wwPDB X-ray Structure Validation Summary Report (i)

Jan 3, 2024 – 01:00 am GMT

PDB ID	:	5DGE
Title	:	Coping with proline stalling: structural basis of hypusine-induced protein synthesis by the eukaryotic ribosome
Authors	:	Melnikov, S.; Mailliot, J.; Shin, B.-S.; Rigger, L.; Yusupova, G.; Micura, R.; Dever, T.E.; Yusupov, M.
Deposited on	:	2015-08-27
Resolution	:	3.45 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:

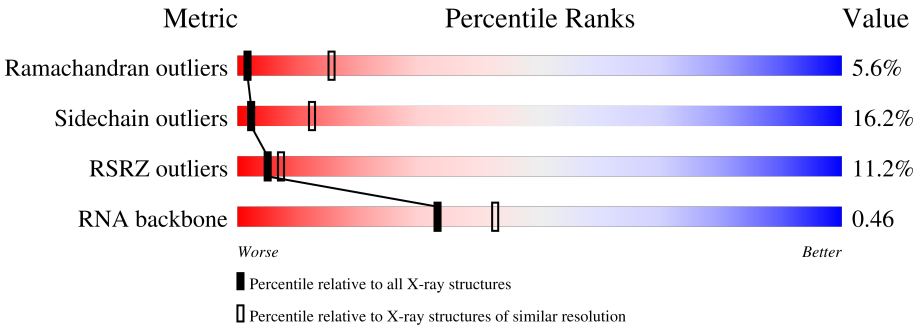
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	2.36
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac	:	5.8.0158
CCP4	:	7.0.044 (Gargrove)
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.36

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 3.45 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.



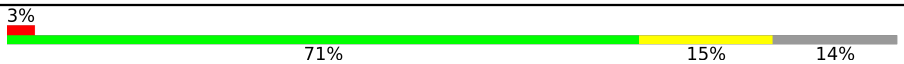
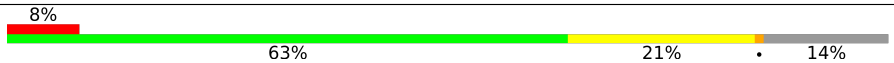
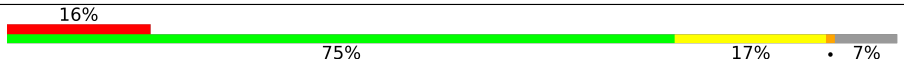
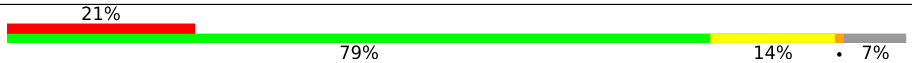
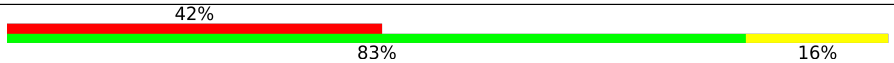
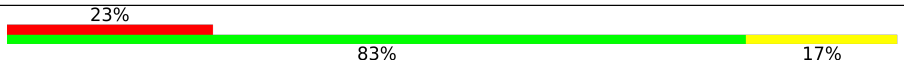
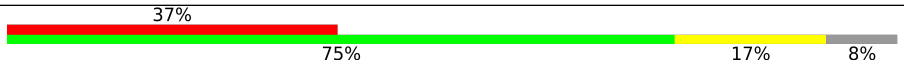
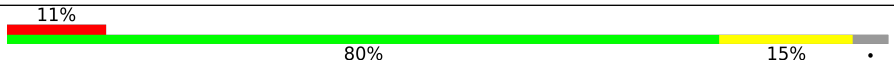
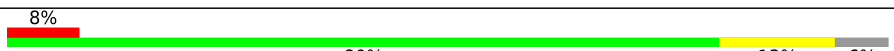
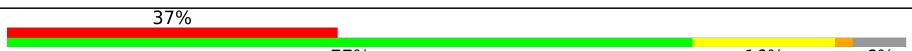
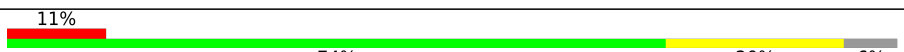
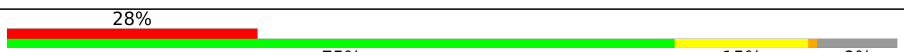
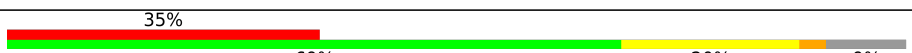
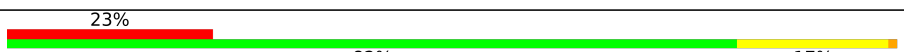
Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Ramachandran outliers	138981	1337 (3.52-3.40)
Sidechain outliers	138945	1338 (3.52-3.40)
RSRZ outliers	127900	1205 (3.52-3.40)
RNA backbone	3102	1036 (3.96-2.96)

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

Mol	Chain	Length	Quality of chain
1	2	1800	5% 72% 26%
1	6	1800	3% 73% 25%
2	S0	251	21% 67% 15% 18%
2	s0	251	6% 63% 18% 18%
3	S1	254	23% 64% 19% 16%
3	s1	254	10% 67% 19% 15%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	S2	253	
4	s2	253	
5	S3	239	
5	s3	239	
6	S4	260	
6	s4	260	
7	S5	224	
7	s5	224	
8	S6	236	
8	s6	236	
9	S7	189	
9	s7	189	
10	S8	200	
10	s8	200	
11	S9	196	
11	s9	196	
12	C0	105	
12	c0	105	
13	C1	155	
13	c1	155	
14	C2	142	
14	c2	142	
15	C3	150	
15	c3	150	
16	C4	136	

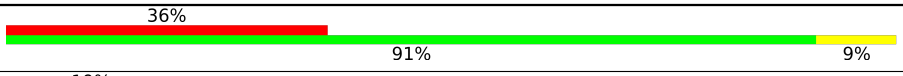
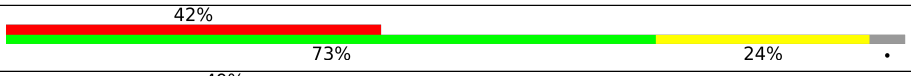
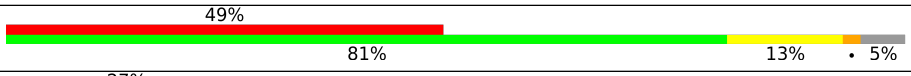
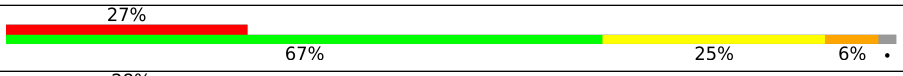
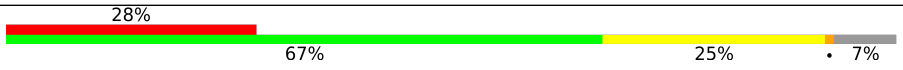
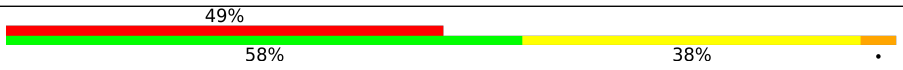
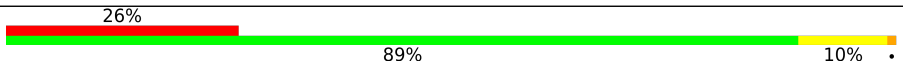
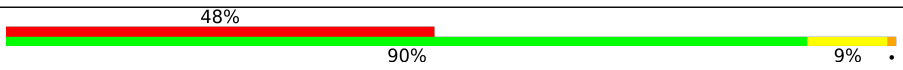
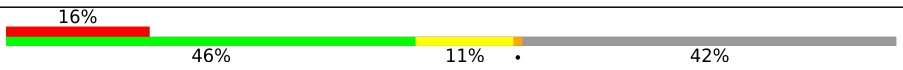
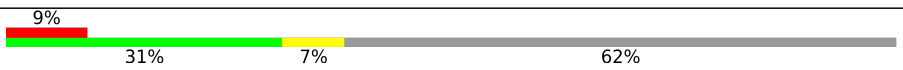
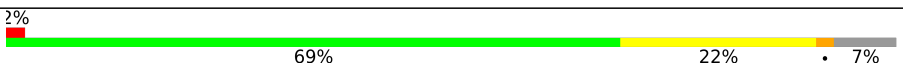
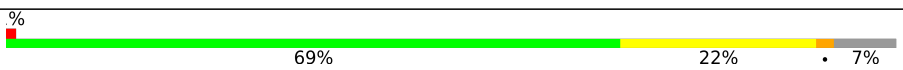
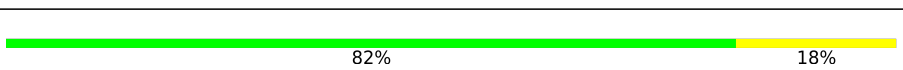
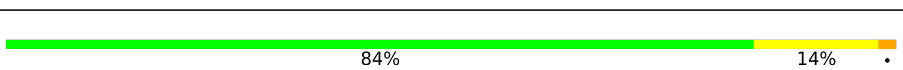
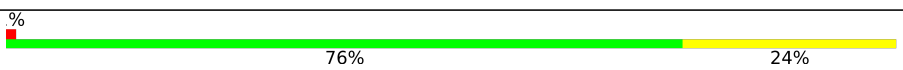
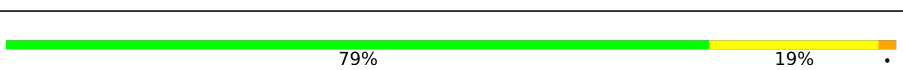
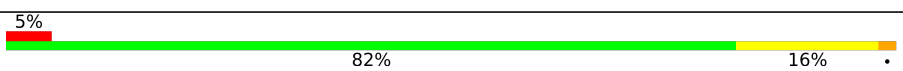
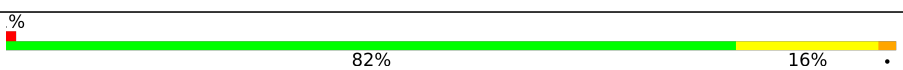
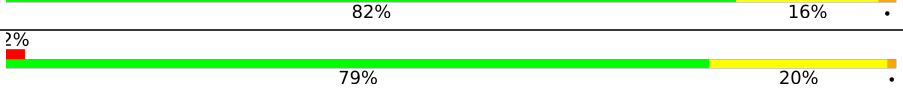
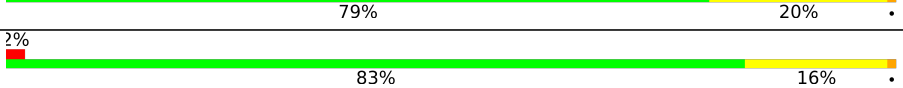
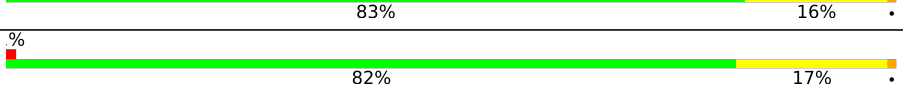
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
16	c4	136	12% 74% 17% 6%
17	C5	141	9% 74% 11% 12%
17	c5	141	23% 79% 14%
18	C6	142	53% 80% 18%
18	c6	142	35% 81% 19%
19	C7	136	16% 71% 15% 12%
19	c7	136	9% 70% 16% 14%
20	C8	145	17% 82% 15%
20	c8	145	18% 81% 18%
21	C9	143	50% 82% 17%
21	c9	143	15% 90% 10%
22	D0	120	16% 72% 18% 11%
22	d0	120	22% 72% 20% 8%
23	D1	87	14% 71% 25%
23	d1	87	78% 21%
24	D2	129	11% 81% 18%
24	d2	129	2% 84% 15%
25	D3	144	35% 77% 22%
25	d3	144	8% 85% 15%
26	D4	134	33% 84% 15%
26	d4	134	11% 79% 19%
27	D5	107	35% 50% 14% 35%
27	d5	107	25% 55% 9% 36%
28	D6	97	34% 70% 28%
28	d6	97	12% 80% 18%

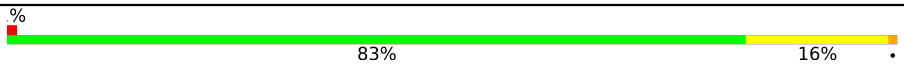
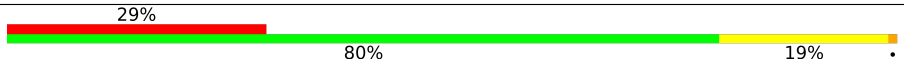
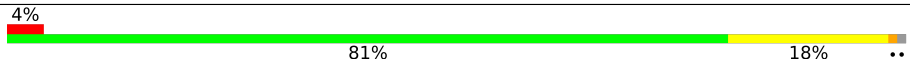
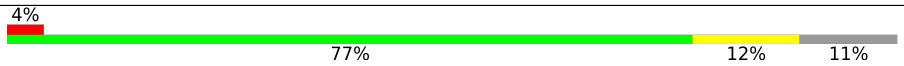
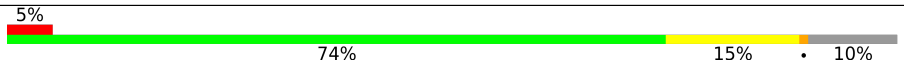
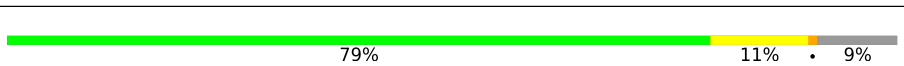
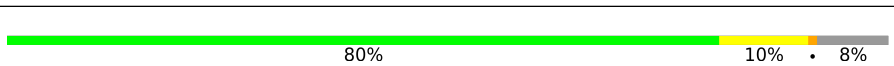
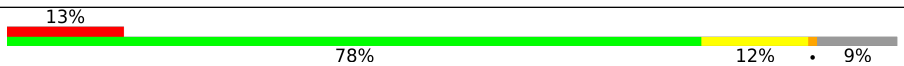
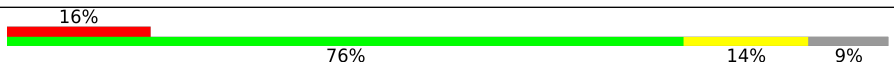
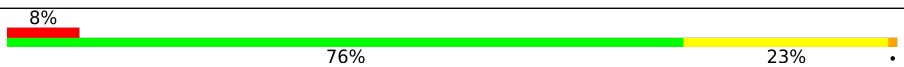
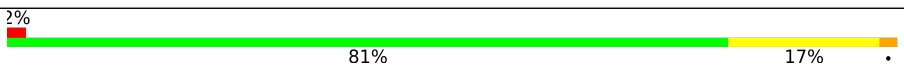
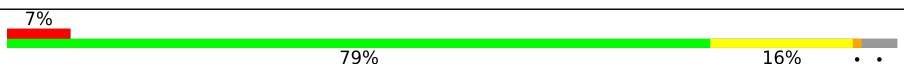
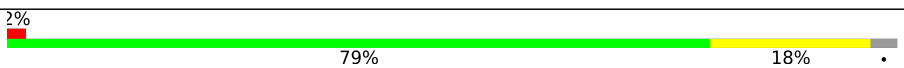
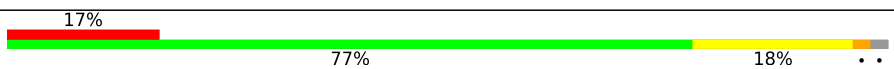
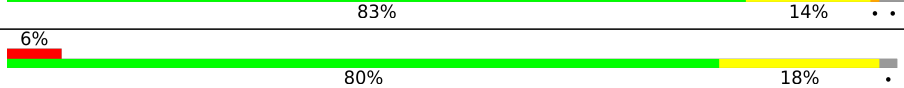
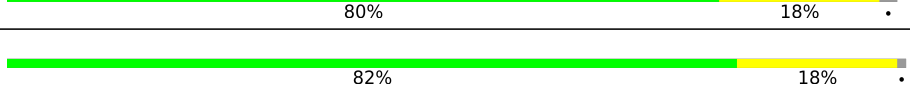
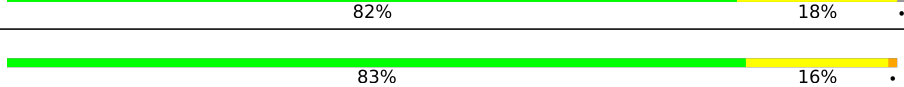
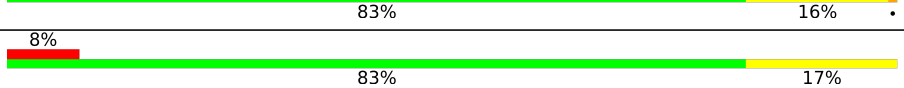
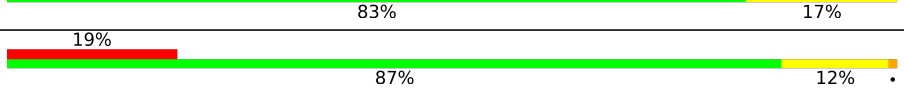
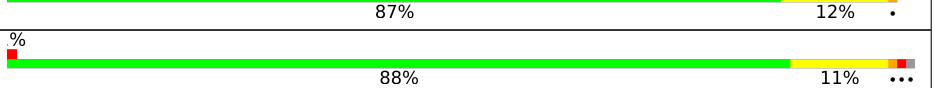
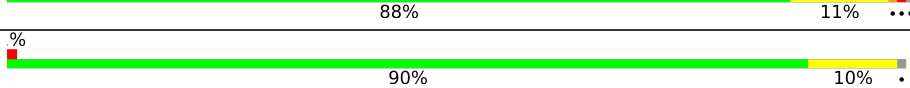
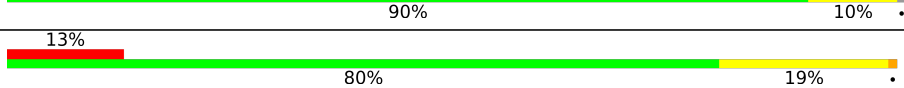
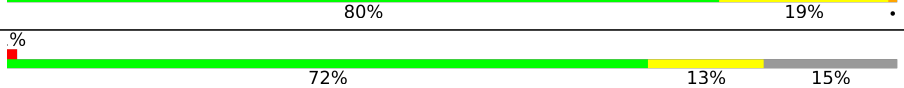
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	D7	81	
29	d7	81	
30	D8	66	
30	d8	66	
31	D9	55	
31	d9	55	
32	E0	63	
32	e0	63	
33	E1	76	
33	e1	76	
34	SR	318	
34	sR	318	
35	SM	273	
35	sM	273	
36	1	3396	
36	5	3396	
37	3	121	
37	7	121	
38	4	158	
38	8	158	
39	L2	253	
39	l2	253	
40	L3	386	
40	l3	386	
41	L4	361	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
41	l4	361	
42	L5	296	
42	l5	296	
43	L6	175	
43	l6	175	
44	L7	243	
44	l7	243	
45	L8	255	
45	l8	255	
46	L9	191	
46	l9	191	
47	M0	220	
47	m0	220	
48	M1	173	
48	m1	173	
49	M3	198	
49	m3	198	
50	M4	137	
50	m4	137	
51	M5	203	
51	m5	203	
52	M6	198	
52	m6	198	
53	M7	183	
53	m7	183	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
54	M8	185	2% 85% 14%
54	m8	185	2% 86% 12%
55	M9	188	16% 89% 11%
55	m9	188	5% 86% 13%
56	N0	172	3% 81% 19%
56	n0	172	% 78% 21%
57	N1	159	% 81% 18%
57	n1	159	% 81% 18%
58	N2	120	22% 70% 13% 17%
58	n2	120	17% 66% 16% 18%
59	N3	136	2% 88% 12%
59	n3	136	% 88% 12%
60	N4	155	18% 55% 8% 37%
60	n4	155	13% 75% 10% 13%
61	N5	141	9% 66% 20% 14%
61	n5	141	6% 71% 13% 15%
62	N6	126	7% 82% 16%
62	n6	126	87% 13%
63	N7	135	49% 85% 13%
63	n7	135	17% 80% 19%
64	N8	148	7% 84% 14%
64	n8	148	9% 79% 20%
65	N9	58	83% 16%
65	n9	58	83% 16%
66	O0	104	13% 75% 17% 7%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
66	o0	104	8% 84% 12%
67	O1	112	29% 78% 19%
67	o1	112	16% 79% 19%
68	O2	129	2% 81% 16%
68	o2	129	2% 76% 22%
69	O3	106	91% 8%
69	o3	106	3% 88% 11%
70	O4	121	33% 78% 14% 7%
70	o4	121	20% 78% 15% 7%
71	O5	119	% 83% 16%
71	o5	119	2% 82% 17%
72	O6	99	13% 77% 21%
72	o6	99	13% 78% 19%
73	O7	87	79% 21%
73	o7	87	78% 21%
74	O8	77	4% 78% 22%
74	o8	77	42% 83% 17%
75	O9	50	82% 16%
75	o9	50	2% 90% 10%
76	Q0	52	13% 83% 15%
76	q0	52	2% 75% 25%
77	Q1	25	76% 24%
77	q1	25	76% 24%
78	Q2	105	8% 79% 19%
78	q2	105	% 76% 23%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
79	Q3	91	2% 82% 18%
79	q3	91	81% 19%
80	m2	165	23% 72% 15% 9%
81	p0	311	22% 38% 8% 54%
82	p1	106	33% 42% 56%
82	p2	106	33% 39% 57%
83	f	157	44% 76% 17% 6%
84	B	3	33% 67%
84	C	3	67% 33%

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
83	5CT	f	51	X	-	-	-
85	MG	1	3407	-	-	-	X
85	MG	1	3423	-	-	-	X
85	MG	1	3449	-	-	-	X
85	MG	1	3459	-	-	-	X
85	MG	1	3491	-	-	-	X
85	MG	1	3523	-	-	-	X
85	MG	1	3608	-	-	-	X
85	MG	1	3617	-	-	-	X
85	MG	1	3634	-	-	-	X
85	MG	1	3639	-	-	-	X
85	MG	1	3642	-	-	-	X
85	MG	1	3662	-	-	-	X
85	MG	1	3663	-	-	-	X
85	MG	1	3665	-	-	-	X
85	MG	1	3692	-	-	-	X
85	MG	1	3708	-	-	-	X
85	MG	1	3714	-	-	-	X
85	MG	1	3723	-	-	-	X
85	MG	1	3729	-	-	-	X
85	MG	1	3737	-	-	-	X
85	MG	1	3742	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	MG	1	3745	-	-	-	X
85	MG	1	3754	-	-	-	X
85	MG	2	1904	-	-	-	X
85	MG	2	1912	-	-	-	X
85	MG	2	1939	-	-	-	X
85	MG	2	1943	-	-	-	X
85	MG	2	1949	-	-	-	X
85	MG	2	1958	-	-	-	X
85	MG	2	1965	-	-	-	X
85	MG	2	1973	-	-	-	X
85	MG	2	1974	-	-	-	X
85	MG	2	1985	-	-	-	X
85	MG	2	1989	-	-	-	X
85	MG	3	203	-	-	-	X
85	MG	4	203	-	-	-	X
85	MG	4	205	-	-	-	X
85	MG	4	214	-	-	-	X
85	MG	5	3418	-	-	-	X
85	MG	5	3426	-	-	-	X
85	MG	5	3444	-	-	-	X
85	MG	5	3446	-	-	-	X
85	MG	5	3448	-	-	-	X
85	MG	5	3460	-	-	-	X
85	MG	5	3468	-	-	-	X
85	MG	5	3469	-	-	-	X
85	MG	5	3483	-	-	-	X
85	MG	5	3503	-	-	-	X
85	MG	5	3543	-	-	-	X
85	MG	5	3552	-	-	-	X
85	MG	5	3599	-	-	-	X
85	MG	5	3600	-	-	-	X
85	MG	5	3613	-	-	-	X
85	MG	5	3625	-	-	-	X
85	MG	5	3637	-	-	-	X
85	MG	5	3638	-	-	-	X
85	MG	5	3649	-	-	-	X
85	MG	5	3672	-	-	-	X
85	MG	5	3680	-	-	-	X
85	MG	5	3685	-	-	-	X
85	MG	5	3690	-	-	-	X
85	MG	5	3698	-	-	-	X
85	MG	5	3714	-	-	-	X

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
85	MG	5	3741	-	-	-	X
85	MG	5	3746	-	-	-	X
85	MG	5	3750	-	-	-	X
85	MG	5	3773	-	-	-	X
85	MG	5	3816	-	-	-	X
85	MG	6	1915	-	-	-	X
85	MG	6	1932	-	-	-	X
85	MG	6	1937	-	-	-	X
85	MG	6	1982	-	-	-	X
85	MG	6	1985	-	-	-	X
85	MG	6	1986	-	-	-	X
85	MG	6	1990	-	-	-	X
85	MG	6	1996	-	-	-	X
85	MG	6	2004	-	-	-	X
85	MG	6	2008	-	-	-	X
85	MG	7	207	-	-	-	X
85	MG	8	207	-	-	-	X
85	MG	8	209	-	-	-	X
85	MG	D3	201	-	-	-	X
85	MG	M7	201	-	-	-	X
85	MG	l4	401	-	-	-	X
86	OHX	5	4062	-	-	-	X
86	OHX	5	4153	-	-	-	X
86	OHX	5	4166	-	-	-	X
86	OHX	6	2183	-	-	-	X

2 Entry composition (i)

There are 90 unique types of molecules in this entry. The entry contains 413121 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
1	2	1781	Total	C	N	O	P	0	1	0
			37970	16975	6720	12493	1782			
1	6	1795	Total	C	N	O	P	0	1	0
			38260	17105	6763	12596	1796			

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

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

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

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

- 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			
9	s7	186	Total	C	N	O	0	0	0
			1491	957	267	267			

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

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

Continued on next page...

Continued from previous page...

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	C0	96	Total	C	N	O	S	0	0	0
			773	500	126	145	2			
12	c0	96	Total	C	N	O	S	0	0	0
			762	491	125	144	2			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C0	89	ALA	GLY	conflict	UNP Q08745
c0	89	ALA	GLY	conflict	UNP Q08745

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	C1	155	Total	C	N	O	S	0	0	0
			1214	775	230	206	3			
13	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C1	147	ALA	GLY	conflict	UNP P0CX47
c1	147	ALA	GLY	conflict	UNP P0CX47

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	C2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			
14	c2	124	Total	C	N	O	S	0	0	0
			892	562	156	172	2			

There are 4 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
C2	104	ALA	GLY	conflict	UNP P48589
C2	110	ALA	GLY	conflict	UNP P48589
c2	104	ALA	GLY	conflict	UNP P48589
c2	110	ALA	GLY	conflict	UNP P48589

- 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-A.

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			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	c6	142	Total 1111	C 711	N 204	O 196	0	0	0

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

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

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

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

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

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

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

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

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

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

- 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			
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-A.

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 Ubiquitin-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
			2436	1541	418	469	8			

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	sR	318	Total	C	N	O	S	0	0	0
			2441	1544	418	471	8			

- Molecule 35 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
35	SM	159	Total	C	N	O	0	0	0
			1104	652	221	231			
35	sM	104	Total	C	N	O	0	0	0
			680	403	140	137			

- 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			
36	5	3150	Total	C	N	O	P	0	0	0
			67376	30095	12145	21987	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			
45	l8	231	Total	C	N	O	S	0	0	0
			1764	1131	316	314	3			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L8	119	ALA	GLY	conflict	UNP P17076
l8	119	ALA	GLY	conflict	UNP P17076

- 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-A.

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			

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
M1	3	THR	ALA	conflict	UNP P0C0W9
m1	3	THR	ALA	conflict	UNP P0C0W9

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

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

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

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

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

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

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

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

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

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

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

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

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
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			
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			
60	n4	135	Total	C	N	O	S	0	0	0
			1038	651	206	180	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	C	N	O	0	0	0
			1092	710	202	180			
63	n7	135	Total	C	N	O	0	0	0
			1092	710	202	180			

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

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

- 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 742	C 479	N 124	O 138	S 1	0	0	0
66	o0	100	Total 766	C 492	N 128	O 145	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
68	o2	127	Total 1020	C 647	N 205	O 167	S 1	0	0	0

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

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

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

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

Continued on next page...

Continued from previous page...

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

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

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

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

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

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

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

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

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

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

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

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

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	C	N	O	S	0	0	0
			694	429	138	121	6			
79	q3	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

- Molecule 80 is a protein called 60S ribosomal protein L12-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
80	m2	150	Total	C	N	O	0	0	0
			739	439	150	150			

- Molecule 81 is a protein called 60S acidic ribosomal protein P0.

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

- Molecule 82 is a protein called 60S acidic ribosomal protein P1-alpha.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
82	p1	47	Total 235	C 141	N 47	O 47	0	0	0
82	p2	46	Total 230	C 138	N 46	O 46	0	0	0

- Molecule 83 is a protein called Eukaryotic translation initiation factor 5A-1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
83	f	148	Total 1122	C 696	N 189	O 228	S 9	0	0	0

- Molecule 84 is a RNA chain called DNA (5'-R(*CP*CP*(NA))-3').

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
84	B	3	Total 59	C 28	N 12	O 17	P 2	0	0	0
84	C	3	Total 62	C 28	N 12	O 19	P 3	0	0	0

- Molecule 85 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	2	90	Total 90	Mg 90	0	0
85	S2	1	Total 1	Mg 1	0	0
85	D3	1	Total 1	Mg 1	0	0
85	SM	1	Total 1	Mg 1	0	0
85	1	361	Total 361	Mg 361	0	0
85	3	8	Total 8	Mg 8	0	0
85	4	15	Total 15	Mg 15	0	0
85	L2	2	Total 2	Mg 2	0	0
85	L3	1	Total 1	Mg 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	L6	1	Total Mg 1 1	0	0
85	L7	3	Total Mg 3 3	0	0
85	M0	2	Total Mg 2 2	0	0
85	M5	2	Total Mg 2 2	0	0
85	M6	3	Total Mg 3 3	0	0
85	M7	4	Total Mg 4 4	0	0
85	M9	1	Total Mg 1 1	0	0
85	N3	1	Total Mg 1 1	0	0
85	N6	1	Total Mg 1 1	0	0
85	N8	3	Total Mg 3 3	0	0
85	O4	1	Total Mg 1 1	0	0
85	O7	2	Total Mg 2 2	0	0
85	Q2	1	Total Mg 1 1	0	0
85	6	111	Total Mg 111 111	0	0
85	s4	1	Total Mg 1 1	0	0
85	s8	2	Total Mg 2 2	0	0
85	c8	2	Total Mg 2 2	0	0
85	c9	1	Total Mg 1 1	0	0
85	d2	1	Total Mg 1 1	0	0
85	d3	1	Total Mg 1 1	0	0
85	d6	1	Total Mg 1 1	0	0

Continued on next page...

Continued from previous page...

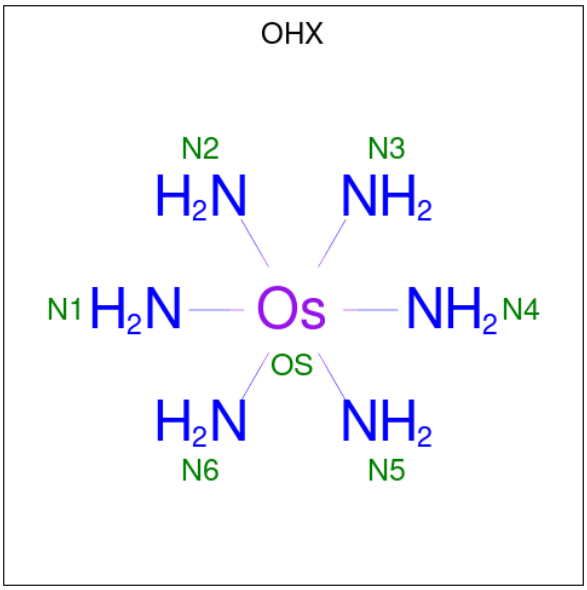
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	5	415	Total Mg 415 415	0	0
85	7	13	Total Mg 13 13	0	0
85	8	10	Total Mg 10 10	0	0
85	l2	2	Total Mg 2 2	0	0
85	l3	2	Total Mg 2 2	0	0
85	l4	1	Total Mg 1 1	0	0
85	l5	1	Total Mg 1 1	0	0
85	l7	2	Total Mg 2 2	0	0
85	m0	1	Total Mg 1 1	0	0
85	m3	1	Total Mg 1 1	0	0
85	m5	3	Total Mg 3 3	0	0
85	m7	3	Total Mg 3 3	0	0
85	n0	1	Total Mg 1 1	0	0
85	n3	1	Total Mg 1 1	0	0
85	n6	1	Total Mg 1 1	0	0
85	n8	2	Total Mg 2 2	0	0
85	o2	1	Total Mg 1 1	0	0
85	o3	1	Total Mg 1 1	0	0
85	o4	1	Total Mg 1 1	0	0
85	q1	1	Total Mg 1 1	0	0
85	q2	1	Total Mg 1 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	q3	1	Total Mg 1 1	0	0
85	f	1	Total Mg 1 1	0	0
85	B	1	Total Mg 1 1	0	0
85	C	1	Total Mg 1 1	0	0

- Molecule 86 is osmium (III) hexammine (three-letter code: OHX) (formula: $H_{12}N_6Os$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	1	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	1	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	1	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	1	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	1	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	1	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	1	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	2	1	Total N Os 7 6 1	0	0
86	S1	1	Total N Os 7 6 1	0	0
86	S6	1	Total N Os 7 6 1	0	0
86	S8	1	Total N Os 7 6 1	0	0
86	S9	1	Total N Os 7 6 1	0	0
86	C3	1	Total N Os 7 6 1	0	0
86	C5	1	Total N Os 7 6 1	0	0
86	C8	1	Total N Os 7 6 1	0	0
86	D9	1	Total N Os 7 6 1	0	0
86	SR	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	2	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	2	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	1	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	2	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	1	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0
86	3	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	3	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	1	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	1	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	4	1	Total N Os 7 6 1	0	0
86	L3	1	Total N Os 7 6 1	0	0
86	L3	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	L3	1	Total N Os 7 6 1	0	0
86	L4	1	Total N Os 7 6 1	0	0
86	L5	1	Total N Os 7 6 1	0	0
86	M0	1	Total N Os 7 6 1	0	0
86	M0	1	Total N Os 7 6 1	0	0
86	M5	1	Total N Os 7 6 1	0	0
86	M5	1	Total N Os 7 6 1	0	0
86	M6	1	Total N Os 7 6 1	0	0
86	M7	1	Total N Os 7 6 1	0	0
86	M8	1	Total N Os 7 6 1	0	0
86	M9	1	Total N Os 7 6 1	0	0
86	N8	1	Total N Os 7 6 1	0	0
86	N9	1	Total N Os 7 6 1	0	0
86	O1	1	Total N Os 7 6 1	0	0
86	O3	1	Total N Os 7 6 1	0	0
86	O4	1	Total N Os 7 6 1	0	0
86	O7	1	Total N Os 7 6 1	0	0
86	O9	1	Total N Os 7 6 1	0	0
86	Q2	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	2	0
86	6	1	Total N Os 7 6 1	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	2	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	1	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	2	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	1	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	1	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0
86	6	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
86	6	1	Total	N	Os	0	0
			7	6	1		
86	6	1	Total	N	Os	0	0
			7	6	1		
86	s1	1	Total	N	Os	0	0
			7	6	1		
86	s1	1	Total	N	Os	0	0
			7	6	1		
86	s4	1	Total	N	Os	0	0
			7	6	1		
86	s8	1	Total	N	Os	0	0
			7	6	1		
86	s9	1	Total	N	Os	0	0
			7	6	1		
86	c3	1	Total	N	Os	0	0
			7	6	1		
86	c5	1	Total	N	Os	0	0
			7	6	1		
86	c5	1	Total	N	Os	0	0
			7	6	1		
86	c8	1	Total	N	Os	0	0
			7	6	1		
86	d4	1	Total	N	Os	0	0
			7	6	1		
86	d9	1	Total	N	Os	0	0
			7	6	1		
86	sR	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	1	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		
86	5	1	Total	N	Os	0	0
			7	6	1		

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	5	1	Total N Os 7 6 1	1	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	5	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0
86	7	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	7	1	Total N Os 7 6 1	1	0
86	7	1	Total N Os 7 6 1	1	0
86	7	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	1	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	1	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	1	0
86	8	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	8	1	Total N Os 7 6 1	0	0
86	l3	1	Total N Os 7 6 1	0	0
86	l3	1	Total N Os 7 6 1	0	0
86	l4	1	Total N Os 7 6 1	0	0
86	l4	1	Total N Os 7 6 1	0	0
86	l5	1	Total N Os 7 6 1	0	0
86	l5	1	Total N Os 7 6 1	1	0
86	l9	1	Total N Os 7 6 1	0	0
86	m0	1	Total N Os 7 6 1	0	0
86	m0	1	Total N Os 7 6 1	0	0
86	m1	1	Total N Os 7 6 1	0	0
86	m4	1	Total N Os 7 6 1	0	0
86	m5	1	Total N Os 7 6 1	0	0
86	m5	1	Total N Os 7 6 1	0	0
86	m5	1	Total N Os 7 6 1	0	0
86	m6	1	Total N Os 7 6 1	0	0
86	m7	1	Total N Os 7 6 1	0	0
86	m8	1	Total N Os 7 6 1	0	0
86	m9	1	Total N Os 7 6 1	0	0

Continued on next page...

Continued from previous page...

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	n3	1	Total N Os 7 6 1	0	0
86	n9	1	Total N Os 7 6 1	0	0
86	o3	1	Total N Os 7 6 1	0	0
86	o6	1	Total N Os 7 6 1	0	0
86	o7	1	Total N Os 7 6 1	0	0
86	o7	1	Total N Os 7 6 1	0	0
86	q2	1	Total N Os 7 6 1	0	0

- Molecule 87 is ZINC ION (three-letter code: ZN) (formula: Zn).

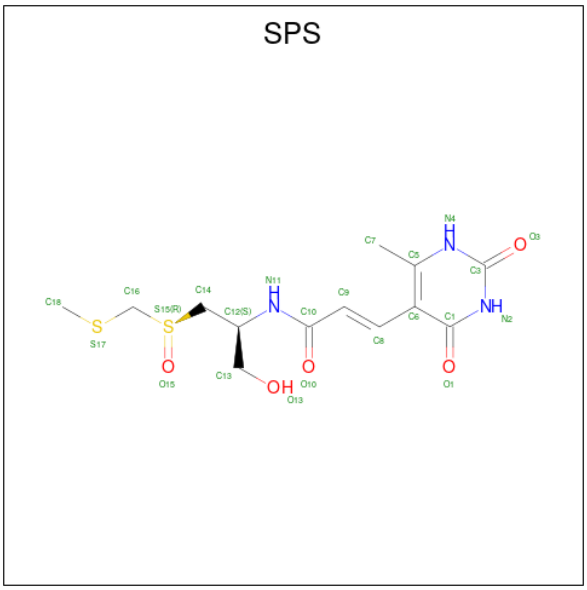
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
87	D6	1	Total Zn 1 1	0	0
87	D7	1	Total Zn 1 1	0	0
87	D9	1	Total Zn 1 1	0	0
87	E1	1	Total Zn 1 1	0	0
87	O7	1	Total Zn 1 1	0	0
87	Q0	1	Total Zn 1 1	0	0
87	Q2	1	Total Zn 1 1	0	0
87	Q3	1	Total Zn 1 1	0	0
87	d6	1	Total Zn 1 1	0	0
87	d7	1	Total Zn 1 1	0	0
87	d9	1	Total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

Continued on next page...

Continued from previous page...

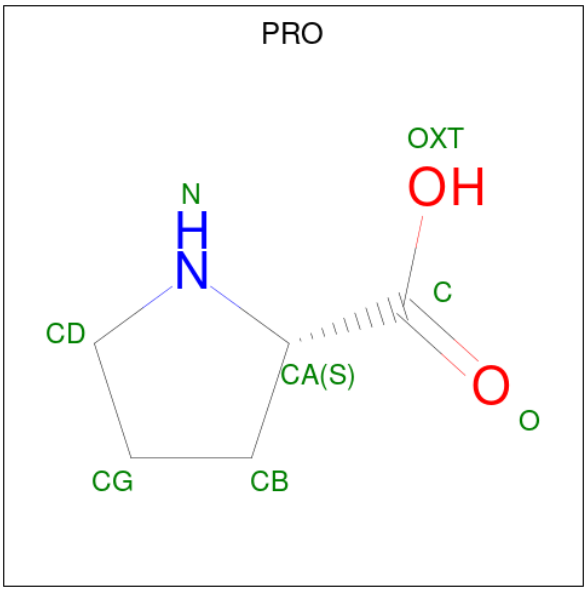
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
87	o7	1	Total Zn 1 1	0	0
87	q0	1	Total Zn 1 1	0	0
87	q2	1	Total Zn 1 1	0	0
87	q3	1	Total Zn 1 1	0	0

- Molecule 88 is SPARSOMYCIN (three-letter code: SPS) (formula: $C_{13}H_{19}N_3O_5S_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
88	1	1	Total C N O S 23 13 3 5 2	0	0
88	5	1	Total C N O S 23 13 3 5 2	0	0

- Molecule 89 is PROLINE (three-letter code: PRO) (formula: $C_5H_9NO_2$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
89	1	1	Total C N O 7 5 1 1	0	0
89	5	1	Total C N O 7 5 1 1	0	0
89	B	1	Total C N O 7 5 1 1	0	0
89	C	1	Total C N O 7 5 1 1	0	0

- Molecule 90 is water.

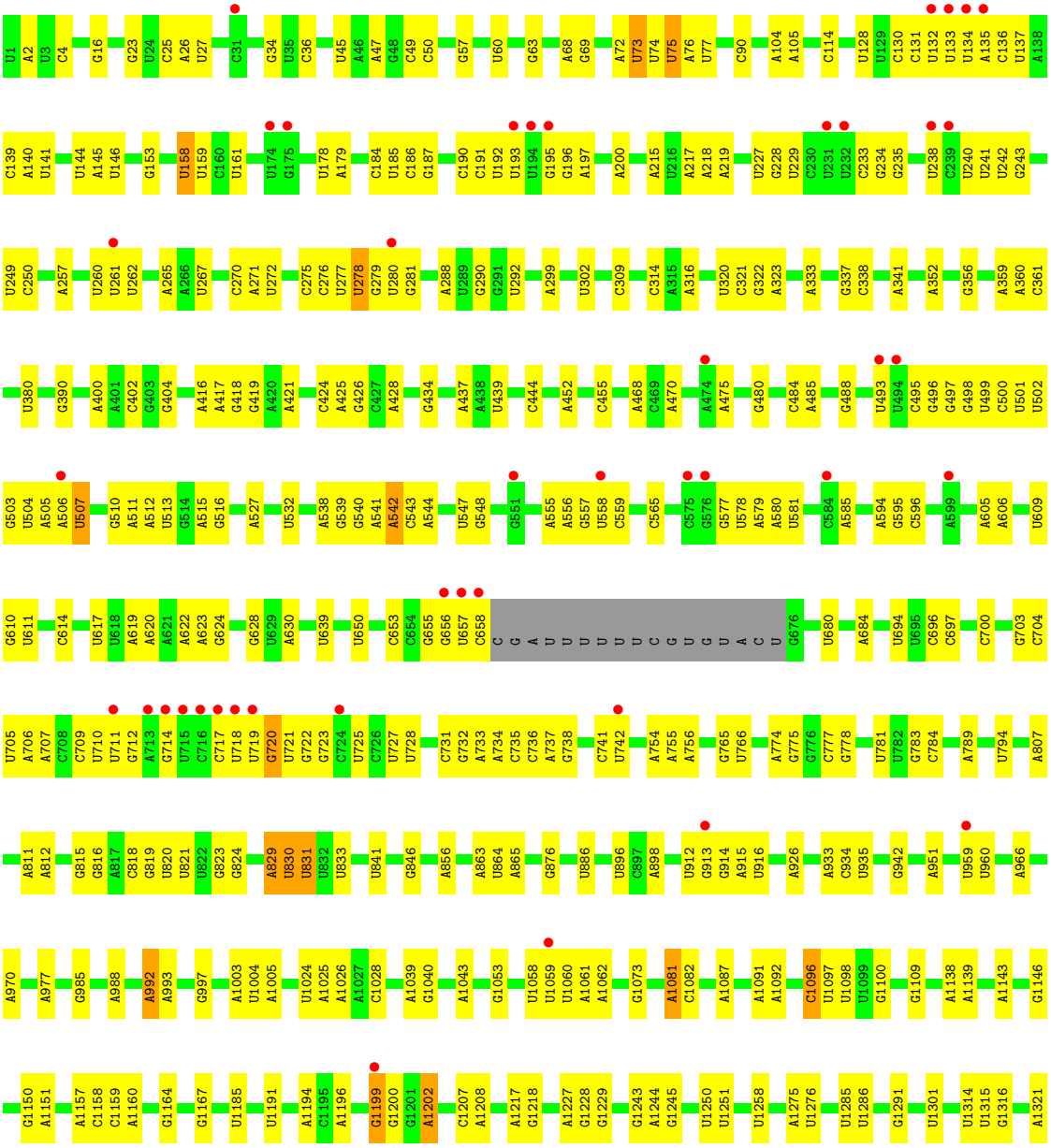
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
90	5	6	Total O 6 6	0	0
90	f	6	Total O 6 6	0	0

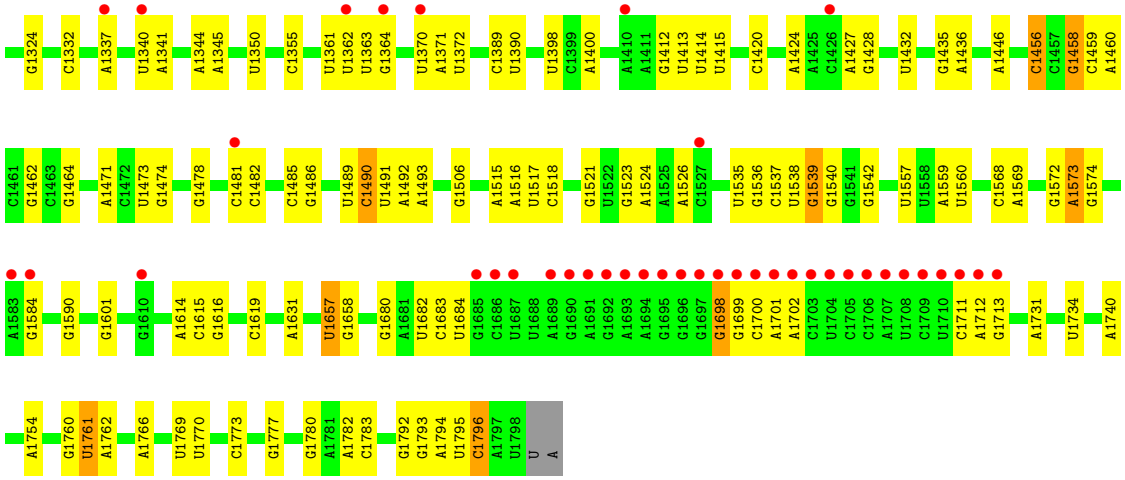
3 Residue-property plots (i)

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

- Molecule 1: 18S ribosomal RNA

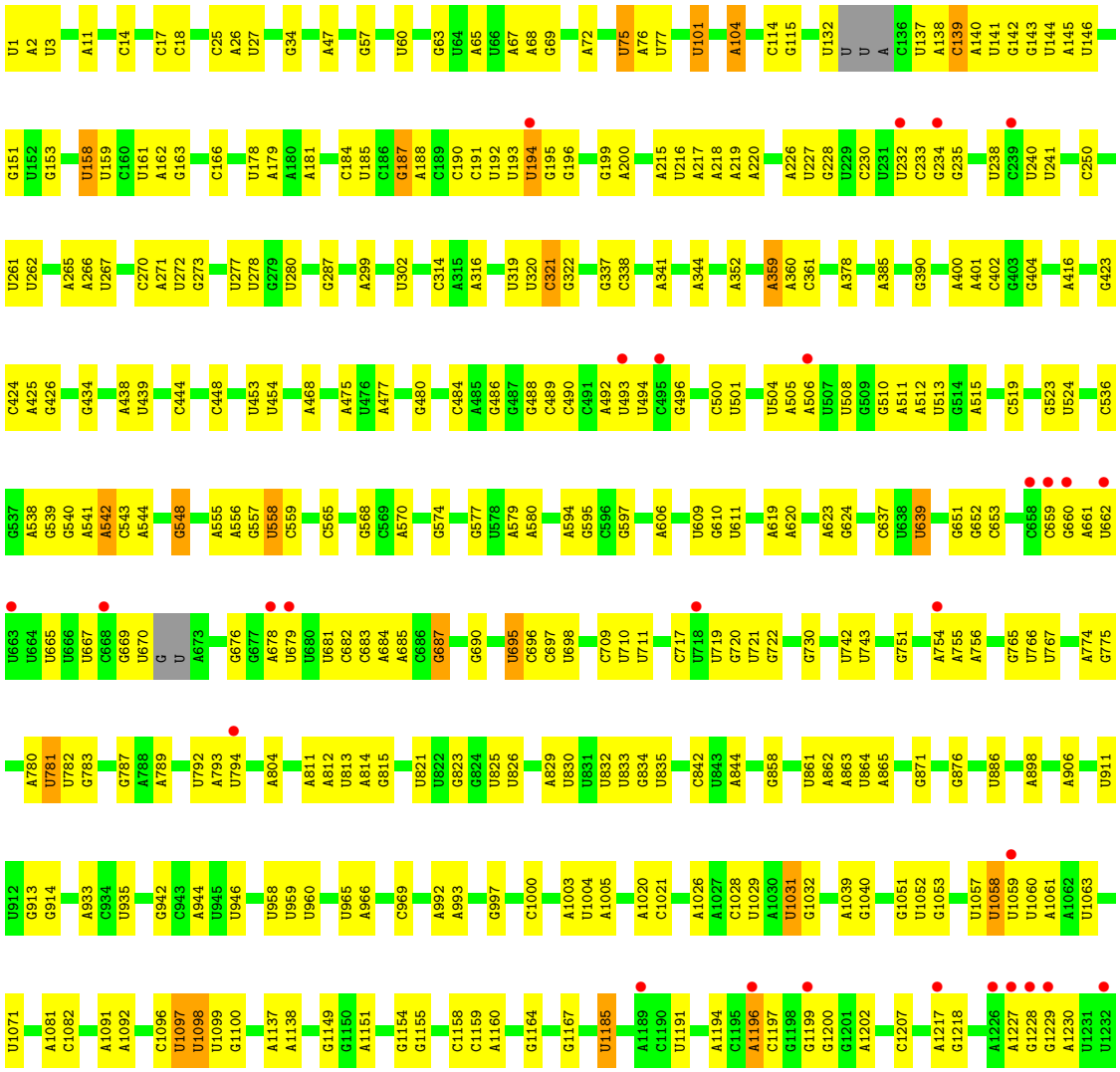
Chain 2:

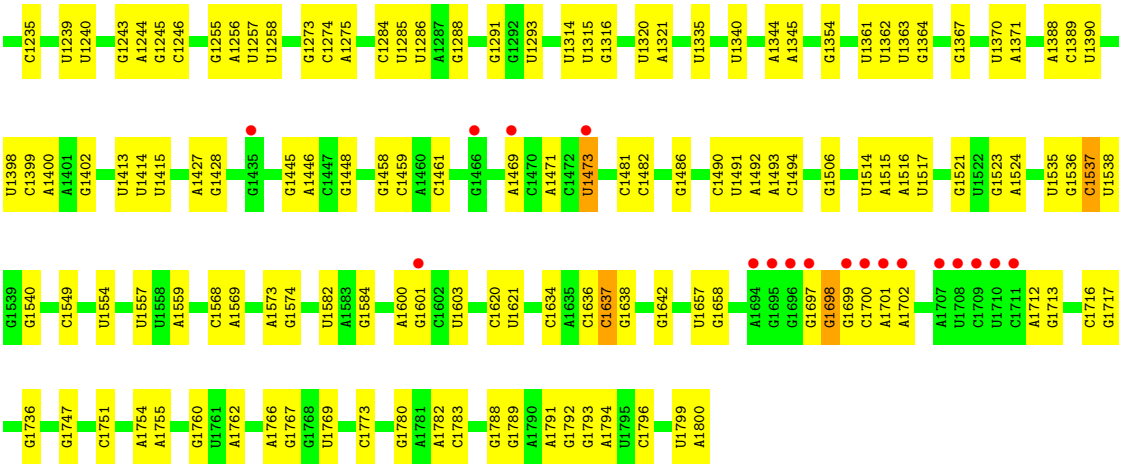




• Molecule 1: 18S ribosomal RNA

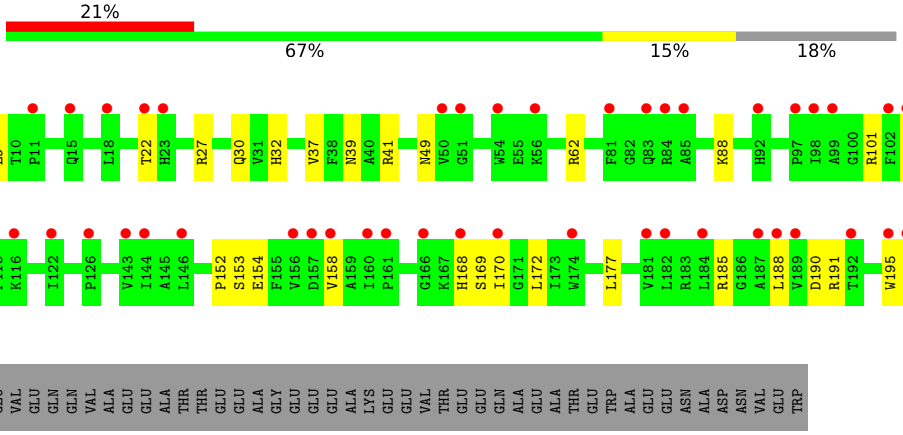
Chain 6:





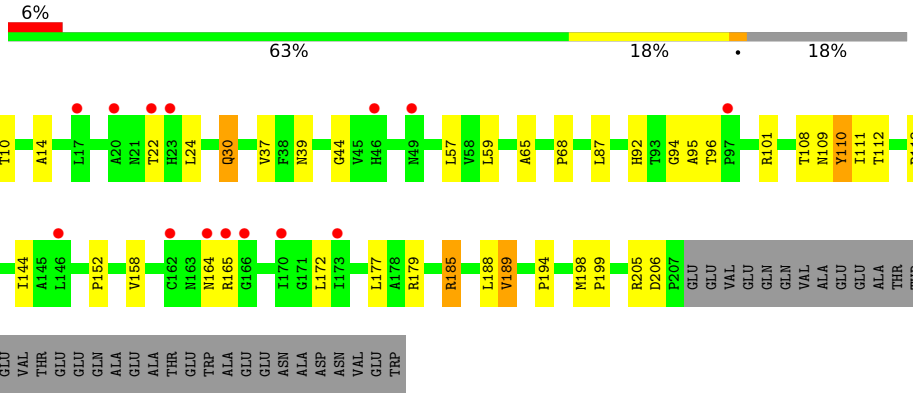
• Molecule 2: 40S ribosomal protein S0-A

Chain S0:



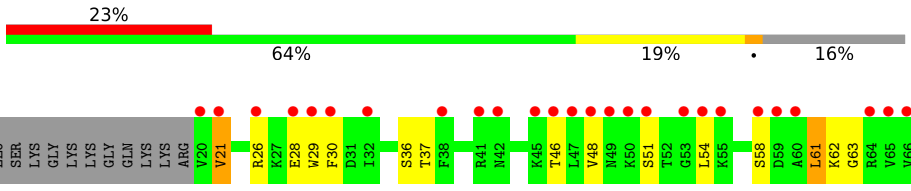
• Molecule 2: 40S ribosomal protein S0-A

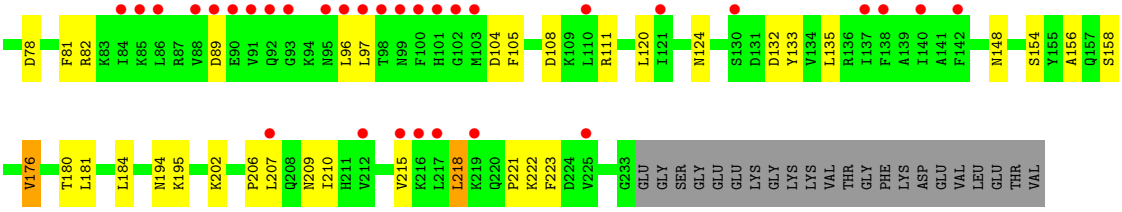
Chain s0:



• Molecule 3: 40S ribosomal protein S1-A

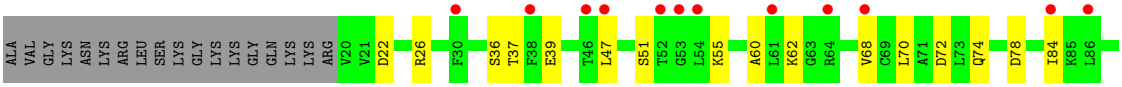
Chain S1:

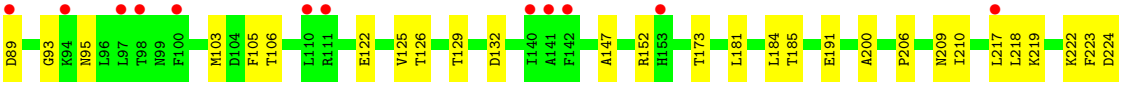


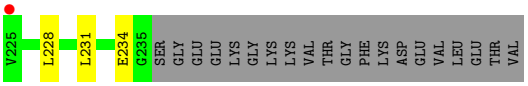


• Molecule 3: 40S ribosomal protein S1-A

Chain s1:

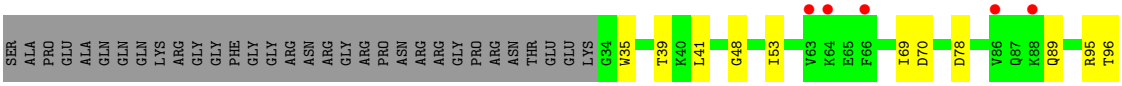


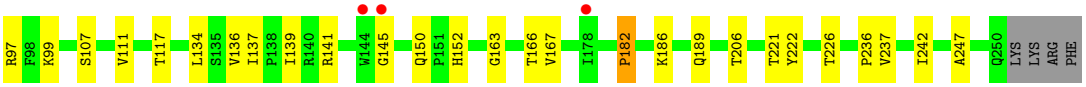




• Molecule 4: 40S ribosomal protein S2

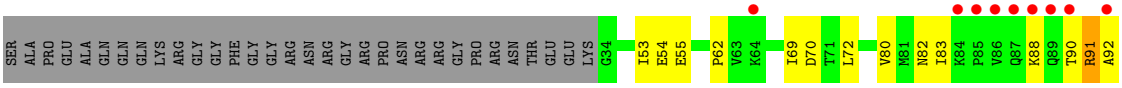
Chain S2:

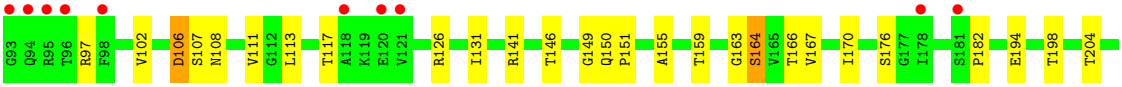


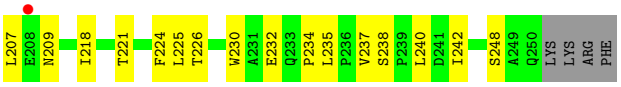


• Molecule 4: 40S ribosomal protein S2

Chain s2:

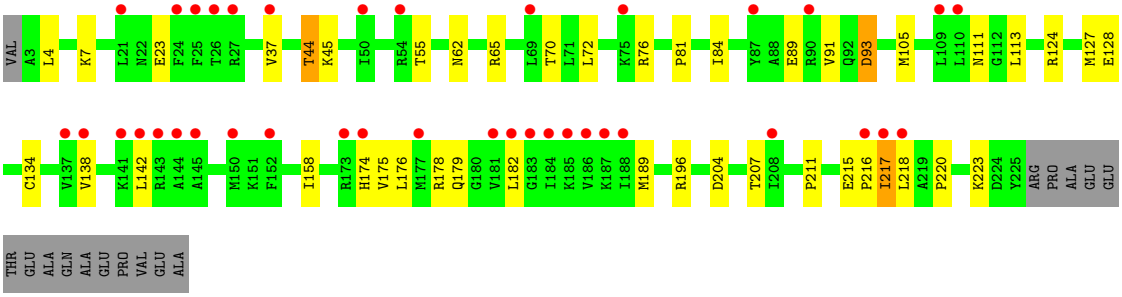






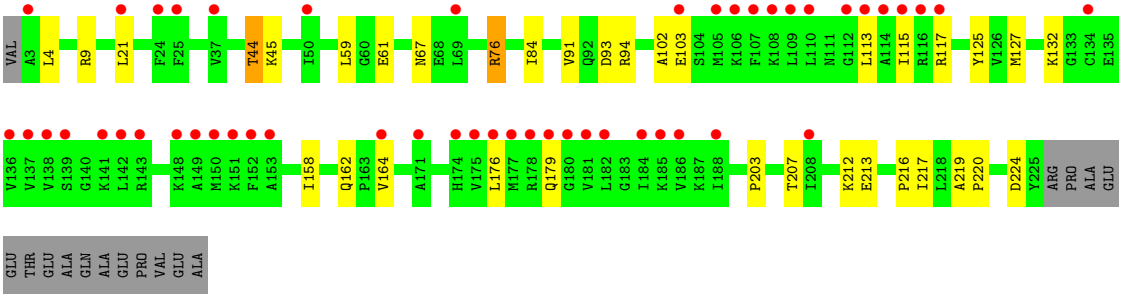
• Molecule 5: 40S ribosomal protein S3

Chain S3:



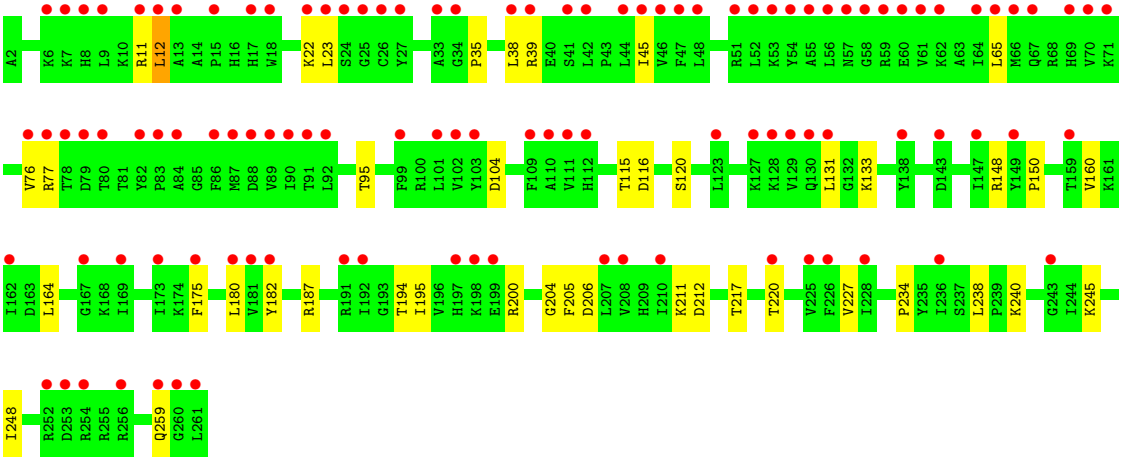
• Molecule 5: 40S ribosomal protein S3

Chain s3:



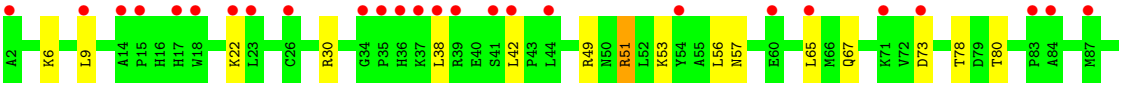
• Molecule 6: 40S ribosomal protein S4-A

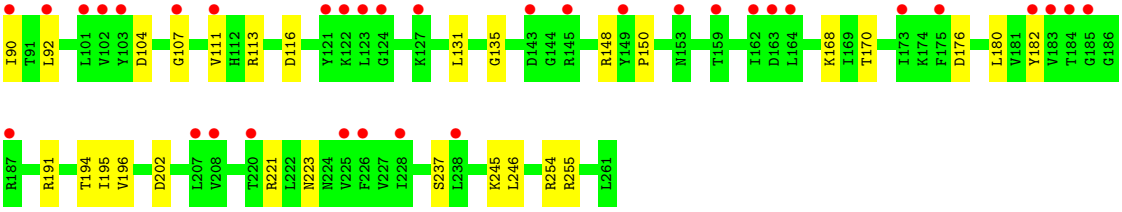
Chain S4:



• Molecule 6: 40S ribosomal protein S4-A

Chain s4:



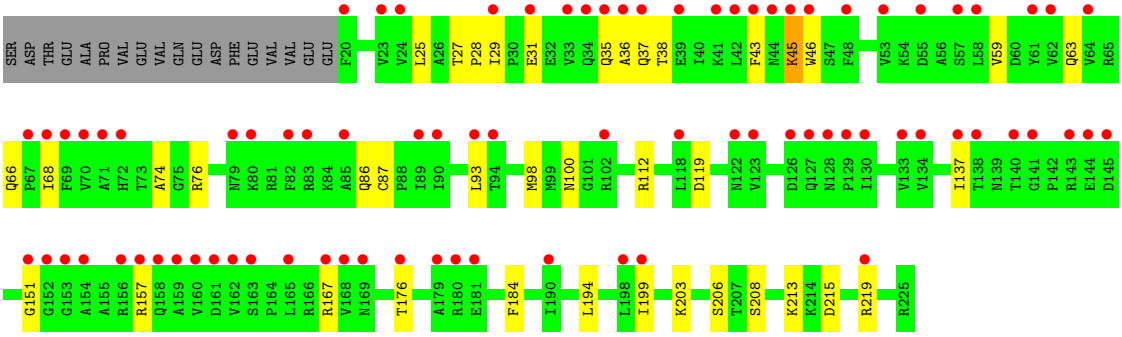


• Molecule 7: 40S ribosomal protein S5

Chain S5:

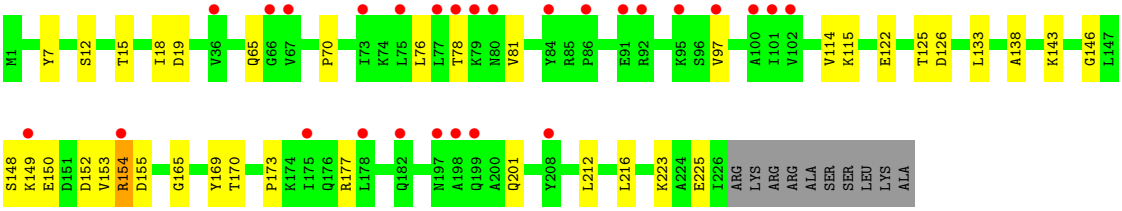
• Molecule 7: 40S ribosomal protein S5

Chain s5:



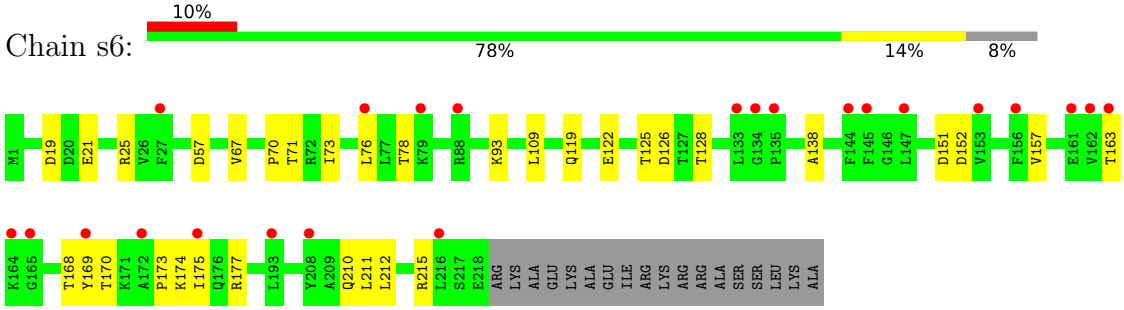
• Molecule 8: 40S ribosomal protein S6-A

