98, 100	0
18	C6	141/142 (99%)	2.22	68 (48%) 0 0	88, 105, 109, 110	0
18	c6	142/142 (100%)	1.47	42 (29%) 0 0	90, 98, 102, 104	0
19	C7	120/125 (96%)	1.53	41 (34%) 0 0	98, 104, 108, 109	0
19	c7	117/125 (93%)	0.83	17 (14%) 2 3	86, 94, 99, 100	0
20	C8	145/145 (100%)	0.60	9 (6%) 20 18	83, 95, 107, 110	0
20	c8	145/145 (100%)	0.41	10 (6%) 16 16	69, 86, 93, 97	0
21	C9	143/143 (100%)	1.26	31 (21%) 0 0	92, 101, 106, 108	0
21	c9	143/143 (100%)	0.47	12 (8%) 11 11	87, 92, 96, 98	0
22	D0	107/110 (97%)	1.14	26 (24%) 0 0	87, 100, 105, 106	0
22	d0	110/110 (100%)	2.07	51 (46%) 0 0	92, 104, 110, 111	0
23	D1	87/87 (100%)	0.93	16 (18%) 1 1	90, 94, 102, 106	0
23	d1	87/87 (100%)	0.65	5 (5%) 23 21	74, 78, 86, 89	0
24	D2	129/129 (100%)	1.27	29 (22%) 0 0	82, 88, 92, 98	0
24	d2	129/129 (100%)	0.26	0 100 100	67, 73, 75, 76	0
25	D3	144/144 (100%)	0.33	7 (4%) 29 26	71, 76, 79, 80	0
25	d3	144/144 (100%)	0.10	3 (2%) 63 58	57, 59, 64, 66	0
26	D4	134/134 (100%)	0.28	3 (2%) 62 56	76, 88, 92, 94	0
26	d4	134/134 (100%)	0.13	6 (4%) 33 29	60, 71, 74, 76	0
27	D5	70/70 (100%)	0.62	7 (10%) 7 8	104, 108, 111, 112	0
27	d5	69/70 (98%)	0.41	5 (7%) 15 15	93, 97, 100, 101	0
28	D6	97/97 (100%)	1.99	42 (43%) 0 0	84, 91, 112, 113	0
28	d6	97/97 (100%)	1.98	51 (52%) 0 0	65, 72, 81, 83	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
29	D7	81/81 (100%)	1.08	13 (16%) 1 2	90, 94, 99, 100	0
29	d7	81/81 (100%)	0.64	4 (4%) 29 26	74, 80, 88, 89	0
30	D8	63/63 (100%)	2.18	32 (50%) 0 0	98, 107, 112, 113	0
30	d8	63/63 (100%)	2.42	40 (63%) 0 0	90, 95, 99, 100	0
31	D9	53/53 (100%)	0.46	2 (3%) 40 36	89, 91, 96, 97	0
31	d9	53/53 (100%)	1.26	13 (24%) 0 0	93, 97, 113, 120	0
32	E0	60/62 (96%)	0.93	9 (15%) 2 3	72, 87, 97, 101	0
32	e0	62/62 (100%)	0.30	6 (9%) 7 8	58, 72, 77, 80	0
33	E1	71/76 (93%)	0.57	8 (11%) 5 6	92, 108, 113, 113	0
33	e1	76/76 (100%)	0.91	15 (19%) 1 1	99, 127, 139, 140	0
34	SR	318/318 (100%)	1.37	84 (26%) 0 0	104, 111, 118, 122	0
35	SM	133/299 (44%)	1.23	28 (21%) 1 1	55, 83, 97, 98	0
36	1	3149/3149 (100%)	0.17	64 (2%) 65 60	31, 49, 82, 154	0
37	3	121/121 (100%)	-0.14	4 (3%) 46 41	41, 59, 64, 65	0
37	7	121/121 (100%)	-0.22	1 (0%) 86 81	36, 47, 51, 54	0
38	4	158/158 (100%)	0.01	1 (0%) 89 86	33, 45, 63, 84	0
38	8	158/158 (100%)	0.05	2 (1%) 77 71	36, 49, 68, 76	0
39	L2	252/252 (100%)	0.32	7 (2%) 53 47	40, 52, 61, 73	0
39	l2	252/252 (100%)	0.18	5 (1%) 65 60	39, 53, 62, 66	0
40	L3	386/386 (100%)	-0.20	2 (0%) 91 88	38, 50, 58, 62	0
40	l3	386/386 (100%)	-0.30	2 (0%) 91 88	32, 39, 47, 58	0
41	L4	361/361 (100%)	-0.28	0 100 100	31, 37, 47, 51	0
41	l4	361/361 (100%)	-0.22	1 (0%) 94 91	33, 41, 48, 58	0
42	L5	296/296 (100%)	0.61	36 (12%) 4 5	50, 60, 67, 69	0
42	l5	294/296 (99%)	0.02	4 (1%) 75 69	43, 49, 57, 66	0
43	L6	156/175 (89%)	-0.36	0 100 100	38, 46, 49, 55	0
43	l6	157/175 (89%)	-0.29	3 (1%) 66 61	40, 46, 49, 52	0
44	L7	222/223 (99%)	-0.09	0 100 100	36, 40, 48, 50	0
44	l7	223/223 (100%)	-0.28	0 100 100	34, 38, 48, 54	0
45	L8	233/233 (100%)	0.28	5 (2%) 63 58	54, 60, 74, 77	0
46	L9	191/191 (100%)	0.38	13 (6%) 17 16	48, 51, 53, 59	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
46	l9	191/191 (100%)	0.22	4 (2%) 63 58	39, 44, 52, 63	0
47	M0	211/220 (95%)	-0.05	1 (0%) 91 88	39, 48, 61, 66	0
47	m0	213/220 (96%)	0.18	8 (3%) 40 36	36, 42, 57, 67	0
48	M1	169/169 (100%)	0.81	18 (10%) 6 6	57, 67, 73, 76	0
48	m1	169/169 (100%)	-0.27	0 100 100	44, 54, 59, 63	0
49	M3	193/194 (99%)	0.03	2 (1%) 82 77	33, 46, 59, 74	0
49	m3	194/194 (100%)	-0.05	5 (2%) 56 49	35, 50, 61, 70	0
50	M4	136/137 (99%)	-0.18	3 (2%) 62 56	45, 49, 54, 56	0
50	m4	137/137 (100%)	-0.34	1 (0%) 87 83	39, 43, 52, 60	0
51	M5	203/203 (100%)	0.14	0 100 100	35, 46, 54, 56	0
51	m5	203/203 (100%)	0.04	1 (0%) 91 88	38, 50, 57, 59	0
52	M6	197/197 (100%)	-0.08	2 (1%) 82 77	39, 42, 50, 52	0
52	m6	197/197 (100%)	-0.29	0 100 100	32, 36, 49, 50	0
53	M7	183/183 (100%)	0.10	10 (5%) 25 22	38, 43, 58, 62	0
53	m7	155/183 (84%)	-0.30	0 100 100	34, 37, 40, 43	0
54	M8	185/185 (100%)	0.08	0 100 100	36, 44, 54, 61	0
54	m8	185/185 (100%)	0.06	0 100 100	35, 44, 48, 50	0
55	M9	188/188 (100%)	0.20	7 (3%) 41 37	49, 61, 103, 111	0
55	m9	188/188 (100%)	-0.01	1 (0%) 91 88	43, 55, 98, 106	0
56	N0	172/172 (100%)	0.73	21 (12%) 4 5	42, 46, 51, 53	0
56	n0	172/172 (100%)	-0.10	1 (0%) 89 86	36, 39, 44, 48	0
57	N1	159/159 (100%)	0.47	6 (3%) 40 36	40, 47, 56, 57	0
57	n1	159/159 (100%)	0.44	8 (5%) 28 25	36, 42, 53, 55	0
58	N2	100/100 (100%)	0.34	5 (5%) 28 25	65, 69, 72, 73	0
58	n2	98/100 (98%)	0.14	4 (4%) 37 33	56, 59, 60, 61	0
59	N3	136/136 (100%)	0.07	3 (2%) 62 56	43, 49, 52, 54	0
59	n3	136/136 (100%)	0.05	0 100 100	33, 37, 41, 43	0
60	N4	98/98 (100%)	2.05	30 (30%) 0 0	49, 59, 89, 91	0
61	N5	121/121 (100%)	0.22	2 (1%) 70 64	43, 45, 62, 72	0
61	n5	120/121 (99%)	0.12	1 (0%) 86 81	44, 48, 65, 67	0
62	N6	126/126 (100%)	0.00	1 (0%) 86 81	35, 41, 44, 45	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
62	n6	126/126 (100%)	-0.14	0 100 100	38, 45, 49, 50	0
63	N7	135/135 (100%)	0.53	7 (5%) 27 24	62, 67, 76, 79	0
63	n7	135/135 (100%)	0.46	7 (5%) 27 24	65, 71, 78, 83	0
64	N8	148/148 (100%)	0.02	0 100 100	31, 43, 50, 57	0
64	n8	148/148 (100%)	0.04	1 (0%) 87 83	31, 45, 48, 50	0
65	N9	58/58 (100%)	0.28	0 100 100	36, 49, 66, 71	0
65	n9	58/58 (100%)	0.30	3 (5%) 27 24	34, 45, 52, 53	0
66	O0	97/100 (97%)	0.15	3 (3%) 49 43	60, 64, 70, 71	0
66	o0	100/100 (100%)	0.46	5 (5%) 28 25	61, 66, 73, 75	0
67	O1	109/109 (100%)	0.28	3 (2%) 53 47	51, 55, 59, 67	0
67	o1	109/109 (100%)	0.17	2 (1%) 68 62	41, 43, 47, 49	0
68	O2	127/127 (100%)	-0.20	0 100 100	32, 39, 41, 43	0
68	o2	127/127 (100%)	-0.19	0 100 100	31, 40, 43, 44	0
69	O3	106/106 (100%)	-0.19	0 100 100	37, 42, 50, 52	0
69	o3	106/106 (100%)	-0.10	0 100 100	34, 40, 50, 51	0
70	O4	112/112 (100%)	0.53	4 (3%) 42 38	47, 60, 70, 73	0
70	o4	112/112 (100%)	0.56	4 (3%) 42 38	46, 62, 70, 72	0
71	O5	119/119 (100%)	0.02	1 (0%) 86 81	42, 44, 56, 58	0
71	o5	119/119 (100%)	-0.16	1 (0%) 86 81	46, 48, 60, 64	0
72	O6	99/99 (100%)	-0.15	2 (2%) 65 60	44, 54, 62, 66	0
72	o6	99/99 (100%)	-0.28	0 100 100	48, 57, 62, 66	0
73	O7	87/87 (100%)	0.13	1 (1%) 80 75	35, 41, 46, 49	0
73	o7	87/87 (100%)	0.25	3 (3%) 45 40	37, 42, 51, 58	0
74	O8	77/77 (100%)	-0.41	1 (1%) 77 71	57, 60, 66, 66	0
74	o8	77/77 (100%)	0.55	3 (3%) 39 35	59, 63, 66, 68	0
75	O9	50/50 (100%)	0.09	0 100 100	40, 42, 44, 45	0
75	o9	50/50 (100%)	0.24	0 100 100	40, 44, 46, 49	0
76	Q0	52/52 (100%)	-0.03	1 (1%) 66 61	46, 49, 50, 52	0
76	q0	52/52 (100%)	-0.26	0 100 100	38, 39, 43, 45	0
77	Q1	25/25 (100%)	-0.10	0 100 100	60, 70, 78, 78	0
77	q1	25/25 (100%)	-0.32	0 100 100	49, 56, 59, 60	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
78	Q2	105/105 (100%)	0.75	11 (10%) 6 7	38, 49, 58, 66	0
78	q2	105/105 (100%)	0.76	9 (8%) 10 11	37, 44, 49, 57	0
79	Q3	91/91 (100%)	0.35	5 (5%) 25 22	49, 53, 57, 58	0
79	q3	91/91 (100%)	0.19	3 (3%) 46 41	45, 53, 60, 64	0
80	6	1795/1800 (99%)	0.47	132 (7%) 14 14	46, 75, 111, 134	0
81	sR	318/318 (100%)	1.45	94 (29%) 0 0	90, 107, 111, 114	0
82	sM	104/273 (38%)	0.67	15 (14%) 2 3	45, 89, 142, 143	0
83	5	3150/3150 (100%)	0.17	54 (1%) 70 64	31, 45, 82, 107	0
84	l8	231/256 (90%)	0.22	11 (4%) 30 27	58, 64, 78, 81	0
85	m2	150/165 (90%)	1.03	29 (19%) 1 1	65, 93, 100, 101	0
86	n4	135/135 (100%)	1.01	33 (24%) 0 0	37, 62, 81, 82	0
87	p0	143/312 (45%)	1.34	31 (21%) 0 0	78, 91, 138, 143	0
88	p1	47/128 (36%)	2.03	17 (36%) 0 0	114, 142, 154, 156	0
88	p2	46/128 (35%)	1.95	19 (41%) 0 0	168, 176, 181, 181	0
89	P	2/4 (50%)	-0.02	0 100 100	38, 38, 38, 40	0
89	p	2/4 (50%)	0.86	0 100 100	34, 34, 34, 38	0
All	All	33315/34306 (97%)	0.42	2597 (7%) 13 13	31, 60, 108, 181	0

The worst 5 of 2597 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
14	c2	20	ALA	14.0
60	N4	88	ASP	13.2
60	N4	75	THR	11.3
1	2	1805	C	11.3
1	2	1807	C	11.1