Chain S6:



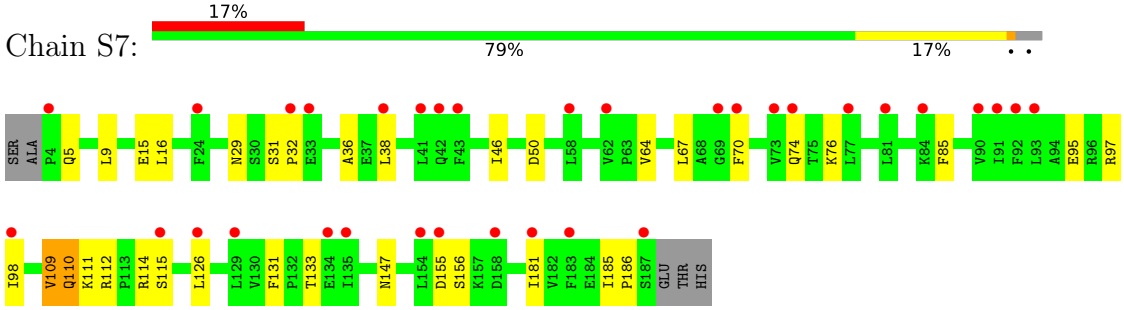
• Molecule 8: 40S ribosomal protein S6-A

Chain s6:



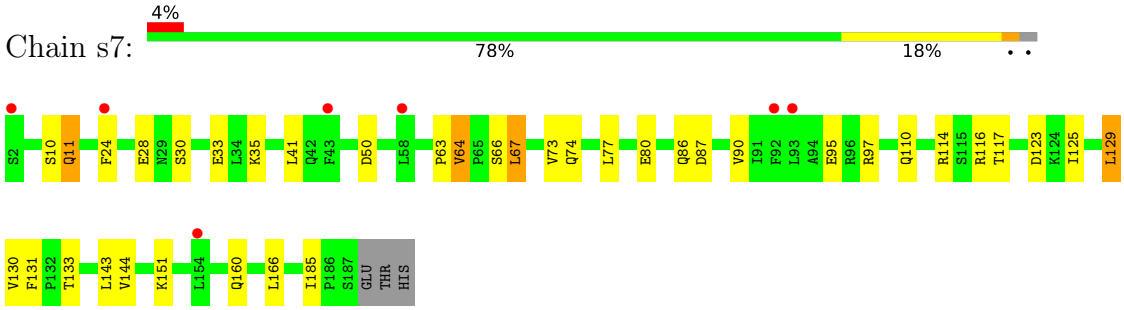
• Molecule 9: 40S ribosomal protein S7-A

Chain S7:



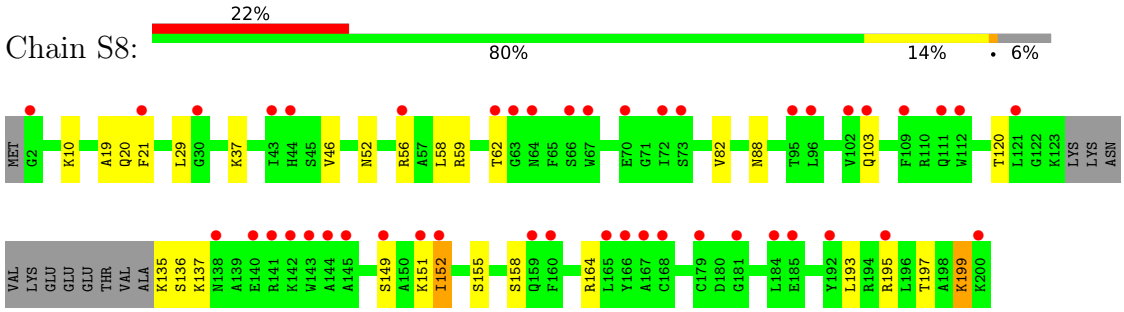
• Molecule 9: 40S ribosomal protein S7-A

Chain s7:



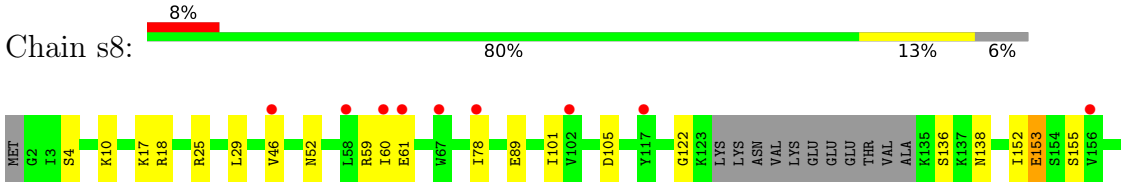
• Molecule 10: 40S ribosomal protein S8-A

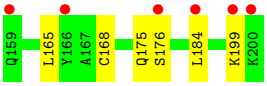
Chain S8:



• Molecule 10: 40S ribosomal protein S8-A

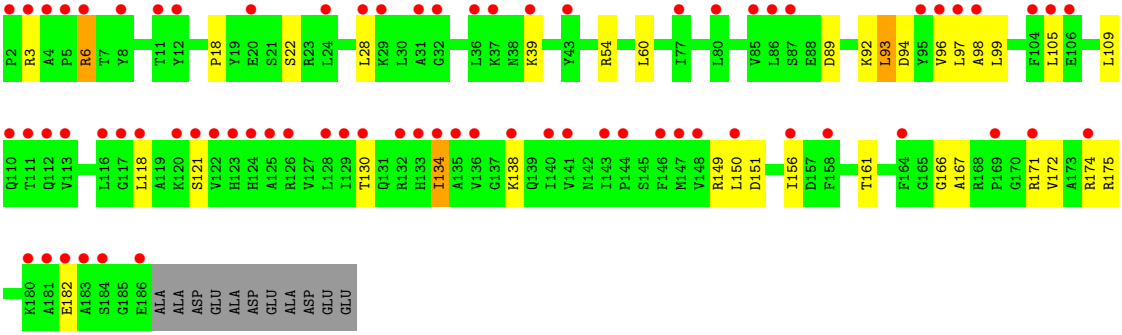
Chain s8:





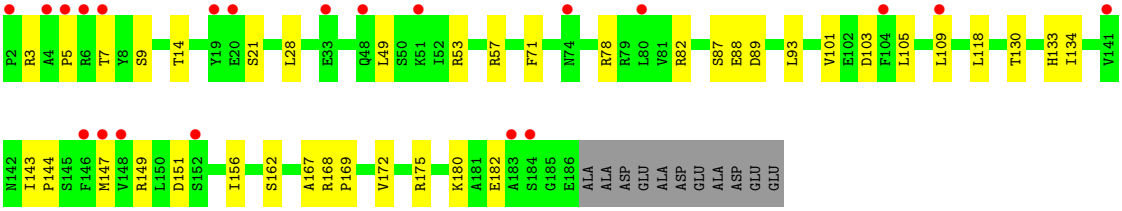
• Molecule 11: 40S ribosomal protein S9-A

Chain S9:



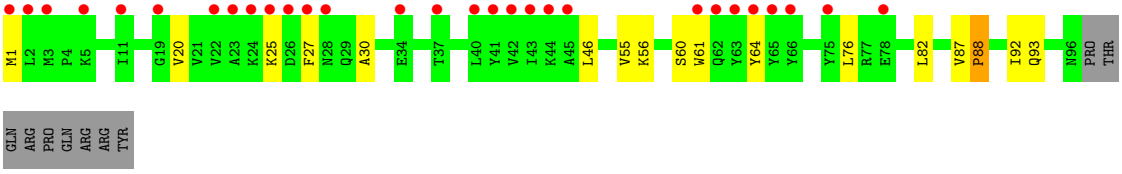
• Molecule 11: 40S ribosomal protein S9-A

Chain s9:



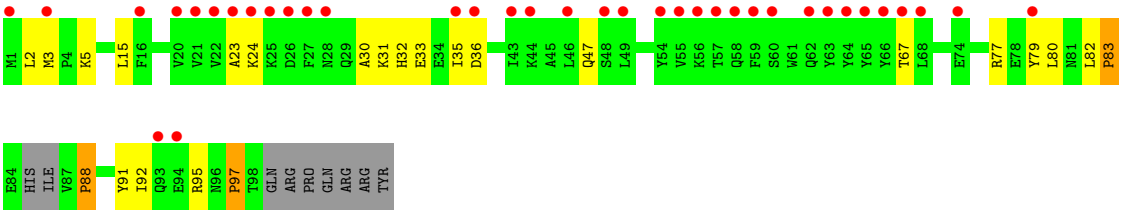
• Molecule 12: 40S ribosomal protein S10-A

Chain C0:



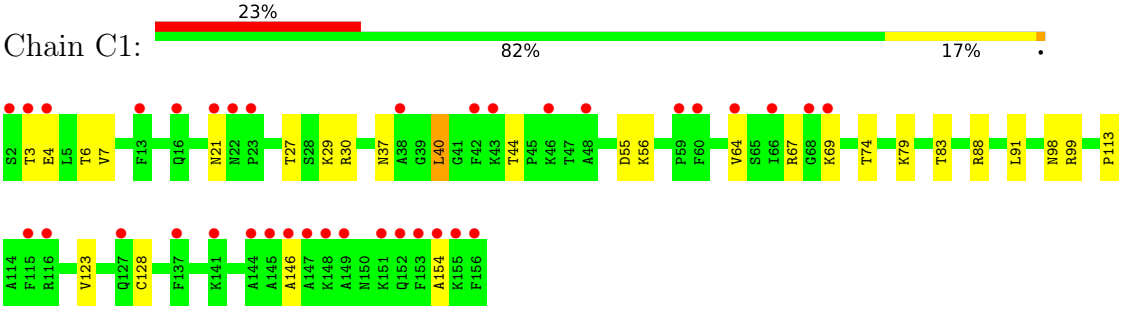
• Molecule 12: 40S ribosomal protein S10-A

Chain c0:



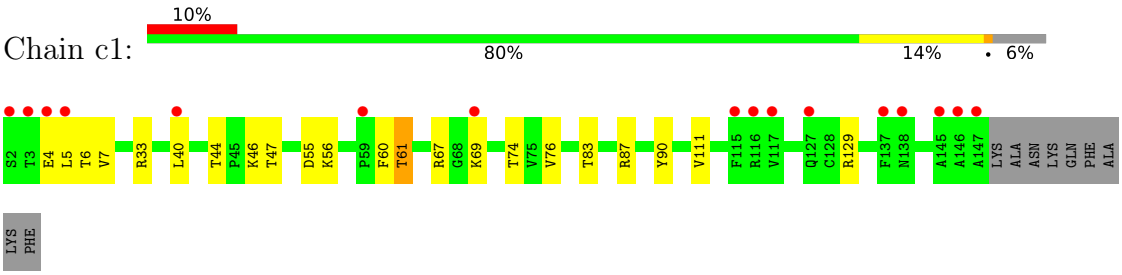
• Molecule 13: 40S ribosomal protein S11-A

Chain C1:



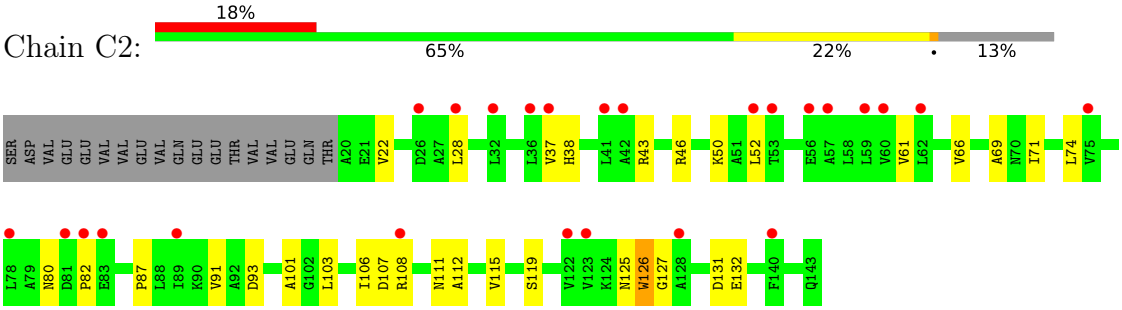
• Molecule 13: 40S ribosomal protein S11-A

Chain c1:



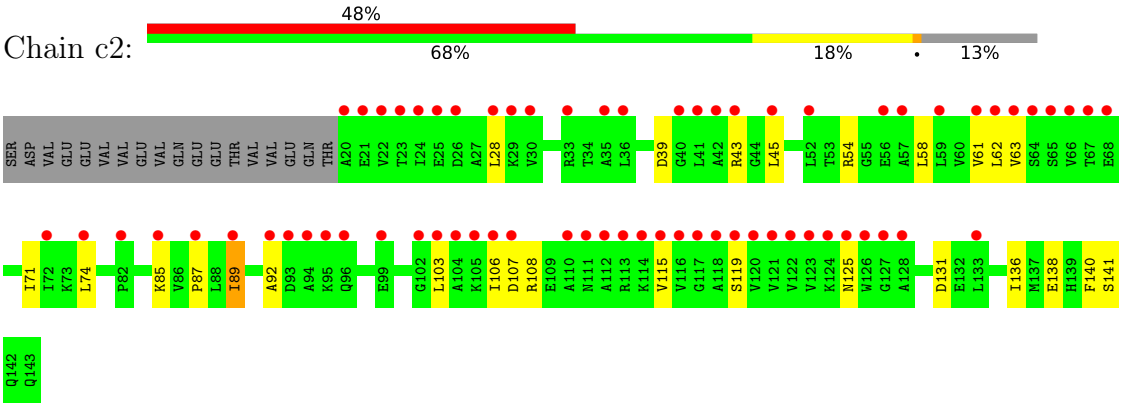
• Molecule 14: 40S ribosomal protein S12

Chain C2:



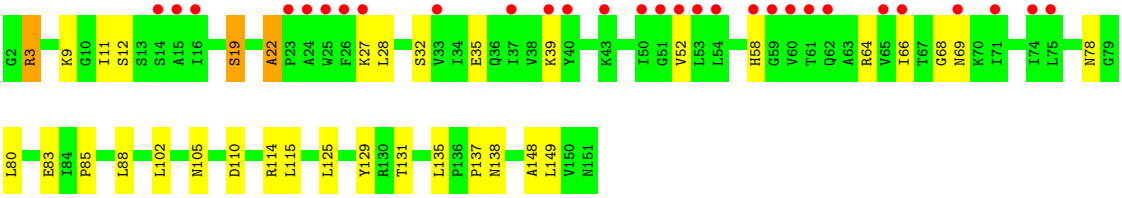
• Molecule 14: 40S ribosomal protein S12

Chain c2:



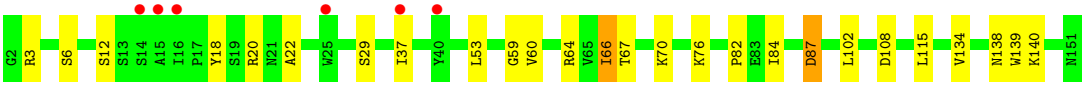
• Molecule 15: 40S ribosomal protein S13

Chain C3:



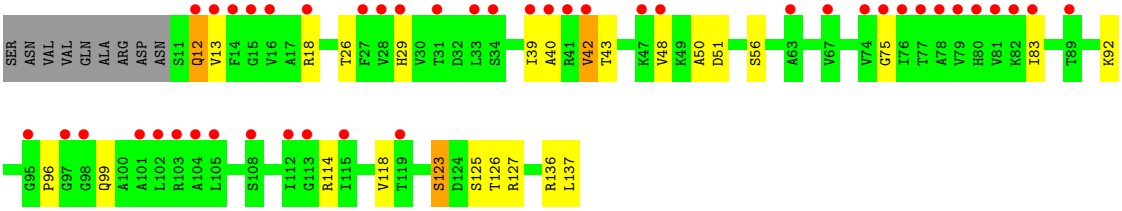
• Molecule 15: 40S ribosomal protein S13

Chain c3:



• Molecule 16: 40S ribosomal protein S14-A

Chain C4:

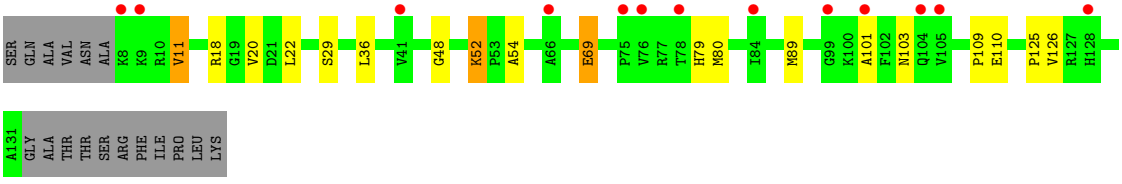


• Molecule 16: 40S ribosomal protein S14-A

Chain c4:

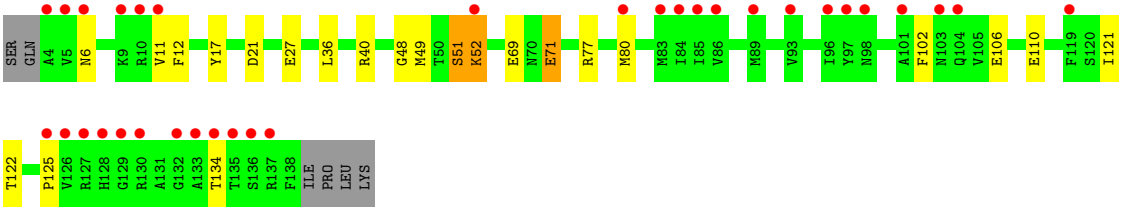
• Molecule 17: 40S ribosomal protein S15

Chain C5:



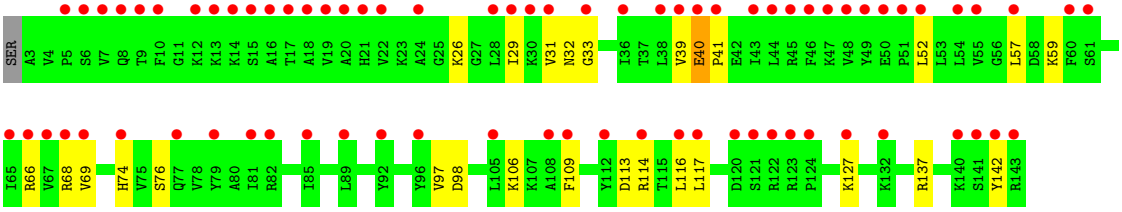
• Molecule 17: 40S ribosomal protein S15

Chain c5:



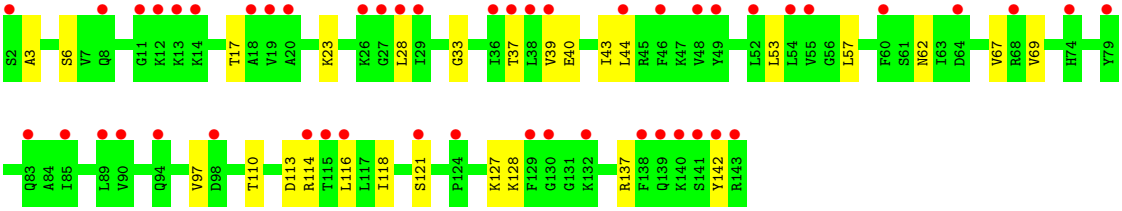
• Molecule 18: 40S ribosomal protein S16-A

Chain C6:



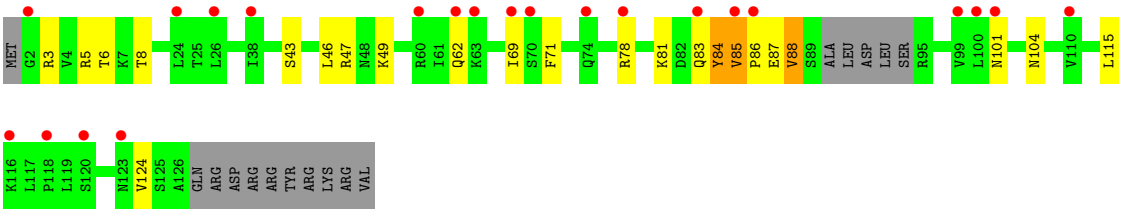
• Molecule 18: 40S ribosomal protein S16-A

Chain c6:



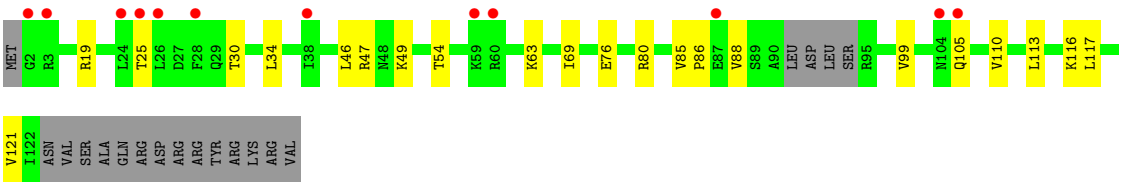
• Molecule 19: 40S ribosomal protein S17-A

Chain C7:



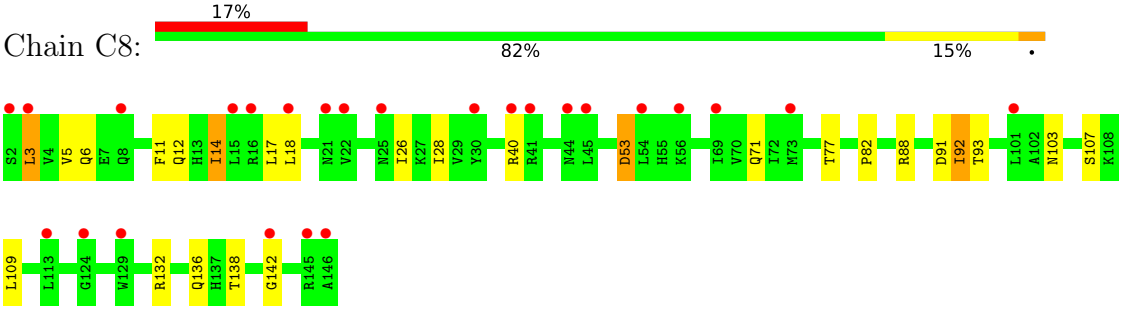
• Molecule 19: 40S ribosomal protein S17-A

Chain c7:



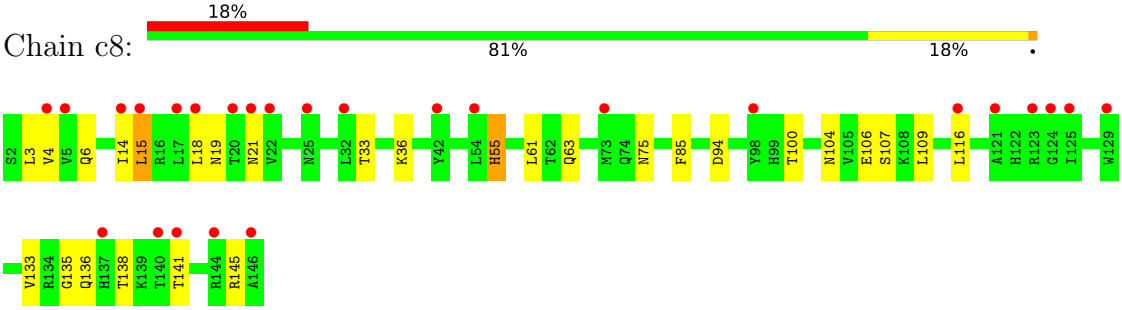
• Molecule 20: 40S ribosomal protein S18-A

Chain C8:



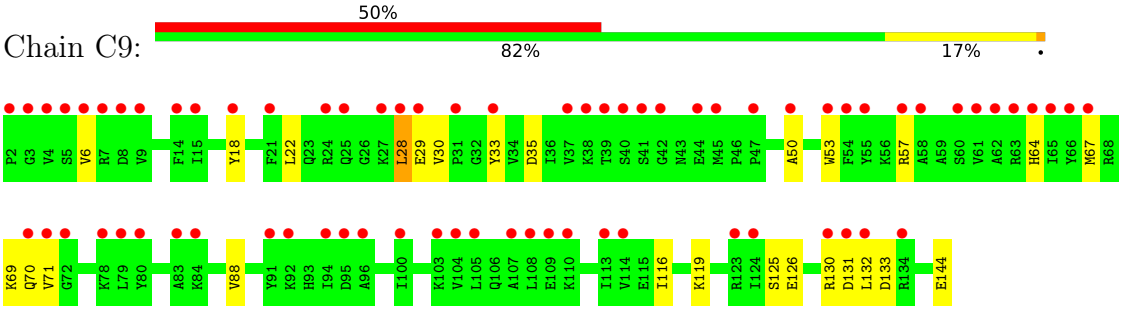
• Molecule 20: 40S ribosomal protein S18-A

Chain c8:



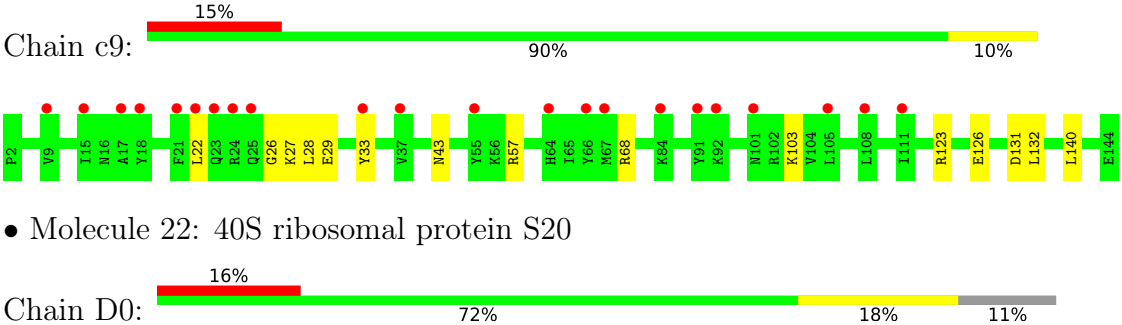
• Molecule 21: 40S ribosomal protein S19-A

Chain C9:



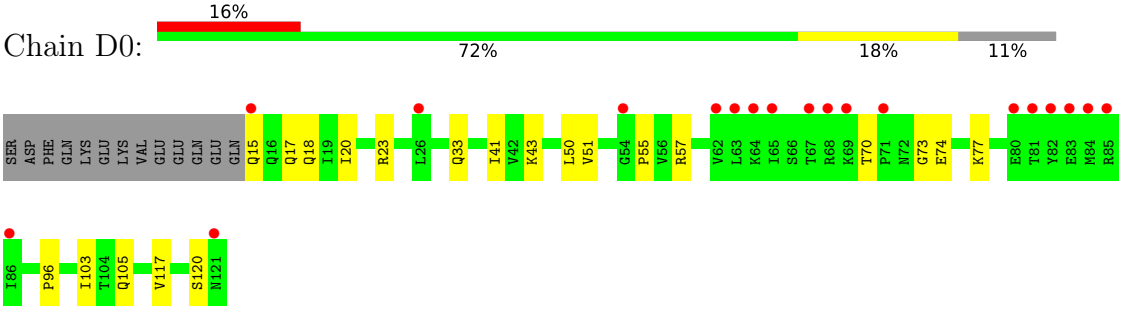
• Molecule 21: 40S ribosomal protein S19-A

Chain c9:



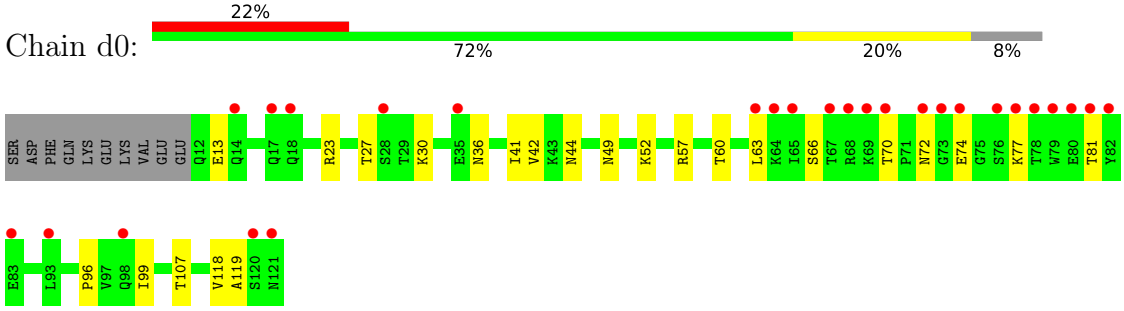
• Molecule 22: 40S ribosomal protein S20

Chain D0:



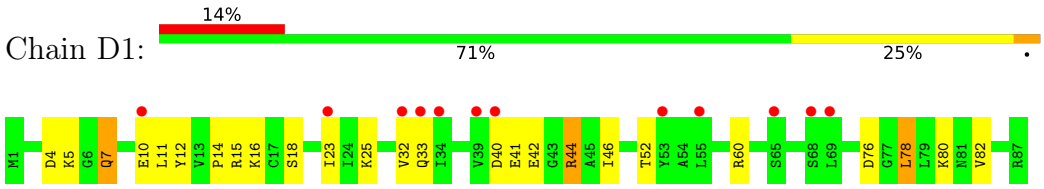
• Molecule 22: 40S ribosomal protein S20

Chain d0:



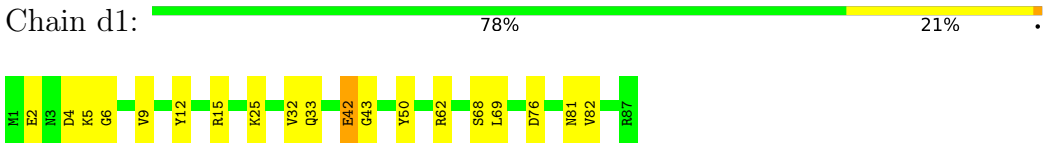
• Molecule 23: 40S ribosomal protein S21-A

Chain D1:



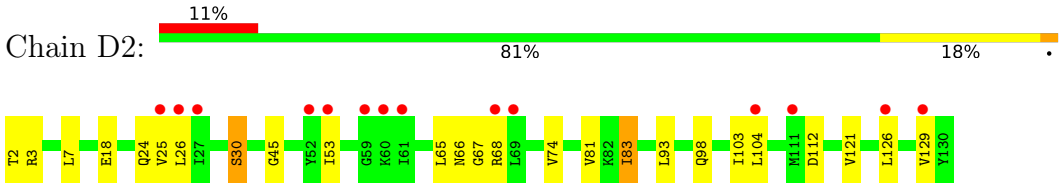
• Molecule 23: 40S ribosomal protein S21-A

Chain d1:



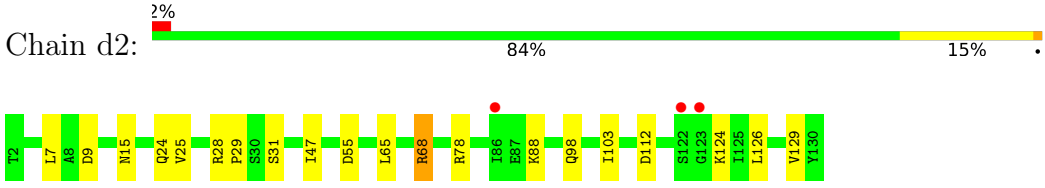
• Molecule 24: 40S ribosomal protein S22-A

Chain D2:



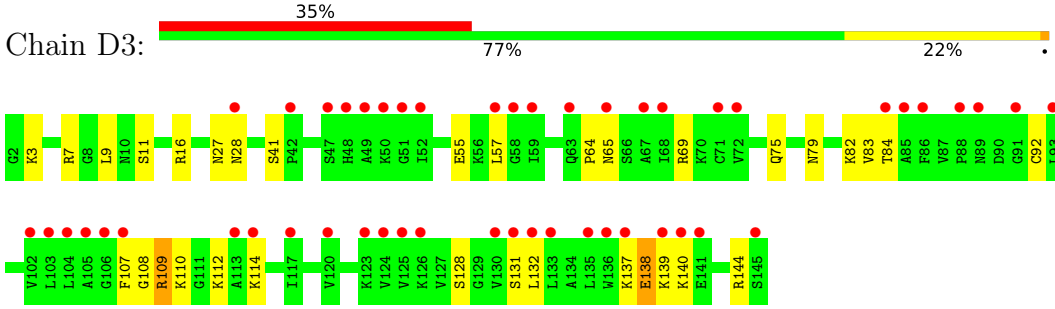
• Molecule 24: 40S ribosomal protein S22-A

Chain d2:



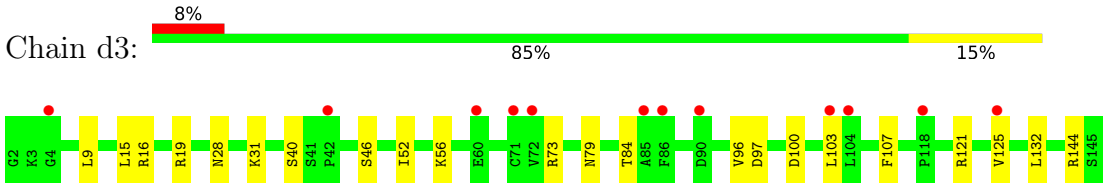
• Molecule 25: 40S ribosomal protein S23-A

Chain D3:



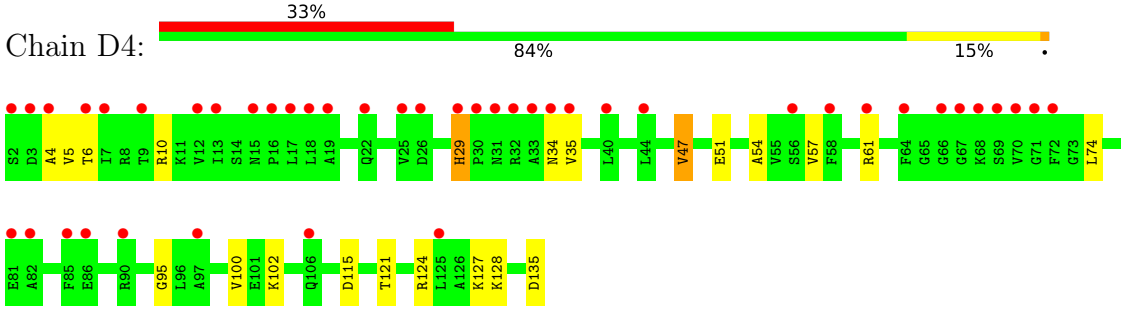
• Molecule 25: 40S ribosomal protein S23-A

Chain d3:



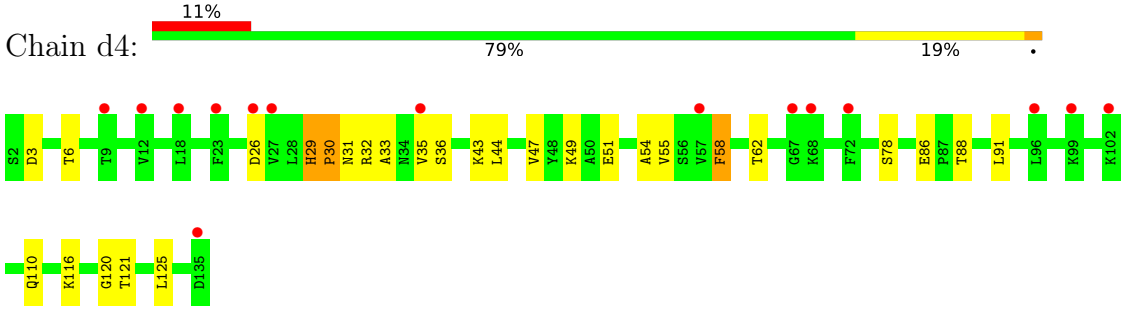
• Molecule 26: 40S ribosomal protein S24-A

Chain D4:



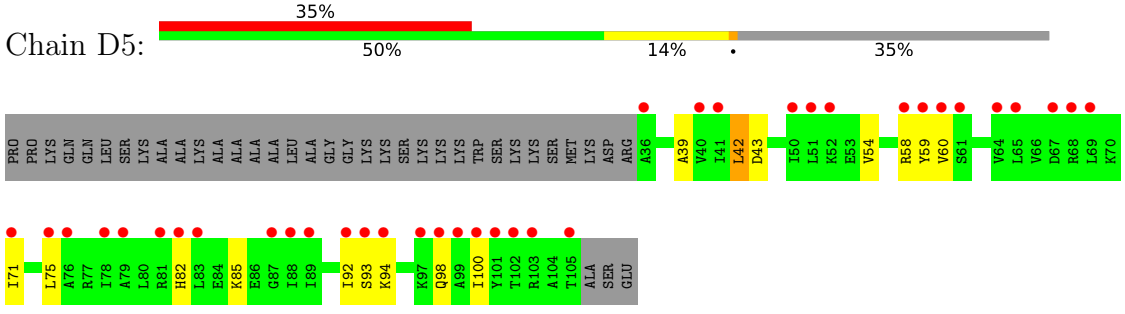
• Molecule 26: 40S ribosomal protein S24-A

Chain d4:



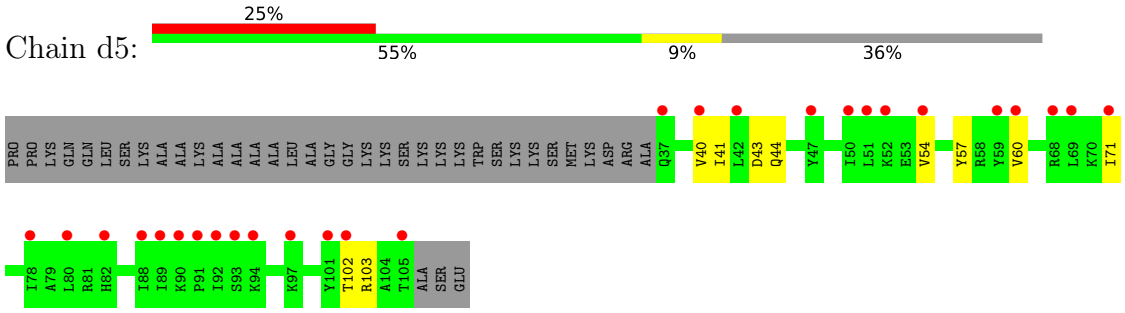
• Molecule 27: 40S ribosomal protein S25-A

Chain D5:



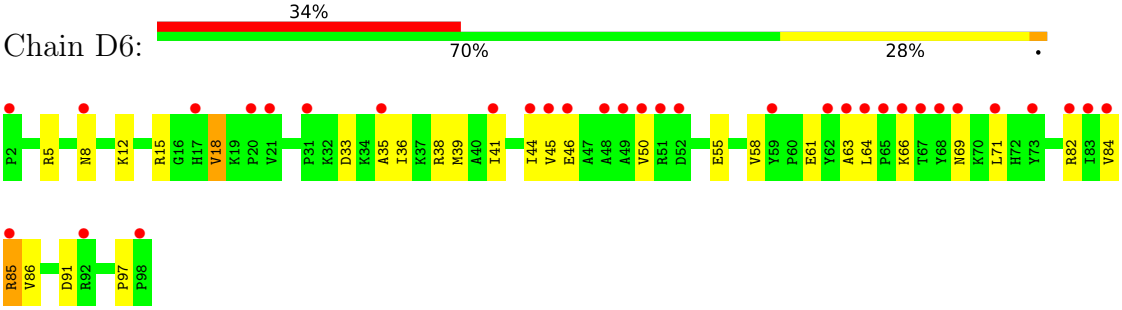
• Molecule 27: 40S ribosomal protein S25-A

Chain d5:



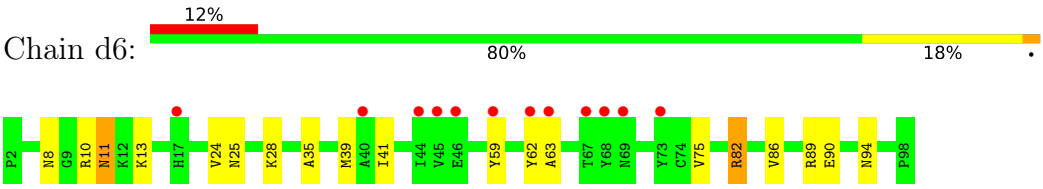
• Molecule 28: 40S ribosomal protein S26-A

Chain D6:



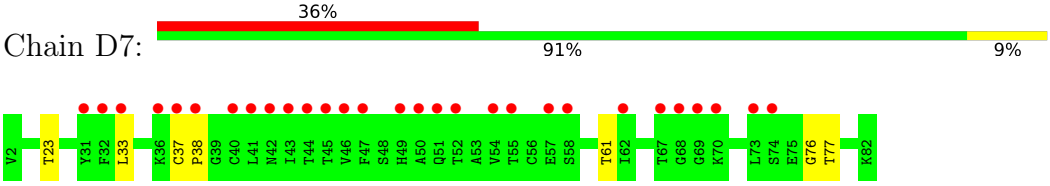
• Molecule 28: 40S ribosomal protein S26-A

Chain d6:



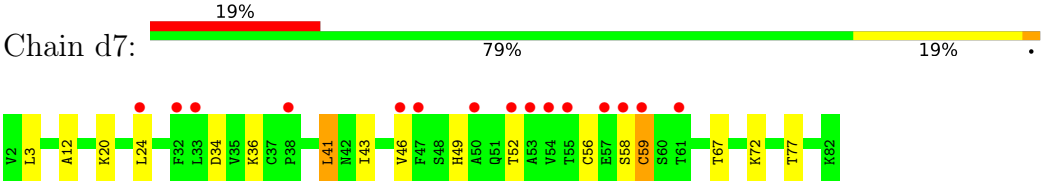
• Molecule 29: 40S ribosomal protein S27-A

Chain D7:



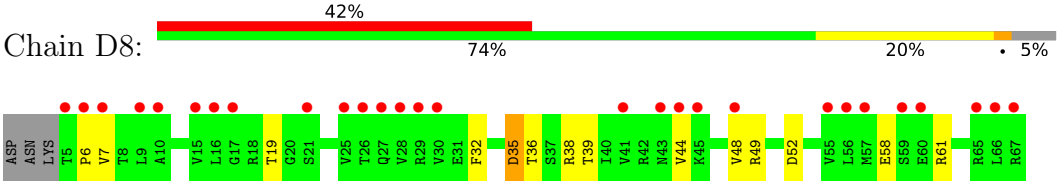
• Molecule 29: 40S ribosomal protein S27-A

Chain d7:



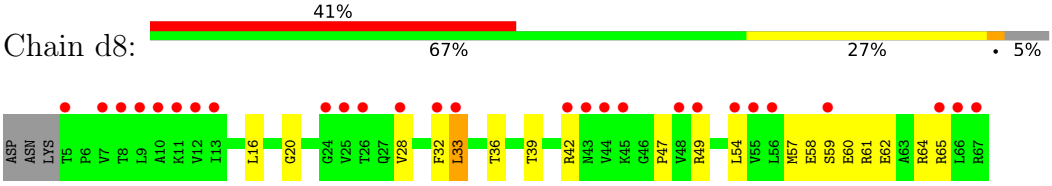
• Molecule 30: 40S ribosomal protein S28-A

Chain D8:



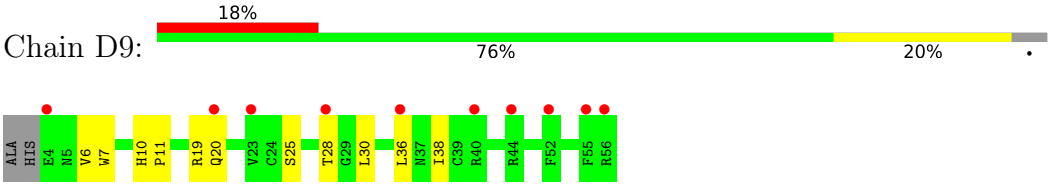
• Molecule 30: 40S ribosomal protein S28-A

Chain d8:



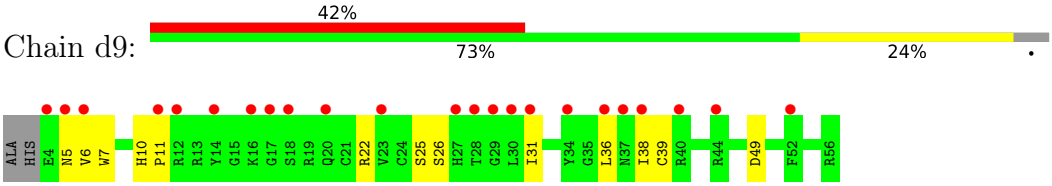
• Molecule 31: 40S ribosomal protein S29-A

Chain D9:



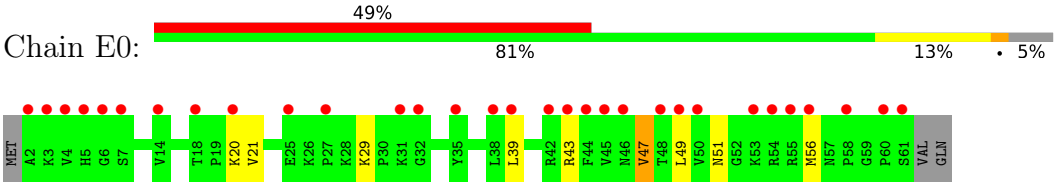
• Molecule 31: 40S ribosomal protein S29-A

Chain d9:



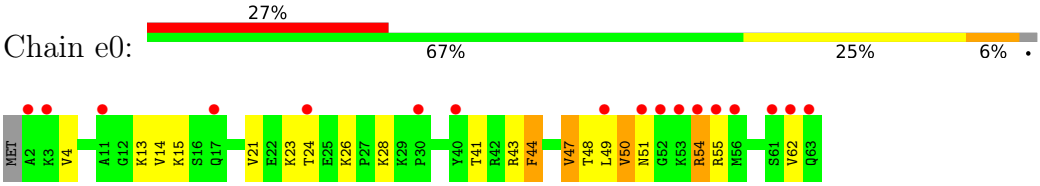
• Molecule 32: 40S ribosomal protein S30-A

Chain E0:



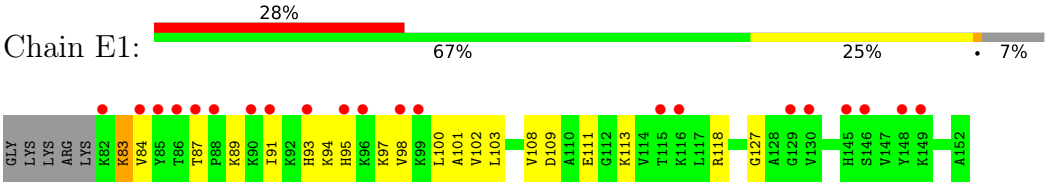
• Molecule 32: 40S ribosomal protein S30-A

Chain e0:



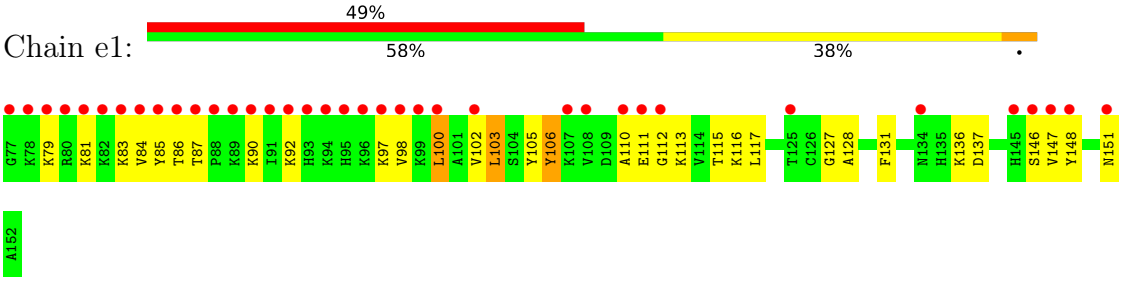
• Molecule 33: Ubiquitin-40S ribosomal protein S31

Chain E1:



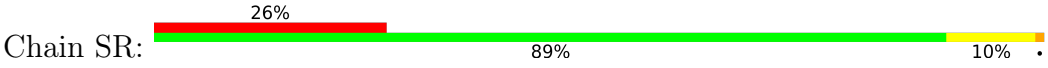
• Molecule 33: Ubiquitin-40S ribosomal protein S31

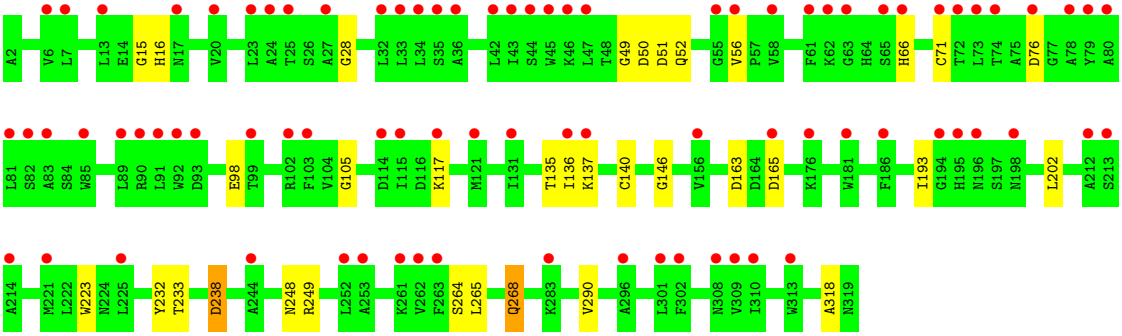
Chain e1:



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

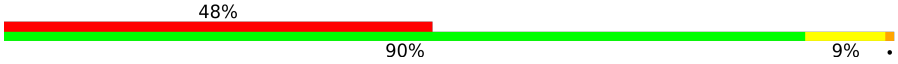
Chain SR:

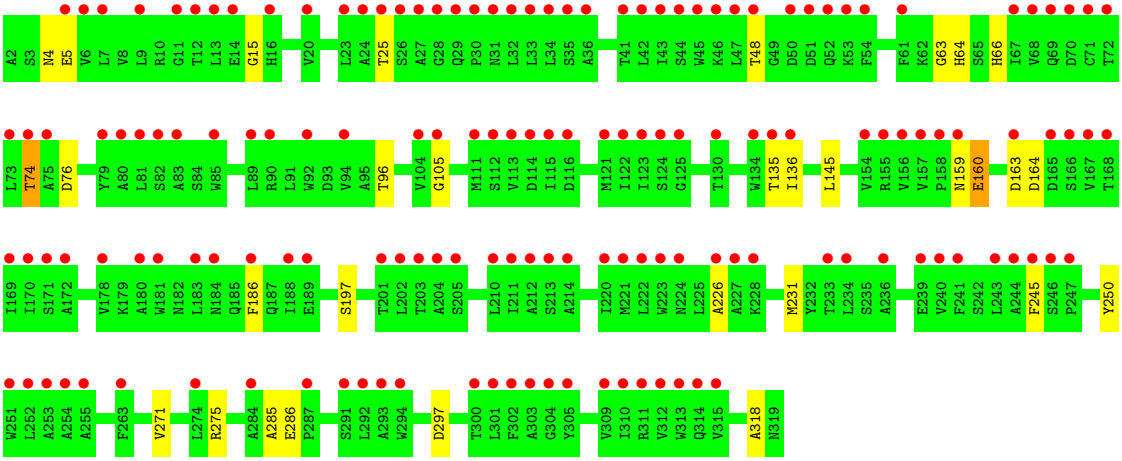




• Molecule 34: Guanine nucleotide-binding protein subunit beta-like protein

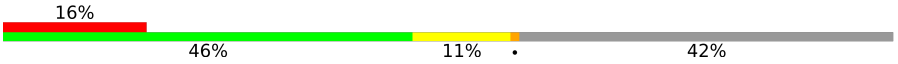
Chain sR:

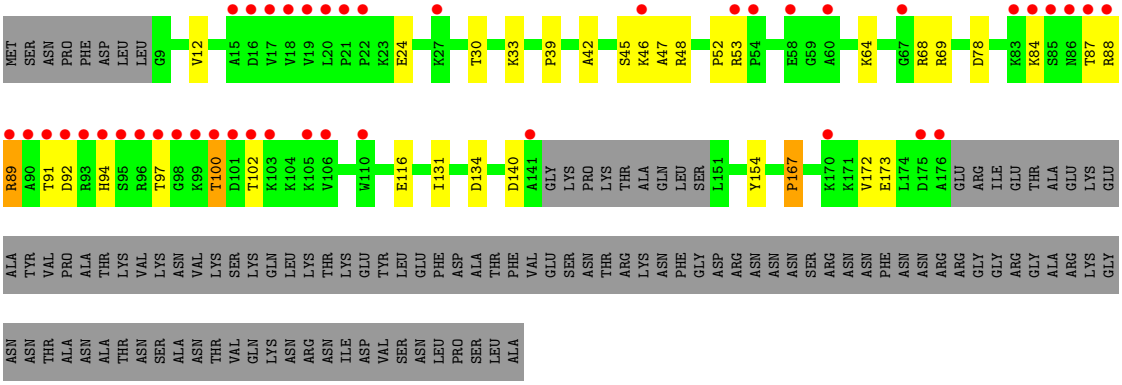




• Molecule 35: Suppressor protein STM1

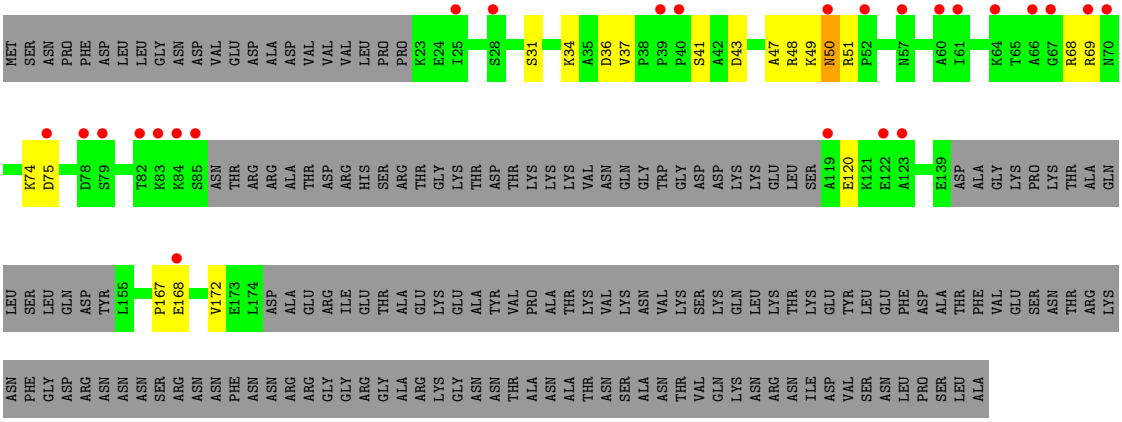
Chain SM:





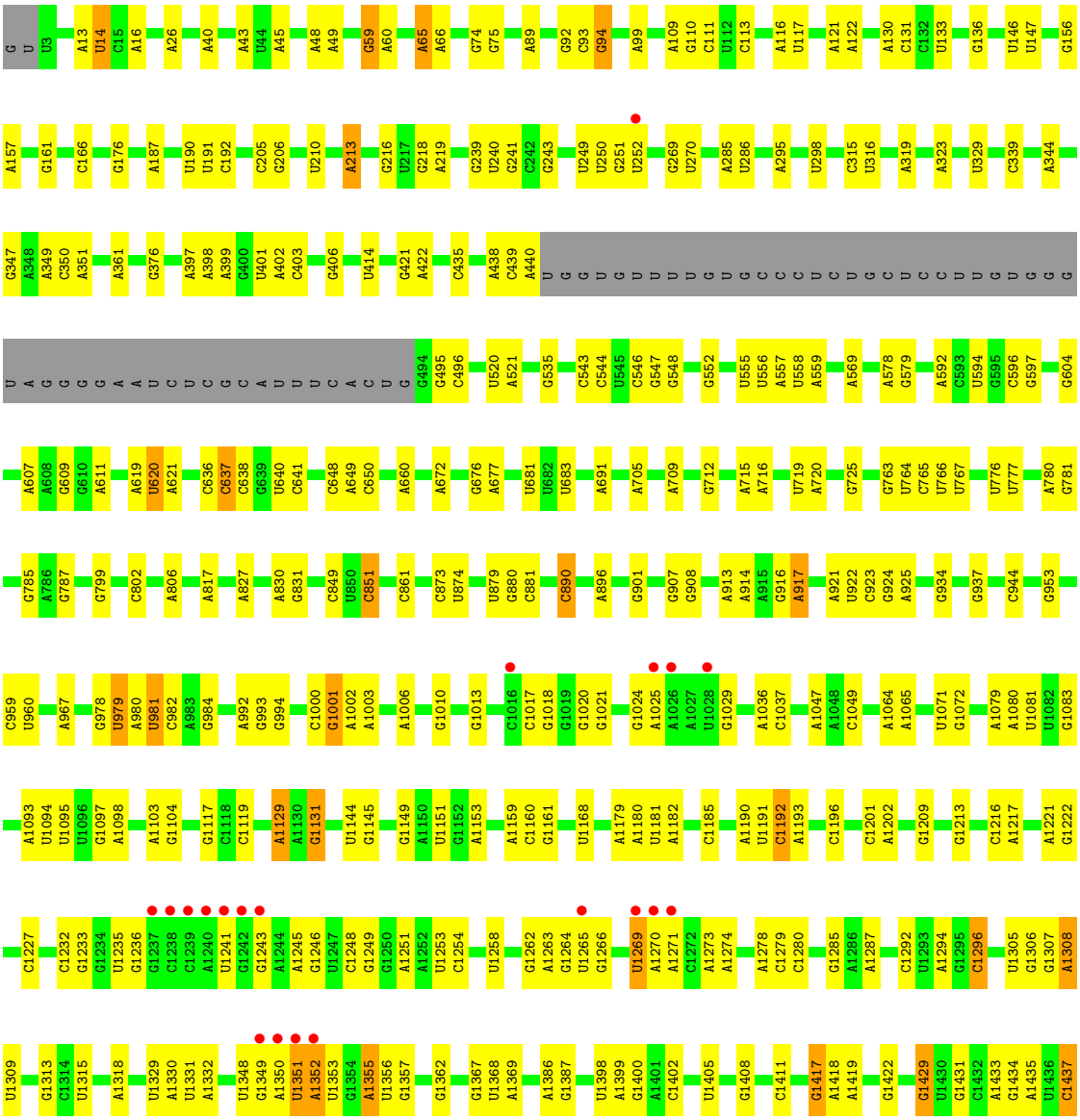
• Molecule 35: Suppressor protein STM1

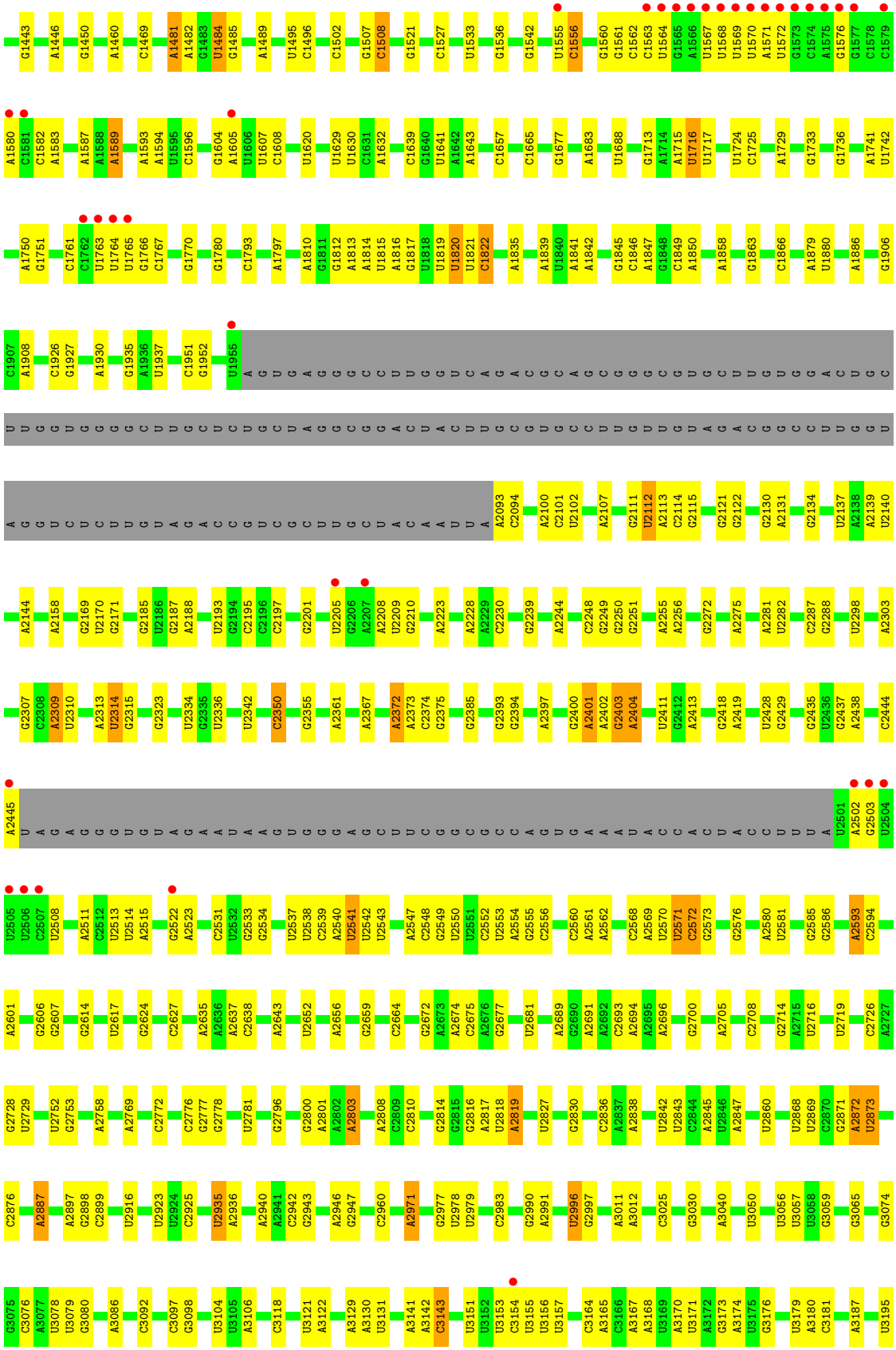
Chain sM:

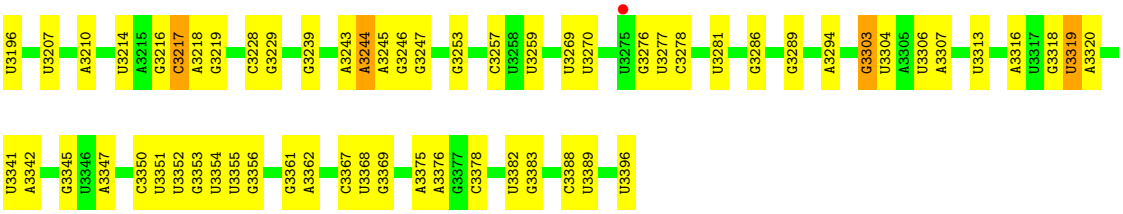


• Molecule 36: 25S ribosomal RNA

Chain 1:

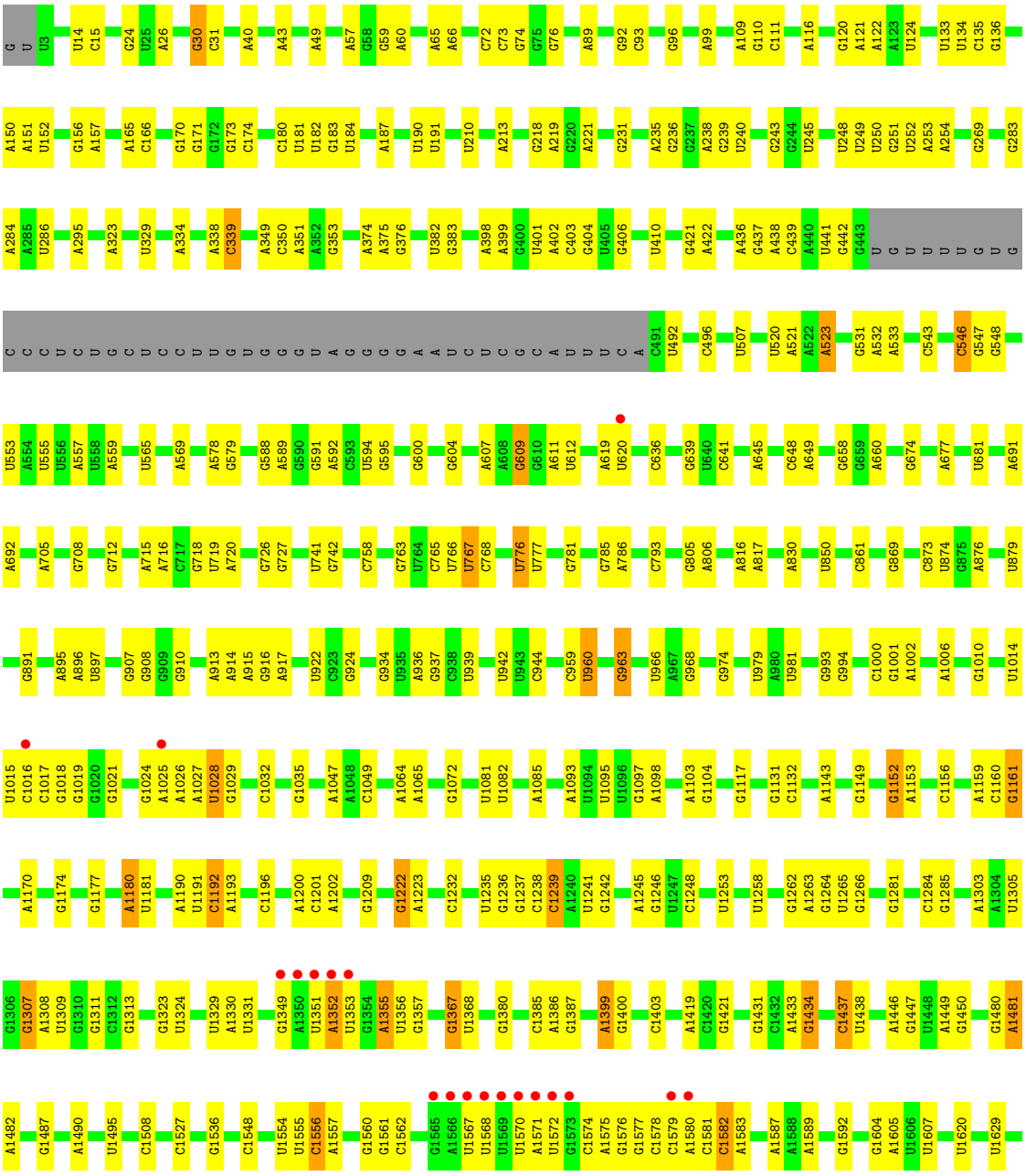


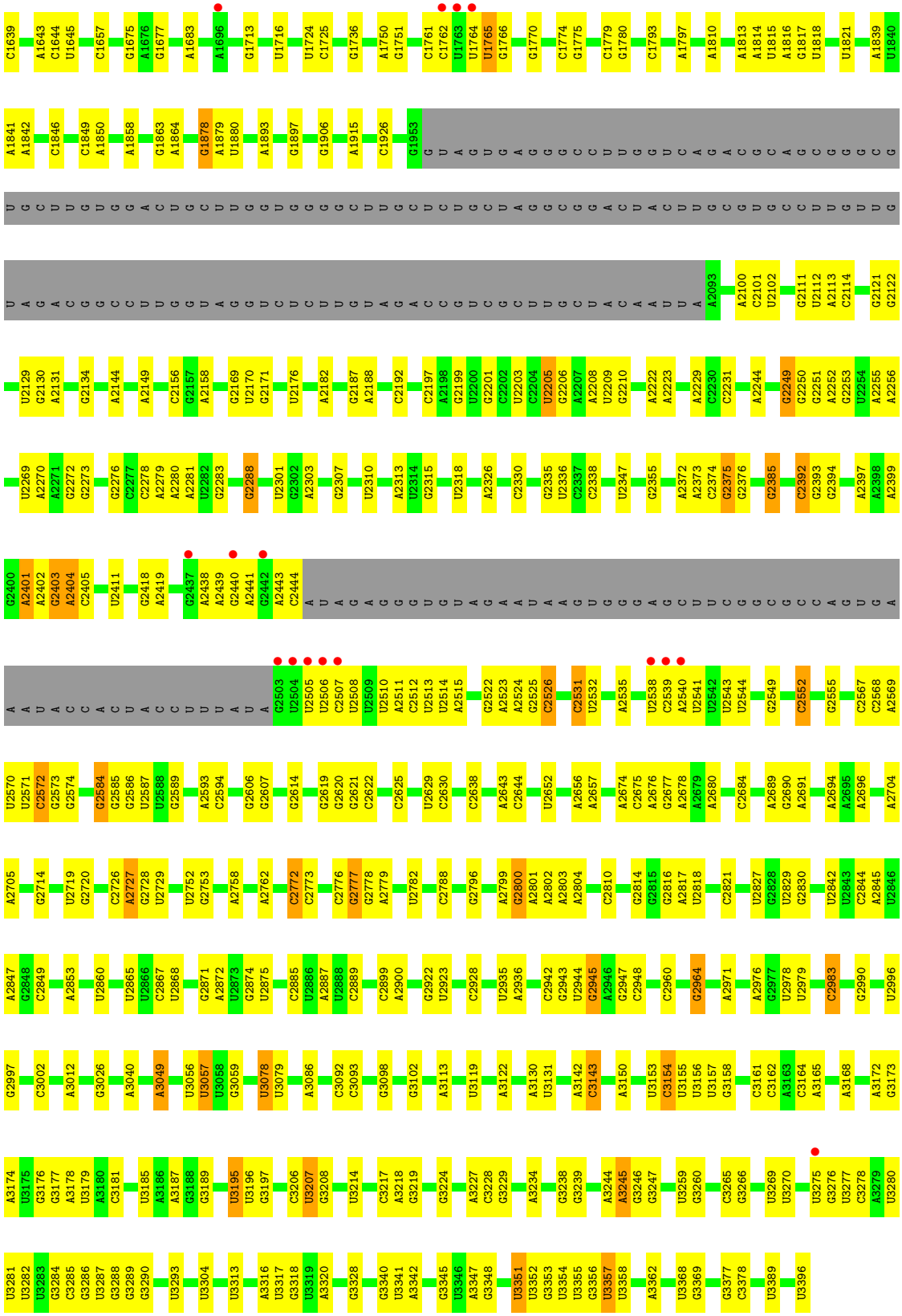




• Molecule 36: 25S ribosomal RNA

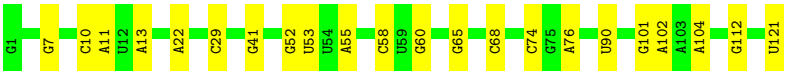
Chain 5:





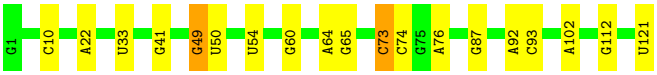
• Molecule 37: 5S ribosomal RNA

Chain 3:



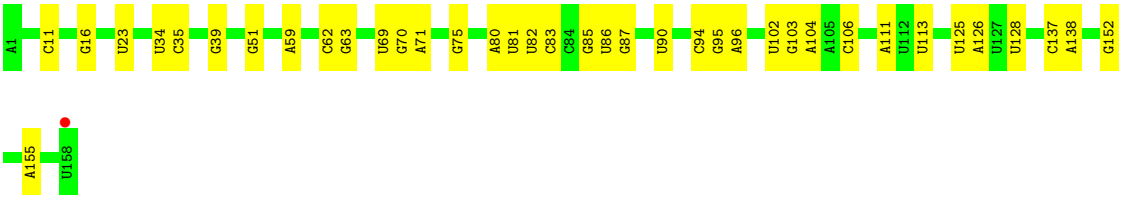
• Molecule 37: 5S ribosomal RNA

Chain 7:



• Molecule 38: 5.8S ribosomal RNA

Chain 4:

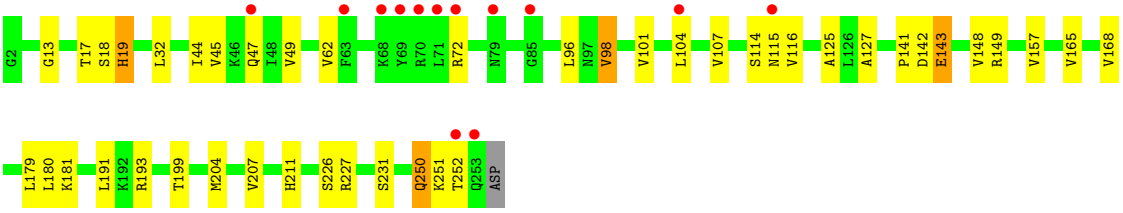


• Molecule 38: 5.8S ribosomal RNA

Chain 8:

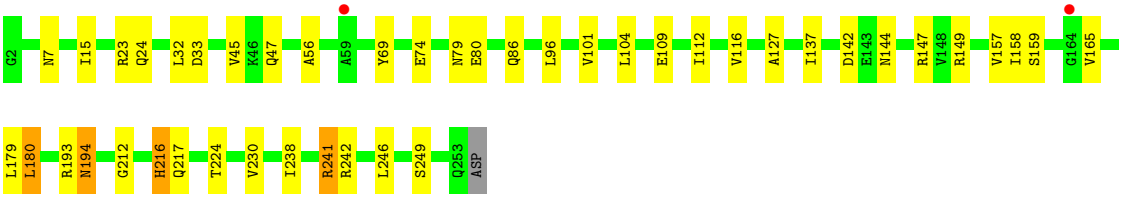
• Molecule 39: 60S ribosomal protein L2-A

Chain L2:



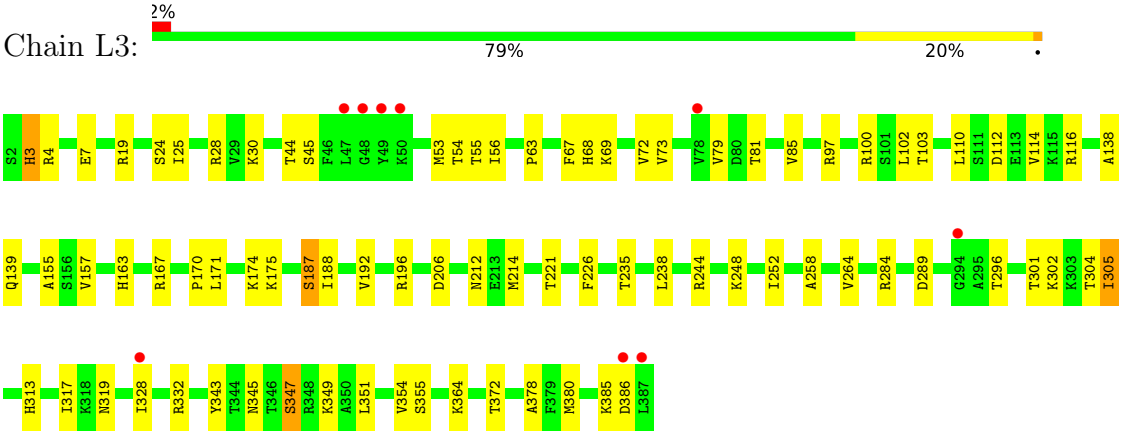
• Molecule 39: 60S ribosomal protein L2-A

Chain l2:



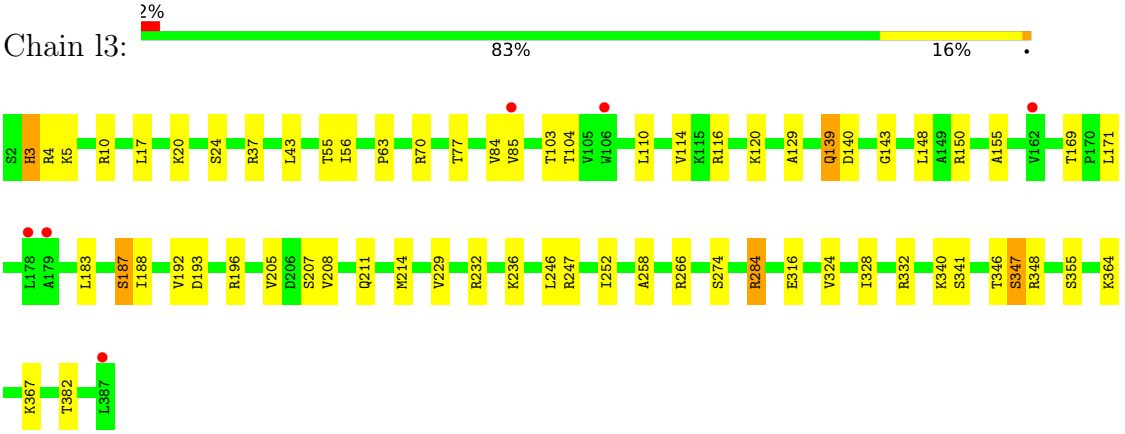
• Molecule 40: 60S ribosomal protein L3

Chain L3:



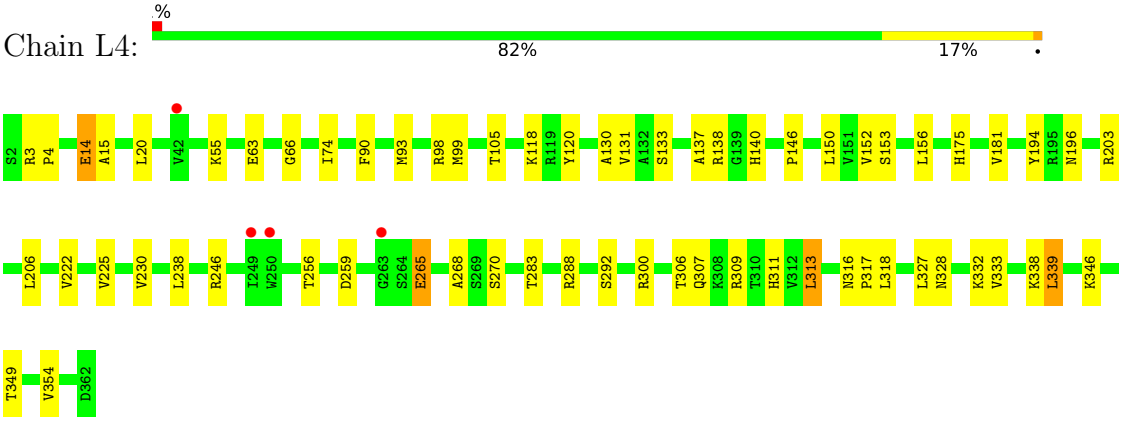
• Molecule 40: 60S ribosomal protein L3

Chain l3:



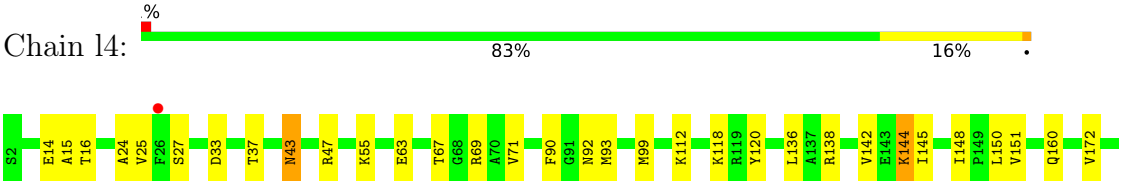
• Molecule 41: 60S ribosomal protein L4-A

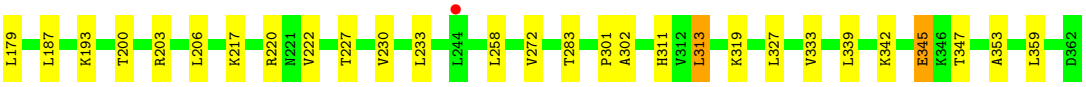
Chain L4:



• Molecule 41: 60S ribosomal protein L4-A

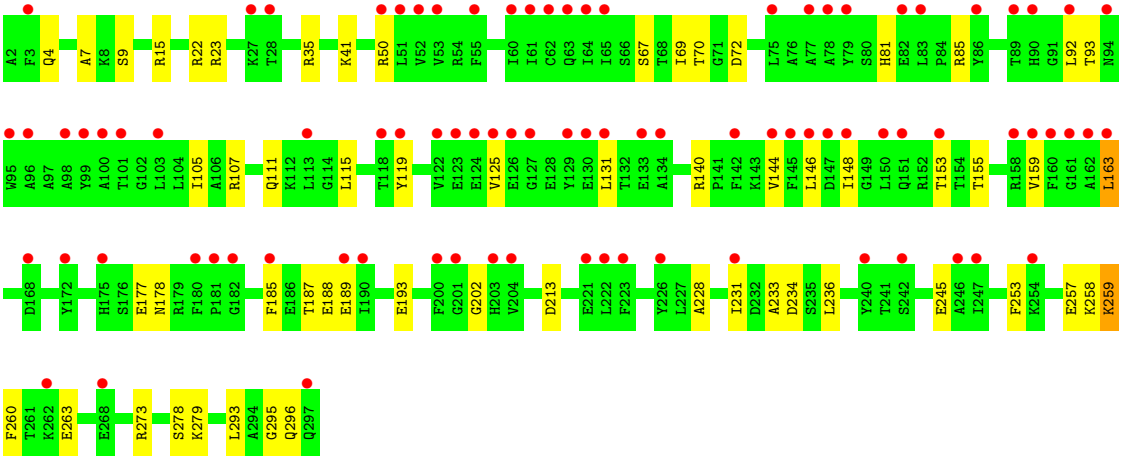
Chain l4:





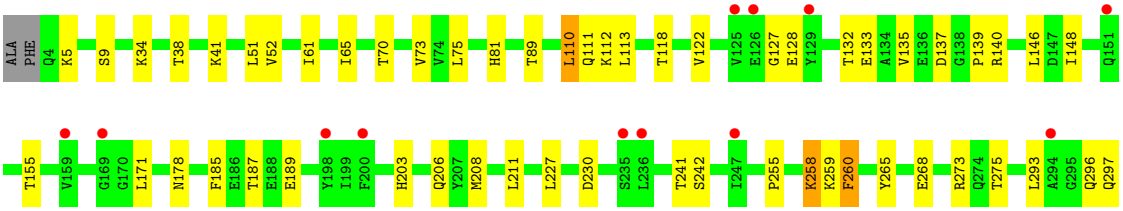
• Molecule 42: 60S ribosomal protein L5

Chain L5:



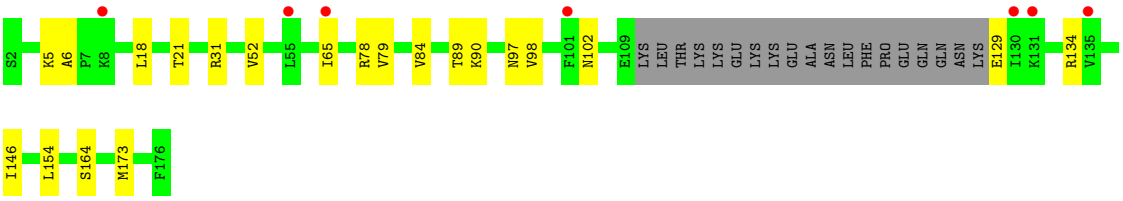
• Molecule 42: 60S ribosomal protein L5

Chain l5:



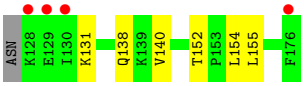
• Molecule 43: 60S ribosomal protein L6-A

Chain L6:



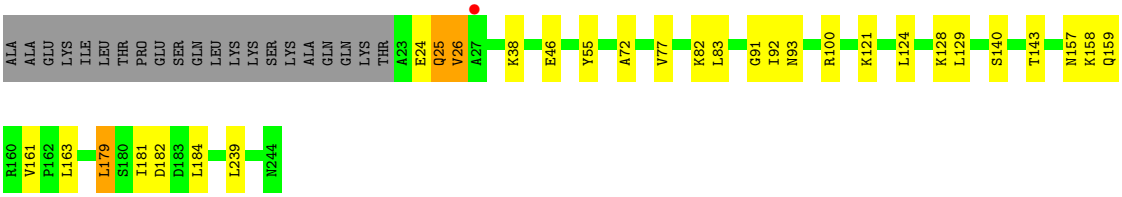
• Molecule 43: 60S ribosomal protein L6-A

Chain l6:



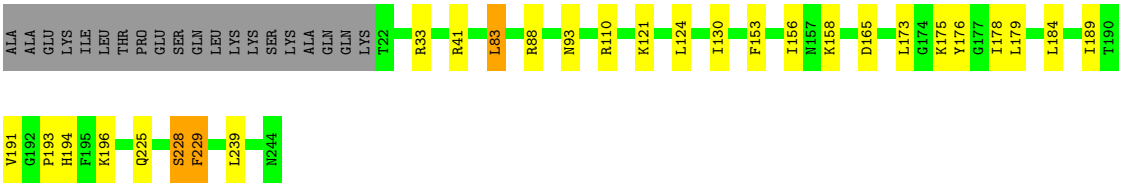
• Molecule 44: 60S ribosomal protein L7-A

Chain L7:



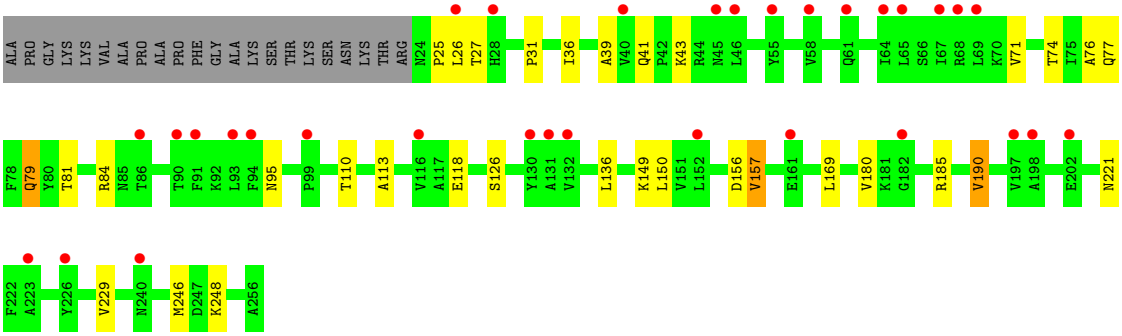
• Molecule 44: 60S ribosomal protein L7-A

Chain l7:



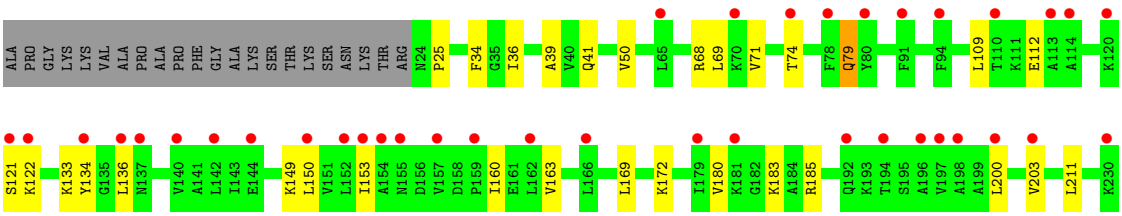
• Molecule 45: 60S ribosomal protein L8-A

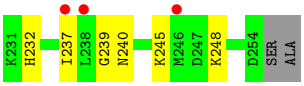
Chain L8:



• Molecule 45: 60S ribosomal protein L8-A

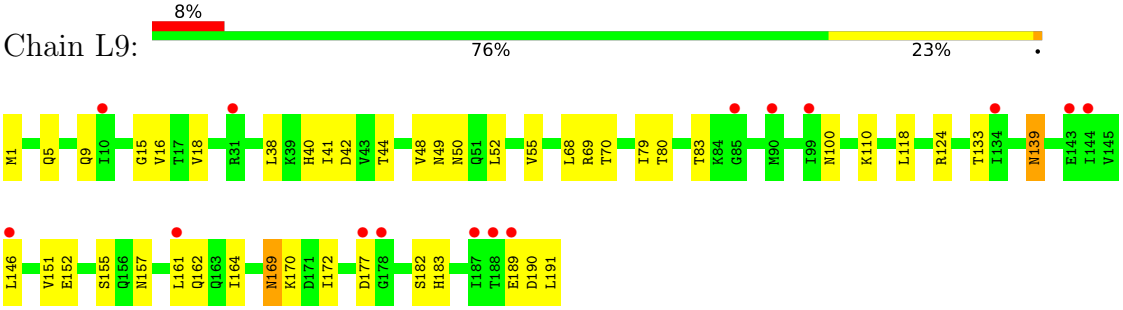
Chain l8:





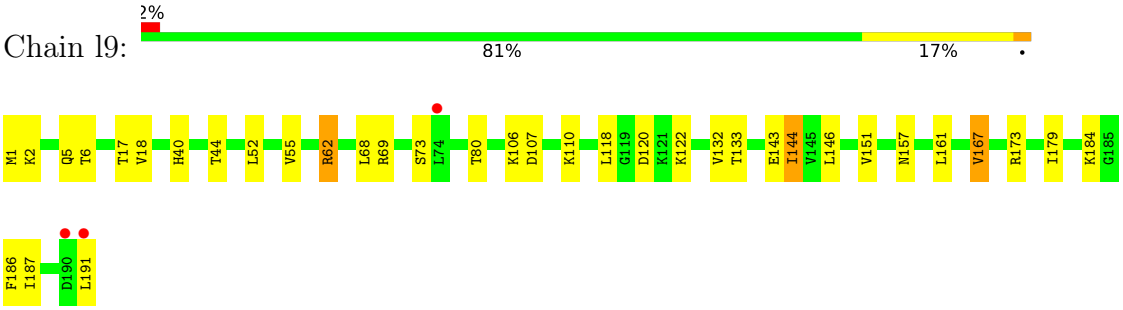
• Molecule 46: 60S ribosomal protein L9-A

Chain L9:



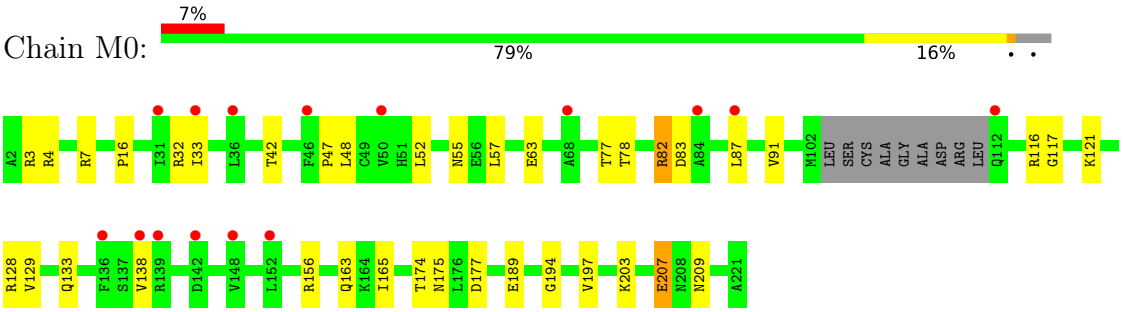
• Molecule 46: 60S ribosomal protein L9-A

Chain l9:



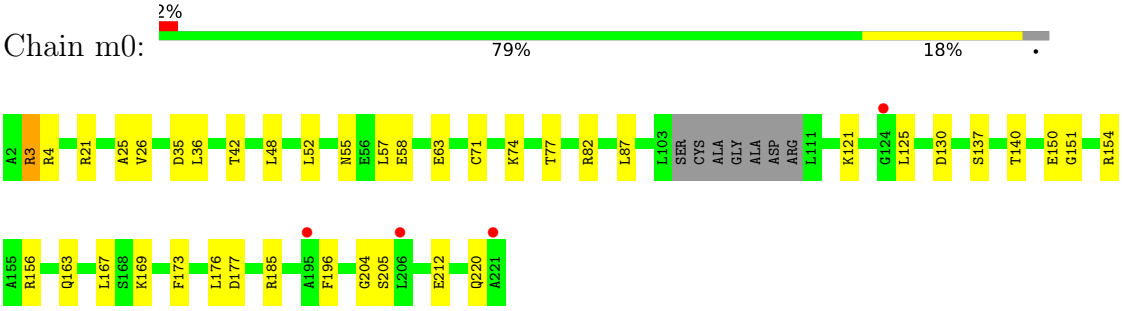
• Molecule 47: 60S ribosomal protein L10

Chain M0:



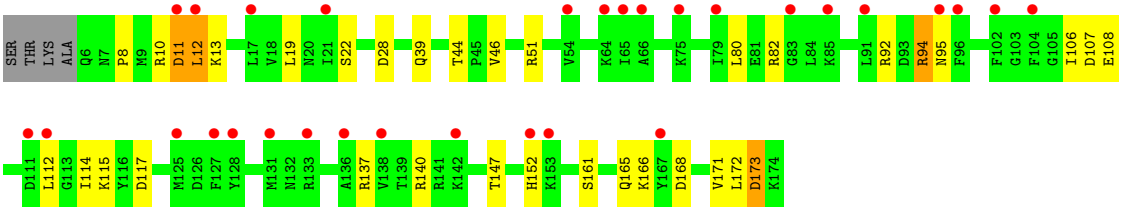
• Molecule 47: 60S ribosomal protein L10

Chain m0:



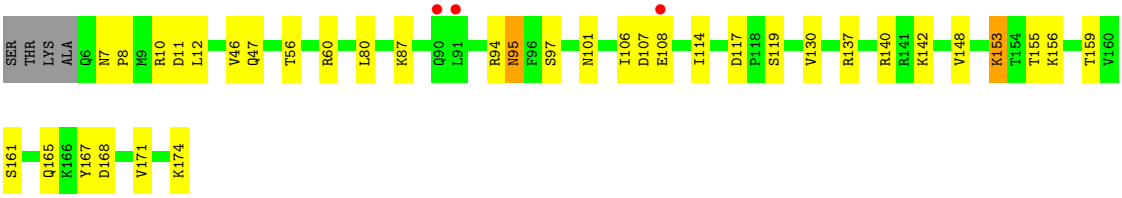
• Molecule 48: 60S ribosomal protein L11-A

Chain M1:



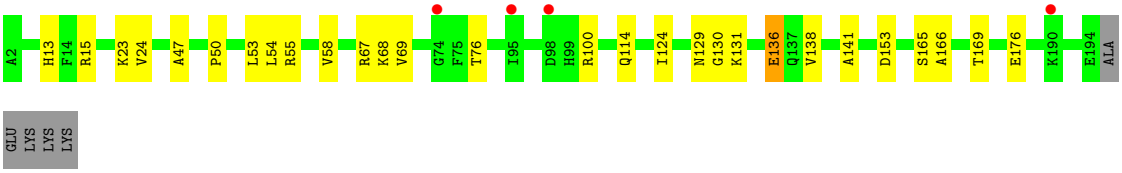
• Molecule 48: 60S ribosomal protein L11-A

Chain m1:



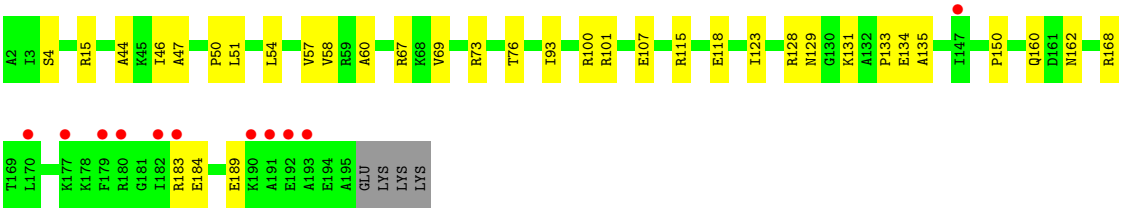
• Molecule 49: 60S ribosomal protein L13-A

Chain M3:



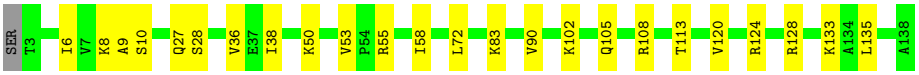
• Molecule 49: 60S ribosomal protein L13-A

Chain m3:



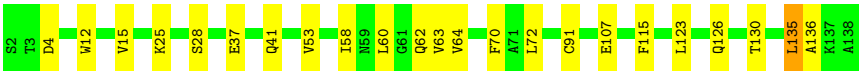
• Molecule 50: 60S ribosomal protein L14-A

Chain M4:



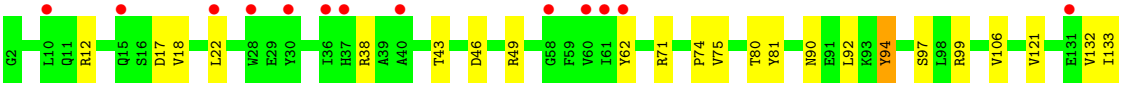
• Molecule 50: 60S ribosomal protein L14-A

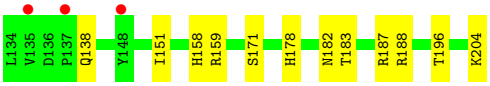
Chain m4:



• Molecule 51: 60S ribosomal protein L15-A

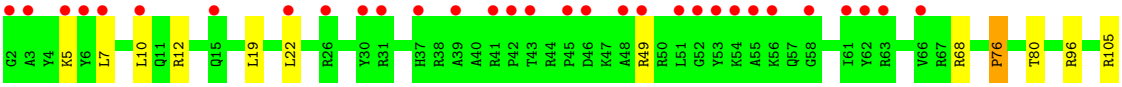
Chain M5:

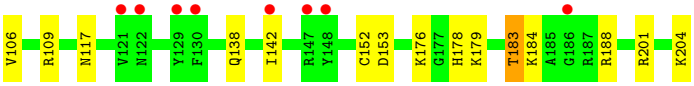




• Molecule 51: 60S ribosomal protein L15-A

Chain m5:



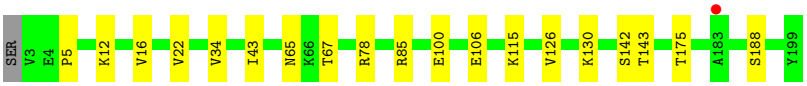


• Molecule 52: 60S ribosomal protein L16-A

Chain M6:

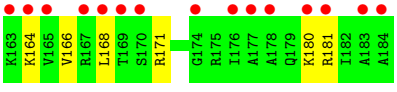
• Molecule 52: 60S ribosomal protein L16-A

Chain m6:



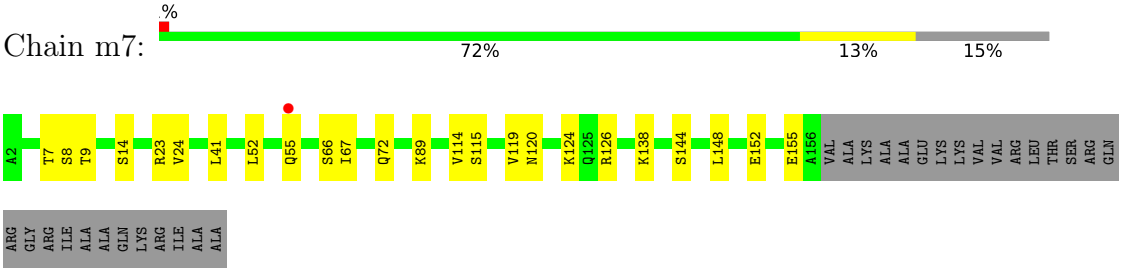
• Molecule 53: 60S ribosomal protein L17-A

Chain M7:



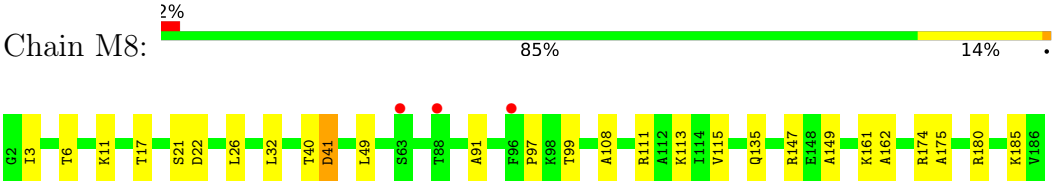
• Molecule 53: 60S ribosomal protein L17-A

Chain m7:



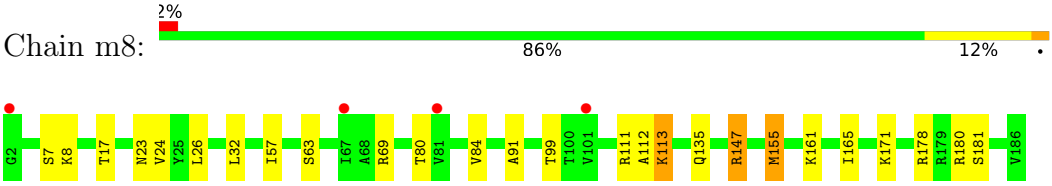
• Molecule 54: 60S ribosomal protein L18-A

Chain M8:



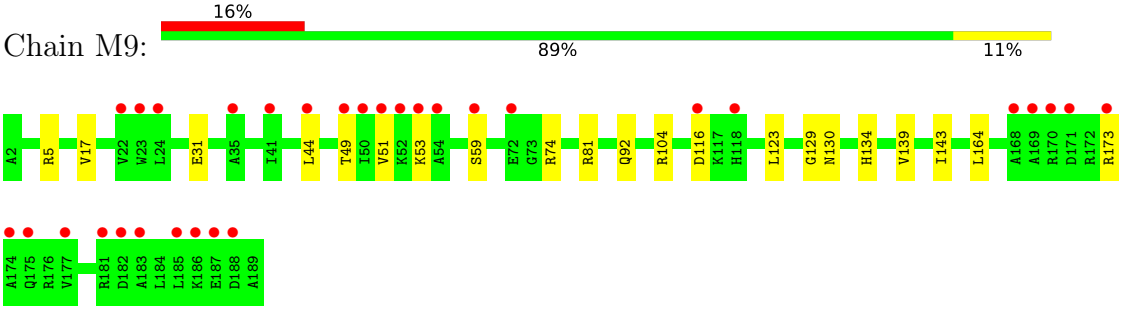
• Molecule 54: 60S ribosomal protein L18-A

Chain m8:



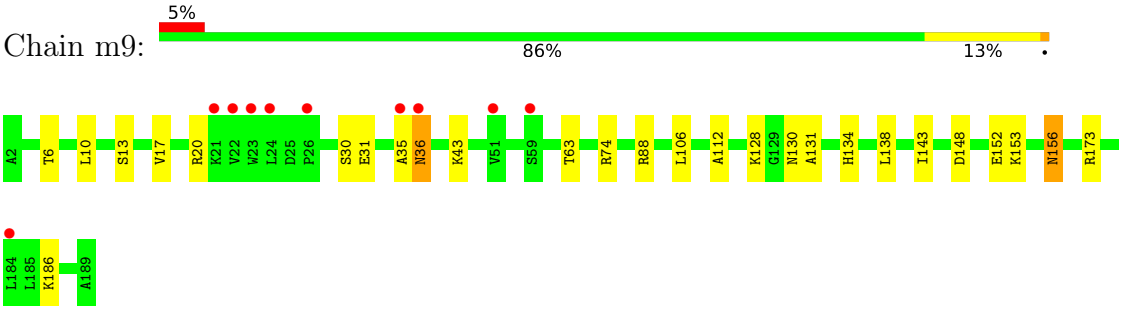
• Molecule 55: 60S ribosomal protein L19-A

Chain M9:



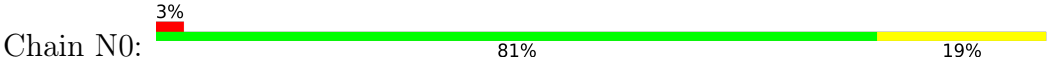
• Molecule 55: 60S ribosomal protein L19-A

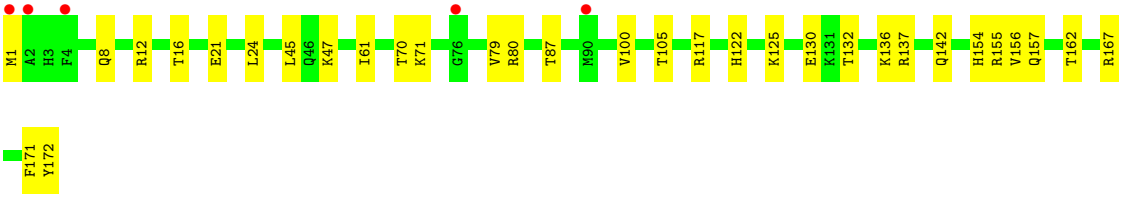
Chain m9:



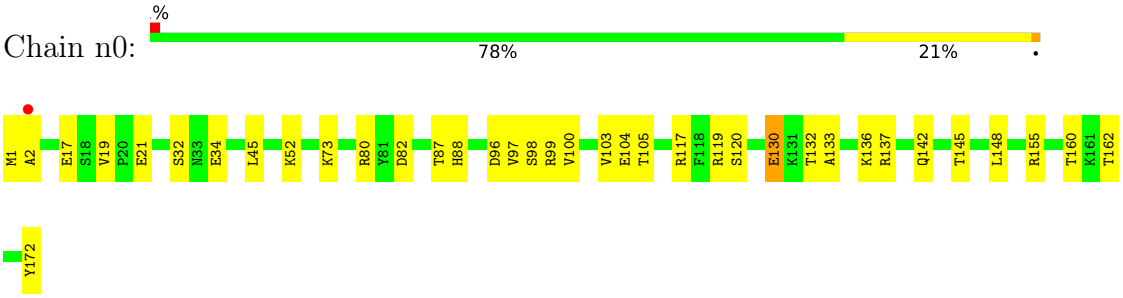
• Molecule 56: 60S ribosomal protein L20-A

Chain N0:

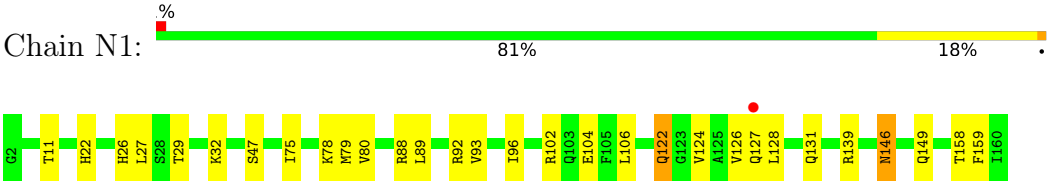




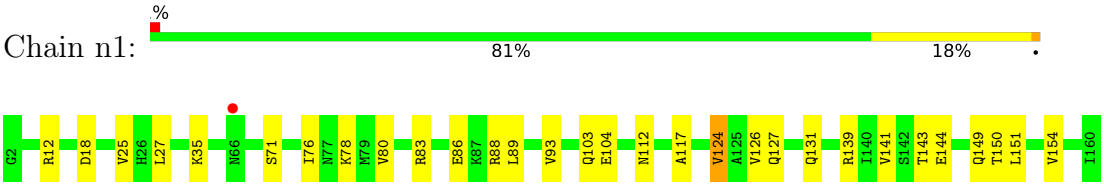
• Molecule 56: 60S ribosomal protein L20-A



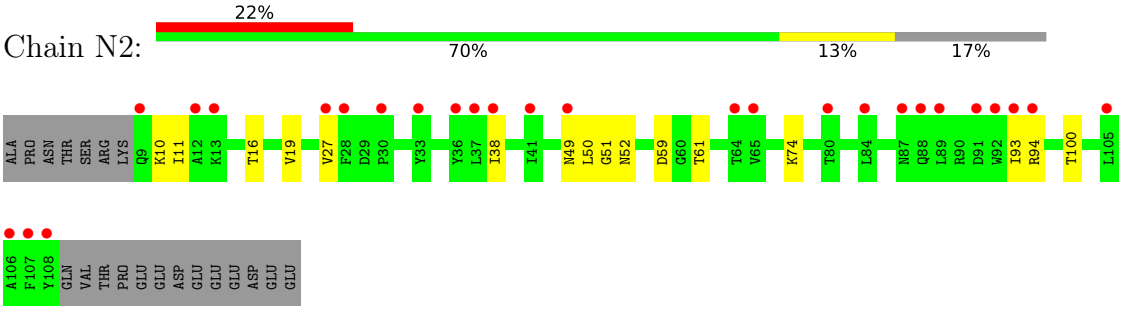
• Molecule 57: 60S ribosomal protein L21-A



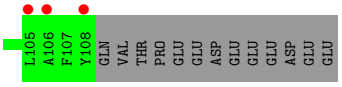
• Molecule 57: 60S ribosomal protein L21-A



• Molecule 58: 60S ribosomal protein L22-A

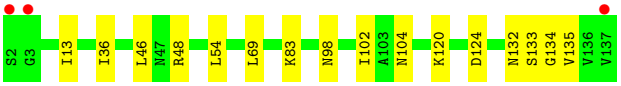


• Molecule 58: 60S ribosomal protein L22-A



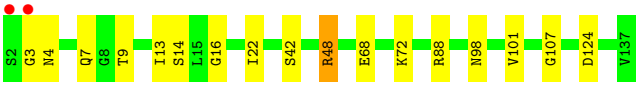
• Molecule 59: 60S ribosomal protein L23-A

Chain N3:



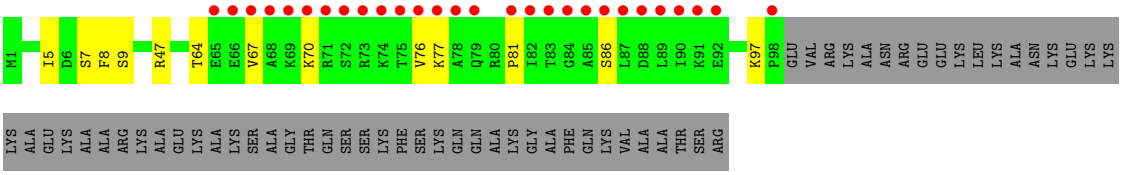
• Molecule 59: 60S ribosomal protein L23-A

Chain n3:



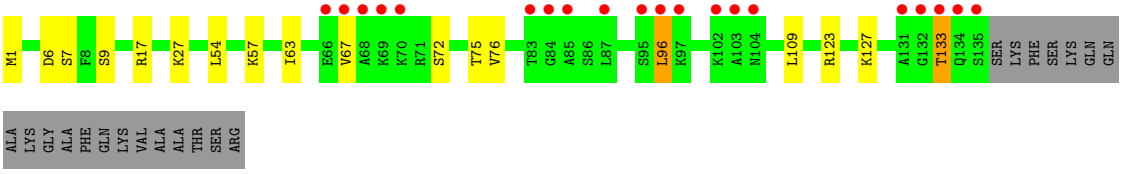
• Molecule 60: 60S ribosomal protein L24-A

Chain N4:



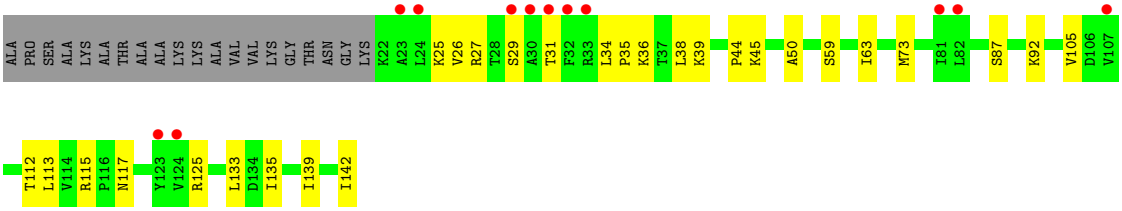
• Molecule 60: 60S ribosomal protein L24-A

Chain n4:



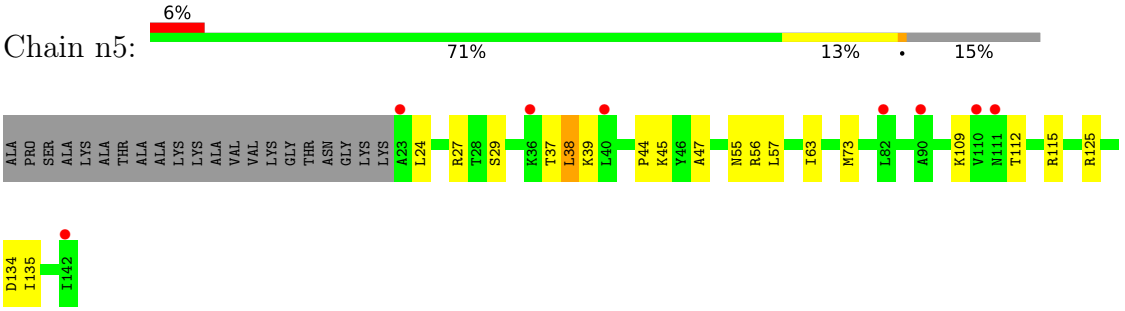
• Molecule 61: 60S ribosomal protein L25

Chain N5:



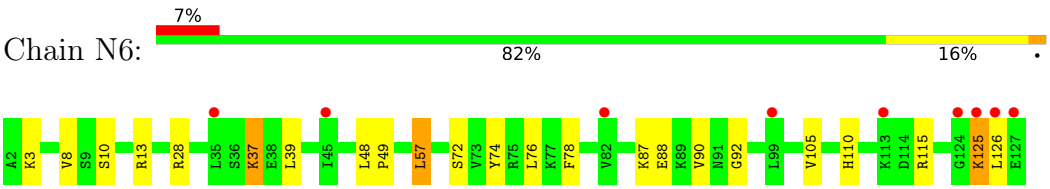
• Molecule 61: 60S ribosomal protein L25

Chain n5:



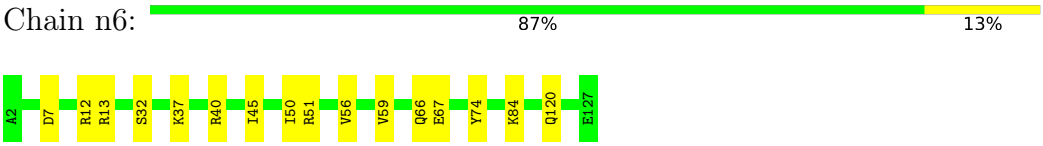
• Molecule 62: 60S ribosomal protein L26-A

Chain N6:



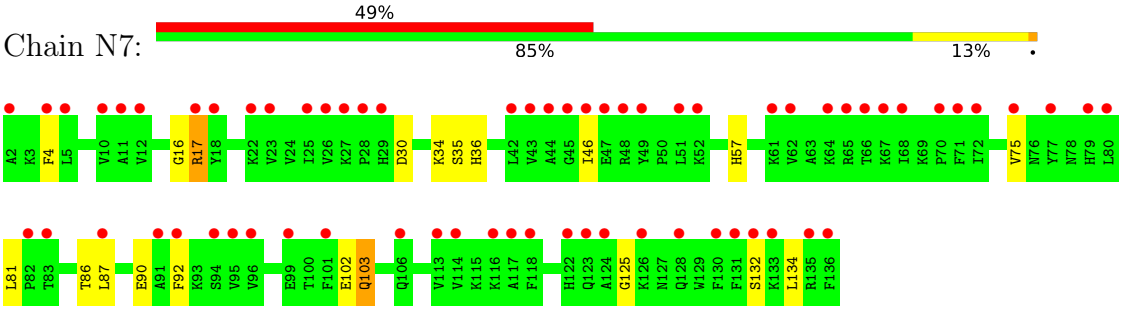
• Molecule 62: 60S ribosomal protein L26-A

Chain n6:



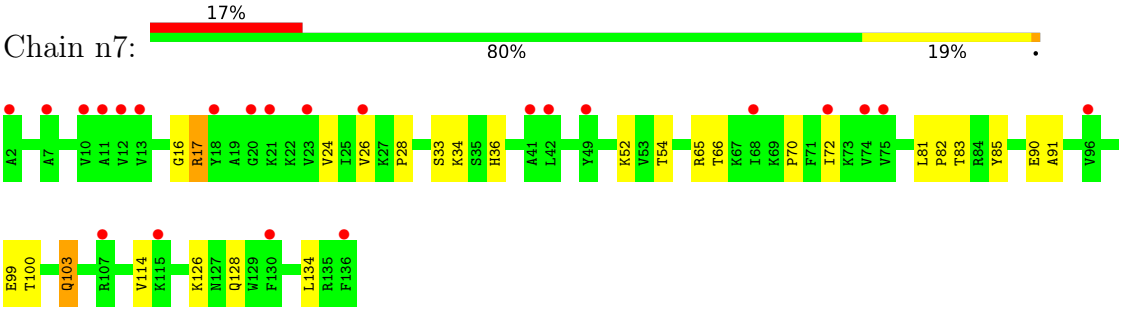
• Molecule 63: 60S ribosomal protein L27-A

Chain N7:



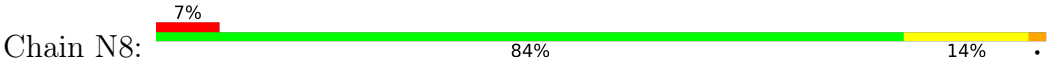
• Molecule 63: 60S ribosomal protein L27-A

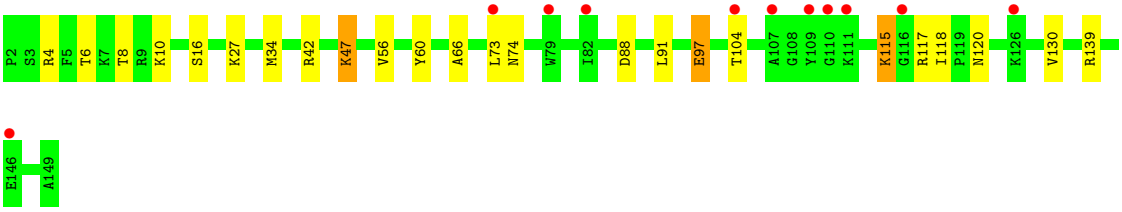
Chain n7:



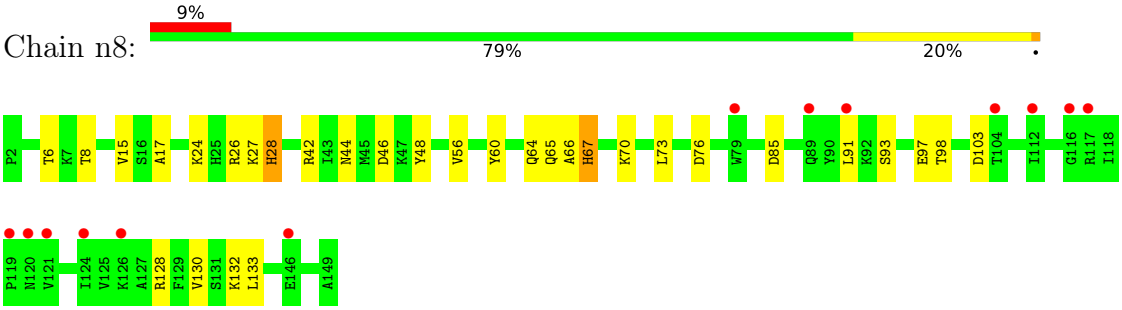
• Molecule 64: 60S ribosomal protein L28

Chain N8:

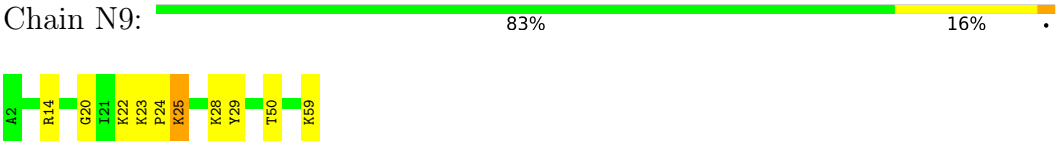




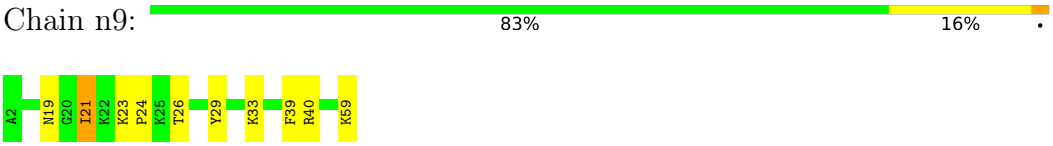
• Molecule 64: 60S ribosomal protein L28



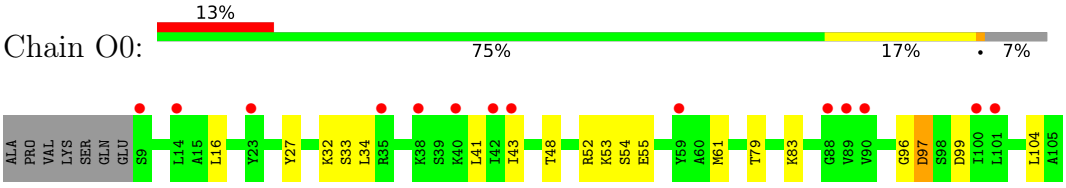
• Molecule 65: 60S ribosomal protein L29



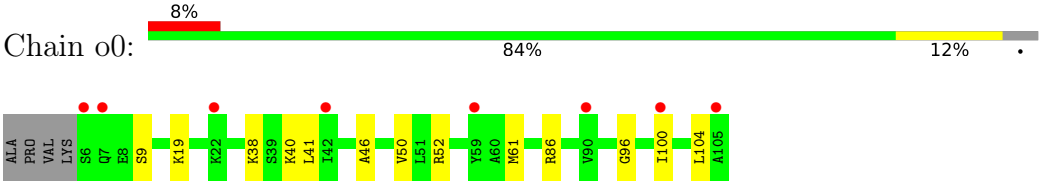
• Molecule 65: 60S ribosomal protein L29



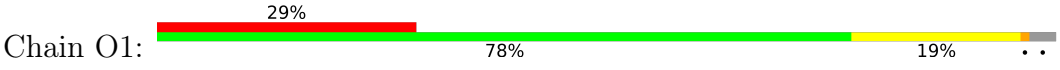
• Molecule 66: 60S ribosomal protein L30

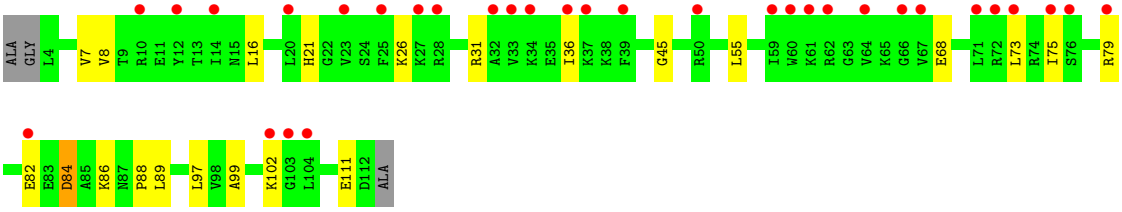


• Molecule 66: 60S ribosomal protein L30

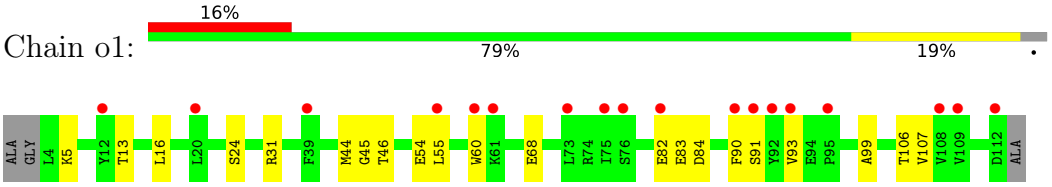


• Molecule 67: 60S ribosomal protein L31-A

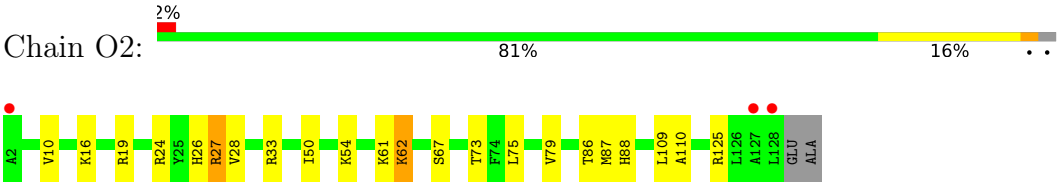




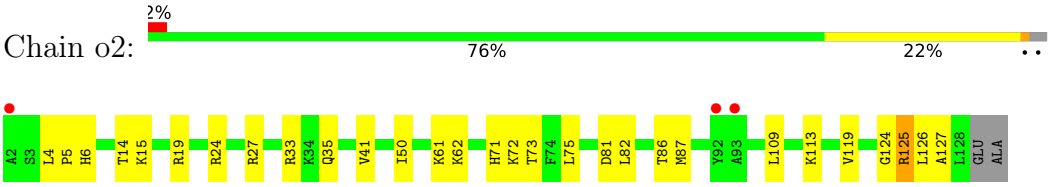
• Molecule 67: 60S ribosomal protein L31-A



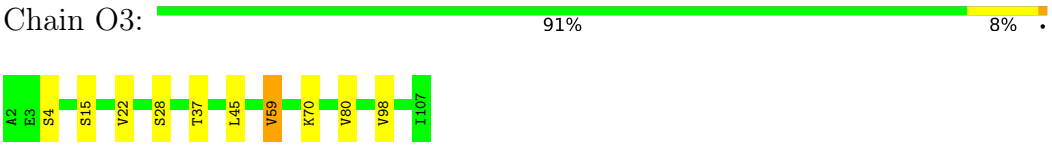
• Molecule 68: 60S ribosomal protein L32



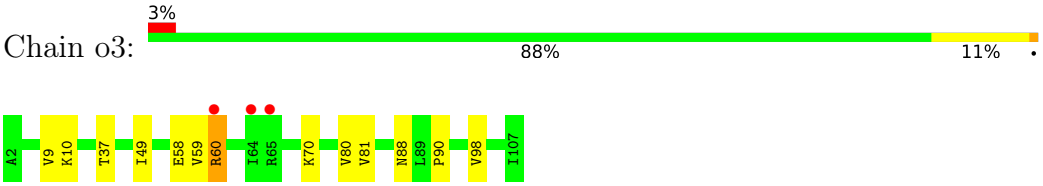
• Molecule 68: 60S ribosomal protein L32



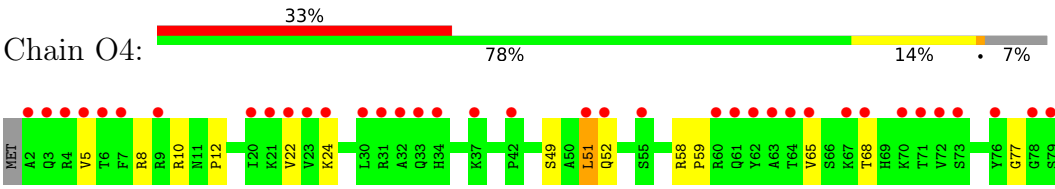
• Molecule 69: 60S ribosomal protein L33-A

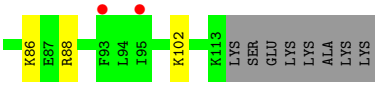


• Molecule 69: 60S ribosomal protein L33-A



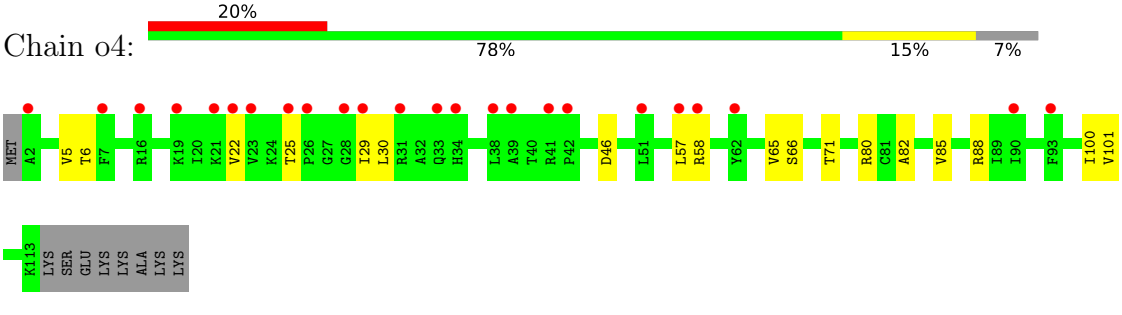
• Molecule 70: 60S ribosomal protein L34-A





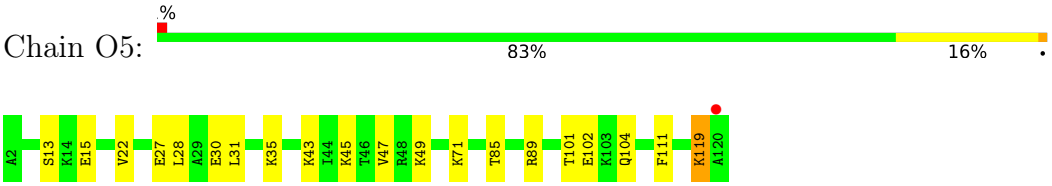
• Molecule 70: 60S ribosomal protein L34-A

Chain o4:



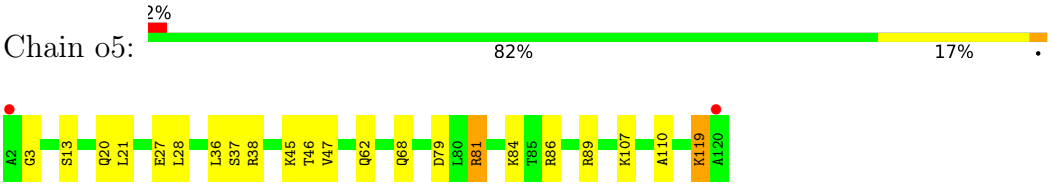
• Molecule 71: 60S ribosomal protein L35-A

Chain O5:



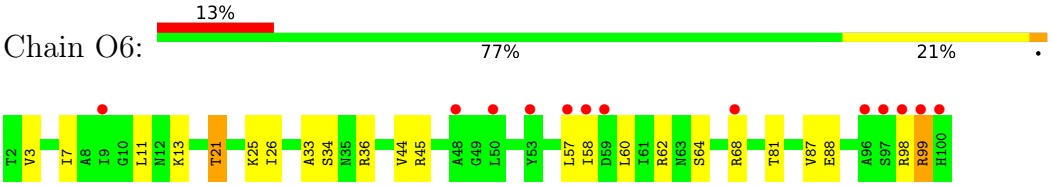
• Molecule 71: 60S ribosomal protein L35-A

Chain o5:



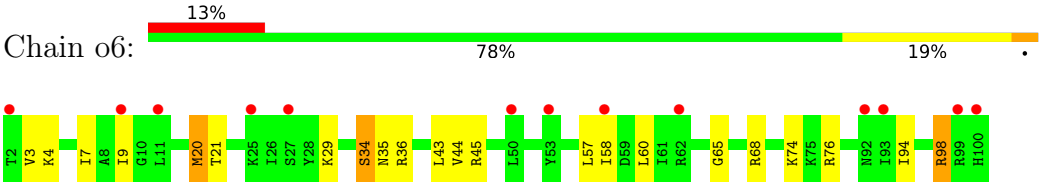
• Molecule 72: 60S ribosomal protein L36-A

Chain O6:



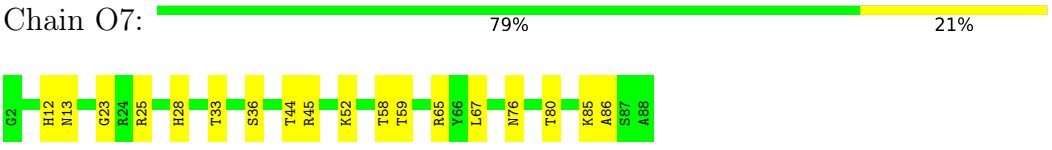
• Molecule 72: 60S ribosomal protein L36-A

Chain o6:



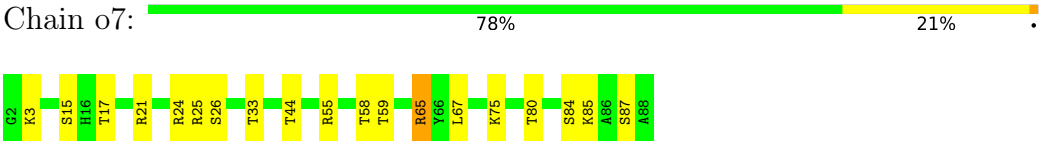
• Molecule 73: 60S ribosomal protein L37-A

Chain O7:



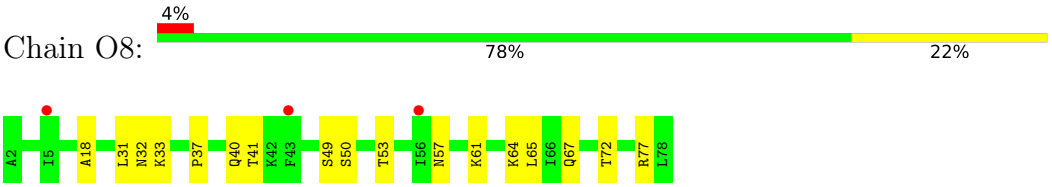
• Molecule 73: 60S ribosomal protein L37-A

Chain o7:



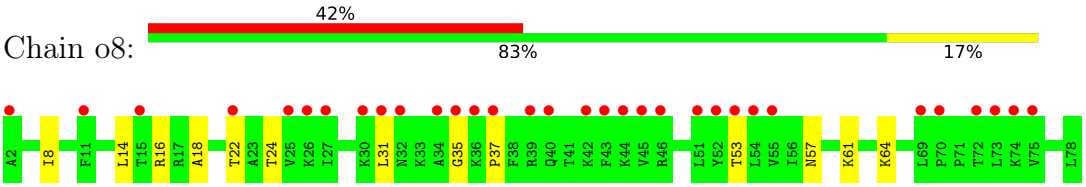
• Molecule 74: 60S ribosomal protein L38

Chain O8:



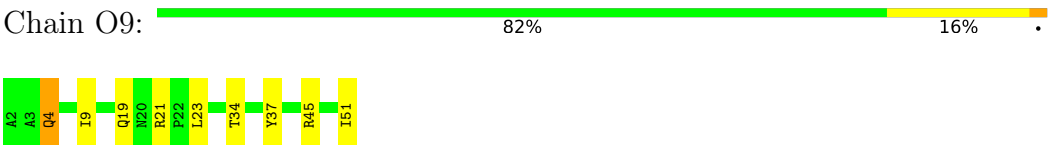
• Molecule 74: 60S ribosomal protein L38

Chain o8:



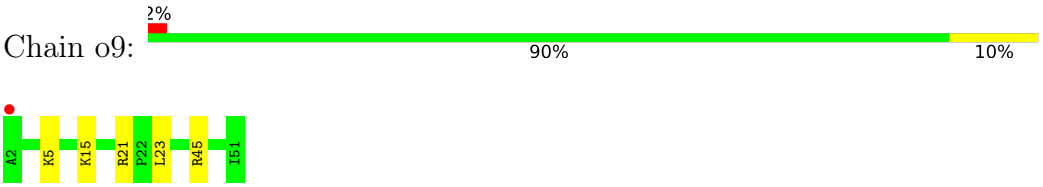
• Molecule 75: 60S ribosomal protein L39

Chain O9:



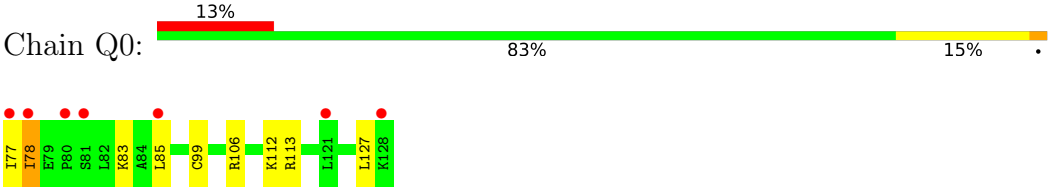
• Molecule 75: 60S ribosomal protein L39