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
91	MG	6	2136	1/1	-0.06	0.46	75,75,75,75	0
91	MG	6	2166	1/1	0.14	0.52	114,114,114,114	0
91	MG	6	2152	1/1	0.19	1.16	62,62,62,62	0
91	MG	2	2117	1/1	0.20	0.59	94,94,94,94	0
91	MG	1	4043	1/1	0.22	0.35	52,52,52,52	0
91	MG	1	3847	1/1	0.22	1.15	36,36,36,36	0
91	MG	2	2094	1/1	0.23	0.73	81,81,81,81	0
91	MG	6	2073	1/1	0.31	0.47	91,91,91,91	0
91	MG	2	2059	1/1	0.32	0.33	86,86,86,86	0
91	MG	2	2139	1/1	0.38	0.34	93,93,93,93	0
91	MG	2	2108	1/1	0.42	0.40	92,92,92,92	0
91	MG	s6	301	1/1	0.45	1.02	67,67,67,67	0
91	MG	5	3807	1/1	0.45	0.24	88,88,88,88	0
91	MG	6	2086	1/1	0.46	0.28	75,75,75,75	0
91	MG	6	2111	1/1	0.46	0.48	69,69,69,69	0
91	MG	6	2133	1/1	0.46	0.45	94,94,94,94	0
91	MG	c8	203	1/1	0.46	0.39	84,84,84,84	0
91	MG	1	3938	1/1	0.46	0.32	54,54,54,54	0
91	MG	1	3764	1/1	0.47	0.80	42,42,42,42	0
91	MG	C1	201	1/1	0.48	0.67	76,76,76,76	0
91	MG	6	2182	1/1	0.49	0.32	66,66,66,66	0
91	MG	d7	102	1/1	0.49	0.44	74,74,74,74	0
91	MG	1	4063	1/1	0.49	0.52	43,43,43,43	0
91	MG	6	2114	1/1	0.52	0.51	89,89,89,89	0
91	MG	1	4031	1/1	0.53	0.61	34,34,34,34	0
91	MG	5	4084	1/1	0.53	0.48	34,34,34,34	0
91	MG	2	2141	1/1	0.55	0.62	79,79,79,79	0
91	MG	1	3782	1/1	0.56	0.54	41,41,41,41	0
91	MG	o9	101	1/1	0.56	0.60	41,41,41,41	0
91	MG	6	2147	1/1	0.57	0.52	66,66,66,66	0
91	MG	5	4147	1/1	0.57	0.36	41,41,41,41	0
91	MG	1	4117	1/1	0.57	0.34	43,43,43,43	0
91	MG	6	2140	1/1	0.58	0.12	71,71,71,71	0
91	MG	1	3964	1/1	0.59	0.63	51,51,51,51	0
91	MG	1	3914	1/1	0.60	0.95	50,50,50,50	0
91	MG	5	3948	1/1	0.60	0.42	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	1	3773	1/1	0.60	0.67	51,51,51,51	0
91	MG	6	2082	1/1	0.60	0.37	87,87,87,87	0
91	MG	n6	201	1/1	0.60	0.50	46,46,46,46	0
91	MG	6	2178	1/1	0.60	0.34	67,67,67,67	0
91	MG	5	4062	1/1	0.62	0.43	59,59,59,59	0
91	MG	4	236	1/1	0.62	0.25	43,43,43,43	0
91	MG	5	4122	1/1	0.62	0.47	37,37,37,37	0
91	MG	6	2180	1/1	0.62	0.92	98,98,98,98	0
91	MG	7	225	1/1	0.62	1.62	44,44,44,44	0
91	MG	6	2091	1/1	0.62	0.74	66,66,66,66	0
91	MG	6	2169	1/1	0.62	0.34	97,97,97,97	0
93	PHE	5	3401	11/12	0.62	0.53	31,31,41,41	0
91	MG	1	4053	1/1	0.63	0.43	34,34,34,34	0
91	MG	5	4175	1/1	0.63	0.28	39,39,39,39	0
91	MG	S4	301	1/1	0.63	0.63	83,83,83,83	0
91	MG	1	3743	1/1	0.64	0.46	52,52,52,52	0
91	MG	6	2125	1/1	0.64	0.98	57,57,57,57	0
91	MG	5	3988	1/1	0.64	0.79	35,35,35,35	0
91	MG	6	2092	1/1	0.64	0.20	88,88,88,88	0
91	MG	6	2093	1/1	0.64	0.41	90,90,90,90	0
92	ZN	D7	101	1/1	0.64	0.29	100,100,100,100	0
91	MG	1	3952	1/1	0.64	0.29	48,48,48,48	0
91	MG	5	3969	1/1	0.65	0.70	73,73,73,73	0
91	MG	M7	202	1/1	0.65	0.81	52,52,52,52	0
91	MG	1	4077	1/1	0.65	0.48	40,40,40,40	0
91	MG	5	3809	1/1	0.65	0.56	39,39,39,39	0
91	MG	5	3838	1/1	0.65	0.54	45,45,45,45	0
91	MG	6	2167	1/1	0.65	1.09	55,55,55,55	0
91	MG	5	4139	1/1	0.66	0.25	60,60,60,60	0
91	MG	1	4093	1/1	0.66	0.69	55,55,55,55	0
91	MG	1	3831	1/1	0.66	0.42	31,31,31,31	0
91	MG	6	2120	1/1	0.66	0.48	102,102,102,102	0
91	MG	5	3806	1/1	0.67	0.26	50,50,50,50	0
91	MG	1	3808	1/1	0.67	0.30	37,37,37,37	0
91	MG	2	2113	1/1	0.67	0.31	101,101,101,101	0
91	MG	1	3955	1/1	0.68	0.29	50,50,50,50	0
91	MG	6	2130	1/1	0.68	0.46	67,67,67,67	0
91	MG	2	2100	1/1	0.68	0.39	102,102,102,102	0
91	MG	5	4132	1/1	0.68	0.40	50,50,50,50	0
91	MG	d4	202	1/1	0.68	0.27	65,65,65,65	0
91	MG	5	4010	1/1	0.68	0.13	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	6	2076	1/1	0.69	0.36	70,70,70,70	0
91	MG	6	2129	1/1	0.69	0.64	61,61,61,61	0
91	MG	6	2080	1/1	0.69	0.68	63,63,63,63	0
91	MG	1	3946	1/1	0.69	0.59	98,98,98,98	0
91	MG	O7	105	1/1	0.69	0.55	42,42,42,42	0
91	MG	1	3735	1/1	0.69	0.49	125,125,125,125	0
91	MG	5	3971	1/1	0.69	0.22	84,84,84,84	0
91	MG	5	3763	1/1	0.70	0.47	34,34,34,34	0
91	MG	1	4042	1/1	0.70	0.51	43,43,43,43	0
91	MG	2	2075	1/1	0.70	0.24	96,96,96,96	0
91	MG	1	3984	1/1	0.70	0.88	42,42,42,42	0
91	MG	5	3831	1/1	0.70	0.60	44,44,44,44	0
91	MG	m6	204	1/1	0.70	0.38	34,34,34,34	0
91	MG	2	2076	1/1	0.70	0.53	86,86,86,86	0
91	MG	5	4097	1/1	0.70	0.70	52,52,52,52	0
91	MG	5	4107	1/1	0.70	0.81	42,42,42,42	0
91	MG	1	4075	1/1	0.70	0.30	59,59,59,59	0
91	MG	5	3754	1/1	0.71	0.60	45,45,45,45	0
91	MG	1	3944	1/1	0.71	0.59	45,45,45,45	0
91	MG	5	4086	1/1	0.71	0.41	41,41,41,41	0
91	MG	2	2098	1/1	0.71	0.22	87,87,87,87	0
91	MG	D9	103	1/1	0.71	0.33	92,92,92,92	0
91	MG	1	3817	1/1	0.71	0.42	51,51,51,51	0
91	MG	2	2092	1/1	0.71	0.41	80,80,80,80	0
91	MG	2	2101	1/1	0.71	0.47	79,79,79,79	0
91	MG	5	3891	1/1	0.71	0.34	43,43,43,43	0
91	MG	1	4000	1/1	0.71	0.41	61,61,61,61	0
91	MG	2	2106	1/1	0.71	0.24	96,96,96,96	0
91	MG	2	2084	1/1	0.71	0.66	88,88,88,88	0
91	MG	6	2145	1/1	0.71	0.14	89,89,89,89	0
91	MG	6	2098	1/1	0.71	0.86	99,99,99,99	0
91	MG	5	4019	1/1	0.71	0.55	50,50,50,50	0
91	MG	5	4055	1/1	0.71	0.23	48,48,48,48	0
91	MG	2	2118	1/1	0.72	0.42	92,92,92,92	0
91	MG	6	2153	1/1	0.72	0.36	86,86,86,86	0
91	MG	5	4034	1/1	0.72	0.23	89,89,89,89	0
91	MG	5	4039	1/1	0.72	0.37	43,43,43,43	0
91	MG	5	4168	1/1	0.72	0.62	41,41,41,41	0
91	MG	2	2110	1/1	0.72	0.49	76,76,76,76	0
91	MG	5	3946	1/1	0.73	0.33	61,61,61,61	0
91	MG	5	3813	1/1	0.73	0.34	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	2	2062	1/1	0.73	0.28	98,98,98,98	0
91	MG	5	4115	1/1	0.73	0.26	63,63,63,63	0
91	MG	5	4048	1/1	0.73	0.44	57,57,57,57	0
91	MG	2	2089	1/1	0.73	0.41	85,85,85,85	0
91	MG	1	4062	1/1	0.73	0.33	105,105,105,105	0
91	MG	5	3943	1/1	0.73	0.47	44,44,44,44	0
91	MG	6	2141	1/1	0.74	0.54	95,95,95,95	0
91	MG	d3	201	1/1	0.74	0.56	55,55,55,55	0
91	MG	5	4172	1/1	0.74	0.17	81,81,81,81	0
91	MG	1	4109	1/1	0.74	0.36	43,43,43,43	0
91	MG	5	4112	1/1	0.74	0.74	62,62,62,62	0
91	MG	L4	404	1/1	0.74	0.41	31,31,31,31	0
91	MG	sM	301	1/1	0.74	0.27	45,45,45,45	0
91	MG	o2	201	1/1	0.74	0.46	32,32,32,32	0
91	MG	5	4126	1/1	0.74	0.63	57,57,57,57	0
91	MG	6	2183	1/1	0.74	0.49	72,72,72,72	0
91	MG	6	2062	1/1	0.74	0.77	61,61,61,61	0
91	MG	5	4021	1/1	0.75	0.73	33,33,33,33	0
91	MG	6	2156	1/1	0.75	0.48	68,68,68,68	0
91	MG	6	2106	1/1	0.75	0.57	60,60,60,60	0
91	MG	1	3989	1/1	0.75	0.48	40,40,40,40	0
91	MG	5	3833	1/1	0.75	0.34	40,40,40,40	0
91	MG	5	3985	1/1	0.75	0.68	42,42,42,42	0
91	MG	1	3937	1/1	0.75	0.20	57,57,57,57	0
91	MG	1	4024	1/1	0.75	0.50	49,49,49,49	0
91	MG	1	3960	1/1	0.75	0.40	40,40,40,40	0
91	MG	5	4104	1/1	0.76	0.09	93,93,93,93	0
91	MG	1	3751	1/1	0.76	0.36	38,38,38,38	0
91	MG	6	2105	1/1	0.76	0.62	65,65,65,65	0
91	MG	2	2114	1/1	0.76	0.77	77,77,77,77	0
91	MG	2	2131	1/1	0.76	0.31	80,80,80,80	0
91	MG	2	2078	1/1	0.76	0.51	92,92,92,92	0
91	MG	5	3778	1/1	0.76	0.30	57,57,57,57	0
91	MG	1	3873	1/1	0.76	0.44	33,33,33,33	0
91	MG	1	3785	1/1	0.76	0.56	51,51,51,51	0
92	ZN	e1	501	1/1	0.76	0.07	130,130,130,130	0
91	MG	5	4154	1/1	0.76	0.34	50,50,50,50	0
91	MG	1	4008	1/1	0.77	0.49	34,34,34,34	0
91	MG	5	4037	1/1	0.77	0.43	39,39,39,39	0
91	MG	2	2132	1/1	0.77	0.45	76,76,76,76	0
91	MG	1	3963	1/1	0.77	1.14	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	6	2102	1/1	0.77	0.53	96,96,96,96	0
91	MG	5	3762	1/1	0.77	0.22	50,50,50,50	0
91	MG	5	4065	1/1	0.77	0.58	37,37,37,37	0
91	MG	6	2137	1/1	0.77	0.47	85,85,85,85	0
91	MG	1	4079	1/1	0.77	0.44	54,54,54,54	0
91	MG	5	4096	1/1	0.77	0.39	45,45,45,45	0
91	MG	1	3931	1/1	0.77	0.30	37,37,37,37	0
91	MG	1	3951	1/1	0.77	0.29	32,32,32,32	0
91	MG	1	4052	1/1	0.77	0.43	59,59,59,59	0
91	MG	1	3854	1/1	0.77	0.81	56,56,56,56	0
91	MG	5	3815	1/1	0.77	0.34	46,46,46,46	0
91	MG	2	2068	1/1	0.77	0.86	75,75,75,75	0
91	MG	5	3751	1/1	0.78	0.34	45,45,45,45	0
91	MG	1	3732	1/1	0.78	0.90	48,48,48,48	0
91	MG	2	2056	1/1	0.78	0.31	74,74,74,74	0
91	MG	2	2064	1/1	0.78	0.40	85,85,85,85	0
91	MG	6	2175	1/1	0.78	0.38	64,64,64,64	0
91	MG	1	4004	1/1	0.78	0.33	40,40,40,40	0
91	MG	N0	202	1/1	0.78	0.39	44,44,44,44	0
91	MG	2	2061	1/1	0.78	0.53	83,83,83,83	0
91	MG	1	3825	1/1	0.78	0.36	49,49,49,49	0
91	MG	6	2067	1/1	0.78	0.42	57,57,57,57	0
91	MG	5	3819	1/1	0.78	0.27	41,41,41,41	0
91	MG	c6	201	1/1	0.78	0.43	90,90,90,90	0
91	MG	C9	201	1/1	0.78	0.49	96,96,96,96	0
91	MG	2	2070	1/1	0.78	0.75	71,71,71,71	0
91	MG	l6	201	1/1	0.78	0.46	44,44,44,44	0
91	MG	l9	202	1/1	0.78	0.33	41,41,41,41	0
91	MG	m5	304	1/1	0.78	0.40	47,47,47,47	0
91	MG	5	3874	1/1	0.78	0.63	35,35,35,35	0
91	MG	5	4066	1/1	0.78	0.30	42,42,42,42	0
91	MG	1	4102	1/1	0.78	0.39	39,39,39,39	0
91	MG	5	3895	1/1	0.78	0.43	48,48,48,48	0
91	MG	1	3976	1/1	0.78	0.53	36,36,36,36	0
91	MG	6	2159	1/1	0.78	0.20	88,88,88,88	0
91	MG	5	4102	1/1	0.78	0.64	43,43,43,43	0
91	MG	5	4153	1/1	0.79	0.43	52,52,52,52	0
91	MG	5	3998	1/1	0.79	0.35	39,39,39,39	0
91	MG	5	4007	1/1	0.79	0.63	48,48,48,48	0
91	MG	5	4171	1/1	0.79	0.51	31,31,31,31	0
91	MG	5	4092	1/1	0.79	0.36	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	3860	1/1	0.79	0.56	32,32,32,32	0
91	MG	1	3932	1/1	0.79	0.49	37,37,37,37	0
91	MG	5	4020	1/1	0.79	0.30	65,65,65,65	0
91	MG	2	2112	1/1	0.79	0.63	83,83,83,83	0
91	MG	2	2072	1/1	0.79	0.33	83,83,83,83	0
91	MG	1	3953	1/1	0.79	0.31	55,55,55,55	0
91	MG	1	4096	1/1	0.79	0.27	49,49,49,49	0
91	MG	1	4012	1/1	0.79	0.46	50,50,50,50	0
91	MG	6	2064	1/1	0.79	0.48	68,68,68,68	0
91	MG	1	3826	1/1	0.79	0.39	33,33,33,33	0
91	MG	6	2154	1/1	0.79	0.33	94,94,94,94	0
91	MG	1	4025	1/1	0.79	0.40	49,49,49,49	0
94	LEU	5	3402	8/9	0.79	0.35	36,36,36,36	0
91	MG	6	2115	1/1	0.80	0.41	69,69,69,69	0
91	MG	4	232	1/1	0.80	0.29	72,72,72,72	0
91	MG	1	3979	1/1	0.80	0.38	48,48,48,48	0
91	MG	6	2071	1/1	0.80	0.64	63,63,63,63	0
91	MG	7	212	1/1	0.80	0.53	46,46,46,46	0
91	MG	5	3789	1/1	0.80	0.57	36,36,36,36	0
91	MG	l3	404	1/1	0.80	0.34	32,32,32,32	0
91	MG	l5	303	1/1	0.80	0.09	50,50,50,50	0
91	MG	5	3792	1/1	0.80	0.54	39,39,39,39	0
91	MG	5	3900	1/1	0.80	0.24	49,49,49,49	0
91	MG	5	3805	1/1	0.80	0.40	36,36,36,36	0
91	MG	1	3981	1/1	0.80	0.27	58,58,58,58	0
91	MG	1	3809	1/1	0.80	0.48	49,49,49,49	0
91	MG	5	4128	1/1	0.80	0.36	33,33,33,33	0
91	MG	2	2138	1/1	0.80	0.80	87,87,87,87	0
91	MG	1	3818	1/1	0.80	0.29	62,62,62,62	0
91	MG	6	2108	1/1	0.80	0.45	63,63,63,63	0
91	MG	6	2085	1/1	0.80	0.56	58,58,58,58	0
91	MG	4	227	1/1	0.80	0.49	47,47,47,47	0
91	MG	1	4098	1/1	0.81	0.57	58,58,58,58	0
91	MG	1	3912	1/1	0.81	0.51	43,43,43,43	0
91	MG	1	3756	1/1	0.81	0.44	43,43,43,43	0
91	MG	5	4059	1/1	0.81	0.67	33,33,33,33	0
91	MG	6	2079	1/1	0.81	0.48	72,72,72,72	0
91	MG	2	2125	1/1	0.81	0.54	78,78,78,78	0
91	MG	1	3868	1/1	0.81	0.38	41,41,41,41	0
91	MG	6	2128	1/1	0.81	0.40	88,88,88,88	0
91	MG	1	3869	1/1	0.81	0.45	49,49,49,49	0
91	MG	2	2095	1/1	0.81	0.41	80,80,80,80	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	6	2088	1/1	0.81	0.37	65,65,65,65	0
91	MG	1	4014	1/1	0.81	0.37	36,36,36,36	0
91	MG	1	4076	1/1	0.81	0.56	51,51,51,51	0
91	MG	5	4004	1/1	0.81	0.72	29,29,29,29	0
91	MG	1	3887	1/1	0.81	0.42	35,35,35,35	0
91	MG	1	3899	1/1	0.81	0.37	33,33,33,33	0
91	MG	5	4017	1/1	0.81	0.26	42,42,42,42	0
91	MG	1	4086	1/1	0.81	0.36	41,41,41,41	0
91	MG	1	4026	1/1	0.81	0.71	39,39,39,39	0
91	MG	1	3904	1/1	0.81	0.64	38,38,38,38	0
91	MG	6	2107	1/1	0.81	0.47	63,63,63,63	0
91	MG	5	3866	1/1	0.81	0.44	33,33,33,33	0
91	MG	6	2138	1/1	0.82	0.17	82,82,82,82	0
91	MG	6	2094	1/1	0.82	0.24	77,77,77,77	0
91	MG	1	3845	1/1	0.82	0.61	38,38,38,38	0
91	MG	6	2124	1/1	0.82	0.28	89,89,89,89	0
91	MG	5	3945	1/1	0.82	0.67	32,32,32,32	0
91	MG	7	223	1/1	0.82	0.27	36,36,36,36	0
91	MG	5	4031	1/1	0.82	0.53	54,54,54,54	0
91	MG	8	221	1/1	0.82	0.73	46,46,46,46	0
91	MG	8	224	1/1	0.82	0.27	53,53,53,53	0
91	MG	1	3803	1/1	0.82	0.49	46,46,46,46	0
91	MG	1	3776	1/1	0.82	0.53	47,47,47,47	0
91	MG	4	237	1/1	0.82	0.38	31,31,31,31	0
91	MG	5	4117	1/1	0.82	0.31	43,43,43,43	0
91	MG	5	3770	1/1	0.82	0.33	41,41,41,41	0
91	MG	C8	201	1/1	0.82	0.08	94,94,94,94	0
91	MG	5	4056	1/1	0.82	0.22	40,40,40,40	0
91	MG	5	3986	1/1	0.82	0.41	60,60,60,60	0
91	MG	2	2128	1/1	0.82	0.36	89,89,89,89	0
91	MG	1	4118	1/1	0.82	0.20	44,44,44,44	0
91	MG	5	3867	1/1	0.82	0.29	40,40,40,40	0
91	MG	N6	201	1/1	0.82	0.42	40,40,40,40	0
91	MG	5	4162	1/1	0.82	0.61	49,49,49,49	0
91	MG	1	3804	1/1	0.83	0.16	58,58,58,58	0
91	MG	4	224	1/1	0.83	0.50	48,48,48,48	0
91	MG	1	3999	1/1	0.83	0.49	43,43,43,43	0
91	MG	5	4000	1/1	0.83	0.44	40,40,40,40	0
91	MG	2	2135	1/1	0.83	0.59	68,68,68,68	0
91	MG	1	3783	1/1	0.83	0.73	39,39,39,39	0
91	MG	5	3752	1/1	0.83	0.30	32,32,32,32	0
91	MG	5	4082	1/1	0.83	0.58	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	3917	1/1	0.83	0.61	32,32,32,32	0
91	MG	5	4151	1/1	0.83	0.30	46,46,46,46	0
91	MG	2	2081	1/1	0.83	0.44	87,87,87,87	0
91	MG	6	2087	1/1	0.83	0.33	66,66,66,66	0
91	MG	5	4159	1/1	0.83	0.37	45,45,45,45	0
91	MG	6	2070	1/1	0.83	0.28	94,94,94,94	0
91	MG	6	2155	1/1	0.83	0.23	76,76,76,76	0
92	ZN	d7	101	1/1	0.83	0.24	89,89,89,89	0
91	MG	1	3793	1/1	0.83	0.46	39,39,39,39	0
91	MG	5	3856	1/1	0.83	0.49	42,42,42,42	0
91	MG	1	3759	1/1	0.83	0.63	45,45,45,45	0
91	MG	6	2078	1/1	0.84	0.25	58,58,58,58	0
91	MG	2	2086	1/1	0.84	0.33	71,71,71,71	0
91	MG	1	4060	1/1	0.84	0.30	37,37,37,37	0
91	MG	5	4131	1/1	0.84	0.49	35,35,35,35	0
91	MG	1	4061	1/1	0.84	0.35	32,32,32,32	0
91	MG	1	3954	1/1	0.84	0.22	57,57,57,57	0
91	MG	1	3747	1/1	0.84	0.96	49,49,49,49	0
91	MG	1	4006	1/1	0.84	0.52	61,61,61,61	0
91	MG	2	2057	1/1	0.84	0.46	73,73,73,73	0
91	MG	2	2103	1/1	0.84	0.55	74,74,74,74	0
91	MG	6	2139	1/1	0.84	0.60	57,57,57,57	0
91	MG	2	2104	1/1	0.84	0.54	97,97,97,97	0
91	MG	1	3967	1/1	0.84	0.51	51,51,51,51	0
91	MG	O4	202	1/1	0.84	0.19	61,61,61,61	0
91	MG	5	3885	1/1	0.84	0.32	34,34,34,34	0
91	MG	5	3890	1/1	0.84	0.34	40,40,40,40	0
91	MG	1	3880	1/1	0.84	0.69	41,41,41,41	0
91	MG	1	3802	1/1	0.84	0.39	36,36,36,36	0
91	MG	5	3898	1/1	0.84	0.54	39,39,39,39	0
91	MG	2	2124	1/1	0.84	0.20	87,87,87,87	0
91	MG	6	2066	1/1	0.84	0.13	89,89,89,89	0
91	MG	8	227	1/1	0.84	0.17	51,51,51,51	0
91	MG	8	229	1/1	0.84	0.30	40,40,40,40	0
91	MG	5	4075	1/1	0.84	0.41	49,49,49,49	0
91	MG	5	3922	1/1	0.84	0.44	36,36,36,36	0
91	MG	1	3982	1/1	0.84	0.58	48,48,48,48	0
91	MG	5	3777	1/1	0.84	0.32	48,48,48,48	0
91	MG	1	4105	1/1	0.84	0.31	54,54,54,54	0
91	MG	5	3788	1/1	0.84	0.73	34,34,34,34	0
91	MG	1	4106	1/1	0.84	0.30	39,39,39,39	0
91	MG	1	3903	1/1	0.84	0.44	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	o2	202	1/1	0.84	0.36	32,32,32,32	0
91	MG	5	3977	1/1	0.84	0.19	48,48,48,48	0
91	MG	5	3982	1/1	0.84	0.51	41,41,41,41	0
91	MG	5	3796	1/1	0.84	0.62	42,42,42,42	0
91	MG	5	4114	1/1	0.84	0.24	44,44,44,44	0
91	MG	6	2074	1/1	0.84	0.67	88,88,88,88	0
91	MG	1	3738	1/1	0.84	0.50	37,37,37,37	0
91	MG	5	3808	1/1	0.85	0.38	37,37,37,37	0
91	MG	1	4048	1/1	0.85	0.18	44,44,44,44	0
91	MG	5	3993	1/1	0.85	0.52	41,41,41,41	0
91	MG	5	4125	1/1	0.85	0.30	41,41,41,41	0
91	MG	1	3911	1/1	0.85	0.85	52,52,52,52	0
91	MG	6	2077	1/1	0.85	0.30	55,55,55,55	0
91	MG	1	4121	1/1	0.85	0.36	39,39,39,39	0
91	MG	6	2127	1/1	0.85	0.15	54,54,54,54	0
91	MG	1	3993	1/1	0.85	0.55	45,45,45,45	0
91	MG	5	4145	1/1	0.85	0.37	48,48,48,48	0
91	MG	1	4058	1/1	0.85	0.34	38,38,38,38	0
91	MG	5	3849	1/1	0.85	0.62	31,31,31,31	0
91	MG	1	3995	1/1	0.85	0.58	47,47,47,47	0
91	MG	c9	201	1/1	0.85	0.19	90,90,90,90	0
91	MG	5	4026	1/1	0.85	0.38	33,33,33,33	0
91	MG	6	2084	1/1	0.85	0.43	60,60,60,60	0
91	MG	5	4164	1/1	0.85	0.27	33,33,33,33	0
91	MG	1	3748	1/1	0.85	0.40	69,69,69,69	0
91	MG	2	2096	1/1	0.85	0.28	75,75,75,75	0
91	MG	1	3921	1/1	0.85	0.26	42,42,42,42	0
91	MG	5	4041	1/1	0.85	0.30	41,41,41,41	0
91	MG	M3	1000	1/1	0.85	0.37	64,64,64,64	0
91	MG	1	3736	1/1	0.85	0.43	47,47,47,47	0
91	MG	5	3894	1/1	0.85	0.80	33,33,33,33	0
91	MG	2	2054	1/1	0.85	0.41	81,81,81,81	0
90	OHX	2	2048	7/7	0.85	0.29	100,100,100,100	0
91	MG	8	225	1/1	0.85	0.47	62,62,62,62	0
91	MG	2	2111	1/1	0.85	0.43	78,78,78,78	0
91	MG	6	2097	1/1	0.85	0.18	92,92,92,92	0
91	MG	1	4017	1/1	0.85	0.32	61,61,61,61	0
91	MG	l3	405	1/1	0.85	0.42	38,38,38,38	0
91	MG	5	4081	1/1	0.85	0.36	32,32,32,32	0
91	MG	5	3937	1/1	0.85	0.38	43,43,43,43	0
91	MG	1	3940	1/1	0.85	0.26	51,51,51,51	0
91	MG	1	3942	1/1	0.85	0.28	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	m6	203	1/1	0.85	0.74	29,29,29,29	0
91	MG	1	3901	1/1	0.85	0.79	37,37,37,37	0
91	MG	5	4093	1/1	0.85	0.43	35,35,35,35	0
91	MG	1	3857	1/1	0.85	0.44	35,35,35,35	0
91	MG	6	2161	1/1	0.85	0.37	59,59,59,59	0
91	MG	5	3798	1/1	0.85	0.44	52,52,52,52	0
91	MG	1	4037	1/1	0.85	0.96	46,46,46,46	0
91	MG	5	4106	1/1	0.85	0.55	37,37,37,37	0
91	MG	5	3979	1/1	0.85	0.22	50,50,50,50	0
91	MG	1	3859	1/1	0.85	0.67	41,41,41,41	0
91	MG	1	3987	1/1	0.85	0.43	35,35,35,35	0
91	MG	2	2093	1/1	0.86	0.14	81,81,81,81	0
91	MG	1	3795	1/1	0.86	0.24	39,39,39,39	0
91	MG	5	3828	1/1	0.86	0.39	35,35,35,35	0
91	MG	2	2058	1/1	0.86	0.25	81,81,81,81	0
91	MG	5	3974	1/1	0.86	0.34	38,38,38,38	0
91	MG	5	4068	1/1	0.86	0.70	40,40,40,40	0
91	MG	N8	203	1/1	0.86	0.96	32,32,32,32	0
91	MG	5	3978	1/1	0.86	0.36	56,56,56,56	0
91	MG	1	3778	1/1	0.86	0.42	37,37,37,37	0
91	MG	5	3846	1/1	0.86	0.44	50,50,50,50	0
91	MG	7	219	1/1	0.86	0.38	45,45,45,45	0
91	MG	1	4113	1/1	0.86	0.37	39,39,39,39	0
91	MG	6	2163	1/1	0.86	0.46	66,66,66,66	0
91	MG	8	201	1/1	0.86	0.28	36,36,36,36	0
91	MG	1	3757	1/1	0.86	0.19	42,42,42,42	0
91	MG	6	2089	1/1	0.86	0.17	70,70,70,70	0
91	MG	1	4074	1/1	0.86	0.28	54,54,54,54	0
91	MG	1	4036	1/1	0.86	0.20	56,56,56,56	0
91	MG	1	3832	1/1	0.86	0.55	39,39,39,39	0
91	MG	8	230	1/1	0.86	0.49	56,56,56,56	0
91	MG	4	226	1/1	0.86	0.66	49,49,49,49	0
91	MG	6	2096	1/1	0.86	0.61	59,59,59,59	0
91	MG	5	4110	1/1	0.86	0.77	45,45,45,45	0
91	MG	5	3893	1/1	0.86	0.64	47,47,47,47	0
91	MG	1	4038	1/1	0.86	0.71	52,52,52,52	0
91	MG	5	3800	1/1	0.86	0.42	48,48,48,48	0
91	MG	5	3802	1/1	0.86	0.31	38,38,38,38	0
90	OHX	2	2044	7/7	0.86	0.52	88,88,88,88	0
91	MG	5	3908	1/1	0.86	0.63	44,44,44,44	0
91	MG	1	3749	1/1	0.86	0.55	55,55,55,55	0
91	MG	1	3852	1/1	0.86	0.64	52,52,52,52	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	3934	1/1	0.86	0.38	31,31,31,31	0
91	MG	1	3934	1/1	0.86	0.46	37,37,37,37	0
91	MG	5	4045	1/1	0.86	0.35	41,41,41,41	0
91	MG	5	4047	1/1	0.86	0.30	36,36,36,36	0
91	MG	M0	302	1/1	0.86	0.16	46,46,46,46	0
91	MG	1	3985	1/1	0.86	0.29	42,42,42,42	0
91	MG	5	4161	1/1	0.87	0.26	39,39,39,39	0
91	MG	5	3834	1/1	0.87	0.34	41,41,41,41	0
91	MG	5	4079	1/1	0.87	0.63	43,43,43,43	0
91	MG	5	3999	1/1	0.87	0.32	45,45,45,45	0
91	MG	5	3918	1/1	0.87	0.57	42,42,42,42	0
91	MG	1	3770	1/1	0.87	0.47	41,41,41,41	0
91	MG	5	4173	1/1	0.87	0.56	30,30,30,30	0
91	MG	1	4069	1/1	0.87	0.26	46,46,46,46	0
91	MG	5	4008	1/1	0.87	0.31	56,56,56,56	0
91	MG	5	3936	1/1	0.87	0.56	38,38,38,38	0
91	MG	7	221	1/1	0.87	0.46	47,47,47,47	0
91	MG	2	2073	1/1	0.87	0.30	93,93,93,93	0
91	MG	5	4018	1/1	0.87	0.29	38,38,38,38	0
91	MG	5	3939	1/1	0.87	0.53	38,38,38,38	0
91	MG	8	220	1/1	0.87	0.25	49,49,49,49	0
91	MG	5	3940	1/1	0.87	0.55	34,34,34,34	0
91	MG	6	2165	1/1	0.87	0.29	69,69,69,69	0
91	MG	6	2104	1/1	0.87	0.30	90,90,90,90	0
91	MG	5	4028	1/1	0.87	0.36	36,36,36,36	0
91	MG	5	4029	1/1	0.87	0.23	56,56,56,56	0
91	MG	6	2142	1/1	0.87	0.84	48,48,48,48	0
91	MG	5	4033	1/1	0.87	0.27	47,47,47,47	0
91	MG	1	3737	1/1	0.87	0.25	48,48,48,48	0
91	MG	5	4118	1/1	0.87	0.48	35,35,35,35	0
91	MG	5	3964	1/1	0.87	0.32	55,55,55,55	0
91	MG	6	2170	1/1	0.87	0.41	64,64,64,64	0
91	MG	m4	201	1/1	0.87	0.28	42,42,42,42	0
91	MG	m5	303	1/1	0.87	0.44	37,37,37,37	0
91	MG	6	2146	1/1	0.87	0.24	75,75,75,75	0
91	MG	1	3777	1/1	0.87	0.32	31,31,31,31	0
91	MG	M7	205	1/1	0.87	0.34	38,38,38,38	0
91	MG	m7	203	1/1	0.87	0.32	33,33,33,33	0
91	MG	5	3892	1/1	0.87	0.63	43,43,43,43	0
91	MG	n8	201	1/1	0.87	0.14	43,43,43,43	0
91	MG	5	4134	1/1	0.87	0.33	36,36,36,36	0
91	MG	1	4021	1/1	0.87	0.20	83,83,83,83	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	o3	203	1/1	0.87	0.67	36,36,36,36	0
91	MG	5	3775	1/1	0.87	0.34	32,32,32,32	0
91	MG	p	102	1/1	0.87	0.34	35,35,35,35	0
91	MG	p	103	1/1	0.87	0.78	40,40,40,40	0
91	MG	6	2109	1/1	0.87	0.82	90,90,90,90	0
91	MG	2	2119	1/1	0.87	0.13	87,87,87,87	0
91	MG	5	3784	1/1	0.87	0.46	37,37,37,37	0
91	MG	1	3876	1/1	0.87	0.74	43,43,43,43	0
91	MG	5	3995	1/1	0.87	0.22	34,34,34,34	0
91	MG	1	4028	1/1	0.88	0.19	43,43,43,43	0
91	MG	2	2060	1/1	0.88	0.76	74,74,74,74	0
91	MG	N8	206	1/1	0.88	0.31	37,37,37,37	0
91	MG	5	4036	1/1	0.88	0.31	41,41,41,41	0
91	MG	1	4087	1/1	0.88	0.81	34,34,34,34	0
91	MG	1	3742	1/1	0.88	0.50	41,41,41,41	0
90	OHX	6	1970	7/7	0.88	0.56	105,105,105,105	0
91	MG	6	2063	1/1	0.88	0.26	89,89,89,89	0
91	MG	2	2126	1/1	0.88	0.56	78,78,78,78	0
91	MG	1	4100	1/1	0.88	0.20	37,37,37,37	0
91	MG	5	4054	1/1	0.88	0.29	36,36,36,36	0
91	MG	1	3943	1/1	0.88	0.34	47,47,47,47	0
91	MG	6	2113	1/1	0.88	0.43	55,55,55,55	0
91	MG	6	2068	1/1	0.88	0.49	105,105,105,105	0
91	MG	6	2176	1/1	0.88	0.46	58,58,58,58	0
91	MG	5	3812	1/1	0.88	0.21	42,42,42,42	0
90	OHX	5	3647	7/7	0.88	0.38	64,64,64,64	0
91	MG	1	3824	1/1	0.88	0.68	38,38,38,38	0
91	MG	5	3970	1/1	0.88	0.45	32,32,32,32	0
91	MG	2	2130	1/1	0.88	0.23	85,85,85,85	0
91	MG	5	3825	1/1	0.88	0.65	35,35,35,35	0
90	OHX	8	217	7/7	0.88	0.46	55,55,55,55	0
91	MG	1	4115	1/1	0.88	0.47	63,63,63,63	0
91	MG	1	4055	1/1	0.88	0.98	32,32,32,32	0
91	MG	5	3981	1/1	0.88	0.39	35,35,35,35	0
91	MG	1	3784	1/1	0.88	0.34	57,57,57,57	0
91	MG	5	3983	1/1	0.88	0.18	41,41,41,41	0
91	MG	5	3837	1/1	0.88	0.54	34,34,34,34	0
91	MG	1	3754	1/1	0.88	0.26	35,35,35,35	0
91	MG	5	3843	1/1	0.88	0.35	34,34,34,34	0
91	MG	5	3992	1/1	0.88	0.65	40,40,40,40	0
91	MG	3	215	1/1	0.88	0.15	59,59,59,59	0
91	MG	1	3838	1/1	0.88	0.48	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	2	2115	1/1	0.88	0.66	84,84,84,84	0
91	MG	2	2088	1/1	0.88	0.45	77,77,77,77	0
91	MG	m6	205	1/1	0.88	0.49	36,36,36,36	0
91	MG	5	3863	1/1	0.88	0.58	38,38,38,38	0
91	MG	5	3750	1/1	0.88	0.74	60,60,60,60	0
91	MG	n6	202	1/1	0.88	0.33	42,42,42,42	0
91	MG	1	4064	1/1	0.88	1.02	54,54,54,54	0
91	MG	1	4067	1/1	0.88	0.45	39,39,39,39	0
91	MG	1	3849	1/1	0.88	0.52	39,39,39,39	0
91	MG	5	3888	1/1	0.88	0.40	48,48,48,48	0
91	MG	o4	201	1/1	0.88	0.11	63,63,63,63	0
91	MG	5	4127	1/1	0.88	0.55	36,36,36,36	0
91	MG	q1	101	1/1	0.88	0.38	58,58,58,58	0
91	MG	5	3758	1/1	0.88	0.57	43,43,43,43	0
91	MG	1	4072	1/1	0.88	0.63	37,37,37,37	0
91	MG	1	3797	1/1	0.88	0.29	51,51,51,51	0
90	OHX	2	1994	7/7	0.88	0.32	98,98,98,98	0
91	MG	1	3856	1/1	0.88	0.70	36,36,36,36	0
91	MG	2	2099	1/1	0.88	0.60	80,80,80,80	0
91	MG	1	4078	1/1	0.88	0.28	36,36,36,36	0
91	MG	5	4116	1/1	0.89	0.66	44,44,44,44	0
91	MG	5	3814	1/1	0.89	0.56	38,38,38,38	0
91	MG	2	2087	1/1	0.89	0.34	77,77,77,77	0
91	MG	6	2101	1/1	0.89	0.45	53,53,53,53	0
91	MG	5	3822	1/1	0.89	0.35	42,42,42,42	0
91	MG	5	3823	1/1	0.89	0.62	50,50,50,50	0
91	MG	2	2121	1/1	0.89	0.47	68,68,68,68	0
91	MG	5	3989	1/1	0.89	0.22	44,44,44,44	0
91	MG	5	3826	1/1	0.89	0.34	43,43,43,43	0
91	MG	1	4007	1/1	0.89	0.20	51,51,51,51	0
91	MG	5	4133	1/1	0.89	0.47	47,47,47,47	0
91	MG	M7	204	1/1	0.89	0.52	38,38,38,38	0
90	OHX	1	3682	7/7	0.89	0.38	87,87,87,87	0
91	MG	5	4140	1/1	0.89	0.73	39,39,39,39	0
91	MG	1	3958	1/1	0.89	0.32	36,36,36,36	0
91	MG	5	3836	1/1	0.89	0.27	37,37,37,37	0
91	MG	5	4149	1/1	0.89	0.45	34,34,34,34	0
91	MG	6	2181	1/1	0.89	0.17	77,77,77,77	0
91	MG	5	4006	1/1	0.89	0.30	33,33,33,33	0
91	MG	1	3916	1/1	0.89	0.63	35,35,35,35	0
91	MG	5	4156	1/1	0.89	0.32	39,39,39,39	0
91	MG	1	4015	1/1	0.89	0.96	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	N8	204	1/1	0.89	0.24	44,44,44,44	0
91	MG	5	4011	1/1	0.89	0.53	32,32,32,32	0
91	MG	1	3961	1/1	0.89	0.43	31,31,31,31	0
91	MG	5	3853	1/1	0.89	0.22	36,36,36,36	0
91	MG	1	4019	1/1	0.89	0.14	49,49,49,49	0
91	MG	1	4083	1/1	0.89	0.31	56,56,56,56	0
90	OHX	1	3721	7/7	0.89	0.51	62,62,62,62	0
91	MG	5	4022	1/1	0.89	0.34	37,37,37,37	0
91	MG	1	4022	1/1	0.89	0.27	34,34,34,34	0
91	MG	7	213	1/1	0.89	0.81	33,33,33,33	0
91	MG	5	4027	1/1	0.89	0.23	40,40,40,40	0
91	MG	d6	102	1/1	0.89	0.62	64,64,64,64	0
91	MG	1	3926	1/1	0.89	0.15	38,38,38,38	0
91	MG	1	3965	1/1	0.89	0.36	44,44,44,44	0
91	MG	1	3966	1/1	0.89	0.29	32,32,32,32	0
91	MG	1	3930	1/1	0.89	0.42	60,60,60,60	0
90	OHX	2	1976	7/7	0.89	0.45	110,110,110,110	0
91	MG	6	2132	1/1	0.89	0.51	59,59,59,59	0
91	MG	5	3757	1/1	0.89	0.46	42,42,42,42	0
91	MG	1	3977	1/1	0.89	0.32	65,65,65,65	0
91	MG	5	3759	1/1	0.89	0.22	32,32,32,32	0
91	MG	1	3978	1/1	0.89	0.70	43,43,43,43	0
91	MG	1	3827	1/1	0.89	0.89	50,50,50,50	0
91	MG	5	3906	1/1	0.89	0.61	33,33,33,33	0
91	MG	1	4110	1/1	0.89	0.64	41,41,41,41	0
91	MG	1	3870	1/1	0.89	0.48	52,52,52,52	0
91	MG	2	2127	1/1	0.89	0.74	77,77,77,77	0
91	MG	1	4046	1/1	0.89	0.59	43,43,43,43	0
91	MG	5	3780	1/1	0.89	0.29	35,35,35,35	0
91	MG	2	2055	1/1	0.89	0.79	75,75,75,75	0
91	MG	1	3835	1/1	0.89	0.74	32,32,32,32	0
91	MG	1	3779	1/1	0.89	0.53	37,37,37,37	0
91	MG	3	216	1/1	0.89	0.11	59,59,59,59	0
91	MG	m7	201	1/1	0.89	0.38	34,34,34,34	0
91	MG	m7	202	1/1	0.89	0.32	36,36,36,36	0
91	MG	6	2151	1/1	0.89	0.69	64,64,64,64	0
91	MG	n3	201	1/1	0.89	0.44	32,32,32,32	0
91	MG	1	3805	1/1	0.89	0.51	52,52,52,52	0
91	MG	5	3799	1/1	0.89	0.37	31,31,31,31	0
91	MG	5	3947	1/1	0.89	0.24	40,40,40,40	0
91	MG	5	4089	1/1	0.89	0.24	51,51,51,51	0
91	MG	4	225	1/1	0.89	0.53	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	o3	202	1/1	0.89	0.52	44,44,44,44	0
91	MG	5	3956	1/1	0.89	0.45	33,33,33,33	0
91	MG	5	3957	1/1	0.89	0.28	38,38,38,38	0
91	MG	5	3962	1/1	0.89	0.55	46,46,46,46	0
91	MG	2	2067	1/1	0.89	0.60	78,78,78,78	0
91	MG	1	3902	1/1	0.89	0.51	40,40,40,40	0
91	MG	4	228	1/1	0.89	0.61	40,40,40,40	0
91	MG	1	3996	1/1	0.89	0.50	40,40,40,40	0
91	MG	4	235	1/1	0.89	0.21	41,41,41,41	0
91	MG	1	3997	1/1	0.89	0.34	43,43,43,43	0
93	PHE	1	3401	11/12	0.89	0.29	34,34,44,44	0
91	MG	1	3740	1/1	0.89	0.29	48,48,48,48	0
91	MG	1	3810	1/1	0.89	0.27	40,40,40,40	0
91	MG	1	4023	1/1	0.90	0.45	60,60,60,60	0
91	MG	1	3962	1/1	0.90	0.70	54,54,54,54	0
90	OHX	2	2015	7/7	0.90	0.34	92,92,92,92	0
90	OHX	2	2024	7/7	0.90	0.27	103,103,103,103	0
90	OHX	1	3727	7/7	0.90	0.40	50,50,50,50	0
91	MG	2	2065	1/1	0.90	0.42	88,88,88,88	0
91	MG	1	4108	1/1	0.90	0.39	44,44,44,44	0
91	MG	1	3906	1/1	0.90	0.47	49,49,49,49	0
91	MG	5	4078	1/1	0.90	0.26	32,32,32,32	0
91	MG	1	3972	1/1	0.90	0.32	43,43,43,43	0
91	MG	2	2066	1/1	0.90	0.81	72,72,72,72	0
91	MG	1	4040	1/1	0.90	0.25	49,49,49,49	0
90	OHX	2	2030	7/7	0.90	0.43	95,95,95,95	0
91	MG	2	2133	1/1	0.90	0.31	85,85,85,85	0
90	OHX	6	2016	7/7	0.90	0.37	95,95,95,95	0
91	MG	5	3991	1/1	0.90	0.61	38,38,38,38	0
91	MG	5	3869	1/1	0.90	0.45	59,59,59,59	0
91	MG	1	4047	1/1	0.90	0.51	43,43,43,43	0
91	MG	5	3880	1/1	0.90	0.40	37,37,37,37	0
91	MG	5	3997	1/1	0.90	0.28	31,31,31,31	0
91	MG	2	2136	1/1	0.90	0.19	90,90,90,90	0
90	OHX	6	2037	7/7	0.90	0.45	77,77,77,77	0
90	OHX	6	2048	7/7	0.90	0.31	77,77,77,77	0
91	MG	2	2140	1/1	0.90	0.27	83,83,83,83	0
91	MG	2	2105	1/1	0.90	0.23	96,96,96,96	0
90	OHX	6	2055	7/7	0.90	0.30	118,118,118,118	0
91	MG	1	3936	1/1	0.90	0.34	40,40,40,40	0
91	MG	4	234	1/1	0.90	0.37	45,45,45,45	0
90	OHX	2	2039	7/7	0.90	0.23	133,133,133,133	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	4013	1/1	0.90	0.43	38,38,38,38	0
90	OHX	7	210	7/7	0.90	0.34	91,91,91,91	0
91	MG	2	2077	1/1	0.90	1.23	59,59,59,59	0
91	MG	L3	404	1/1	0.90	0.54	51,51,51,51	0
90	OHX	2	2011	7/7	0.90	0.38	104,104,104,104	0
91	MG	L7	301	1/1	0.90	0.49	39,39,39,39	0
91	MG	2	2053	1/1	0.90	0.83	70,70,70,70	0
91	MG	5	3924	1/1	0.90	0.55	36,36,36,36	0
91	MG	1	3863	1/1	0.90	0.31	30,30,30,30	0
91	MG	n8	202	1/1	0.90	0.23	34,34,34,34	0
91	MG	n8	203	1/1	0.90	0.96	34,34,34,34	0
91	MG	6	2103	1/1	0.90	0.59	62,62,62,62	0
91	MG	5	4136	1/1	0.90	0.35	38,38,38,38	0
91	MG	6	2171	1/1	0.90	0.94	68,68,68,68	0
90	OHX	2	2012	7/7	0.90	0.28	108,108,108,108	0
91	MG	1	3950	1/1	0.90	0.38	44,44,44,44	0
91	MG	5	4146	1/1	0.90	0.29	37,37,37,37	0
91	MG	2	2085	1/1	0.90	0.68	76,76,76,76	0
90	OHX	2	2049	7/7	0.90	0.41	108,108,108,108	0
90	OHX	2	2050	7/7	0.90	0.23	115,115,115,115	0
91	MG	N8	201	1/1	0.90	0.23	31,31,31,31	0
90	OHX	C5	201	7/7	0.90	0.28	105,105,105,105	0
90	OHX	SR	401	7/7	0.90	0.23	121,121,121,121	0
91	MG	1	3883	1/1	0.90	0.81	42,42,42,42	0
90	OHX	1	3593	7/7	0.90	0.37	66,66,66,66	0
90	OHX	1	3604	7/7	0.90	0.42	43,43,43,43	0
96	8AN	P	101	22/23	0.90	0.26	37,38,38,38	0
96	8AN	p	101	22/23	0.90	0.24	33,34,35,35	0
91	MG	5	3889	1/1	0.91	0.57	39,39,39,39	0
91	MG	5	4135	1/1	0.91	0.47	38,38,38,38	0
91	MG	4	233	1/1	0.91	0.23	44,44,44,44	0
91	MG	1	3860	1/1	0.91	0.72	44,44,44,44	0
91	MG	5	4015	1/1	0.91	0.72	66,66,66,66	0
91	MG	6	2143	1/1	0.91	0.51	75,75,75,75	0
91	MG	1	3969	1/1	0.91	0.67	42,42,42,42	0
90	OHX	5	3738	7/7	0.91	0.50	69,69,69,69	0
91	MG	1	3933	1/1	0.91	0.28	51,51,51,51	0
91	MG	5	3786	1/1	0.91	0.21	33,33,33,33	0
91	MG	6	2148	1/1	0.91	0.21	58,58,58,58	0
91	MG	5	4023	1/1	0.91	0.60	41,41,41,41	0
91	MG	5	4024	1/1	0.91	0.32	49,49,49,49	0
91	MG	2	2063	1/1	0.91	0.23	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	3791	1/1	0.91	0.21	42,42,42,42	0
91	MG	5	3909	1/1	0.91	0.60	31,31,31,31	0
91	MG	5	3913	1/1	0.91	0.65	30,30,30,30	0
91	MG	5	4166	1/1	0.91	1.03	44,44,44,44	0
91	MG	5	4030	1/1	0.91	0.43	33,33,33,33	0
91	MG	2	2116	1/1	0.91	0.13	85,85,85,85	0
91	MG	1	4027	1/1	0.91	0.17	41,41,41,41	0
91	MG	5	3919	1/1	0.91	0.54	34,34,34,34	0
90	OHX	2	1947	7/7	0.91	0.24	106,106,106,106	0
91	MG	5	3923	1/1	0.91	0.51	38,38,38,38	0
91	MG	1	3980	1/1	0.91	1.06	63,63,63,63	0
91	MG	5	4040	1/1	0.91	0.17	54,54,54,54	0
91	MG	1	3741	1/1	0.91	0.59	35,35,35,35	0
90	OHX	6	1931	7/7	0.91	0.21	86,86,86,86	0
91	MG	7	224	1/1	0.91	0.22	36,36,36,36	0
90	OHX	2	1974	7/7	0.91	0.26	112,112,112,112	0
91	MG	7	226	1/1	0.91	0.12	46,46,46,46	0
91	MG	N0	201	1/1	0.91	0.91	43,43,43,43	0
91	MG	5	4051	1/1	0.91	0.45	34,34,34,34	0
91	MG	6	2164	1/1	0.91	0.25	57,57,57,57	0
90	OHX	2	2042	7/7	0.91	0.23	126,126,126,126	0
91	MG	1	4101	1/1	0.91	1.01	43,43,43,43	0
91	MG	1	3886	1/1	0.91	0.68	38,38,38,38	0
91	MG	5	4060	1/1	0.91	0.19	48,48,48,48	0
91	MG	5	4061	1/1	0.91	0.62	39,39,39,39	0
91	MG	2	2123	1/1	0.91	0.45	96,96,96,96	0
91	MG	1	3947	1/1	0.91	0.55	43,43,43,43	0
91	MG	5	3954	1/1	0.91	0.12	48,48,48,48	0
91	MG	5	3955	1/1	0.91	0.71	35,35,35,35	0
91	MG	5	4071	1/1	0.91	0.34	35,35,35,35	0
90	OHX	6	2031	7/7	0.91	0.39	106,106,106,106	0
91	MG	1	3900	1/1	0.91	0.19	31,31,31,31	0
91	MG	5	3959	1/1	0.91	0.36	41,41,41,41	0
91	MG	1	4049	1/1	0.91	0.52	47,47,47,47	0
91	MG	1	3792	1/1	0.91	0.36	38,38,38,38	0
90	OHX	2	2051	7/7	0.91	0.39	105,105,105,105	0
91	MG	1	3839	1/1	0.91	0.54	42,42,42,42	0
91	MG	1	3842	1/1	0.91	0.59	38,38,38,38	0
91	MG	5	3829	1/1	0.91	0.35	41,41,41,41	0
91	MG	6	2117	1/1	0.91	0.47	55,55,55,55	0
91	MG	6	2118	1/1	0.91	0.41	96,96,96,96	0
90	OHX	6	2040	7/7	0.91	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
91	MG	6	2121	1/1	0.91	0.36	62,62,62,62	0
91	MG	6	2123	1/1	0.91	0.07	93,93,93,93	0
91	MG	1	4124	1/1	0.91	0.99	49,49,49,49	0
91	MG	1	3796	1/1	0.91	0.38	35,35,35,35	0
90	OHX	6	2042	7/7	0.91	0.30	94,94,94,94	0
91	MG	5	4111	1/1	0.91	0.30	35,35,35,35	0
91	MG	6	2072	1/1	0.91	0.53	59,59,59,59	0
91	MG	4	201	1/1	0.91	0.31	32,32,32,32	0
90	OHX	1	3684	7/7	0.91	0.42	65,65,65,65	0
91	MG	1	3758	1/1	0.91	1.06	41,41,41,41	0
90	OHX	1	3701	7/7	0.91	0.31	38,38,38,38	0
91	MG	5	3865	1/1	0.91	0.53	44,44,44,44	0
91	MG	6	2135	1/1	0.91	0.43	64,64,64,64	0
91	MG	1	4068	1/1	0.91	0.25	43,43,43,43	0
91	MG	5	3868	1/1	0.91	0.53	32,32,32,32	0
90	OHX	2	2028	7/7	0.91	0.28	109,109,109,109	0
91	MG	4	231	1/1	0.91	0.37	46,46,46,46	0
91	MG	1	3767	1/1	0.91	0.47	46,46,46,46	0
95	SPS	1	4125	23/23	0.91	0.24	37,37,48,51	0
91	MG	6	2083	1/1	0.91	0.81	56,56,56,56	0
91	MG	5	3769	1/1	0.91	0.40	35,35,35,35	0
90	OHX	c3	201	7/7	0.92	0.28	89,89,89,89	0
91	MG	1	4103	1/1	0.92	0.39	39,39,39,39	0
90	OHX	c5	201	7/7	0.92	0.26	99,99,99,99	0
90	OHX	5	3619	7/7	0.92	0.29	73,73,73,73	0
91	MG	1	4013	1/1	0.92	0.41	37,37,37,37	0
90	OHX	2	2009	7/7	0.92	0.22	117,117,117,117	0
91	MG	1	3939	1/1	0.92	0.43	54,54,54,54	0
90	OHX	5	3709	7/7	0.92	0.40	57,57,57,57	0
90	OHX	1	3695	7/7	0.92	0.35	64,64,64,64	0
90	OHX	1	3697	7/7	0.92	0.31	58,58,58,58	0
91	MG	6	2174	1/1	0.92	0.26	60,60,60,60	0
91	MG	5	4137	1/1	0.92	0.45	38,38,38,38	0
91	MG	5	4003	1/1	0.92	0.28	36,36,36,36	0
90	OHX	2	2031	7/7	0.92	0.36	103,103,103,103	0
90	OHX	l3	402	7/7	0.92	0.51	67,67,67,67	0
91	MG	6	2177	1/1	0.92	0.12	94,94,94,94	0
91	MG	2	2052	1/1	0.92	0.91	69,69,69,69	0
91	MG	1	3948	1/1	0.92	0.50	48,48,48,48	0
91	MG	1	3774	1/1	0.92	0.37	44,44,44,44	0
91	MG	5	4152	1/1	0.92	0.38	40,40,40,40	0
90	OHX	1	3703	7/7	0.92	0.39	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3707	7/7	0.92	0.28	114,114,114,114	0
91	MG	s4	301	1/1	0.92	0.32	63,63,63,63	0
90	OHX	2	2032	7/7	0.92	0.39	106,106,106,106	0
91	MG	1	4033	1/1	0.92	0.28	34,34,34,34	0
91	MG	5	3877	1/1	0.92	0.47	37,37,37,37	0
91	MG	5	4163	1/1	0.92	0.56	37,37,37,37	0
91	MG	5	3879	1/1	0.92	0.75	36,36,36,36	0
90	OHX	2	2033	7/7	0.92	0.22	123,123,123,123	0
91	MG	5	3881	1/1	0.92	0.97	35,35,35,35	0
91	MG	1	3864	1/1	0.92	0.73	49,49,49,49	0
91	MG	5	4025	1/1	0.92	0.37	39,39,39,39	0
91	MG	1	3956	1/1	0.92	0.21	56,56,56,56	0
91	MG	5	4174	1/1	0.92	0.15	43,43,43,43	0
91	MG	1	3957	1/1	0.92	0.27	39,39,39,39	0
91	MG	2	2097	1/1	0.92	0.19	118,118,118,118	0
90	OHX	S9	201	7/7	0.92	0.50	93,93,93,93	0
91	MG	7	215	1/1	0.92	0.49	36,36,36,36	0
90	OHX	2	2038	7/7	0.92	0.35	95,95,95,95	0
90	OHX	6	1973	7/7	0.92	0.25	68,68,68,68	0
91	MG	1	3874	1/1	0.92	0.51	44,44,44,44	0
91	MG	1	3789	1/1	0.92	0.50	33,33,33,33	0
91	MG	5	3753	1/1	0.92	0.34	43,43,43,43	0
91	MG	L4	403	1/1	0.92	0.54	50,50,50,50	0
91	MG	1	4050	1/1	0.92	0.99	53,53,53,53	0
91	MG	8	202	1/1	0.92	0.41	39,39,39,39	0
91	MG	8	219	1/1	0.92	0.36	37,37,37,37	0
91	MG	6	2116	1/1	0.92	0.34	63,63,63,63	0
90	OHX	2	1980	7/7	0.92	0.22	140,140,140,140	0
91	MG	5	3761	1/1	0.92	0.44	33,33,33,33	0
91	MG	5	3916	1/1	0.92	0.74	44,44,44,44	0
91	MG	1	3882	1/1	0.92	0.39	44,44,44,44	0
91	MG	2	2102	1/1	0.92	0.25	98,98,98,98	0
91	MG	5	4052	1/1	0.92	0.56	65,65,65,65	0
90	OHX	6	2019	7/7	0.92	0.38	75,75,75,75	0
90	OHX	2	2025	7/7	0.92	0.41	85,85,85,85	0
91	MG	1	3974	1/1	0.92	0.48	35,35,35,35	0
91	MG	1	3889	1/1	0.92	0.93	36,36,36,36	0
90	OHX	6	2036	7/7	0.92	0.39	73,73,73,73	0
91	MG	1	3798	1/1	0.92	0.25	34,34,34,34	0
90	OHX	1	3594	7/7	0.92	0.43	68,68,68,68	0
91	MG	5	3785	1/1	0.92	0.34	33,33,33,33	0
91	MG	1	3733	1/1	0.92	0.48	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	2038	7/7	0.92	0.25	105,105,105,105	0
91	MG	5	4069	1/1	0.92	0.49	33,33,33,33	0
91	MG	2	2109	1/1	0.92	0.30	80,80,80,80	0
91	MG	1	3807	1/1	0.92	0.32	48,48,48,48	0
91	MG	O5	201	1/1	0.92	0.55	42,42,42,42	0
91	MG	5	3795	1/1	0.92	0.30	37,37,37,37	0
91	MG	O7	102	1/1	0.92	0.20	42,42,42,42	0
90	OHX	2	1995	7/7	0.92	0.29	103,103,103,103	0
91	MG	Q2	503	1/1	0.92	0.24	48,48,48,48	0
91	MG	1	3986	1/1	0.92	0.39	43,43,43,43	0
90	OHX	1	3663	7/7	0.92	0.45	73,73,73,73	0
90	OHX	1	3666	7/7	0.92	0.36	81,81,81,81	0
90	OHX	2	2046	7/7	0.92	0.46	100,100,100,100	0
91	MG	5	3968	1/1	0.92	0.30	40,40,40,40	0
91	MG	6	2144	1/1	0.92	0.29	94,94,94,94	0
91	MG	5	4098	1/1	0.92	1.34	32,32,32,32	0
90	OHX	6	2056	7/7	0.92	0.20	99,99,99,99	0
90	OHX	6	2057	7/7	0.92	0.44	92,92,92,92	0
91	MG	5	3972	1/1	0.92	0.47	37,37,37,37	0
91	MG	5	3973	1/1	0.92	0.13	46,46,46,46	0
91	MG	5	4108	1/1	0.92	0.42	32,32,32,32	0
91	MG	1	3927	1/1	0.92	0.17	56,56,56,56	0
91	MG	1	3746	1/1	0.92	0.17	48,48,48,48	0
91	MG	2	2074	1/1	0.92	0.76	80,80,80,80	0
91	MG	1	4097	1/1	0.92	0.36	41,41,41,41	0
91	MG	1	4001	1/1	0.92	0.32	52,52,52,52	0
91	MG	6	2075	1/1	0.92	0.46	71,71,71,71	0
90	OHX	6	2059	7/7	0.92	0.31	103,103,103,103	0
90	OHX	s9	201	7/7	0.92	0.40	77,77,77,77	0
91	MG	1	3959	1/1	0.93	0.15	41,41,41,41	0
91	MG	1	3844	1/1	0.93	0.71	39,39,39,39	0
90	OHX	5	3723	7/7	0.93	0.34	36,36,36,36	0
91	MG	5	3914	1/1	0.93	0.55	48,48,48,48	0
90	OHX	6	1980	7/7	0.93	0.21	112,112,112,112	0
91	MG	6	2081	1/1	0.93	0.23	70,70,70,70	0
90	OHX	5	3746	7/7	0.93	0.26	61,61,61,61	0
90	OHX	6	1987	7/7	0.93	0.28	89,89,89,89	0
91	MG	5	3920	1/1	0.93	0.71	44,44,44,44	0
91	MG	1	3853	1/1	0.93	0.80	43,43,43,43	0
91	MG	1	4082	1/1	0.93	0.46	54,54,54,54	0
90	OHX	6	1988	7/7	0.93	0.36	82,82,82,82	0
91	MG	5	3929	1/1	0.93	0.76	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	4103	1/1	0.93	0.28	38,38,38,38	0
91	MG	1	4084	1/1	0.93	0.21	33,33,33,33	0
91	MG	1	3855	1/1	0.93	0.28	32,32,32,32	0
91	MG	1	3750	1/1	0.93	0.51	39,39,39,39	0
91	MG	1	4088	1/1	0.93	0.69	44,44,44,44	0
91	MG	1	4091	1/1	0.93	0.26	33,33,33,33	0
91	MG	5	3942	1/1	0.93	0.39	40,40,40,40	0
91	MG	5	3755	1/1	0.93	0.19	34,34,34,34	0
91	MG	5	3756	1/1	0.93	0.70	44,44,44,44	0
90	OHX	6	1998	7/7	0.93	0.27	65,65,65,65	0
90	OHX	6	2002	7/7	0.93	0.33	71,71,71,71	0
90	OHX	2	1945	7/7	0.93	0.18	90,90,90,90	0
91	MG	5	3951	1/1	0.93	0.34	39,39,39,39	0
90	OHX	6	2017	7/7	0.93	0.34	99,99,99,99	0
90	OHX	S8	301	7/7	0.93	0.33	96,96,96,96	0
91	MG	6	2099	1/1	0.93	0.23	65,65,65,65	0
91	MG	5	3766	1/1	0.93	0.38	46,46,46,46	0
91	MG	5	3768	1/1	0.93	0.22	51,51,51,51	0
91	MG	6	2100	1/1	0.93	0.84	45,45,45,45	0
90	OHX	6	2023	7/7	0.93	0.49	91,91,91,91	0
91	MG	5	3967	1/1	0.93	0.28	40,40,40,40	0
91	MG	5	3774	1/1	0.93	0.20	33,33,33,33	0
91	MG	1	3762	1/1	0.93	0.30	34,34,34,34	0
90	OHX	6	2025	7/7	0.93	0.40	70,70,70,70	0
91	MG	1	3872	1/1	0.93	0.51	41,41,41,41	0
90	OHX	6	2027	7/7	0.93	0.43	91,91,91,91	0
90	OHX	2	2013	7/7	0.93	0.28	104,104,104,104	0
90	OHX	1	3693	7/7	0.93	0.35	80,80,80,80	0
91	MG	1	3878	1/1	0.93	0.61	33,33,33,33	0
90	OHX	2	1996	7/7	0.93	0.24	103,103,103,103	0
90	OHX	2	2020	7/7	0.93	0.31	96,96,96,96	0
91	MG	5	3980	1/1	0.93	0.56	43,43,43,43	0
91	MG	6	2112	1/1	0.93	0.23	63,63,63,63	0
90	OHX	6	2039	7/7	0.93	0.25	94,94,94,94	0
91	MG	2	2122	1/1	0.93	0.32	74,74,74,74	0
90	OHX	1	3700	7/7	0.93	0.31	87,87,87,87	0
91	MG	1	3998	1/1	0.93	0.58	43,43,43,43	0
91	MG	5	4160	1/1	0.93	0.20	44,44,44,44	0
91	MG	1	3780	1/1	0.93	0.49	52,52,52,52	0
91	MG	1	3890	1/1	0.93	0.30	40,40,40,40	0
91	MG	1	3896	1/1	0.93	0.67	44,44,44,44	0
91	MG	1	3781	1/1	0.93	0.42	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3501	7/7	0.93	0.18	66,66,66,66	0
91	MG	5	3994	1/1	0.93	0.48	31,31,31,31	0
90	OHX	6	2044	7/7	0.93	0.35	63,63,63,63	0
91	MG	5	3996	1/1	0.93	0.33	35,35,35,35	0
90	OHX	6	2047	7/7	0.93	0.40	87,87,87,87	0
90	OHX	1	3552	7/7	0.93	0.30	58,58,58,58	0
91	MG	5	3810	1/1	0.93	0.15	89,89,89,89	0
91	MG	1	3786	1/1	0.93	0.41	33,33,33,33	0
91	MG	5	4001	1/1	0.93	0.35	37,37,37,37	0
90	OHX	2	2047	7/7	0.93	0.47	105,105,105,105	0
91	MG	7	218	1/1	0.93	0.23	37,37,37,37	0
91	MG	1	3908	1/1	0.93	0.63	41,41,41,41	0
91	MG	7	220	1/1	0.93	0.21	48,48,48,48	0
91	MG	2	2129	1/1	0.93	0.15	80,80,80,80	0
90	OHX	1	3715	7/7	0.93	0.33	51,51,51,51	0
91	MG	1	3794	1/1	0.93	0.53	58,58,58,58	0
90	OHX	1	3720	7/7	0.93	0.36	61,61,61,61	0
91	MG	4	238	1/1	0.93	0.44	42,42,42,42	0
90	OHX	2	1986	7/7	0.93	0.35	107,107,107,107	0
91	MG	L3	405	1/1	0.93	0.14	41,41,41,41	0
90	OHX	2	2035	7/7	0.93	0.29	107,107,107,107	0
91	MG	2	2134	1/1	0.93	1.01	59,59,59,59	0
91	MG	1	3928	1/1	0.93	0.41	51,51,51,51	0
91	MG	1	3929	1/1	0.93	0.56	51,51,51,51	0
90	OHX	1	3612	7/7	0.93	0.31	87,87,87,87	0
91	MG	8	226	1/1	0.93	0.54	53,53,53,53	0
90	OHX	6	1939	7/7	0.93	0.16	102,102,102,102	0
91	MG	8	228	1/1	0.93	0.26	47,47,47,47	0
90	OHX	sR	401	7/7	0.93	0.25	116,116,116,116	0
91	MG	5	3842	1/1	0.93	0.60	38,38,38,38	0
91	MG	1	4035	1/1	0.93	0.67	37,37,37,37	0
90	OHX	5	3553	7/7	0.93	0.37	50,50,50,50	0
91	MG	l3	406	1/1	0.93	0.68	34,34,34,34	0
91	MG	5	3848	1/1	0.93	1.04	41,41,41,41	0
91	MG	6	2150	1/1	0.93	1.08	58,58,58,58	0
90	OHX	5	3601	7/7	0.93	0.26	84,84,84,84	0
91	MG	5	3854	1/1	0.93	0.54	53,53,53,53	0
90	OHX	6	1959	7/7	0.93	0.23	67,67,67,67	0
91	MG	1	4039	1/1	0.93	0.14	49,49,49,49	0
90	OHX	5	3645	7/7	0.93	0.41	56,56,56,56	0
91	MG	1	4041	1/1	0.93	0.51	53,53,53,53	0
90	OHX	1	3637	7/7	0.93	0.19	145,145,145,145	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	1	3814	1/1	0.93	0.38	50,50,50,50	0
91	MG	1	3816	1/1	0.93	0.28	34,34,34,34	0
91	MG	6	2162	1/1	0.93	0.34	55,55,55,55	0
90	OHX	5	3651	7/7	0.93	0.43	48,48,48,48	0
90	OHX	5	3658	7/7	0.93	0.38	58,58,58,58	0
90	OHX	5	3664	7/7	0.93	0.33	92,92,92,92	0
91	MG	5	4050	1/1	0.93	0.92	24,24,24,24	0
91	MG	6	2061	1/1	0.93	0.16	69,69,69,69	0
90	OHX	5	3668	7/7	0.93	0.36	60,60,60,60	0
91	MG	5	4053	1/1	0.93	0.32	43,43,43,43	0
90	OHX	5	3671	7/7	0.93	0.25	103,103,103,103	0