Chain o9:



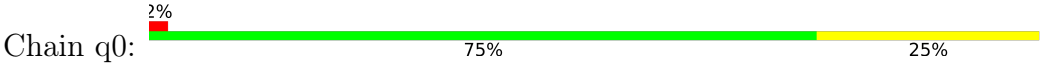
• Molecule 76: Ubiquitin-60S ribosomal protein L40

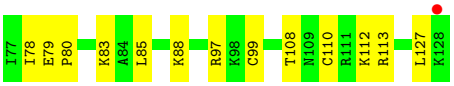
Chain Q0:



• Molecule 76: Ubiquitin-60S ribosomal protein L40

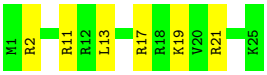
Chain q0:





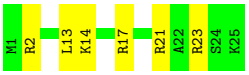
• Molecule 77: 60S ribosomal protein L41-A

Chain Q1:



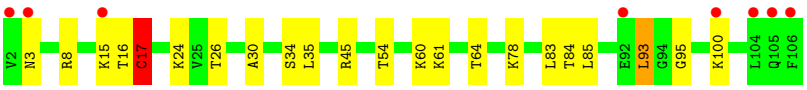
• Molecule 77: 60S ribosomal protein L41-A

Chain q1:



• Molecule 78: 60S ribosomal protein L42-A

Chain Q2:

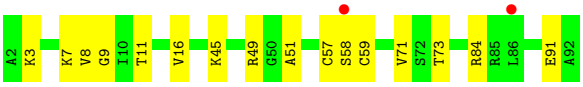


• Molecule 78: 60S ribosomal protein L42-A

Chain q2:

• Molecule 79: 60S ribosomal protein L43-A

Chain Q3:

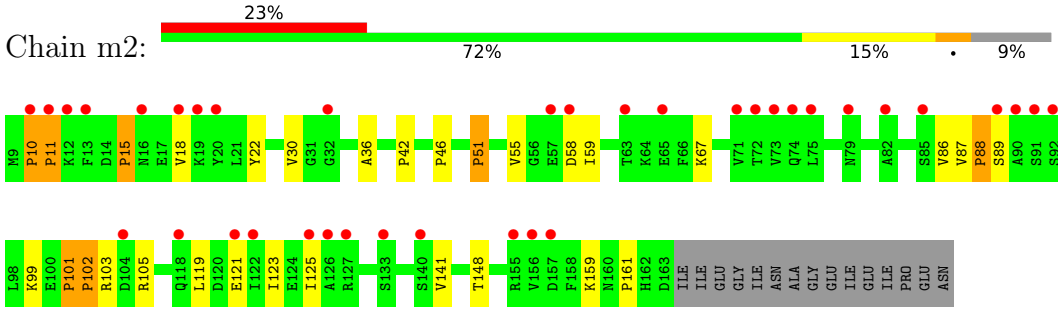


• Molecule 79: 60S ribosomal protein L43-A

Chain q3:

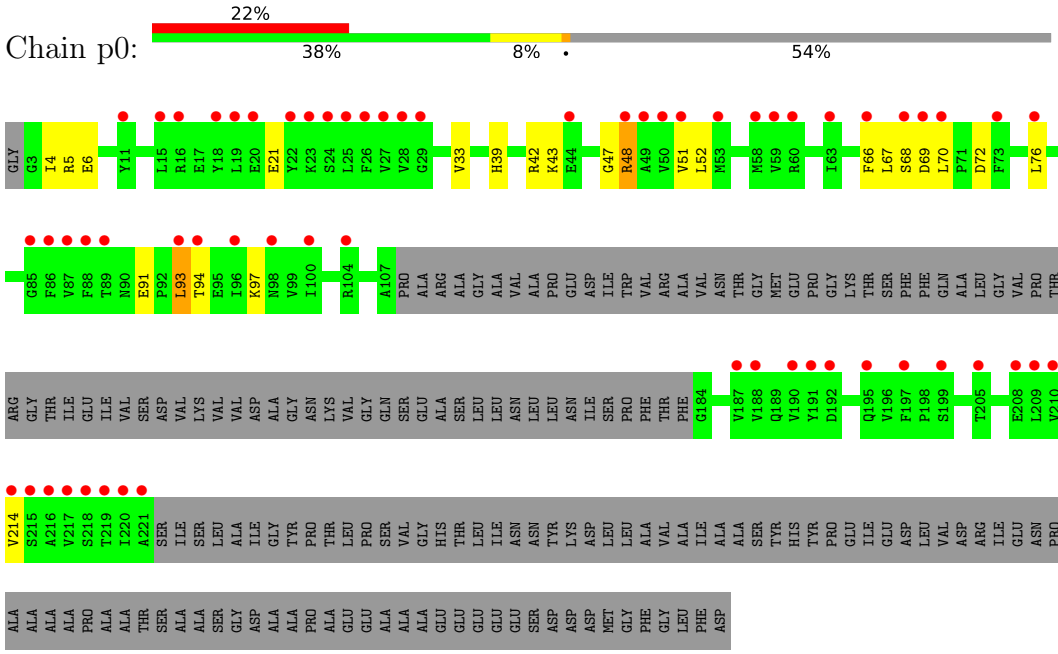
• Molecule 80: 60S ribosomal protein L12-A

Chain m2:



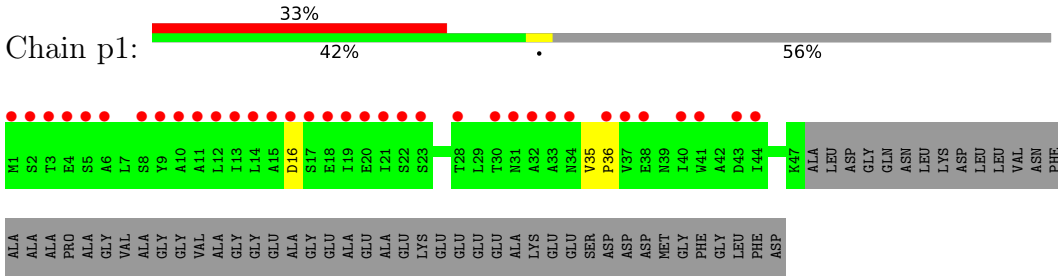
• Molecule 81: 60S acidic ribosomal protein P0

Chain p0:



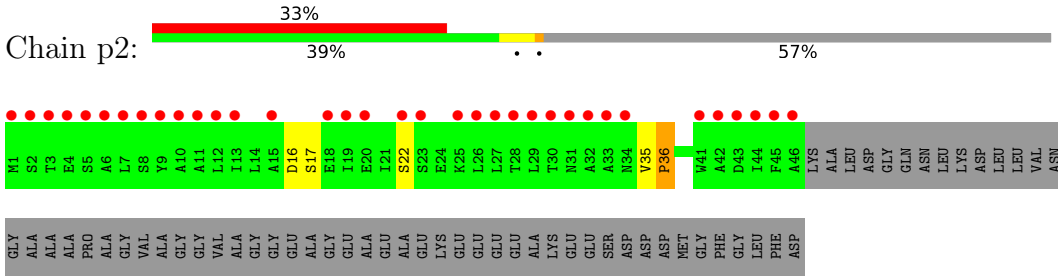
• Molecule 82: 60S acidic ribosomal protein P1-alpha

Chain p1:



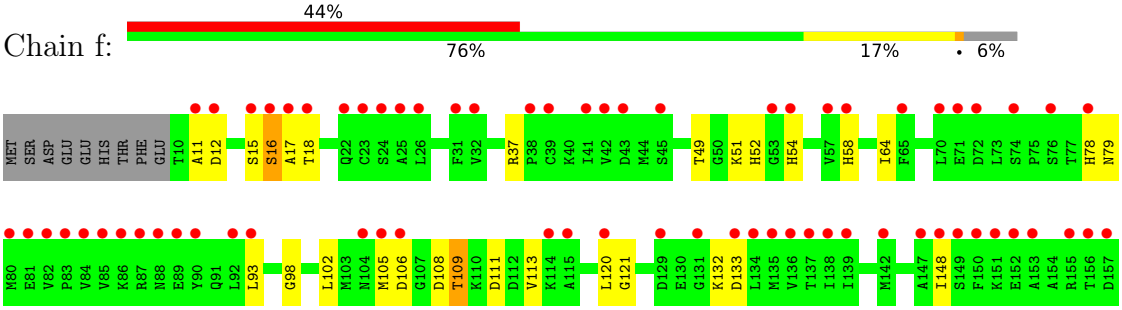
• Molecule 82: 60S acidic ribosomal protein P1-alpha

Chain p2:



• Molecule 83: Eukaryotic translation initiation factor 5A-1

Chain f:



• Molecule 84: DNA (5'-R(*CP*CP*(NA))-3')

Chain B:

• Molecule 84: DNA (5'-R(*CP*CP*(NA))-3')

Chain C:

4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	438.00Å 289.05Å 305.26Å 90.00° 98.95° 90.00°	Depositor
Resolution (Å)	122.88 – 3.45 123.03 – 3.45	Depositor EDS
% Data completeness (in resolution range)	99.9 (122.88-3.45) 99.9 (123.03-3.45)	Depositor EDS
R_{merge}	0.38	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	1.43 (at 3.49Å)	Xtriage
Refinement program	PHENIX	Depositor
R, R_{free}	0.207 , 0.263 0.208 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å^2)	90.1	Xtriage
Anisotropy	0.105	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.30 , 92.5	EDS
L-test for twinning[2]	$< \|L\| > = 0.45$, $< L^2 > = 0.27$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.91	EDS
Total number of atoms	413121	wwPDB-VP
Average B, all atoms (Å^2)	78.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.63% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality (i)

5.1 Standard geometry (i)

Bond lengths and bond angles in the following residue types are not validated in this section: MG, OHX, SPS, 8AN, ZN, 5CT

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	0.44	0/42467	0.98	58/66169 (0.1%)
1	6	0.53	0/42790	1.04	77/66673 (0.1%)
2	S0	0.33	0/1617	0.55	0/2215
2	s0	0.36	0/1623	0.58	0/2222
3	S1	0.30	0/1735	0.53	1/2335 (0.0%)
3	s1	0.34	0/1748	0.56	0/2352
4	S2	0.34	0/1665	0.56	0/2263
4	s2	0.41	0/1665	0.63	0/2263
5	S3	0.33	0/1759	0.53	0/2368
5	s3	0.33	0/1759	0.50	0/2368
6	S4	0.34	0/2109	0.57	0/2839
6	s4	0.39	0/2109	0.62	0/2839
7	S5	0.31	0/1629	0.52	0/2202
7	s5	0.30	0/1629	0.51	0/2202
8	S6	0.34	0/1823	0.52	0/2439
8	s6	0.39	0/1779	0.61	0/2379
9	S7	0.32	0/1506	0.54	0/2028
9	s7	0.34	0/1516	0.57	0/2043
10	S8	0.36	0/1514	0.53	0/2021
10	s8	0.41	0/1514	0.58	0/2021
11	S9	0.33	0/1519	0.49	0/2035
11	s9	0.38	0/1519	0.57	0/2035
12	C0	0.31	0/790	0.54	1/1069 (0.1%)
12	c0	0.30	0/777	0.59	3/1049 (0.3%)
13	C1	0.38	0/1240	0.56	0/1675
13	c1	0.44	0/1194	0.61	0/1610
14	C2	0.29	0/900	0.51	0/1224
14	c2	0.25	0/900	0.48	0/1224
15	C3	0.35	0/1215	0.56	1/1638 (0.1%)
15	c3	0.37	0/1215	0.58	0/1638
16	C4	0.30	0/901	0.56	0/1217
16	c4	0.35	0/960	0.56	0/1290

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	C5	0.34	0/998	0.56	0/1341
17	c5	0.36	0/1060	0.57	0/1426
18	C6	0.32	0/1125	0.57	2/1510 (0.1%)
18	c6	0.34	0/1131	0.54	0/1518
19	C7	0.36	0/935	0.59	0/1254
19	c7	0.32	0/914	0.54	0/1224
20	C8	0.35	0/1211	0.54	1/1628 (0.1%)
20	c8	0.34	0/1211	0.57	1/1628 (0.1%)
21	C9	0.32	0/1130	0.52	0/1517
21	c9	0.33	0/1130	0.51	0/1517
22	D0	0.32	0/865	0.55	0/1169
22	d0	0.35	0/892	0.54	0/1205
23	D1	0.34	0/693	0.53	0/935
23	d1	0.37	0/693	0.61	0/935
24	D2	0.34	0/1038	0.61	1/1395 (0.1%)
24	d2	0.41	0/1038	0.62	0/1395
25	D3	0.39	0/1139	0.59	0/1518
25	d3	0.45	0/1139	0.62	0/1518
26	D4	0.34	0/1087	0.50	0/1449
26	d4	0.39	0/1087	0.62	0/1449
27	D5	0.32	0/571	0.57	0/768
27	d5	0.33	0/566	0.53	0/761
28	D6	0.33	0/782	0.54	0/1047
28	d6	0.38	0/782	0.58	0/1047
29	D7	0.32	0/620	0.52	0/838
29	d7	0.36	0/620	0.57	0/838
30	D8	0.29	0/499	0.51	0/670
30	d8	0.32	0/499	0.57	0/670
31	D9	0.40	0/452	0.57	0/600
31	d9	0.35	0/452	0.52	0/600
32	E0	0.32	0/483	0.49	0/643
32	e0	0.38	0/499	0.62	0/665
33	E1	0.35	0/577	0.61	0/770
33	e1	0.34	0/619	0.61	0/822
34	SR	0.29	0/2489	0.51	0/3389
34	sR	0.28	0/2494	0.49	0/3395
35	SM	0.38	0/1113	0.57	2/1502 (0.1%)
35	sM	0.34	0/683	0.55	1/923 (0.1%)
36	1	0.66	6/75394 (0.0%)	1.15	212/117545 (0.2%)
36	5	0.71	8/75414 (0.0%)	1.18	277/117575 (0.2%)
37	3	0.57	0/2883	1.03	1/4491 (0.0%)
37	7	0.69	0/2883	1.15	7/4491 (0.2%)
38	4	0.60	0/3746	1.07	5/5832 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	8	0.60	0/3746	1.08	7/5832 (0.1%)
39	L2	0.43	0/1948	0.62	0/2617
39	l2	0.45	0/1946	0.65	0/2614
40	L3	0.46	0/3146	0.63	0/4228
40	l3	0.53	0/3146	0.63	0/4228
41	L4	0.49	0/2800	0.67	0/3790
41	l4	0.47	0/2800	0.66	0/3790
42	L5	0.41	0/2425	0.57	0/3271
42	l5	0.51	0/2408	0.64	1/3248 (0.0%)
43	L6	0.45	0/1260	0.61	0/1694
43	l6	0.47	0/1269	0.61	0/1705
44	L7	0.49	0/1821	0.64	1/2451 (0.0%)
44	l7	0.52	0/1828	0.65	1/2461 (0.0%)
45	L8	0.36	0/1836	0.54	0/2481
45	l8	0.38	0/1796	0.57	0/2431
46	L9	0.43	0/1539	0.60	0/2073
46	l9	0.51	0/1539	0.64	0/2073
47	M0	0.45	0/1741	0.58	0/2335
47	m0	0.51	0/1758	0.65	0/2358
48	M1	0.37	0/1374	0.57	0/1842
48	m1	0.45	0/1374	0.60	0/1842
49	M3	0.44	0/1568	0.65	0/2106
49	m3	0.46	0/1573	0.61	0/2113
50	M4	0.44	0/1068	0.59	0/1438
50	m4	0.49	0/1074	0.64	0/1446
51	M5	0.46	0/1757	0.59	0/2354
51	m5	0.44	0/1757	0.58	0/2354
52	M6	0.53	0/1585	0.54	0/2128
52	m6	0.62	0/1585	0.57	0/2128
53	M7	0.48	0/1443	0.62	0/1944
53	m7	0.54	0/1250	0.63	0/1683
54	M8	0.48	0/1465	0.65	0/1965
54	m8	0.47	0/1465	0.67	0/1965
55	M9	0.37	0/1538	0.54	0/2050
55	m9	0.40	0/1538	0.55	0/2050
56	N0	0.46	0/1481	0.61	1/1990 (0.1%)
56	n0	0.54	0/1481	0.65	0/1990
57	N1	0.45	0/1300	0.60	0/1743
57	n1	0.53	0/1300	0.59	0/1743
58	N2	0.35	0/812	0.55	0/1099
58	n2	0.39	0/794	0.58	0/1076
59	N3	0.46	0/1018	0.59	0/1369
59	n3	0.54	0/1018	0.69	1/1369 (0.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
60	N4	0.37	0/712	0.55	0/958
60	n4	0.44	0/1052	0.60	0/1398
61	N5	0.40	0/979	0.59	0/1321
61	n5	0.41	0/974	0.62	0/1314
62	N6	0.43	0/1004	0.63	1/1341 (0.1%)
62	n6	0.42	0/1004	0.60	0/1341
63	N7	0.36	0/1118	0.56	0/1497
63	n7	0.38	0/1118	0.52	0/1497
64	N8	0.47	0/1204	0.68	0/1612
64	n8	0.49	0/1204	0.66	1/1612 (0.1%)
65	N9	0.45	0/473	0.67	0/629
65	n9	0.53	0/473	0.74	0/629
66	O0	0.33	0/750	0.54	0/1008
66	o0	0.38	0/774	0.59	0/1040
67	O1	0.41	0/890	0.57	0/1196
67	o1	0.49	0/897	0.67	0/1205
68	O2	0.51	0/1041	0.62	0/1394
68	o2	0.52	0/1041	0.66	0/1394
69	O3	0.55	0/868	0.63	0/1168
69	o3	0.54	0/868	0.63	0/1168
70	O4	0.39	0/890	0.60	1/1189 (0.1%)
70	o4	0.44	0/890	0.59	0/1189
71	O5	0.43	0/978	0.61	0/1301
71	o5	0.41	0/974	0.59	0/1297
72	O6	0.40	0/778	0.59	0/1034
72	o6	0.42	0/777	0.61	0/1033
73	O7	0.48	0/696	0.70	0/923
73	o7	0.46	0/696	0.65	1/923 (0.1%)
74	O8	0.34	0/618	0.52	0/826
74	o8	0.38	0/614	0.60	0/822
75	O9	0.48	0/443	0.64	0/588
75	o9	0.45	0/443	0.63	0/588
76	Q0	0.48	0/423	0.72	0/562
76	q0	0.55	0/423	0.65	0/562
77	Q1	0.43	0/234	0.55	0/300
77	q1	0.50	0/234	0.65	0/300
78	Q2	0.61	1/860 (0.1%)	0.72	1/1136 (0.1%)
78	q2	0.58	1/860 (0.1%)	0.67	1/1136 (0.1%)
79	Q3	0.46	0/701	0.65	0/934
79	q3	0.50	0/701	0.61	0/934
80	m2	0.34	0/736	0.76	10/1019 (1.0%)
81	p0	0.30	0/1092	0.52	0/1474
82	p1	0.29	0/234	0.49	1/326 (0.3%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
82	p2	0.31	0/229	0.46	1/319 (0.3%)
83	f	0.40	0/1121	0.61	0/1508
84	B	0.71	0/40	1.67	0/60
84	C	0.62	0/43	1.18	0/64
All	All	0.54	16/433264 (0.0%)	0.94	681/635894 (0.1%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
9	s7	0	1
16	C4	0	1
17	c5	0	1
18	c6	0	1
19	C7	0	1
39	L2	0	2
40	l3	0	1
52	M6	0	1
53	m7	0	1
56	n0	0	1
65	N9	0	1
83	f	1	0
All	All	1	12

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

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
78	Q2	17	CYS	CB-SG	9.97	1.99	1.82
78	q2	17	CYS	CB-SG	8.34	1.96	1.82
36	5	1152	G	N9-C4	-6.27	1.32	1.38
36	5	2401	A	N9-C4	6.26	1.41	1.37
36	5	2860	U	N1-C2	5.96	1.44	1.38

The worst 5 of 681 bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	5	1152	G	N3-C4-N9	-11.84	118.90	126.00
36	5	2355	G	N1-C6-O6	11.18	126.61	119.90
1	6	321	C	N1-C2-O2	11.14	125.58	118.90
36	5	1152	G	N3-C4-C5	11.03	134.11	128.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	5	1897	G	N1-C6-O6	10.10	125.96	119.90

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
83	f	51	5CT	C2

5 of 12 planarity outliers are listed below:

Mol	Chain	Res	Type	Group
16	C4	123	SER	Peptide
19	C7	85	VAL	Peptide
39	L2	142	ASP	Peptide
39	L2	19	HIS	Peptide
52	M6	110	PRO	Peptide

5.2 Too-close contacts

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

5.3 Torsion angles

5.3.1 Protein backbone

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
2	S0	204/251 (81%)	157 (77%)	34 (17%)	13 (6%)	1 13
2	s0	204/251 (81%)	148 (72%)	31 (15%)	25 (12%)	0 4
3	S1	212/254 (84%)	154 (73%)	38 (18%)	20 (9%)	0 7
3	s1	214/254 (84%)	169 (79%)	30 (14%)	15 (7%)	1 11
4	S2	215/253 (85%)	169 (79%)	36 (17%)	10 (5%)	2 19
4	s2	215/253 (85%)	172 (80%)	25 (12%)	18 (8%)	1 8

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
5	S3	221/239 (92%)	186 (84%)	24 (11%)	11 (5%)	2 18
5	s3	221/239 (92%)	172 (78%)	36 (16%)	13 (6%)	1 14
6	S4	258/260 (99%)	197 (76%)	44 (17%)	17 (7%)	1 12
6	s4	258/260 (99%)	200 (78%)	42 (16%)	16 (6%)	1 13
7	S5	204/224 (91%)	153 (75%)	35 (17%)	16 (8%)	1 9
7	s5	204/224 (91%)	150 (74%)	41 (20%)	13 (6%)	1 13
8	S6	224/236 (95%)	189 (84%)	23 (10%)	12 (5%)	2 16
8	s6	216/236 (92%)	176 (82%)	32 (15%)	8 (4%)	3 25
9	S7	182/189 (96%)	127 (70%)	39 (21%)	16 (9%)	1 7
9	s7	184/189 (97%)	141 (77%)	29 (16%)	14 (8%)	1 9
10	S8	184/200 (92%)	150 (82%)	25 (14%)	9 (5%)	2 18
10	s8	184/200 (92%)	151 (82%)	27 (15%)	6 (3%)	4 27
11	S9	183/196 (93%)	148 (81%)	27 (15%)	8 (4%)	2 21
11	s9	183/196 (93%)	141 (77%)	33 (18%)	9 (5%)	2 18
12	C0	94/105 (90%)	69 (73%)	16 (17%)	9 (10%)	0 7
12	c0	92/105 (88%)	63 (68%)	14 (15%)	15 (16%)	0 2
13	C1	153/155 (99%)	122 (80%)	21 (14%)	10 (6%)	1 12
13	c1	144/155 (93%)	120 (83%)	19 (13%)	5 (4%)	3 26
14	C2	122/142 (86%)	71 (58%)	33 (27%)	18 (15%)	0 2
14	c2	122/142 (86%)	78 (64%)	30 (25%)	14 (12%)	0 5
15	C3	148/150 (99%)	120 (81%)	17 (12%)	11 (7%)	1 10
15	c3	148/150 (99%)	116 (78%)	20 (14%)	12 (8%)	1 9
16	C4	125/136 (92%)	89 (71%)	24 (19%)	12 (10%)	0 7
16	c4	126/136 (93%)	96 (76%)	16 (13%)	14 (11%)	0 5
17	C5	122/141 (86%)	99 (81%)	13 (11%)	10 (8%)	1 8
17	c5	133/141 (94%)	86 (65%)	38 (29%)	9 (7%)	1 12
18	C6	139/142 (98%)	118 (85%)	13 (9%)	8 (6%)	1 15
18	c6	140/142 (99%)	118 (84%)	13 (9%)	9 (6%)	1 13
19	C7	116/136 (85%)	90 (78%)	18 (16%)	8 (7%)	1 11
19	c7	113/136 (83%)	86 (76%)	18 (16%)	9 (8%)	1 9
20	C8	143/145 (99%)	111 (78%)	25 (18%)	7 (5%)	2 18

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
20	c8	143/145 (99%)	117 (82%)	19 (13%)	7 (5%)	2 18
21	C9	141/143 (99%)	116 (82%)	18 (13%)	7 (5%)	2 18
21	c9	141/143 (99%)	116 (82%)	21 (15%)	4 (3%)	5 31
22	D0	105/120 (88%)	89 (85%)	12 (11%)	4 (4%)	3 24
22	d0	108/120 (90%)	90 (83%)	13 (12%)	5 (5%)	2 20
23	D1	85/87 (98%)	64 (75%)	8 (9%)	13 (15%)	0 2
23	d1	85/87 (98%)	61 (72%)	17 (20%)	7 (8%)	1 8
24	D2	127/129 (98%)	106 (84%)	16 (13%)	5 (4%)	3 24
24	d2	127/129 (98%)	107 (84%)	17 (13%)	3 (2%)	6 34
25	D3	142/144 (99%)	104 (73%)	22 (16%)	16 (11%)	0 5
25	d3	142/144 (99%)	117 (82%)	24 (17%)	1 (1%)	22 60
26	D4	132/134 (98%)	106 (80%)	16 (12%)	10 (8%)	1 9
26	d4	132/134 (98%)	101 (76%)	20 (15%)	11 (8%)	1 8
27	D5	68/107 (64%)	50 (74%)	12 (18%)	6 (9%)	1 7
27	d5	67/107 (63%)	49 (73%)	16 (24%)	2 (3%)	4 29
28	D6	95/97 (98%)	57 (60%)	24 (25%)	14 (15%)	0 2
28	d6	95/97 (98%)	69 (73%)	14 (15%)	12 (13%)	0 4
29	D7	79/81 (98%)	69 (87%)	7 (9%)	3 (4%)	3 24
29	d7	79/81 (98%)	57 (72%)	16 (20%)	6 (8%)	1 9
30	D8	61/66 (92%)	47 (77%)	10 (16%)	4 (7%)	1 12
30	d8	61/66 (92%)	41 (67%)	11 (18%)	9 (15%)	0 2
31	D9	51/55 (93%)	37 (72%)	11 (22%)	3 (6%)	1 14
31	d9	51/55 (93%)	40 (78%)	8 (16%)	3 (6%)	1 14
32	E0	58/63 (92%)	41 (71%)	15 (26%)	2 (3%)	3 27
32	e0	60/63 (95%)	38 (63%)	15 (25%)	7 (12%)	0 4
33	E1	69/76 (91%)	38 (55%)	19 (28%)	12 (17%)	0 2
33	e1	74/76 (97%)	39 (53%)	12 (16%)	23 (31%)	0 0
34	SR	316/318 (99%)	260 (82%)	43 (14%)	13 (4%)	3 23
34	sR	316/318 (99%)	264 (84%)	38 (12%)	14 (4%)	2 21
35	SM	155/273 (57%)	107 (69%)	32 (21%)	16 (10%)	0 6
35	sM	98/273 (36%)	66 (67%)	23 (24%)	9 (9%)	1 7

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
39	L2	250/253 (99%)	217 (87%)	23 (9%)	10 (4%)	3 23
39	l2	250/253 (99%)	204 (82%)	33 (13%)	13 (5%)	2 17
40	L3	384/386 (100%)	315 (82%)	46 (12%)	23 (6%)	1 14
40	l3	384/386 (100%)	337 (88%)	35 (9%)	12 (3%)	4 29
41	L4	359/361 (99%)	285 (79%)	52 (14%)	22 (6%)	1 13
41	l4	359/361 (99%)	288 (80%)	53 (15%)	18 (5%)	2 18
42	L5	294/296 (99%)	229 (78%)	42 (14%)	23 (8%)	1 9
42	l5	292/296 (99%)	250 (86%)	35 (12%)	7 (2%)	6 34
43	L6	152/175 (87%)	132 (87%)	17 (11%)	3 (2%)	7 37
43	l6	153/175 (87%)	123 (80%)	25 (16%)	5 (3%)	4 27
44	L7	220/243 (90%)	173 (79%)	39 (18%)	8 (4%)	3 25
44	l7	221/243 (91%)	193 (87%)	23 (10%)	5 (2%)	6 34
45	L8	231/255 (91%)	184 (80%)	38 (16%)	9 (4%)	3 24
45	l8	229/255 (90%)	167 (73%)	48 (21%)	14 (6%)	1 13
46	L9	189/191 (99%)	159 (84%)	19 (10%)	11 (6%)	1 15
46	l9	189/191 (99%)	163 (86%)	21 (11%)	5 (3%)	5 32
47	M0	207/220 (94%)	167 (81%)	31 (15%)	9 (4%)	2 21
47	m0	209/220 (95%)	165 (79%)	33 (16%)	11 (5%)	2 16
48	M1	167/173 (96%)	134 (80%)	19 (11%)	14 (8%)	1 8
48	m1	167/173 (96%)	137 (82%)	19 (11%)	11 (7%)	1 12
49	M3	191/198 (96%)	153 (80%)	27 (14%)	11 (6%)	1 15
49	m3	192/198 (97%)	153 (80%)	24 (12%)	15 (8%)	1 9
50	M4	134/137 (98%)	114 (85%)	15 (11%)	5 (4%)	3 25
50	m4	135/137 (98%)	115 (85%)	16 (12%)	4 (3%)	4 29
51	M5	201/203 (99%)	176 (88%)	19 (10%)	6 (3%)	4 29
51	m5	201/203 (99%)	174 (87%)	23 (11%)	4 (2%)	7 37
52	M6	195/198 (98%)	173 (89%)	16 (8%)	6 (3%)	4 29
52	m6	195/198 (98%)	182 (93%)	9 (5%)	4 (2%)	7 36
53	M7	181/183 (99%)	150 (83%)	25 (14%)	6 (3%)	4 27
53	m7	153/183 (84%)	127 (83%)	25 (16%)	1 (1%)	22 60
54	M8	183/185 (99%)	151 (82%)	24 (13%)	8 (4%)	2 21

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
54	m8	183/185 (99%)	154 (84%)	20 (11%)	9 (5%)	2 18
55	M9	186/188 (99%)	160 (86%)	23 (12%)	3 (2%)	9 42
55	m9	186/188 (99%)	166 (89%)	13 (7%)	7 (4%)	3 24
56	N0	170/172 (99%)	155 (91%)	12 (7%)	3 (2%)	8 39
56	n0	170/172 (99%)	152 (89%)	15 (9%)	3 (2%)	8 39
57	N1	157/159 (99%)	137 (87%)	15 (10%)	5 (3%)	4 28
57	n1	157/159 (99%)	131 (83%)	24 (15%)	2 (1%)	12 46
58	N2	98/120 (82%)	72 (74%)	23 (24%)	3 (3%)	4 29
58	n2	96/120 (80%)	80 (83%)	11 (12%)	5 (5%)	2 17
59	N3	134/136 (98%)	117 (87%)	15 (11%)	2 (2%)	10 43
59	n3	134/136 (98%)	122 (91%)	7 (5%)	5 (4%)	3 25
60	N4	96/155 (62%)	68 (71%)	18 (19%)	10 (10%)	0 6
60	n4	133/155 (86%)	102 (77%)	22 (16%)	9 (7%)	1 12
61	N5	119/141 (84%)	99 (83%)	14 (12%)	6 (5%)	2 18
61	n5	118/141 (84%)	94 (80%)	19 (16%)	5 (4%)	3 22
62	N6	124/126 (98%)	107 (86%)	13 (10%)	4 (3%)	4 28
62	n6	124/126 (98%)	102 (82%)	21 (17%)	1 (1%)	19 57
63	N7	133/135 (98%)	114 (86%)	10 (8%)	9 (7%)	1 12
63	n7	133/135 (98%)	112 (84%)	12 (9%)	9 (7%)	1 12
64	N8	146/148 (99%)	118 (81%)	22 (15%)	6 (4%)	3 23
64	n8	146/148 (99%)	111 (76%)	24 (16%)	11 (8%)	1 10
65	N9	56/58 (97%)	41 (73%)	12 (21%)	3 (5%)	2 16
65	n9	56/58 (97%)	39 (70%)	12 (21%)	5 (9%)	1 7
66	O0	95/104 (91%)	80 (84%)	11 (12%)	4 (4%)	3 22
66	o0	98/104 (94%)	84 (86%)	11 (11%)	3 (3%)	4 29
67	O1	107/112 (96%)	89 (83%)	8 (8%)	10 (9%)	0 7
67	o1	107/112 (96%)	83 (78%)	18 (17%)	6 (6%)	2 15
68	O2	125/129 (97%)	104 (83%)	18 (14%)	3 (2%)	6 34
68	o2	125/129 (97%)	103 (82%)	16 (13%)	6 (5%)	2 19
69	O3	104/106 (98%)	96 (92%)	7 (7%)	1 (1%)	15 52
69	o3	104/106 (98%)	92 (88%)	9 (9%)	3 (3%)	4 30

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles
70	O4	110/121 (91%)	88 (80%)	17 (16%)	5 (4%)	2 20
70	o4	110/121 (91%)	98 (89%)	11 (10%)	1 (1%)	17 54
71	O5	117/119 (98%)	93 (80%)	22 (19%)	2 (2%)	9 40
71	o5	117/119 (98%)	98 (84%)	14 (12%)	5 (4%)	2 21
72	O6	97/99 (98%)	78 (80%)	13 (13%)	6 (6%)	1 13
72	o6	97/99 (98%)	78 (80%)	14 (14%)	5 (5%)	2 17
73	O7	85/87 (98%)	64 (75%)	16 (19%)	5 (6%)	1 14
73	o7	85/87 (98%)	72 (85%)	11 (13%)	2 (2%)	6 34
74	O8	75/77 (97%)	62 (83%)	9 (12%)	4 (5%)	2 16
74	o8	75/77 (97%)	60 (80%)	12 (16%)	3 (4%)	3 23
75	O9	48/50 (96%)	40 (83%)	7 (15%)	1 (2%)	7 36
75	o9	48/50 (96%)	44 (92%)	4 (8%)	0	100 100
76	Q0	50/52 (96%)	42 (84%)	7 (14%)	1 (2%)	7 37
76	q0	50/52 (96%)	46 (92%)	2 (4%)	2 (4%)	3 23
77	Q1	23/25 (92%)	21 (91%)	2 (9%)	0	100 100
77	q1	23/25 (92%)	21 (91%)	2 (9%)	0	100 100
78	Q2	103/105 (98%)	80 (78%)	17 (16%)	6 (6%)	1 15
78	q2	103/105 (98%)	95 (92%)	7 (7%)	1 (1%)	15 52
79	Q3	89/91 (98%)	71 (80%)	10 (11%)	8 (9%)	1 7
79	q3	89/91 (98%)	74 (83%)	12 (14%)	3 (3%)	3 27
80	m2	144/165 (87%)	67 (46%)	48 (33%)	29 (20%)	0 1
81	p0	139/311 (45%)	110 (79%)	20 (14%)	9 (6%)	1 12
82	p1	45/106 (42%)	26 (58%)	17 (38%)	2 (4%)	2 21
82	p2	44/106 (42%)	33 (75%)	6 (14%)	5 (11%)	0 5
83	f	145/157 (92%)	97 (67%)	34 (23%)	14 (10%)	0 6
All	All	22711/24683 (92%)	18197 (80%)	3231 (14%)	1283 (6%)	2 15

5 of 1283 Ramachandran outliers are listed below:

Mol	Chain	Res	Type
2	S0	4	PRO
2	S0	158	VAL
2	S0	169	SER

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	S0	191	ARG
3	S1	82	ARG

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	164/209 (78%)	140 (85%)	24 (15%)	3 16
2	s0	165/209 (79%)	137 (83%)	28 (17%)	2 10
3	S1	191/223 (86%)	157 (82%)	34 (18%)	2 8
3	s1	192/223 (86%)	160 (83%)	32 (17%)	2 11
4	S2	176/204 (86%)	147 (84%)	29 (16%)	2 12
4	s2	176/204 (86%)	134 (76%)	42 (24%)	0 3
5	S3	182/194 (94%)	146 (80%)	36 (20%)	1 5
5	s3	182/194 (94%)	158 (87%)	24 (13%)	4 19
6	S4	221/221 (100%)	194 (88%)	27 (12%)	5 22
6	s4	221/221 (100%)	192 (87%)	29 (13%)	4 20
7	S5	173/190 (91%)	146 (84%)	27 (16%)	2 14
7	s5	173/190 (91%)	146 (84%)	27 (16%)	2 14
8	S6	188/201 (94%)	162 (86%)	26 (14%)	3 18
8	s6	187/201 (93%)	162 (87%)	25 (13%)	4 19
9	S7	165/169 (98%)	144 (87%)	21 (13%)	4 20
9	s7	165/169 (98%)	138 (84%)	27 (16%)	2 12
10	S8	150/161 (93%)	128 (85%)	22 (15%)	3 16
10	s8	150/161 (93%)	128 (85%)	22 (15%)	3 16
11	S9	158/165 (96%)	128 (81%)	30 (19%)	1 7
11	s9	158/165 (96%)	128 (81%)	30 (19%)	1 7
12	C0	77/98 (79%)	69 (90%)	8 (10%)	7 29
12	c0	73/98 (74%)	64 (88%)	9 (12%)	4 22

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
13	C1	129/136 (95%)	110 (85%)	19 (15%)	3 16
13	c1	129/136 (95%)	111 (86%)	18 (14%)	3 17
14	C2	88/118 (75%)	73 (83%)	15 (17%)	2 10
14	c2	88/118 (75%)	74 (84%)	14 (16%)	2 13
15	C3	127/127 (100%)	101 (80%)	26 (20%)	1 5
15	c3	127/127 (100%)	111 (87%)	16 (13%)	4 21
16	C4	81/104 (78%)	65 (80%)	16 (20%)	1 5
16	c4	97/104 (93%)	78 (80%)	19 (20%)	1 6
17	C5	101/117 (86%)	89 (88%)	12 (12%)	5 23
17	c5	103/117 (88%)	87 (84%)	16 (16%)	2 14
18	C6	117/118 (99%)	98 (84%)	19 (16%)	2 12
18	c6	118/118 (100%)	101 (86%)	17 (14%)	3 16
19	C7	94/124 (76%)	77 (82%)	17 (18%)	1 8
19	c7	92/124 (74%)	79 (86%)	13 (14%)	3 17
20	C8	128/128 (100%)	106 (83%)	22 (17%)	2 10
20	c8	128/128 (100%)	106 (83%)	22 (17%)	2 10
21	C9	115/115 (100%)	95 (83%)	20 (17%)	2 9
21	c9	115/115 (100%)	104 (90%)	11 (10%)	8 32
22	D0	100/113 (88%)	83 (83%)	17 (17%)	2 10
22	d0	103/113 (91%)	84 (82%)	19 (18%)	1 7
23	D1	74/74 (100%)	59 (80%)	15 (20%)	1 5
23	d1	74/74 (100%)	61 (82%)	13 (18%)	2 9
24	D2	110/110 (100%)	89 (81%)	21 (19%)	1 6
24	d2	110/110 (100%)	92 (84%)	18 (16%)	2 12
25	D3	119/119 (100%)	100 (84%)	19 (16%)	2 13
25	d3	119/119 (100%)	98 (82%)	21 (18%)	2 9
26	D4	112/112 (100%)	98 (88%)	14 (12%)	4 21
26	d4	112/112 (100%)	92 (82%)	20 (18%)	2 8
27	D5	61/88 (69%)	50 (82%)	11 (18%)	1 8
27	d5	61/88 (69%)	53 (87%)	8 (13%)	4 20
28	D6	83/83 (100%)	66 (80%)	17 (20%)	1 5

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
28	d6	83/83 (100%)	74 (89%)	9 (11%)	6 27
29	D7	70/70 (100%)	66 (94%)	4 (6%)	20 52
29	d7	70/70 (100%)	57 (81%)	13 (19%)	1 7
30	D8	56/59 (95%)	45 (80%)	11 (20%)	1 6
30	d8	56/59 (95%)	45 (80%)	11 (20%)	1 6
31	D9	47/48 (98%)	39 (83%)	8 (17%)	2 10
31	d9	47/48 (98%)	37 (79%)	10 (21%)	1 4
32	E0	51/54 (94%)	43 (84%)	8 (16%)	2 14
32	e0	53/54 (98%)	36 (68%)	17 (32%)	0 1
33	E1	62/66 (94%)	53 (86%)	9 (14%)	3 16
33	e1	66/66 (100%)	54 (82%)	12 (18%)	1 8
34	SR	259/261 (99%)	236 (91%)	23 (9%)	9 36
34	sR	260/261 (100%)	241 (93%)	19 (7%)	14 45
35	SM	97/228 (42%)	78 (80%)	19 (20%)	1 6
35	sM	54/228 (24%)	44 (82%)	10 (18%)	1 7
39	L2	193/195 (99%)	157 (81%)	36 (19%)	1 7
39	l2	192/195 (98%)	157 (82%)	35 (18%)	1 8
40	L3	319/322 (99%)	256 (80%)	63 (20%)	1 6
40	l3	320/322 (99%)	263 (82%)	57 (18%)	2 8
41	L4	288/288 (100%)	242 (84%)	46 (16%)	2 13
41	l4	288/288 (100%)	242 (84%)	46 (16%)	2 13
42	L5	244/244 (100%)	206 (84%)	38 (16%)	2 14
42	l5	243/244 (100%)	193 (79%)	50 (21%)	1 5
43	L6	134/152 (88%)	116 (87%)	18 (13%)	4 19
43	l6	135/152 (89%)	112 (83%)	23 (17%)	2 10
44	L7	186/204 (91%)	162 (87%)	24 (13%)	4 20
44	l7	187/204 (92%)	162 (87%)	25 (13%)	4 19
45	L8	187/207 (90%)	160 (86%)	27 (14%)	3 16
45	l8	177/207 (86%)	153 (86%)	24 (14%)	3 18
46	L9	171/171 (100%)	135 (79%)	36 (21%)	1 4
46	l9	171/171 (100%)	137 (80%)	34 (20%)	1 5

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
47	M0	177/186 (95%)	146 (82%)	31 (18%)	2 9
47	m0	179/186 (96%)	149 (83%)	30 (17%)	2 11
48	M1	147/150 (98%)	122 (83%)	25 (17%)	2 10
48	m1	147/150 (98%)	120 (82%)	27 (18%)	1 7
49	M3	154/158 (98%)	136 (88%)	18 (12%)	5 24
49	m3	154/158 (98%)	134 (87%)	20 (13%)	4 20
50	M4	107/108 (99%)	88 (82%)	19 (18%)	2 8
50	m4	108/108 (100%)	88 (82%)	20 (18%)	1 7
51	M5	175/175 (100%)	145 (83%)	30 (17%)	2 10
51	m5	175/175 (100%)	150 (86%)	25 (14%)	3 17
52	M6	160/161 (99%)	141 (88%)	19 (12%)	5 23
52	m6	160/161 (99%)	145 (91%)	15 (9%)	8 33
53	M7	140/145 (97%)	108 (77%)	32 (23%)	1 3
53	m7	125/145 (86%)	103 (82%)	22 (18%)	2 9
54	M8	150/150 (100%)	130 (87%)	20 (13%)	4 19
54	m8	150/150 (100%)	130 (87%)	20 (13%)	4 19
55	M9	153/153 (100%)	135 (88%)	18 (12%)	5 23
55	m9	153/153 (100%)	131 (86%)	22 (14%)	3 16
56	N0	156/156 (100%)	128 (82%)	28 (18%)	2 8
56	n0	156/156 (100%)	122 (78%)	34 (22%)	1 4
57	N1	136/136 (100%)	109 (80%)	27 (20%)	1 5
57	n1	136/136 (100%)	107 (79%)	29 (21%)	1 4
58	N2	87/106 (82%)	74 (85%)	13 (15%)	3 16
58	n2	85/106 (80%)	71 (84%)	14 (16%)	2 12
59	N3	104/104 (100%)	90 (86%)	14 (14%)	4 19
59	n3	104/104 (100%)	92 (88%)	12 (12%)	5 24
60	N4	57/129 (44%)	54 (95%)	3 (5%)	22 54
60	n4	100/129 (78%)	89 (89%)	11 (11%)	6 27
61	N5	104/117 (89%)	82 (79%)	22 (21%)	1 4
61	n5	104/117 (89%)	88 (85%)	16 (15%)	2 14
62	N6	109/109 (100%)	88 (81%)	21 (19%)	1 6

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
62	n6	109/109 (100%)	94 (86%)	15 (14%)	3 18
63	N7	115/115 (100%)	102 (89%)	13 (11%)	6 25
63	n7	115/115 (100%)	95 (83%)	20 (17%)	2 9
64	N8	118/118 (100%)	97 (82%)	21 (18%)	2 8
64	n8	118/118 (100%)	97 (82%)	21 (18%)	2 8
65	N9	46/46 (100%)	39 (85%)	7 (15%)	3 15
65	n9	46/46 (100%)	40 (87%)	6 (13%)	4 20
66	O0	81/87 (93%)	65 (80%)	16 (20%)	1 5
66	o0	84/87 (97%)	74 (88%)	10 (12%)	5 23
67	O1	92/96 (96%)	79 (86%)	13 (14%)	3 17
67	o1	94/96 (98%)	79 (84%)	15 (16%)	2 13
68	O2	109/110 (99%)	88 (81%)	21 (19%)	1 6
68	o2	109/110 (99%)	85 (78%)	24 (22%)	1 4
69	O3	90/90 (100%)	80 (89%)	10 (11%)	6 26
69	o3	90/90 (100%)	79 (88%)	11 (12%)	5 22
70	O4	95/103 (92%)	82 (86%)	13 (14%)	3 18
70	o4	95/103 (92%)	78 (82%)	17 (18%)	2 8
71	O5	104/104 (100%)	85 (82%)	19 (18%)	1 7
71	o5	103/104 (99%)	84 (82%)	19 (18%)	1 7
72	O6	81/81 (100%)	62 (76%)	19 (24%)	1 3
72	o6	80/81 (99%)	60 (75%)	20 (25%)	0 3
73	O7	70/70 (100%)	57 (81%)	13 (19%)	1 7
73	o7	70/70 (100%)	53 (76%)	17 (24%)	0 3
74	O8	68/68 (100%)	55 (81%)	13 (19%)	1 6
74	o8	67/68 (98%)	57 (85%)	10 (15%)	3 16
75	O9	45/45 (100%)	36 (80%)	9 (20%)	1 5
75	o9	45/45 (100%)	40 (89%)	5 (11%)	6 26
76	Q0	47/47 (100%)	38 (81%)	9 (19%)	1 6
76	q0	47/47 (100%)	36 (77%)	11 (23%)	1 3
77	Q1	23/23 (100%)	17 (74%)	6 (26%)	0 2
77	q1	23/23 (100%)	17 (74%)	6 (26%)	0 2

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
78	Q2	90/90 (100%)	73 (81%)	17 (19%)	1 6
78	q2	90/90 (100%)	66 (73%)	24 (27%)	0 2
79	Q3	71/71 (100%)	63 (89%)	8 (11%)	6 25
79	q3	71/71 (100%)	57 (80%)	14 (20%)	1 6
81	p0	105/253 (42%)	86 (82%)	19 (18%)	1 8
83	f	123/132 (93%)	107 (87%)	16 (13%)	4 20
All	All	18849/20379 (92%)	15796 (84%)	3053 (16%)	2 12

5 of 3053 residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
16	c4	103	ARG
42	l5	81	HIS
19	c7	110	VAL
16	c4	79	VAL
31	d9	36	LEU

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. 5 of 61 such sidechains are listed below:

Mol	Chain	Res	Type
57	N1	146	ASN
56	n0	157	GLN
9	s7	71	HIS
54	m8	5	HIS
70	o4	18	ASN

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	2	1776/1800 (98%)	463 (26%)	42 (2%)
1	6	1791/1800 (99%)	450 (25%)	35 (1%)
36	1	3145/3396 (92%)	683 (21%)	65 (2%)
36	5	3145/3396 (92%)	661 (21%)	65 (2%)
37	3	120/121 (99%)	20 (16%)	1 (0%)
37	7	120/121 (99%)	15 (12%)	1 (0%)
38	4	157/158 (99%)	33 (21%)	3 (1%)
38	8	157/158 (99%)	32 (20%)	1 (0%)
84	B	1/3 (33%)	1 (100%)	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
84	C	1/3 (33%)	0	0
All	All	10413/10956 (95%)	2358 (22%)	213 (2%)

5 of 2358 RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	2	2	A
1	2	4	C
1	2	23	G
1	2	25	C
1	2	26	A

5 of 213 RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	6	158	U
1	6	1657	U
36	5	3078	U
1	6	272	U
1	6	1031	U

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

3 non-standard protein/DNA/RNA residues are modelled in this entry.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
83	5CT	f	51	83	13,14,15	2.47	3 (23%)	9,15,17	2.36	4 (44%)
84	8AN	C	76	89,85,84	19,24,25	1.07	1 (5%)	13,35,38	1.48	3 (23%)
84	8AN	B	76	89,85,84	19,24,25	1.00	1 (5%)	13,35,38	1.52	2 (15%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns.

'-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
83	5CT	f	51	83	1/1/2/4	6/13/14/16	-
84	8AN	C	76	89,85,84	-	3/3/25/26	0/3/3/3
84	8AN	B	76	89,85,84	-	2/3/25/26	0/3/3/3

All (5) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
83	f	51	5CT	O1-C2	-6.86	1.22	1.43
83	f	51	5CT	CB-CA	3.74	1.58	1.53
83	f	51	5CT	C1-NZ	-3.36	1.41	1.47
84	C	76	8AN	C5-C4	2.44	1.47	1.40
84	B	76	8AN	C5-C4	2.25	1.46	1.40

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
83	f	51	5CT	C3-C2-C1	5.22	124.06	112.16
83	f	51	5CT	O1-C2-C1	3.20	120.25	109.32
84	B	76	8AN	C4-C5-N7	-3.10	106.17	109.40
84	C	76	8AN	N3-C2-N1	-3.03	123.94	128.68
84	B	76	8AN	N3-C2-N1	-2.94	124.09	128.68

All (1) chirality outliers are listed below:

Mol	Chain	Res	Type	Atom
83	f	51	5CT	C2

5 of 11 torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
83	f	51	5CT	CD-CE-NZ-C1
83	f	51	5CT	O1-C2-C3-C4
83	f	51	5CT	C2-C3-C4-N1
83	f	51	5CT	CG-CD-CE-NZ
83	f	51	5CT	NZ-C1-C2-O1

There are no ring outliers.

No monomer is involved in short contacts.

5.5 Carbohydrates (i)

There are no monosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2284 ligands modelled in this entry, 1109 are monoatomic - leaving 1175 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	$\#\|Z\| > 2$
89	PRO	5	4173	89	5,7,8	0.41	0	7,8,10	1.30	1 (14%)
86	OHX	1	3965	-	0,6,6	-	-	-		
86	OHX	2	2095	-	0,6,6	-	-	-		
86	OHX	5	3836	-	0,6,6	-	-	-		
86	OHX	1	3834	-	0,6,6	-	-	-		
86	OHX	1	3992	-	0,6,6	-	-	-		
86	OHX	3	217	-	0,6,6	-	-	-		
86	OHX	1	3995	-	0,6,6	-	-	-		
86	OHX	5	3833	-	0,6,6	-	-	-		
86	OHX	5	3929	-	0,6,6	-	-	-		
86	OHX	5	4031	-	0,6,6	-	-	-		
86	OHX	8	225	-	0,6,6	-	-	-		
86	OHX	1	4060	-	0,6,6	-	-	-		
86	OHX	2	2043	-	0,6,6	-	-	-		
86	OHX	2	2139	-	0,6,6	-	-	-		
86	OHX	5	4127	-	0,6,6	-	-	-		
86	OHX	1	3892	-	0,6,6	-	-	-		
86	OHX	5	4132	-	0,6,6	-	-	-		
86	OHX	5	3912	-	0,6,6	-	-	-		
86	OHX	D9	102	-	0,6,6	-	-	-		
86	OHX	2	2022	-	0,6,6	-	-	-		
86	OHX	1	3947	-	0,6,6	-	-	-		
86	OHX	1	3982	-	0,6,6	-	-	-		
86	OHX	5	4107	-	0,6,6	-	-	-		
86	OHX	2	2131	-	0,6,6	-	-	-		
86	OHX	1	3987	-	0,6,6	-	-	-		
86	OHX	5	4133	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	2	2057	-	0,6,6	-	-	-		
86	OHX	1	3763	-	0,6,6	-	-	-		
89	PRO	B	101	89,84	5,7,8	0.51	0	7,8,10	1.30	1 (14%)
86	OHX	1	3857	-	0,6,6	-	-	-		
86	OHX	1	4085	-	0,6,6	-	-	-		
86	OHX	6	2045	-	0,6,6	-	-	-		
86	OHX	6	2076	-	0,6,6	-	-	-		
86	OHX	5	3842	-	0,6,6	-	-	-		
86	OHX	5	3996	-	0,6,6	-	-	-		
86	OHX	6	2072	-	0,6,6	-	-	-		
86	OHX	5	3878	-	0,6,6	-	-	-		
86	OHX	5	3939	-	0,6,6	-	-	-		
86	OHX	5	3924	-	0,6,6	-	-	-		
86	OHX	5	4035	-	0,6,6	-	-	-		
86	OHX	5	3906	-	0,6,6	-	-	-		
86	OHX	1	4011	-	0,6,6	-	-	-		
86	OHX	M7	205	-	0,6,6	-	-	-		
86	OHX	1	4013	-	0,6,6	-	-	-		
86	OHX	1	3826	-	0,6,6	-	-	-		
86	OHX	5	3993	-	0,6,6	-	-	-		
86	OHX	5	4026	-	0,6,6	-	-	-		
86	OHX	5	4169	-	0,6,6	-	-	-		
86	OHX	1	3919	-	0,6,6	-	-	-		
86	OHX	6	2054	-	0,6,6	-	-	-		
86	OHX	5	4055	-	0,6,6	-	-	-		
86	OHX	8	211	-	0,6,6	-	-	-		
86	OHX	8	215	-	0,6,6	-	-	-		
86	OHX	2	2002	-	0,6,6	-	-	-		
86	OHX	5	3848	-	0,6,6	-	-	-		
86	OHX	5	4070	-	0,6,6	-	-	-		
86	OHX	7	217	-	0,6,6	-	-	-		
86	OHX	1	3762	-	0,6,6	-	-	-		
86	OHX	2	2127	-	0,6,6	-	-	-		
86	OHX	1	3820	-	0,6,6	-	-	-		
86	OHX	2	2016	-	0,6,6	-	-	-		
86	OHX	5	3898	-	0,6,6	-	-	-		
86	OHX	6	2037	-	0,6,6	-	-	-		
86	OHX	5	3956	-	0,6,6	-	-	-		
86	OHX	1	3906	-	0,6,6	-	-	-		
86	OHX	5	4052	-	0,6,6	-	-	-		
86	OHX	5	4056	-	0,6,6	-	-	-		
86	OHX	1	4050	-	0,6,6	-	-	-		
86	OHX	6	2036	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	4170	-	0,6,6	-	-	-		
86	OHX	1	3946	-	0,6,6	-	-	-		
86	OHX	1	3948	-	0,6,6	-	-	-		
86	OHX	4	221	-	0,6,6	-	-	-		
86	OHX	2	2086	-	0,6,6	-	-	-		
86	OHX	1	4006	-	0,6,6	-	-	-		
86	OHX	5	4017	-	0,6,6	-	-	-		
86	OHX	6	2170	-	0,6,6	-	-	-		
86	OHX	7	219	-	0,6,6	-	-	-		
86	OHX	5	4075	-	0,6,6	-	-	-		
86	OHX	5	4111	-	0,6,6	-	-	-		
86	OHX	s1	301	-	0,6,6	-	-	-		
86	OHX	5	4002	-	0,6,6	-	-	-		
86	OHX	5	3998	-	0,6,6	-	-	-		
86	OHX	2	2042	-	0,6,6	-	-	-		
86	OHX	2	2136	-	0,6,6	-	-	-		
86	OHX	5	3864	-	0,6,6	-	-	-		
86	OHX	1	3913	-	0,6,6	-	-	-		
86	OHX	5	3959	-	0,6,6	-	-	-		
86	OHX	5	4013	-	0,6,6	-	-	-		
86	OHX	5	4045	-	0,6,6	-	-	-		
86	OHX	1	3788	-	0,6,6	-	-	-		
86	OHX	1	3882	-	0,6,6	-	-	-		
86	OHX	1	4075	-	0,6,6	-	-	-		
86	OHX	2	2040	-	0,6,6	-	-	-		
86	OHX	1	4067	-	0,6,6	-	-	-		
86	OHX	1	3876	-	0,6,6	-	-	-		
86	OHX	5	3936	-	0,6,6	-	-	-		
86	OHX	o7	503	-	0,6,6	-	-	-		
86	OHX	5	4108	-	0,6,6	-	-	-		
86	OHX	5	3962	-	0,6,6	-	-	-		
86	OHX	5	4051	-	0,6,6	-	-	-		
86	OHX	5	4016	-	0,6,6	-	-	-		
86	OHX	2	2038	-	0,6,6	-	-	-		
86	OHX	1	4095	-	0,6,6	-	-	-		
86	OHX	n9	101	-	0,6,6	-	-	-		
86	OHX	5	3855	-	0,6,6	-	-	-		
86	OHX	5	3927	-	0,6,6	-	-	-		
86	OHX	5	3989	-	0,6,6	-	-	-		
86	OHX	2	2072	-	0,6,6	-	-	-		
86	OHX	1	4032	-	0,6,6	-	-	-		
86	OHX	6	2058	-	0,6,6	-	-	-		
86	OHX	6	2031	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	4059	-	0,6,6	-	-	-		
86	OHX	6	2128	-	0,6,6	-	-	-		
86	OHX	5	4147	-	0,6,6	-	-	-		
86	OHX	1	3815	-	0,6,6	-	-	-		
86	OHX	5	4050	-	0,6,6	-	-	-		
86	OHX	2	2011	-	0,6,6	-	-	-		
86	OHX	1	4057	-	0,6,6	-	-	-		
86	OHX	1	3962	-	0,6,6	-	-	-		
86	OHX	6	2100	-	0,6,6	-	-	-		
86	OHX	5	4087	-	0,6,6	-	-	-		
86	OHX	1	3791	-	0,6,6	-	-	-		
86	OHX	5	4018	-	0,6,6	-	-	-		
86	OHX	6	2152	-	0,6,6	-	-	-		
86	OHX	2	2082	-	0,6,6	-	-	-		
86	OHX	4	226	-	0,6,6	-	-	-		
86	OHX	5	3821	-	0,6,6	-	-	-		
86	OHX	1	3996	-	0,6,6	-	-	-		
86	OHX	1	3766	-	0,6,6	-	-	-		
86	OHX	2	2110	-	0,6,6	-	-	-		
86	OHX	6	2077	-	0,6,6	-	-	-		
86	OHX	1	3953	-	0,6,6	-	-	-		
86	OHX	1	3885	-	0,6,6	-	-	-		
86	OHX	6	2113	-	0,6,6	-	-	-		
86	OHX	1	3955	-	0,6,6	-	-	-		
86	OHX	1	3933	-	0,6,6	-	-	-		
86	OHX	sR	401	-	0,6,6	-	-	-		
86	OHX	1	3782	-	0,6,6	-	-	-		
86	OHX	2	2059	-	0,6,6	-	-	-		
86	OHX	5	3831	-	0,6,6	-	-	-		
86	OHX	7	221	-	0,6,6	-	-	-		
86	OHX	1	3835	-	0,6,6	-	-	-		
86	OHX	5	3846	-	0,6,6	-	-	-		
86	OHX	5	3903	-	0,6,6	-	-	-		
86	OHX	1	4109	-	0,6,6	-	-	-		
86	OHX	5	4166	-	0,6,6	-	-	-		
86	OHX	1	3798	-	0,6,6	-	-	-		
86	OHX	6	2025	-	0,6,6	-	-	-		
86	OHX	O1	201	-	0,6,6	-	-	-		
86	OHX	m0	303	-	0,6,6	-	-	-		
86	OHX	5	4069	-	0,6,6	-	-	-		
86	OHX	1	3874	-	0,6,6	-	-	-		
86	OHX	5	3837	-	0,6,6	-	-	-		
86	OHX	6	2093	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	4128	-	0,6,6	-	-	-		
86	OHX	5	3883	-	0,6,6	-	-	-		
86	OHX	1	3938	-	0,6,6	-	-	-		
86	OHX	8	223	-	0,6,6	-	-	-		
86	OHX	5	3975	-	0,6,6	-	-	-		
86	OHX	2	2115	-	0,6,6	-	-	-		
86	OHX	5	3981	-	0,6,6	-	-	-		
86	OHX	5	4082	-	0,6,6	-	-	-		
86	OHX	5	4157	-	0,6,6	-	-	-		
86	OHX	1	3849	-	0,6,6	-	-	-		
86	OHX	1	3998	-	0,6,6	-	-	-		
86	OHX	1	3905	-	0,6,6	-	-	-		
86	OHX	6	2163	-	0,6,6	-	-	-		
86	OHX	5	4151	-	0,6,6	-	-	-		
86	OHX	6	2035	-	0,6,6	-	-	-		
86	OHX	2	2064	-	0,6,6	-	-	-		
86	OHX	6	2081	-	0,6,6	-	-	-		
86	OHX	1	3864	-	0,6,6	-	-	-		
86	OHX	5	3873	-	0,6,6	-	-	-		
86	OHX	6	2127	-	0,6,6	-	-	-		
86	OHX	1	3880	-	0,6,6	-	-	-		
86	OHX	Q2	503	-	0,6,6	-	-	-		
86	OHX	5	4115	-	0,6,6	-	-	-		
86	OHX	5	3817	-	0,6,6	-	-	-		
86	OHX	5	4071	-	0,6,6	-	-	-		
86	OHX	6	2147	-	0,6,6	-	-	-		
86	OHX	5	4154	-	0,6,6	-	-	-		
86	OHX	2	1992	-	0,6,6	-	-	-		
86	OHX	5	3829	-	0,6,6	-	-	-		
86	OHX	5	4160	-	0,6,6	-	-	-		
86	OHX	1	3931	-	0,6,6	-	-	-		
86	OHX	5	4131	-	0,6,6	-	-	-		
86	OHX	1	3783	-	0,6,6	-	-	-		
86	OHX	6	2179	-	0,6,6	-	-	-		
86	OHX	5	3850	-	0,6,6	-	-	-		
86	OHX	5	3972	-	0,6,6	-	-	-		
86	OHX	5	4077	-	0,6,6	-	-	-		
86	OHX	8	226	-	0,6,6	-	-	-		
86	OHX	5	3967	-	0,6,6	-	-	-		
86	OHX	5	3932	-	0,6,6	-	-	-		
86	OHX	5	3856	-	0,6,6	-	-	-		
86	OHX	1	4033	-	0,6,6	-	-	-		
86	OHX	6	2120	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	6	2134	-	0,6,6	-	-	-		
86	OHX	6	2136	-	0,6,6	-	-	-		
86	OHX	1	3767	-	0,6,6	-	-	-		
86	OHX	3	216	-	0,6,6	-	-	-		
86	OHX	5	3914	-	0,6,6	-	-	-		
86	OHX	2	2054	-	0,6,6	-	-	-		
86	OHX	7	215	-	0,6,6	-	-	-		
86	OHX	5	3859	-	0,6,6	-	-	-		
86	OHX	1	3829	-	0,6,6	-	-	-		
86	OHX	2	2061	-	0,6,6	-	-	-		
86	OHX	2	2058	-	0,6,6	-	-	-		
86	OHX	c8	203	-	0,6,6	-	-	-		
86	OHX	5	4144	-	0,6,6	-	-	-		
86	OHX	8	214	-	0,6,6	-	-	-		
86	OHX	1	4026	-	0,6,6	-	-	-		
86	OHX	6	2115	-	0,6,6	-	-	-		
86	OHX	6	2049	-	0,6,6	-	-	-		
86	OHX	6	2133	-	0,6,6	-	-	-		
86	OHX	1	3802	-	0,6,6	-	-	-		
86	OHX	5	3860	-	0,6,6	-	-	-		
86	OHX	1	3832	-	0,6,6	-	-	-		
86	OHX	1	3856	-	0,6,6	-	-	-		
86	OHX	1	4103	-	0,6,6	-	-	-		
86	OHX	2	2149	-	0,6,6	-	-	-		
86	OHX	2	2123	-	0,6,6	-	-	-		
86	OHX	1	4015	-	0,6,6	-	-	-		
86	OHX	4	231	-	0,6,6	-	-	-		
86	OHX	5	4023	-	0,6,6	-	-	-		
86	OHX	2	2037	-	0,6,6	-	-	-		
86	OHX	6	2052	-	0,6,6	-	-	-		
86	OHX	4	227	-	0,6,6	-	-	-		
86	OHX	1	4065	-	0,6,6	-	-	-		
86	OHX	5	4094	-	0,6,6	-	-	-		
86	OHX	2	2046	-	0,6,6	-	-	-		
86	OHX	1	3859	-	0,6,6	-	-	-		
86	OHX	5	4119	-	0,6,6	-	-	-		
86	OHX	5	4122	-	0,6,6	-	-	-		
86	OHX	5	4105	-	0,6,6	-	-	-		
86	OHX	6	2042	-	0,6,6	-	-	-		
86	OHX	5	4114	-	0,6,6	-	-	-		
86	OHX	2	2077	-	0,6,6	-	-	-		
86	OHX	1	4041	-	0,6,6	-	-	-		
86	OHX	1	3952	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	4052	-	0,6,6	-	-	-		
86	OHX	4	219	-	0,6,6	-	-	-		
88	SPS	5	3403	-	20,23,23	3.38	10 (50%)	18,30,30	3.11	10 (55%)
86	OHX	6	2056	-	0,6,6	-	-	-		
86	OHX	1	4055	-	0,6,6	-	-	-		
86	OHX	6	2154	-	0,6,6	-	-	-		
86	OHX	1	3810	-	0,6,6	-	-	-		
86	OHX	2	2067	-	0,6,6	-	-	-		
86	OHX	2	2117	-	0,6,6	-	-	-		
86	OHX	6	2063	-	0,6,6	-	-	-		
86	OHX	6	2157	-	0,6,6	-	-	-		
86	OHX	2	2008	-	0,6,6	-	-	-		
86	OHX	5	4106	-	0,6,6	-	-	-		
86	OHX	1	4039	-	0,6,6	-	-	-		
86	OHX	5	3843	-	0,6,6	-	-	-		
86	OHX	m8	201	-	0,6,6	-	-	-		
86	OHX	1	4088	-	0,6,6	-	-	-		
86	OHX	4	230	-	0,6,6	-	-	-		
86	OHX	4	225	-	0,6,6	-	-	-		
86	OHX	5	4061	-	0,6,6	-	-	-		
86	OHX	S1	301	-	0,6,6	-	-	-		
86	OHX	1	3951	-	0,6,6	-	-	-		
86	OHX	5	3946	-	0,6,6	-	-	-		
86	OHX	1	3902	-	0,6,6	-	-	-		
86	OHX	2	2093	-	0,6,6	-	-	-		
86	OHX	6	2140	-	0,6,6	-	-	-		
86	OHX	1	3875	-	0,6,6	-	-	-		
86	OHX	6	2167	-	0,6,6	-	-	-		
86	OHX	2	2044	-	0,6,6	-	-	-		
86	OHX	6	2014	-	0,6,6	-	-	-		
86	OHX	5	3988	-	0,6,6	-	-	-		
86	OHX	5	4049	-	0,6,6	-	-	-		
86	OHX	5	3943	-	0,6,6	-	-	-		
86	OHX	2	2023	-	0,6,6	-	-	-		
86	OHX	1	3803	-	0,6,6	-	-	-		
86	OHX	5	3866	-	0,6,6	-	-	-		
86	OHX	5	3947	-	0,6,6	-	-	-		
86	OHX	2	2066	-	0,6,6	-	-	-		
86	OHX	2	2114	-	0,6,6	-	-	-		
86	OHX	1	3878	-	0,6,6	-	-	-		
86	OHX	6	2103	-	0,6,6	-	-	-		
86	OHX	5	4141	-	0,6,6	-	-	-		
86	OHX	1	4035	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	1	4009	-	0,6,6	-	-	-		
86	OHX	O3	201	-	0,6,6	-	-	-		
86	OHX	1	3945	-	0,6,6	-	-	-		
86	OHX	1	3863	-	0,6,6	-	-	-		
86	OHX	m6	201	-	0,6,6	-	-	-		
86	OHX	1	3993	-	0,6,6	-	-	-		
86	OHX	1	3973	-	0,6,6	-	-	-		
86	OHX	5	3953	-	0,6,6	-	-	-		
86	OHX	1	3936	-	0,6,6	-	-	-		
86	OHX	5	3841	-	0,6,6	-	-	-		
86	OHX	2	2071	-	0,6,6	-	-	-		
86	OHX	1	3764	-	0,6,6	-	-	-		
86	OHX	5	4024	-	0,6,6	-	-	-		
86	OHX	5	3822	-	0,6,6	-	-	-		
86	OHX	5	3838	-	0,6,6	-	-	-		
86	OHX	1	4051	-	0,6,6	-	-	-		
86	OHX	8	221	-	0,6,6	-	-	-		
86	OHX	1	3768	-	0,6,6	-	-	-		
86	OHX	6	2074	-	0,6,6	-	-	-		
86	OHX	m7	204	-	0,6,6	-	-	-		
86	OHX	2	2150	-	0,6,6	-	-	-		
86	OHX	5	3949	-	0,6,6	-	-	-		
86	OHX	2	2105	-	0,6,6	-	-	-		
86	OHX	5	4063	-	0,6,6	-	-	-		
86	OHX	SR	401	-	0,6,6	-	-	-		
86	OHX	3	215	-	0,6,6	-	-	-		
86	OHX	1	4020	-	0,6,6	-	-	-		
86	OHX	S6	301	-	0,6,6	-	-	-		
86	OHX	2	2012	-	0,6,6	-	-	-		
86	OHX	6	2024	-	0,6,6	-	-	-		
86	OHX	6	2121	-	0,6,6	-	-	-		
86	OHX	5	3839	-	0,6,6	-	-	-		
86	OHX	6	2089	-	0,6,6	-	-	-		
86	OHX	l5	303	-	0,6,6	-	-	-		
86	OHX	1	4084	-	0,6,6	-	-	-		
86	OHX	6	2160	-	0,6,6	-	-	-		
86	OHX	2	2108	-	0,6,6	-	-	-		
86	OHX	1	4038	-	0,6,6	-	-	-		
86	OHX	3	212	-	0,6,6	-	-	-		
86	OHX	1	4028	-	0,6,6	-	-	-		
86	OHX	2	2013	-	0,6,6	-	-	-		
86	OHX	7	224	-	0,6,6	-	-	-		
86	OHX	6	2034	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	3830	-	0,6,6	-	-	-		
86	OHX	5	3994	-	0,6,6	-	-	-		
86	OHX	5	3891	-	0,6,6	-	-	-		
86	OHX	5	3966	-	0,6,6	-	-	-		
86	OHX	1	4001	-	0,6,6	-	-	-		
86	OHX	5	3955	36	0,6,6	-	-	-		
86	OHX	6	2126	-	0,6,6	-	-	-		
86	OHX	5	4098	-	0,6,6	-	-	-		
86	OHX	1	3825	-	0,6,6	-	-	-		
86	OHX	6	2086	-	0,6,6	-	-	-		
86	OHX	1	3883	-	0,6,6	-	-	-		
86	OHX	1	3899	-	0,6,6	-	-	-		
86	OHX	2	2034	-	0,6,6	-	-	-		
86	OHX	5	3861	-	0,6,6	-	-	-		
86	OHX	5	3918	-	0,6,6	-	-	-		
86	OHX	6	2028	-	0,6,6	-	-	-		
86	OHX	1	3796	-	0,6,6	-	-	-		
86	OHX	2	2014	-	0,6,6	-	-	-		
86	OHX	5	4163	-	0,6,6	-	-	-		
86	OHX	5	4161	-	0,6,6	-	-	-		
86	OHX	5	3980	-	0,6,6	-	-	-		
86	OHX	1	4100	-	0,6,6	-	-	-		
86	OHX	2	2146	-	0,6,6	-	-	-		
86	OHX	5	4005	-	0,6,6	-	-	-		
86	OHX	5	3869	-	0,6,6	-	-	-		
86	OHX	2	2128	-	0,6,6	-	-	-		
86	OHX	1	4002	-	0,6,6	-	-	-		
86	OHX	5	4064	-	0,6,6	-	-	-		
86	OHX	5	4104	-	0,6,6	-	-	-		
86	OHX	5	4136	-	0,6,6	-	-	-		
86	OHX	7	216	-	0,6,6	-	-	-		
86	OHX	4	222	-	0,6,6	-	-	-		
86	OHX	1	3837	-	0,6,6	-	-	-		
86	OHX	6	2027	-	0,6,6	-	-	-		
86	OHX	1	4078	-	0,6,6	-	-	-		
86	OHX	1	4081	-	0,6,6	-	-	-		
86	OHX	6	2181	-	0,6,6	-	-	-		
86	OHX	5	4113	-	0,6,6	-	-	-		
86	OHX	2	2028	-	0,6,6	-	-	-		
86	OHX	4	218	-	0,6,6	-	-	-		
86	OHX	d9	102	-	0,6,6	-	-	-		
86	OHX	1	3943	-	0,6,6	-	-	-		
86	OHX	5	4006	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	4082	-	0,6,6	-	-	-		
86	OHX	6	2182	-	0,6,6	-	-	-		
86	OHX	6	2168	-	0,6,6	-	-	-		
86	OHX	5	4088	-	0,6,6	-	-	-		
86	OHX	6	2038	-	0,6,6	-	-	-		
86	OHX	1	3865	-	0,6,6	-	-	-		
86	OHX	6	2098	-	0,6,6	-	-	-		
86	OHX	8	230	-	0,6,6	-	-	-		
86	OHX	6	2125	-	0,6,6	-	-	-		
86	OHX	1	4099	-	0,6,6	-	-	-		
86	OHX	1	4073	-	0,6,6	-	-	-		
86	OHX	5	3875	-	0,6,6	-	-	-		
86	OHX	6	2172	-	0,6,6	-	-	-		
86	OHX	1	3805	-	0,6,6	-	-	-		
86	OHX	2	2104	-	0,6,6	-	-	-		
86	OHX	5	4072	-	0,6,6	-	-	-		
86	OHX	1	3845	-	0,6,6	-	-	-		
86	OHX	6	2135	-	0,6,6	-	-	-		
86	OHX	1	3817	-	0,6,6	-	-	-		
86	OHX	2	2091	-	0,6,6	-	-	-		
86	OHX	6	2169	-	0,6,6	-	-	-		
86	OHX	8	219	-	0,6,6	-	-	-		
86	OHX	6	2075	-	0,6,6	-	-	-		
86	OHX	5	3926	-	0,6,6	-	-	-		
86	OHX	2	2080	-	0,6,6	-	-	-		
86	OHX	5	3923	-	0,6,6	-	-	-		
86	OHX	2	2125	-	0,6,6	-	-	-		
86	OHX	5	4041	-	0,6,6	-	-	-		
89	PRO	C	101	89,84	5,7,8	0.48	0	7,8,10	1.39	1 (14%)
86	OHX	2	2021	-	0,6,6	-	-	-		
86	OHX	1	3967	-	0,6,6	-	-	-		
86	OHX	2	2006	-	0,6,6	-	-	-		
86	OHX	2	2007	-	0,6,6	-	-	-		
86	OHX	1	3840	-	0,6,6	-	-	-		
86	OHX	5	3979	-	0,6,6	-	-	-		
86	OHX	2	2074	-	0,6,6	-	-	-		
86	OHX	3	211	-	0,6,6	-	-	-		
86	OHX	2	1993	-	0,6,6	-	-	-		
86	OHX	2	2050	-	0,6,6	-	-	-		
86	OHX	2	2133	-	0,6,6	-	-	-		
86	OHX	2	2099	-	0,6,6	-	-	-		
86	OHX	1	3813	-	0,6,6	-	-	-		
86	OHX	1	4097	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	2	2005	-	0,6,6	-	-	-		
86	OHX	6	2095	-	0,6,6	-	-	-		
86	OHX	5	3851	-	0,6,6	-	-	-		
86	OHX	5	4040	-	0,6,6	-	-	-		
86	OHX	5	4102	-	0,6,6	-	-	-		
86	OHX	5	4117	-	0,6,6	-	-	-		
86	OHX	c5	202	17	0,6,6	-	-	-		
86	OHX	6	2138	-	0,6,6	-	-	-		
86	OHX	6	2173	-	0,6,6	-	-	-		
86	OHX	5	3920	-	0,6,6	-	-	-		
86	OHX	1	3950	-	0,6,6	-	-	-		
86	OHX	6	2096	-	0,6,6	-	-	-		
86	OHX	1	3814	-	0,6,6	-	-	-		
86	OHX	6	2059	-	0,6,6	-	-	-		
86	OHX	5	4025	-	0,6,6	-	-	-		
86	OHX	1	3836	-	0,6,6	-	-	-		
86	OHX	1	4048	-	0,6,6	-	-	-		
86	OHX	1	3809	-	0,6,6	-	-	-		
86	OHX	5	3832	-	0,6,6	-	-	-		
86	OHX	2	2068	-	0,6,6	-	-	-		
86	OHX	5	3913	-	0,6,6	-	-	-		
86	OHX	5	4101	-	0,6,6	-	-	-		
86	OHX	m5	305	-	0,6,6	-	-	-		
86	OHX	5	3961	-	0,6,6	-	-	-		
86	OHX	5	3922	-	0,6,6	-	-	-		
86	OHX	5	3858	-	0,6,6	-	-	-		
86	OHX	1	3811	-	0,6,6	-	-	-		
86	OHX	1	3769	-	0,6,6	-	-	-		
86	OHX	5	3887	-	0,6,6	-	-	-		
86	OHX	1	4110	-	0,6,6	-	-	-		
86	OHX	2	2047	-	0,6,6	-	-	-		
86	OHX	4	216	-	0,6,6	-	-	-		
86	OHX	6	2109	-	0,6,6	-	-	-		
86	OHX	6	2069	-	0,6,6	-	-	-		
86	OHX	1	3957	-	0,6,6	-	-	-		
86	OHX	5	3888	-	0,6,6	-	-	-		
86	OHX	6	2048	-	0,6,6	-	-	-		
86	OHX	5	3890	-	0,6,6	-	-	-		
86	OHX	6	2171	-	0,6,6	-	-	-		
86	OHX	5	4004	-	0,6,6	-	-	-		
86	OHX	5	4091	-	0,6,6	-	-	-		
86	OHX	8	217	-	0,6,6	-	-	-		
86	OHX	2	2116	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	2	2051	-	0,6,6	-	-	-		
86	OHX	5	3825	-	0,6,6	-	-	-		
86	OHX	1	3958	-	0,6,6	-	-	-		
86	OHX	1	3860	-	0,6,6	-	-	-		
86	OHX	5	4029	-	0,6,6	-	-	-		
86	OHX	5	4168	-	0,6,6	-	-	-		
86	OHX	1	3772	-	0,6,6	-	-	-		
86	OHX	5	4139	-	0,6,6	-	-	-		
86	OHX	6	2021	-	0,6,6	-	-	-		
86	OHX	5	4044	-	0,6,6	-	-	-		
86	OHX	1	3846	-	0,6,6	-	-	-		
86	OHX	1	3887	-	0,6,6	-	-	-		
86	OHX	1	4105	-	0,6,6	-	-	-		
86	OHX	8	212	-	0,6,6	-	-	-		
86	OHX	5	3934	-	0,6,6	-	-	-		
86	OHX	5	4028	-	0,6,6	-	-	-		
86	OHX	5	4081	-	0,6,6	-	-	-		
86	OHX	1	3804	-	0,6,6	-	-	-		
86	OHX	1	3940	-	0,6,6	-	-	-		
86	OHX	2	2102	-	0,6,6	-	-	-		
86	OHX	6	2174	-	0,6,6	-	-	-		
86	OHX	2	2130	-	0,6,6	-	-	-		
86	OHX	S9	201	-	0,6,6	-	-	-		
86	OHX	1	3792	-	0,6,6	-	-	-		
86	OHX	1	4003	-	0,6,6	-	-	-		
86	OHX	1	3828	-	0,6,6	-	-	-		
86	OHX	5	4100	-	0,6,6	-	-	-		
86	OHX	6	2166	-	0,6,6	-	-	-		
86	OHX	2	2112	-	0,6,6	-	-	-		
86	OHX	1	4031	-	0,6,6	-	-	-		
86	OHX	5	3990	-	0,6,6	-	-	-		
86	OHX	5	4172	-	0,6,6	-	-	-		
86	OHX	5	3944	-	0,6,6	-	-	-		
86	OHX	6	2030	-	0,6,6	-	-	-		
86	OHX	1	3935	-	0,6,6	-	-	-		
86	OHX	6	2079	-	0,6,6	-	-	-		
86	OHX	2	2075	-	0,6,6	-	-	-		
86	OHX	5	4110	-	0,6,6	-	-	-		
86	OHX	1	3841	-	0,6,6	-	-	-		
86	OHX	1	3934	-	0,6,6	-	-	-		
86	OHX	1	3790	-	0,6,6	-	-	-		
86	OHX	1	4108	-	0,6,6	-	-	-		
86	OHX	5	4080	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	l9	201	-	0,6,6	-	-	-		
86	OHX	1	4044	-	0,6,6	-	-	-		
86	OHX	5	4086	-	0,6,6	-	-	-		
86	OHX	1	4061	-	0,6,6	-	-	-		
86	OHX	1	4093	-	0,6,6	-	-	-		
86	OHX	6	2012	-	0,6,6	-	-	-		
86	OHX	1	3816	-	0,6,6	-	-	-		
86	OHX	1	3960	-	0,6,6	-	-	-		
86	OHX	5	3937	-	0,6,6	-	-	-		
86	OHX	1	3984	-	0,6,6	-	-	-		
86	OHX	5	4015	-	0,6,6	-	-	-		
86	OHX	n3	202	-	0,6,6	-	-	-		
86	OHX	1	3850	-	0,6,6	-	-	-		
86	OHX	2	2009	-	0,6,6	-	-	-		
86	OHX	5	3974	-	0,6,6	-	-	-		
86	OHX	2	2118	-	0,6,6	-	-	-		
86	OHX	2	2029	-	0,6,6	-	-	-		
86	OHX	5	3992	-	0,6,6	-	-	-		
86	OHX	6	2124	-	0,6,6	-	-	-		
86	OHX	2	2045	-	0,6,6	-	-	-		
86	OHX	2	2076	-	0,6,6	-	-	-		
86	OHX	5	3995	-	0,6,6	-	-	-		
86	OHX	5	4019	-	0,6,6	-	-	-		
86	OHX	1	3861	-	0,6,6	-	-	-		
86	OHX	2	2070	-	0,6,6	-	-	-		
86	OHX	6	2106	-	0,6,6	-	-	-		
86	OHX	6	2102	-	0,6,6	-	-	-		
86	OHX	1	3852	-	0,6,6	-	-	-		
86	OHX	1	3830	-	0,6,6	-	-	-		
86	OHX	5	4146	-	0,6,6	-	-	-		
86	OHX	5	4000	-	0,6,6	-	-	-		
86	OHX	M0	304	-	0,6,6	-	-	-		
86	OHX	2	1991	-	0,6,6	-	-	-		
86	OHX	1	3855	-	0,6,6	-	-	-		
86	OHX	1	3980	-	0,6,6	-	-	-		
86	OHX	5	4099	-	0,6,6	-	-	-		
86	OHX	6	2132	-	0,6,6	-	-	-		
86	OHX	d4	201	-	0,6,6	-	-	-		
86	OHX	6	2047	-	0,6,6	-	-	-		
86	OHX	8	231	-	0,6,6	-	-	-		
86	OHX	M0	303	-	0,6,6	-	-	-		
86	OHX	2	2049	-	0,6,6	-	-	-		
86	OHX	1	3891	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	3966	-	0,6,6	-	-	-		
86	OHX	5	3845	-	0,6,6	-	-	-		
86	OHX	5	3905	-	0,6,6	-	-	-		
86	OHX	8	224	-	0,6,6	-	-	-		
86	OHX	5	4046	-	0,6,6	-	-	-		
86	OHX	1	3886	-	0,6,6	-	-	-		
86	OHX	6	2057	-	0,6,6	-	-	-		
86	OHX	6	2146	-	0,6,6	-	-	-		
86	OHX	1	3976	-	0,6,6	-	-	-		
86	OHX	2	2052	-	0,6,6	-	-	-		
86	OHX	1	4019	-	0,6,6	-	-	-		
86	OHX	1	4074	-	0,6,6	-	-	-		
86	OHX	6	2040	-	0,6,6	-	-	-		
86	OHX	1	4058	-	0,6,6	-	-	-		
86	OHX	1	3895	-	0,6,6	-	-	-		
86	OHX	L3	403	-	0,6,6	-	-	-		
86	OHX	2	2135	-	0,6,6	-	-	-		
86	OHX	1	3956	-	0,6,6	-	-	-		
86	OHX	C5	201	17	0,6,6	-	-	-		
86	OHX	6	2026	-	0,6,6	-	-	-		
86	OHX	6	2131	-	0,6,6	-	-	-		
86	OHX	2	2094	-	0,6,6	-	-	-		
86	OHX	5	4068	-	0,6,6	-	-	-		
86	OHX	5	3824	-	0,6,6	-	-	-		
86	OHX	6	2020	-	0,6,6	-	-	-		
86	OHX	1	3866	-	0,6,6	-	-	-		
86	OHX	1	4064	-	0,6,6	-	-	-		
86	OHX	5	3919	-	0,6,6	-	-	-		
86	OHX	5	3877	-	0,6,6	-	-	-		
86	OHX	5	4043	-	0,6,6	-	-	-		
86	OHX	6	2176	-	0,6,6	-	-	-		
86	OHX	1	3978	-	0,6,6	-	-	-		
86	OHX	5	4156	-	0,6,6	-	-	-		
86	OHX	1	3898	-	0,6,6	-	-	-		
86	OHX	5	4134	-	0,6,6	-	-	-		
86	OHX	6	2180	-	0,6,6	-	-	-		
86	OHX	1	3926	-	0,6,6	-	-	-		
86	OHX	2	2097	-	0,6,6	-	-	-		
86	OHX	6	2032	-	0,6,6	-	-	-		
86	OHX	6	2053	-	0,6,6	-	-	-		
86	OHX	5	3986	-	0,6,6	-	-	-		
86	OHX	2	2119	-	0,6,6	-	-	-		
86	OHX	1	4083	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	5	4027	-	0,6,6	-	-	-		
86	OHX	1	3979	-	0,6,6	-	-	-		
86	OHX	5	4158	-	0,6,6	-	-	-		
86	OHX	1	4024	-	0,6,6	-	-	-		
86	OHX	6	2091	-	0,6,6	-	-	-		
86	OHX	1	3884	-	0,6,6	-	-	-		
86	OHX	1	3787	-	0,6,6	-	-	-		
86	OHX	2	1995	-	0,6,6	-	-	-		
86	OHX	5	4092	-	0,6,6	-	-	-		
86	OHX	2	2141	-	0,6,6	-	-	-		
86	OHX	2	2056	-	0,6,6	-	-	-		
86	OHX	1	3797	-	0,6,6	-	-	-		
86	OHX	1	3928	-	0,6,6	-	-	-		
86	OHX	1	3990	-	0,6,6	-	-	-		
86	OHX	5	3886	-	0,6,6	-	-	-		
86	OHX	l5	302	-	0,6,6	-	-	-		
86	OHX	5	3940	-	0,6,6	-	-	-		
86	OHX	1	3923	-	0,6,6	-	-	-		
86	OHX	5	4103	-	0,6,6	-	-	-		
86	OHX	5	3965	-	0,6,6	-	-	-		
86	OHX	5	3827	-	0,6,6	-	-	-		
86	OHX	1	3939	-	0,6,6	-	-	-		
86	OHX	1	3779	-	0,6,6	-	-	-		
86	OHX	1	3823	-	0,6,6	-	-	-		
86	OHX	1	3924	-	0,6,6	-	-	-		
86	OHX	5	3818	-	0,6,6	-	-	-		
86	OHX	5	3952	-	0,6,6	-	-	-		
86	OHX	2	2031	-	0,6,6	-	-	-		
86	OHX	4	228	-	0,6,6	-	-	-		
86	OHX	6	2105	-	0,6,6	-	-	-		
86	OHX	5	3823	-	0,6,6	-	-	-		
86	OHX	2	2085	-	0,6,6	-	-	-		
86	OHX	1	4080	-	0,6,6	-	-	-		
86	OHX	6	2142	-	0,6,6	-	-	-		
86	OHX	1	4018	-	0,6,6	-	-	-		
86	OHX	2	2109	-	0,6,6	-	-	-		
86	OHX	6	2143	-	0,6,6	-	-	-		
86	OHX	1	3869	-	0,6,6	-	-	-		
86	OHX	2	2069	-	0,6,6	-	-	-		
86	OHX	5	4067	-	0,6,6	-	-	-		
86	OHX	1	4040	-	0,6,6	-	-	-		
86	OHX	2	2030	-	0,6,6	-	-	-		
86	OHX	5	4090	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	4059	-	0,6,6	-	-	-		
86	OHX	6	2156	-	0,6,6	-	-	-		
86	OHX	1	3858	-	0,6,6	-	-	-		
86	OHX	1	3971	-	0,6,6	-	-	-		
86	OHX	5	3960	-	0,6,6	-	-	-		
86	OHX	2	2001	-	0,6,6	-	-	-		
86	OHX	1	4098	-	0,6,6	-	-	-		
86	OHX	6	2064	-	0,6,6	-	-	-		
86	OHX	2	2137	-	0,6,6	-	-	-		
86	OHX	M9	202	-	0,6,6	-	-	-		
86	OHX	5	3872	-	0,6,6	-	-	-		
86	OHX	5	3897	-	0,6,6	-	-	-		
86	OHX	6	2073	-	0,6,6	-	-	-		
86	OHX	5	4014	-	0,6,6	-	-	-		
86	OHX	M5	303	-	0,6,6	-	-	-		
86	OHX	1	4086	-	0,6,6	-	-	-		
86	OHX	5	4076	-	0,6,6	-	-	-		
86	OHX	m1	201	-	0,6,6	-	-	-		
86	OHX	5	4126	-	0,6,6	-	-	-		
86	OHX	5	3969	-	0,6,6	-	-	-		
86	OHX	2	2000	-	0,6,6	-	-	-		
86	OHX	1	4037	-	0,6,6	-	-	-		
86	OHX	5	3942	-	0,6,6	-	-	-		
86	OHX	5	3963	-	0,6,6	-	-	-		
86	OHX	5	3985	-	0,6,6	-	-	-		
86	OHX	2	2004	-	0,6,6	-	-	-		
86	OHX	1	3999	-	0,6,6	-	-	-		
86	OHX	7	223	-	0,6,6	-	-	-		
86	OHX	1	4111	-	0,6,6	-	-	-		
86	OHX	5	3844	-	0,6,6	-	-	-		
86	OHX	6	2178	-	0,6,6	-	-	-		
86	OHX	1	4023	-	0,6,6	-	-	-		
86	OHX	1	3991	-	0,6,6	-	-	-		
86	OHX	6	2111	-	0,6,6	-	-	-		
86	OHX	5	3867	-	0,6,6	-	-	-		
86	OHX	6	2129	-	0,6,6	-	-	-		
86	OHX	2	2101	-	0,6,6	-	-	-		
86	OHX	6	2110	-	0,6,6	-	-	-		
86	OHX	5	3983	-	0,6,6	-	-	-		
86	OHX	1	3773	-	0,6,6	-	-	-		
86	OHX	1	3774	-	0,6,6	-	-	-		
86	OHX	1	3827	-	0,6,6	-	-	-		
86	OHX	1	3929	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	1	3942	-	0,6,6	-	-	-		
86	OHX	2	2079	-	0,6,6	-	-	-		
86	OHX	6	2107	-	0,6,6	-	-	-		
86	OHX	5	4036	-	0,6,6	-	-	-		
86	OHX	1	3975	-	0,6,6	-	-	-		
86	OHX	1	4029	-	0,6,6	-	-	-		
86	OHX	5	3865	-	0,6,6	-	-	-		
86	OHX	5	4135	-	0,6,6	-	-	-		
86	OHX	5	3893	-	0,6,6	-	-	-		
86	OHX	1	3870	-	0,6,6	-	-	-		
86	OHX	6	2065	-	0,6,6	-	-	-		
86	OHX	2	2129	-	0,6,6	-	-	-		
86	OHX	5	4079	-	0,6,6	-	-	-		
86	OHX	1	3915	-	0,6,6	-	-	-		
86	OHX	1	4054	-	0,6,6	-	-	-		
86	OHX	5	3819	-	0,6,6	-	-	-		
86	OHX	1	3808	-	0,6,6	-	-	-		
86	OHX	1	4089	-	0,6,6	-	-	-		
86	OHX	6	2055	-	0,6,6	-	-	-		
86	OHX	5	3828	-	0,6,6	-	-	-		
86	OHX	2	2089	-	0,6,6	-	-	-		
86	OHX	1	3912	-	0,6,6	-	-	-		
86	OHX	2	2124	-	0,6,6	-	-	-		
86	OHX	8	213	-	0,6,6	-	-	-		
86	OHX	1	4077	-	0,6,6	-	-	-		
86	OHX	5	3910	-	0,6,6	-	-	-		
86	OHX	1	4107	-	0,6,6	-	-	-		
86	OHX	6	2083	-	0,6,6	-	-	-		
86	OHX	1	4092	-	0,6,6	-	-	-		
86	OHX	5	3941	-	0,6,6	-	-	-		
86	OHX	5	3826	-	0,6,6	-	-	-		
86	OHX	1	4021	-	0,6,6	-	-	-		
86	OHX	6	2067	1	0,6,6	-	-	-		
86	OHX	5	4129	-	0,6,6	-	-	-		
86	OHX	6	2159	-	0,6,6	-	-	-		
86	OHX	2	2132	-	0,6,6	-	-	-		
86	OHX	5	3954	-	0,6,6	-	-	-		
86	OHX	1	3888	-	0,6,6	-	-	-		
86	OHX	1	4007	-	0,6,6	-	-	-		
86	OHX	1	3881	-	0,6,6	-	-	-		
86	OHX	6	2175	-	0,6,6	-	-	-		
86	OHX	5	3871	-	0,6,6	-	-	-		
86	OHX	5	4042	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	l4	403	-	0,6,6	-	-	-		
86	OHX	1	3807	-	0,6,6	-	-	-		
86	OHX	1	3937	-	0,6,6	-	-	-		
86	OHX	2	1998	-	0,6,6	-	-	-		
86	OHX	5	4153	-	0,6,6	-	-	-		
86	OHX	6	2033	-	0,6,6	-	-	-		
86	OHX	4	220	-	0,6,6	-	-	-		
86	OHX	1	3775	-	0,6,6	-	-	-		
86	OHX	2	2145	-	0,6,6	-	-	-		
86	OHX	5	3840	-	0,6,6	-	-	-		
86	OHX	6	2114	-	0,6,6	-	-	-		
86	OHX	5	4008	-	0,6,6	-	-	-		
86	OHX	2	2024	-	0,6,6	-	-	-		
86	OHX	5	3916	-	0,6,6	-	-	-		
86	OHX	2	2017	-	0,6,6	-	-	-		
86	OHX	1	3910	-	0,6,6	-	-	-		
86	OHX	5	4022	-	0,6,6	-	-	-		
86	OHX	1	3833	-	0,6,6	-	-	-		
86	OHX	6	2039	-	0,6,6	-	-	-		
86	OHX	1	3785	-	0,6,6	-	-	-		
86	OHX	3	209	-	0,6,6	-	-	-		
86	OHX	6	2165	-	0,6,6	-	-	-		
86	OHX	5	4123	-	0,6,6	-	-	-		
86	OHX	1	3822	-	0,6,6	-	-	-		
86	OHX	5	4033	-	0,6,6	-	-	-		
86	OHX	2	1999	-	0,6,6	-	-	-		
86	OHX	6	2019	-	0,6,6	-	-	-		
86	OHX	2	2020	-	0,6,6	-	-	-		
86	OHX	6	2090	-	0,6,6	-	-	-		
86	OHX	4	217	-	0,6,6	-	-	-		
86	OHX	C8	201	-	0,6,6	-	-	-		
86	OHX	5	4062	-	0,6,6	-	-	-		
86	OHX	1	3819	-	0,6,6	-	-	-		
86	OHX	5	4130	-	0,6,6	-	-	-		
86	OHX	5	4162	-	0,6,6	-	-	-		
86	OHX	2	2151	-	0,6,6	-	-	-		
86	OHX	1	4000	-	0,6,6	-	-	-		
86	OHX	5	4020	-	0,6,6	-	-	-		
86	OHX	7	220	-	0,6,6	-	-	-		
86	OHX	o6	201	-	0,6,6	-	-	-		
86	OHX	5	4155	-	0,6,6	-	-	-		
86	OHX	6	2104	-	0,6,6	-	-	-		
86	OHX	2	2032	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	7	222	-	0,6,6	-	-	-		
86	OHX	1	3977	-	0,6,6	-	-	-		
86	OHX	2	2053	-	0,6,6	-	-	-		
86	OHX	1	3959	-	0,6,6	-	-	-		
86	OHX	1	4043	-	0,6,6	-	-	-		
86	OHX	1	3921	-	0,6,6	-	-	-		
86	OHX	1	3981	-	0,6,6	-	-	-		
86	OHX	1	3985	-	0,6,6	-	-	-		
86	OHX	1	4025	-	0,6,6	-	-	-		
86	OHX	7	218	-	0,6,6	-	-	-		
86	OHX	1	3784	-	0,6,6	-	-	-		
86	OHX	5	3964	-	0,6,6	-	-	-		
86	OHX	5	4149	-	0,6,6	-	-	-		
86	OHX	2	2147	-	0,6,6	-	-	-		
86	OHX	6	2046	-	0,6,6	-	-	-		
86	OHX	6	2150	-	0,6,6	-	-	-		
86	OHX	2	2111	-	0,6,6	-	-	-		
86	OHX	1	4056	-	0,6,6	-	-	-		
86	OHX	2	2078	-	0,6,6	-	-	-		
86	OHX	5	3948	-	0,6,6	-	-	-		
86	OHX	1	4068	-	0,6,6	-	-	-		
86	OHX	1	3994	-	0,6,6	-	-	-		
86	OHX	8	228	-	0,6,6	-	-	-		
86	OHX	2	2107	-	0,6,6	-	-	-		
86	OHX	2	2003	-	0,6,6	-	-	-		
86	OHX	1	3777	-	0,6,6	-	-	-		
86	OHX	1	3989	-	0,6,6	-	-	-		
86	OHX	6	2078	-	0,6,6	-	-	-		
86	OHX	5	3991	-	0,6,6	-	-	-		
86	OHX	5	4066	-	0,6,6	-	-	-		
86	OHX	5	3899	-	0,6,6	-	-	-		
86	OHX	5	4120	-	0,6,6	-	-	-		
86	OHX	5	3997	-	0,6,6	-	-	-		
86	OHX	1	3907	-	0,6,6	-	-	-		
86	OHX	5	3868	-	0,6,6	-	-	-		
86	OHX	5	3987	-	0,6,6	-	-	-		
86	OHX	2	1997	-	0,6,6	-	-	-		
86	OHX	5	4152	-	0,6,6	-	-	-		
86	OHX	1	3944	-	0,6,6	-	-	-		
86	OHX	1	4087	-	0,6,6	-	-	-		
86	OHX	c3	201	-	0,6,6	-	-	-		
86	OHX	2	2120	-	0,6,6	-	-	-		
86	OHX	2	2152	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	1	4053	-	0,6,6	-	-	-		
86	OHX	6	2066	-	0,6,6	-	-	-		
86	OHX	1	3778	-	0,6,6	-	-	-		
86	OHX	6	2141	-	0,6,6	-	-	-		
86	OHX	1	3909	-	0,6,6	-	-	-		
86	OHX	C3	201	-	0,6,6	-	-	-		
86	OHX	5	4074	-	0,6,6	-	-	-		
86	OHX	5	4165	-	0,6,6	-	-	-		
86	OHX	1	3771	-	0,6,6	-	-	-		
86	OHX	6	2118	-	0,6,6	-	-	-		
86	OHX	5	3880	-	0,6,6	-	-	-		
86	OHX	5	3907	-	0,6,6	-	-	-		
86	OHX	m0	302	-	0,6,6	-	-	-		
86	OHX	1	3941	-	0,6,6	-	-	-		
86	OHX	5	3863	-	0,6,6	-	-	-		
86	OHX	5	4083	-	0,6,6	-	-	-		
86	OHX	1	4094	-	0,6,6	-	-	-		
86	OHX	4	224	-	0,6,6	-	-	-		
86	OHX	6	2070	-	0,6,6	-	-	-		
86	OHX	1	4034	-	0,6,6	-	-	-		
86	OHX	1	4036	-	0,6,6	-	-	-		
86	OHX	1	3854	-	0,6,6	-	-	-		
86	OHX	6	2116	-	0,6,6	-	-	-		
86	OHX	1	3831	-	0,6,6	-	-	-		
86	OHX	6	2177	-	0,6,6	-	-	-		
86	OHX	5	3945	-	0,6,6	-	-	-		
86	OHX	1	3903	-	0,6,6	-	-	-		
86	OHX	5	4009	-	0,6,6	-	-	-		
86	OHX	5	4138	-	0,6,6	-	-	-		
86	OHX	5	4171	-	0,6,6	-	-	-		
86	OHX	1	3824	-	0,6,6	-	-	-		
86	OHX	3	218	-	0,6,6	-	-	-		
86	OHX	1	3877	-	0,6,6	-	-	-		
86	OHX	1	4063	-	0,6,6	-	-	-		
86	OHX	1	3821	-	0,6,6	-	-	-		
86	OHX	6	2108	-	0,6,6	-	-	-		
86	OHX	5	3930	-	0,6,6	-	-	-		
86	OHX	6	2148	-	0,6,6	-	-	-		
86	OHX	1	3897	-	0,6,6	-	-	-		
86	OHX	1	3844	-	0,6,6	-	-	-		
86	OHX	1	3900	-	0,6,6	-	-	-		
86	OHX	1	4014	-	0,6,6	-	-	-		
86	OHX	2	2019	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	4062	-	0,6,6	-	-	-		
86	OHX	6	2123	-	0,6,6	-	-	-		
86	OHX	5	4053	-	0,6,6	-	-	-		
86	OHX	1	4076	-	0,6,6	-	-	-		
86	OHX	5	4150	-	0,6,6	-	-	-		
86	OHX	5	3938	-	0,6,6	-	-	-		
86	OHX	2	2065	-	0,6,6	-	-	-		
86	OHX	1	3851	-	0,6,6	-	-	-		
86	OHX	2	2126	-	0,6,6	-	-	-		
86	OHX	1	3969	-	0,6,6	-	-	-		
86	OHX	1	4102	-	0,6,6	-	-	-		
86	OHX	6	2060	-	0,6,6	-	-	-		
86	OHX	5	3896	-	0,6,6	-	-	-		
86	OHX	2	2140	-	0,6,6	-	-	-		
86	OHX	1	3963	-	0,6,6	-	-	-		
86	OHX	6	2183	-	0,6,6	-	-	-		
86	OHX	6	2017	-	0,6,6	-	-	-		
86	OHX	2	2039	-	0,6,6	-	-	-		
86	OHX	2	2055	-	0,6,6	-	-	-		
86	OHX	2	2106	-	0,6,6	-	-	-		
86	OHX	1	3799	-	0,6,6	-	-	-		
86	OHX	5	4096	-	0,6,6	-	-	-		
86	OHX	3	210	-	0,6,6	-	-	-		
88	SPS	1	4113	85	20,23,23	3.43	11 (55%)	18,30,30	3.22	7 (38%)
86	OHX	1	3983	-	0,6,6	-	-	-		
86	OHX	1	3972	-	0,6,6	-	-	-		
86	OHX	5	3854	-	0,6,6	-	-	-		
86	OHX	o7	502	-	0,6,6	-	-	-		
86	OHX	2	2035	-	0,6,6	-	-	-		
86	OHX	4	232	-	0,6,6	-	-	-		
86	OHX	5	3881	-	0,6,6	-	-	-		
86	OHX	6	2151	-	0,6,6	-	-	-		
86	OHX	5	3982	-	0,6,6	-	-	-		
86	OHX	1	3986	-	0,6,6	-	-	-		
86	OHX	q2	203	-	0,6,6	-	-	-		
86	OHX	1	3893	-	0,6,6	-	-	-		
86	OHX	6	2041	-	0,6,6	-	-	-		
86	OHX	5	4030	-	0,6,6	-	-	-		
86	OHX	6	2044	-	0,6,6	-	-	-		
86	OHX	6	2015	-	0,6,6	-	-	-		
86	OHX	6	2092	-	0,6,6	-	-	-		
86	OHX	6	2097	-	0,6,6	-	-	-		
86	OHX	5	3911	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	4038	-	0,6,6	-	-	-		
86	OHX	6	2062	-	0,6,6	-	-	-		
86	OHX	8	229	-	0,6,6	-	-	-		
86	OHX	3	214	-	0,6,6	-	-	-		
86	OHX	o3	202	-	0,6,6	-	-	-		
86	OHX	L5	301	-	0,6,6	-	-	-		
86	OHX	5	4142	-	0,6,6	-	-	-		
86	OHX	5	4078	-	0,6,6	-	-	-		
86	OHX	8	216	-	0,6,6	-	-	-		
86	OHX	1	3818	-	0,6,6	-	-	-		
86	OHX	1	3795	-	0,6,6	-	-	-		
86	OHX	2	2063	-	0,6,6	-	-	-		
86	OHX	5	3908	-	0,6,6	-	-	-		
86	OHX	8	218	-	0,6,6	-	-	-		
86	OHX	5	3973	-	0,6,6	-	-	-		
86	OHX	1	4030	-	0,6,6	-	-	-		
86	OHX	6	2080	-	0,6,6	-	-	-		
86	OHX	1	3793	-	0,6,6	-	-	-		
86	OHX	1	3914	-	0,6,6	-	-	-		
86	OHX	6	2155	-	0,6,6	-	-	-		
86	OHX	6	2122	-	0,6,6	-	-	-		
86	OHX	5	3909	-	0,6,6	-	-	-		
86	OHX	1	3917	-	0,6,6	-	-	-		
86	OHX	6	2130	-	0,6,6	-	-	-		
86	OHX	5	4148	-	0,6,6	-	-	-		
86	OHX	8	222	-	0,6,6	-	-	-		
86	OHX	6	2051	-	0,6,6	-	-	-		
86	OHX	5	4143	-	0,6,6	-	-	-		
86	OHX	1	4090	-	0,6,6	-	-	-		
86	OHX	1	3801	-	0,6,6	-	-	-		
86	OHX	1	3776	-	0,6,6	-	-	-		
86	OHX	1	3904	-	0,6,6	-	-	-		
86	OHX	6	2149	-	0,6,6	-	-	-		
86	OHX	1	3871	-	0,6,6	-	-	-		
86	OHX	1	3968	-	0,6,6	-	-	-		
86	OHX	5	4089	-	0,6,6	-	-	-		
86	OHX	5	3957	-	0,6,6	-	-	-		
86	OHX	1	3872	-	0,6,6	-	-	-		
86	OHX	6	2013	-	0,6,6	-	-	-		
86	OHX	2	2073	-	0,6,6	-	-	-		
86	OHX	1	3901	-	0,6,6	-	-	-		
86	OHX	1	3949	-	0,6,6	-	-	-		
86	OHX	5	3862	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
86	OHX	m5	306	-	0,6,6	-	-	-		
86	OHX	1	3853	-	0,6,6	-	-	-		
86	OHX	1	3842	-	0,6,6	-	-	-		
86	OHX	5	3857	-	0,6,6	-	-	-		
86	OHX	1	3786	-	0,6,6	-	-	-		
86	OHX	1	3918	-	0,6,6	-	-	-		
86	OHX	5	4021	-	0,6,6	-	-	-		
86	OHX	M6	203	-	0,6,6	-	-	-		
86	OHX	5	4034	-	0,6,6	-	-	-		
86	OHX	O4	202	-	0,6,6	-	-	-		
86	OHX	5	3870	-	0,6,6	-	-	-		
86	OHX	1	3839	-	0,6,6	-	-	-		
86	OHX	8	220	-	0,6,6	-	-	-		
86	OHX	1	3988	-	0,6,6	-	-	-		
86	OHX	5	4011	-	0,6,6	-	-	-		
86	OHX	5	4012	-	0,6,6	-	-	-		
86	OHX	1	3961	-	0,6,6	-	-	-		
86	OHX	1	3843	-	0,6,6	-	-	-		
86	OHX	1	4005	-	0,6,6	-	-	-		
86	OHX	6	2117	-	0,6,6	-	-	-		
86	OHX	m4	201	-	0,6,6	-	-	-		
86	OHX	6	2084	-	0,6,6	-	-	-		
86	OHX	6	2029	-	0,6,6	-	-	-		
86	OHX	O9	101	-	0,6,6	-	-	-		
86	OHX	6	2112	-	0,6,6	-	-	-		
86	OHX	1	3848	-	0,6,6	-	-	-		
86	OHX	1	3890	-	0,6,6	-	-	-		
86	OHX	5	3999	-	0,6,6	-	-	-		
86	OHX	5	3900	-	0,6,6	-	-	-		
86	OHX	5	3950	-	0,6,6	-	-	-		
86	OHX	5	4007	-	0,6,6	-	-	-		
86	OHX	5	4085	-	0,6,6	-	-	-		
86	OHX	1	3997	-	0,6,6	-	-	-		
86	OHX	2	2092	-	0,6,6	-	-	-		
86	OHX	1	3964	-	0,6,6	-	-	-		
86	OHX	5	4047	-	0,6,6	-	-	-		
86	OHX	l3	404	-	0,6,6	-	-	-		
86	OHX	2	2088	-	0,6,6	-	-	-		
86	OHX	m9	201	-	0,6,6	-	-	-		
86	OHX	1	3838	-	0,6,6	-	-	-		
86	OHX	5	3904	-	0,6,6	-	-	-		
86	OHX	6	2023	-	0,6,6	-	-	-		
86	OHX	1	4072	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
89	PRO	1	4114	89	5,7,8	0.57	0	7,8,10	1.06	0
86	OHX	3	213	-	0,6,6	-	-	-		
86	OHX	1	4049	-	0,6,6	-	-	-		
86	OHX	1	3879	-	0,6,6	-	-	-		
86	OHX	2	2041	-	0,6,6	-	-	-		
86	OHX	5	4010	-	0,6,6	-	-	-		
86	OHX	5	3931	-	0,6,6	-	-	-		
86	OHX	5	4054	-	0,6,6	-	-	-		
86	OHX	2	2018	-	0,6,6	-	-	-		
86	OHX	5	4140	-	0,6,6	-	-	-		
86	OHX	1	3889	-	0,6,6	-	-	-		
86	OHX	5	3935	-	0,6,6	-	-	-		
86	OHX	3	219	-	0,6,6	-	-	-		
86	OHX	2	2084	-	0,6,6	-	-	-		
86	OHX	2	2048	-	0,6,6	-	-	-		
86	OHX	s1	302	-	0,6,6	-	-	-		
86	OHX	6	2119	-	0,6,6	-	-	-		
86	OHX	5	4060	-	0,6,6	-	-	-		
86	OHX	2	1996	-	0,6,6	-	-	-		
86	OHX	1	3873	-	0,6,6	-	-	-		
86	OHX	5	3892	-	0,6,6	-	-	-		
86	OHX	6	2153	-	0,6,6	-	-	-		
86	OHX	S8	301	-	0,6,6	-	-	-		
86	OHX	1	3789	-	0,6,6	-	-	-		
86	OHX	1	4104	-	0,6,6	-	-	-		
86	OHX	5	4145	-	0,6,6	-	-	-		
86	OHX	2	2148	-	0,6,6	-	-	-		
86	OHX	6	2161	-	0,6,6	-	-	-		
86	OHX	1	3920	-	0,6,6	-	-	-		
86	OHX	1	4079	-	0,6,6	-	-	-		
86	OHX	6	2085	-	0,6,6	-	-	-		
86	OHX	5	4037	-	0,6,6	-	-	-		
86	OHX	L3	402	-	0,6,6	-	-	-		
86	OHX	2	2087	-	0,6,6	-	-	-		
86	OHX	5	4095	-	0,6,6	-	-	-		
86	OHX	5	3834	-	0,6,6	-	-	-		
86	OHX	1	4022	-	0,6,6	-	-	-		
86	OHX	2	2060	-	0,6,6	-	-	-		
86	OHX	5	4116	-	0,6,6	-	-	-		
86	OHX	2	2081	-	0,6,6	-	-	-		
86	OHX	1	4101	-	0,6,6	-	-	-		
86	OHX	5	3958	-	0,6,6	-	-	-		
86	OHX	O7	104	73	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	2	2103	-	0,6,6	-	-	-		
86	OHX	1	3922	-	0,6,6	-	-	-		
86	OHX	N9	101	-	0,6,6	-	-	-		
86	OHX	5	3917	-	0,6,6	-	-	-		
86	OHX	6	2094	-	0,6,6	-	-	-		
86	OHX	5	3984	-	0,6,6	-	-	-		
86	OHX	6	2099	-	0,6,6	-	-	-		
86	OHX	6	2139	-	0,6,6	-	-	-		
86	OHX	5	3951	-	0,6,6	-	-	-		
86	OHX	s8	303	-	0,6,6	-	-	-		
86	OHX	2	2122	-	0,6,6	-	-	-		
86	OHX	1	3780	-	0,6,6	-	-	-		
86	OHX	1	4042	-	0,6,6	-	-	-		
86	OHX	1	3868	-	0,6,6	-	-	-		
86	OHX	1	3806	-	0,6,6	-	-	-		
86	OHX	5	4093	-	0,6,6	-	-	-		
86	OHX	1	3765	-	0,6,6	-	-	-		
86	OHX	s9	201	-	0,6,6	-	-	-		
86	OHX	5	3977	-	0,6,6	-	-	-		
86	OHX	2	1994	-	0,6,6	-	-	-		
86	OHX	5	4137	-	0,6,6	-	-	-		
86	OHX	1	3761	-	0,6,6	-	-	-		
86	OHX	2	2015	-	0,6,6	-	-	-		
86	OHX	1	4070	-	0,6,6	-	-	-		
86	OHX	6	2068	-	0,6,6	-	-	-		
86	OHX	5	3820	-	0,6,6	-	-	-		
86	OHX	6	2101	-	0,6,6	-	-	-		
86	OHX	2	2033	-	0,6,6	-	-	-		
86	OHX	2	2083	-	0,6,6	-	-	-		
86	OHX	1	3781	-	0,6,6	-	-	-		
86	OHX	6	2087	-	0,6,6	-	-	-		
86	OHX	1	3770	-	0,6,6	-	-	-		
86	OHX	1	3896	-	0,6,6	-	-	-		
86	OHX	1	3916	-	0,6,6	-	-	-		
86	OHX	N8	204	-	0,6,6	-	-	-		
86	OHX	5	4167	-	0,6,6	-	-	-		
86	OHX	2	2113	-	0,6,6	-	-	-		
86	OHX	5	3925	-	0,6,6	-	-	-		
86	OHX	5	3852	-	0,6,6	-	-	-		
86	OHX	5	4073	-	0,6,6	-	-	-		
86	OHX	2	2090	-	0,6,6	-	-	-		
86	OHX	1	4096	-	0,6,6	-	-	-		
86	OHX	m5	304	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	5	3921	-	0,6,6	-	-	-		
86	OHX	1	4071	36	0,6,6	-	-	-		
86	OHX	5	4112	-	0,6,6	-	-	-		
86	OHX	l4	402	-	0,6,6	-	-	-		
86	OHX	1	4106	-	0,6,6	-	-	-		
86	OHX	2	2025	-	0,6,6	-	-	-		
86	OHX	1	3812	-	0,6,6	-	-	-		
86	OHX	5	3894	-	0,6,6	-	-	-		
86	OHX	5	3901	-	0,6,6	-	-	-		
86	OHX	5	3849	-	0,6,6	-	-	-		
86	OHX	1	3932	-	0,6,6	-	-	-		
86	OHX	5	3853	-	0,6,6	-	-	-		
86	OHX	1	3908	-	0,6,6	-	-	-		
86	OHX	5	3976	-	0,6,6	-	-	-		
86	OHX	M8	201	-	0,6,6	-	-	-		
86	OHX	5	3876	-	0,6,6	-	-	-		
86	OHX	2	2138	-	0,6,6	-	-	-		
86	OHX	2	2144	-	0,6,6	-	-	-		
86	OHX	4	223	-	0,6,6	-	-	-		
86	OHX	1	3911	-	0,6,6	-	-	-		
86	OHX	L4	401	-	0,6,6	-	-	-		
86	OHX	5	4058	-	0,6,6	-	-	-		
86	OHX	5	3970	-	0,6,6	-	-	-		
86	OHX	2	2121	-	0,6,6	-	-	-		
86	OHX	6	2043	-	0,6,6	-	-	-		
86	OHX	s4	602	-	0,6,6	-	-	-		
86	OHX	1	3894	-	0,6,6	-	-	-		
86	OHX	2	2134	-	0,6,6	-	-	-		
86	OHX	1	3974	-	0,6,6	-	-	-		
86	OHX	2	2143	-	0,6,6	-	-	-		
86	OHX	5	3933	-	0,6,6	-	-	-		
86	OHX	6	2162	-	0,6,6	-	-	-		
86	OHX	5	3884	-	0,6,6	-	-	-		
86	OHX	1	4046	-	0,6,6	-	-	-		
86	OHX	6	2022	-	0,6,6	-	-	-		
86	OHX	5	4121	-	0,6,6	-	-	-		
86	OHX	1	3970	-	0,6,6	-	-	-		
86	OHX	2	2027	-	0,6,6	-	-	-		
86	OHX	2	2010	-	0,6,6	-	-	-		
86	OHX	5	4084	36	0,6,6	-	-	-		
86	OHX	5	3847	-	0,6,6	-	-	-		
86	OHX	5	3968	-	0,6,6	-	-	-		
86	OHX	4	233	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	1	4066	-	0,6,6	-	-	-		
86	OHX	5	4097	-	0,6,6	-	-	-		
86	OHX	2	2142	-	0,6,6	-	-	-		
86	OHX	1	4004	-	0,6,6	-	-	-		
86	OHX	2	2098	-	0,6,6	-	-	-		
86	OHX	1	4091	-	0,6,6	-	-	-		
86	OHX	5	4032	-	0,6,6	-	-	-		
86	OHX	6	2158	-	0,6,6	-	-	-		
86	OHX	5	3928	-	0,6,6	-	-	-		
86	OHX	1	3862	-	0,6,6	-	-	-		
86	OHX	6	2050	-	0,6,6	-	-	-		
86	OHX	5	4057	-	0,6,6	-	-	-		
86	OHX	2	2062	-	0,6,6	-	-	-		
86	OHX	2	2036	-	0,6,6	-	-	-		
86	OHX	1	3847	-	0,6,6	-	-	-		
86	OHX	6	2144	-	0,6,6	-	-	-		
86	OHX	5	4001	-	0,6,6	-	-	-		
86	OHX	5	3882	-	0,6,6	-	-	-		
86	OHX	1	3800	-	0,6,6	-	-	-		
86	OHX	6	2137	-	0,6,6	-	-	-		
86	OHX	5	4048	-	0,6,6	-	-	-		
86	OHX	1	3794	-	0,6,6	-	-	-		
86	OHX	1	3954	-	0,6,6	-	-	-		
86	OHX	1	4012	-	0,6,6	-	-	-		
86	OHX	6	2018	-	0,6,6	-	-	-		
86	OHX	L3	404	-	0,6,6	-	-	-		
86	OHX	5	4164	-	0,6,6	-	-	-		
86	OHX	5	3889	-	0,6,6	-	-	-		
86	OHX	1	3927	-	0,6,6	-	-	-		
86	OHX	6	2016	-	0,6,6	-	-	-		
86	OHX	2	2026	-	0,6,6	-	-	-		
86	OHX	1	4017	-	0,6,6	-	-	-		
86	OHX	4	229	-	0,6,6	-	-	-		
86	OHX	6	2082	-	0,6,6	-	-	-		
86	OHX	1	3930	-	0,6,6	-	-	-		
86	OHX	5	3915	-	0,6,6	-	-	-		
86	OHX	5	4125	-	0,6,6	-	-	-		
86	OHX	5	3874	-	0,6,6	-	-	-		
86	OHX	1	3867	-	0,6,6	-	-	-		
86	OHX	5	3885	-	0,6,6	-	-	-		
86	OHX	5	3971	-	0,6,6	-	-	-		
86	OHX	2	2096	-	0,6,6	-	-	-		
86	OHX	1	4069	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
86	OHX	c5	201	-	0,6,6	-	-	-		
86	OHX	5	4159	-	0,6,6	-	-	-		
86	OHX	1	4010	-	0,6,6	-	-	-		
86	OHX	8	227	-	0,6,6	-	-	-		
86	OHX	7	214	-	0,6,6	-	-	-		
86	OHX	6	2061	-	0,6,6	-	-	-		
86	OHX	1	4045	-	0,6,6	-	-	-		
86	OHX	6	2071	-	0,6,6	-	-	-		
86	OHX	1	4008	-	0,6,6	-	-	-		
86	OHX	1	4027	-	0,6,6	-	-	-		
86	OHX	5	4039	-	0,6,6	-	-	-		
86	OHX	6	2145	-	0,6,6	-	-	-		
86	OHX	1	4047	-	0,6,6	-	-	-		
86	OHX	5	3835	-	0,6,6	-	-	-		
86	OHX	5	4003	-	0,6,6	-	-	-		
86	OHX	5	4065	-	0,6,6	-	-	-		
86	OHX	5	4124	-	0,6,6	-	-	-		
86	OHX	5	4109	-	0,6,6	-	-	-		
86	OHX	l3	403	-	0,6,6	-	-	-		
86	OHX	6	2164	-	0,6,6	-	-	-		
86	OHX	5	3895	-	0,6,6	-	-	-		
86	OHX	5	3879	-	0,6,6	-	-	-		
86	OHX	5	3902	-	0,6,6	-	-	-		
86	OHX	5	4118	-	0,6,6	-	-	-		
86	OHX	6	2088	-	0,6,6	-	-	-		
86	OHX	1	4016	-	0,6,6	-	-	-		
86	OHX	1	3925	-	0,6,6	-	-	-		
86	OHX	M5	304	-	0,6,6	-	-	-		
86	OHX	2	2100	-	0,6,6	-	-	-		
86	OHX	5	3978	-	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
89	PRO	C	101	89,84	-	0/0/9/11	0/1/1/1
89	PRO	5	4173	89	-	0/0/9/11	0/1/1/1
88	SPS	5	3403	-	-	2/15/18/18	0/1/1/1
89	PRO	B	101	89,84	-	0/0/9/11	0/1/1/1
89	PRO	1	4114	89	-	0/0/9/11	0/1/1/1

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
88	SPS	1	4113	85	-	3/15/18/18	0/1/1/1

The worst 5 of 21 bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
88	1	4113	SPS	C9-C10	-8.24	1.31	1.48
88	5	3403	SPS	C9-C10	-8.07	1.31	1.48
88	5	3403	SPS	C9-C8	7.40	1.52	1.33
88	1	4113	SPS	C9-C8	7.23	1.51	1.33
88	5	3403	SPS	O13-C13	-5.41	1.19	1.42

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

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
88	1	4113	SPS	C3-N2-C1	8.00	121.90	115.14
88	1	4113	SPS	C6-C1-N2	-7.95	118.86	124.40
88	5	3403	SPS	C3-N2-C1	7.08	121.12	115.14
88	5	3403	SPS	C6-C1-N2	-6.34	119.98	124.40
88	5	3403	SPS	C12-N11-C10	-4.66	116.01	122.57

There are no chirality outliers.

All (5) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
88	1	4113	SPS	N11-C12-C13-O13
88	1	4113	SPS	C14-C12-C13-O13
88	1	4113	SPS	N11-C12-C14-S15
88	5	3403	SPS	N11-C12-C14-S15
88	5	3403	SPS	C5-C6-C8-C9

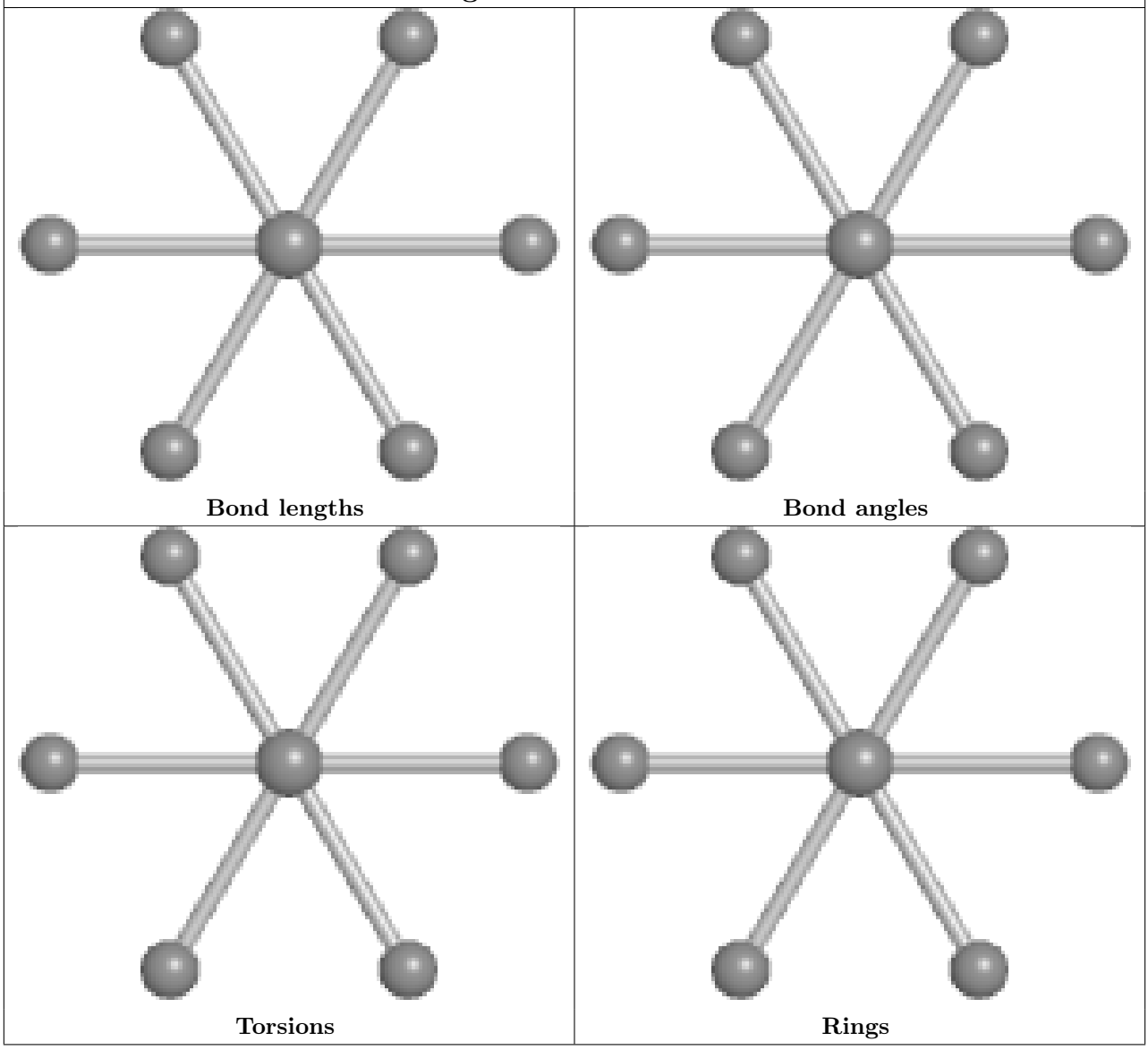
There are no ring outliers.

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.