90	OHX	5	3685	7/7	0.93	0.35	73,73,73,73	0
91	MG	1	3949	1/1	0.93	0.46	36,36,36,36	0
91	MG	5	4058	1/1	0.93	0.30	47,47,47,47	0
90	OHX	5	3689	7/7	0.93	0.36	79,79,79,79	0
90	OHX	5	3699	7/7	0.93	0.38	63,63,63,63	0
91	MG	1	3833	1/1	0.93	0.47	39,39,39,39	0
91	MG	1	3834	1/1	0.93	0.45	35,35,35,35	0
90	OHX	5	3700	7/7	0.93	0.41	53,53,53,53	0
92	ZN	E1	501	1/1	0.93	0.06	109,109,109,109	0
91	MG	1	3836	1/1	0.93	0.66	34,34,34,34	0
90	OHX	2	1909	7/7	0.93	0.15	97,97,97,97	0
92	ZN	q2	501	1/1	0.93	0.09	47,47,47,47	0
90	OHX	5	3718	7/7	0.93	0.25	102,102,102,102	0
91	MG	5	4070	1/1	0.93	0.19	40,40,40,40	0
91	MG	5	3902	1/1	0.93	0.77	37,37,37,37	0
91	MG	5	4073	1/1	0.93	0.27	34,34,34,34	0
95	SPS	5	4176	23/23	0.93	0.24	33,34,45,47	0
90	OHX	5	3721	7/7	0.93	0.28	99,99,99,99	0
91	MG	5	4077	1/1	0.93	0.49	43,43,43,43	0
91	MG	N8	202	1/1	0.94	0.26	31,31,31,31	0
90	OHX	6	1953	7/7	0.94	0.15	109,109,109,109	0
91	MG	1	4029	1/1	0.94	0.60	44,44,44,44	0
91	MG	6	2172	1/1	0.94	0.60	64,64,64,64	0
91	MG	5	3905	1/1	0.94	0.85	38,38,38,38	0
91	MG	1	3910	1/1	0.94	0.48	38,38,38,38	0
90	OHX	5	3670	7/7	0.94	0.36	40,40,40,40	0
91	MG	5	4088	1/1	0.94	0.21	42,42,42,42	0
90	OHX	2	2017	7/7	0.94	0.31	88,88,88,88	0
91	MG	O7	101	1/1	0.94	0.23	40,40,40,40	0
91	MG	1	3913	1/1	0.94	0.61	49,49,49,49	0
90	OHX	5	3681	7/7	0.94	0.34	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	1960	7/7	0.94	0.19	77,77,77,77	0
90	OHX	5	3687	7/7	0.94	0.44	66,66,66,66	0
90	OHX	6	1968	7/7	0.94	0.38	74,74,74,74	0
91	MG	1	3788	1/1	0.94	0.87	39,39,39,39	0
91	MG	5	3921	1/1	0.94	0.61	31,31,31,31	0
90	OHX	5	3692	7/7	0.94	0.32	70,70,70,70	0
90	OHX	1	3601	7/7	0.94	0.40	62,62,62,62	0
90	OHX	2	1959	7/7	0.94	0.21	98,98,98,98	0
91	MG	5	3925	1/1	0.94	0.47	38,38,38,38	0
90	OHX	5	3703	7/7	0.94	0.22	57,57,57,57	0
90	OHX	2	2023	7/7	0.94	0.31	91,91,91,91	0
90	OHX	5	3715	7/7	0.94	0.41	59,59,59,59	0
90	OHX	1	3613	7/7	0.94	0.40	58,58,58,58	0
90	OHX	1	3625	7/7	0.94	0.38	70,70,70,70	0
90	OHX	5	3722	7/7	0.94	0.38	62,62,62,62	0
90	OHX	1	3630	7/7	0.94	0.31	59,59,59,59	0
91	MG	5	4119	1/1	0.94	0.16	41,41,41,41	0
90	OHX	5	3737	7/7	0.94	0.16	56,56,56,56	0
90	OHX	2	1970	7/7	0.94	0.38	98,98,98,98	0
90	OHX	6	2003	7/7	0.94	0.24	89,89,89,89	0
90	OHX	5	3748	7/7	0.94	0.34	87,87,87,87	0
90	OHX	6	2010	7/7	0.94	0.27	91,91,91,91	0
91	MG	5	4129	1/1	0.94	0.40	40,40,40,40	0
90	OHX	8	211	7/7	0.94	0.27	78,78,78,78	0
90	OHX	8	215	7/7	0.94	0.36	62,62,62,62	0
90	OHX	6	2015	7/7	0.94	0.38	79,79,79,79	0
90	OHX	1	3645	7/7	0.94	0.36	57,57,57,57	0
91	MG	5	3760	1/1	0.94	0.23	42,42,42,42	0
90	OHX	m9	201	7/7	0.94	0.46	89,89,89,89	0
91	MG	1	3820	1/1	0.94	0.24	49,49,49,49	0
91	MG	1	3822	1/1	0.94	0.47	44,44,44,44	0
90	OHX	2	1971	7/7	0.94	0.18	108,108,108,108	0
91	MG	5	4141	1/1	0.94	0.17	38,38,38,38	0
90	OHX	6	2018	7/7	0.94	0.21	114,114,114,114	0
90	OHX	2	2027	7/7	0.94	0.32	93,93,93,93	0
90	OHX	1	3667	7/7	0.94	0.38	92,92,92,92	0
91	MG	1	3830	1/1	0.94	0.36	38,38,38,38	0
90	OHX	6	2024	7/7	0.94	0.44	103,103,103,103	0
91	MG	6	2095	1/1	0.94	0.45	55,55,55,55	0
90	OHX	1	3674	7/7	0.94	0.35	61,61,61,61	0
90	OHX	1	3679	7/7	0.94	0.31	67,67,67,67	0
90	OHX	2	1915	7/7	0.94	0.15	99,99,99,99	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	4158	1/1	0.94	0.21	57,57,57,57	0
90	OHX	6	2032	7/7	0.94	0.28	92,92,92,92	0
90	OHX	2	1999	7/7	0.94	0.38	106,106,106,106	0
90	OHX	2	2003	7/7	0.94	0.27	100,100,100,100	0
91	MG	1	4094	1/1	0.94	0.48	37,37,37,37	0
90	OHX	2	1975	7/7	0.94	0.15	77,77,77,77	0
90	OHX	C3	201	7/7	0.94	0.23	96,96,96,96	0
91	MG	5	3793	1/1	0.94	0.28	62,62,62,62	0
91	MG	5	4167	1/1	0.94	0.54	33,33,33,33	0
90	OHX	2	1926	7/7	0.94	0.16	91,91,91,91	0
91	MG	5	4169	1/1	0.94	0.45	47,47,47,47	0
91	MG	1	4099	1/1	0.94	0.76	45,45,45,45	0
91	MG	5	3797	1/1	0.94	0.20	38,38,38,38	0
90	OHX	2	1978	7/7	0.94	0.28	103,103,103,103	0
91	MG	1	3846	1/1	0.94	0.30	33,33,33,33	0
91	MG	1	3973	1/1	0.94	0.41	47,47,47,47	0
91	MG	6	2110	1/1	0.94	0.21	91,91,91,91	0
91	MG	5	3804	1/1	0.94	0.52	39,39,39,39	0
91	MG	7	214	1/1	0.94	0.44	47,47,47,47	0
90	OHX	1	3488	7/7	0.94	0.23	47,47,47,47	0
90	OHX	1	3704	7/7	0.94	0.43	49,49,49,49	0
91	MG	1	3851	1/1	0.94	0.72	36,36,36,36	0
91	MG	1	3734	1/1	0.94	0.49	53,53,53,53	0
90	OHX	2	1950	7/7	0.94	0.31	101,101,101,101	0
91	MG	5	4002	1/1	0.94	0.33	43,43,43,43	0
91	MG	2	2071	1/1	0.94	0.55	79,79,79,79	0
90	OHX	6	2050	7/7	0.94	0.47	68,68,68,68	0
91	MG	1	4114	1/1	0.94	0.36	34,34,34,34	0
90	OHX	1	3709	7/7	0.94	0.52	47,47,47,47	0
91	MG	1	3739	1/1	0.94	0.45	33,33,33,33	0
91	MG	5	4009	1/1	0.94	0.76	43,43,43,43	0
91	MG	6	2122	1/1	0.94	0.17	74,74,74,74	0
90	OHX	1	3548	7/7	0.94	0.18	91,91,91,91	0
91	MG	8	222	1/1	0.94	0.37	43,43,43,43	0
90	OHX	1	3718	7/7	0.94	0.43	83,83,83,83	0
91	MG	1	4123	1/1	0.94	0.40	46,46,46,46	0
90	OHX	1	3719	7/7	0.94	0.38	65,65,65,65	0
91	MG	1	3988	1/1	0.94	0.70	59,59,59,59	0
90	OHX	2	1982	7/7	0.94	0.26	94,94,94,94	0
90	OHX	1	3559	7/7	0.94	0.36	54,54,54,54	0
91	MG	6	2131	1/1	0.94	0.49	60,60,60,60	0
91	MG	l2	302	1/1	0.94	0.34	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3722	7/7	0.94	0.42	76,76,76,76	0
91	MG	2	2082	1/1	0.94	0.49	74,74,74,74	0
91	MG	2	2083	1/1	0.94	0.65	83,83,83,83	0
90	OHX	1	3724	7/7	0.94	0.35	75,75,75,75	0
91	MG	5	3839	1/1	0.94	0.25	35,35,35,35	0
90	OHX	5	3518	7/7	0.94	0.16	78,78,78,78	0
90	OHX	1	3726	7/7	0.94	0.42	69,69,69,69	0
90	OHX	5	3570	7/7	0.94	0.32	61,61,61,61	0
91	MG	5	3847	1/1	0.94	0.55	33,33,33,33	0
91	MG	1	4002	1/1	0.94	0.26	41,41,41,41	0
90	OHX	5	3577	7/7	0.94	0.35	50,50,50,50	0
91	MG	1	4005	1/1	0.94	0.39	45,45,45,45	0
91	MG	5	4035	1/1	0.94	0.36	40,40,40,40	0
90	OHX	5	3596	7/7	0.94	0.25	68,68,68,68	0
91	MG	2	2091	1/1	0.94	0.43	77,77,77,77	0
91	MG	n0	202	1/1	0.94	0.33	37,37,37,37	0
91	MG	5	3859	1/1	0.94	0.50	30,30,30,30	0
91	MG	1	3760	1/1	0.94	0.43	45,45,45,45	0
91	MG	L3	401	1/1	0.94	0.71	41,41,41,41	0
90	OHX	5	3600	7/7	0.94	0.27	44,44,44,44	0
90	OHX	1	3560	7/7	0.94	0.26	60,60,60,60	0
91	MG	6	2149	1/1	0.94	0.24	73,73,73,73	0
91	MG	n9	103	1/1	0.94	0.42	34,34,34,34	0
90	OHX	1	3730	7/7	0.94	0.17	94,94,94,94	0
91	MG	1	3892	1/1	0.94	0.28	32,32,32,32	0
91	MG	5	3871	1/1	0.94	0.24	33,33,33,33	0
91	MG	5	3873	1/1	0.94	0.41	51,51,51,51	0
91	MG	1	3893	1/1	0.94	0.57	46,46,46,46	0
91	MG	1	3769	1/1	0.94	0.53	36,36,36,36	0
91	MG	5	3878	1/1	0.94	0.89	37,37,37,37	0
91	MG	P	102	1/1	0.94	0.43	39,39,39,39	0
91	MG	1	4020	1/1	0.94	0.42	39,39,39,39	0
91	MG	M5	303	1/1	0.94	0.16	37,37,37,37	0
90	OHX	5	3622	7/7	0.94	0.26	59,59,59,59	0
91	MG	5	3882	1/1	0.94	0.33	30,30,30,30	0
90	OHX	5	3625	7/7	0.94	0.33	79,79,79,79	0
91	MG	5	3886	1/1	0.94	0.35	61,61,61,61	0
90	OHX	4	220	7/7	0.94	0.39	67,67,67,67	0
91	MG	5	4067	1/1	0.94	0.44	35,35,35,35	0
90	OHX	O7	104	7/7	0.94	0.23	52,52,52,52	0
94	LEU	1	3402	8/9	0.94	0.30	39,40,40,40	0
90	OHX	6	1927	7/7	0.94	0.12	109,109,109,109	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	N3	202	1/1	0.94	0.24	51,51,51,51	0
91	MG	N5	201	1/1	0.94	0.35	43,43,43,43	0
90	OHX	1	3588	7/7	0.94	0.26	45,45,45,45	0
90	OHX	2	2041	7/7	0.94	0.42	83,83,83,83	0
91	MG	5	4038	1/1	0.95	0.46	37,37,37,37	0
90	OHX	5	3729	7/7	0.95	0.29	74,74,74,74	0
90	OHX	5	3730	7/7	0.95	0.31	97,97,97,97	0
91	MG	5	3824	1/1	0.95	0.15	45,45,45,45	0
91	MG	5	4043	1/1	0.95	0.59	41,41,41,41	0
91	MG	5	4044	1/1	0.95	0.68	47,47,47,47	0
90	OHX	5	3734	7/7	0.95	0.39	70,70,70,70	0
90	OHX	1	3678	7/7	0.95	0.33	84,84,84,84	0
90	OHX	6	2013	7/7	0.95	0.32	72,72,72,72	0
90	OHX	5	3739	7/7	0.95	0.39	55,55,55,55	0
91	MG	1	3895	1/1	0.95	0.68	37,37,37,37	0
90	OHX	5	3741	7/7	0.95	0.39	56,56,56,56	0
91	MG	1	4057	1/1	0.95	0.79	38,38,38,38	0
91	MG	1	3898	1/1	0.95	0.46	34,34,34,34	0
90	OHX	5	3744	7/7	0.95	0.21	59,59,59,59	0
90	OHX	2	1998	7/7	0.95	0.39	95,95,95,95	0
91	MG	5	4057	1/1	0.95	0.41	35,35,35,35	0
90	OHX	C7	201	7/7	0.95	0.27	106,106,106,106	0
90	OHX	D9	102	7/7	0.95	0.39	98,98,98,98	0
90	OHX	7	211	7/7	0.95	0.35	69,69,69,69	0
90	OHX	1	3688	7/7	0.95	0.34	65,65,65,65	0
90	OHX	8	214	7/7	0.95	0.37	76,76,76,76	0
91	MG	5	4063	1/1	0.95	0.21	38,38,38,38	0
91	MG	1	3907	1/1	0.95	0.23	53,53,53,53	0
91	MG	1	4071	1/1	0.95	0.65	34,34,34,34	0
90	OHX	2	1973	7/7	0.95	0.15	112,112,112,112	0
91	MG	1	3745	1/1	0.95	0.24	40,40,40,40	0
90	OHX	8	216	7/7	0.95	0.38	59,59,59,59	0
91	MG	5	3857	1/1	0.95	0.47	32,32,32,32	0
91	MG	5	3858	1/1	0.95	0.41	39,39,39,39	0
90	OHX	1	3694	7/7	0.95	0.30	73,73,73,73	0
91	MG	5	4074	1/1	0.95	0.51	47,47,47,47	0
91	MG	6	2119	1/1	0.95	0.32	59,59,59,59	0
91	MG	5	3861	1/1	0.95	0.63	39,39,39,39	0
91	MG	5	3862	1/1	0.95	0.46	35,35,35,35	0
90	OHX	8	218	7/7	0.95	0.42	60,60,60,60	0
90	OHX	1	3464	7/7	0.95	0.14	66,66,66,66	0
90	OHX	l5	302	7/7	0.95	0.37	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	4083	1/1	0.95	0.55	35,35,35,35	0
91	MG	1	4081	1/1	0.95	0.31	38,38,38,38	0
91	MG	5	4085	1/1	0.95	0.59	49,49,49,49	0
91	MG	1	3920	1/1	0.95	0.94	34,34,34,34	0
90	OHX	m0	302	7/7	0.95	0.24	68,68,68,68	0
91	MG	1	3922	1/1	0.95	0.30	34,34,34,34	0
91	MG	1	3925	1/1	0.95	0.34	39,39,39,39	0
90	OHX	1	3481	7/7	0.95	0.17	66,66,66,66	0
91	MG	5	4095	1/1	0.95	0.62	34,34,34,34	0
91	MG	5	3876	1/1	0.95	0.18	45,45,45,45	0
91	MG	1	3755	1/1	0.95	0.47	54,54,54,54	0
90	OHX	6	2026	7/7	0.95	0.55	90,90,90,90	0
91	MG	5	4099	1/1	0.95	0.45	33,33,33,33	0
91	MG	5	4101	1/1	0.95	0.74	60,60,60,60	0
90	OHX	1	3699	7/7	0.95	0.48	80,80,80,80	0
90	OHX	2	1918	7/7	0.95	0.16	83,83,83,83	0
90	OHX	2	2004	7/7	0.95	0.38	96,96,96,96	0
90	OHX	6	2033	7/7	0.95	0.42	78,78,78,78	0
91	MG	5	3884	1/1	0.95	0.43	39,39,39,39	0
91	MG	1	3761	1/1	0.95	0.50	46,46,46,46	0
90	OHX	1	3535	7/7	0.95	0.20	50,50,50,50	0
90	OHX	1	3540	7/7	0.95	0.27	66,66,66,66	0
90	OHX	2	1946	7/7	0.95	0.17	99,99,99,99	0
90	OHX	2	2036	7/7	0.95	0.43	112,112,112,112	0
90	OHX	2	2037	7/7	0.95	0.29	98,98,98,98	0
91	MG	1	3772	1/1	0.95	0.17	57,57,57,57	0
91	MG	1	3941	1/1	0.95	0.54	42,42,42,42	0
90	OHX	2	1925	7/7	0.95	0.17	85,85,85,85	0
90	OHX	1	3587	7/7	0.95	0.19	81,81,81,81	0
91	MG	5	4121	1/1	0.95	0.30	33,33,33,33	0
91	MG	5	3896	1/1	0.95	0.64	44,44,44,44	0
91	MG	5	3897	1/1	0.95	0.38	37,37,37,37	0
90	OHX	6	2045	7/7	0.95	0.38	94,94,94,94	0
91	MG	5	3899	1/1	0.95	0.32	32,32,32,32	0
90	OHX	2	1948	7/7	0.95	0.21	80,80,80,80	0
90	OHX	1	3590	7/7	0.95	0.21	92,92,92,92	0
91	MG	5	3904	1/1	0.95	0.72	32,32,32,32	0
90	OHX	2	1903	7/7	0.95	0.14	95,95,95,95	0
90	OHX	6	2051	7/7	0.95	0.41	84,84,84,84	0
90	OHX	6	2052	7/7	0.95	0.16	65,65,65,65	0
91	MG	1	4120	1/1	0.95	0.28	38,38,38,38	0
90	OHX	2	2014	7/7	0.95	0.19	107,107,107,107	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3725	7/7	0.95	0.45	87,87,87,87	0
90	OHX	2	2043	7/7	0.95	0.40	85,85,85,85	0
91	MG	6	2158	1/1	0.95	0.08	54,54,54,54	0
90	OHX	1	3603	7/7	0.95	0.36	62,62,62,62	0
91	MG	5	4143	1/1	0.95	0.44	32,32,32,32	0
91	MG	5	4144	1/1	0.95	0.17	33,33,33,33	0
90	OHX	s8	301	7/7	0.95	0.30	96,96,96,96	0
90	OHX	2	1958	7/7	0.95	0.22	109,109,109,109	0
90	OHX	3	209	7/7	0.95	0.30	84,84,84,84	0
90	OHX	3	210	7/7	0.95	0.44	85,85,85,85	0
91	MG	2	2080	1/1	0.95	0.33	82,82,82,82	0
90	OHX	4	219	7/7	0.95	0.37	69,69,69,69	0
90	OHX	5	3475	7/7	0.95	0.23	42,42,42,42	0
90	OHX	5	3497	7/7	0.95	0.20	62,62,62,62	0
91	MG	5	4155	1/1	0.95	0.25	72,72,72,72	0
91	MG	5	3931	1/1	0.95	0.41	31,31,31,31	0
90	OHX	2	2045	7/7	0.95	0.48	100,100,100,100	0
91	MG	5	3935	1/1	0.95	0.55	34,34,34,34	0
90	OHX	5	3531	7/7	0.95	0.18	84,84,84,84	0
90	OHX	5	3535	7/7	0.95	0.20	65,65,65,65	0
90	OHX	5	3542	7/7	0.95	0.23	53,53,53,53	0
90	OHX	4	221	7/7	0.95	0.33	65,65,65,65	0
90	OHX	4	223	7/7	0.95	0.35	61,61,61,61	0
91	MG	5	4165	1/1	0.95	0.27	32,32,32,32	0
90	OHX	O4	201	7/7	0.95	0.49	73,73,73,73	0
91	MG	L2	301	1/1	0.95	0.27	42,42,42,42	0
90	OHX	2	1985	7/7	0.95	0.34	98,98,98,98	0
90	OHX	5	3597	7/7	0.95	0.35	51,51,51,51	0
91	MG	5	4170	1/1	0.95	0.28	42,42,42,42	0
90	OHX	2	2018	7/7	0.95	0.40	84,84,84,84	0
90	OHX	2	1936	7/7	0.95	0.14	102,102,102,102	0
91	MG	5	3953	1/1	0.95	0.18	41,41,41,41	0
91	MG	6	2185	1/1	0.95	0.37	92,92,92,92	0
91	MG	1	3815	1/1	0.95	0.30	41,41,41,41	0
91	MG	L4	406	1/1	0.95	0.82	33,33,33,33	0
90	OHX	6	1937	7/7	0.95	0.16	81,81,81,81	0
91	MG	5	3958	1/1	0.95	0.19	39,39,39,39	0
90	OHX	1	3635	7/7	0.95	0.37	59,59,59,59	0
90	OHX	6	1949	7/7	0.95	0.22	81,81,81,81	0
91	MG	5	3963	1/1	0.95	0.13	36,36,36,36	0
90	OHX	5	3626	7/7	0.95	0.18	84,84,84,84	0
91	MG	5	3965	1/1	0.95	0.24	35,35,35,35	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	1	3821	1/1	0.95	0.33	40,40,40,40	0
91	MG	M7	203	1/1	0.95	0.27	38,38,38,38	0
90	OHX	5	3628	7/7	0.95	0.27	90,90,90,90	0
90	OHX	5	3631	7/7	0.95	0.36	51,51,51,51	0
90	OHX	5	3632	7/7	0.95	0.34	65,65,65,65	0
90	OHX	5	3633	7/7	0.95	0.53	70,70,70,70	0
91	MG	N3	201	1/1	0.95	0.57	41,41,41,41	0
90	OHX	5	3636	7/7	0.95	0.28	63,63,63,63	0
91	MG	1	3990	1/1	0.95	0.41	39,39,39,39	0
90	OHX	5	3638	7/7	0.95	0.33	56,56,56,56	0
90	OHX	5	3641	7/7	0.95	0.27	72,72,72,72	0
90	OHX	5	3643	7/7	0.95	0.30	48,48,48,48	0
90	OHX	2	1989	7/7	0.95	0.19	93,93,93,93	0
90	OHX	6	1957	7/7	0.95	0.22	72,72,72,72	0
90	OHX	6	1958	7/7	0.95	0.23	89,89,89,89	0
90	OHX	5	3657	7/7	0.95	0.32	50,50,50,50	0
90	OHX	1	3641	7/7	0.95	0.29	64,64,64,64	0
90	OHX	2	1993	7/7	0.95	0.29	96,96,96,96	0
91	MG	l3	403	1/1	0.95	0.74	31,31,31,31	0
91	MG	5	3764	1/1	0.95	0.24	34,34,34,34	0
91	MG	5	3990	1/1	0.95	0.15	50,50,50,50	0
91	MG	5	3765	1/1	0.95	0.56	31,31,31,31	0
91	MG	1	4003	1/1	0.95	0.28	39,39,39,39	0
90	OHX	5	3665	7/7	0.95	0.29	55,55,55,55	0
90	OHX	5	3666	7/7	0.95	0.28	51,51,51,51	0
90	OHX	1	3646	7/7	0.95	0.30	93,93,93,93	0
90	OHX	2	1960	7/7	0.95	0.24	100,100,100,100	0
90	OHX	2	2026	7/7	0.95	0.30	109,109,109,109	0
91	MG	2	2120	1/1	0.95	0.08	95,95,95,95	0
91	MG	1	3850	1/1	0.95	0.45	33,33,33,33	0
91	MG	5	3779	1/1	0.95	0.62	33,33,33,33	0
90	OHX	5	3678	7/7	0.95	0.41	55,55,55,55	0
91	MG	5	3781	1/1	0.95	0.17	37,37,37,37	0
90	OHX	6	1975	7/7	0.95	0.16	93,93,93,93	0
91	MG	6	2069	1/1	0.95	0.40	61,61,61,61	0
91	MG	5	4005	1/1	0.95	0.60	37,37,37,37	0
90	OHX	2	1939	7/7	0.95	0.16	92,92,92,92	0
90	OHX	1	3672	7/7	0.95	0.38	67,67,67,67	0
90	OHX	1	3673	7/7	0.95	0.44	73,73,73,73	0
90	OHX	6	1989	7/7	0.95	0.40	97,97,97,97	0
90	OHX	5	3695	7/7	0.95	0.25	92,92,92,92	0
91	MG	1	3858	1/1	0.95	0.64	32,32,32,32	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	1991	7/7	0.95	0.24	81,81,81,81	0
90	OHX	6	1993	7/7	0.95	0.22	99,99,99,99	0
91	MG	5	4016	1/1	0.95	0.32	31,31,31,31	0
90	OHX	6	1997	7/7	0.95	0.29	83,83,83,83	0
90	OHX	2	1943	7/7	0.95	0.34	101,101,101,101	0
91	MG	1	3867	1/1	0.95	0.41	44,44,44,44	0
90	OHX	5	3710	7/7	0.95	0.28	89,89,89,89	0
90	OHX	5	3713	7/7	0.95	0.22	39,39,39,39	0
90	OHX	6	1999	7/7	0.95	0.33	75,75,75,75	0
91	MG	1	4034	1/1	0.95	0.32	47,47,47,47	0
90	OHX	5	3716	7/7	0.95	0.29	84,84,84,84	0
90	OHX	6	2001	7/7	0.95	0.29	93,93,93,93	0
90	OHX	5	3719	7/7	0.95	0.34	67,67,67,67	0
90	OHX	1	3675	7/7	0.95	0.31	64,64,64,64	0
90	OHX	1	3677	7/7	0.95	0.38	54,54,54,54	0
91	MG	5	3811	1/1	0.95	0.43	44,44,44,44	0
90	OHX	6	2006	7/7	0.95	0.28	72,72,72,72	0
90	OHX	5	3724	7/7	0.95	0.44	55,55,55,55	0
90	OHX	5	3726	7/7	0.95	0.48	60,60,60,60	0
91	MG	1	3884	1/1	0.95	0.55	35,35,35,35	0
91	MG	5	3816	1/1	0.95	0.33	43,43,43,43	0
91	MG	1	4045	1/1	0.95	0.29	40,40,40,40	0
91	MG	5	3820	1/1	0.95	0.31	54,54,54,54	0
90	OHX	5	3728	7/7	0.96	0.37	49,49,49,49	0
91	MG	1	4032	1/1	0.96	0.29	47,47,47,47	0
90	OHX	1	3446	7/7	0.96	0.16	53,53,53,53	0
90	OHX	1	3602	7/7	0.96	0.27	74,74,74,74	0
90	OHX	5	3733	7/7	0.96	0.25	91,91,91,91	0
91	MG	1	3799	1/1	0.96	0.45	39,39,39,39	0
90	OHX	1	3705	7/7	0.96	0.32	74,74,74,74	0
90	OHX	2	1906	7/7	0.96	0.12	89,89,89,89	0
90	OHX	6	2020	7/7	0.96	0.34	94,94,94,94	0
90	OHX	6	2022	7/7	0.96	0.46	91,91,91,91	0
91	MG	1	3806	1/1	0.96	0.27	41,41,41,41	0
90	OHX	2	1938	7/7	0.96	0.24	79,79,79,79	0
90	OHX	5	3742	7/7	0.96	0.34	70,70,70,70	0
90	OHX	1	3713	7/7	0.96	0.38	72,72,72,72	0
91	MG	6	2157	1/1	0.96	0.24	57,57,57,57	0
90	OHX	1	3714	7/7	0.96	0.29	82,82,82,82	0
90	OHX	1	3607	7/7	0.96	0.25	63,63,63,63	0
90	OHX	1	3716	7/7	0.96	0.37	65,65,65,65	0
90	OHX	6	2028	7/7	0.96	0.30	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	8	208	7/7	0.96	0.19	57,57,57,57	0
90	OHX	6	2029	7/7	0.96	0.49	69,69,69,69	0
90	OHX	8	212	7/7	0.96	0.37	57,57,57,57	0
91	MG	1	4054	1/1	0.96	0.52	38,38,38,38	0
90	OHX	8	213	7/7	0.96	0.29	60,60,60,60	0
90	OHX	2	1972	7/7	0.96	0.27	105,105,105,105	0
90	OHX	1	3492	7/7	0.96	0.25	61,61,61,61	0
90	OHX	1	3614	7/7	0.96	0.31	77,77,77,77	0
90	OHX	6	2034	7/7	0.96	0.28	99,99,99,99	0
91	MG	6	2173	1/1	0.96	0.23	70,70,70,70	0
90	OHX	6	2035	7/7	0.96	0.45	84,84,84,84	0
90	OHX	1	3618	7/7	0.96	0.33	59,59,59,59	0
90	OHX	1	3620	7/7	0.96	0.28	70,70,70,70	0
91	MG	5	4014	1/1	0.96	0.40	42,42,42,42	0
91	MG	1	4065	1/1	0.96	0.54	44,44,44,44	0
91	MG	1	4066	1/1	0.96	0.75	38,38,38,38	0
90	OHX	1	3723	7/7	0.96	0.33	65,65,65,65	0
90	OHX	m8	201	7/7	0.96	0.35	60,60,60,60	0
90	OHX	1	3495	7/7	0.96	0.16	56,56,56,56	0
91	MG	1	4070	1/1	0.96	0.26	35,35,35,35	0
90	OHX	o7	503	7/7	0.96	0.15	59,59,59,59	0
90	OHX	1	3626	7/7	0.96	0.30	73,73,73,73	0
90	OHX	2	1997	7/7	0.96	0.26	96,96,96,96	0
90	OHX	6	2043	7/7	0.96	0.45	81,81,81,81	0
91	MG	1	3840	1/1	0.96	0.48	41,41,41,41	0
90	OHX	1	3633	7/7	0.96	0.28	66,66,66,66	0
90	OHX	1	3728	7/7	0.96	0.40	55,55,55,55	0
90	OHX	6	2046	7/7	0.96	0.34	93,93,93,93	0
90	OHX	1	3509	7/7	0.96	0.18	60,60,60,60	0
90	OHX	3	203	7/7	0.96	0.17	59,59,59,59	0
90	OHX	6	2049	7/7	0.96	0.44	81,81,81,81	0
91	MG	5	4032	1/1	0.96	0.73	34,34,34,34	0
91	MG	5	3749	1/1	0.96	0.27	36,36,36,36	0
90	OHX	3	208	7/7	0.96	0.22	81,81,81,81	0
90	OHX	1	3636	7/7	0.96	0.22	75,75,75,75	0
90	OHX	1	3527	7/7	0.96	0.34	52,52,52,52	0
90	OHX	6	2053	7/7	0.96	0.38	87,87,87,87	0
91	MG	1	4090	1/1	0.96	0.51	42,42,42,42	0
90	OHX	6	2054	7/7	0.96	0.29	89,89,89,89	0
91	MG	1	4092	1/1	0.96	0.65	33,33,33,33	0
90	OHX	4	218	7/7	0.96	0.30	57,57,57,57	0
90	OHX	1	3529	7/7	0.96	0.26	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3643	7/7	0.96	0.30	48,48,48,48	0
91	MG	2	2069	1/1	0.96	0.44	79,79,79,79	0
90	OHX	6	2058	7/7	0.96	0.30	100,100,100,100	0
90	OHX	1	3533	7/7	0.96	0.24	55,55,55,55	0
91	MG	1	3862	1/1	0.96	0.34	36,36,36,36	0
90	OHX	s4	302	7/7	0.96	0.33	90,90,90,90	0
90	OHX	4	222	7/7	0.96	0.37	66,66,66,66	0
91	MG	1	3865	1/1	0.96	0.41	31,31,31,31	0
90	OHX	2	1984	7/7	0.96	0.29	83,83,83,83	0
90	OHX	L3	403	7/7	0.96	0.20	62,62,62,62	0
91	MG	1	4107	1/1	0.96	0.35	48,48,48,48	0
90	OHX	L4	402	7/7	0.96	0.33	54,54,54,54	0
90	OHX	c8	202	7/7	0.96	0.22	96,96,96,96	0
90	OHX	d4	201	7/7	0.96	0.44	84,84,84,84	0
91	MG	1	4111	1/1	0.96	0.28	45,45,45,45	0
90	OHX	M0	301	7/7	0.96	0.28	55,55,55,55	0
90	OHX	5	3462	7/7	0.96	0.15	48,48,48,48	0
91	MG	1	3875	1/1	0.96	0.72	45,45,45,45	0
91	MG	5	3782	1/1	0.96	0.36	42,42,42,42	0
91	MG	5	3783	1/1	0.96	0.37	33,33,33,33	0
90	OHX	5	3474	7/7	0.96	0.16	47,47,47,47	0
90	OHX	M7	201	7/7	0.96	0.39	62,62,62,62	0
91	MG	1	4119	1/1	0.96	0.31	58,58,58,58	0
91	MG	1	3879	1/1	0.96	0.44	41,41,41,41	0
90	OHX	5	3476	7/7	0.96	0.14	56,56,56,56	0
91	MG	1	3881	1/1	0.96	0.30	33,33,33,33	0
90	OHX	M8	201	7/7	0.96	0.38	65,65,65,65	0
91	MG	3	211	1/1	0.96	0.28	60,60,60,60	0
91	MG	3	212	1/1	0.96	0.55	59,59,59,59	0
90	OHX	5	3501	7/7	0.96	0.15	59,59,59,59	0
90	OHX	5	3503	7/7	0.96	0.16	61,61,61,61	0
91	MG	5	4080	1/1	0.96	0.93	40,40,40,40	0
91	MG	3	217	1/1	0.96	0.50	39,39,39,39	0
90	OHX	5	3508	7/7	0.96	0.23	63,63,63,63	0
91	MG	4	202	1/1	0.96	0.33	42,42,42,42	0
90	OHX	M9	201	7/7	0.96	0.38	74,74,74,74	0
91	MG	5	3803	1/1	0.96	0.37	34,34,34,34	0
91	MG	2	2090	1/1	0.96	0.18	83,83,83,83	0
91	MG	5	4087	1/1	0.96	0.15	41,41,41,41	0
90	OHX	5	3524	7/7	0.96	0.13	75,75,75,75	0
90	OHX	5	3526	7/7	0.96	0.28	47,47,47,47	0
90	OHX	5	3527	7/7	0.96	0.25	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	4	229	1/1	0.96	0.38	36,36,36,36	0
91	MG	1	3894	1/1	0.96	0.66	42,42,42,42	0
90	OHX	5	3529	7/7	0.96	0.26	42,42,42,42	0
90	OHX	5	3530	7/7	0.96	0.28	55,55,55,55	0
90	OHX	1	3652	7/7	0.96	0.31	57,57,57,57	0
90	OHX	5	3534	7/7	0.96	0.19	53,53,53,53	0
90	OHX	1	3654	7/7	0.96	0.36	55,55,55,55	0
90	OHX	5	3536	7/7	0.96	0.25	73,73,73,73	0