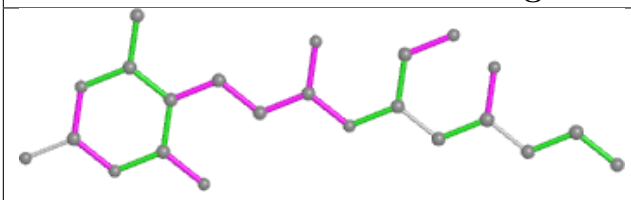
Ligand OHX 5 4166



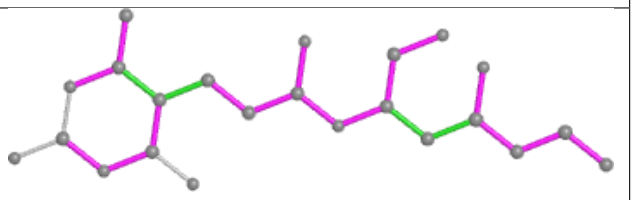
Bond lengths | **Bond angles**

Torsions | **Rings**

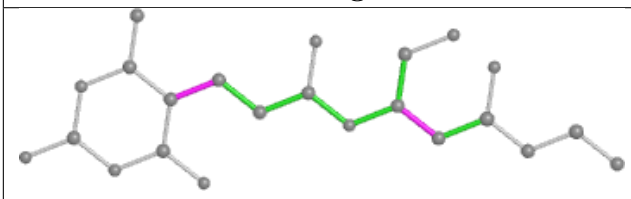
Ligand SPS 5 3403



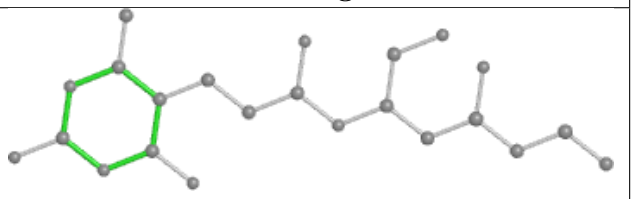
Bond lengths



Bond angles

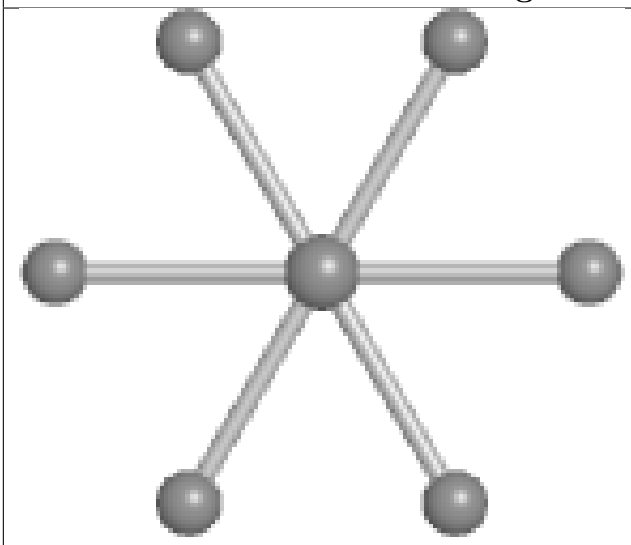


Torsions

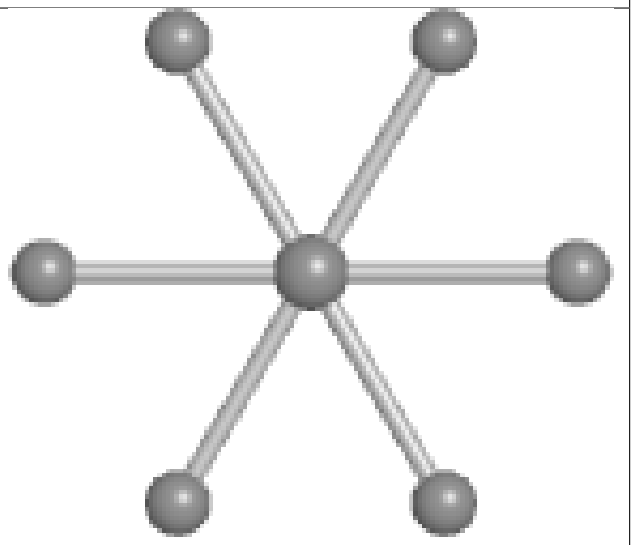


Rings

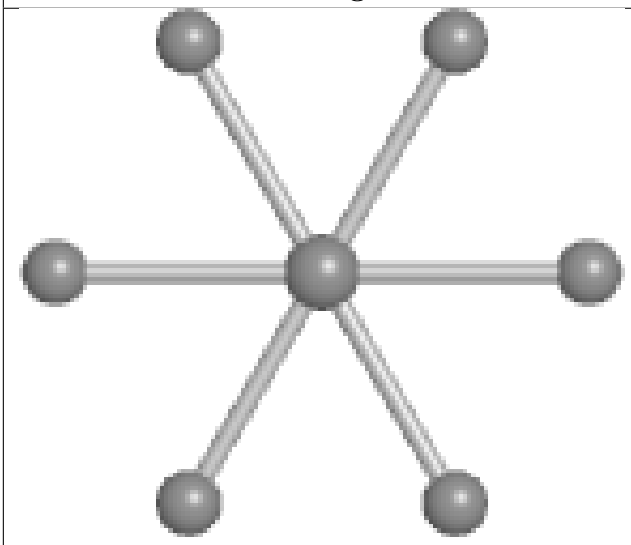
Ligand OHX 5 4153



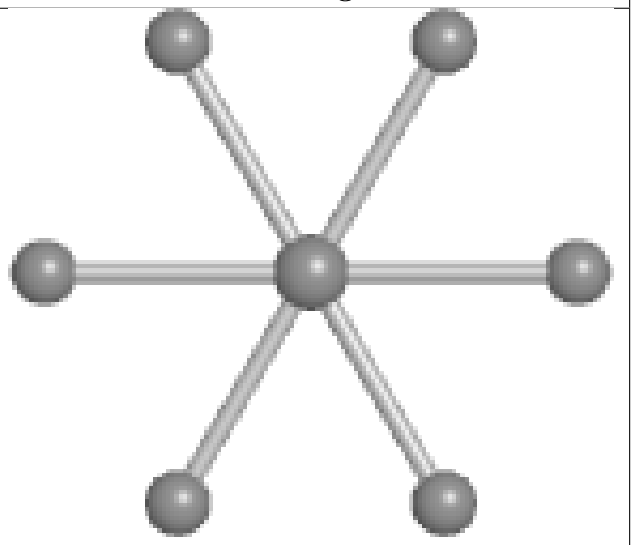
Bond lengths



Bond angles

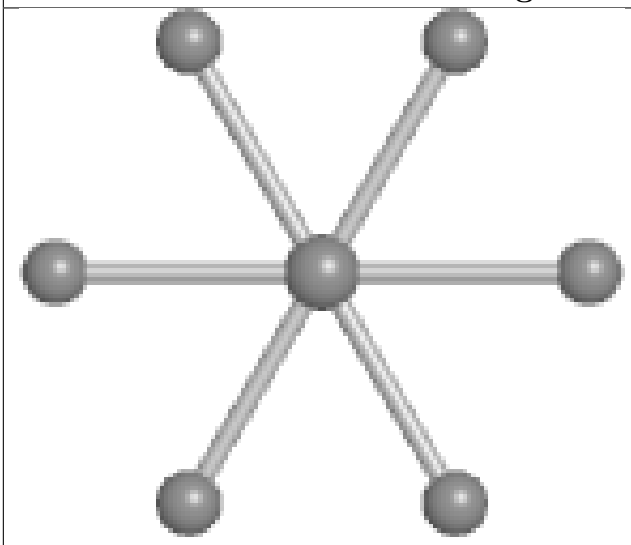


Torsions

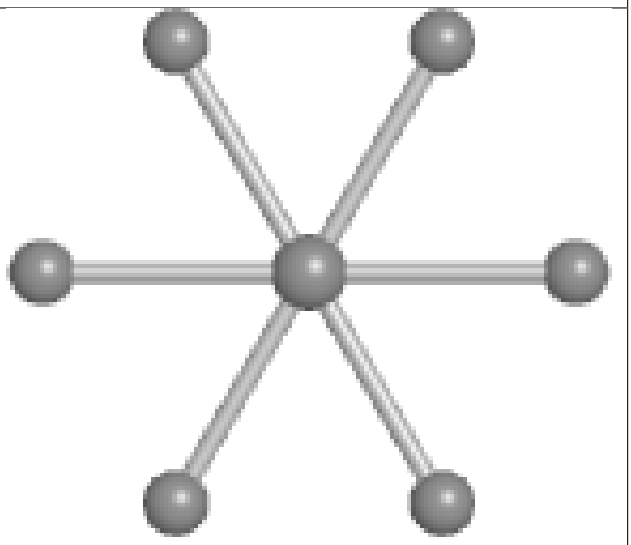


Rings

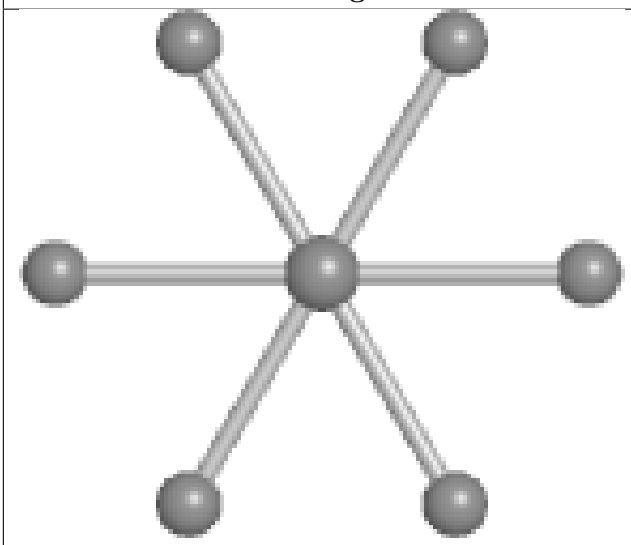
Ligand OHX 5 4062



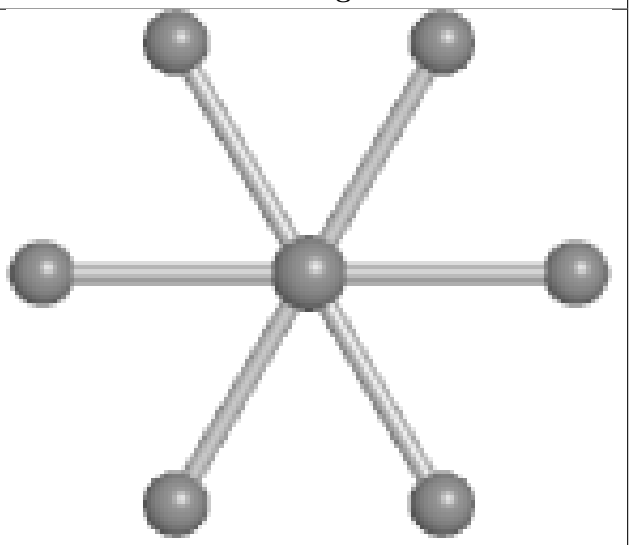
Bond lengths



Bond angles

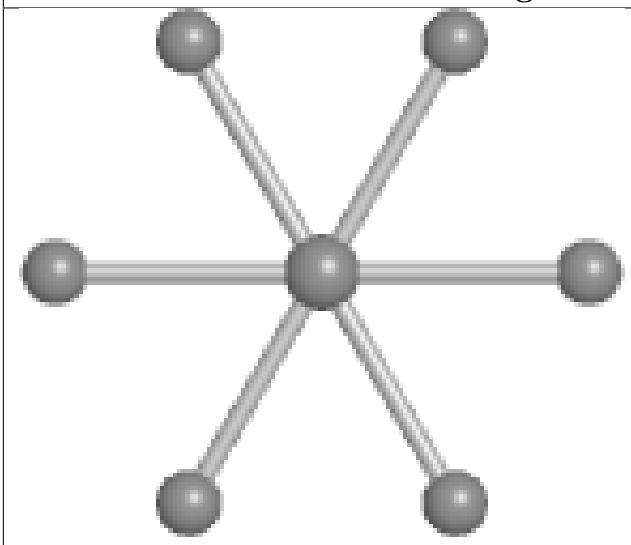


Torsions

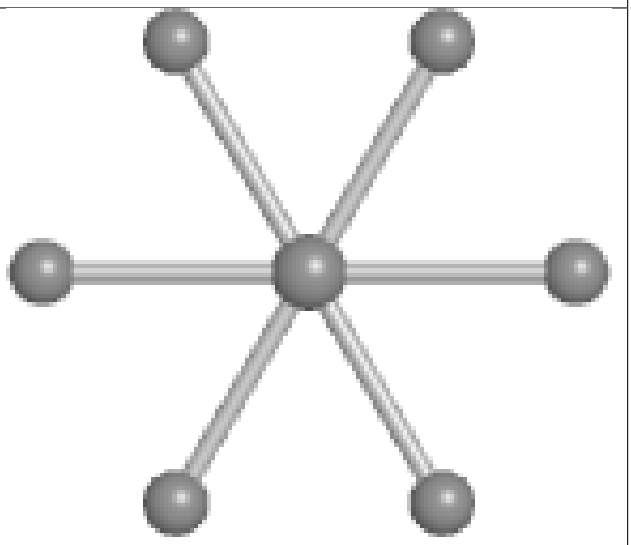


Rings

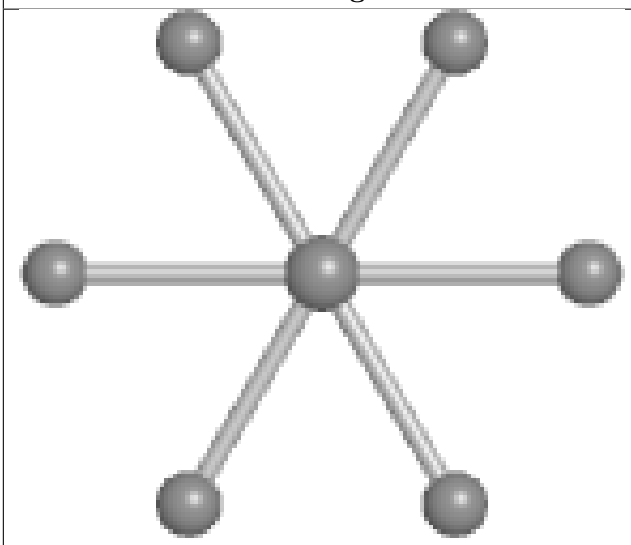
Ligand OHX 6 2183



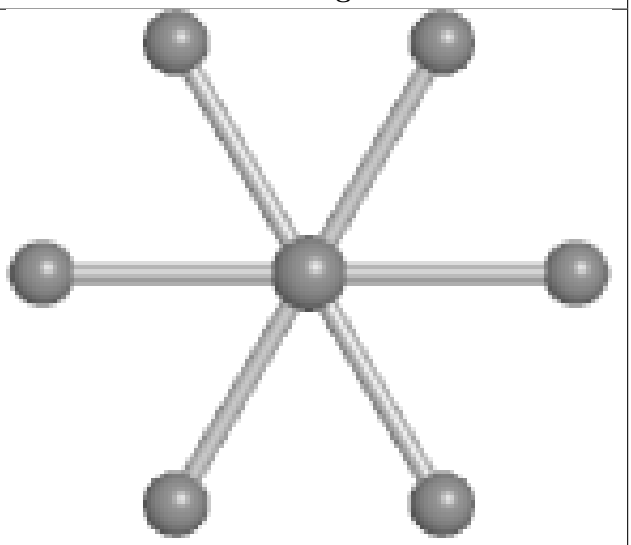
Bond lengths



Bond angles

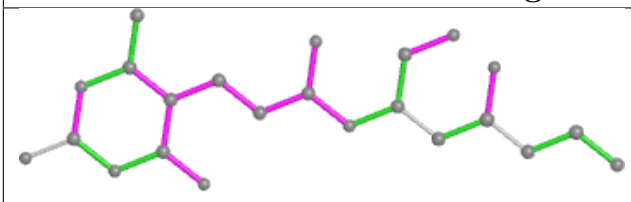


Torsions

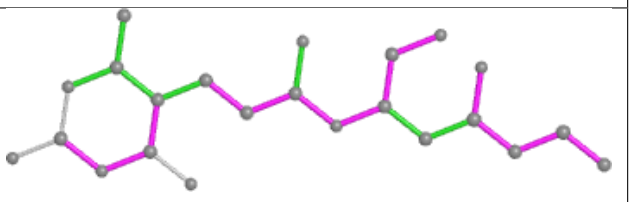


Rings

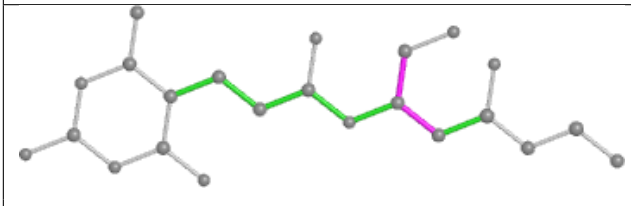
Ligand SPS 1 4113



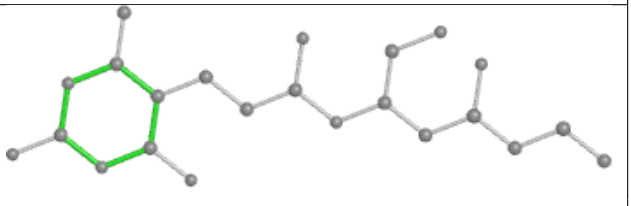
Bond lengths



Bond angles



Torsions



Rings

5.7 Other polymers (i)

There are no such residues in this entry.

5.8 Polymer linkage issues (i)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
1	2	2
80	m2	2

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	2	1716:C	O3'	1717:G	P	5.10
1	m2	23:LEU	C	28:ARG	N	3.71
1	m2	52:LYS	C	54:LYS	N	3.25
1	2	1685:G	O3'	1686:C	P	2.98

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	1781/1800 (98%)	0.35	83 (4%) 31 31	58, 100, 190, 245	0
1	6	1795/1800 (99%)	0.15	46 (2%) 56 53	41, 84, 172, 231	0
2	S0	206/251 (82%)	1.29	52 (25%) 0 0	99, 112, 122, 125	0
2	s0	206/251 (82%)	0.46	14 (6%) 17 19	78, 93, 107, 115	0
3	S1	214/254 (84%)	1.32	59 (27%) 0 0	114, 152, 175, 179	0
3	s1	216/254 (85%)	0.61	25 (11%) 4 6	80, 93, 110, 126	0
4	S2	217/253 (85%)	0.31	8 (3%) 41 40	79, 95, 109, 118	0
4	s2	217/253 (85%)	0.49	20 (9%) 9 11	63, 79, 90, 99	0
5	S3	223/239 (93%)	0.95	38 (17%) 1 2	90, 103, 122, 135	0
5	s3	223/239 (93%)	1.10	50 (22%) 0 0	83, 108, 131, 139	0
6	S4	260/260 (100%)	1.86	109 (41%) 0 0	78, 101, 111, 133	0
6	s4	260/260 (100%)	1.19	60 (23%) 0 0	56, 79, 94, 113	0
7	S5	206/224 (91%)	2.38	108 (52%) 0 0	107, 122, 134, 144	0
7	s5	206/224 (91%)	1.69	82 (39%) 0 0	88, 106, 123, 134	0
8	S6	226/236 (95%)	0.75	27 (11%) 4 6	77, 113, 131, 142	0
8	s6	218/236 (92%)	0.50	23 (10%) 6 8	56, 85, 110, 123	0
9	S7	184/189 (97%)	0.92	33 (17%) 1 2	96, 127, 147, 152	0
9	s7	186/189 (98%)	0.37	7 (3%) 40 39	70, 103, 132, 139	0
10	S8	188/200 (94%)	1.21	45 (23%) 0 0	68, 88, 122, 139	0
10	s8	188/200 (94%)	0.71	15 (7%) 12 14	52, 69, 110, 129	0
11	S9	185/196 (94%)	1.72	73 (39%) 0 0	91, 107, 137, 157	0
11	s9	185/196 (94%)	0.87	21 (11%) 5 7	68, 87, 125, 146	0
12	C0	96/105 (91%)	1.54	29 (30%) 0 0	96, 121, 141, 151	0
12	c0	96/105 (91%)	1.86	37 (38%) 0 0	105, 136, 149, 150	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å^2)	Q<0.9
13	C1	155/155 (100%)	1.30	36 (23%)	0	0	71, 84, 118, 130	0
13	c1	146/155 (94%)	0.74	16 (10%)	5	7	54, 66, 94, 115	0
14	C2	124/142 (87%)	1.15	25 (20%)	1	1	149, 161, 174, 180	0
14	c2	124/142 (87%)	2.34	68 (54%)	0	0	180, 196, 211, 215	0
15	C3	150/150 (100%)	0.99	29 (19%)	1	1	79, 94, 109, 115	0
15	c3	150/150 (100%)	0.25	6 (4%)	38	36	62, 76, 93, 96	0
16	C4	127/136 (93%)	1.41	44 (34%)	0	0	83, 146, 158, 162	0
16	c4	128/136 (94%)	0.81	16 (12%)	3	6	64, 96, 104, 109	0
17	C5	124/141 (87%)	0.85	13 (10%)	6	8	87, 103, 120, 130	0
17	c5	135/141 (95%)	1.18	33 (24%)	0	0	72, 107, 122, 123	0
18	C6	141/142 (99%)	2.33	75 (53%)	0	0	92, 110, 116, 118	0
18	c6	142/142 (100%)	1.74	49 (34%)	0	0	82, 104, 118, 136	0
19	C7	120/136 (88%)	1.04	22 (18%)	1	2	95, 110, 129, 131	0
19	c7	117/136 (86%)	0.41	12 (10%)	6	9	85, 102, 114, 122	0
20	C8	145/145 (100%)	0.93	25 (17%)	1	2	85, 109, 135, 142	0
20	c8	145/145 (100%)	1.03	26 (17%)	1	2	83, 101, 117, 124	0
21	C9	143/143 (100%)	2.00	71 (49%)	0	0	95, 110, 125, 133	0
21	c9	143/143 (100%)	0.93	22 (15%)	2	3	82, 98, 115, 123	0
22	D0	107/120 (89%)	0.93	19 (17%)	1	2	86, 114, 136, 138	0
22	d0	110/120 (91%)	1.13	27 (24%)	0	0	85, 115, 144, 149	0
23	D1	87/87 (100%)	0.75	12 (13%)	2	4	96, 103, 117, 122	0
23	d1	87/87 (100%)	-0.06	0	100	100	71, 82, 104, 111	0
24	D2	129/129 (100%)	0.84	14 (10%)	5	8	80, 92, 101, 111	0
24	d2	129/129 (100%)	0.28	3 (2%)	60	58	59, 68, 75, 84	0
25	D3	144/144 (100%)	1.44	51 (35%)	0	0	70, 78, 90, 102	0
25	d3	144/144 (100%)	0.79	12 (8%)	11	14	52, 57, 70, 81	0
26	D4	134/134 (100%)	1.55	44 (32%)	0	0	89, 111, 123, 127	0
26	d4	134/134 (100%)	0.51	15 (11%)	5	7	65, 88, 100, 105	0
27	D5	70/107 (65%)	2.26	37 (52%)	0	0	118, 134, 141, 146	0
27	d5	69/107 (64%)	1.88	27 (39%)	0	0	98, 112, 124, 126	0
28	D6	97/97 (100%)	1.49	33 (34%)	0	0	86, 108, 160, 162	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	d6	97/97 (100%)	0.82	12 (12%) 4 6	67, 84, 111, 116	0
29	D7	81/81 (100%)	1.54	29 (35%) 0 0	95, 113, 139, 143	0
29	d7	81/81 (100%)	0.93	15 (18%) 1 2	72, 89, 127, 128	0
30	D8	63/66 (95%)	1.98	28 (44%) 0 0	114, 131, 139, 144	0
30	d8	63/66 (95%)	2.08	27 (42%) 0 0	105, 118, 125, 128	0
31	D9	53/55 (96%)	1.08	10 (18%) 1 2	85, 90, 108, 114	0
31	d9	53/55 (96%)	1.81	23 (43%) 0 0	82, 92, 128, 145	0
32	E0	60/63 (95%)	2.11	31 (51%) 0 0	80, 110, 134, 137	0
32	e0	62/63 (98%)	1.51	17 (27%) 0 0	60, 88, 117, 120	0
33	E1	71/76 (93%)	1.45	21 (29%) 0 0	115, 142, 155, 157	0
33	e1	76/76 (100%)	2.39	37 (48%) 0 0	117, 168, 186, 187	0
34	SR	318/318 (100%)	1.38	83 (26%) 0 0	109, 122, 138, 156	0
34	sR	318/318 (100%)	2.10	152 (47%) 0 0	112, 127, 141, 153	0
35	SM	159/273 (58%)	1.18	43 (27%) 0 0	58, 100, 159, 163	0
35	sM	104/273 (38%)	1.25	25 (24%) 0 0	51, 115, 188, 197	0
36	1	3149/3396 (92%)	0.11	57 (1%) 68 65	33, 58, 136, 238	0
36	5	3150/3396 (92%)	0.09	35 (1%) 80 77	28, 52, 127, 213	0
37	3	121/121 (100%)	-0.05	0 100 100	42, 77, 90, 98	0
37	7	121/121 (100%)	-0.14	0 100 100	33, 55, 66, 75	0
38	4	158/158 (100%)	-0.01	1 (0%) 89 87	42, 63, 102, 146	0
38	8	158/158 (100%)	-0.03	0 100 100	42, 63, 101, 131	0
39	L2	252/253 (99%)	0.47	13 (5%) 27 27	40, 60, 78, 84	0
39	l2	252/253 (99%)	0.26	2 (0%) 86 82	36, 55, 73, 80	0
40	L3	386/386 (100%)	0.20	9 (2%) 60 58	37, 62, 77, 88	0
40	l3	386/386 (100%)	0.14	6 (1%) 72 69	28, 45, 60, 81	0
41	L4	361/361 (100%)	0.11	4 (1%) 80 77	38, 54, 69, 74	0
41	l4	361/361 (100%)	0.05	2 (0%) 89 87	37, 56, 74, 82	0
42	L5	296/296 (100%)	1.31	87 (29%) 0 0	58, 80, 98, 119	0
42	l5	294/296 (99%)	0.45	12 (4%) 37 36	42, 56, 82, 97	0
43	L6	156/175 (89%)	0.52	7 (4%) 33 32	46, 56, 72, 87	0
43	l6	157/175 (89%)	0.48	9 (5%) 23 23	48, 57, 78, 93	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	L7	222/243 (91%)	0.17	1 (0%) 91 89	38, 47, 77, 104	0
44	l7	223/243 (91%)	-0.08	0 100 100	33, 45, 82, 112	0
45	L8	233/255 (91%)	0.86	32 (13%) 3 4	68, 84, 110, 120	0
45	l8	231/255 (90%)	1.06	41 (17%) 1 2	69, 82, 107, 117	0
46	L9	191/191 (100%)	0.46	15 (7%) 12 15	59, 71, 82, 94	0
46	l9	191/191 (100%)	0.12	3 (1%) 72 69	41, 51, 68, 78	0
47	M0	211/220 (95%)	0.51	15 (7%) 16 18	44, 63, 94, 105	0
47	m0	213/220 (96%)	0.27	4 (1%) 66 64	39, 54, 78, 94	0
48	M1	169/173 (97%)	1.19	30 (17%) 1 2	68, 85, 97, 103	0
48	m1	169/173 (97%)	0.33	3 (1%) 68 65	47, 66, 77, 81	0
49	M3	193/198 (97%)	0.45	4 (2%) 63 61	36, 63, 101, 122	0
49	m3	194/198 (97%)	0.52	11 (5%) 23 23	38, 67, 104, 119	0
50	M4	136/137 (99%)	-0.14	0 100 100	50, 59, 72, 83	0
50	m4	137/137 (100%)	-0.19	0 100 100	43, 50, 66, 84	0
51	M5	203/203 (100%)	0.58	16 (7%) 12 15	39, 56, 67, 71	0
51	m5	203/203 (100%)	1.04	39 (19%) 1 1	40, 58, 68, 73	0
52	M6	197/198 (99%)	-0.13	1 (0%) 91 89	25, 32, 46, 49	0
52	m6	197/198 (99%)	-0.14	1 (0%) 91 89	18, 24, 45, 52	0
53	M7	183/183 (100%)	0.72	24 (13%) 3 5	44, 52, 105, 133	0
53	m7	155/183 (84%)	0.05	1 (0%) 89 87	36, 45, 55, 77	0
54	M8	185/185 (100%)	0.23	3 (1%) 72 69	42, 51, 68, 88	0
54	m8	185/185 (100%)	0.37	4 (2%) 62 59	39, 53, 64, 72	0
55	M9	188/188 (100%)	0.83	31 (16%) 1 2	64, 78, 147, 156	0
55	m9	188/188 (100%)	0.26	10 (5%) 26 26	50, 62, 123, 138	0
56	N0	172/172 (100%)	0.41	5 (2%) 51 49	37, 56, 70, 75	0
56	n0	172/172 (100%)	0.02	1 (0%) 89 87	32, 45, 57, 67	0
57	N1	159/159 (100%)	0.13	1 (0%) 89 87	41, 56, 99, 105	0
57	n1	159/159 (100%)	0.09	1 (0%) 89 87	37, 45, 82, 88	0
58	N2	100/120 (83%)	1.33	27 (27%) 0 0	94, 106, 112, 117	0
58	n2	98/120 (81%)	1.09	20 (20%) 1 1	74, 85, 93, 95	0
59	N3	136/136 (100%)	0.17	3 (2%) 62 59	49, 59, 73, 82	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
59	n3	136/136 (100%)	0.11	2 (1%) 73 71	31, 41, 52, 57	0
60	N4	98/155 (63%)	2.01	28 (28%) 0 0	59, 74, 147, 155	0
60	n4	135/155 (87%)	0.75	20 (14%) 2 3	41, 93, 124, 142	0
61	N5	121/141 (85%)	0.83	12 (9%) 7 9	59, 71, 86, 103	0
61	n5	120/141 (85%)	0.60	8 (6%) 17 19	55, 68, 82, 97	0
62	N6	126/126 (100%)	0.57	9 (7%) 16 18	48, 64, 77, 85	0
62	n6	126/126 (100%)	0.09	0 100 100	50, 66, 82, 85	0
63	N7	135/135 (100%)	2.01	66 (48%) 0 0	83, 96, 107, 111	0
63	n7	135/135 (100%)	0.96	23 (17%) 1 2	78, 89, 101, 109	0
64	N8	148/148 (100%)	0.58	11 (7%) 14 17	32, 54, 76, 82	0
64	n8	148/148 (100%)	0.64	13 (8%) 10 12	34, 55, 72, 75	0
65	N9	58/58 (100%)	-0.03	0 100 100	36, 59, 97, 113	0
65	n9	58/58 (100%)	0.00	0 100 100	36, 55, 76, 82	0
66	O0	97/104 (93%)	0.82	14 (14%) 2 3	83, 90, 106, 111	0
66	o0	100/104 (96%)	0.50	8 (8%) 12 14	69, 79, 98, 105	0
67	O1	109/112 (97%)	1.43	32 (29%) 0 0	60, 73, 94, 101	0
67	o1	109/112 (97%)	1.21	18 (16%) 1 2	44, 56, 89, 97	0
68	O2	127/129 (98%)	0.28	3 (2%) 59 56	34, 48, 63, 79	0
68	o2	127/129 (98%)	0.49	3 (2%) 59 56	32, 52, 67, 78	0
69	O3	106/106 (100%)	0.19	0 100 100	39, 46, 70, 82	0
69	o3	106/106 (100%)	0.59	3 (2%) 53 51	36, 44, 71, 82	0
70	O4	112/121 (92%)	1.55	40 (35%) 0 0	57, 74, 110, 117	0
70	o4	112/121 (92%)	0.96	24 (21%) 0 1	50, 66, 101, 108	0
71	O5	119/119 (100%)	0.17	1 (0%) 86 82	56, 73, 80, 83	0
71	o5	119/119 (100%)	0.10	2 (1%) 70 67	58, 71, 86, 96	0
72	O6	99/99 (100%)	0.80	13 (13%) 3 5	59, 70, 100, 111	0
72	o6	99/99 (100%)	0.83	13 (13%) 3 5	62, 72, 91, 110	0
73	O7	87/87 (100%)	0.10	0 100 100	41, 49, 70, 80	0
73	o7	87/87 (100%)	0.07	0 100 100	37, 48, 79, 85	0
74	O8	77/77 (100%)	0.52	3 (3%) 39 38	85, 97, 107, 108	0
74	o8	77/77 (100%)	1.84	32 (41%) 0 0	75, 85, 94, 97	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
75	O9	50/50 (100%)	0.39	0 100 100	51, 57, 61, 62	0
75	o9	50/50 (100%)	0.10	1 (2%) 65 63	49, 54, 63, 64	0
76	Q0	52/52 (100%)	0.84	7 (13%) 3 4	53, 59, 74, 82	0
76	q0	52/52 (100%)	0.08	1 (1%) 66 64	38, 42, 52, 57	0
77	Q1	25/25 (100%)	0.23	0 100 100	62, 66, 72, 74	0
77	q1	25/25 (100%)	-0.20	0 100 100	49, 53, 54, 55	0
78	Q2	105/105 (100%)	0.42	8 (7%) 13 16	41, 55, 76, 97	0
78	q2	105/105 (100%)	0.14	1 (0%) 82 79	40, 53, 69, 96	0
79	Q3	91/91 (100%)	0.29	2 (2%) 62 59	49, 65, 79, 85	0
79	q3	91/91 (100%)	0.10	0 100 100	40, 55, 71, 81	0
80	m2	150/165 (90%)	1.15	38 (25%) 0 0	102, 138, 156, 161	0
81	p0	143/311 (45%)	1.98	67 (46%) 0 0	100, 125, 220, 229	0
82	p1	47/106 (44%)	4.08	35 (74%) 0 0	179, 224, 242, 245	0
82	p2	46/106 (43%)	4.88	35 (76%) 0 0	275, 283, 288, 289	0
83	f	147/157 (93%)	2.14	69 (46%) 0 0	47, 99, 167, 169	74 (50%)
84	B	2/3 (66%)	0.68	0 100 100	45, 45, 45, 48	0
84	C	2/3 (66%)	0.33	0 100 100	43, 43, 43, 49	0
All	All	33488/35639 (93%)	0.61	3755 (11%) 5 7	18, 74, 141, 289	74 (0%)

The worst 5 of 3755 RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
82	p2	31	ASN	22.6
82	p2	30	THR	19.2
82	p1	17	SER	14.0
82	p2	32	ALA	13.3
82	p2	12	LEU	12.9

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

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
83	5CT	f	51	15/16	0.71	0.36	44,44,44,44	15
84	8AN	C	76	22/23	0.95	0.24	40,42,43,43	0
84	8AN	B	76	22/23	0.97	0.20	44,44,45,45	0

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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	2	1943	1/1	0.35	0.41	115,115,115,115	0
85	MG	2	1987	1/1	0.35	0.31	104,104,104,104	0
85	MG	2	1986	1/1	0.40	0.39	118,118,118,118	0
85	MG	6	1980	1/1	0.40	0.27	76,76,76,76	0
85	MG	5	3462	1/1	0.40	0.22	109,109,109,109	0
85	MG	6	1984	1/1	0.44	0.26	109,109,109,109	0
85	MG	6	1974	1/1	0.46	0.34	94,94,94,94	0
85	MG	5	3680	1/1	0.46	0.44	70,70,70,70	0
85	MG	1	3600	1/1	0.47	0.36	60,60,60,60	0
85	MG	6	1990	1/1	0.48	0.53	79,79,79,79	0
85	MG	1	3742	1/1	0.53	0.70	44,44,44,44	0
85	MG	6	1972	1/1	0.53	0.34	81,81,81,81	0
85	MG	6	2004	1/1	0.54	0.80	74,74,74,74	0
85	MG	2	1965	1/1	0.55	0.87	76,76,76,76	0
85	MG	5	3638	1/1	0.55	0.42	50,50,50,50	0
85	MG	4	203	1/1	0.55	0.67	57,57,57,57	0
85	MG	2	1969	1/1	0.56	0.28	108,108,108,108	0
85	MG	2	1939	1/1	0.56	0.55	130,130,130,130	0
85	MG	6	1937	1/1	0.56	0.88	98,98,98,98	0
85	MG	5	3757	1/1	0.56	0.18	73,73,73,73	0
85	MG	5	3816	1/1	0.56	0.45	39,39,39,39	0
85	MG	5	3674	1/1	0.57	0.23	65,65,65,65	0
85	MG	2	1985	1/1	0.57	0.53	86,86,86,86	0
85	MG	l7	2200	1/1	0.58	0.32	50,50,50,50	0
85	MG	2	1978	1/1	0.59	0.33	74,74,74,74	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	6	1996	1/1	0.59	0.68	70,70,70,70	0
85	MG	2	1927	1/1	0.60	0.24	85,85,85,85	0
85	MG	1	3407	1/1	0.61	0.54	33,33,33,33	0
85	MG	2	1953	1/1	0.62	0.21	89,89,89,89	0
85	MG	1	3523	1/1	0.64	0.41	54,54,54,54	0
85	MG	2	1958	1/1	0.64	0.53	104,104,104,104	0
85	MG	6	1915	1/1	0.64	0.41	75,75,75,75	0
85	MG	1	3695	1/1	0.65	0.39	58,58,58,58	0
85	MG	5	3446	1/1	0.66	0.48	64,64,64,64	0
85	MG	6	1986	1/1	0.67	0.95	93,93,93,93	0
85	MG	5	3637	1/1	0.67	0.57	36,36,36,36	0
86	OHX	2	2135	7/7	0.67	0.15	188,188,188,188	6
85	MG	2	1989	1/1	0.68	0.47	65,65,65,65	0
85	MG	2	1973	1/1	0.68	0.45	80,80,80,80	0
85	MG	5	3741	1/1	0.68	0.52	66,66,66,66	0
85	MG	2	1974	1/1	0.68	0.41	83,83,83,83	0
85	MG	2	1904	1/1	0.68	0.44	90,90,90,90	0
85	MG	6	1932	1/1	0.68	0.40	72,72,72,72	0
85	MG	1	3662	1/1	0.68	0.79	101,101,101,101	0
86	OHX	6	2178	7/7	0.68	0.28	145,145,145,145	6
85	MG	M7	201	1/1	0.69	0.59	71,71,71,71	0
85	MG	5	3448	1/1	0.69	0.47	36,36,36,36	0
85	MG	D3	201	1/1	0.69	0.43	54,54,54,54	0
85	MG	o3	201	1/1	0.69	0.31	51,51,51,51	0
85	MG	5	3481	1/1	0.69	0.24	76,76,76,76	0
85	MG	5	3613	1/1	0.69	0.54	42,42,42,42	0
85	MG	5	3423	1/1	0.70	0.22	43,43,43,43	0
85	MG	1	3743	1/1	0.70	0.37	50,50,50,50	0
85	MG	1	3754	1/1	0.70	0.43	71,71,71,71	0
85	MG	5	3460	1/1	0.70	0.48	36,36,36,36	0
85	MG	1	3714	1/1	0.70	0.68	46,46,46,46	0
85	MG	4	205	1/1	0.70	0.61	58,58,58,58	0
87	ZN	D7	101	1/1	0.70	0.37	161,161,161,161	0
85	MG	5	3746	1/1	0.71	0.48	76,76,76,76	0
85	MG	1	3679	1/1	0.71	0.26	59,59,59,59	0
86	OHX	2	2149	7/7	0.71	0.28	137,137,137,137	6
85	MG	5	3685	1/1	0.71	0.69	48,48,48,48	0
85	MG	6	1985	1/1	0.71	0.49	55,55,55,55	0
85	MG	5	3464	1/1	0.72	0.15	125,125,125,125	0
85	MG	c8	202	1/1	0.72	0.31	84,84,84,84	0
85	MG	5	3483	1/1	0.72	0.87	52,52,52,52	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3708	1/1	0.72	0.45	42,42,42,42	0
85	MG	5	3444	1/1	0.72	0.46	34,34,34,34	0
85	MG	2	1959	1/1	0.72	0.29	87,87,87,87	0
85	MG	5	3672	1/1	0.72	0.54	62,62,62,62	0
85	MG	2	1938	1/1	0.72	0.26	72,72,72,72	0
85	MG	1	3692	1/1	0.72	0.54	61,61,61,61	0
85	MG	1	3608	1/1	0.72	0.43	46,46,46,46	0
85	MG	2	1936	1/1	0.73	0.14	83,83,83,83	0
86	OHX	2	2133	7/7	0.73	0.20	214,214,214,214	6
85	MG	2	1950	1/1	0.73	0.31	108,108,108,108	0
85	MG	5	3784	1/1	0.73	0.34	35,35,35,35	0
85	MG	5	3715	1/1	0.73	0.32	62,62,62,62	0
86	OHX	6	2183	7/7	0.73	0.59	76,76,76,76	5
85	MG	6	1960	1/1	0.73	0.14	65,65,65,65	0
85	MG	2	1912	1/1	0.74	0.49	88,88,88,88	0
85	MG	2	1930	1/1	0.74	0.40	72,72,72,72	0
85	MG	5	3503	1/1	0.74	0.47	57,57,57,57	0
85	MG	5	3599	1/1	0.74	0.56	39,39,39,39	0
85	MG	1	3642	1/1	0.74	0.57	32,32,32,32	0
85	MG	1	3423	1/1	0.74	0.48	46,46,46,46	0
85	MG	2	1960	1/1	0.74	0.28	76,76,76,76	0
85	MG	5	3426	1/1	0.74	0.47	45,45,45,45	0
85	MG	5	3807	1/1	0.74	0.24	54,54,54,54	0
85	MG	6	1993	1/1	0.75	0.26	66,66,66,66	0
85	MG	1	3747	1/1	0.75	0.34	48,48,48,48	0
85	MG	6	1961	1/1	0.75	0.15	95,95,95,95	0
85	MG	5	3698	1/1	0.75	0.61	42,42,42,42	0
86	OHX	2	2150	7/7	0.75	0.14	151,151,151,151	7
85	MG	5	3649	1/1	0.75	0.68	47,47,47,47	0
85	MG	8	207	1/1	0.75	0.43	43,43,43,43	0
85	MG	1	3700	1/1	0.75	0.34	51,51,51,51	0
85	MG	7	207	1/1	0.76	0.41	55,55,55,55	0
85	MG	5	3552	1/1	0.76	0.50	52,52,52,52	0
85	MG	5	3690	1/1	0.76	0.61	75,75,75,75	0
85	MG	5	3401	1/1	0.76	0.21	53,53,53,53	0
85	MG	1	3591	1/1	0.76	0.32	53,53,53,53	0
85	MG	1	3723	1/1	0.76	0.52	67,67,67,67	0
85	MG	5	3468	1/1	0.76	0.43	47,47,47,47	0
85	MG	1	3737	1/1	0.76	0.42	63,63,63,63	0
85	MG	6	2008	1/1	0.76	0.95	61,61,61,61	0
85	MG	6	1982	1/1	0.76	1.00	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3543	1/1	0.76	0.55	41,41,41,41	0
85	MG	5	3469	1/1	0.77	0.54	38,38,38,38	1
85	MG	5	3573	1/1	0.77	0.27	48,48,48,48	0
85	MG	1	3634	1/1	0.77	0.69	41,41,41,41	0
85	MG	1	3639	1/1	0.77	0.71	56,56,56,56	0
86	OHX	3	219	7/7	0.77	0.24	82,82,82,82	5
85	MG	l4	401	1/1	0.77	0.45	42,42,42,42	0
85	MG	5	3418	1/1	0.77	0.50	36,36,36,36	0
86	OHX	5	4159	7/7	0.77	0.39	48,48,48,48	4
86	OHX	5	4162	7/7	0.77	0.36	100,100,100,100	7
85	MG	2	1957	1/1	0.77	0.34	99,99,99,99	0
85	MG	5	3714	1/1	0.78	0.42	36,36,36,36	0
85	MG	1	3729	1/1	0.78	0.46	69,69,69,69	0
85	MG	5	3651	1/1	0.78	0.36	42,42,42,42	0
85	MG	1	3617	1/1	0.78	0.49	41,41,41,41	0
85	MG	1	3661	1/1	0.78	0.29	51,51,51,51	0
85	MG	5	3773	1/1	0.78	0.77	52,52,52,52	0
85	MG	5	3778	1/1	0.78	0.33	115,115,115,115	0
85	MG	1	3449	1/1	0.78	0.41	57,57,57,57	0
85	MG	5	3790	1/1	0.78	0.32	69,69,69,69	0
85	MG	1	3663	1/1	0.78	0.97	44,44,44,44	0
86	OHX	5	4153	7/7	0.78	0.43	35,35,35,35	4
85	MG	5	3686	1/1	0.78	0.32	92,92,92,92	0
85	MG	1	3665	1/1	0.78	0.69	48,48,48,48	0
86	OHX	5	4166	7/7	0.78	0.52	49,49,49,49	4
85	MG	1	3612	1/1	0.78	0.30	55,55,55,55	0
85	MG	M6	202	1/1	0.79	0.29	40,40,40,40	0
85	MG	2	1967	1/1	0.79	0.29	93,93,93,93	0
85	MG	5	3598	1/1	0.79	0.40	48,48,48,48	0
85	MG	5	3723	1/1	0.79	0.40	52,52,52,52	0
85	MG	3	203	1/1	0.79	0.76	42,42,42,42	0
85	MG	1	3491	1/1	0.79	0.64	51,51,51,51	0
85	MG	5	3750	1/1	0.79	0.42	37,37,37,37	0
85	MG	5	3625	1/1	0.79	0.40	51,51,51,51	0
85	MG	2	1949	1/1	0.79	1.00	86,86,86,86	0
86	OHX	2	2104	7/7	0.79	0.20	119,119,119,119	5
85	MG	4	214	1/1	0.79	0.53	41,41,41,41	0
85	MG	2	1963	1/1	0.80	0.19	83,83,83,83	0
85	MG	8	209	1/1	0.80	0.69	55,55,55,55	0
85	MG	M9	201	1/1	0.80	0.31	75,75,75,75	0
85	MG	N6	201	1/1	0.80	0.47	70,70,70,70	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	2	1932	1/1	0.80	0.61	64,64,64,64	0
85	MG	5	3600	1/1	0.80	0.43	37,37,37,37	0
85	MG	4	201	1/1	0.80	0.34	36,36,36,36	0
85	MG	2	1945	1/1	0.80	0.22	107,107,107,107	0
85	MG	6	1992	1/1	0.80	0.33	61,61,61,61	0
85	MG	6	1944	1/1	0.80	0.27	63,63,63,63	0
86	OHX	1	4089	7/7	0.80	0.34	55,55,55,55	6
85	MG	6	1954	1/1	0.80	0.65	64,64,64,64	0
85	MG	1	3459	1/1	0.80	0.66	60,60,60,60	0
85	MG	1	3745	1/1	0.80	0.46	53,53,53,53	0
86	OHX	5	4062	7/7	0.80	0.47	56,56,56,56	3
85	MG	6	1965	1/1	0.80	0.39	48,48,48,48	0
85	MG	4	215	1/1	0.80	0.85	55,55,55,55	0
85	MG	2	1909	1/1	0.80	0.48	83,83,83,83	0
85	MG	5	3545	1/1	0.80	0.53	57,57,57,57	0
86	OHX	m1	201	7/7	0.80	0.32	78,78,78,78	3
85	MG	8	203	1/1	0.80	0.36	57,57,57,57	0
85	MG	3	202	1/1	0.81	0.43	56,56,56,56	0
85	MG	5	3681	1/1	0.81	0.35	43,43,43,43	0
85	MG	5	3500	1/1	0.81	0.40	40,40,40,40	0
85	MG	d6	102	1/1	0.81	0.61	68,68,68,68	0
85	MG	6	1978	1/1	0.81	0.56	77,77,77,77	0
85	MG	5	3694	1/1	0.81	0.28	55,55,55,55	0
85	MG	5	3696	1/1	0.81	0.57	45,45,45,45	0
85	MG	5	3697	1/1	0.81	0.16	61,61,61,61	0
85	MG	5	3405	1/1	0.81	0.72	49,49,49,49	0
85	MG	5	3412	1/1	0.81	0.25	47,47,47,47	0
85	MG	O7	101	1/1	0.81	0.45	62,62,62,62	0
85	MG	1	3483	1/1	0.81	0.83	54,54,54,54	0
86	OHX	1	3971	7/7	0.81	0.37	47,47,47,47	4
85	MG	2	1916	1/1	0.81	0.68	63,63,63,63	0
85	MG	1	3739	1/1	0.81	0.39	72,72,72,72	0
86	OHX	L3	404	7/7	0.81	0.27	84,84,84,84	6
86	OHX	O9	101	7/7	0.81	0.35	51,51,51,51	6
86	OHX	6	2161	7/7	0.81	0.35	84,84,84,84	6
85	MG	2	1921	1/1	0.81	0.63	63,63,63,63	0
85	MG	1	3573	1/1	0.81	0.71	40,40,40,40	0
85	MG	2	1908	1/1	0.81	0.30	90,90,90,90	0
86	OHX	5	4086	7/7	0.81	0.47	70,70,70,70	4
86	OHX	5	4095	7/7	0.81	0.41	41,41,41,41	2
85	MG	5	3777	1/1	0.81	0.40	41,41,41,41	0
85	MG	1	3638	1/1	0.81	0.91	48,48,48,48	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3675	1/1	0.81	0.37	49,49,49,49	0
85	MG	6	1970	1/1	0.81	1.00	64,64,64,64	0
85	MG	1	3760	1/1	0.81	0.13	62,62,62,62	0
85	MG	6	2011	1/1	0.81	0.72	48,48,48,48	0
85	MG	5	3641	1/1	0.82	1.16	55,55,55,55	0
85	MG	5	3726	1/1	0.82	0.55	46,46,46,46	0
85	MG	6	1914	1/1	0.82	0.77	62,62,62,62	0
86	OHX	2	2142	7/7	0.82	0.16	132,132,132,132	7
85	MG	4	212	1/1	0.82	0.39	60,60,60,60	0
85	MG	5	3670	1/1	0.82	0.41	35,35,35,35	0
85	MG	6	1919	1/1	0.82	1.05	64,64,64,64	0
85	MG	5	3673	1/1	0.82	0.30	78,78,78,78	0
86	OHX	1	4098	7/7	0.82	0.34	61,61,61,61	5
85	MG	5	3774	1/1	0.82	0.65	55,55,55,55	0
85	MG	1	3410	1/1	0.82	0.56	39,39,39,39	0
86	OHX	M0	304	7/7	0.82	0.29	101,101,101,101	6
85	MG	1	3711	1/1	0.82	0.36	54,54,54,54	0
85	MG	L6	201	1/1	0.82	0.19	57,57,57,57	0
85	MG	5	3577	1/1	0.82	0.44	31,31,31,31	0
85	MG	5	3795	1/1	0.82	0.27	41,41,41,41	0
85	MG	1	3629	1/1	0.82	0.92	33,33,33,33	0
85	MG	1	3420	1/1	0.82	0.44	45,45,45,45	0
85	MG	1	3543	1/1	0.82	0.14	58,58,58,58	0
85	MG	2	1901	1/1	0.82	0.30	87,87,87,87	0
85	MG	5	3623	1/1	0.82	0.37	42,42,42,42	0
85	MG	4	206	1/1	0.82	0.74	44,44,44,44	0
85	MG	5	3712	1/1	0.82	0.35	67,67,67,67	0
86	OHX	8	230	7/7	0.82	0.37	68,68,68,68	3
85	MG	5	3487	1/1	0.82	0.69	37,37,37,37	0
85	MG	5	3491	1/1	0.82	0.65	41,41,41,41	0
85	MG	2	1902	1/1	0.83	0.94	49,49,49,49	0
85	MG	1	3505	1/1	0.83	0.78	38,38,38,38	0
86	OHX	2	2122	7/7	0.83	0.30	91,91,91,91	7
85	MG	2	1964	1/1	0.83	0.38	92,92,92,92	0
85	MG	5	3640	1/1	0.83	0.16	50,50,50,50	0
85	MG	5	3730	1/1	0.83	0.52	41,41,41,41	0
85	MG	s8	302	1/1	0.83	0.45	49,49,49,49	0
85	MG	1	3535	1/1	0.83	0.51	39,39,39,39	0
85	MG	1	3428	1/1	0.83	0.37	52,52,52,52	0
86	OHX	1	4062	7/7	0.83	0.40	51,51,51,51	3
86	OHX	1	4073	7/7	0.83	0.44	71,71,71,71	5
85	MG	5	3663	1/1	0.83	0.27	48,48,48,48	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3763	1/1	0.83	0.68	38,38,38,38	0
85	MG	5	3769	1/1	0.83	0.96	50,50,50,50	0
85	MG	1	3567	1/1	0.83	0.40	48,48,48,48	0
85	MG	2	1929	1/1	0.83	0.38	83,83,83,83	0
85	MG	5	3409	1/1	0.83	0.51	45,45,45,45	0
85	MG	5	3410	1/1	0.83	0.28	29,29,29,29	0
86	OHX	6	2163	7/7	0.83	0.39	61,61,61,61	4
85	MG	2	1906	1/1	0.83	0.35	68,68,68,68	0
85	MG	6	1925	1/1	0.83	0.31	49,49,49,49	0
86	OHX	5	3948	7/7	0.83	0.40	49,49,49,49	2
85	MG	6	1931	1/1	0.83	0.18	92,92,92,92	0
85	MG	1	3461	1/1	0.83	0.41	57,57,57,57	0
85	MG	5	3436	1/1	0.83	0.41	44,44,44,44	0
86	OHX	5	4143	7/7	0.83	0.33	50,50,50,50	4
85	MG	1	3467	1/1	0.83	0.51	42,42,42,42	0
85	MG	2	1910	1/1	0.83	0.62	69,69,69,69	0
85	MG	1	3489	1/1	0.83	0.73	67,67,67,67	0
85	MG	8	208	1/1	0.83	0.50	51,51,51,51	0
85	MG	5	3456	1/1	0.83	0.53	31,31,31,31	0
85	MG	5	3702	1/1	0.83	0.35	54,54,54,54	0
85	MG	1	3746	1/1	0.83	0.48	43,43,43,43	0
85	MG	5	3767	1/1	0.84	0.34	43,43,43,43	0
85	MG	3	208	1/1	0.84	0.82	42,42,42,42	0
85	MG	1	3707	1/1	0.84	0.53	48,48,48,48	0
86	OHX	2	2151	7/7	0.84	0.29	112,112,112,112	7
85	MG	2	1923	1/1	0.84	0.89	45,45,45,45	0
86	OHX	1	3975	7/7	0.84	0.24	88,88,88,88	3
85	MG	6	1917	1/1	0.84	0.47	64,64,64,64	0
85	MG	1	3710	1/1	0.84	0.24	46,46,46,46	0
85	MG	5	3402	1/1	0.84	0.07	54,54,54,54	0
85	MG	5	3630	1/1	0.84	0.41	56,56,56,56	0
85	MG	1	3677	1/1	0.84	0.36	46,46,46,46	0
85	MG	5	3802	1/1	0.84	0.74	44,44,44,44	0
85	MG	1	3533	1/1	0.84	0.78	49,49,49,49	0
85	MG	5	3813	1/1	0.84	0.62	31,31,31,31	0
85	MG	5	3706	1/1	0.84	0.43	32,32,32,32	0
85	MG	1	3750	1/1	0.84	0.79	48,48,48,48	0
85	MG	7	210	1/1	0.84	0.29	43,43,43,43	0
85	MG	6	1933	1/1	0.84	0.63	56,56,56,56	0
85	MG	5	3646	1/1	0.84	0.52	56,56,56,56	0
85	MG	1	3752	1/1	0.84	0.19	64,64,64,64	0
85	MG	5	3502	1/1	0.84	0.86	31,31,31,31	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3653	1/1	0.84	1.20	55,55,55,55	0
85	MG	5	3734	1/1	0.84	0.27	45,45,45,45	0
85	MG	1	3755	1/1	0.84	0.33	45,45,45,45	0
85	MG	1	3656	1/1	0.84	0.57	46,46,46,46	0
86	OHX	2	2109	7/7	0.84	0.30	105,105,105,105	6
85	MG	1	3673	1/1	0.84	0.52	39,39,39,39	0
86	OHX	2	2124	7/7	0.84	0.18	128,128,128,128	6
85	MG	1	3702	1/1	0.84	0.52	45,45,45,45	0
85	MG	6	2009	1/1	0.84	0.68	64,64,64,64	0
85	MG	6	1935	1/1	0.85	0.85	44,44,44,44	0
85	MG	5	3661	1/1	0.85	0.35	64,64,64,64	0
85	MG	1	3719	1/1	0.85	0.46	65,65,65,65	0
85	MG	5	3669	1/1	0.85	0.19	36,36,36,36	1
85	MG	1	3607	1/1	0.85	0.56	85,85,85,85	0
85	MG	5	3549	1/1	0.85	0.32	43,43,43,43	0
85	MG	6	1953	1/1	0.85	0.46	63,63,63,63	0
86	OHX	1	3867	7/7	0.85	0.32	51,51,51,51	4
86	OHX	1	3915	7/7	0.85	0.38	66,66,66,66	4
85	MG	1	3471	1/1	0.85	0.50	45,45,45,45	0
85	MG	1	3685	1/1	0.85	0.30	43,43,43,43	0
85	MG	6	2007	1/1	0.85	0.98	51,51,51,51	0
85	MG	O4	201	1/1	0.85	0.15	77,77,77,77	0
85	MG	1	3544	1/1	0.85	0.53	55,55,55,55	0
85	MG	5	3610	1/1	0.85	0.19	49,49,49,49	0
86	OHX	1	4104	7/7	0.85	0.24	73,73,73,73	6
86	OHX	1	4106	7/7	0.85	0.20	72,72,72,72	4
85	MG	1	3657	1/1	0.85	0.63	49,49,49,49	0
86	OHX	4	232	7/7	0.85	0.32	73,73,73,73	5
85	MG	5	3621	1/1	0.85	0.40	36,36,36,36	0
85	MG	6	1971	1/1	0.85	0.47	90,90,90,90	0
85	MG	5	3815	1/1	0.85	0.70	44,44,44,44	0
85	MG	1	3615	1/1	0.85	0.29	68,68,68,68	0
85	MG	1	3443	1/1	0.85	0.55	46,46,46,46	0
85	MG	5	3632	1/1	0.85	0.68	36,36,36,36	0
85	MG	5	3635	1/1	0.85	0.17	50,50,50,50	0
85	MG	2	1951	1/1	0.85	0.40	71,71,71,71	0
86	OHX	5	4054	7/7	0.85	0.62	50,50,50,50	2
85	MG	6	1979	1/1	0.85	0.32	101,101,101,101	0
85	MG	1	3534	1/1	0.85	0.27	69,69,69,69	0
85	MG	1	3592	1/1	0.85	0.19	61,61,61,61	0
86	OHX	5	4133	7/7	0.85	0.48	34,34,34,34	3
85	MG	1	3674	1/1	0.85	0.40	68,68,68,68	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	4147	7/7	0.85	0.27	89,89,89,89	7
86	OHX	5	4149	7/7	0.85	0.16	145,145,145,145	7
85	MG	n0	201	1/1	0.85	0.34	41,41,41,41	0
85	MG	5	3647	1/1	0.85	0.27	55,55,55,55	0
85	MG	5	3738	1/1	0.85	0.31	42,42,42,42	0
85	MG	1	3457	1/1	0.85	0.64	32,32,32,32	0
86	OHX	2	2117	7/7	0.85	0.31	93,93,93,93	4
85	MG	5	3744	1/1	0.85	0.45	57,57,57,57	0
86	OHX	2	2123	7/7	0.85	0.33	121,121,121,121	5
85	MG	1	3701	1/1	0.86	0.29	52,52,52,52	0
85	MG	1	3551	1/1	0.86	0.55	38,38,38,38	0
85	MG	5	3771	1/1	0.86	0.42	36,36,36,36	0
85	MG	2	1948	1/1	0.86	0.58	72,72,72,72	0
86	OHX	S6	301	7/7	0.86	0.14	117,117,117,117	7
85	MG	1	3572	1/1	0.86	0.74	57,57,57,57	0
85	MG	5	3682	1/1	0.86	0.44	45,45,45,45	0
85	MG	5	3615	1/1	0.86	0.53	35,35,35,35	0
85	MG	5	3782	1/1	0.86	0.22	48,48,48,48	0
86	OHX	1	4009	7/7	0.86	0.22	131,131,131,131	7
86	OHX	1	4029	7/7	0.86	0.28	82,82,82,82	3
85	MG	4	204	1/1	0.86	0.63	64,64,64,64	0
86	OHX	1	4069	7/7	0.86	0.38	58,58,58,58	5
85	MG	6	1988	1/1	0.86	0.26	80,80,80,80	0
86	OHX	1	4079	7/7	0.86	0.25	108,108,108,108	6
85	MG	5	3408	1/1	0.86	0.43	40,40,40,40	0
85	MG	1	3474	1/1	0.86	0.29	48,48,48,48	0
85	MG	5	3804	1/1	0.86	0.28	49,49,49,49	0
85	MG	1	3658	1/1	0.86	0.47	42,42,42,42	0
85	MG	5	3809	1/1	0.86	0.41	42,42,42,42	0
85	MG	5	3488	1/1	0.86	0.35	44,44,44,44	0
85	MG	5	3411	1/1	0.86	0.54	44,44,44,44	0
85	MG	6	1967	1/1	0.86	0.41	76,76,76,76	0
86	OHX	M9	202	7/7	0.86	0.20	77,77,77,77	3
85	MG	5	3709	1/1	0.86	0.60	51,51,51,51	0
86	OHX	6	2141	7/7	0.86	0.18	151,151,151,151	7
85	MG	5	3414	1/1	0.86	0.32	33,33,33,33	0
85	MG	1	3682	1/1	0.86	0.28	36,36,36,36	0
86	OHX	6	2164	7/7	0.86	0.37	44,44,44,44	5
86	OHX	6	2168	7/7	0.86	0.27	76,76,76,76	3
85	MG	5	3645	1/1	0.86	0.54	31,31,31,31	0
85	MG	5	3518	1/1	0.86	0.43	38,38,38,38	0
85	MG	2	1955	1/1	0.86	0.89	62,62,62,62	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	4048	7/7	0.86	0.23	69,69,69,69	3
85	MG	5	3727	1/1	0.86	0.56	44,44,44,44	0
85	MG	2	1979	1/1	0.86	0.46	70,70,70,70	0
85	MG	m3	201	1/1	0.86	0.49	40,40,40,40	0
85	MG	5	3650	1/1	0.86	0.57	29,29,29,29	0
86	OHX	5	4122	7/7	0.86	0.29	52,52,52,52	3
86	OHX	5	4130	7/7	0.86	0.17	171,171,171,171	7
85	MG	n6	201	1/1	0.86	0.43	56,56,56,56	0
86	OHX	5	4136	7/7	0.86	0.13	180,180,180,180	7
86	OHX	5	4139	7/7	0.86	0.16	108,108,108,108	5
85	MG	1	3726	1/1	0.86	0.27	64,64,64,64	0
86	OHX	2	2072	7/7	0.86	0.19	187,187,187,187	7
85	MG	5	3659	1/1	0.86	0.38	39,39,39,39	0
85	MG	1	3463	1/1	0.86	0.37	39,39,39,39	0
85	MG	5	3555	1/1	0.86	0.25	54,54,54,54	0
85	MG	1	3452	1/1	0.86	0.74	55,55,55,55	0
85	MG	5	3755	1/1	0.86	0.95	55,55,55,55	0
86	OHX	5	4169	7/7	0.86	0.25	81,81,81,81	7
85	MG	s4	601	1/1	0.86	0.14	66,66,66,66	0
85	MG	5	3760	1/1	0.86	0.23	53,53,53,53	0
85	MG	5	3451	1/1	0.86	0.51	40,40,40,40	0
86	OHX	1	4039	7/7	0.87	0.09	278,278,278,278	6
86	OHX	1	4044	7/7	0.87	0.26	108,108,108,108	4
85	MG	1	3577	1/1	0.87	0.66	39,39,39,39	0
86	OHX	1	4067	7/7	0.87	0.27	107,107,107,107	7
85	MG	7	212	1/1	0.87	0.81	51,51,51,51	0
85	MG	1	3713	1/1	0.87	0.99	40,40,40,40	0
85	MG	5	3676	1/1	0.87	0.24	51,51,51,51	0
85	MG	5	3485	1/1	0.87	0.47	38,38,38,38	0
86	OHX	1	4090	7/7	0.87	0.32	47,47,47,47	4
85	MG	M7	203	1/1	0.87	0.34	46,46,46,46	0
86	OHX	1	4099	7/7	0.87	0.38	53,53,53,53	3
85	MG	1	3641	1/1	0.87	0.46	49,49,49,49	0
85	MG	1	3508	1/1	0.87	0.61	38,38,38,38	0
86	OHX	1	4108	7/7	0.87	0.23	59,59,59,59	5
85	MG	2	1940	1/1	0.87	0.67	80,80,80,80	0
85	MG	m5	302	1/1	0.87	0.35	46,46,46,46	0
85	MG	5	3687	1/1	0.87	0.69	37,37,37,37	0
85	MG	1	3444	1/1	0.87	0.52	35,35,35,35	0
85	MG	5	3691	1/1	0.87	0.68	38,38,38,38	0
86	OHX	2	2049	7/7	0.87	0.29	100,100,100,100	4
86	OHX	6	2135	7/7	0.87	0.25	94,94,94,94	7

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	6	1907	1/1	0.87	0.42	51,51,51,51	0
86	OHX	6	2158	7/7	0.87	0.31	131,131,131,131	7
85	MG	5	3432	1/1	0.87	0.30	32,32,32,32	0
86	OHX	2	2105	7/7	0.87	0.24	87,87,87,87	3
85	MG	5	3775	1/1	0.87	0.61	40,40,40,40	0
85	MG	1	3690	1/1	0.87	0.48	63,63,63,63	0
86	OHX	6	2173	7/7	0.87	0.28	64,64,64,64	5
85	MG	2	1925	1/1	0.87	0.30	67,67,67,67	0
85	MG	2	1919	1/1	0.87	0.35	62,62,62,62	0
85	MG	1	3475	1/1	0.87	0.51	44,44,44,44	0
86	OHX	2	2130	7/7	0.87	0.30	84,84,84,84	4
85	MG	5	3449	1/1	0.87	0.43	32,32,32,32	0
86	OHX	2	2134	7/7	0.87	0.30	74,74,74,74	4
85	MG	5	3792	1/1	0.87	0.35	55,55,55,55	0
85	MG	2	1946	1/1	0.87	0.07	108,108,108,108	0
86	OHX	5	4116	7/7	0.87	0.34	52,52,52,52	4
86	OHX	2	2143	7/7	0.87	0.29	84,84,84,84	5
86	OHX	5	4123	7/7	0.87	0.41	76,76,76,76	5
86	OHX	2	2145	7/7	0.87	0.25	103,103,103,103	4
85	MG	5	3801	1/1	0.87	0.35	44,44,44,44	0
85	MG	c9	201	1/1	0.87	0.12	83,83,83,83	0
85	MG	5	3803	1/1	0.87	0.36	35,35,35,35	0
86	OHX	2	2152	7/7	0.87	0.31	122,122,122,122	6
85	MG	1	3487	1/1	0.87	0.39	49,49,49,49	0
85	MG	1	3458	1/1	0.87	0.64	51,51,51,51	0
86	OHX	1	3871	7/7	0.87	0.49	61,61,61,61	2
86	OHX	5	4157	7/7	0.87	0.29	44,44,44,44	5
86	OHX	5	4158	7/7	0.87	0.39	35,35,35,35	3
85	MG	1	3406	1/1	0.87	0.29	44,44,44,44	0
86	OHX	1	3928	7/7	0.87	0.28	49,49,49,49	3
85	MG	5	3668	1/1	0.87	0.45	33,33,33,33	0
85	MG	5	3603	1/1	0.87	0.27	50,50,50,50	0
86	OHX	5	4172	7/7	0.87	0.66	45,45,45,45	3
86	OHX	8	228	7/7	0.87	0.48	73,73,73,73	5
85	MG	1	3434	1/1	0.87	0.51	62,62,62,62	0
86	OHX	1	4019	7/7	0.87	0.30	47,47,47,47	2
85	MG	1	3751	1/1	0.87	0.90	67,67,67,67	0
85	MG	6	1983	1/1	0.88	0.83	57,57,57,57	0
85	MG	5	3515	1/1	0.88	0.34	42,42,42,42	0
86	OHX	1	4102	7/7	0.88	0.25	65,65,65,65	3
85	MG	1	3618	1/1	0.88	0.36	39,39,39,39	0
85	MG	1	3626	1/1	0.88	0.51	46,46,46,46	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	3	206	1/1	0.88	0.17	65,65,65,65	0
85	MG	5	3548	1/1	0.88	0.57	25,25,25,25	0
86	OHX	4	228	7/7	0.88	0.52	51,51,51,51	4
85	MG	1	3586	1/1	0.88	0.30	45,45,45,45	0
85	MG	6	1989	1/1	0.88	0.27	57,57,57,57	0
85	MG	5	3664	1/1	0.88	0.28	62,62,62,62	0
86	OHX	2	2112	7/7	0.88	0.18	121,121,121,121	6
85	MG	5	3554	1/1	0.88	0.61	32,32,32,32	0
86	OHX	6	2130	7/7	0.88	0.15	153,153,153,153	7
85	MG	1	3666	1/1	0.88	0.50	65,65,65,65	0
85	MG	5	3563	1/1	0.88	0.52	44,44,44,44	0
86	OHX	6	2149	7/7	0.88	0.29	95,95,95,95	6
86	OHX	6	2152	7/7	0.88	0.14	107,107,107,107	5
85	MG	1	3672	1/1	0.88	0.44	76,76,76,76	0
85	MG	1	3633	1/1	0.88	0.16	59,59,59,59	0
85	MG	S2	301	1/1	0.88	0.79	62,62,62,62	0
85	MG	1	3636	1/1	0.88	0.76	53,53,53,53	0
85	MG	1	3557	1/1	0.88	0.66	55,55,55,55	0
86	OHX	2	2141	7/7	0.88	0.56	90,90,90,90	6
85	MG	1	3566	1/1	0.88	0.32	47,47,47,47	0
85	MG	5	3604	1/1	0.88	0.35	33,33,33,33	0
86	OHX	5	3926	7/7	0.88	0.28	60,60,60,60	4
85	MG	6	1955	1/1	0.88	0.47	60,60,60,60	0
86	OHX	5	4043	7/7	0.88	0.32	38,38,38,38	4
85	MG	1	3603	1/1	0.88	0.26	63,63,63,63	0
85	MG	1	3604	1/1	0.88	0.69	39,39,39,39	0
85	MG	1	3643	1/1	0.88	0.82	38,38,38,38	0
85	MG	1	3648	1/1	0.88	0.44	42,42,42,42	0
86	OHX	5	4087	7/7	0.88	0.28	39,39,39,39	5
85	MG	1	3693	1/1	0.88	0.20	49,49,49,49	0
85	MG	5	3626	1/1	0.88	0.33	42,42,42,42	0
85	MG	5	3627	1/1	0.88	0.25	47,47,47,47	0
85	MG	5	3628	1/1	0.88	0.52	92,92,92,92	0
85	MG	1	3652	1/1	0.88	0.30	48,48,48,48	0
85	MG	5	3814	1/1	0.88	0.97	42,42,42,42	0
85	MG	5	3631	1/1	0.88	0.20	52,52,52,52	0
85	MG	2	1942	1/1	0.88	0.27	69,69,69,69	0
85	MG	5	3634	1/1	0.88	0.43	36,36,36,36	0
85	MG	7	208	1/1	0.88	0.27	45,45,45,45	0
85	MG	5	3713	1/1	0.88	0.36	38,38,38,38	0
85	MG	1	3568	1/1	0.88	0.44	36,36,36,36	0
86	OHX	1	4048	7/7	0.88	0.23	116,116,116,116	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	4050	7/7	0.88	0.29	58,58,58,58	5
85	MG	2	1970	1/1	0.88	0.54	65,65,65,65	0
86	OHX	5	4161	7/7	0.88	0.29	123,123,123,123	7
85	MG	5	3406	1/1	0.88	0.28	47,47,47,47	0
86	OHX	5	4164	7/7	0.88	0.28	61,61,61,61	7
86	OHX	5	4165	7/7	0.88	0.36	51,51,51,51	3
85	MG	2	1975	1/1	0.88	0.40	60,60,60,60	0
86	OHX	1	4070	7/7	0.88	0.17	111,111,111,111	6
85	MG	1	3756	1/1	0.88	0.75	53,53,53,53	0
86	OHX	1	4078	7/7	0.88	0.12	167,167,167,167	7
85	MG	5	3728	1/1	0.88	0.41	44,44,44,44	0
85	MG	5	3643	1/1	0.88	0.70	64,64,64,64	0
85	MG	1	3409	1/1	0.88	0.30	52,52,52,52	0
87	ZN	d7	101	1/1	0.88	0.39	147,147,147,147	0
85	MG	5	3424	1/1	0.89	0.24	56,56,56,56	0
86	OHX	1	4101	7/7	0.89	0.25	66,66,66,66	4
85	MG	n8	202	1/1	0.89	0.31	50,50,50,50	0
85	MG	2	1976	1/1	0.89	0.10	77,77,77,77	0
86	OHX	2	2035	7/7	0.89	0.21	116,116,116,116	5
86	OHX	2	2036	7/7	0.89	0.17	145,145,145,145	5
85	MG	5	3662	1/1	0.89	0.65	42,42,42,42	0
85	MG	1	3473	1/1	0.89	0.31	56,56,56,56	0
85	MG	5	3759	1/1	0.89	0.13	46,46,46,46	0
85	MG	1	3637	1/1	0.89	0.69	46,46,46,46	0
86	OHX	2	2107	7/7	0.89	0.49	66,66,66,66	4
85	MG	5	3762	1/1	0.89	0.59	38,38,38,38	0
85	MG	5	3574	1/1	0.89	0.29	37,37,37,37	0
85	MG	6	1995	1/1	0.89	0.51	47,47,47,47	0
85	MG	1	3419	1/1	0.89	0.24	36,36,36,36	0
86	OHX	6	2137	7/7	0.89	0.23	95,95,95,95	4
85	MG	6	2001	1/1	0.89	0.39	48,48,48,48	0
85	MG	6	1946	1/1	0.89	0.68	53,53,53,53	0
86	OHX	6	2150	7/7	0.89	0.32	78,78,78,78	6
85	MG	5	3450	1/1	0.89	0.81	45,45,45,45	0
85	MG	2	1933	1/1	0.89	0.45	70,70,70,70	0
85	MG	5	3453	1/1	0.89	0.96	33,33,33,33	0
85	MG	1	3478	1/1	0.89	0.18	60,60,60,60	0
86	OHX	2	2137	7/7	0.89	0.17	219,219,219,219	7
85	MG	5	3781	1/1	0.89	0.49	43,43,43,43	0
85	MG	2	1972	1/1	0.89	0.50	57,57,57,57	0
86	OHX	6	2177	7/7	0.89	0.16	141,141,141,141	7
85	MG	5	3616	1/1	0.89	0.22	42,42,42,42	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	2179	7/7	0.89	0.25	61,61,61,61	7
85	MG	5	3788	1/1	0.89	0.30	68,68,68,68	0
86	OHX	s1	302	7/7	0.89	0.23	99,99,99,99	6
85	MG	5	3620	1/1	0.89	0.64	39,39,39,39	0
85	MG	5	3791	1/1	0.89	0.20	46,46,46,46	0
86	OHX	5	4017	7/7	0.89	0.41	36,36,36,36	2
86	OHX	5	4034	7/7	0.89	0.28	66,66,66,66	4
85	MG	5	3461	1/1	0.89	0.28	57,57,57,57	0
85	MG	5	3622	1/1	0.89	0.35	62,62,62,62	0
85	MG	1	3605	1/1	0.89	0.26	44,44,44,44	0
85	MG	1	3691	1/1	0.89	0.23	64,64,64,64	0
86	OHX	5	4078	7/7	0.89	0.35	68,68,68,68	3
85	MG	5	3695	1/1	0.89	0.59	54,54,54,54	0
85	MG	s8	301	1/1	0.89	0.39	52,52,52,52	0
86	OHX	5	4091	7/7	0.89	0.38	45,45,45,45	2
86	OHX	1	3924	7/7	0.89	0.25	71,71,71,71	4
85	MG	2	1903	1/1	0.89	0.58	43,43,43,43	0
85	MG	1	3748	1/1	0.89	0.43	67,67,67,67	0
85	MG	5	3700	1/1	0.89	0.32	43,43,43,43	0
86	OHX	5	4127	7/7	0.89	0.42	44,44,44,44	3
86	OHX	1	3983	7/7	0.89	0.46	77,77,77,77	2
86	OHX	5	4132	7/7	0.89	0.47	45,45,45,45	4
85	MG	1	3650	1/1	0.89	0.24	47,47,47,47	0
85	MG	1	3558	1/1	0.89	0.52	35,35,35,35	0
85	MG	1	3565	1/1	0.89	0.49	40,40,40,40	0
86	OHX	5	4141	7/7	0.89	0.43	49,49,49,49	4
85	MG	1	3613	1/1	0.89	0.78	58,58,58,58	0
85	MG	1	3433	1/1	0.89	0.46	34,34,34,34	0
85	MG	1	3460	1/1	0.89	0.35	49,49,49,49	0
85	MG	7	211	1/1	0.89	0.50	57,57,57,57	0
85	MG	2	1911	1/1	0.89	0.84	77,77,77,77	0
86	OHX	1	4063	7/7	0.89	0.12	159,159,159,159	7
86	OHX	1	4066	7/7	0.89	0.28	63,63,63,63	6
85	MG	1	3622	1/1	0.89	0.67	44,44,44,44	0
85	MG	1	3437	1/1	0.89	0.66	44,44,44,44	0
85	MG	6	1920	1/1	0.89	0.44	46,46,46,46	0
85	MG	5	3522	1/1	0.89	0.35	36,36,36,36	0
86	OHX	1	4076	7/7	0.89	0.26	45,45,45,45	5
85	MG	6	1923	1/1	0.89	0.64	46,46,46,46	0
86	OHX	5	4171	7/7	0.89	0.19	90,90,90,90	5
85	MG	2	1907	1/1	0.89	0.58	62,62,62,62	0
85	MG	1	3630	1/1	0.89	0.42	76,76,76,76	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	8	229	7/7	0.89	0.19	101,101,101,101	6
85	MG	5	3420	1/1	0.89	0.68	26,26,26,26	0
86	OHX	1	4093	7/7	0.89	0.54	64,64,64,64	4
86	OHX	1	4094	7/7	0.89	0.20	77,77,77,77	4
85	MG	1	3529	1/1	0.89	0.54	34,34,34,34	0
86	OHX	2	2064	7/7	0.90	0.20	135,135,135,135	5
86	OHX	1	4107	7/7	0.90	0.14	91,91,91,91	6
85	MG	O7	103	1/1	0.90	0.37	49,49,49,49	0
85	MG	Q2	502	1/1	0.90	0.11	63,63,63,63	0
85	MG	5	3756	1/1	0.90	0.57	42,42,42,42	0
85	MG	1	3680	1/1	0.90	0.68	45,45,45,45	0
85	MG	6	1909	1/1	0.90	0.31	53,53,53,53	0
86	OHX	2	2111	7/7	0.90	0.23	112,112,112,112	5
85	MG	6	1910	1/1	0.90	0.28	91,91,91,91	0
86	OHX	N8	204	7/7	0.90	0.32	90,90,90,90	7
86	OHX	2	2114	7/7	0.90	0.17	103,103,103,103	4
85	MG	5	3521	1/1	0.90	0.51	44,44,44,44	0
85	MG	6	1913	1/1	0.90	0.28	79,79,79,79	0
85	MG	5	3523	1/1	0.90	0.51	29,29,29,29	0
85	MG	2	1917	1/1	0.90	0.50	54,54,54,54	0
86	OHX	2	2125	7/7	0.90	0.24	147,147,147,147	6
85	MG	2	1966	1/1	0.90	0.25	74,74,74,74	0
85	MG	5	3546	1/1	0.90	0.62	46,46,46,46	0
85	MG	3	205	1/1	0.90	0.50	68,68,68,68	0
85	MG	6	1918	1/1	0.90	0.41	41,41,41,41	0
85	MG	5	3422	1/1	0.90	0.43	44,44,44,44	0
86	OHX	2	2138	7/7	0.90	0.26	67,67,67,67	5
85	MG	1	3727	1/1	0.90	0.34	48,48,48,48	0
86	OHX	6	2169	7/7	0.90	0.17	89,89,89,89	4
86	OHX	6	2172	7/7	0.90	0.39	69,69,69,69	3
85	MG	1	3415	1/1	0.90	0.40	43,43,43,43	0
86	OHX	6	2175	7/7	0.90	0.17	100,100,100,100	6
85	MG	6	1987	1/1	0.90	0.53	77,77,77,77	0
86	OHX	2	2144	7/7	0.90	0.37	103,103,103,103	6
85	MG	5	3783	1/1	0.90	0.28	38,38,38,38	0
86	OHX	6	2181	7/7	0.90	0.17	117,117,117,117	7
85	MG	1	3660	1/1	0.90	0.17	82,82,82,82	0
85	MG	1	3442	1/1	0.90	0.18	52,52,52,52	0
86	OHX	c5	201	7/7	0.90	0.14	129,129,129,129	6
86	OHX	c5	202	7/7	0.90	0.42	109,109,109,109	6
85	MG	5	3789	1/1	0.90	0.26	49,49,49,49	0
85	MG	5	3438	1/1	0.90	0.55	39,39,39,39	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	4011	7/7	0.90	0.27	120,120,120,120	3
86	OHX	5	4013	7/7	0.90	0.18	119,119,119,119	4
85	MG	5	3580	1/1	0.90	0.64	38,38,38,38	0
86	OHX	1	3856	7/7	0.90	0.34	76,76,76,76	3
85	MG	5	3439	1/1	0.90	0.45	30,30,30,30	0
85	MG	6	1928	1/1	0.90	0.41	57,57,57,57	0
85	MG	1	3539	1/1	0.90	0.46	44,44,44,44	0
85	MG	5	3602	1/1	0.90	0.44	30,30,30,30	0
85	MG	1	3501	1/1	0.90	0.56	26,26,26,26	0
86	OHX	5	4082	7/7	0.90	0.14	92,92,92,92	3
86	OHX	1	3955	7/7	0.90	0.25	71,71,71,71	3
86	OHX	1	3963	7/7	0.90	0.46	51,51,51,51	3
85	MG	1	3614	1/1	0.90	0.56	54,54,54,54	0
85	MG	5	3693	1/1	0.90	0.37	38,38,38,38	0
86	OHX	5	4098	7/7	0.90	0.20	106,106,106,106	5
86	OHX	5	4105	7/7	0.90	0.27	84,84,84,84	4
85	MG	5	3608	1/1	0.90	0.46	50,50,50,50	0
86	OHX	5	4119	7/7	0.90	0.34	52,52,52,52	3
85	MG	1	3476	1/1	0.90	0.30	43,43,43,43	0
85	MG	1	3667	1/1	0.90	0.46	58,58,58,58	0
86	OHX	5	4125	7/7	0.90	0.34	48,48,48,48	5
86	OHX	1	4026	7/7	0.90	0.36	52,52,52,52	5
85	MG	6	2002	1/1	0.90	0.36	66,66,66,66	0
85	MG	5	3454	1/1	0.90	0.51	59,59,59,59	0
85	MG	1	3417	1/1	0.90	0.39	78,78,78,78	0
85	MG	1	3520	1/1	0.90	0.49	35,35,35,35	0
86	OHX	5	4137	7/7	0.90	0.42	50,50,50,50	4
85	MG	6	1947	1/1	0.90	0.43	50,50,50,50	0
86	OHX	1	4061	7/7	0.90	0.21	72,72,72,72	4
86	OHX	5	4142	7/7	0.90	0.29	58,58,58,58	4
85	MG	5	3708	1/1	0.90	0.13	50,50,50,50	0
86	OHX	5	4144	7/7	0.90	0.23	65,65,65,65	5
85	MG	6	1950	1/1	0.90	0.33	66,66,66,66	0
86	OHX	5	4148	7/7	0.90	0.20	100,100,100,100	6
85	MG	8	201	1/1	0.90	0.42	43,43,43,43	0
85	MG	5	3463	1/1	0.90	0.28	39,39,39,39	0
86	OHX	5	4154	7/7	0.90	0.21	111,111,111,111	6
85	MG	6	1951	1/1	0.90	0.57	43,43,43,43	0
85	MG	5	3467	1/1	0.90	0.45	47,47,47,47	0
85	MG	1	3480	1/1	0.90	0.38	46,46,46,46	0
86	OHX	5	4160	7/7	0.90	0.34	37,37,37,37	5
85	MG	5	3721	1/1	0.90	0.30	36,36,36,36	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	4077	7/7	0.90	0.24	62,62,62,62	4
85	MG	5	3629	1/1	0.90	0.29	35,35,35,35	0
85	MG	1	3623	1/1	0.90	0.20	57,57,57,57	0
85	MG	1	3753	1/1	0.90	0.79	107,107,107,107	0
85	MG	1	3601	1/1	0.90	0.21	72,72,72,72	0
85	MG	1	3524	1/1	0.90	0.52	44,44,44,44	0
85	MG	5	3486	1/1	0.90	0.33	51,51,51,51	0
86	OHX	7	224	7/7	0.90	0.24	54,54,54,54	5
86	OHX	1	4096	7/7	0.90	0.21	80,80,80,80	4
85	MG	6	1963	1/1	0.90	0.47	80,80,80,80	0
86	OHX	2	2011	7/7	0.90	0.33	83,83,83,83	3
85	MG	1	3717	1/1	0.90	0.56	59,59,59,59	0
85	MG	1	3758	1/1	0.90	0.29	48,48,48,48	0
85	MG	5	3499	1/1	0.90	0.43	42,42,42,42	0
86	OHX	6	2146	7/7	0.91	0.47	48,48,48,48	4
85	MG	5	3575	1/1	0.91	0.56	36,36,36,36	0
85	MG	6	1902	1/1	0.91	0.88	40,40,40,40	0
85	MG	5	3658	1/1	0.91	0.34	27,27,27,27	0
86	OHX	6	2157	7/7	0.91	0.23	90,90,90,90	7
85	MG	6	1904	1/1	0.91	0.53	59,59,59,59	0
86	OHX	1	3891	7/7	0.91	0.16	103,103,103,103	5
86	OHX	1	3899	7/7	0.91	0.33	52,52,52,52	4
85	MG	5	3597	1/1	0.91	0.26	44,44,44,44	0
86	OHX	6	2167	7/7	0.91	0.22	73,73,73,73	7
85	MG	5	3470	1/1	0.91	0.17	56,56,56,56	0
85	MG	5	3480	1/1	0.91	0.10	47,47,47,47	0
86	OHX	6	2171	7/7	0.91	0.35	53,53,53,53	7
85	MG	6	1905	1/1	0.91	0.36	51,51,51,51	0
85	MG	5	3667	1/1	0.91	0.49	86,86,86,86	0
85	MG	1	3492	1/1	0.91	0.64	32,32,32,32	0
86	OHX	6	2176	7/7	0.91	0.30	62,62,62,62	7
85	MG	5	3754	1/1	0.91	0.45	51,51,51,51	0
85	MG	l7	2201	1/1	0.91	0.28	46,46,46,46	0
85	MG	1	3403	1/1	0.91	0.27	42,42,42,42	0
85	MG	5	3421	1/1	0.91	0.38	38,38,38,38	0
86	OHX	6	2182	7/7	0.91	0.33	113,113,113,113	7
86	OHX	1	4021	7/7	0.91	0.42	58,58,58,58	3
86	OHX	1	4024	7/7	0.91	0.29	42,42,42,42	3
85	MG	1	3697	1/1	0.91	0.31	42,42,42,42	0
85	MG	6	1998	1/1	0.91	0.67	42,42,42,42	0
86	OHX	d4	201	7/7	0.91	0.26	90,90,90,90	6
86	OHX	1	4030	7/7	0.91	0.23	130,130,130,130	6

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3941	7/7	0.91	0.42	34,34,34,34	4
86	OHX	1	4032	7/7	0.91	0.27	52,52,52,52	3
85	MG	5	3612	1/1	0.91	0.32	40,40,40,40	0
85	MG	5	3489	1/1	0.91	0.59	39,39,39,39	0
85	MG	4	211	1/1	0.91	0.37	54,54,54,54	0
85	MG	1	3422	1/1	0.91	0.44	32,32,32,32	0
86	OHX	1	4058	7/7	0.91	0.29	100,100,100,100	4
86	OHX	5	4047	7/7	0.91	0.31	28,28,28,28	1
85	MG	1	3619	1/1	0.91	0.39	53,53,53,53	0
85	MG	5	3683	1/1	0.91	0.38	38,38,38,38	0
86	OHX	5	4061	7/7	0.91	0.22	55,55,55,55	4
85	MG	5	3684	1/1	0.91	0.26	62,62,62,62	0
86	OHX	1	4065	7/7	0.91	0.34	59,59,59,59	5
85	MG	1	3588	1/1	0.91	0.39	39,39,39,39	0
86	OHX	2	2077	7/7	0.91	0.24	108,108,108,108	7
86	OHX	2	2092	7/7	0.91	0.40	73,73,73,73	5
86	OHX	2	2099	7/7	0.91	0.12	185,185,185,185	7
86	OHX	2	2101	7/7	0.91	0.18	110,110,110,110	5
86	OHX	1	4075	7/7	0.91	0.21	75,75,75,75	5
85	MG	1	3416	1/1	0.91	1.00	43,43,43,43	0
86	OHX	5	4107	7/7	0.91	0.23	81,81,81,81	5
85	MG	L7	302	1/1	0.91	0.65	50,50,50,50	0
85	MG	5	3689	1/1	0.91	0.43	40,40,40,40	0
86	OHX	5	4121	7/7	0.91	0.25	68,68,68,68	7
85	MG	6	2010	1/1	0.91	0.24	53,53,53,53	0
86	OHX	1	4080	7/7	0.91	0.25	57,57,57,57	4
86	OHX	1	4085	7/7	0.91	0.17	61,61,61,61	6
85	MG	L7	303	1/1	0.91	0.21	50,50,50,50	0
85	MG	1	3741	1/1	0.91	0.44	46,46,46,46	0
85	MG	6	1973	1/1	0.91	0.31	51,51,51,51	0
85	MG	5	3785	1/1	0.91	0.34	57,57,57,57	0
86	OHX	1	4095	7/7	0.91	0.25	55,55,55,55	5
86	OHX	2	2120	7/7	0.91	0.46	87,87,87,87	3
85	MG	5	3535	1/1	0.91	0.49	36,36,36,36	0
85	MG	1	3512	1/1	0.91	0.68	31,31,31,31	0
85	MG	6	1927	1/1	0.91	0.30	63,63,63,63	0
85	MG	1	3709	1/1	0.91	0.20	48,48,48,48	0
85	MG	1	3595	1/1	0.91	0.30	78,78,78,78	0
85	MG	5	3794	1/1	0.91	0.20	45,45,45,45	0
85	MG	1	3644	1/1	0.91	0.28	52,52,52,52	0
85	MG	N8	203	1/1	0.91	0.31	30,30,30,30	0
86	OHX	1	4111	7/7	0.91	0.17	104,104,104,104	7

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	3	217	7/7	0.91	0.36	78,78,78,78	4
85	MG	5	3707	1/1	0.91	0.40	64,64,64,64	0
85	MG	5	3553	1/1	0.91	0.54	26,26,26,26	0
85	MG	3	207	1/1	0.91	0.33	66,66,66,66	0
85	MG	1	3645	1/1	0.91	0.27	51,51,51,51	0
85	MG	5	3558	1/1	0.91	0.53	31,31,31,31	0
85	MG	6	1943	1/1	0.91	0.55	70,70,70,70	0
85	MG	5	3572	1/1	0.91	0.44	21,21,21,21	0
86	OHX	2	2147	7/7	0.91	0.23	116,116,116,116	6
86	OHX	6	2103	7/7	0.91	0.27	67,67,67,67	4
86	OHX	6	2114	7/7	0.91	0.24	66,66,66,66	3
86	OHX	6	2118	7/7	0.91	0.36	89,89,89,89	5
86	OHX	6	2121	7/7	0.91	0.23	86,86,86,86	5
85	MG	5	3719	1/1	0.91	0.33	63,63,63,63	1
86	OHX	8	218	7/7	0.91	0.36	63,63,63,63	4
86	OHX	6	2133	7/7	0.91	0.32	125,125,125,125	6
85	MG	1	3596	1/1	0.91	0.34	46,46,46,46	0
86	OHX	6	2136	7/7	0.91	0.30	62,62,62,62	4
85	MG	7	201	1/1	0.91	0.54	41,41,41,41	0
85	MG	1	3516	1/1	0.91	0.62	33,33,33,33	0
86	OHX	6	2143	7/7	0.91	0.35	51,51,51,51	3
86	OHX	1	3949	7/7	0.92	0.43	111,111,111,111	7
86	OHX	6	2145	7/7	0.92	0.21	92,92,92,92	4
86	OHX	1	3952	7/7	0.92	0.16	140,140,140,140	5
85	MG	5	3748	1/1	0.92	0.06	124,124,124,124	0
85	MG	5	3569	1/1	0.92	0.59	38,38,38,38	0
85	MG	2	1922	1/1	0.92	0.56	85,85,85,85	0
85	MG	m5	301	1/1	0.92	0.97	56,56,56,56	0
85	MG	1	3532	1/1	0.92	0.33	42,42,42,42	0
86	OHX	6	2159	7/7	0.92	0.22	93,93,93,93	5
86	OHX	1	4000	7/7	0.92	0.43	55,55,55,55	3
85	MG	m5	303	1/1	0.92	0.25	67,67,67,67	0
86	OHX	1	4014	7/7	0.92	0.28	60,60,60,60	3
86	OHX	6	2166	7/7	0.92	0.26	66,66,66,66	4
85	MG	6	1941	1/1	0.92	0.53	57,57,57,57	0
85	MG	2	1956	1/1	0.92	0.85	70,70,70,70	0
85	MG	1	3704	1/1	0.92	0.41	59,59,59,59	0
85	MG	o2	201	1/1	0.92	0.64	35,35,35,35	1
85	MG	1	3418	1/1	0.92	0.56	47,47,47,47	0
85	MG	o4	201	1/1	0.92	0.28	53,53,53,53	0
86	OHX	6	2174	7/7	0.92	0.32	92,92,92,92	6
85	MG	f	1001	1/1	0.92	0.33	53,53,53,53	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	4038	7/7	0.92	0.34	56,56,56,56	4
85	MG	5	3589	1/1	0.92	0.57	28,28,28,28	0
85	MG	M7	204	1/1	0.92	0.45	46,46,46,46	0
86	OHX	1	4047	7/7	0.92	0.16	101,101,101,101	5
85	MG	6	1948	1/1	0.92	0.30	85,85,85,85	0
86	OHX	2	2043	7/7	0.92	0.25	100,100,100,100	4
85	MG	1	3574	1/1	0.92	0.97	30,30,30,30	0
85	MG	5	3465	1/1	0.92	0.81	44,44,44,44	0
86	OHX	2	2065	7/7	0.92	0.20	106,106,106,106	5
85	MG	2	1905	1/1	0.92	0.93	63,63,63,63	0
86	OHX	2	2076	7/7	0.92	0.26	87,87,87,87	5
85	MG	1	3669	1/1	0.92	0.15	59,59,59,59	0
85	MG	1	3757	1/1	0.92	0.44	55,55,55,55	0
86	OHX	5	3942	7/7	0.92	0.29	50,50,50,50	5
86	OHX	1	4068	7/7	0.92	0.28	39,39,39,39	3
86	OHX	5	3971	7/7	0.92	0.31	41,41,41,41	7
86	OHX	5	3988	7/7	0.92	0.20	64,64,64,64	5
85	MG	1	3670	1/1	0.92	0.38	38,38,38,38	0
85	MG	1	3759	1/1	0.92	0.31	48,48,48,48	0
86	OHX	2	2103	7/7	0.92	0.34	118,118,118,118	4
86	OHX	1	4074	7/7	0.92	0.43	38,38,38,38	3
85	MG	1	3537	1/1	0.92	0.42	57,57,57,57	0
86	OHX	5	4046	7/7	0.92	0.19	53,53,53,53	5
85	MG	1	4112	1/1	0.92	0.23	44,44,44,44	0
85	MG	6	1964	1/1	0.92	0.21	82,82,82,82	0
86	OHX	5	4050	7/7	0.92	0.30	45,45,45,45	3
85	MG	1	3408	1/1	0.92	0.46	25,25,25,25	0
85	MG	5	3618	1/1	0.92	0.50	34,34,34,34	0
85	MG	5	3787	1/1	0.92	0.30	33,33,33,33	0
86	OHX	5	4075	7/7	0.92	0.23	47,47,47,47	3
86	OHX	1	4082	7/7	0.92	0.23	63,63,63,63	5
86	OHX	1	4083	7/7	0.92	0.20	45,45,45,45	4
85	MG	1	3462	1/1	0.92	0.74	44,44,44,44	0
85	MG	2	1977	1/1	0.92	0.97	72,72,72,72	0
85	MG	6	1908	1/1	0.92	0.15	109,109,109,109	0
86	OHX	1	4092	7/7	0.92	0.26	47,47,47,47	3
85	MG	1	3646	1/1	0.92	0.25	39,39,39,39	0
85	MG	5	3494	1/1	0.92	0.42	45,45,45,45	0
85	MG	1	3725	1/1	0.92	0.31	38,38,38,38	0
86	OHX	5	4115	7/7	0.92	0.21	63,63,63,63	6
85	MG	6	1911	1/1	0.92	0.51	49,49,49,49	0
86	OHX	2	2129	7/7	0.92	0.24	87,87,87,87	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3678	1/1	0.92	0.44	53,53,53,53	0
85	MG	5	3417	1/1	0.92	0.63	64,64,64,64	0
85	MG	5	3506	1/1	0.92	0.73	27,27,27,27	0
86	OHX	1	4103	7/7	0.92	0.24	53,53,53,53	5
86	OHX	5	4126	7/7	0.92	0.21	98,98,98,98	3
85	MG	1	3485	1/1	0.92	0.27	58,58,58,58	0
86	OHX	5	4128	7/7	0.92	0.23	47,47,47,47	4
85	MG	1	3649	1/1	0.92	0.42	37,37,37,37	0
86	OHX	5	4131	7/7	0.92	0.20	64,64,64,64	5
85	MG	6	1981	1/1	0.92	0.60	54,54,54,54	0
86	OHX	2	2139	7/7	0.92	0.19	114,114,114,114	6
86	OHX	1	4110	7/7	0.92	0.24	55,55,55,55	5
85	MG	1	3620	1/1	0.92	0.34	32,32,32,32	0
85	MG	2	1952	1/1	0.92	0.42	64,64,64,64	0
85	MG	1	3598	1/1	0.92	0.34	39,39,39,39	0
85	MG	5	3540	1/1	0.92	0.33	62,62,62,62	0
85	MG	4	207	1/1	0.92	0.25	41,41,41,41	0
85	MG	6	1921	1/1	0.92	0.45	66,66,66,66	0
86	OHX	2	2148	7/7	0.92	0.24	69,69,69,69	6
85	MG	1	3599	1/1	0.92	0.49	32,32,32,32	0
85	MG	6	1924	1/1	0.92	0.53	48,48,48,48	0
86	OHX	5	4150	7/7	0.92	0.20	62,62,62,62	5
86	OHX	O4	202	7/7	0.92	0.21	82,82,82,82	5
85	MG	2	1941	1/1	0.92	0.13	100,100,100,100	0
86	OHX	6	2071	7/7	0.92	0.38	58,58,58,58	4
86	OHX	6	2080	7/7	0.92	0.41	82,82,82,82	1
86	OHX	6	2086	7/7	0.92	0.27	70,70,70,70	5
86	OHX	6	2087	7/7	0.92	0.26	109,109,109,109	6
86	OHX	6	2088	7/7	0.92	0.28	99,99,99,99	3
85	MG	5	3729	1/1	0.92	0.19	47,47,47,47	0
86	OHX	6	2110	7/7	0.92	0.30	112,112,112,112	6
85	MG	1	3526	1/1	0.92	0.48	45,45,45,45	0
85	MG	5	3445	1/1	0.92	0.43	38,38,38,38	0
86	OHX	6	2120	7/7	0.92	0.20	70,70,70,70	3
85	MG	1	3659	1/1	0.92	0.78	78,78,78,78	0
86	OHX	6	2125	7/7	0.92	0.29	52,52,52,52	5
85	MG	L2	301	1/1	0.92	0.24	37,37,37,37	0
86	OHX	6	2131	7/7	0.92	0.31	89,89,89,89	6
86	OHX	8	223	7/7	0.92	0.28	75,75,75,75	5
85	MG	1	3528	1/1	0.92	0.53	47,47,47,47	0
85	MG	8	210	1/1	0.92	0.19	48,48,48,48	0
85	MG	l2	302	1/1	0.92	0.48	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	l5	302	7/7	0.92	0.12	105,105,105,105	4
86	OHX	l9	201	7/7	0.92	0.29	61,61,61,61	2
85	MG	l3	401	1/1	0.92	0.50	27,27,27,27	0
86	OHX	m7	204	7/7	0.92	0.32	47,47,47,47	5
86	OHX	m9	201	7/7	0.92	0.22	61,61,61,61	6
86	OHX	o6	201	7/7	0.92	0.22	68,68,68,68	4
86	OHX	6	2140	7/7	0.92	0.29	74,74,74,74	6
85	MG	L7	301	1/1	0.92	0.28	38,38,38,38	0
85	MG	4	202	1/1	0.93	0.17	64,64,64,64	0
86	OHX	1	4037	7/7	0.93	0.34	84,84,84,84	7
86	OHX	6	2165	7/7	0.93	0.34	74,74,74,74	6
85	MG	1	3563	1/1	0.93	0.27	41,41,41,41	0
86	OHX	2	2068	7/7	0.93	0.21	103,103,103,103	7
86	OHX	1	4041	7/7	0.93	0.23	46,46,46,46	4
85	MG	1	3686	1/1	0.93	0.69	35,35,35,35	0
86	OHX	1	4046	7/7	0.93	0.41	50,50,50,50	2
86	OHX	2	2074	7/7	0.93	0.25	85,85,85,85	3
85	MG	1	3687	1/1	0.93	0.38	46,46,46,46	0
85	MG	5	3407	1/1	0.93	0.54	35,35,35,35	0
86	OHX	2	2086	7/7	0.93	0.22	112,112,112,112	5
85	MG	1	3688	1/1	0.93	0.77	39,39,39,39	0
86	OHX	2	2093	7/7	0.93	0.24	110,110,110,110	5
85	MG	1	3421	1/1	0.93	0.20	58,58,58,58	0
85	MG	1	3450	1/1	0.93	0.43	31,31,31,31	0
85	MG	1	3632	1/1	0.93	0.70	47,47,47,47	0
85	MG	4	213	1/1	0.93	0.40	64,64,64,64	0
85	MG	1	3602	1/1	0.93	0.35	58,58,58,58	0
85	MG	5	3692	1/1	0.93	0.32	38,38,38,38	0
86	OHX	s8	303	7/7	0.93	0.23	105,105,105,105	3
86	OHX	c3	201	7/7	0.93	0.25	84,84,84,84	4
85	MG	1	3405	1/1	0.93	0.57	132,132,132,132	0
85	MG	1	3696	1/1	0.93	0.63	30,30,30,30	0
85	MG	5	3495	1/1	0.93	0.39	33,33,33,33	0
86	OHX	2	2113	7/7	0.93	0.11	152,152,152,152	7
85	MG	1	3635	1/1	0.93	0.30	88,88,88,88	0
86	OHX	2	2116	7/7	0.93	0.15	127,127,127,127	7
85	MG	5	3798	1/1	0.93	0.39	42,42,42,42	0
85	MG	1	3498	1/1	0.93	0.66	45,45,45,45	0
85	MG	6	1926	1/1	0.93	0.22	65,65,65,65	0
86	OHX	5	3993	7/7	0.93	0.30	38,38,38,38	4
86	OHX	5	4006	7/7	0.93	0.45	109,109,109,109	5
86	OHX	1	4081	7/7	0.93	0.23	43,43,43,43	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3664	1/1	0.93	0.30	39,39,39,39	0
85	MG	1	3570	1/1	0.93	0.52	46,46,46,46	0
86	OHX	5	4026	7/7	0.93	0.29	54,54,54,54	4
85	MG	5	3510	1/1	0.93	0.61	39,39,39,39	0
86	OHX	5	4040	7/7	0.93	0.34	149,149,149,149	6
86	OHX	1	4088	7/7	0.93	0.20	92,92,92,92	7
86	OHX	2	2127	7/7	0.93	0.13	128,128,128,128	7
85	MG	M0	302	1/1	0.93	0.23	50,50,50,50	0
85	MG	5	3517	1/1	0.93	0.41	28,28,28,28	0
85	MG	5	3431	1/1	0.93	0.39	41,41,41,41	0
86	OHX	5	4051	7/7	0.93	0.21	64,64,64,64	6
85	MG	1	3703	1/1	0.93	0.44	40,40,40,40	0
86	OHX	5	4055	7/7	0.93	0.28	56,56,56,56	4
85	MG	5	3435	1/1	0.93	0.32	33,33,33,33	0
85	MG	M6	204	1/1	0.93	0.50	37,37,37,37	0
86	OHX	5	4069	7/7	0.93	0.23	58,58,58,58	5
86	OHX	1	4097	7/7	0.93	0.19	42,42,42,42	6
85	MG	5	3529	1/1	0.93	0.57	45,45,45,45	0
85	MG	5	3532	1/1	0.93	0.62	35,35,35,35	0
86	OHX	5	4083	7/7	0.93	0.28	53,53,53,53	3
86	OHX	1	4100	7/7	0.93	0.25	38,38,38,38	3
86	OHX	2	2140	7/7	0.93	0.28	85,85,85,85	5
85	MG	1	3436	1/1	0.93	0.84	39,39,39,39	0
85	MG	1	3503	1/1	0.93	0.54	37,37,37,37	0
85	MG	5	3440	1/1	0.93	0.38	36,36,36,36	0
86	OHX	5	4099	7/7	0.93	0.24	73,73,73,73	5
86	OHX	5	4100	7/7	0.93	0.33	46,46,46,46	5
86	OHX	5	4104	7/7	0.93	0.36	68,68,68,68	6
85	MG	5	3442	1/1	0.93	0.27	32,32,32,32	0
86	OHX	5	4106	7/7	0.93	0.31	32,32,32,32	4
85	MG	5	3642	1/1	0.93	0.47	39,39,39,39	0
86	OHX	5	4110	7/7	0.93	0.13	133,133,133,133	5
86	OHX	2	2146	7/7	0.93	0.19	87,87,87,87	7
85	MG	8	205	1/1	0.93	0.32	43,43,43,43	0
85	MG	6	1938	1/1	0.93	0.28	60,60,60,60	0
85	MG	1	3611	1/1	0.93	0.27	41,41,41,41	0
85	MG	5	3731	1/1	0.93	0.44	55,55,55,55	0
85	MG	6	1942	1/1	0.93	0.41	43,43,43,43	0
85	MG	2	1914	1/1	0.93	0.27	83,83,83,83	0
85	MG	1	3576	1/1	0.93	0.48	46,46,46,46	0
86	OHX	S8	301	7/7	0.93	0.12	115,115,115,115	7
86	OHX	M7	205	7/7	0.93	0.19	57,57,57,57	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	C3	201	7/7	0.93	0.26	100,100,100,100	5
85	MG	5	3742	1/1	0.93	0.33	31,31,31,31	1
85	MG	l5	301	1/1	0.93	0.15	63,63,63,63	0
85	MG	1	3440	1/1	0.93	0.48	49,49,49,49	0
86	OHX	5	4134	7/7	0.93	0.10	157,157,157,157	7
86	OHX	5	4135	7/7	0.93	0.23	54,54,54,54	4
86	OHX	6	2051	7/7	0.93	0.36	131,131,131,131	5
85	MG	1	3413	1/1	0.93	0.56	41,41,41,41	0
85	MG	5	3655	1/1	0.93	0.30	42,42,42,42	0
86	OHX	5	4140	7/7	0.93	0.14	88,88,88,88	7
85	MG	1	3429	1/1	0.93	0.28	36,36,36,36	0
85	MG	5	3561	1/1	0.93	0.65	26,26,26,26	0
85	MG	1	3430	1/1	0.93	0.17	57,57,57,57	0
86	OHX	6	2102	7/7	0.93	0.36	97,97,97,97	4
85	MG	1	3718	1/1	0.93	0.60	52,52,52,52	0
86	OHX	6	2107	7/7	0.93	0.27	81,81,81,81	5
85	MG	n3	201	1/1	0.93	0.43	25,25,25,25	0
85	MG	1	3545	1/1	0.93	0.37	31,31,31,31	0
86	OHX	5	4151	7/7	0.93	0.25	53,53,53,53	4
85	MG	n8	201	1/1	0.93	0.31	37,37,37,37	0
86	OHX	1	3966	7/7	0.93	0.28	35,35,35,35	3
86	OHX	5	4155	7/7	0.93	0.14	97,97,97,97	7
86	OHX	5	4156	7/7	0.93	0.20	49,49,49,49	6
85	MG	6	1903	1/1	0.93	0.17	88,88,88,88	0
86	OHX	6	2123	7/7	0.93	0.22	70,70,70,70	4
86	OHX	1	3974	7/7	0.93	0.22	63,63,63,63	5
85	MG	1	3721	1/1	0.93	0.42	43,43,43,43	0
86	OHX	1	3979	7/7	0.93	0.09	197,197,197,197	5
85	MG	1	3448	1/1	0.93	0.88	49,49,49,49	0
86	OHX	6	2134	7/7	0.93	0.12	163,163,163,163	7
86	OHX	1	3995	7/7	0.93	0.58	50,50,50,50	2
86	OHX	1	3999	7/7	0.93	0.06	215,215,215,215	2
86	OHX	5	4168	7/7	0.93	0.29	64,64,64,64	5
85	MG	6	1906	1/1	0.93	0.34	76,76,76,76	0
86	OHX	6	2138	7/7	0.93	0.22	120,120,120,120	7
85	MG	1	3465	1/1	0.93	0.68	28,28,28,28	0
86	OHX	7	223	7/7	0.93	0.34	54,54,54,54	4
86	OHX	1	4013	7/7	0.93	0.36	54,54,54,54	3
85	MG	1	3525	1/1	0.93	0.68	35,35,35,35	0
86	OHX	1	4016	7/7	0.93	0.32	56,56,56,56	3
85	MG	5	3592	1/1	0.93	0.47	35,35,35,35	0
85	MG	5	3772	1/1	0.93	0.16	37,37,37,37	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	4022	7/7	0.93	0.22	71,71,71,71	6
86	OHX	8	231	7/7	0.93	0.29	62,62,62,62	5
86	OHX	l3	404	7/7	0.93	0.15	72,72,72,72	4
85	MG	5	3594	1/1	0.93	0.66	35,35,35,35	0
86	OHX	6	2153	7/7	0.93	0.30	67,67,67,67	3
86	OHX	6	2156	7/7	0.93	0.09	150,150,150,150	5
85	MG	5	3595	1/1	0.93	0.51	28,28,28,28	0
86	OHX	2	2050	7/7	0.93	0.22	129,129,129,129	6
86	OHX	2	2054	7/7	0.93	0.26	103,103,103,103	5
86	OHX	o7	502	7/7	0.93	0.27	83,83,83,83	4
86	OHX	1	4031	7/7	0.93	0.20	65,65,65,65	6
86	OHX	6	2162	7/7	0.93	0.38	114,114,114,114	5
86	OHX	1	3912	7/7	0.94	0.18	126,126,126,126	4
86	OHX	1	3914	7/7	0.94	0.23	79,79,79,79	3
85	MG	1	3728	1/1	0.94	0.53	47,47,47,47	0
85	MG	6	1994	1/1	0.94	0.71	49,49,49,49	0
86	OHX	1	3927	7/7	0.94	0.37	51,51,51,51	3
85	MG	1	3493	1/1	0.94	0.72	42,42,42,42	0
86	OHX	1	3945	7/7	0.94	0.27	57,57,57,57	5
85	MG	1	3730	1/1	0.94	0.15	36,36,36,36	0
86	OHX	6	2147	7/7	0.94	0.24	64,64,64,64	4
85	MG	5	3579	1/1	0.94	0.40	17,17,17,17	0
85	MG	1	3731	1/1	0.94	0.47	57,57,57,57	0
85	MG	8	204	1/1	0.94	0.83	44,44,44,44	0
86	OHX	1	3964	7/7	0.94	0.18	71,71,71,71	4
86	OHX	6	2154	7/7	0.94	0.27	49,49,49,49	3
86	OHX	6	2155	7/7	0.94	0.38	71,71,71,71	3
86	OHX	1	3965	7/7	0.94	0.35	56,56,56,56	3
85	MG	5	3585	1/1	0.94	0.58	35,35,35,35	0
86	OHX	1	3967	7/7	0.94	0.16	82,82,82,82	3
85	MG	5	3586	1/1	0.94	0.46	29,29,29,29	0
85	MG	6	1999	1/1	0.94	0.72	36,36,36,36	0
85	MG	5	3590	1/1	0.94	0.51	35,35,35,35	0
85	MG	6	2000	1/1	0.94	0.86	48,48,48,48	0
86	OHX	1	3980	7/7	0.94	0.33	51,51,51,51	1
85	MG	5	3457	1/1	0.94	0.27	38,38,38,38	0
86	OHX	1	3986	7/7	0.94	0.21	76,76,76,76	3
86	OHX	1	3990	7/7	0.94	0.15	92,92,92,92	6
85	MG	5	3705	1/1	0.94	0.17	66,66,66,66	0
85	MG	1	3732	1/1	0.94	0.38	35,35,35,35	0
85	MG	5	3596	1/1	0.94	0.24	47,47,47,47	0
86	OHX	1	4004	7/7	0.94	0.35	75,75,75,75	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3683	1/1	0.94	0.14	39,39,39,39	1
85	MG	1	3647	1/1	0.94	0.52	64,64,64,64	0
85	MG	5	3710	1/1	0.94	0.37	55,55,55,55	0
85	MG	5	3711	1/1	0.94	0.48	32,32,32,32	0
86	OHX	1	4017	7/7	0.94	0.28	46,46,46,46	2
86	OHX	1	4018	7/7	0.94	0.23	69,69,69,69	3
85	MG	6	2006	1/1	0.94	0.66	67,67,67,67	0
85	MG	1	3495	1/1	0.94	0.83	34,34,34,34	0
85	MG	1	3497	1/1	0.94	0.83	25,25,25,25	0
85	MG	6	1939	1/1	0.94	0.34	34,34,34,34	0
85	MG	SM	301	1/1	0.94	0.21	58,58,58,58	0
86	OHX	1	4027	7/7	0.94	0.27	75,75,75,75	3
86	OHX	s9	201	7/7	0.94	0.20	71,71,71,71	5
86	OHX	1	4028	7/7	0.94	0.20	58,58,58,58	3
85	MG	M5	302	1/1	0.94	0.74	47,47,47,47	0
85	MG	M6	201	1/1	0.94	0.16	34,34,34,34	0
85	MG	5	3471	1/1	0.94	0.24	51,51,51,51	0
86	OHX	d9	102	7/7	0.94	0.27	106,106,106,106	6
86	OHX	5	3917	7/7	0.94	0.35	49,49,49,49	3
85	MG	5	3472	1/1	0.94	0.38	39,39,39,39	0
86	OHX	5	3932	7/7	0.94	0.26	139,139,139,139	5
86	OHX	5	3936	7/7	0.94	0.22	49,49,49,49	3
86	OHX	1	4033	7/7	0.94	0.18	66,66,66,66	5
86	OHX	1	4036	7/7	0.94	0.13	83,83,83,83	6
85	MG	1	3578	1/1	0.94	0.30	60,60,60,60	0
85	MG	q2	201	1/1	0.94	0.51	43,43,43,43	1
86	OHX	5	3975	7/7	0.94	0.44	85,85,85,85	3
85	MG	2	1913	1/1	0.94	0.35	79,79,79,79	0
86	OHX	5	3989	7/7	0.94	0.22	158,158,158,158	5
86	OHX	5	3991	7/7	0.94	0.40	37,37,37,37	3
85	MG	C	102	1/1	0.94	0.59	39,39,39,39	0
86	OHX	1	4042	7/7	0.94	0.14	70,70,70,70	5
86	OHX	5	4008	7/7	0.94	0.29	66,66,66,66	3
85	MG	1	3654	1/1	0.94	0.45	39,39,39,39	0
85	MG	1	3404	1/1	0.94	0.55	57,57,57,57	0
85	MG	d3	201	1/1	0.94	0.34	50,50,50,50	0
86	OHX	5	4024	7/7	0.94	0.22	66,66,66,66	5
85	MG	5	3736	1/1	0.94	0.73	35,35,35,35	1
86	OHX	5	4031	7/7	0.94	0.24	85,85,85,85	4
86	OHX	5	4033	7/7	0.94	0.15	98,98,98,98	7
86	OHX	2	2044	7/7	0.94	0.18	98,98,98,98	6
86	OHX	5	4037	7/7	0.94	0.18	93,93,93,93	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	4052	7/7	0.94	0.37	58,58,58,58	4
86	OHX	1	4055	7/7	0.94	0.28	81,81,81,81	5
86	OHX	2	2045	7/7	0.94	0.25	95,95,95,95	4
85	MG	5	3737	1/1	0.94	0.61	40,40,40,40	0
85	MG	1	3749	1/1	0.94	0.56	17,17,17,17	0
85	MG	5	3740	1/1	0.94	0.33	45,45,45,45	0
86	OHX	2	2057	7/7	0.94	0.29	79,79,79,79	1
86	OHX	5	4053	7/7	0.94	0.19	65,65,65,65	5
86	OHX	2	2059	7/7	0.94	0.25	101,101,101,101	4
85	MG	1	3694	1/1	0.94	0.21	46,46,46,46	0
86	OHX	5	4057	7/7	0.94	0.26	50,50,50,50	2
86	OHX	5	4058	7/7	0.94	0.25	36,36,36,36	6
86	OHX	5	4059	7/7	0.94	0.24	47,47,47,47	3
85	MG	1	3621	1/1	0.94	0.41	52,52,52,52	0
85	MG	1	3542	1/1	0.94	0.42	50,50,50,50	0
85	MG	5	3493	1/1	0.94	0.71	42,42,42,42	0
86	OHX	1	4072	7/7	0.94	0.30	47,47,47,47	3
86	OHX	5	4076	7/7	0.94	0.19	43,43,43,43	3
85	MG	5	3747	1/1	0.94	0.66	51,51,51,51	0
86	OHX	5	4079	7/7	0.94	0.29	54,54,54,54	5
86	OHX	5	4080	7/7	0.94	0.28	55,55,55,55	3
86	OHX	5	4081	7/7	0.94	0.42	35,35,35,35	3
85	MG	1	3445	1/1	0.94	0.78	57,57,57,57	0
85	MG	6	1959	1/1	0.94	0.36	98,98,98,98	0
85	MG	5	3751	1/1	0.94	0.73	53,53,53,53	0
85	MG	5	3752	1/1	0.94	0.34	40,40,40,40	0
85	MG	5	3498	1/1	0.94	0.53	32,32,32,32	0
86	OHX	2	2096	7/7	0.94	0.18	108,108,108,108	6
86	OHX	5	4097	7/7	0.94	0.19	75,75,75,75	6
85	MG	1	3699	1/1	0.94	0.27	49,49,49,49	0
85	MG	1	3624	1/1	0.94	0.35	33,33,33,33	0
85	MG	1	3594	1/1	0.94	0.46	48,48,48,48	0
86	OHX	5	4102	7/7	0.94	0.21	45,45,45,45	5
85	MG	5	3758	1/1	0.94	0.31	36,36,36,36	0
86	OHX	1	4084	7/7	0.94	0.23	42,42,42,42	5
85	MG	1	3628	1/1	0.94	0.62	41,41,41,41	0
85	MG	5	3505	1/1	0.94	0.83	25,25,25,25	0
85	MG	1	3411	1/1	0.94	0.55	43,43,43,43	0
86	OHX	5	4112	7/7	0.94	0.20	51,51,51,51	6
85	MG	5	3507	1/1	0.94	0.40	38,38,38,38	0
86	OHX	1	4091	7/7	0.94	0.36	42,42,42,42	4
86	OHX	5	4117	7/7	0.94	0.30	40,40,40,40	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3765	1/1	0.94	0.14	39,39,39,39	0
85	MG	1	3510	1/1	0.94	0.31	39,39,39,39	0
85	MG	5	3511	1/1	0.94	0.26	43,43,43,43	0
86	OHX	2	2115	7/7	0.94	0.22	91,91,91,91	6
86	OHX	5	4124	7/7	0.94	0.31	51,51,51,51	6
85	MG	5	3514	1/1	0.94	0.57	35,35,35,35	0
85	MG	5	3415	1/1	0.94	0.29	44,44,44,44	0
86	OHX	2	2118	7/7	0.94	0.15	143,143,143,143	7
86	OHX	2	2119	7/7	0.94	0.35	62,62,62,62	3
85	MG	5	3516	1/1	0.94	0.56	21,21,21,21	0
85	MG	5	3416	1/1	0.94	0.63	31,31,31,31	0
85	MG	2	1954	1/1	0.94	0.27	105,105,105,105	0
85	MG	5	3520	1/1	0.94	0.40	30,30,30,30	0
85	MG	1	3515	1/1	0.94	0.39	28,28,28,28	0
86	OHX	1	4105	7/7	0.94	0.27	46,46,46,46	5
86	OHX	2	2126	7/7	0.94	0.48	64,64,64,64	4
85	MG	5	3419	1/1	0.94	0.23	36,36,36,36	0
85	MG	1	3482	1/1	0.94	0.49	33,33,33,33	0
86	OHX	1	4109	7/7	0.94	0.20	48,48,48,48	4
85	MG	1	3559	1/1	0.94	0.49	22,22,22,22	0
86	OHX	2	2131	7/7	0.94	0.11	109,109,109,109	5
85	MG	1	3562	1/1	0.94	0.91	33,33,33,33	0
86	OHX	3	218	7/7	0.94	0.30	54,54,54,54	5
85	MG	1	3712	1/1	0.94	0.51	44,44,44,44	0
85	MG	1	3671	1/1	0.94	0.50	47,47,47,47	0
85	MG	5	3542	1/1	0.94	0.64	46,46,46,46	0
86	OHX	4	233	7/7	0.94	0.24	65,65,65,65	5
85	MG	5	3665	1/1	0.94	0.26	43,43,43,43	0
86	OHX	5	4152	7/7	0.94	0.30	76,76,76,76	5
86	OHX	M0	303	7/7	0.94	0.39	55,55,55,55	4
85	MG	6	1912	1/1	0.94	0.69	39,39,39,39	0
85	MG	5	3430	1/1	0.94	0.34	36,36,36,36	0
86	OHX	M8	201	7/7	0.94	0.25	47,47,47,47	3
85	MG	1	3464	1/1	0.94	0.52	38,38,38,38	0
85	MG	5	3793	1/1	0.94	0.68	37,37,37,37	0
85	MG	2	1962	1/1	0.94	0.35	88,88,88,88	0
85	MG	5	3671	1/1	0.94	0.27	84,84,84,84	0
85	MG	5	3433	1/1	0.94	0.33	37,37,37,37	0
86	OHX	6	2065	7/7	0.94	0.18	138,138,138,138	5
86	OHX	5	4163	7/7	0.94	0.31	36,36,36,36	4
86	OHX	6	2066	7/7	0.94	0.16	162,162,162,162	3
85	MG	2	1924	1/1	0.94	0.61	100,100,100,100	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	2077	7/7	0.94	0.24	98,98,98,98	5
85	MG	1	3468	1/1	0.94	0.72	39,39,39,39	0
85	MG	5	3675	1/1	0.94	0.46	34,34,34,34	1
85	MG	1	3676	1/1	0.94	0.24	52,52,52,52	0
85	MG	1	3490	1/1	0.94	0.66	34,34,34,34	0
85	MG	5	3557	1/1	0.94	0.78	29,29,29,29	0
85	MG	5	3810	1/1	0.94	0.32	50,50,50,50	0
86	OHX	6	2104	7/7	0.94	0.17	91,91,91,91	5
85	MG	1	3610	1/1	0.94	0.41	45,45,45,45	0
86	OHX	8	226	7/7	0.94	0.29	47,47,47,47	3
85	MG	1	3469	1/1	0.94	0.56	41,41,41,41	0
86	OHX	6	2111	7/7	0.94	0.22	73,73,73,73	5
85	MG	4	208	1/1	0.94	0.45	37,37,37,37	0
86	OHX	1	3825	7/7	0.94	0.28	91,91,91,91	5
86	OHX	1	3849	7/7	0.94	0.28	48,48,48,48	5
85	MG	4	209	1/1	0.94	0.39	51,51,51,51	0
85	MG	5	3571	1/1	0.94	0.53	34,34,34,34	0
85	MG	7	202	1/1	0.94	0.78	19,19,19,19	0
86	OHX	6	2127	7/7	0.94	0.36	58,58,58,58	5
85	MG	7	204	1/1	0.94	0.70	44,44,44,44	0
86	OHX	1	3893	7/7	0.94	0.17	155,155,155,155	6
85	MG	1	3424	1/1	0.94	0.48	59,59,59,59	0
86	OHX	1	3904	7/7	0.94	0.44	59,59,59,59	3
86	OHX	1	3908	7/7	0.94	0.19	91,91,91,91	3
87	ZN	e1	501	1/1	0.94	0.04	173,173,173,173	0
89	PRO	1	4114	7/8	0.94	0.20	41,41,51,51	0
85	MG	6	1940	1/1	0.95	0.51	36,36,36,36	0
85	MG	5	3688	1/1	0.95	0.18	47,47,47,47	0
85	MG	5	3428	1/1	0.95	0.53	45,45,45,45	0
86	OHX	2	2106	7/7	0.95	0.38	78,78,78,78	3
85	MG	5	3429	1/1	0.95	0.41	31,31,31,31	0
85	MG	5	3607	1/1	0.95	0.25	36,36,36,36	0
86	OHX	1	4045	7/7	0.95	0.32	54,54,54,54	1
86	OHX	2	2110	7/7	0.95	0.15	112,112,112,112	5
85	MG	2	1961	1/1	0.95	0.52	86,86,86,86	0
86	OHX	6	2180	7/7	0.95	0.14	97,97,97,97	6
85	MG	5	3609	1/1	0.95	0.18	35,35,35,35	0
85	MG	1	3496	1/1	0.95	0.49	41,41,41,41	0
85	MG	5	3611	1/1	0.95	0.39	38,38,38,38	0
86	OHX	1	4053	7/7	0.95	0.18	43,43,43,43	3
86	OHX	s4	602	7/7	0.95	0.20	76,76,76,76	3
86	OHX	1	4054	7/7	0.95	0.21	77,77,77,77	6

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3527	1/1	0.95	0.67	31,31,31,31	0
86	OHX	1	4057	7/7	0.95	0.10	109,109,109,109	5
85	MG	1	3446	1/1	0.95	0.41	41,41,41,41	0
85	MG	5	3614	1/1	0.95	0.58	41,41,41,41	0
86	OHX	c8	203	7/7	0.95	0.22	99,99,99,99	5
85	MG	5	3699	1/1	0.95	0.33	39,39,39,39	0
85	MG	5	3508	1/1	0.95	0.73	31,31,31,31	0
86	OHX	sR	401	7/7	0.95	0.13	129,129,129,129	6
86	OHX	5	3869	7/7	0.95	0.32	35,35,35,35	4
86	OHX	5	3889	7/7	0.95	0.46	42,42,42,42	3
85	MG	5	3701	1/1	0.95	0.34	38,38,38,38	0
86	OHX	5	3919	7/7	0.95	0.29	73,73,73,73	3
86	OHX	5	3922	7/7	0.95	0.14	119,119,119,119	6
86	OHX	2	2121	7/7	0.95	0.58	94,94,94,94	4
85	MG	5	3808	1/1	0.95	0.24	36,36,36,36	0
85	MG	6	1997	1/1	0.95	0.42	53,53,53,53	0
85	MG	5	3617	1/1	0.95	0.83	35,35,35,35	0
85	MG	6	1945	1/1	0.95	0.54	51,51,51,51	0
86	OHX	1	4071	7/7	0.95	0.30	42,42,42,42	3
86	OHX	5	3949	7/7	0.95	0.22	56,56,56,56	4
86	OHX	5	3950	7/7	0.95	0.20	95,95,95,95	4
86	OHX	5	3957	7/7	0.95	0.39	46,46,46,46	3
86	OHX	5	3963	7/7	0.95	0.30	62,62,62,62	5
86	OHX	5	3970	7/7	0.95	0.22	80,80,80,80	3
85	MG	1	3432	1/1	0.95	0.37	49,49,49,49	0
86	OHX	5	3974	7/7	0.95	0.29	53,53,53,53	4
85	MG	1	3735	1/1	0.95	0.35	49,49,49,49	0
86	OHX	5	3978	7/7	0.95	0.18	69,69,69,69	4
86	OHX	5	3982	7/7	0.95	0.20	58,58,58,58	3
86	OHX	5	3983	7/7	0.95	0.35	46,46,46,46	3
86	OHX	2	2128	7/7	0.95	0.11	115,115,115,115	7
85	MG	1	3736	1/1	0.95	0.12	50,50,50,50	0
85	MG	5	3441	1/1	0.95	0.47	30,30,30,30	0
85	MG	6	1949	1/1	0.95	0.25	77,77,77,77	0
86	OHX	5	3995	7/7	0.95	0.24	88,88,88,88	5
86	OHX	5	4005	7/7	0.95	0.20	82,82,82,82	3
85	MG	1	3698	1/1	0.95	0.24	42,42,42,42	0
85	MG	1	3481	1/1	0.95	0.36	40,40,40,40	0
85	MG	6	1952	1/1	0.95	0.65	53,53,53,53	0
86	OHX	5	4012	7/7	0.95	0.26	41,41,41,41	4
85	MG	2	1915	1/1	0.95	0.69	57,57,57,57	0
86	OHX	5	4016	7/7	0.95	0.19	62,62,62,62	7

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3524	1/1	0.95	0.15	48,48,48,48	0
85	MG	5	3720	1/1	0.95	0.42	34,34,34,34	0
85	MG	1	3504	1/1	0.95	0.65	42,42,42,42	0
85	MG	8	202	1/1	0.95	0.31	42,42,42,42	0
86	OHX	5	4032	7/7	0.95	0.19	71,71,71,71	4
86	OHX	1	4086	7/7	0.95	0.16	65,65,65,65	4
86	OHX	1	4087	7/7	0.95	0.24	44,44,44,44	6
86	OHX	5	4036	7/7	0.95	0.31	38,38,38,38	5
85	MG	5	3722	1/1	0.95	0.66	41,41,41,41	0
85	MG	2	1926	1/1	0.95	0.30	76,76,76,76	0
85	MG	5	3724	1/1	0.95	0.36	35,35,35,35	0
85	MG	6	1957	1/1	0.95	0.14	94,94,94,94	0
85	MG	5	3452	1/1	0.95	0.40	29,29,29,29	0
85	MG	5	3636	1/1	0.95	0.52	43,43,43,43	0
86	OHX	5	4049	7/7	0.95	0.24	37,37,37,37	3
85	MG	1	3744	1/1	0.95	0.33	44,44,44,44	0
85	MG	1	3536	1/1	0.95	0.59	29,29,29,29	0
85	MG	5	3544	1/1	0.95	0.63	48,48,48,48	0
85	MG	5	3733	1/1	0.95	0.12	50,50,50,50	0
85	MG	2	1937	1/1	0.95	0.47	80,80,80,80	0
85	MG	6	1962	1/1	0.95	0.13	93,93,93,93	0
85	MG	5	3547	1/1	0.95	0.38	53,53,53,53	0
86	OHX	S9	201	7/7	0.95	0.22	94,94,94,94	6
86	OHX	5	4060	7/7	0.95	0.39	45,45,45,45	5
85	MG	1	3616	1/1	0.95	0.11	58,58,58,58	0
86	OHX	D9	102	7/7	0.95	0.13	97,97,97,97	6
86	OHX	5	4063	7/7	0.95	0.33	39,39,39,39	3
86	OHX	5	4067	7/7	0.95	0.36	34,34,34,34	4
85	MG	5	3739	1/1	0.95	0.49	109,109,109,109	0
85	MG	1	3538	1/1	0.95	0.64	39,39,39,39	0
85	MG	1	3584	1/1	0.95	0.74	33,33,33,33	0
85	MG	m7	201	1/1	0.95	0.36	36,36,36,36	0
86	OHX	1	3870	7/7	0.95	0.29	67,67,67,67	3
85	MG	m7	203	1/1	0.95	0.35	34,34,34,34	0
86	OHX	1	3883	7/7	0.95	0.26	71,71,71,71	1
86	OHX	1	3886	7/7	0.95	0.23	56,56,56,56	4
86	OHX	3	213	7/7	0.95	0.19	82,82,82,82	5
86	OHX	5	4085	7/7	0.95	0.12	143,143,143,143	7
86	OHX	1	3887	7/7	0.95	0.20	131,131,131,131	5
86	OHX	1	3890	7/7	0.95	0.30	48,48,48,48	3
86	OHX	5	4089	7/7	0.95	0.26	47,47,47,47	3
86	OHX	5	4090	7/7	0.95	0.26	51,51,51,51	4

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3648	1/1	0.95	0.34	37,37,37,37	0
86	OHX	5	4092	7/7	0.95	0.45	33,33,33,33	2
86	OHX	4	222	7/7	0.95	0.19	61,61,61,61	3
86	OHX	4	226	7/7	0.95	0.18	106,106,106,106	5
85	MG	2	1988	1/1	0.95	0.15	88,88,88,88	0
86	OHX	4	230	7/7	0.95	0.23	45,45,45,45	3
86	OHX	4	231	7/7	0.95	0.22	75,75,75,75	5
85	MG	5	3745	1/1	0.95	0.48	34,34,34,34	0
85	MG	1	3470	1/1	0.95	0.63	46,46,46,46	0
85	MG	2	1971	1/1	0.95	0.20	81,81,81,81	0
86	OHX	1	3910	7/7	0.95	0.17	81,81,81,81	4
85	MG	1	3681	1/1	0.95	0.90	37,37,37,37	0
86	OHX	5	4108	7/7	0.95	0.18	66,66,66,66	3
85	MG	5	3656	1/1	0.95	0.58	41,41,41,41	0
86	OHX	5	4111	7/7	0.95	0.24	74,74,74,74	7
85	MG	1	3426	1/1	0.95	0.47	52,52,52,52	0
86	OHX	1	3919	7/7	0.95	0.13	106,106,106,106	3
86	OHX	1	3920	7/7	0.95	0.37	43,43,43,43	3
85	MG	M0	301	1/1	0.95	0.34	41,41,41,41	0
86	OHX	1	3925	7/7	0.95	0.21	96,96,96,96	5
86	OHX	6	2039	7/7	0.95	0.12	126,126,126,126	5
86	OHX	6	2043	7/7	0.95	0.31	90,90,90,90	5
85	MG	6	1975	1/1	0.95	0.21	90,90,90,90	0
86	OHX	6	2060	7/7	0.95	0.20	96,96,96,96	1
85	MG	6	1976	1/1	0.95	0.21	32,32,32,32	0
86	OHX	1	3937	7/7	0.95	0.10	110,110,110,110	6
86	OHX	1	3939	7/7	0.95	0.25	54,54,54,54	3
86	OHX	6	2072	7/7	0.95	0.29	76,76,76,76	3
86	OHX	5	4129	7/7	0.95	0.31	37,37,37,37	3
86	OHX	2	2010	7/7	0.95	0.28	101,101,101,101	4
85	MG	1	3517	1/1	0.95	0.41	46,46,46,46	0
86	OHX	6	2084	7/7	0.95	0.21	104,104,104,104	5
86	OHX	2	2026	7/7	0.95	0.22	103,103,103,103	4
86	OHX	2	2034	7/7	0.95	0.17	119,119,119,119	4
86	OHX	1	3958	7/7	0.95	0.30	45,45,45,45	4
86	OHX	6	2095	7/7	0.95	0.22	99,99,99,99	3
86	OHX	1	3960	7/7	0.95	0.20	42,42,42,42	4
85	MG	5	3474	1/1	0.95	0.31	63,63,63,63	0
85	MG	5	3478	1/1	0.95	0.83	21,21,21,21	0
86	OHX	6	2105	7/7	0.95	0.17	81,81,81,81	4
85	MG	5	3479	1/1	0.95	0.12	70,70,70,70	0
85	MG	1	3546	1/1	0.95	0.63	36,36,36,36	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	1	3518	1/1	0.95	0.67	31,31,31,31	0
86	OHX	5	4146	7/7	0.95	0.18	71,71,71,71	5
86	OHX	2	2047	7/7	0.95	0.22	80,80,80,80	4
85	MG	5	3482	1/1	0.95	0.72	37,37,37,37	0
85	MG	1	3720	1/1	0.95	0.49	48,48,48,48	0
86	OHX	2	2051	7/7	0.95	0.25	101,101,101,101	5
86	OHX	6	2122	7/7	0.95	0.34	77,77,77,77	4
86	OHX	2	2053	7/7	0.95	0.24	107,107,107,107	4
85	MG	5	3766	1/1	0.95	0.45	27,27,27,27	0
86	OHX	6	2126	7/7	0.95	0.29	53,53,53,53	3
85	MG	1	3519	1/1	0.95	0.88	49,49,49,49	0
86	OHX	1	3988	7/7	0.95	0.17	87,87,87,87	5
86	OHX	2	2058	7/7	0.95	0.33	67,67,67,67	4
86	OHX	6	2132	7/7	0.95	0.23	94,94,94,94	6
86	OHX	1	3993	7/7	0.95	0.23	94,94,94,94	7
85	MG	2	1990	1/1	0.95	0.54	49,49,49,49	0
86	OHX	1	3996	7/7	0.95	0.25	64,64,64,64	5
86	OHX	1	3997	7/7	0.95	0.23	55,55,55,55	5
86	OHX	2	2062	7/7	0.95	0.19	109,109,109,109	6
85	MG	2	1920	1/1	0.95	0.60	76,76,76,76	0
85	MG	3	201	1/1	0.95	0.17	80,80,80,80	0
86	OHX	1	4006	7/7	0.95	0.23	48,48,48,48	5
86	OHX	6	2142	7/7	0.95	0.22	95,95,95,95	7
85	MG	1	3561	1/1	0.95	0.77	22,22,22,22	0
86	OHX	1	4010	7/7	0.95	0.26	44,44,44,44	5
86	OHX	1	4011	7/7	0.95	0.16	62,62,62,62	3
86	OHX	7	222	7/7	0.95	0.41	38,38,38,38	4
86	OHX	1	4012	7/7	0.95	0.26	64,64,64,64	1
86	OHX	6	2148	7/7	0.95	0.28	54,54,54,54	3
86	OHX	8	217	7/7	0.95	0.24	78,78,78,78	5
86	OHX	2	2069	7/7	0.95	0.20	115,115,115,115	4
86	OHX	8	222	7/7	0.95	0.15	100,100,100,100	5
85	MG	5	3677	1/1	0.95	0.30	29,29,29,29	0
85	MG	5	3678	1/1	0.95	0.60	37,37,37,37	0
85	MG	5	3490	1/1	0.95	0.34	40,40,40,40	0
85	MG	6	1936	1/1	0.95	0.37	76,76,76,76	0
86	OHX	2	2081	7/7	0.95	0.21	120,120,120,120	6
86	OHX	2	2083	7/7	0.95	0.43	87,87,87,87	2
85	MG	5	3780	1/1	0.95	0.29	30,30,30,30	0
86	OHX	1	4023	7/7	0.95	0.42	73,73,73,73	3
86	OHX	l5	303	7/7	0.95	0.18	90,90,90,90	6
86	OHX	2	2088	7/7	0.95	0.18	91,91,91,91	6

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	m0	302	7/7	0.95	0.41	49,49,49,49	3
86	OHX	m0	303	7/7	0.95	0.23	96,96,96,96	5
86	OHX	2	2089	7/7	0.95	0.13	116,116,116,116	7
85	MG	5	3492	1/1	0.95	0.44	30,30,30,30	0
86	OHX	m8	201	7/7	0.95	0.31	47,47,47,47	3
85	MG	1	3494	1/1	0.95	0.44	42,42,42,42	0
85	MG	N8	202	1/1	0.95	0.95	47,47,47,47	0
86	OHX	2	2097	7/7	0.95	0.30	73,73,73,73	5
86	OHX	2	2098	7/7	0.95	0.24	111,111,111,111	6
85	MG	3	204	1/1	0.95	0.57	33,33,33,33	0
85	MG	5	3425	1/1	0.95	0.25	41,41,41,41	0
88	SPS	5	3403	23/23	0.95	0.34	35,38,52,54	23
86	OHX	2	2102	7/7	0.95	0.20	118,118,118,118	5
89	PRO	5	4173	7/8	0.95	0.16	35,35,45,45	0
86	OHX	2	2060	7/7	0.96	0.27	89,89,89,89	6
85	MG	5	3800	1/1	0.96	0.30	70,70,70,70	0
86	OHX	5	3938	7/7	0.96	0.20	50,50,50,50	3
86	OHX	1	3913	7/7	0.96	0.21	54,54,54,54	3
86	OHX	2	2063	7/7	0.96	0.10	153,153,153,153	7
86	OHX	5	3945	7/7	0.96	0.25	46,46,46,46	3
85	MG	1	3513	1/1	0.96	0.31	34,34,34,34	0
86	OHX	1	3916	7/7	0.96	0.41	54,54,54,54	4
85	MG	1	3560	1/1	0.96	0.71	46,46,46,46	0
86	OHX	5	3951	7/7	0.96	0.41	67,67,67,67	5
86	OHX	5	3952	7/7	0.96	0.12	100,100,100,100	2
86	OHX	5	3955	7/7	0.96	0.12	149,149,149,149	4
85	MG	5	3581	1/1	0.96	0.60	24,24,24,24	0
86	OHX	5	3962	7/7	0.96	0.25	47,47,47,47	4
85	MG	5	3584	1/1	0.96	0.45	27,27,27,27	0
86	OHX	5	3969	7/7	0.96	0.20	105,105,105,105	5
86	OHX	2	2070	7/7	0.96	0.10	108,108,108,108	5
85	MG	5	3805	1/1	0.96	0.25	37,37,37,37	0
86	OHX	5	3972	7/7	0.96	0.20	89,89,89,89	1
85	MG	5	3806	1/1	0.96	0.60	37,37,37,37	0
86	OHX	1	3930	7/7	0.96	0.35	118,118,118,118	2
86	OHX	5	3976	7/7	0.96	0.16	115,115,115,115	3
86	OHX	5	3977	7/7	0.96	0.23	58,58,58,58	4
86	OHX	2	2075	7/7	0.96	0.21	80,80,80,80	6
85	MG	5	3458	1/1	0.96	0.73	28,28,28,28	0
86	OHX	1	3940	7/7	0.96	0.20	77,77,77,77	5
86	OHX	5	3985	7/7	0.96	0.18	55,55,55,55	2
86	OHX	1	3942	7/7	0.96	0.12	94,94,94,94	4