90	OHX	5	3540	7/7	0.96	0.11	93,93,93,93	0
91	MG	5	3817	1/1	0.96	0.30	43,43,43,43	0
91	MG	5	3818	1/1	0.96	0.50	31,31,31,31	0
90	OHX	5	3541	7/7	0.96	0.25	57,57,57,57	0
91	MG	L2	302	1/1	0.96	0.36	42,42,42,42	0
91	MG	5	3821	1/1	0.96	0.60	55,55,55,55	0
90	OHX	6	1920	7/7	0.96	0.13	95,95,95,95	0
90	OHX	5	3551	7/7	0.96	0.23	46,46,46,46	0
91	MG	5	4113	1/1	0.96	0.49	35,35,35,35	0
90	OHX	6	1923	7/7	0.96	0.13	81,81,81,81	0
90	OHX	5	3559	7/7	0.96	0.19	79,79,79,79	0
90	OHX	5	3562	7/7	0.96	0.21	70,70,70,70	0
91	MG	5	3827	1/1	0.96	0.62	31,31,31,31	0
91	MG	L4	405	1/1	0.96	0.22	33,33,33,33	0
90	OHX	5	3569	7/7	0.96	0.27	63,63,63,63	0
90	OHX	6	1925	7/7	0.96	0.14	76,76,76,76	0
91	MG	5	3832	1/1	0.96	0.79	41,41,41,41	0
91	MG	5	4124	1/1	0.96	0.45	40,40,40,40	0
90	OHX	1	3656	7/7	0.96	0.29	50,50,50,50	0
90	OHX	5	3584	7/7	0.96	0.34	58,58,58,58	0
90	OHX	5	3586	7/7	0.96	0.31	47,47,47,47	0
91	MG	1	3918	1/1	0.96	0.58	32,32,32,32	0
90	OHX	5	3588	7/7	0.96	0.28	46,46,46,46	0
90	OHX	5	3593	7/7	0.96	0.34	74,74,74,74	0
90	OHX	5	3594	7/7	0.96	0.20	76,76,76,76	0
90	OHX	1	3657	7/7	0.96	0.39	65,65,65,65	0
91	MG	5	3845	1/1	0.96	0.65	32,32,32,32	0
90	OHX	6	1932	7/7	0.96	0.15	59,59,59,59	0
90	OHX	5	3598	7/7	0.96	0.33	68,68,68,68	0
90	OHX	1	3660	7/7	0.96	0.24	77,77,77,77	0
91	MG	N3	203	1/1	0.96	0.22	46,46,46,46	0
90	OHX	1	3661	7/7	0.96	0.38	50,50,50,50	0
90	OHX	5	3604	7/7	0.96	0.29	46,46,46,46	0
91	MG	N6	202	1/1	0.96	0.25	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	5	3606	7/7	0.96	0.34	59,59,59,59	0
90	OHX	5	3611	7/7	0.96	0.25	49,49,49,49	0
90	OHX	5	3613	7/7	0.96	0.21	71,71,71,71	0
90	OHX	5	3615	7/7	0.96	0.25	54,54,54,54	0
91	MG	N8	205	1/1	0.96	0.28	35,35,35,35	0
91	MG	1	3935	1/1	0.96	0.47	40,40,40,40	0
90	OHX	5	3616	7/7	0.96	0.39	63,63,63,63	0
90	OHX	5	3617	7/7	0.96	0.36	74,74,74,74	0
90	OHX	5	3618	7/7	0.96	0.35	68,68,68,68	0
90	OHX	6	1941	7/7	0.96	0.24	96,96,96,96	0
90	OHX	6	1942	7/7	0.96	0.14	73,73,73,73	0
90	OHX	6	1948	7/7	0.96	0.24	82,82,82,82	0
91	MG	6	2060	1/1	0.96	0.29	63,63,63,63	0
90	OHX	1	3537	7/7	0.96	0.32	66,66,66,66	0
90	OHX	5	3627	7/7	0.96	0.19	60,60,60,60	0
90	OHX	6	1951	7/7	0.96	0.14	119,119,119,119	0
90	OHX	6	1952	7/7	0.96	0.18	80,80,80,80	0
91	MG	6	2065	1/1	0.96	0.38	61,61,61,61	0
90	OHX	1	3665	7/7	0.96	0.30	87,87,87,87	0
91	MG	2	2137	1/1	0.96	0.14	85,85,85,85	0
90	OHX	2	1930	7/7	0.96	0.13	95,95,95,95	0
90	OHX	5	3634	7/7	0.96	0.30	57,57,57,57	0
90	OHX	1	3541	7/7	0.96	0.24	60,60,60,60	0
90	OHX	1	3668	7/7	0.96	0.31	63,63,63,63	0
90	OHX	1	3670	7/7	0.96	0.34	65,65,65,65	0
91	MG	5	3887	1/1	0.96	0.20	36,36,36,36	0
90	OHX	6	1961	7/7	0.96	0.32	75,75,75,75	0
90	OHX	5	3644	7/7	0.96	0.35	53,53,53,53	0
90	OHX	6	1967	7/7	0.96	0.19	78,78,78,78	0
90	OHX	1	3542	7/7	0.96	0.25	69,69,69,69	0
91	MG	D9	104	1/1	0.96	0.31	89,89,89,89	0
91	MG	1	3731	1/1	0.96	0.21	47,47,47,47	0
90	OHX	5	3648	7/7	0.96	0.34	50,50,50,50	0
91	MG	7	216	1/1	0.96	0.71	34,34,34,34	0
91	MG	7	217	1/1	0.96	0.48	33,33,33,33	0
90	OHX	6	1969	7/7	0.96	0.24	99,99,99,99	0
90	OHX	5	3655	7/7	0.96	0.22	71,71,71,71	0
90	OHX	2	2034	7/7	0.96	0.30	87,87,87,87	0
90	OHX	1	3550	7/7	0.96	0.26	75,75,75,75	0
90	OHX	5	3659	7/7	0.96	0.34	70,70,70,70	0
90	OHX	5	3663	7/7	0.96	0.34	71,71,71,71	0
91	MG	5	3901	1/1	0.96	0.77	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	1974	7/7	0.96	0.27	106,106,106,106	0
91	MG	1	3968	1/1	0.96	0.31	42,42,42,42	0
90	OHX	1	3551	7/7	0.96	0.24	60,60,60,60	0
91	MG	1	3970	1/1	0.96	0.56	37,37,37,37	0
90	OHX	6	1977	7/7	0.96	0.23	97,97,97,97	0
90	OHX	2	2000	7/7	0.96	0.28	95,95,95,95	0
91	MG	5	3911	1/1	0.96	0.74	37,37,37,37	0
91	MG	5	3912	1/1	0.96	0.35	35,35,35,35	0
90	OHX	6	1981	7/7	0.96	0.21	87,87,87,87	0
91	MG	1	3744	1/1	0.96	0.44	41,41,41,41	0
90	OHX	6	1982	7/7	0.96	0.20	96,96,96,96	0
90	OHX	5	3672	7/7	0.96	0.28	76,76,76,76	0
90	OHX	5	3677	7/7	0.96	0.33	60,60,60,60	0
90	OHX	2	2001	7/7	0.96	0.26	99,99,99,99	0
91	MG	l2	301	1/1	0.96	0.68	42,42,42,42	0
90	OHX	5	3679	7/7	0.96	0.38	67,67,67,67	0
90	OHX	2	2021	7/7	0.96	0.33	110,110,110,110	0
91	MG	1	3983	1/1	0.96	0.49	37,37,37,37	0
90	OHX	1	3681	7/7	0.96	0.26	84,84,84,84	0
91	MG	1	3752	1/1	0.96	0.17	40,40,40,40	0
91	MG	1	3753	1/1	0.96	0.19	45,45,45,45	0
91	MG	5	3927	1/1	0.96	0.60	34,34,34,34	0
90	OHX	6	1990	7/7	0.96	0.23	79,79,79,79	0
91	MG	5	3930	1/1	0.96	0.60	37,37,37,37	0
90	OHX	1	3568	7/7	0.96	0.33	63,63,63,63	0
90	OHX	5	3690	7/7	0.96	0.38	49,49,49,49	0
91	MG	m6	201	1/1	0.96	0.86	35,35,35,35	0
90	OHX	1	3570	7/7	0.96	0.28	58,58,58,58	0
91	MG	1	3991	1/1	0.96	0.32	45,45,45,45	0
90	OHX	1	3686	7/7	0.96	0.30	67,67,67,67	0
90	OHX	5	3696	7/7	0.96	0.34	70,70,70,70	0
90	OHX	5	3697	7/7	0.96	0.44	59,59,59,59	0
90	OHX	5	3698	7/7	0.96	0.30	70,70,70,70	0
90	OHX	1	3578	7/7	0.96	0.36	59,59,59,59	0
91	MG	1	3763	1/1	0.96	0.09	50,50,50,50	0
90	OHX	1	3582	7/7	0.96	0.26	53,53,53,53	0
91	MG	1	3765	1/1	0.96	0.52	47,47,47,47	0
90	OHX	5	3702	7/7	0.96	0.26	52,52,52,52	0
91	MG	5	3949	1/1	0.96	0.51	33,33,33,33	0
91	MG	5	3950	1/1	0.96	0.40	34,34,34,34	0
91	MG	n9	102	1/1	0.96	0.93	29,29,29,29	0
90	OHX	2	2022	7/7	0.96	0.26	105,105,105,105	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	5	3705	7/7	0.96	0.42	54,54,54,54	0
90	OHX	5	3707	7/7	0.96	0.47	67,67,67,67	0
90	OHX	5	3708	7/7	0.96	0.37	68,68,68,68	0
90	OHX	2	1932	7/7	0.96	0.26	76,76,76,76	0
90	OHX	2	1961	7/7	0.96	0.27	103,103,103,103	0
90	OHX	5	3711	7/7	0.96	0.35	48,48,48,48	0
90	OHX	5	3712	7/7	0.96	0.29	53,53,53,53	0
91	MG	5	3960	1/1	0.96	0.56	39,39,39,39	0
91	MG	5	3961	1/1	0.96	0.43	43,43,43,43	0
90	OHX	6	2005	7/7	0.96	0.23	79,79,79,79	0
90	OHX	5	3714	7/7	0.96	0.29	95,95,95,95	0
90	OHX	1	3698	7/7	0.96	0.34	60,60,60,60	0
90	OHX	6	2007	7/7	0.96	0.41	82,82,82,82	0
90	OHX	5	3717	7/7	0.96	0.46	48,48,48,48	0
90	OHX	6	2008	7/7	0.96	0.26	100,100,100,100	0
90	OHX	6	2009	7/7	0.96	0.29	88,88,88,88	0
90	OHX	1	3591	7/7	0.96	0.29	65,65,65,65	0
90	OHX	6	2012	7/7	0.96	0.34	76,76,76,76	0
90	OHX	2	2007	7/7	0.96	0.41	88,88,88,88	0
91	MG	1	3790	1/1	0.96	0.46	32,32,32,32	0
90	OHX	6	2014	7/7	0.96	0.30	64,64,64,64	0
90	OHX	2	1964	7/7	0.96	0.18	97,97,97,97	0
90	OHX	5	3727	7/7	0.96	0.34	71,71,71,71	0
90	OHX	5	3661	7/7	0.97	0.41	51,51,51,51	0
90	OHX	2	1935	7/7	0.97	0.13	82,82,82,82	0
90	OHX	1	3680	7/7	0.97	0.29	76,76,76,76	0
90	OHX	1	3553	7/7	0.97	0.24	63,63,63,63	0
90	OHX	1	3555	7/7	0.97	0.24	81,81,81,81	0
90	OHX	5	3667	7/7	0.97	0.24	72,72,72,72	0
90	OHX	2	1923	7/7	0.97	0.13	84,84,84,84	0
90	OHX	5	3669	7/7	0.97	0.35	50,50,50,50	0
90	OHX	1	3685	7/7	0.97	0.24	65,65,65,65	0
90	OHX	6	2004	7/7	0.97	0.24	84,84,84,84	0
90	OHX	2	1951	7/7	0.97	0.15	82,82,82,82	0
90	OHX	5	3673	7/7	0.97	0.38	56,56,56,56	0
90	OHX	5	3674	7/7	0.97	0.27	43,43,43,43	0
90	OHX	5	3676	7/7	0.97	0.30	66,66,66,66	0
90	OHX	1	3561	7/7	0.97	0.25	64,64,64,64	0
91	MG	5	3975	1/1	0.97	0.28	35,35,35,35	0
91	MG	5	3976	1/1	0.97	0.68	40,40,40,40	0
91	MG	6	2134	1/1	0.97	0.31	57,57,57,57	0
90	OHX	1	3689	7/7	0.97	0.24	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	1	4009	1/1	0.97	0.21	37,37,37,37	0
91	MG	1	4010	1/1	0.97	0.17	47,47,47,47	0
91	MG	1	4011	1/1	0.97	0.16	50,50,50,50	0
90	OHX	1	3691	7/7	0.97	0.30	80,80,80,80	0
90	OHX	5	3680	7/7	0.97	0.38	45,45,45,45	0
91	MG	5	3984	1/1	0.97	0.12	49,49,49,49	0
90	OHX	1	3562	7/7	0.97	0.22	58,58,58,58	0
90	OHX	5	3682	7/7	0.97	0.30	83,83,83,83	0
91	MG	5	3987	1/1	0.97	0.18	38,38,38,38	0
90	OHX	5	3683	7/7	0.97	0.51	72,72,72,72	0
91	MG	1	4018	1/1	0.97	0.21	36,36,36,36	0
90	OHX	5	3684	7/7	0.97	0.26	73,73,73,73	0
90	OHX	1	3563	7/7	0.97	0.25	70,70,70,70	0
90	OHX	1	3565	7/7	0.97	0.26	57,57,57,57	0
90	OHX	1	3696	7/7	0.97	0.17	46,46,46,46	0
91	MG	1	3768	1/1	0.97	0.78	36,36,36,36	0
90	OHX	1	3567	7/7	0.97	0.23	45,45,45,45	0
90	OHX	2	1977	7/7	0.97	0.23	99,99,99,99	0
90	OHX	2	1952	7/7	0.97	0.26	104,104,104,104	0
90	OHX	1	3574	7/7	0.97	0.29	57,57,57,57	0
90	OHX	1	3575	7/7	0.97	0.32	47,47,47,47	0
91	MG	1	3775	1/1	0.97	0.12	44,44,44,44	0
91	MG	1	4030	1/1	0.97	0.29	40,40,40,40	0
90	OHX	1	3577	7/7	0.97	0.25	51,51,51,51	0
90	OHX	2	1979	7/7	0.97	0.29	82,82,82,82	0
90	OHX	6	2021	7/7	0.97	0.39	84,84,84,84	0
90	OHX	5	3701	7/7	0.97	0.18	50,50,50,50	0
90	OHX	1	3580	7/7	0.97	0.17	79,79,79,79	0
90	OHX	1	3581	7/7	0.97	0.22	53,53,53,53	0
90	OHX	5	3704	7/7	0.97	0.39	59,59,59,59	0
90	OHX	2	2016	7/7	0.97	0.30	84,84,84,84	0
90	OHX	1	3710	7/7	0.97	0.29	56,56,56,56	0
90	OHX	1	3712	7/7	0.97	0.44	58,58,58,58	0
91	MG	6	2168	1/1	0.97	0.22	57,57,57,57	0
90	OHX	1	3583	7/7	0.97	0.41	78,78,78,78	0
90	OHX	2	1953	7/7	0.97	0.26	83,83,83,83	0
90	OHX	2	1981	7/7	0.97	0.19	75,75,75,75	0
91	MG	1	4044	1/1	0.97	0.44	35,35,35,35	0
90	OHX	6	2030	7/7	0.97	0.30	74,74,74,74	0
91	MG	1	3791	1/1	0.97	0.38	35,35,35,35	0
90	OHX	1	3589	7/7	0.97	0.36	53,53,53,53	0
90	OHX	1	3717	7/7	0.97	0.36	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	2	2019	7/7	0.97	0.41	91,91,91,91	0
90	OHX	2	1954	7/7	0.97	0.12	89,89,89,89	0
91	MG	1	4051	1/1	0.97	0.42	33,33,33,33	0
90	OHX	2	1983	7/7	0.97	0.24	81,81,81,81	0
90	OHX	2	1955	7/7	0.97	0.24	96,96,96,96	0
90	OHX	1	3595	7/7	0.97	0.43	60,60,60,60	0
91	MG	6	2184	1/1	0.97	0.20	57,57,57,57	0
90	OHX	1	3596	7/7	0.97	0.32	56,56,56,56	0
91	MG	1	3800	1/1	0.97	0.38	32,32,32,32	0
90	OHX	1	3598	7/7	0.97	0.38	50,50,50,50	0
90	OHX	2	1956	7/7	0.97	0.24	92,92,92,92	0
90	OHX	2	1957	7/7	0.97	0.33	85,85,85,85	0
90	OHX	5	3725	7/7	0.97	0.32	90,90,90,90	0
90	OHX	1	3431	7/7	0.97	0.23	46,46,46,46	0
90	OHX	1	3440	7/7	0.97	0.21	44,44,44,44	0
90	OHX	1	3729	7/7	0.97	0.14	60,60,60,60	0
90	OHX	1	3441	7/7	0.97	0.12	55,55,55,55	0
90	OHX	1	3610	7/7	0.97	0.33	64,64,64,64	0
91	MG	1	3813	1/1	0.97	0.31	44,44,44,44	0
90	OHX	5	3731	7/7	0.97	0.36	65,65,65,65	0
91	MG	5	4042	1/1	0.97	0.17	35,35,35,35	0
90	OHX	5	3732	7/7	0.97	0.29	74,74,74,74	0
90	OHX	3	204	7/7	0.97	0.22	49,49,49,49	0
90	OHX	3	206	7/7	0.97	0.17	69,69,69,69	0
91	MG	5	4046	1/1	0.97	0.18	40,40,40,40	0
91	MG	1	4073	1/1	0.97	0.63	41,41,41,41	0
90	OHX	5	3735	7/7	0.97	0.41	81,81,81,81	0
90	OHX	3	207	7/7	0.97	0.17	68,68,68,68	0
90	OHX	1	3611	7/7	0.97	0.28	57,57,57,57	0
90	OHX	2	1988	7/7	0.97	0.30	87,87,87,87	0
91	MG	1	3823	1/1	0.97	0.30	37,37,37,37	0
90	OHX	5	3740	7/7	0.97	0.13	59,59,59,59	0
90	OHX	1	3453	7/7	0.97	0.13	59,59,59,59	0
90	OHX	4	209	7/7	0.97	0.16	55,55,55,55	0
90	OHX	5	3743	7/7	0.97	0.36	72,72,72,72	0
91	MG	1	3828	1/1	0.97	0.68	43,43,43,43	0
90	OHX	4	210	7/7	0.97	0.24	69,69,69,69	0
90	OHX	4	213	7/7	0.97	0.26	63,63,63,63	0
91	MG	5	3767	1/1	0.97	0.59	36,36,36,36	0
90	OHX	5	3747	7/7	0.97	0.15	92,92,92,92	0
91	MG	1	4089	1/1	0.97	0.55	31,31,31,31	0
91	MG	5	4064	1/1	0.97	1.04	31,31,31,31	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	4	215	7/7	0.97	0.24	72,72,72,72	0
91	MG	5	3771	1/1	0.97	0.33	38,38,38,38	0
91	MG	5	3772	1/1	0.97	0.80	46,46,46,46	0
91	MG	5	3773	1/1	0.97	0.33	33,33,33,33	0
90	OHX	7	202	7/7	0.97	0.14	52,52,52,52	0
90	OHX	7	203	7/7	0.97	0.13	48,48,48,48	0
90	OHX	7	207	7/7	0.97	0.18	59,59,59,59	0
91	MG	1	3837	1/1	0.97	0.58	39,39,39,39	0
91	MG	1	4095	1/1	0.97	0.10	52,52,52,52	0
90	OHX	7	208	7/7	0.97	0.27	61,61,61,61	0
91	MG	5	4076	1/1	0.97	0.29	61,61,61,61	0
90	OHX	4	217	7/7	0.97	0.38	48,48,48,48	0
90	OHX	2	1908	7/7	0.97	0.10	95,95,95,95	0
91	MG	1	3841	1/1	0.97	0.38	33,33,33,33	0
90	OHX	8	205	7/7	0.97	0.17	56,56,56,56	0
90	OHX	8	207	7/7	0.97	0.15	75,75,75,75	0
90	OHX	1	3616	7/7	0.97	0.11	131,131,131,131	0
91	MG	5	3787	1/1	0.97	0.36	32,32,32,32	0
90	OHX	8	209	7/7	0.97	0.34	56,56,56,56	0
91	MG	1	4104	1/1	0.97	0.48	54,54,54,54	0
90	OHX	8	210	7/7	0.97	0.21	66,66,66,66	0
91	MG	1	3848	1/1	0.97	0.36	34,34,34,34	0
90	OHX	1	3617	7/7	0.97	0.37	68,68,68,68	0
91	MG	5	3794	1/1	0.97	0.30	37,37,37,37	0
91	MG	5	4090	1/1	0.97	0.17	37,37,37,37	0
90	OHX	1	3468	7/7	0.97	0.13	56,56,56,56	0
90	OHX	1	3471	7/7	0.97	0.11	62,62,62,62	0
90	OHX	1	3623	7/7	0.97	0.23	81,81,81,81	0
90	OHX	1	3624	7/7	0.97	0.25	69,69,69,69	0
90	OHX	1	3474	7/7	0.97	0.14	51,51,51,51	0
90	OHX	1	3475	7/7	0.97	0.17	62,62,62,62	0
90	OHX	5	3443	7/7	0.97	0.16	51,51,51,51	0
91	MG	1	4116	1/1	0.97	0.21	76,76,76,76	0
90	OHX	5	3455	7/7	0.97	0.24	41,41,41,41	0
90	OHX	l5	301	7/7	0.97	0.20	77,77,77,77	0
90	OHX	5	3461	7/7	0.97	0.13	44,44,44,44	0
91	MG	5	4105	1/1	0.97	0.33	34,34,34,34	0
90	OHX	l9	201	7/7	0.97	0.24	60,60,60,60	0
90	OHX	M5	302	7/7	0.97	0.27	61,61,61,61	0
91	MG	1	4122	1/1	0.97	0.27	37,37,37,37	0
91	MG	5	4109	1/1	0.97	0.19	49,49,49,49	0
90	OHX	m0	304	7/7	0.97	0.37	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	5	3468	7/7	0.97	0.12	63,63,63,63	0
90	OHX	5	3470	7/7	0.97	0.14	53,53,53,53	0
90	OHX	5	3473	7/7	0.97	0.19	46,46,46,46	0
91	MG	3	214	1/1	0.97	0.45	59,59,59,59	0
90	OHX	1	3476	7/7	0.97	0.18	59,59,59,59	0
90	OHX	2	1990	7/7	0.97	0.29	99,99,99,99	0
90	OHX	1	3484	7/7	0.97	0.10	78,78,78,78	0
90	OHX	5	3477	7/7	0.97	0.14	56,56,56,56	0
90	OHX	5	3490	7/7	0.97	0.18	64,64,64,64	0
90	OHX	5	3494	7/7	0.97	0.19	57,57,57,57	0
90	OHX	2	1991	7/7	0.97	0.35	96,96,96,96	0
91	MG	5	4123	1/1	0.97	0.22	39,39,39,39	0
90	OHX	5	3498	7/7	0.97	0.17	50,50,50,50	0
90	OHX	5	3500	7/7	0.97	0.20	63,63,63,63	0
90	OHX	2	2029	7/7	0.97	0.34	79,79,79,79	0
90	OHX	O9	101	7/7	0.97	0.41	49,49,49,49	0
90	OHX	6	1902	7/7	0.97	0.13	91,91,91,91	0
90	OHX	5	3511	7/7	0.97	0.21	42,42,42,42	0
90	OHX	5	3515	7/7	0.97	0.20	47,47,47,47	0
90	OHX	6	1905	7/7	0.97	0.11	73,73,73,73	0
91	MG	5	3830	1/1	0.97	0.31	35,35,35,35	0
91	MG	1	3885	1/1	0.97	0.22	53,53,53,53	0
90	OHX	6	1907	7/7	0.97	0.14	77,77,77,77	0
90	OHX	5	3525	7/7	0.97	0.17	58,58,58,58	0
91	MG	1	3888	1/1	0.97	0.77	39,39,39,39	0
91	MG	5	4138	1/1	0.97	0.18	43,43,43,43	0
91	MG	5	3835	1/1	0.97	0.41	34,34,34,34	0
90	OHX	6	1914	7/7	0.97	0.14	61,61,61,61	0
90	OHX	6	1919	7/7	0.97	0.17	74,74,74,74	0
90	OHX	1	3638	7/7	0.97	0.32	67,67,67,67	0
90	OHX	6	1921	7/7	0.97	0.19	64,64,64,64	0
91	MG	5	3841	1/1	0.97	0.59	43,43,43,43	0
90	OHX	1	3639	7/7	0.97	0.38	63,63,63,63	0
91	MG	L4	401	1/1	0.97	0.37	37,37,37,37	0
90	OHX	5	3533	7/7	0.97	0.22	51,51,51,51	0
90	OHX	1	3640	7/7	0.97	0.31	70,70,70,70	0
90	OHX	2	1917	7/7	0.97	0.16	83,83,83,83	0
90	OHX	6	1928	7/7	0.97	0.16	105,105,105,105	0
90	OHX	5	3537	7/7	0.97	0.19	73,73,73,73	0
91	MG	5	3852	1/1	0.97	0.61	31,31,31,31	0
91	MG	L7	302	1/1	0.97	0.20	37,37,37,37	0
91	MG	5	4157	1/1	0.97	0.44	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	2	2079	1/1	0.97	0.41	85,85,85,85	0
90	OHX	2	1941	7/7	0.97	0.26	93,93,93,93	0
90	OHX	1	3644	7/7	0.97	0.36	61,61,61,61	0
90	OHX	6	1933	7/7	0.97	0.13	98,98,98,98	0
90	OHX	5	3547	7/7	0.97	0.28	61,61,61,61	0
90	OHX	5	3548	7/7	0.97	0.27	49,49,49,49	0
90	OHX	5	3549	7/7	0.97	0.15	79,79,79,79	0
91	MG	M7	206	1/1	0.97	0.63	37,37,37,37	0
90	OHX	5	3550	7/7	0.97	0.31	49,49,49,49	0
91	MG	5	3864	1/1	0.97	0.54	39,39,39,39	0
90	OHX	6	1935	7/7	0.97	0.17	68,68,68,68	0
90	OHX	1	3502	7/7	0.97	0.22	46,46,46,46	0
90	OHX	5	3555	7/7	0.97	0.32	55,55,55,55	0
90	OHX	5	3556	7/7	0.97	0.23	83,83,83,83	0
90	OHX	5	3557	7/7	0.97	0.20	78,78,78,78	0
91	MG	1	3917	1/1	0.97	0.60	32,32,32,32	0
90	OHX	5	3558	7/7	0.97	0.31	59,59,59,59	0
90	OHX	1	3504	7/7	0.97	0.17	64,64,64,64	0
91	MG	5	3875	1/1	0.97	0.43	34,34,34,34	0
90	OHX	6	1940	7/7	0.97	0.16	59,59,59,59	0
90	OHX	5	3568	7/7	0.97	0.23	62,62,62,62	0
91	MG	1	3924	1/1	0.97	0.30	42,42,42,42	0
90	OHX	1	3648	7/7	0.97	0.35	65,65,65,65	0
90	OHX	1	3650	7/7	0.97	0.22	57,57,57,57	0
90	OHX	5	3572	7/7	0.97	0.27	54,54,54,54	0
90	OHX	5	3575	7/7	0.97	0.35	65,65,65,65	0
91	MG	5	3883	1/1	0.97	0.43	32,32,32,32	0
90	OHX	6	1943	7/7	0.97	0.15	102,102,102,102	0
91	MG	7	222	1/1	0.97	0.31	35,35,35,35	0
90	OHX	5	3578	7/7	0.97	0.17	63,63,63,63	0
90	OHX	5	3579	7/7	0.97	0.34	53,53,53,53	0
91	MG	O7	106	1/1	0.97	0.14	46,46,46,46	0
90	OHX	5	3580	7/7	0.97	0.44	55,55,55,55	0
90	OHX	6	1946	7/7	0.97	0.16	79,79,79,79	0
90	OHX	1	3651	7/7	0.97	0.30	64,64,64,64	0
90	OHX	1	3508	7/7	0.97	0.12	67,67,67,67	0
91	MG	2	2107	1/1	0.97	0.34	81,81,81,81	0
90	OHX	5	3591	7/7	0.97	0.28	62,62,62,62	0
90	OHX	5	3592	7/7	0.97	0.22	54,54,54,54	0
90	OHX	1	3653	7/7	0.97	0.37	60,60,60,60	0
90	OHX	2	1942	7/7	0.97	0.28	84,84,84,84	0
90	OHX	1	3655	7/7	0.97	0.27	74,74,74,74	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	1954	7/7	0.97	0.12	116,116,116,116	0
90	OHX	6	1956	7/7	0.97	0.14	79,79,79,79	0
90	OHX	5	3599	7/7	0.97	0.17	83,83,83,83	0
90	OHX	1	3517	7/7	0.97	0.21	57,57,57,57	0
90	OHX	1	3522	7/7	0.97	0.18	58,58,58,58	0
90	OHX	1	3658	7/7	0.97	0.28	73,73,73,73	0
91	MG	l2	303	1/1	0.97	1.01	44,44,44,44	0
90	OHX	5	3605	7/7	0.97	0.29	61,61,61,61	0
90	OHX	1	3525	7/7	0.97	0.21	77,77,77,77	0
90	OHX	2	1963	7/7	0.97	0.27	73,73,73,73	0
90	OHX	6	1964	7/7	0.97	0.23	62,62,62,62	0
90	OHX	6	1965	7/7	0.97	0.27	77,77,77,77	0
90	OHX	6	1966	7/7	0.97	0.29	69,69,69,69	0
90	OHX	1	3662	7/7	0.97	0.28	71,71,71,71	0
91	MG	m0	301	1/1	0.97	0.32	36,36,36,36	0
90	OHX	2	1927	7/7	0.97	0.15	85,85,85,85	0
91	MG	5	3915	1/1	0.97	0.59	36,36,36,36	0
90	OHX	1	3664	7/7	0.97	0.31	66,66,66,66	0
90	OHX	5	3620	7/7	0.97	0.24	76,76,76,76	0
90	OHX	2	1965	7/7	0.97	0.18	84,84,84,84	0
90	OHX	5	3623	7/7	0.97	0.26	58,58,58,58	0
90	OHX	5	3624	7/7	0.97	0.35	53,53,53,53	0
90	OHX	2	1967	7/7	0.97	0.16	85,85,85,85	0
90	OHX	1	3536	7/7	0.97	0.29	61,61,61,61	0
91	MG	6	2090	1/1	0.97	0.27	56,56,56,56	0
91	MG	n0	201	1/1	0.97	0.49	37,37,37,37	0
90	OHX	2	1968	7/7	0.97	0.37	86,86,86,86	0
90	OHX	1	3669	7/7	0.97	0.27	60,60,60,60	0
91	MG	5	3926	1/1	0.97	0.77	32,32,32,32	0
90	OHX	5	3629	7/7	0.97	0.35	53,53,53,53	0
90	OHX	6	1978	7/7	0.97	0.26	90,90,90,90	0
90	OHX	6	1979	7/7	0.97	0.27	62,62,62,62	0
90	OHX	2	1944	7/7	0.97	0.18	83,83,83,83	0
91	MG	5	3932	1/1	0.97	0.76	41,41,41,41	0
90	OHX	1	3671	7/7	0.97	0.16	60,60,60,60	0
91	MG	1	3971	1/1	0.97	0.18	44,44,44,44	0
90	OHX	5	3635	7/7	0.97	0.33	46,46,46,46	0
90	OHX	2	1911	7/7	0.97	0.09	98,98,98,98	0
91	MG	5	3938	1/1	0.97	0.72	34,34,34,34	0
90	OHX	5	3637	7/7	0.97	0.30	41,41,41,41	0
91	MG	1	3975	1/1	0.97	0.20	53,53,53,53	0
91	MG	5	3941	1/1	0.97	0.17	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	1983	7/7	0.97	0.19	89,89,89,89	0
90	OHX	6	1986	7/7	0.97	0.27	77,77,77,77	0
91	MG	5	3944	1/1	0.97	0.49	35,35,35,35	0
90	OHX	2	2040	7/7	0.97	0.26	97,97,97,97	0
92	ZN	D9	101	1/1	0.97	0.07	90,90,90,90	0
90	OHX	1	3544	7/7	0.97	0.15	77,77,77,77	0
90	OHX	2	1931	7/7	0.97	0.33	95,95,95,95	0
90	OHX	1	3676	7/7	0.97	0.31	67,67,67,67	0
90	OHX	2	2006	7/7	0.97	0.32	98,98,98,98	0
90	OHX	6	1992	7/7	0.97	0.28	88,88,88,88	0
90	OHX	5	3652	7/7	0.97	0.32	59,59,59,59	0
90	OHX	5	3654	7/7	0.97	0.42	62,62,62,62	0
90	OHX	2	1921	7/7	0.97	0.26	97,97,97,97	0
90	OHX	6	1994	7/7	0.97	0.32	98,98,98,98	0
90	OHX	6	1995	7/7	0.97	0.36	79,79,79,79	0
90	OHX	6	1996	7/7	0.97	0.36	78,78,78,78	0
90	OHX	5	3660	7/7	0.97	0.43	58,58,58,58	0
90	OHX	1	3477	7/7	0.98	0.17	51,51,51,51	0
91	MG	6	2126	1/1	0.98	0.49	62,62,62,62	0
90	OHX	1	3584	7/7	0.98	0.21	80,80,80,80	0
90	OHX	1	3706	7/7	0.98	0.09	97,97,97,97	0
90	OHX	1	3585	7/7	0.98	0.20	74,74,74,74	0
90	OHX	1	3708	7/7	0.98	0.32	60,60,60,60	0
90	OHX	1	3586	7/7	0.98	0.23	46,46,46,46	0
90	OHX	1	3479	7/7	0.98	0.12	67,67,67,67	0
90	OHX	1	3711	7/7	0.98	0.36	58,58,58,58	0
90	OHX	6	2011	7/7	0.98	0.38	72,72,72,72	0
90	OHX	1	3480	7/7	0.98	0.12	48,48,48,48	0
90	OHX	2	1934	7/7	0.98	0.26	94,94,94,94	0
90	OHX	1	3482	7/7	0.98	0.14	57,57,57,57	0
90	OHX	2	2008	7/7	0.98	0.14	106,106,106,106	0
90	OHX	5	3639	7/7	0.98	0.29	58,58,58,58	0
90	OHX	5	3640	7/7	0.98	0.29	59,59,59,59	0
90	OHX	1	3592	7/7	0.98	0.20	86,86,86,86	0
90	OHX	5	3642	7/7	0.98	0.36	49,49,49,49	0
90	OHX	1	3485	7/7	0.98	0.14	69,69,69,69	0
90	OHX	1	3487	7/7	0.98	0.12	68,68,68,68	0
90	OHX	2	1910	7/7	0.98	0.10	89,89,89,89	0
90	OHX	5	3646	7/7	0.98	0.48	63,63,63,63	0
90	OHX	1	3489	7/7	0.98	0.18	51,51,51,51	0
90	OHX	1	3597	7/7	0.98	0.17	78,78,78,78	0
90	OHX	5	3649	7/7	0.98	0.28	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	5	3650	7/7	0.98	0.28	50,50,50,50	0
90	OHX	1	3491	7/7	0.98	0.15	66,66,66,66	0
90	OHX	1	3599	7/7	0.98	0.34	58,58,58,58	0