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3725	1/1	0.96	0.27	51,51,51,51	0
86	OHX	1	3946	7/7	0.96	0.22	69,69,69,69	3
86	OHX	3	211	7/7	0.96	0.33	64,64,64,64	3
86	OHX	5	3994	7/7	0.96	0.25	42,42,42,42	4
86	OHX	1	3947	7/7	0.96	0.28	80,80,80,80	3
86	OHX	5	3997	7/7	0.96	0.16	62,62,62,62	5
86	OHX	5	4001	7/7	0.96	0.20	41,41,41,41	4
86	OHX	3	215	7/7	0.96	0.15	90,90,90,90	3
85	MG	5	3509	1/1	0.96	0.55	25,25,25,25	0
85	MG	5	3587	1/1	0.96	0.48	30,30,30,30	0
86	OHX	5	4009	7/7	0.96	0.37	41,41,41,41	3
86	OHX	5	4010	7/7	0.96	0.16	72,72,72,72	5
86	OHX	2	2084	7/7	0.96	0.18	95,95,95,95	5
86	OHX	2	2085	7/7	0.96	0.14	103,103,103,103	4
86	OHX	4	223	7/7	0.96	0.22	61,61,61,61	3
86	OHX	5	4015	7/7	0.96	0.25	36,36,36,36	4
86	OHX	4	225	7/7	0.96	0.25	44,44,44,44	3
85	MG	5	3812	1/1	0.96	0.40	32,32,32,32	0
86	OHX	5	4019	7/7	0.96	0.18	76,76,76,76	6
86	OHX	1	3961	7/7	0.96	0.31	45,45,45,45	5
86	OHX	2	2087	7/7	0.96	0.14	89,89,89,89	5
86	OHX	5	4028	7/7	0.96	0.25	72,72,72,72	4
85	MG	5	3588	1/1	0.96	0.66	29,29,29,29	0
85	MG	2	1980	1/1	0.96	0.12	104,104,104,104	0
85	MG	1	3597	1/1	0.96	0.37	47,47,47,47	0
85	MG	5	3591	1/1	0.96	0.39	42,42,42,42	0
86	OHX	L4	401	7/7	0.96	0.15	67,67,67,67	7
86	OHX	L5	301	7/7	0.96	0.17	88,88,88,88	6
86	OHX	5	4038	7/7	0.96	0.17	106,106,106,106	4
86	OHX	1	3968	7/7	0.96	0.26	72,72,72,72	3
86	OHX	5	4041	7/7	0.96	0.22	73,73,73,73	4
86	OHX	1	3970	7/7	0.96	0.15	68,68,68,68	1
86	OHX	5	4044	7/7	0.96	0.21	51,51,51,51	3
86	OHX	5	4045	7/7	0.96	0.43	48,48,48,48	2
85	MG	5	3513	1/1	0.96	0.36	37,37,37,37	0
86	OHX	1	3973	7/7	0.96	0.17	63,63,63,63	5
85	MG	6	1991	1/1	0.96	0.15	77,77,77,77	0
85	MG	7	203	1/1	0.96	0.51	54,54,54,54	0
86	OHX	O1	201	7/7	0.96	0.19	93,93,93,93	3
86	OHX	1	3976	7/7	0.96	0.24	41,41,41,41	4
86	OHX	1	3978	7/7	0.96	0.16	77,77,77,77	3
86	OHX	6	2029	7/7	0.96	0.23	68,68,68,68	2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3735	1/1	0.96	0.23	37,37,37,37	0
85	MG	1	3431	1/1	0.96	0.34	47,47,47,47	0
86	OHX	6	2044	7/7	0.96	0.25	46,46,46,46	2
86	OHX	1	3981	7/7	0.96	0.37	53,53,53,53	3
86	OHX	6	2057	7/7	0.96	0.22	58,58,58,58	2
85	MG	5	3666	1/1	0.96	0.46	54,54,54,54	0
86	OHX	6	2064	7/7	0.96	0.21	98,98,98,98	5
86	OHX	1	3984	7/7	0.96	0.12	127,127,127,127	7
86	OHX	5	4066	7/7	0.96	0.27	38,38,38,38	4
85	MG	7	209	1/1	0.96	0.13	54,54,54,54	0
86	OHX	1	3987	7/7	0.96	0.20	73,73,73,73	5
86	OHX	5	4070	7/7	0.96	0.20	73,73,73,73	3
86	OHX	5	4071	7/7	0.96	0.25	45,45,45,45	3
86	OHX	5	4072	7/7	0.96	0.30	40,40,40,40	4
86	OHX	5	4073	7/7	0.96	0.32	44,44,44,44	4
86	OHX	5	4074	7/7	0.96	0.17	77,77,77,77	6
85	MG	2	1981	1/1	0.96	0.40	79,79,79,79	0
86	OHX	6	2073	7/7	0.96	0.30	69,69,69,69	5
86	OHX	1	3989	7/7	0.96	0.18	94,94,94,94	5
86	OHX	6	2078	7/7	0.96	0.22	60,60,60,60	5
85	MG	2	1984	1/1	0.96	0.37	67,67,67,67	0
86	OHX	6	2083	7/7	0.96	0.23	94,94,94,94	7
85	MG	5	3466	1/1	0.96	0.43	37,37,37,37	0
85	MG	7	213	1/1	0.96	0.18	49,49,49,49	0
86	OHX	5	4084	7/7	0.96	0.27	35,35,35,35	6
86	OHX	2	2108	7/7	0.96	0.24	79,79,79,79	5
85	MG	1	3655	1/1	0.96	0.82	44,44,44,44	0
86	OHX	6	2089	7/7	0.96	0.23	56,56,56,56	4
86	OHX	6	2090	7/7	0.96	0.17	91,91,91,91	7
85	MG	1	3716	1/1	0.96	0.32	65,65,65,65	0
86	OHX	6	2098	7/7	0.96	0.23	87,87,87,87	5
86	OHX	6	2099	7/7	0.96	0.19	81,81,81,81	5
86	OHX	5	4093	7/7	0.96	0.18	55,55,55,55	6
86	OHX	5	4094	7/7	0.96	0.29	36,36,36,36	3
85	MG	5	3743	1/1	0.96	0.46	32,32,32,32	0
86	OHX	1	4002	7/7	0.96	0.34	65,65,65,65	7
86	OHX	1	4003	7/7	0.96	0.18	63,63,63,63	3
85	MG	1	3684	1/1	0.96	0.36	52,52,52,52	0
86	OHX	6	2106	7/7	0.96	0.25	85,85,85,85	4
85	MG	1	3627	1/1	0.96	0.79	41,41,41,41	0
86	OHX	5	4103	7/7	0.96	0.19	40,40,40,40	5
86	OHX	6	2108	7/7	0.96	0.15	109,109,109,109	6

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	4008	7/7	0.96	0.27	47,47,47,47	5
85	MG	2	1931	1/1	0.96	0.43	65,65,65,65	0
85	MG	5	3605	1/1	0.96	0.45	33,33,33,33	0
86	OHX	6	2115	7/7	0.96	0.18	58,58,58,58	2
86	OHX	5	4109	7/7	0.96	0.18	53,53,53,53	5
86	OHX	6	2117	7/7	0.96	0.20	65,65,65,65	3
85	MG	5	3606	1/1	0.96	0.17	39,39,39,39	1
86	OHX	6	2119	7/7	0.96	0.24	60,60,60,60	3
86	OHX	5	4113	7/7	0.96	0.27	52,52,52,52	6
86	OHX	5	4114	7/7	0.96	0.18	55,55,55,55	4
85	MG	5	3528	1/1	0.96	0.74	21,21,21,21	0
85	MG	l2	301	1/1	0.96	0.58	37,37,37,37	0
85	MG	1	3500	1/1	0.96	0.84	30,30,30,30	0
85	MG	5	3530	1/1	0.96	0.48	31,31,31,31	0
86	OHX	6	2124	7/7	0.96	0.11	103,103,103,103	6
85	MG	1	3522	1/1	0.96	0.52	31,31,31,31	0
85	MG	5	3533	1/1	0.96	0.73	28,28,28,28	0
85	MG	5	3475	1/1	0.96	0.62	51,51,51,51	0
86	OHX	1	4020	7/7	0.96	0.29	47,47,47,47	3
85	MG	1	3722	1/1	0.96	0.17	43,43,43,43	0
85	MG	M5	301	1/1	0.96	0.28	42,42,42,42	0
85	MG	1	3689	1/1	0.96	0.32	44,44,44,44	0
85	MG	1	3569	1/1	0.96	0.70	39,39,39,39	0
86	OHX	1	4025	7/7	0.96	0.22	56,56,56,56	3
85	MG	5	3761	1/1	0.96	0.19	38,38,38,38	0
85	MG	1	3541	1/1	0.96	0.64	28,28,28,28	0
85	MG	m7	202	1/1	0.96	0.57	33,33,33,33	0
85	MG	1	3401	1/1	0.96	0.34	43,43,43,43	0
86	OHX	2	2132	7/7	0.96	0.28	87,87,87,87	3
85	MG	5	3484	1/1	0.96	0.62	28,28,28,28	0
85	MG	2	1934	1/1	0.96	0.23	80,80,80,80	0
86	OHX	5	4138	7/7	0.96	0.28	44,44,44,44	5
86	OHX	6	2144	7/7	0.96	0.17	85,85,85,85	7
85	MG	M7	202	1/1	0.96	0.85	40,40,40,40	0
86	OHX	1	4035	7/7	0.96	0.15	65,65,65,65	4
85	MG	5	3550	1/1	0.96	0.84	44,44,44,44	0
85	MG	5	3624	1/1	0.96	0.33	31,31,31,31	0
85	MG	1	3609	1/1	0.96	0.50	44,44,44,44	0
86	OHX	5	4145	7/7	0.96	0.19	70,70,70,70	7
85	MG	6	1929	1/1	0.96	0.30	49,49,49,49	0
86	OHX	6	2151	7/7	0.96	0.23	65,65,65,65	4
85	MG	6	1930	1/1	0.96	0.72	45,45,45,45	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	q1	101	1/1	0.96	0.28	50,50,50,50	0
85	MG	1	3439	1/1	0.96	0.35	60,60,60,60	0
85	MG	q3	502	1/1	0.96	0.53	48,48,48,48	0
85	MG	1	3414	1/1	0.96	0.72	43,43,43,43	0
85	MG	N3	201	1/1	0.96	0.63	36,36,36,36	0
86	OHX	2	1999	7/7	0.96	0.16	113,113,113,113	2
86	OHX	2	2004	7/7	0.96	0.12	135,135,135,135	5
86	OHX	2	2007	7/7	0.96	0.20	94,94,94,94	5
85	MG	5	3779	1/1	0.96	0.61	35,35,35,35	0
85	MG	2	1947	1/1	0.96	0.19	76,76,76,76	0
86	OHX	2	2020	7/7	0.96	0.13	117,117,117,117	3
86	OHX	1	4056	7/7	0.96	0.15	85,85,85,85	5
86	OHX	S1	301	7/7	0.96	0.17	121,121,121,121	2
86	OHX	2	2022	7/7	0.96	0.34	78,78,78,78	4
86	OHX	1	4059	7/7	0.96	0.29	72,72,72,72	4
85	MG	1	3734	1/1	0.96	0.58	35,35,35,35	1
86	OHX	6	2170	7/7	0.96	0.15	83,83,83,83	7
86	OHX	2	2027	7/7	0.96	0.26	75,75,75,75	4
86	OHX	5	4167	7/7	0.96	0.29	38,38,38,38	3
85	MG	5	3564	1/1	0.96	0.67	27,27,27,27	0
86	OHX	C5	201	7/7	0.96	0.10	122,122,122,122	7
85	MG	5	3565	1/1	0.96	0.34	32,32,32,32	0
86	OHX	SR	401	7/7	0.96	0.10	144,144,144,144	6
86	OHX	7	221	7/7	0.96	0.29	50,50,50,50	4
86	OHX	1	3821	7/7	0.96	0.28	66,66,66,66	5
85	MG	1	3640	1/1	0.96	0.44	62,62,62,62	0
85	MG	1	3547	1/1	0.96	0.91	32,32,32,32	0
86	OHX	1	3853	7/7	0.96	0.33	54,54,54,54	3
85	MG	2	1968	1/1	0.96	0.15	101,101,101,101	0
86	OHX	8	219	7/7	0.96	0.22	80,80,80,80	2
86	OHX	1	3859	7/7	0.96	0.28	53,53,53,53	2
86	OHX	1	3862	7/7	0.96	0.19	83,83,83,83	3
86	OHX	8	224	7/7	0.96	0.14	95,95,95,95	7
85	MG	5	3639	1/1	0.96	0.30	36,36,36,36	0
86	OHX	2	2046	7/7	0.96	0.20	83,83,83,83	7
85	MG	1	3553	1/1	0.96	0.55	24,24,24,24	0
85	MG	1	3554	1/1	0.96	0.37	37,37,37,37	0
85	MG	2	1944	1/1	0.96	0.13	102,102,102,102	0
85	MG	5	3576	1/1	0.96	0.47	28,28,28,28	0
85	MG	1	3530	1/1	0.96	0.61	41,41,41,41	0
85	MG	5	3717	1/1	0.96	0.67	16,16,16,16	0
86	OHX	1	3892	7/7	0.96	0.22	65,65,65,65	3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	2	2055	7/7	0.96	0.16	63,63,63,63	5
86	OHX	1	3897	7/7	0.96	0.31	49,49,49,49	5
86	OHX	1	3898	7/7	0.96	0.21	89,89,89,89	5
86	OHX	m4	201	7/7	0.96	0.63	108,108,108,108	7
85	MG	5	3718	1/1	0.96	0.52	26,26,26,26	1
86	OHX	5	3871	7/7	0.96	0.24	72,72,72,72	2
86	OHX	5	3876	7/7	0.96	0.34	43,43,43,43	3
86	OHX	1	3900	7/7	0.96	0.24	57,57,57,57	3
86	OHX	5	3914	7/7	0.96	0.22	74,74,74,74	4
86	OHX	5	3916	7/7	0.96	0.32	77,77,77,77	3
85	MG	5	3797	1/1	0.96	0.36	39,39,39,39	0
86	OHX	1	3906	7/7	0.96	0.31	65,65,65,65	4
86	OHX	1	3907	7/7	0.96	0.24	71,71,71,71	3
85	MG	5	3578	1/1	0.96	0.44	35,35,35,35	0
86	OHX	5	3928	7/7	0.96	0.13	146,146,146,146	3
89	PRO	B	101	7/8	0.96	0.24	32,32,56,56	0
85	MG	1	3451	1/1	0.97	0.46	53,53,53,53	0
85	MG	1	3564	1/1	0.97	0.40	30,30,30,30	0
86	OHX	3	210	7/7	0.97	0.33	51,51,51,51	5
85	MG	1	3651	1/1	0.97	0.25	49,49,49,49	0
86	OHX	3	212	7/7	0.97	0.25	86,86,86,86	3
86	OHX	2	2100	7/7	0.97	0.14	83,83,83,83	4
86	OHX	3	214	7/7	0.97	0.23	83,83,83,83	4
86	OHX	1	3950	7/7	0.97	0.17	41,41,41,41	4
86	OHX	5	3964	7/7	0.97	0.10	107,107,107,107	2
86	OHX	5	3965	7/7	0.97	0.20	49,49,49,49	4
86	OHX	5	3966	7/7	0.97	0.23	50,50,50,50	4
86	OHX	5	3967	7/7	0.97	0.23	49,49,49,49	5
86	OHX	3	216	7/7	0.97	0.20	49,49,49,49	5
86	OHX	1	3951	7/7	0.97	0.15	159,159,159,159	7
85	MG	l3	402	1/1	0.97	0.45	39,39,39,39	1
86	OHX	1	3954	7/7	0.97	0.22	122,122,122,122	3
86	OHX	4	220	7/7	0.97	0.19	81,81,81,81	2
86	OHX	4	221	7/7	0.97	0.17	84,84,84,84	3
85	MG	5	3619	1/1	0.97	0.32	47,47,47,47	0
86	OHX	1	3956	7/7	0.97	0.16	57,57,57,57	5
86	OHX	4	224	7/7	0.97	0.17	86,86,86,86	3
86	OHX	1	3957	7/7	0.97	0.26	49,49,49,49	5
85	MG	5	3551	1/1	0.97	0.45	32,32,32,32	0
86	OHX	5	3984	7/7	0.97	0.27	56,56,56,56	4
86	OHX	4	227	7/7	0.97	0.14	103,103,103,103	6
86	OHX	5	3986	7/7	0.97	0.27	58,58,58,58	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	2	1983	1/1	0.97	0.17	84,84,84,84	0
85	MG	5	3764	1/1	0.97	0.28	43,43,43,43	0
86	OHX	5	3990	7/7	0.97	0.23	44,44,44,44	4
86	OHX	1	3962	7/7	0.97	0.35	59,59,59,59	2
86	OHX	5	3992	7/7	0.97	0.17	80,80,80,80	5
85	MG	m0	301	1/1	0.97	0.44	33,33,33,33	0
85	MG	6	1934	1/1	0.97	0.35	43,43,43,43	0
86	OHX	L3	403	7/7	0.97	0.15	72,72,72,72	5
85	MG	1	3477	1/1	0.97	0.61	41,41,41,41	0
86	OHX	5	3999	7/7	0.97	0.29	38,38,38,38	5
85	MG	1	3511	1/1	0.97	0.51	36,36,36,36	0
86	OHX	5	4002	7/7	0.97	0.19	70,70,70,70	4
86	OHX	5	4003	7/7	0.97	0.18	54,54,54,54	3
85	MG	5	3556	1/1	0.97	0.38	33,33,33,33	0
85	MG	6	1977	1/1	0.97	0.12	57,57,57,57	0
85	MG	5	3497	1/1	0.97	0.45	36,36,36,36	0
85	MG	1	3454	1/1	0.97	0.90	31,31,31,31	0
86	OHX	1	3972	7/7	0.97	0.21	55,55,55,55	4
85	MG	1	3715	1/1	0.97	0.48	46,46,46,46	0
85	MG	1	3455	1/1	0.97	0.52	29,29,29,29	0
85	MG	5	3776	1/1	0.97	0.10	75,75,75,75	0
86	OHX	5	4014	7/7	0.97	0.18	48,48,48,48	3
85	MG	1	3514	1/1	0.97	0.43	35,35,35,35	0
86	OHX	O7	104	7/7	0.97	0.19	78,78,78,78	4
86	OHX	1	3977	7/7	0.97	0.15	72,72,72,72	7
86	OHX	6	2020	7/7	0.97	0.22	100,100,100,100	4
86	OHX	5	4023	7/7	0.97	0.23	39,39,39,39	2
86	OHX	6	2025	7/7	0.97	0.33	62,62,62,62	2
86	OHX	5	4025	7/7	0.97	0.29	50,50,50,50	2
85	MG	5	3566	1/1	0.97	0.67	31,31,31,31	0
86	OHX	5	4027	7/7	0.97	0.18	49,49,49,49	3
85	MG	5	3704	1/1	0.97	0.69	2,2,2,2	0
86	OHX	5	4029	7/7	0.97	0.13	76,76,76,76	4
86	OHX	5	4030	7/7	0.97	0.15	70,70,70,70	5
85	MG	5	3567	1/1	0.97	0.39	37,37,37,37	0
85	MG	5	3568	1/1	0.97	0.63	22,22,22,22	0
86	OHX	6	2045	7/7	0.97	0.23	91,91,91,91	5
86	OHX	6	2050	7/7	0.97	0.18	87,87,87,87	5
86	OHX	5	4035	7/7	0.97	0.28	40,40,40,40	3
86	OHX	1	3982	7/7	0.97	0.20	47,47,47,47	5
86	OHX	6	2053	7/7	0.97	0.17	92,92,92,92	5
85	MG	1	3550	1/1	0.97	0.67	33,33,33,33	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	4039	7/7	0.97	0.19	72,72,72,72	4
85	MG	5	3504	1/1	0.97	0.53	28,28,28,28	0
86	OHX	6	2061	7/7	0.97	0.24	86,86,86,86	4
86	OHX	5	4042	7/7	0.97	0.32	43,43,43,43	3
86	OHX	6	2062	7/7	0.97	0.14	117,117,117,117	4
86	OHX	1	3985	7/7	0.97	0.38	38,38,38,38	2
85	MG	1	3631	1/1	0.97	0.23	42,42,42,42	0
85	MG	5	3455	1/1	0.97	0.55	31,31,31,31	0
86	OHX	6	2069	7/7	0.97	0.17	73,73,73,73	4
85	MG	1	3531	1/1	0.97	0.58	40,40,40,40	0
86	OHX	2	1996	7/7	0.97	0.24	101,101,101,101	5
86	OHX	2	1998	7/7	0.97	0.20	116,116,116,116	2
86	OHX	6	2074	7/7	0.97	0.15	70,70,70,70	2
86	OHX	1	3991	7/7	0.97	0.26	57,57,57,57	3
86	OHX	1	3992	7/7	0.97	0.28	52,52,52,52	3
85	MG	L2	302	1/1	0.97	0.29	41,41,41,41	0
86	OHX	5	4056	7/7	0.97	0.22	40,40,40,40	6
86	OHX	6	2081	7/7	0.97	0.18	74,74,74,74	6
86	OHX	6	2082	7/7	0.97	0.15	99,99,99,99	5
86	OHX	1	3994	7/7	0.97	0.23	54,54,54,54	5
86	OHX	2	2002	7/7	0.97	0.24	101,101,101,101	3
85	MG	1	3552	1/1	0.97	0.74	37,37,37,37	0
86	OHX	2	2005	7/7	0.97	0.17	99,99,99,99	3
86	OHX	1	3998	7/7	0.97	0.28	107,107,107,107	4
86	OHX	5	4064	7/7	0.97	0.33	52,52,52,52	3
85	MG	5	3459	1/1	0.97	0.47	34,34,34,34	0
85	MG	1	3606	1/1	0.97	0.21	43,43,43,43	0
86	OHX	6	2091	7/7	0.97	0.25	83,83,83,83	3
86	OHX	6	2092	7/7	0.97	0.25	69,69,69,69	4
86	OHX	6	2093	7/7	0.97	0.21	45,45,45,45	2
86	OHX	1	4001	7/7	0.97	0.15	61,61,61,61	4
86	OHX	6	2096	7/7	0.97	0.14	94,94,94,94	5
86	OHX	6	2097	7/7	0.97	0.54	49,49,49,49	1
85	MG	5	3716	1/1	0.97	0.33	34,34,34,34	0
86	OHX	2	2136	7/7	0.97	0.20	74,74,74,74	6
86	OHX	5	4077	7/7	0.97	0.36	32,32,32,32	3
86	OHX	2	2017	7/7	0.97	0.36	74,74,74,74	4
86	OHX	1	4005	7/7	0.97	0.34	40,40,40,40	4
86	OHX	2	2019	7/7	0.97	0.23	81,81,81,81	3
85	MG	5	3512	1/1	0.97	0.58	28,28,28,28	0
86	OHX	2	2021	7/7	0.97	0.18	99,99,99,99	5
85	MG	1	3427	1/1	0.97	0.87	42,42,42,42	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	2	2023	7/7	0.97	0.11	106,106,106,106	4
86	OHX	2	2024	7/7	0.97	0.23	100,100,100,100	6
86	OHX	2	2025	7/7	0.97	0.20	79,79,79,79	5
86	OHX	6	2112	7/7	0.97	0.27	66,66,66,66	4
86	OHX	6	2113	7/7	0.97	0.26	67,67,67,67	3
85	MG	1	3724	1/1	0.97	0.34	55,55,55,55	0
86	OHX	1	4015	7/7	0.97	0.27	47,47,47,47	2
85	MG	5	3796	1/1	0.97	0.44	42,42,42,42	0
86	OHX	2	2029	7/7	0.97	0.13	98,98,98,98	5
86	OHX	2	2030	7/7	0.97	0.20	98,98,98,98	5
86	OHX	2	2032	7/7	0.97	0.20	102,102,102,102	6
86	OHX	5	4096	7/7	0.97	0.12	119,119,119,119	7
85	MG	5	3582	1/1	0.97	0.56	31,31,31,31	0
85	MG	2	1928	1/1	0.97	0.34	71,71,71,71	0
85	MG	5	3799	1/1	0.97	0.42	42,42,42,42	0
86	OHX	2	2037	7/7	0.97	0.25	73,73,73,73	4
86	OHX	2	2041	7/7	0.97	0.09	141,141,141,141	6
85	MG	1	3555	1/1	0.97	0.61	26,26,26,26	0
85	MG	5	3653	1/1	0.97	0.27	47,47,47,47	0
86	OHX	6	2128	7/7	0.97	0.36	53,53,53,53	4
85	MG	5	3654	1/1	0.97	0.56	31,31,31,31	0
85	MG	6	1916	1/1	0.97	0.61	66,66,66,66	0
86	OHX	C8	201	7/7	0.97	0.19	111,111,111,111	4
85	MG	1	3580	1/1	0.97	0.69	35,35,35,35	0
85	MG	5	3657	1/1	0.97	0.53	33,33,33,33	0
86	OHX	1	3787	7/7	0.97	0.21	72,72,72,72	3
86	OHX	1	3807	7/7	0.97	0.33	73,73,73,73	2
86	OHX	1	4034	7/7	0.97	0.28	75,75,75,75	3
86	OHX	1	3820	7/7	0.97	0.37	47,47,47,47	4
86	OHX	6	2139	7/7	0.97	0.21	86,86,86,86	3
85	MG	1	3581	1/1	0.97	0.81	29,29,29,29	0
85	MG	1	3583	1/1	0.97	0.64	31,31,31,31	0
86	OHX	5	4118	7/7	0.97	0.27	49,49,49,49	4
86	OHX	1	3829	7/7	0.97	0.23	59,59,59,59	2
86	OHX	5	4120	7/7	0.97	0.21	64,64,64,64	5
86	OHX	1	3832	7/7	0.97	0.20	80,80,80,80	3
86	OHX	1	4040	7/7	0.97	0.27	52,52,52,52	4
86	OHX	1	3834	7/7	0.97	0.26	62,62,62,62	3
86	OHX	1	3841	7/7	0.97	0.21	70,70,70,70	3
86	OHX	1	3845	7/7	0.97	0.15	123,123,123,123	3
86	OHX	1	3848	7/7	0.97	0.21	76,76,76,76	3
86	OHX	2	2052	7/7	0.97	0.15	90,90,90,90	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
85	MG	5	3660	1/1	0.97	0.58	46,46,46,46	0
86	OHX	1	3855	7/7	0.97	0.29	87,87,87,87	3
86	OHX	1	4049	7/7	0.97	0.15	61,61,61,61	5
85	MG	1	3447	1/1	0.97	0.48	51,51,51,51	0
86	OHX	1	4051	7/7	0.97	0.18	58,58,58,58	3
86	OHX	1	3858	7/7	0.97	0.14	98,98,98,98	4
85	MG	5	3732	1/1	0.97	0.32	30,30,30,30	0
85	MG	1	3585	1/1	0.97	0.81	20,20,20,20	0
86	OHX	1	3866	7/7	0.97	0.19	69,69,69,69	3
85	MG	6	1922	1/1	0.97	0.19	55,55,55,55	0
86	OHX	6	2160	7/7	0.97	0.19	69,69,69,69	5
85	MG	5	3525	1/1	0.97	0.64	31,31,31,31	0
85	MG	5	3526	1/1	0.97	0.46	29,29,29,29	0
86	OHX	1	3874	7/7	0.97	0.26	50,50,50,50	3
86	OHX	1	3875	7/7	0.97	0.52	53,53,53,53	3
86	OHX	1	3877	7/7	0.97	0.12	95,95,95,95	2
86	OHX	1	3879	7/7	0.97	0.36	44,44,44,44	2
86	OHX	1	4064	7/7	0.97	0.38	39,39,39,39	3
85	MG	5	3527	1/1	0.97	0.42	32,32,32,32	0
86	OHX	1	3884	7/7	0.97	0.20	74,74,74,74	4
85	MG	1	3441	1/1	0.97	0.41	52,52,52,52	0
85	MG	1	3587	1/1	0.97	0.61	35,35,35,35	0
85	MG	5	3427	1/1	0.97	0.51	40,40,40,40	0
86	OHX	2	2066	7/7	0.97	0.12	160,160,160,160	7
86	OHX	2	2067	7/7	0.97	0.17	132,132,132,132	4
85	MG	1	3472	1/1	0.97	0.39	42,42,42,42	0
86	OHX	1	3895	7/7	0.97	0.16	57,57,57,57	4
85	MG	7	205	1/1	0.97	0.53	26,26,26,26	0
85	MG	1	3502	1/1	0.97	0.90	30,30,30,30	0
85	MG	5	3534	1/1	0.97	0.54	25,25,25,25	0
86	OHX	2	2073	7/7	0.97	0.20	63,63,63,63	6
86	OHX	1	3902	7/7	0.97	0.25	53,53,53,53	3
85	MG	6	2003	1/1	0.97	0.12	96,96,96,96	0
86	OHX	1	3905	7/7	0.97	0.23	57,57,57,57	1
85	MG	5	3536	1/1	0.97	0.81	29,29,29,29	0
85	MG	5	3537	1/1	0.97	0.62	26,26,26,26	0
85	MG	5	3538	1/1	0.97	0.65	32,32,32,32	0
86	OHX	2	2078	7/7	0.97	0.14	115,115,115,115	7
86	OHX	1	3911	7/7	0.97	0.22	61,61,61,61	3
86	OHX	2	2080	7/7	0.97	0.13	91,91,91,91	4
85	MG	5	3539	1/1	0.97	0.54	33,33,33,33	0
86	OHX	2	2082	7/7	0.97	0.15	90,90,90,90	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	4170	7/7	0.97	0.33	71,71,71,71	3
85	MG	5	3749	1/1	0.97	0.56	30,30,30,30	0
85	MG	2	1982	1/1	0.97	0.76	46,46,46,46	0
86	OHX	7	216	7/7	0.97	0.34	62,62,62,62	3
86	OHX	7	220	7/7	0.97	0.36	73,73,73,73	1
85	MG	1	3738	1/1	0.97	0.29	41,41,41,41	0
86	OHX	5	3866	7/7	0.97	0.25	60,60,60,60	3
85	MG	6	1966	1/1	0.97	0.43	56,56,56,56	0
85	MG	5	3753	1/1	0.97	0.62	30,30,30,30	0
86	OHX	5	3872	7/7	0.97	0.27	82,82,82,82	3
86	OHX	5	3874	7/7	0.97	0.23	62,62,62,62	3
85	MG	8	206	1/1	0.97	0.30	47,47,47,47	0
86	OHX	8	221	7/7	0.97	0.25	62,62,62,62	3
86	OHX	5	3882	7/7	0.97	0.19	89,89,89,89	3
85	MG	1	3412	1/1	0.97	0.21	68,68,68,68	0
86	OHX	5	3890	7/7	0.97	0.20	69,69,69,69	3
86	OHX	8	225	7/7	0.97	0.24	40,40,40,40	3
86	OHX	5	3891	7/7	0.97	0.26	66,66,66,66	4
86	OHX	8	227	7/7	0.97	0.20	59,59,59,59	3
86	OHX	5	3895	7/7	0.97	0.22	63,63,63,63	3
86	OHX	5	3900	7/7	0.97	0.26	52,52,52,52	3
86	OHX	5	3902	7/7	0.97	0.22	72,72,72,72	3
86	OHX	5	3909	7/7	0.97	0.19	77,77,77,77	4
86	OHX	5	3910	7/7	0.97	0.27	57,57,57,57	3
86	OHX	l4	402	7/7	0.97	0.20	69,69,69,69	5
86	OHX	l4	403	7/7	0.97	0.13	51,51,51,51	7
86	OHX	2	2091	7/7	0.97	0.23	89,89,89,89	5
86	OHX	5	3915	7/7	0.97	0.27	39,39,39,39	4
86	OHX	1	3929	7/7	0.97	0.19	53,53,53,53	4
85	MG	6	1968	1/1	0.97	0.25	48,48,48,48	0
86	OHX	1	3932	7/7	0.97	0.24	57,57,57,57	5
86	OHX	1	3933	7/7	0.97	0.14	91,91,91,91	4
86	OHX	5	3924	7/7	0.97	0.29	43,43,43,43	5
86	OHX	1	3934	7/7	0.97	0.19	54,54,54,54	3
86	OHX	1	3935	7/7	0.97	0.15	71,71,71,71	2
86	OHX	1	3936	7/7	0.97	0.34	54,54,54,54	3
86	OHX	n3	202	7/7	0.97	0.20	60,60,60,60	3
85	MG	5	3437	1/1	0.97	0.29	34,34,34,34	0
86	OHX	1	3938	7/7	0.97	0.23	53,53,53,53	3
86	OHX	5	3939	7/7	0.97	0.17	92,92,92,92	2
87	ZN	E1	501	1/1	0.97	0.05	145,145,145,145	0
86	OHX	5	3940	7/7	0.97	0.25	62,62,62,62	2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	2	2094	7/7	0.97	0.19	87,87,87,87	5
87	ZN	q2	202	1/1	0.97	0.07	71,71,71,71	0
88	SPS	1	4113	23/23	0.97	0.21	39,42,55,58	0
86	OHX	2	2095	7/7	0.97	0.28	75,75,75,75	5
86	OHX	5	3943	7/7	0.97	0.27	44,44,44,44	2
86	OHX	1	3941	7/7	0.97	0.16	51,51,51,51	3
85	MG	6	1969	1/1	0.97	0.42	55,55,55,55	0
89	PRO	C	101	7/8	0.97	0.24	29,29,51,51	0
86	OHX	6	2076	7/7	0.98	0.18	52,52,52,52	5
86	OHX	2	2042	7/7	0.98	0.18	68,68,68,68	5
85	MG	5	3473	1/1	0.98	0.51	30,30,30,30	0
86	OHX	6	2079	7/7	0.98	0.22	51,51,51,51	3
85	MG	1	3548	1/1	0.98	0.65	30,30,30,30	0
85	MG	1	3484	1/1	0.98	0.12	52,52,52,52	0
85	MG	5	3476	1/1	0.98	0.29	42,42,42,42	0
85	MG	5	3477	1/1	0.98	0.41	27,27,27,27	0
86	OHX	1	3903	7/7	0.98	0.20	53,53,53,53	3
86	OHX	2	2048	7/7	0.98	0.12	141,141,141,141	5
85	MG	5	3644	1/1	0.98	0.52	34,34,34,34	0
86	OHX	5	3996	7/7	0.98	0.24	52,52,52,52	3
85	MG	5	3443	1/1	0.98	0.59	44,44,44,44	0
86	OHX	5	3998	7/7	0.98	0.18	43,43,43,43	5
86	OHX	1	4043	7/7	0.98	0.29	39,39,39,39	2
85	MG	1	3579	1/1	0.98	0.57	35,35,35,35	0
85	MG	5	3601	1/1	0.98	0.72	26,26,26,26	0
86	OHX	1	3909	7/7	0.98	0.33	73,73,73,73	4
86	OHX	5	4004	7/7	0.98	0.15	55,55,55,55	2
85	MG	2	1935	1/1	0.98	0.29	70,70,70,70	0
86	OHX	6	2094	7/7	0.98	0.15	109,109,109,109	6
86	OHX	5	4007	7/7	0.98	0.23	40,40,40,40	3
85	MG	1	3479	1/1	0.98	0.31	45,45,45,45	0
85	MG	5	3519	1/1	0.98	0.64	35,35,35,35	0
86	OHX	2	2056	7/7	0.98	0.25	99,99,99,99	4
85	MG	5	3559	1/1	0.98	0.60	22,22,22,22	0
85	MG	5	3652	1/1	0.98	0.43	35,35,35,35	0
86	OHX	6	2101	7/7	0.98	0.18	62,62,62,62	2
85	MG	5	3447	1/1	0.98	0.38	31,31,31,31	0
86	OHX	1	3917	7/7	0.98	0.21	54,54,54,54	4
86	OHX	1	3918	7/7	0.98	0.15	91,91,91,91	5
85	MG	5	3562	1/1	0.98	0.31	27,27,27,27	0
86	OHX	5	4018	7/7	0.98	0.25	48,48,48,48	4
86	OHX	2	2061	7/7	0.98	0.20	88,88,88,88	5

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	4020	7/7	0.98	0.39	47,47,47,47	1
86	OHX	5	4021	7/7	0.98	0.21	36,36,36,36	2
86	OHX	5	4022	7/7	0.98	0.24	37,37,37,37	1
86	OHX	1	3921	7/7	0.98	0.14	82,82,82,82	3
86	OHX	1	3922	7/7	0.98	0.21	82,82,82,82	3
86	OHX	6	2109	7/7	0.98	0.12	99,99,99,99	6
86	OHX	1	4060	7/7	0.98	0.27	65,65,65,65	4
86	OHX	1	3923	7/7	0.98	0.23	40,40,40,40	3
85	MG	5	3703	1/1	0.98	0.09	58,58,58,58	0
85	MG	1	3582	1/1	0.98	0.76	27,27,27,27	0
86	OHX	1	3926	7/7	0.98	0.18	57,57,57,57	4
85	MG	1	3488	1/1	0.98	0.55	37,37,37,37	0
86	OHX	6	2116	7/7	0.98	0.23	61,61,61,61	2
85	MG	1	3705	1/1	0.98	0.45	33,33,33,33	0
85	MG	1	3706	1/1	0.98	0.23	38,38,38,38	0
85	MG	4	210	1/1	0.98	0.51	63,63,63,63	0
86	OHX	1	3931	7/7	0.98	0.21	43,43,43,43	4
85	MG	1	3507	1/1	0.98	0.74	30,30,30,30	0
85	MG	5	3811	1/1	0.98	0.16	30,30,30,30	0
85	MG	1	3438	1/1	0.98	0.34	33,33,33,33	0
86	OHX	2	2071	7/7	0.98	0.20	72,72,72,72	6
85	MG	5	3570	1/1	0.98	0.43	29,29,29,29	0
85	MG	B	102	1/1	0.98	0.53	38,38,38,38	0
85	MG	1	3625	1/1	0.98	0.38	41,41,41,41	0
86	OHX	2	1993	7/7	0.98	0.22	96,96,96,96	2
86	OHX	6	2129	7/7	0.98	0.30	58,58,58,58	5
85	MG	1	3556	1/1	0.98	0.40	29,29,29,29	0
85	MG	1	3435	1/1	0.98	0.88	25,25,25,25	0
85	MG	5	3531	1/1	0.98	0.23	55,55,55,55	0
86	OHX	1	3943	7/7	0.98	0.12	97,97,97,97	6
86	OHX	1	3944	7/7	0.98	0.23	48,48,48,48	4
86	OHX	2	2079	7/7	0.98	0.31	82,82,82,82	3
86	OHX	5	4052	7/7	0.98	0.17	67,67,67,67	5
86	OHX	2	2000	7/7	0.98	0.20	105,105,105,105	3
85	MG	1	3668	1/1	0.98	0.25	38,38,38,38	1
86	OHX	1	3948	7/7	0.98	0.21	37,37,37,37	2
85	MG	6	1901	1/1	0.98	0.56	52,52,52,52	0
85	MG	6	1956	1/1	0.98	0.39	44,44,44,44	0
86	OHX	2	2006	7/7	0.98	0.14	93,93,93,93	3
85	MG	5	3768	1/1	0.98	0.38	34,34,34,34	0
86	OHX	1	3953	7/7	0.98	0.26	58,58,58,58	2
86	OHX	1	3791	7/7	0.98	0.30	41,41,41,41	2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3792	7/7	0.98	0.23	74,74,74,74	3
86	OHX	1	3793	7/7	0.98	0.26	68,68,68,68	4
86	OHX	1	3795	7/7	0.98	0.16	85,85,85,85	2
86	OHX	1	3796	7/7	0.98	0.28	57,57,57,57	4
86	OHX	1	3959	7/7	0.98	0.24	112,112,112,112	3
86	OHX	2	2008	7/7	0.98	0.22	89,89,89,89	5
86	OHX	1	3808	7/7	0.98	0.24	74,74,74,74	3
86	OHX	1	3809	7/7	0.98	0.18	80,80,80,80	2
86	OHX	1	3810	7/7	0.98	0.29	62,62,62,62	3
86	OHX	1	3811	7/7	0.98	0.29	79,79,79,79	2
86	OHX	1	3812	7/7	0.98	0.16	88,88,88,88	3
86	OHX	1	3813	7/7	0.98	0.24	52,52,52,52	2
86	OHX	1	3814	7/7	0.98	0.21	76,76,76,76	3
86	OHX	1	3815	7/7	0.98	0.25	85,85,85,85	3
86	OHX	1	3969	7/7	0.98	0.18	65,65,65,65	4
86	OHX	1	3816	7/7	0.98	0.28	62,62,62,62	5
86	OHX	1	3817	7/7	0.98	0.19	109,109,109,109	5
86	OHX	1	3819	7/7	0.98	0.28	81,81,81,81	3
86	OHX	2	2009	7/7	0.98	0.19	89,89,89,89	4
85	MG	7	206	1/1	0.98	0.42	34,34,34,34	0
85	MG	1	3571	1/1	0.98	0.31	53,53,53,53	0
86	OHX	1	3826	7/7	0.98	0.19	84,84,84,84	4
86	OHX	1	3828	7/7	0.98	0.28	63,63,63,63	2
86	OHX	2	2090	7/7	0.98	0.27	94,94,94,94	6
86	OHX	5	4088	7/7	0.98	0.17	39,39,39,39	4
86	OHX	1	3830	7/7	0.98	0.20	99,99,99,99	3
86	OHX	1	3831	7/7	0.98	0.22	48,48,48,48	3
86	OHX	2	2012	7/7	0.98	0.24	87,87,87,87	3
86	OHX	1	3833	7/7	0.98	0.25	71,71,71,71	4
86	OHX	2	2013	7/7	0.98	0.16	94,94,94,94	4
86	OHX	4	217	7/7	0.98	0.25	61,61,61,61	3
86	OHX	4	218	7/7	0.98	0.23	55,55,55,55	2
86	OHX	4	219	7/7	0.98	0.25	60,60,60,60	4
86	OHX	1	3835	7/7	0.98	0.27	62,62,62,62	1
86	OHX	1	3836	7/7	0.98	0.17	98,98,98,98	3
86	OHX	1	3840	7/7	0.98	0.19	85,85,85,85	3
86	OHX	2	2014	7/7	0.98	0.11	130,130,130,130	7
86	OHX	5	4101	7/7	0.98	0.17	69,69,69,69	3
86	OHX	1	3842	7/7	0.98	0.21	80,80,80,80	3
86	OHX	1	3843	7/7	0.98	0.27	55,55,55,55	2
86	OHX	1	3844	7/7	0.98	0.13	98,98,98,98	5
86	OHX	s1	301	7/7	0.98	0.19	95,95,95,95	2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	2	2016	7/7	0.98	0.15	96,96,96,96	4
86	OHX	1	3846	7/7	0.98	0.22	119,119,119,119	3
86	OHX	4	229	7/7	0.98	0.18	60,60,60,60	3
85	MG	5	3770	1/1	0.98	0.27	47,47,47,47	0
86	OHX	2	2018	7/7	0.98	0.16	74,74,74,74	5
86	OHX	1	3850	7/7	0.98	0.27	47,47,47,47	3
86	OHX	1	3852	7/7	0.98	0.28	70,70,70,70	3
86	OHX	L3	402	7/7	0.98	0.20	59,59,59,59	4
85	MG	L3	401	1/1	0.98	0.30	41,41,41,41	0
85	MG	d2	201	1/1	0.98	0.30	59,59,59,59	0
85	MG	1	3589	1/1	0.98	0.29	40,40,40,40	0
86	OHX	5	3843	7/7	0.98	0.20	64,64,64,64	1
86	OHX	5	3846	7/7	0.98	0.26	37,37,37,37	3
86	OHX	5	3850	7/7	0.98	0.26	51,51,51,51	2
86	OHX	5	3855	7/7	0.98	0.22	71,71,71,71	3
86	OHX	5	3856	7/7	0.98	0.25	65,65,65,65	3
86	OHX	5	3858	7/7	0.98	0.22	72,72,72,72	3
86	OHX	5	3860	7/7	0.98	0.21	88,88,88,88	3
86	OHX	5	3862	7/7	0.98	0.27	47,47,47,47	2
86	OHX	5	3863	7/7	0.98	0.21	85,85,85,85	3
86	OHX	5	3865	7/7	0.98	0.17	86,86,86,86	1
86	OHX	1	3857	7/7	0.98	0.27	54,54,54,54	4
86	OHX	5	3868	7/7	0.98	0.25	74,74,74,74	2
85	MG	5	3501	1/1	0.98	0.16	42,42,42,42	0
85	MG	1	3521	1/1	0.98	0.68	43,43,43,43	0
86	OHX	M5	304	7/7	0.98	0.22	72,72,72,72	4
86	OHX	5	3873	7/7	0.98	0.17	58,58,58,58	4
86	OHX	M6	203	7/7	0.98	0.36	43,43,43,43	2
86	OHX	5	3875	7/7	0.98	0.25	49,49,49,49	2
85	MG	5	3541	1/1	0.98	0.50	41,41,41,41	0
86	OHX	5	3879	7/7	0.98	0.26	59,59,59,59	3
86	OHX	5	3881	7/7	0.98	0.19	96,96,96,96	2
86	OHX	1	3864	7/7	0.98	0.32	104,104,104,104	3
86	OHX	5	3884	7/7	0.98	0.17	63,63,63,63	3
86	OHX	5	3885	7/7	0.98	0.17	78,78,78,78	3
86	OHX	5	3888	7/7	0.98	0.22	43,43,43,43	3
85	MG	1	3740	1/1	0.98	0.30	62,62,62,62	0
85	MG	1	3499	1/1	0.98	0.54	37,37,37,37	0
86	OHX	1	4007	7/7	0.98	0.18	43,43,43,43	4
86	OHX	5	3892	7/7	0.98	0.30	63,63,63,63	3
86	OHX	5	3894	7/7	0.98	0.27	50,50,50,50	2
86	OHX	O3	201	7/7	0.98	0.23	52,52,52,52	4

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	5	3896	7/7	0.98	0.24	42,42,42,42	4
86	OHX	5	3899	7/7	0.98	0.22	49,49,49,49	3
86	OHX	1	3869	7/7	0.98	0.20	92,92,92,92	3
85	MG	5	3679	1/1	0.98	0.42	31,31,31,31	1
86	OHX	5	3904	7/7	0.98	0.28	49,49,49,49	2
86	OHX	5	3905	7/7	0.98	0.26	51,51,51,51	4
86	OHX	5	3907	7/7	0.98	0.19	63,63,63,63	3
85	MG	5	3404	1/1	0.98	0.34	33,33,33,33	0
86	OHX	6	2016	7/7	0.98	0.22	83,83,83,83	4
86	OHX	5	3911	7/7	0.98	0.23	44,44,44,44	4
86	OHX	5	3913	7/7	0.98	0.22	77,77,77,77	3
86	OHX	1	3872	7/7	0.98	0.24	44,44,44,44	4
86	OHX	1	3873	7/7	0.98	0.20	53,53,53,53	5
85	MG	5	3633	1/1	0.98	0.43	34,34,34,34	0
86	OHX	6	2031	7/7	0.98	0.19	80,80,80,80	4
86	OHX	5	3918	7/7	0.98	0.18	36,36,36,36	2
86	OHX	6	2032	7/7	0.98	0.20	117,117,117,117	2
86	OHX	5	3920	7/7	0.98	0.21	36,36,36,36	2
86	OHX	5	3921	7/7	0.98	0.21	57,57,57,57	2
86	OHX	6	2035	7/7	0.98	0.24	82,82,82,82	3
86	OHX	6	2036	7/7	0.98	0.21	58,58,58,58	3
86	OHX	6	2037	7/7	0.98	0.23	101,101,101,101	3
86	OHX	5	3927	7/7	0.98	0.18	64,64,64,64	5
86	OHX	2	2031	7/7	0.98	0.17	81,81,81,81	4
86	OHX	5	3929	7/7	0.98	0.28	41,41,41,41	4
86	OHX	7	215	7/7	0.98	0.19	60,60,60,60	5
86	OHX	5	3930	7/7	0.98	0.17	55,55,55,55	2
86	OHX	7	218	7/7	0.98	0.28	67,67,67,67	3
86	OHX	6	2041	7/7	0.98	0.25	56,56,56,56	4
86	OHX	5	3933	7/7	0.98	0.15	94,94,94,94	4
86	OHX	5	3934	7/7	0.98	0.22	38,38,38,38	2
86	OHX	1	3876	7/7	0.98	0.31	41,41,41,41	2
86	OHX	5	3937	7/7	0.98	0.25	53,53,53,53	2
86	OHX	8	214	7/7	0.98	0.21	62,62,62,62	4
86	OHX	8	215	7/7	0.98	0.28	60,60,60,60	3
86	OHX	8	216	7/7	0.98	0.21	85,85,85,85	3
85	MG	1	3593	1/1	0.98	0.24	50,50,50,50	0
86	OHX	1	3878	7/7	0.98	0.20	58,58,58,58	3
86	OHX	6	2046	7/7	0.98	0.34	60,60,60,60	2
86	OHX	8	220	7/7	0.98	0.23	44,44,44,44	3
86	OHX	6	2047	7/7	0.98	0.21	67,67,67,67	5
86	OHX	6	2048	7/7	0.98	0.18	65,65,65,65	4

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	2049	7/7	0.98	0.19	97,97,97,97	3
86	OHX	5	3944	7/7	0.98	0.22	42,42,42,42	3
86	OHX	2	2033	7/7	0.98	0.23	78,78,78,78	3
86	OHX	5	3946	7/7	0.98	0.18	109,109,109,109	4
86	OHX	5	3947	7/7	0.98	0.27	45,45,45,45	3
86	OHX	1	3880	7/7	0.98	0.22	47,47,47,47	5
86	OHX	6	2052	7/7	0.98	0.18	67,67,67,67	3
86	OHX	1	3881	7/7	0.98	0.17	86,86,86,86	4
86	OHX	6	2054	7/7	0.98	0.12	87,87,87,87	3
86	OHX	6	2056	7/7	0.98	0.20	73,73,73,73	3
85	MG	1	3466	1/1	0.98	0.38	37,37,37,37	0
86	OHX	5	3956	7/7	0.98	0.21	40,40,40,40	2
86	OHX	6	2058	7/7	0.98	0.26	72,72,72,72	2
86	OHX	5	3958	7/7	0.98	0.25	42,42,42,42	2
86	OHX	5	3960	7/7	0.98	0.22	44,44,44,44	3
86	OHX	5	3961	7/7	0.98	0.15	74,74,74,74	1
86	OHX	6	2059	7/7	0.98	0.19	61,61,61,61	3
85	MG	1	3575	1/1	0.98	0.46	32,32,32,32	0
86	OHX	1	3885	7/7	0.98	0.26	53,53,53,53	3
86	OHX	m5	305	7/7	0.98	0.27	54,54,54,54	3
85	MG	2	1918	1/1	0.98	0.36	68,68,68,68	0
86	OHX	6	2063	7/7	0.98	0.08	147,147,147,147	6
85	MG	5	3786	1/1	0.98	0.26	35,35,35,35	0
86	OHX	1	3888	7/7	0.98	0.26	71,71,71,71	3
86	OHX	o3	202	7/7	0.98	0.17	52,52,52,52	3
86	OHX	1	3889	7/7	0.98	0.23	48,48,48,48	2
86	OHX	6	2067	7/7	0.98	0.10	154,154,154,154	3
86	OHX	q2	203	7/7	0.98	0.24	47,47,47,47	2
87	ZN	D6	500	1/1	0.98	0.08	103,103,103,103	0
86	OHX	6	2068	7/7	0.98	0.13	103,103,103,103	4
86	OHX	2	2038	7/7	0.98	0.09	119,119,119,119	6
87	ZN	Q0	500	1/1	0.98	0.11	54,54,54,54	0
87	ZN	Q2	501	1/1	0.98	0.06	77,77,77,77	0
87	ZN	d6	101	1/1	0.98	0.05	84,84,84,84	0
86	OHX	6	2070	7/7	0.98	0.22	87,87,87,87	3
86	OHX	2	2039	7/7	0.98	0.18	103,103,103,103	7
86	OHX	2	2040	7/7	0.98	0.15	89,89,89,89	3
85	MG	5	3593	1/1	0.98	0.56	22,22,22,22	0
86	OHX	5	3979	7/7	0.98	0.32	67,67,67,67	3
86	OHX	5	3980	7/7	0.98	0.21	55,55,55,55	3
86	OHX	5	3981	7/7	0.98	0.23	69,69,69,69	3
86	OHX	1	3894	7/7	0.98	0.08	132,132,132,132	7

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	2075	7/7	0.98	0.26	76,76,76,76	3
86	OHX	5	4068	7/7	0.99	0.14	49,49,49,49	3
86	OHX	6	2015	7/7	0.99	0.14	78,78,78,78	3
85	MG	5	3583	1/1	0.99	0.60	23,23,23,23	0
86	OHX	5	3906	7/7	0.99	0.19	60,60,60,60	4
86	OHX	6	2017	7/7	0.99	0.23	59,59,59,59	2
86	OHX	5	3908	7/7	0.99	0.20	45,45,45,45	4
86	OHX	6	2018	7/7	0.99	0.19	90,90,90,90	2
86	OHX	6	2019	7/7	0.99	0.23	79,79,79,79	2
85	MG	6	1958	1/1	0.99	0.58	44,44,44,44	0
86	OHX	5	3912	7/7	0.99	0.17	107,107,107,107	2
86	OHX	6	2021	7/7	0.99	0.23	69,69,69,69	3
86	OHX	6	2022	7/7	0.99	0.20	67,67,67,67	2
86	OHX	6	2023	7/7	0.99	0.18	80,80,80,80	3
86	OHX	6	2024	7/7	0.99	0.15	99,99,99,99	3
85	MG	1	3402	1/1	0.99	0.70	36,36,36,36	0
86	OHX	6	2026	7/7	0.99	0.18	66,66,66,66	1
86	OHX	6	2027	7/7	0.99	0.19	76,76,76,76	2
86	OHX	6	2028	7/7	0.99	0.19	63,63,63,63	2
85	MG	1	3733	1/1	0.99	0.28	40,40,40,40	0
86	OHX	6	2030	7/7	0.99	0.19	57,57,57,57	2
86	OHX	5	3923	7/7	0.99	0.24	41,41,41,41	1
86	OHX	2	2015	7/7	0.99	0.13	90,90,90,90	4
86	OHX	5	3925	7/7	0.99	0.19	56,56,56,56	3
85	MG	1	3456	1/1	0.99	0.41	32,32,32,32	0
86	OHX	6	2033	7/7	0.99	0.23	56,56,56,56	5
86	OHX	6	2034	7/7	0.99	0.18	66,66,66,66	5
86	OHX	1	3763	7/7	0.99	0.23	58,58,58,58	2
86	OHX	1	3765	7/7	0.99	0.18	65,65,65,65	2
86	OHX	5	3931	7/7	0.99	0.27	54,54,54,54	4
86	OHX	1	3837	7/7	0.99	0.21	60,60,60,60	2
86	OHX	6	2038	7/7	0.99	0.16	61,61,61,61	5
86	OHX	1	3838	7/7	0.99	0.28	52,52,52,52	3
86	OHX	5	3935	7/7	0.99	0.21	45,45,45,45	1
86	OHX	6	2040	7/7	0.99	0.15	123,123,123,123	5
86	OHX	1	3839	7/7	0.99	0.18	64,64,64,64	3
86	OHX	6	2042	7/7	0.99	0.28	62,62,62,62	3
86	OHX	1	3766	7/7	0.99	0.22	61,61,61,61	2
86	OHX	1	3767	7/7	0.99	0.19	77,77,77,77	2
86	OHX	1	3769	7/7	0.99	0.20	64,64,64,64	2
86	OHX	1	3770	7/7	0.99	0.18	61,61,61,61	2
86	OHX	1	3771	7/7	0.99	0.21	59,59,59,59	2

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	1	3772	7/7	0.99	0.20	67,67,67,67	2
86	OHX	1	3773	7/7	0.99	0.25	49,49,49,49	2
86	OHX	1	3847	7/7	0.99	0.19	56,56,56,56	3
86	OHX	1	3774	7/7	0.99	0.16	71,71,71,71	3
86	OHX	1	3775	7/7	0.99	0.18	66,66,66,66	2
86	OHX	1	3776	7/7	0.99	0.21	55,55,55,55	1
86	OHX	1	3851	7/7	0.99	0.20	46,46,46,46	3
86	OHX	6	2055	7/7	0.99	0.13	113,113,113,113	4
86	OHX	1	3777	7/7	0.99	0.22	61,61,61,61	3
86	OHX	5	3953	7/7	0.99	0.19	45,45,45,45	3
86	OHX	5	3954	7/7	0.99	0.18	49,49,49,49	2
86	OHX	1	3778	7/7	0.99	0.26	64,64,64,64	1
86	OHX	1	3854	7/7	0.99	0.17	43,43,43,43	4
86	OHX	1	3780	7/7	0.99	0.24	75,75,75,75	1
86	OHX	1	3781	7/7	0.99	0.18	76,76,76,76	2
86	OHX	5	3959	7/7	0.99	0.15	61,61,61,61	4
86	OHX	1	3782	7/7	0.99	0.24	71,71,71,71	4
86	OHX	1	3783	7/7	0.99	0.17	83,83,83,83	2
86	OHX	1	3784	7/7	0.99	0.25	73,73,73,73	2
86	OHX	1	3860	7/7	0.99	0.21	38,38,38,38	2
86	OHX	1	3861	7/7	0.99	0.20	60,60,60,60	3
86	OHX	1	3785	7/7	0.99	0.21	59,59,59,59	2
86	OHX	1	3863	7/7	0.99	0.20	42,42,42,42	3
86	OHX	1	3786	7/7	0.99	0.20	94,94,94,94	3
86	OHX	5	3968	7/7	0.99	0.17	47,47,47,47	4
86	OHX	1	3865	7/7	0.99	0.13	75,75,75,75	2
86	OHX	3	209	7/7	0.99	0.20	76,76,76,76	4
85	MG	c8	201	1/1	0.99	0.11	91,91,91,91	0
86	OHX	1	3788	7/7	0.99	0.20	58,58,58,58	4
86	OHX	5	3973	7/7	0.99	0.25	39,39,39,39	4
86	OHX	1	3868	7/7	0.99	0.17	53,53,53,53	4
86	OHX	1	3789	7/7	0.99	0.19	74,74,74,74	2
86	OHX	1	3790	7/7	0.99	0.22	48,48,48,48	3
85	MG	5	3496	1/1	0.99	0.40	35,35,35,35	0
86	OHX	2	1991	7/7	0.99	0.17	88,88,88,88	0
86	OHX	2	1992	7/7	0.99	0.20	98,98,98,98	1
86	OHX	1	3794	7/7	0.99	0.29	69,69,69,69	2
85	MG	1	3540	1/1	0.99	0.44	41,41,41,41	0
86	OHX	4	216	7/7	0.99	0.20	59,59,59,59	3
86	OHX	2	1994	7/7	0.99	0.14	97,97,97,97	2
86	OHX	1	3798	7/7	0.99	0.21	69,69,69,69	1
86	OHX	1	3799	7/7	0.99	0.22	78,78,78,78	3

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	6	2085	7/7	0.99	0.32	76,76,76,76	2
86	OHX	5	3987	7/7	0.99	0.26	41,41,41,41	3
86	OHX	1	3800	7/7	0.99	0.27	44,44,44,44	3
86	OHX	1	3801	7/7	0.99	0.18	71,71,71,71	3
86	OHX	5	3817	7/7	0.99	0.19	53,53,53,53	4
86	OHX	5	3818	7/7	0.99	0.17	57,57,57,57	0
86	OHX	5	3819	7/7	0.99	0.25	51,51,51,51	3
86	OHX	5	3821	7/7	0.99	0.18	64,64,64,64	2
86	OHX	5	3823	7/7	0.99	0.23	53,53,53,53	2
86	OHX	5	3825	7/7	0.99	0.18	58,58,58,58	1
86	OHX	5	3827	7/7	0.99	0.21	80,80,80,80	1
86	OHX	5	3828	7/7	0.99	0.19	50,50,50,50	3
86	OHX	5	3829	7/7	0.99	0.21	44,44,44,44	5
86	OHX	5	3830	7/7	0.99	0.17	67,67,67,67	0
86	OHX	5	4000	7/7	0.99	0.16	45,45,45,45	2
86	OHX	5	3832	7/7	0.99	0.23	56,56,56,56	2
86	OHX	5	3834	7/7	0.99	0.26	51,51,51,51	1
86	OHX	5	3835	7/7	0.99	0.19	54,54,54,54	1
86	OHX	5	3836	7/7	0.99	0.19	65,65,65,65	3
86	OHX	5	3840	7/7	0.99	0.23	65,65,65,65	2
86	OHX	5	3842	7/7	0.99	0.20	38,38,38,38	3
86	OHX	1	3802	7/7	0.99	0.18	60,60,60,60	2
86	OHX	7	214	7/7	0.99	0.28	70,70,70,70	1
86	OHX	5	3845	7/7	0.99	0.25	48,48,48,48	2
86	OHX	1	3882	7/7	0.99	0.22	64,64,64,64	3
86	OHX	7	217	7/7	0.99	0.20	40,40,40,40	1
86	OHX	5	3847	7/7	0.99	0.20	48,48,48,48	1
86	OHX	7	219	7/7	0.99	0.22	67,67,67,67	2
86	OHX	5	3848	7/7	0.99	0.21	54,54,54,54	1
86	OHX	5	3849	7/7	0.99	0.17	100,100,100,100	3
86	OHX	1	3803	7/7	0.99	0.18	73,73,73,73	3
86	OHX	5	3851	7/7	0.99	0.17	55,55,55,55	4
86	OHX	5	3852	7/7	0.99	0.27	55,55,55,55	2
86	OHX	8	212	7/7	0.99	0.23	57,57,57,57	3
86	OHX	8	213	7/7	0.99	0.17	57,57,57,57	2
86	OHX	5	3853	7/7	0.99	0.18	56,56,56,56	3
86	OHX	5	3854	7/7	0.99	0.14	78,78,78,78	2
86	OHX	1	3804	7/7	0.99	0.20	62,62,62,62	1
86	OHX	1	3805	7/7	0.99	0.16	93,93,93,93	4
86	OHX	5	3857	7/7	0.99	0.19	54,54,54,54	1
86	OHX	1	3806	7/7	0.99	0.24	52,52,52,52	2
86	OHX	5	3859	7/7	0.99	0.23	55,55,55,55	1

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
86	OHX	2	1995	7/7	0.99	0.28	76,76,76,76	2
86	OHX	5	3861	7/7	0.99	0.20	46,46,46,46	3
85	MG	5	3413	1/1	0.99	0.42	36,36,36,36	0
86	OHX	2	1997	7/7	0.99	0.11	107,107,107,107	5
86	OHX	5	3864	7/7	0.99	0.16	88,88,88,88	3
85	MG	1	3549	1/1	0.99	0.20	59,59,59,59	0
85	MG	1	3453	1/1	0.99	0.79	39,39,39,39	0
86	OHX	5	3867	7/7	0.99	0.10	126,126,126,126	2
86	OHX	2	2028	7/7	0.99	0.14	108,108,108,108	5
86	OHX	6	2100	7/7	0.99	0.13	71,71,71,71	3
86	OHX	5	3870	7/7	0.99	0.19	76,76,76,76	5
86	OHX	l3	403	7/7	0.99	0.14	50,50,50,50	3
85	MG	1	3506	1/1	0.99	0.61	32,32,32,32	0
86	OHX	2	2001	7/7	0.99	0.13	120,120,120,120	2
85	MG	6	2005	1/1	0.99	0.32	88,88,88,88	0
86	OHX	1	3896	7/7	0.99	0.29	49,49,49,49	2
86	OHX	2	2003	7/7	0.99	0.23	76,76,76,76	5
85	MG	5	3434	1/1	0.99	0.51	33,33,33,33	0
86	OHX	5	3877	7/7	0.99	0.17	62,62,62,62	3
86	OHX	5	3878	7/7	0.99	0.20	73,73,73,73	3
86	OHX	1	3818	7/7	0.99	0.23	62,62,62,62	2
86	OHX	5	3880	7/7	0.99	0.18	47,47,47,47	3
86	OHX	M5	303	7/7	0.99	0.20	61,61,61,61	2
86	OHX	m5	306	7/7	0.99	0.16	76,76,76,76	3
86	OHX	m6	201	7/7	0.99	0.28	36,36,36,36	3
85	MG	1	3486	1/1	0.99	0.61	39,39,39,39	0
86	OHX	5	3883	7/7	0.99	0.23	53,53,53,53	1
86	OHX	1	3901	7/7	0.99	0.19	62,62,62,62	4
85	MG	N8	201	1/1	0.99	0.38	33,33,33,33	0
86	OHX	n9	101	7/7	0.99	0.19	62,62,62,62	2
86	OHX	5	3886	7/7	0.99	0.18	79,79,79,79	3
86	OHX	5	3887	7/7	0.99	0.21	44,44,44,44	2
85	MG	5	3560	1/1	0.99	0.69	27,27,27,27	0
86	OHX	o7	503	7/7	0.99	0.28	62,62,62,62	1
86	OHX	1	3822	7/7	0.99	0.21	50,50,50,50	4
86	OHX	1	3823	7/7	0.99	0.10	111,111,111,111	4
86	OHX	1	3824	7/7	0.99	0.16	68,68,68,68	3
87	ZN	D9	101	1/1	0.99	0.07	89,89,89,89	0
85	MG	1	3425	1/1	0.99	0.90	27,27,27,27	0
87	ZN	O7	102	1/1	0.99	0.15	47,47,47,47	0
86	OHX	5	3893	7/7	0.99	0.23	59,59,59,59	2
85	MG	1	3590	1/1	0.99	0.32	43,43,43,43	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
87	ZN	Q3	501	1/1	0.99	0.10	78,78,78,78	0
86	OHX	1	3827	7/7	0.99	0.24	45,45,45,45	4
85	MG	1	3509	1/1	0.99	0.63	33,33,33,33	0
87	ZN	d9	101	1/1	0.99	0.10	91,91,91,91	0
86	OHX	5	3897	7/7	0.99	0.22	46,46,46,46	5
87	ZN	o7	501	1/1	0.99	0.17	45,45,45,45	0
87	ZN	q0	500	1/1	0.99	0.13	42,42,42,42	0
86	OHX	5	3898	7/7	0.99	0.16	58,58,58,58	4
86	OHX	Q2	503	7/7	0.99	0.20	46,46,46,46	2
86	OHX	6	2013	7/7	0.99	0.18	87,87,87,87	2
86	OHX	5	3901	7/7	0.99	0.26	43,43,43,43	3
86	OHX	5	4065	7/7	0.99	0.21	39,39,39,39	3
86	OHX	6	2014	7/7	0.99	0.25	76,76,76,76	3
86	OHX	5	3903	7/7	0.99	0.31	91,91,91,91	2
86	OHX	1	3761	7/7	1.00	0.19	57,57,57,57	1
86	OHX	1	3779	7/7	1.00	0.18	49,49,49,49	4
86	OHX	6	2012	7/7	1.00	0.20	70,70,70,70	3
86	OHX	N9	101	7/7	1.00	0.22	64,64,64,64	1
86	OHX	5	3831	7/7	1.00	0.20	61,61,61,61	1
86	OHX	1	3764	7/7	1.00	0.17	65,65,65,65	2
86	OHX	5	3833	7/7	1.00	0.20	59,59,59,59	2
86	OHX	m5	304	7/7	1.00	0.19	61,61,61,61	2
86	OHX	5	3820	7/7	1.00	0.19	52,52,52,52	3
86	OHX	1	3768	7/7	1.00	0.22	52,52,52,52	2
86	OHX	5	3822	7/7	1.00	0.20	61,61,61,61	2
86	OHX	5	3837	7/7	1.00	0.17	71,71,71,71	0
86	OHX	5	3838	7/7	1.00	0.16	58,58,58,58	2
86	OHX	5	3839	7/7	1.00	0.16	64,64,64,64	2
86	OHX	1	3797	7/7	1.00	0.17	54,54,54,54	2
87	ZN	q3	501	1/1	1.00	0.16	62,62,62,62	0
86	OHX	5	3841	7/7	1.00	0.19	51,51,51,51	1
86	OHX	8	211	7/7	1.00	0.18	64,64,64,64	1
86	OHX	5	3824	7/7	1.00	0.19	62,62,62,62	2
86	OHX	1	3762	7/7	1.00	0.19	55,55,55,55	3
86	OHX	5	3844	7/7	1.00	0.22	62,62,62,62	2
86	OHX	5	3826	7/7	1.00	0.20	46,46,46,46	1

6.5 Other polymers (i)

There are no such residues in this entry.