90	OHX	1	3600	7/7	0.98	0.24	63,63,63,63	0
90	OHX	2	2010	7/7	0.98	0.25	85,85,85,85	0
91	MG	1	4016	1/1	0.98	0.40	52,52,52,52	0
90	OHX	5	3656	7/7	0.98	0.35	64,64,64,64	0
90	OHX	2	1904	7/7	0.98	0.09	83,83,83,83	0
90	OHX	1	3496	7/7	0.98	0.14	53,53,53,53	0
90	OHX	1	3497	7/7	0.98	0.17	74,74,74,74	0
91	MG	6	2160	1/1	0.98	0.38	73,73,73,73	0
90	OHX	1	3605	7/7	0.98	0.14	63,63,63,63	0
90	OHX	1	3606	7/7	0.98	0.24	62,62,62,62	0
90	OHX	5	3662	7/7	0.98	0.29	47,47,47,47	0
90	OHX	3	201	7/7	0.98	0.10	60,60,60,60	0
90	OHX	1	3498	7/7	0.98	0.14	50,50,50,50	0
90	OHX	1	3608	7/7	0.98	0.28	71,71,71,71	0
90	OHX	1	3609	7/7	0.98	0.29	66,66,66,66	0
90	OHX	1	3500	7/7	0.98	0.16	62,62,62,62	0
90	OHX	2	1937	7/7	0.98	0.16	84,84,84,84	0
90	OHX	2	1992	7/7	0.98	0.20	95,95,95,95	0
90	OHX	1	3503	7/7	0.98	0.16	75,75,75,75	0
90	OHX	4	205	7/7	0.98	0.11	49,49,49,49	0
91	MG	5	4012	1/1	0.98	0.18	35,35,35,35	0
90	OHX	4	206	7/7	0.98	0.18	51,51,51,51	0
90	OHX	6	2041	7/7	0.98	0.34	79,79,79,79	0
90	OHX	4	207	7/7	0.98	0.23	46,46,46,46	0
90	OHX	5	3675	7/7	0.98	0.28	59,59,59,59	0
91	MG	1	3771	1/1	0.98	0.24	30,30,30,30	0
90	OHX	4	208	7/7	0.98	0.14	49,49,49,49	0
90	OHX	2	1949	7/7	0.98	0.11	94,94,94,94	0
90	OHX	1	3615	7/7	0.98	0.21	64,64,64,64	0
90	OHX	4	211	7/7	0.98	0.30	56,56,56,56	0
90	OHX	4	212	7/7	0.98	0.26	53,53,53,53	0
90	OHX	1	3505	7/7	0.98	0.22	66,66,66,66	0
90	OHX	4	214	7/7	0.98	0.29	50,50,50,50	0
90	OHX	1	3507	7/7	0.98	0.24	51,51,51,51	0
90	OHX	4	216	7/7	0.98	0.22	70,70,70,70	0
90	OHX	C8	202	7/7	0.98	0.13	80,80,80,80	0
91	MG	c8	201	1/1	0.98	0.08	86,86,86,86	0
90	OHX	5	3686	7/7	0.98	0.42	58,58,58,58	0
90	OHX	1	3619	7/7	0.98	0.30	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	5	3688	7/7	0.98	0.45	59,59,59,59	0
90	OHX	2	1962	7/7	0.98	0.22	86,86,86,86	0
90	OHX	1	3621	7/7	0.98	0.28	79,79,79,79	0
91	MG	1	3787	1/1	0.98	0.41	49,49,49,49	0
90	OHX	5	3691	7/7	0.98	0.29	64,64,64,64	0
90	OHX	1	3622	7/7	0.98	0.34	54,54,54,54	0
91	MG	1	4056	1/1	0.98	0.22	34,34,34,34	0
90	OHX	5	3693	7/7	0.98	0.29	63,63,63,63	0
90	OHX	5	3694	7/7	0.98	0.34	55,55,55,55	0
91	MG	1	4059	1/1	0.98	0.08	46,46,46,46	0
90	OHX	1	3510	7/7	0.98	0.22	58,58,58,58	0
90	OHX	1	3512	7/7	0.98	0.22	48,48,48,48	0
90	OHX	L3	402	7/7	0.98	0.24	65,65,65,65	0
90	OHX	s1	301	7/7	0.98	0.14	77,77,77,77	0
90	OHX	1	3513	7/7	0.98	0.18	52,52,52,52	0
90	OHX	1	3514	7/7	0.98	0.19	56,56,56,56	0
90	OHX	L6	202	7/7	0.98	0.35	62,62,62,62	0
90	OHX	1	3627	7/7	0.98	0.25	62,62,62,62	0
91	MG	5	4049	1/1	0.98	0.19	48,48,48,48	0
90	OHX	1	3628	7/7	0.98	0.25	79,79,79,79	0
90	OHX	M6	201	7/7	0.98	0.15	54,54,54,54	0
90	OHX	1	3516	7/7	0.98	0.15	73,73,73,73	0
90	OHX	5	3706	7/7	0.98	0.49	76,76,76,76	0
90	OHX	1	3631	7/7	0.98	0.35	88,88,88,88	0
90	OHX	5	3403	7/7	0.98	0.13	43,43,43,43	0
90	OHX	5	3420	7/7	0.98	0.13	44,44,44,44	0
90	OHX	5	3429	7/7	0.98	0.13	47,47,47,47	0
90	OHX	5	3432	7/7	0.98	0.20	45,45,45,45	0
90	OHX	5	3434	7/7	0.98	0.08	46,46,46,46	0
91	MG	1	3811	1/1	0.98	0.42	40,40,40,40	0
91	MG	1	3812	1/1	0.98	0.18	47,47,47,47	0
91	MG	1	4080	1/1	0.98	0.52	33,33,33,33	0
90	OHX	1	3632	7/7	0.98	0.23	72,72,72,72	0
91	MG	5	3776	1/1	0.98	0.51	40,40,40,40	0
90	OHX	5	3445	7/7	0.98	0.12	45,45,45,45	0
90	OHX	5	3448	7/7	0.98	0.14	48,48,48,48	0
90	OHX	5	3449	7/7	0.98	0.11	58,58,58,58	0
91	MG	1	4085	1/1	0.98	0.33	39,39,39,39	0
90	OHX	5	3451	7/7	0.98	0.12	63,63,63,63	0
90	OHX	5	3454	7/7	0.98	0.13	58,58,58,58	0
91	MG	1	3819	1/1	0.98	0.22	43,43,43,43	0
91	MG	5	4072	1/1	0.98	0.32	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	2	1928	7/7	0.98	0.18	79,79,79,79	0
90	OHX	5	3720	7/7	0.98	0.27	49,49,49,49	0
90	OHX	5	3456	7/7	0.98	0.10	58,58,58,58	0
90	OHX	5	3457	7/7	0.98	0.15	57,57,57,57	0
90	OHX	5	3458	7/7	0.98	0.15	64,64,64,64	0
90	OHX	5	3460	7/7	0.98	0.09	48,48,48,48	0
91	MG	5	3790	1/1	0.98	0.41	31,31,31,31	0
90	OHX	1	3634	7/7	0.98	0.25	57,57,57,57	0
90	OHX	1	3518	7/7	0.98	0.22	46,46,46,46	0
90	OHX	5	3467	7/7	0.98	0.12	70,70,70,70	0
91	MG	1	3829	1/1	0.98	0.68	38,38,38,38	0
90	OHX	1	3520	7/7	0.98	0.16	64,64,64,64	0
90	OHX	5	3469	7/7	0.98	0.14	48,48,48,48	0
90	OHX	1	3521	7/7	0.98	0.16	62,62,62,62	0
90	OHX	5	3471	7/7	0.98	0.11	66,66,66,66	0
90	OHX	5	3472	7/7	0.98	0.10	63,63,63,63	0
90	OHX	1	3418	7/7	0.98	0.15	52,52,52,52	0
91	MG	5	3801	1/1	0.98	0.25	32,32,32,32	0
90	OHX	1	3523	7/7	0.98	0.25	59,59,59,59	0
90	OHX	1	3524	7/7	0.98	0.30	57,57,57,57	0
90	OHX	5	3736	7/7	0.98	0.29	85,85,85,85	0
90	OHX	1	3422	7/7	0.98	0.10	55,55,55,55	0
90	OHX	1	3642	7/7	0.98	0.30	77,77,77,77	0
90	OHX	5	3478	7/7	0.98	0.12	58,58,58,58	0
90	OHX	5	3479	7/7	0.98	0.10	52,52,52,52	0
91	MG	5	4100	1/1	0.98	0.28	40,40,40,40	0
90	OHX	5	3480	7/7	0.98	0.11	49,49,49,49	0
90	OHX	5	3482	7/7	0.98	0.16	57,57,57,57	0
90	OHX	5	3486	7/7	0.98	0.14	53,53,53,53	0
90	OHX	5	3488	7/7	0.98	0.15	41,41,41,41	0
90	OHX	5	3489	7/7	0.98	0.12	53,53,53,53	0
90	OHX	6	1922	7/7	0.98	0.18	60,60,60,60	0
90	OHX	1	3526	7/7	0.98	0.16	69,69,69,69	0
90	OHX	5	3495	7/7	0.98	0.28	47,47,47,47	0
90	OHX	6	1924	7/7	0.98	0.10	63,63,63,63	0
90	OHX	7	204	7/7	0.98	0.15	45,45,45,45	0
90	OHX	7	205	7/7	0.98	0.14	55,55,55,55	0
90	OHX	7	206	7/7	0.98	0.17	56,56,56,56	0
90	OHX	1	3423	7/7	0.98	0.10	61,61,61,61	0
90	OHX	5	3499	7/7	0.98	0.12	72,72,72,72	0
91	MG	3	213	1/1	0.98	0.67	39,39,39,39	0
90	OHX	7	209	7/7	0.98	0.30	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3528	7/7	0.98	0.14	79,79,79,79	0
90	OHX	1	3427	7/7	0.98	0.10	52,52,52,52	0
91	MG	1	3861	1/1	0.98	0.74	38,38,38,38	0
91	MG	5	4120	1/1	0.98	0.24	34,34,34,34	0
90	OHX	5	3502	7/7	0.98	0.18	44,44,44,44	0
90	OHX	8	206	7/7	0.98	0.22	58,58,58,58	0
90	OHX	6	1929	7/7	0.98	0.13	63,63,63,63	0
90	OHX	5	3504	7/7	0.98	0.09	52,52,52,52	0
91	MG	1	3866	1/1	0.98	0.57	40,40,40,40	0
90	OHX	5	3505	7/7	0.98	0.25	39,39,39,39	0
90	OHX	5	3506	7/7	0.98	0.24	52,52,52,52	0
90	OHX	5	3507	7/7	0.98	0.23	61,61,61,61	0
90	OHX	1	3647	7/7	0.98	0.38	55,55,55,55	0
91	MG	1	3871	1/1	0.98	0.26	41,41,41,41	0
90	OHX	5	3509	7/7	0.98	0.12	90,90,90,90	0
90	OHX	1	3530	7/7	0.98	0.17	89,89,89,89	0
91	MG	5	3840	1/1	0.98	0.20	35,35,35,35	0
90	OHX	5	3513	7/7	0.98	0.20	52,52,52,52	0
90	OHX	5	3514	7/7	0.98	0.13	85,85,85,85	0
90	OHX	1	3649	7/7	0.98	0.22	64,64,64,64	0
91	MG	1	3877	1/1	0.98	0.32	39,39,39,39	0
90	OHX	5	3517	7/7	0.98	0.15	55,55,55,55	0
90	OHX	l3	401	7/7	0.98	0.12	52,52,52,52	0
90	OHX	1	3531	7/7	0.98	0.21	55,55,55,55	0
91	MG	5	4142	1/1	0.98	0.39	34,34,34,34	0
90	OHX	5	3519	7/7	0.98	0.21	48,48,48,48	0
91	MG	5	3850	1/1	0.98	0.27	41,41,41,41	0
91	MG	5	3851	1/1	0.98	0.90	40,40,40,40	0
90	OHX	5	3520	7/7	0.98	0.20	60,60,60,60	0
90	OHX	5	3523	7/7	0.98	0.22	50,50,50,50	0
90	OHX	2	1929	7/7	0.98	0.15	83,83,83,83	0
91	MG	5	3855	1/1	0.98	0.51	31,31,31,31	0
90	OHX	6	1938	7/7	0.98	0.14	76,76,76,76	0
90	OHX	m6	202	7/7	0.98	0.12	48,48,48,48	0
90	OHX	1	3534	7/7	0.98	0.15	70,70,70,70	0
90	OHX	1	3432	7/7	0.98	0.15	55,55,55,55	0
90	OHX	o3	201	7/7	0.98	0.18	54,54,54,54	0
90	OHX	1	3433	7/7	0.98	0.13	52,52,52,52	0
91	MG	1	3891	1/1	0.98	0.46	33,33,33,33	0
90	OHX	1	3435	7/7	0.98	0.08	63,63,63,63	0
90	OHX	1	3538	7/7	0.98	0.17	54,54,54,54	0
90	OHX	5	3532	7/7	0.98	0.20	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	1945	7/7	0.98	0.18	72,72,72,72	0
90	OHX	1	3439	7/7	0.98	0.11	59,59,59,59	0
91	MG	1	3897	1/1	0.98	0.73	30,30,30,30	0
90	OHX	6	1947	7/7	0.98	0.18	71,71,71,71	0
91	MG	5	3870	1/1	0.98	0.39	33,33,33,33	0
90	OHX	2	1940	7/7	0.98	0.10	94,94,94,94	0
91	MG	5	3872	1/1	0.98	0.59	31,31,31,31	0
90	OHX	1	3659	7/7	0.98	0.36	70,70,70,70	0
90	OHX	5	3538	7/7	0.98	0.28	47,47,47,47	0
90	OHX	5	3539	7/7	0.98	0.21	55,55,55,55	0
90	OHX	2	1966	7/7	0.98	0.20	65,65,65,65	0
90	OHX	1	3543	7/7	0.98	0.15	72,72,72,72	0
91	MG	1	3905	1/1	0.98	0.41	35,35,35,35	0
90	OHX	1	3445	7/7	0.98	0.11	47,47,47,47	0
90	OHX	5	3543	7/7	0.98	0.26	45,45,45,45	0
90	OHX	5	3544	7/7	0.98	0.21	66,66,66,66	0
91	MG	1	3909	1/1	0.98	0.59	29,29,29,29	0
90	OHX	5	3545	7/7	0.98	0.27	49,49,49,49	0
90	OHX	5	3546	7/7	0.98	0.20	68,68,68,68	0
90	OHX	1	3545	7/7	0.98	0.22	68,68,68,68	0
90	OHX	1	3546	7/7	0.98	0.25	65,65,65,65	0
90	OHX	2	1914	7/7	0.98	0.12	78,78,78,78	0
91	MG	1	3915	1/1	0.98	0.54	34,34,34,34	0
90	OHX	1	3549	7/7	0.98	0.23	63,63,63,63	0
90	OHX	1	3449	7/7	0.98	0.12	56,56,56,56	0
90	OHX	5	3552	7/7	0.98	0.20	54,54,54,54	0
91	MG	1	3919	1/1	0.98	0.59	36,36,36,36	0
90	OHX	1	3450	7/7	0.98	0.11	62,62,62,62	0
90	OHX	5	3554	7/7	0.98	0.20	52,52,52,52	0
90	OHX	1	3451	7/7	0.98	0.10	65,65,65,65	0
91	MG	1	3923	1/1	0.98	0.24	41,41,41,41	0
90	OHX	6	1962	7/7	0.98	0.20	69,69,69,69	0
90	OHX	6	1963	7/7	0.98	0.16	78,78,78,78	0
90	OHX	1	3452	7/7	0.98	0.14	46,46,46,46	0
90	OHX	2	1907	7/7	0.98	0.12	93,93,93,93	0
91	MG	8	223	1/1	0.98	0.14	47,47,47,47	0
90	OHX	5	3561	7/7	0.98	0.25	60,60,60,60	0
90	OHX	1	3556	7/7	0.98	0.19	56,56,56,56	0
91	MG	5	3903	1/1	0.98	0.44	32,32,32,32	0
90	OHX	5	3563	7/7	0.98	0.24	72,72,72,72	0
90	OHX	5	3564	7/7	0.98	0.30	59,59,59,59	0
90	OHX	5	3567	7/7	0.98	0.28	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
91	MG	5	3907	1/1	0.98	0.19	31,31,31,31	0
90	OHX	1	3557	7/7	0.98	0.20	74,74,74,74	0
90	OHX	1	3558	7/7	0.98	0.16	69,69,69,69	0
91	MG	5	3910	1/1	0.98	0.43	34,34,34,34	0
90	OHX	1	3454	7/7	0.98	0.11	65,65,65,65	0
90	OHX	5	3571	7/7	0.98	0.25	61,61,61,61	0
90	OHX	1	3456	7/7	0.98	0.12	73,73,73,73	0
90	OHX	5	3573	7/7	0.98	0.21	60,60,60,60	0
90	OHX	5	3574	7/7	0.98	0.18	55,55,55,55	0
90	OHX	6	1971	7/7	0.98	0.25	55,55,55,55	0
91	MG	l7	301	1/1	0.98	0.41	34,34,34,34	0
90	OHX	6	1972	7/7	0.98	0.15	67,67,67,67	0
90	OHX	1	3458	7/7	0.98	0.09	72,72,72,72	0
90	OHX	1	3459	7/7	0.98	0.12	44,44,44,44	0
90	OHX	1	3460	7/7	0.98	0.10	58,58,58,58	0
90	OHX	5	3581	7/7	0.98	0.27	56,56,56,56	0
90	OHX	5	3582	7/7	0.98	0.18	71,71,71,71	0
90	OHX	5	3583	7/7	0.98	0.19	52,52,52,52	0
90	OHX	6	1976	7/7	0.98	0.26	58,58,58,58	0
90	OHX	5	3585	7/7	0.98	0.22	51,51,51,51	0
90	OHX	1	3564	7/7	0.98	0.19	50,50,50,50	0
90	OHX	1	3462	7/7	0.98	0.11	80,80,80,80	0
91	MG	5	3928	1/1	0.98	0.59	29,29,29,29	0
90	OHX	5	3589	7/7	0.98	0.34	47,47,47,47	0
90	OHX	5	3590	7/7	0.98	0.29	60,60,60,60	0
90	OHX	1	3566	7/7	0.98	0.18	71,71,71,71	0
90	OHX	1	3683	7/7	0.98	0.28	56,56,56,56	0
91	MG	5	3933	1/1	0.98	0.65	31,31,31,31	0
90	OHX	2	1969	7/7	0.98	0.09	87,87,87,87	0
90	OHX	1	3465	7/7	0.98	0.13	70,70,70,70	0
90	OHX	5	3595	7/7	0.98	0.29	48,48,48,48	0
90	OHX	1	3569	7/7	0.98	0.21	75,75,75,75	0
90	OHX	6	1984	7/7	0.98	0.41	87,87,87,87	0
90	OHX	6	1985	7/7	0.98	0.34	91,91,91,91	0
90	OHX	1	3687	7/7	0.98	0.42	58,58,58,58	0
90	OHX	2	2002	7/7	0.98	0.39	86,86,86,86	0
90	OHX	1	3571	7/7	0.98	0.20	64,64,64,64	0
90	OHX	5	3602	7/7	0.98	0.24	64,64,64,64	0
90	OHX	5	3603	7/7	0.98	0.30	57,57,57,57	0
90	OHX	1	3572	7/7	0.98	0.22	60,60,60,60	0
90	OHX	1	3692	7/7	0.98	0.29	69,69,69,69	0
90	OHX	1	3573	7/7	0.98	0.20	73,73,73,73	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	5	3610	7/7	0.98	0.31	45,45,45,45	0
92	ZN	D6	500	1/1	0.98	0.03	87,87,87,87	0
90	OHX	1	3469	7/7	0.98	0.16	82,82,82,82	0
90	OHX	5	3612	7/7	0.98	0.27	54,54,54,54	0
90	OHX	2	1916	7/7	0.98	0.11	84,84,84,84	0
91	MG	5	3952	1/1	0.98	0.39	41,41,41,41	0
92	ZN	d9	101	1/1	0.98	0.10	97,97,97,97	0
90	OHX	1	3576	7/7	0.98	0.14	60,60,60,60	0
90	OHX	1	3472	7/7	0.98	0.11	62,62,62,62	0
92	ZN	q3	501	1/1	0.98	0.12	55,55,55,55	0
90	OHX	1	3473	7/7	0.98	0.10	55,55,55,55	0
90	OHX	1	3579	7/7	0.98	0.18	67,67,67,67	0
90	OHX	2	1933	7/7	0.98	0.11	91,91,91,91	0
90	OHX	2	2005	7/7	0.98	0.22	84,84,84,84	0
90	OHX	5	3621	7/7	0.98	0.19	73,73,73,73	0
90	OHX	6	2000	7/7	0.98	0.22	69,69,69,69	0
90	OHX	1	3702	7/7	0.98	0.38	49,49,49,49	0
90	OHX	2	1987	7/7	0.98	0.19	94,94,94,94	0
90	OHX	q2	502	7/7	0.99	0.09	45,45,45,45	0
90	OHX	5	3630	7/7	0.99	0.25	65,65,65,65	0
91	MG	4	230	1/1	0.99	0.12	46,46,46,46	0
91	MG	1	3801	1/1	0.99	0.17	37,37,37,37	0
90	OHX	6	1917	7/7	0.99	0.09	55,55,55,55	0
90	OHX	6	1918	7/7	0.99	0.11	49,49,49,49	0
90	OHX	1	3483	7/7	0.99	0.15	72,72,72,72	0
90	OHX	1	3539	7/7	0.99	0.18	52,52,52,52	0
90	OHX	5	3481	7/7	0.99	0.09	49,49,49,49	0
90	OHX	2	1924	7/7	0.99	0.08	103,103,103,103	0
90	OHX	5	3483	7/7	0.99	0.16	43,43,43,43	0
90	OHX	5	3484	7/7	0.99	0.14	48,48,48,48	0
90	OHX	5	3485	7/7	0.99	0.20	52,52,52,52	0
90	OHX	1	3404	7/7	0.99	0.18	43,43,43,43	0
90	OHX	5	3487	7/7	0.99	0.12	47,47,47,47	0
90	OHX	1	3486	7/7	0.99	0.10	57,57,57,57	0
91	MG	sM	302	1/1	0.99	0.58	45,45,45,45	0
90	OHX	1	3405	7/7	0.99	0.13	43,43,43,43	0
90	OHX	1	3442	7/7	0.99	0.12	58,58,58,58	0
90	OHX	5	3492	7/7	0.99	0.12	48,48,48,48	0
90	OHX	5	3493	7/7	0.99	0.13	51,51,51,51	0
90	OHX	6	1926	7/7	0.99	0.19	67,67,67,67	0
90	OHX	1	3443	7/7	0.99	0.07	53,53,53,53	0
90	OHX	5	3496	7/7	0.99	0.20	71,71,71,71	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3490	7/7	0.99	0.21	53,53,53,53	0
90	OHX	1	3547	7/7	0.99	0.20	58,58,58,58	0
90	OHX	6	1930	7/7	0.99	0.14	64,64,64,64	0
91	MG	1	3992	1/1	0.99	0.38	44,44,44,44	0
90	OHX	5	3653	7/7	0.99	0.36	54,54,54,54	0
91	MG	1	3994	1/1	0.99	0.18	46,46,46,46	0
90	OHX	1	3444	7/7	0.99	0.09	66,66,66,66	0
90	OHX	1	3406	7/7	0.99	0.15	52,52,52,52	0
90	OHX	1	3493	7/7	0.99	0.16	42,42,42,42	0
90	OHX	6	1934	7/7	0.99	0.14	68,68,68,68	0
90	OHX	1	3494	7/7	0.99	0.13	67,67,67,67	0
90	OHX	6	1936	7/7	0.99	0.12	74,74,74,74	0
90	OHX	1	3408	7/7	0.99	0.12	41,41,41,41	0
90	OHX	1	3447	7/7	0.99	0.12	54,54,54,54	0
90	OHX	1	3554	7/7	0.99	0.14	70,70,70,70	0
90	OHX	3	202	7/7	0.99	0.21	54,54,54,54	0
90	OHX	5	3510	7/7	0.99	0.07	35,35,35,35	0
90	OHX	1	3448	7/7	0.99	0.07	54,54,54,54	0
90	OHX	5	3512	7/7	0.99	0.16	60,60,60,60	0
90	OHX	1	3409	7/7	0.99	0.10	39,39,39,39	0
90	OHX	3	205	7/7	0.99	0.14	69,69,69,69	0
91	MG	5	4130	1/1	0.99	0.21	32,32,32,32	0
90	OHX	6	1944	7/7	0.99	0.21	71,71,71,71	0
90	OHX	5	3516	7/7	0.99	0.23	51,51,51,51	0
90	OHX	1	3499	7/7	0.99	0.11	40,40,40,40	0
91	MG	1	3843	1/1	0.99	0.48	36,36,36,36	0
90	OHX	1	3410	7/7	0.99	0.14	48,48,48,48	0
90	OHX	1	3411	7/7	0.99	0.08	43,43,43,43	0
90	OHX	1	3412	7/7	0.99	0.08	51,51,51,51	0
90	OHX	5	3521	7/7	0.99	0.17	47,47,47,47	0
90	OHX	5	3522	7/7	0.99	0.13	61,61,61,61	0
90	OHX	1	3413	7/7	0.99	0.08	45,45,45,45	0
90	OHX	6	1950	7/7	0.99	0.15	90,90,90,90	0
90	OHX	4	203	7/7	0.99	0.12	41,41,41,41	0
90	OHX	4	204	7/7	0.99	0.12	47,47,47,47	0
90	OHX	1	3415	7/7	0.99	0.11	53,53,53,53	0
91	MG	5	3966	1/1	0.99	0.11	49,49,49,49	0
90	OHX	5	3528	7/7	0.99	0.17	42,42,42,42	0
90	OHX	1	3455	7/7	0.99	0.10	50,50,50,50	0
91	MG	5	4148	1/1	0.99	0.26	34,34,34,34	0
90	OHX	6	1955	7/7	0.99	0.09	108,108,108,108	0
90	OHX	1	3506	7/7	0.99	0.22	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3417	7/7	0.99	0.18	52,52,52,52	0
90	OHX	1	3457	7/7	0.99	0.11	53,53,53,53	0
90	OHX	2	1905	7/7	0.99	0.13	76,76,76,76	0
90	OHX	1	3420	7/7	0.99	0.11	59,59,59,59	0
90	OHX	1	3511	7/7	0.99	0.15	45,45,45,45	0
90	OHX	1	3421	7/7	0.99	0.12	57,57,57,57	0
90	OHX	1	3629	7/7	0.99	0.13	50,50,50,50	0
90	OHX	1	3461	7/7	0.99	0.10	43,43,43,43	0
90	OHX	1	3690	7/7	0.99	0.21	52,52,52,52	0
90	OHX	2	1912	7/7	0.99	0.07	93,93,93,93	0
90	OHX	1	3515	7/7	0.99	0.18	39,39,39,39	0
90	OHX	1	3463	7/7	0.99	0.11	54,54,54,54	0
90	OHX	2	1913	7/7	0.99	0.14	84,84,84,84	0
90	OHX	1	3424	7/7	0.99	0.12	55,55,55,55	0
90	OHX	1	3519	7/7	0.99	0.25	53,53,53,53	0
90	OHX	1	3466	7/7	0.99	0.14	43,43,43,43	0
90	OHX	1	3467	7/7	0.99	0.10	54,54,54,54	0
90	OHX	1	3425	7/7	0.99	0.10	50,50,50,50	0
90	OHX	1	3426	7/7	0.99	0.14	58,58,58,58	0
90	OHX	L6	201	7/7	0.99	0.16	44,44,44,44	0
90	OHX	1	3470	7/7	0.99	0.14	48,48,48,48	0
90	OHX	2	1919	7/7	0.99	0.07	73,73,73,73	0
90	OHX	M5	301	7/7	0.99	0.12	46,46,46,46	0
90	OHX	5	3404	7/7	0.99	0.14	36,36,36,36	0
90	OHX	5	3405	7/7	0.99	0.17	36,36,36,36	0
90	OHX	5	3406	7/7	0.99	0.13	38,38,38,38	0
90	OHX	5	3408	7/7	0.99	0.17	47,47,47,47	0
90	OHX	5	3409	7/7	0.99	0.12	43,43,43,43	0
90	OHX	5	3560	7/7	0.99	0.15	41,41,41,41	0
90	OHX	5	3410	7/7	0.99	0.14	45,45,45,45	0
90	OHX	5	3411	7/7	0.99	0.11	44,44,44,44	0
90	OHX	5	3413	7/7	0.99	0.14	47,47,47,47	0
90	OHX	5	3415	7/7	0.99	0.08	42,42,42,42	0
90	OHX	5	3565	7/7	0.99	0.19	55,55,55,55	0
90	OHX	5	3566	7/7	0.99	0.15	58,58,58,58	0
90	OHX	5	3416	7/7	0.99	0.11	43,43,43,43	0
90	OHX	5	3417	7/7	0.99	0.11	41,41,41,41	0
90	OHX	5	3419	7/7	0.99	0.09	50,50,50,50	0
90	OHX	1	3429	7/7	0.99	0.10	55,55,55,55	0
90	OHX	5	3421	7/7	0.99	0.09	44,44,44,44	0
90	OHX	5	3422	7/7	0.99	0.10	51,51,51,51	0
90	OHX	5	3423	7/7	0.99	0.10	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	5	3424	7/7	0.99	0.08	41,41,41,41	0
90	OHX	5	3426	7/7	0.99	0.12	51,51,51,51	0
90	OHX	5	3576	7/7	0.99	0.15	50,50,50,50	0
90	OHX	5	3427	7/7	0.99	0.06	41,41,41,41	0
90	OHX	5	3428	7/7	0.99	0.07	37,37,37,37	0
90	OHX	1	3430	7/7	0.99	0.11	43,43,43,43	0
90	OHX	5	3431	7/7	0.99	0.11	46,46,46,46	0
91	MG	5	3844	1/1	0.99	0.24	45,45,45,45	0
90	OHX	2	1920	7/7	0.99	0.07	76,76,76,76	0
90	OHX	2	1901	7/7	0.99	0.18	78,78,78,78	0
90	OHX	5	3435	7/7	0.99	0.09	64,64,64,64	0
90	OHX	5	3436	7/7	0.99	0.10	41,41,41,41	0
90	OHX	5	3437	7/7	0.99	0.09	46,46,46,46	0
90	OHX	5	3438	7/7	0.99	0.11	46,46,46,46	0
90	OHX	5	3587	7/7	0.99	0.19	44,44,44,44	0
90	OHX	5	3439	7/7	0.99	0.10	43,43,43,43	0
90	OHX	5	3440	7/7	0.99	0.08	45,45,45,45	0
90	OHX	5	3441	7/7	0.99	0.07	57,57,57,57	0
90	OHX	5	3745	7/7	0.99	0.10	70,70,70,70	0
90	OHX	5	3442	7/7	0.99	0.12	59,59,59,59	0
90	OHX	2	1922	7/7	0.99	0.07	83,83,83,83	0
90	OHX	5	3444	7/7	0.99	0.08	51,51,51,51	0
90	OHX	7	201	7/7	0.99	0.07	49,49,49,49	0
90	OHX	N9	101	7/7	0.99	0.10	42,42,42,42	0
90	OHX	5	3446	7/7	0.99	0.08	56,56,56,56	0
90	OHX	5	3447	7/7	0.99	0.09	41,41,41,41	0
90	OHX	O3	201	7/7	0.99	0.23	55,55,55,55	0
90	OHX	1	3434	7/7	0.99	0.12	58,58,58,58	0
90	OHX	5	3450	7/7	0.99	0.10	65,65,65,65	0
90	OHX	1	3532	7/7	0.99	0.15	48,48,48,48	0
90	OHX	5	3452	7/7	0.99	0.09	55,55,55,55	0
90	OHX	5	3453	7/7	0.99	0.07	91,91,91,91	0
90	OHX	1	3478	7/7	0.99	0.16	51,51,51,51	0
90	OHX	8	203	7/7	0.99	0.11	41,41,41,41	0
91	MG	1	3766	1/1	0.99	0.37	36,36,36,36	0
90	OHX	8	204	7/7	0.99	0.11	40,40,40,40	0
90	OHX	Q2	502	7/7	0.99	0.06	41,41,41,41	0
90	OHX	6	1901	7/7	0.99	0.16	59,59,59,59	0
90	OHX	2	1902	7/7	0.99	0.13	81,81,81,81	0
90	OHX	5	3607	7/7	0.99	0.23	40,40,40,40	0
90	OHX	5	3608	7/7	0.99	0.41	67,67,67,67	0
90	OHX	5	3609	7/7	0.99	0.15	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	6	1903	7/7	0.99	0.12	61,61,61,61	0
91	MG	1	4112	1/1	0.99	0.25	59,59,59,59	0
90	OHX	5	3459	7/7	0.99	0.10	46,46,46,46	0
90	OHX	6	1904	7/7	0.99	0.08	68,68,68,68	0
90	OHX	1	3436	7/7	0.99	0.10	52,52,52,52	0
91	MG	1	3945	1/1	0.99	0.10	39,39,39,39	0
90	OHX	5	3614	7/7	0.99	0.12	47,47,47,47	0
90	OHX	6	1906	7/7	0.99	0.12	60,60,60,60	0
90	OHX	5	3463	7/7	0.99	0.10	50,50,50,50	0
90	OHX	5	3464	7/7	0.99	0.06	57,57,57,57	0
90	OHX	5	3465	7/7	0.99	0.08	56,56,56,56	0
90	OHX	5	3466	7/7	0.99	0.14	45,45,45,45	0
90	OHX	1	3437	7/7	0.99	0.06	47,47,47,47	0
90	OHX	6	1908	7/7	0.99	0.12	65,65,65,65	0
90	OHX	6	1909	7/7	0.99	0.08	91,91,91,91	0
92	ZN	O7	103	1/1	0.99	0.06	39,39,39,39	0
92	ZN	Q0	500	1/1	0.99	0.11	47,47,47,47	0
92	ZN	Q2	501	1/1	0.99	0.05	51,51,51,51	0
92	ZN	Q3	501	1/1	0.99	0.06	55,55,55,55	0
92	ZN	d6	101	1/1	0.99	0.07	67,67,67,67	0
90	OHX	6	1910	7/7	0.99	0.12	62,62,62,62	0
90	OHX	m0	303	7/7	0.99	0.29	49,49,49,49	0
90	OHX	6	1911	7/7	0.99	0.08	57,57,57,57	0
92	ZN	o7	501	1/1	0.99	0.09	41,41,41,41	0
90	OHX	m5	301	7/7	0.99	0.11	48,48,48,48	0
90	OHX	m5	302	7/7	0.99	0.18	66,66,66,66	0
90	OHX	6	1912	7/7	0.99	0.10	74,74,74,74	0
90	OHX	6	1913	7/7	0.99	0.08	80,80,80,80	0
90	OHX	1	3438	7/7	0.99	0.12	56,56,56,56	0
90	OHX	n9	101	7/7	0.99	0.07	41,41,41,41	0
90	OHX	6	1915	7/7	0.99	0.08	62,62,62,62	0
90	OHX	o7	502	7/7	0.99	0.14	54,54,54,54	0
91	MG	6	2179	1/1	0.99	0.12	93,93,93,93	0
90	OHX	6	1916	7/7	0.99	0.07	70,70,70,70	0
90	OHX	1	3419	7/7	1.00	0.06	38,38,38,38	0
90	OHX	5	3418	7/7	1.00	0.11	40,40,40,40	0
90	OHX	5	3430	7/7	1.00	0.07	53,53,53,53	0
90	OHX	1	3403	7/7	1.00	0.14	37,37,37,37	0
90	OHX	1	3416	7/7	1.00	0.07	38,38,38,38	0
91	MG	5	4091	1/1	1.00	0.14	32,32,32,32	0
90	OHX	5	3433	7/7	1.00	0.05	39,39,39,39	0
92	ZN	q0	500	1/1	1.00	0.14	37,37,37,37	0

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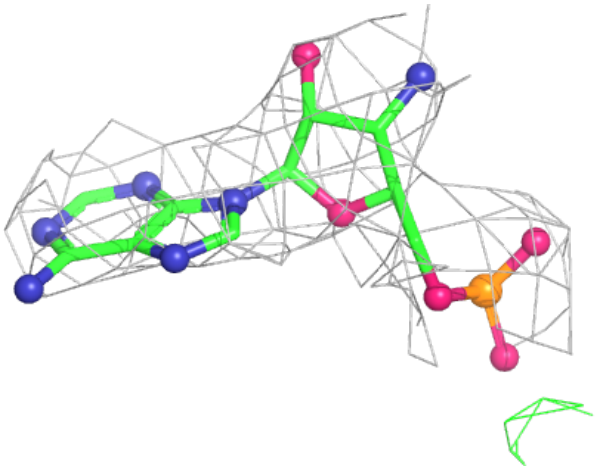
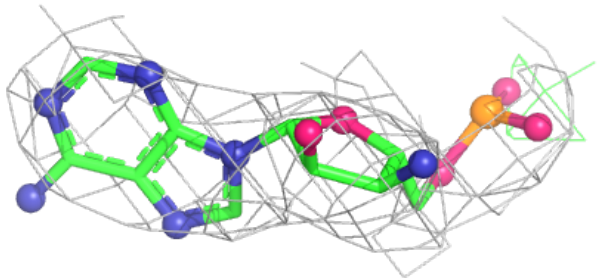
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
90	OHX	1	3407	7/7	1.00	0.10	41,41,41,41	0
91	MG	5	4094	1/1	1.00	0.11	32,32,32,32	0
90	OHX	5	3412	7/7	1.00	0.10	33,33,33,33	0
90	OHX	1	3428	7/7	1.00	0.07	47,47,47,47	0
90	OHX	5	3414	7/7	1.00	0.10	42,42,42,42	0
90	OHX	5	3425	7/7	1.00	0.06	52,52,52,52	0
90	OHX	5	3491	7/7	1.00	0.07	46,46,46,46	0
90	OHX	1	3414	7/7	1.00	0.07	47,47,47,47	0
90	OHX	5	3407	7/7	1.00	0.20	44,44,44,44	0
91	MG	5	4150	1/1	1.00	0.11	37,37,37,37	0

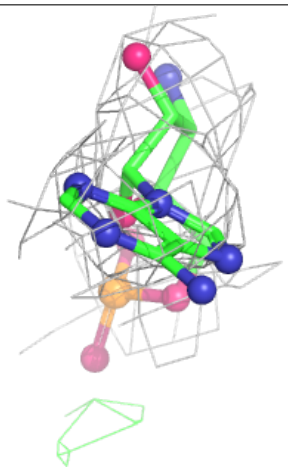
The following is a graphical depiction of the model fit to experimental electron density of all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the geometry validation Tables will also be included. Each fit is shown from different orientation to approximate a three-dimensional view.

Electron density around 8AN P 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

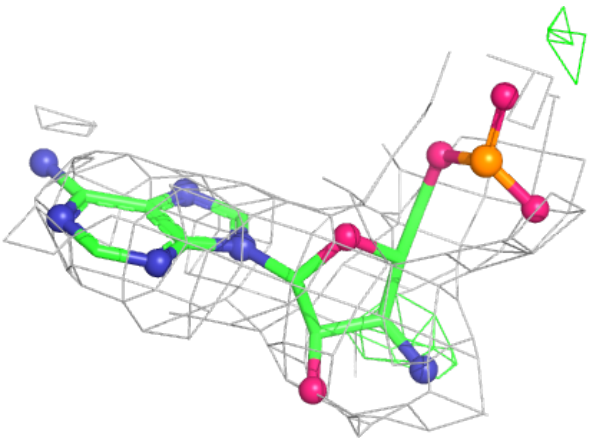


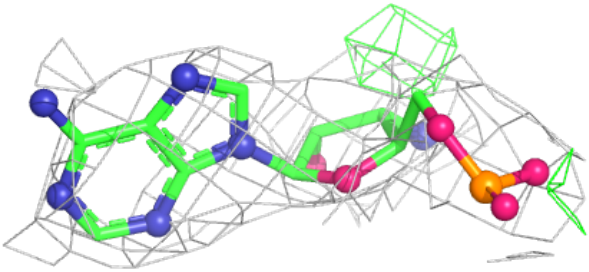


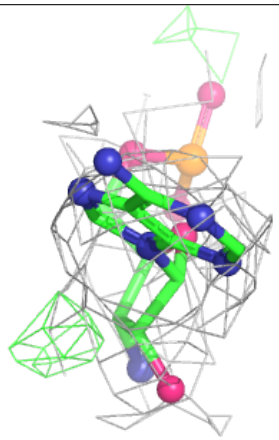


Electron density around 8AN p 101:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

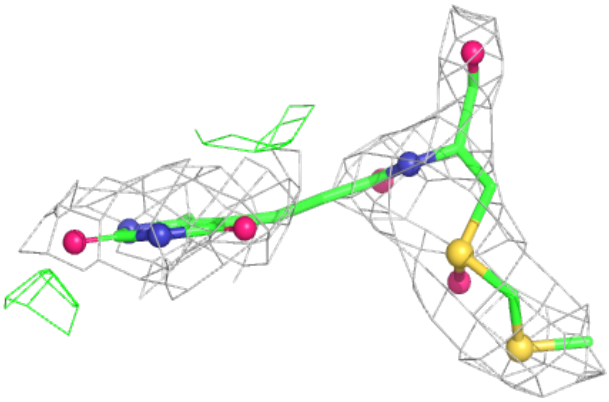


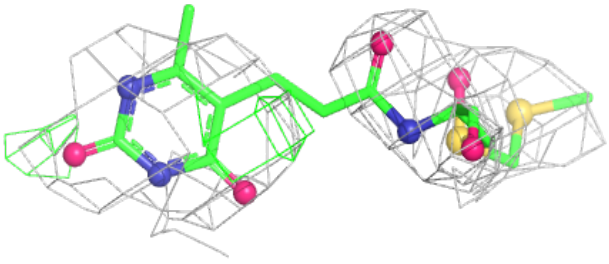


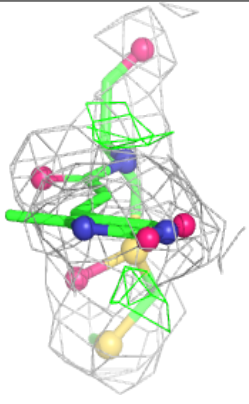


Electron density around SPS 1 4125:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

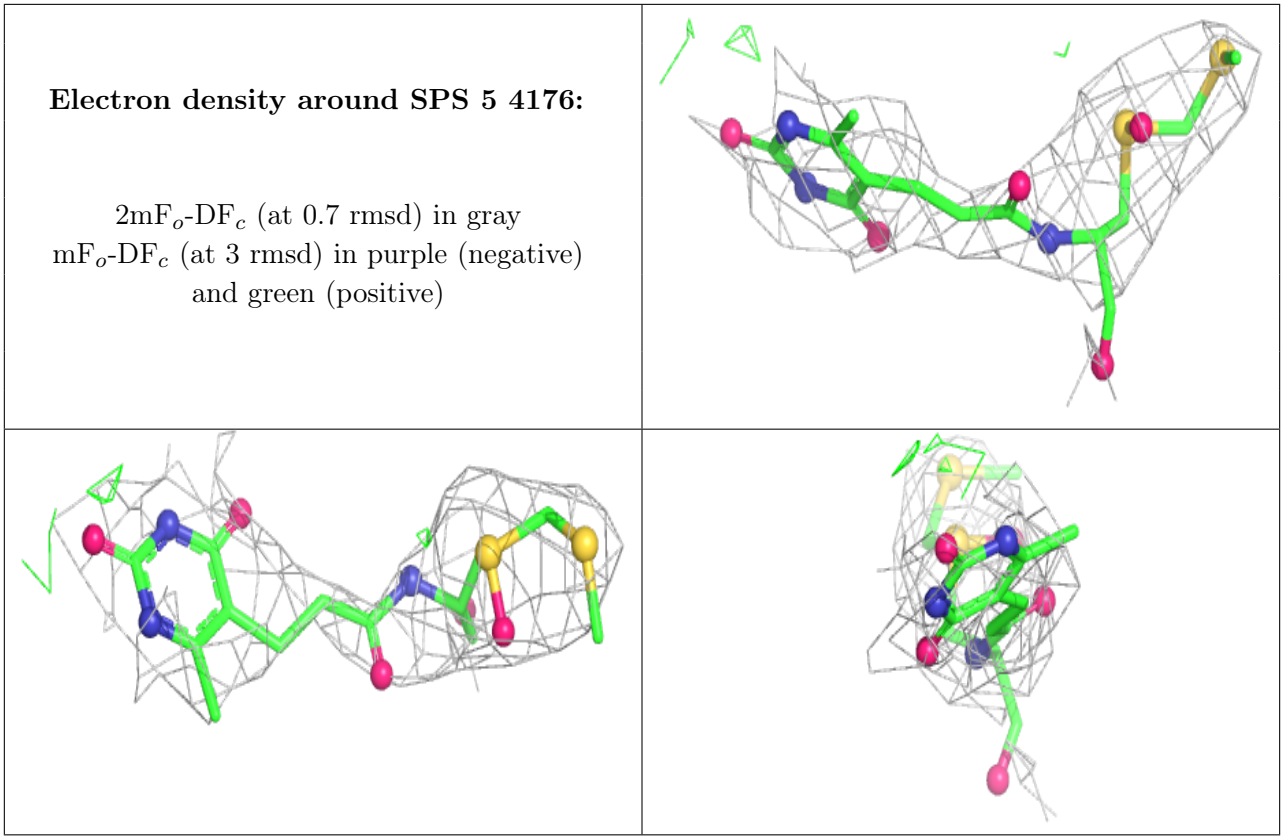






Electron density around SPS 5 4176:

$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)



6.5 Other polymers

There are no such residues in this entry.