Full wwPDB X-ray Structure Validation Report (i)

Apr 23, 2025 – 06:38 am BST

PDB ID	:	8P9A / pdb_00008p9a
Title	:	80S yeast ribosome in complex with Methyllissoclimide
Authors	:	Terrosu, S.; Yusupov, M.; Vanderwal, C.
Deposited on	:	2023-06-05
Resolution	:	2.90 Å(reported)

This is a Full wwPDB X-ray Structure Validation 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:

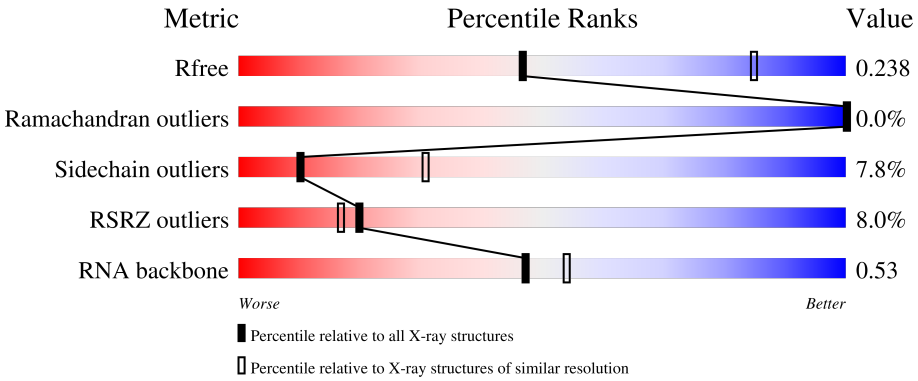
MolProbity	:	4.02b-467
Mogul	:	1.8.4, CSD as541be (2020)
Xtriage (Phenix)	:	1.13
EDS	:	3.0
buster-report	:	1.1.7 (2018)
Percentile statistics	:	20231227.v01 (using entries in the PDB archive December 27th 2023)
CCP4	:	9.0.003 (Gargrove)
Density-Fitness	:	1.0.11
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.42

1 Overall quality at a glance (i)

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

The reported resolution of this entry is 2.90 Å.

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



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
R_{free}	164625	2335 (2.90-2.90)
Ramachandran outliers	177936	2514 (2.90-2.90)
Sidechain outliers	177891	2516 (2.90-2.90)
RSRZ outliers	164620	2337 (2.90-2.90)
RNA backbone	3690	1039 (3.10-2.70)

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	1	3149	81% 18%
1	AR	3149	80% 18%
2	3	121	90% 10%
2	AS	121	83% 17%
3	4	158	78% 21%

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Mol	Chain	Length	Quality of chain
3	AT	158	3% 80% 19%
4	CD	254	8% 93% 6%
4	j	254	6% 97%
5	CE	387	2% 94% 6%
5	k	387	4% 92% 7%
6	CF	362	3% 94% 5%
6	l	362	5% 93% 7%
7	CG	297	5% 90% 8%
7	m	297	7% 92% 8%
8	CH	176	5% 84% 11%
8	n	176	% 85% 11%
9	CI	244	2% 86% 9%
9	o	244	3% 87% 9%
10	CJ	256	14% 81% 7% 12%
10	p	256	4% 87% 9%
11	CK	191	4% 91% 9%
11	q	191	7% 95% 5%
12	CL	221	8% 87% 8% 5%
12	r	221	8% 90% 5%
13	CM	174	7% 89% 8%
13	s	174	5% 85% 12%
14	CN	199	8% 84% 11%
14	t	199	8% 87% 8%
15	CO	138	7% 93% 5%
15	u	138	5% 93% 5%

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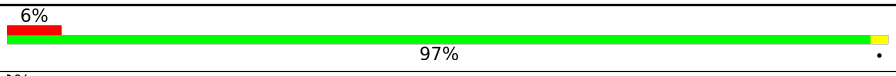
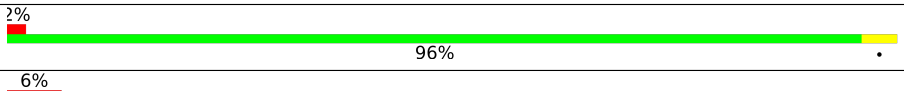
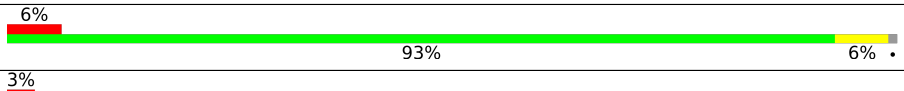
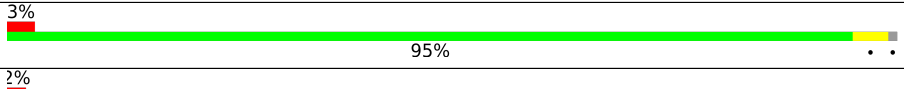
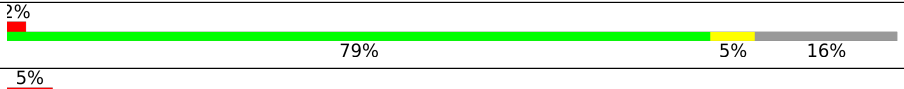
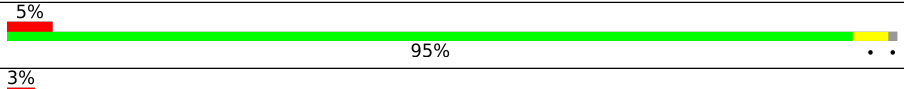
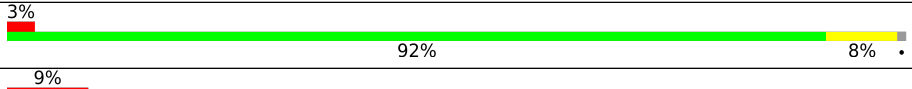
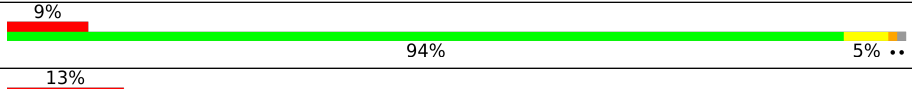
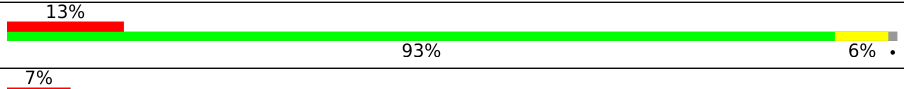
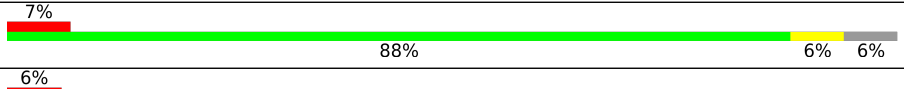
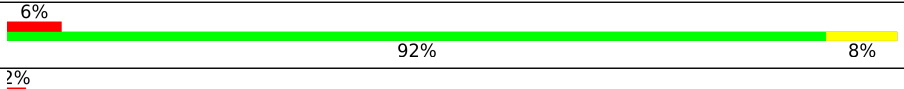
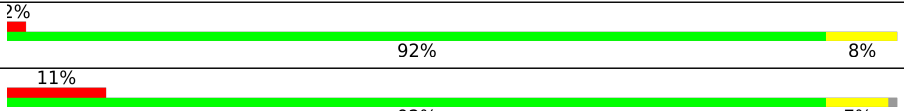
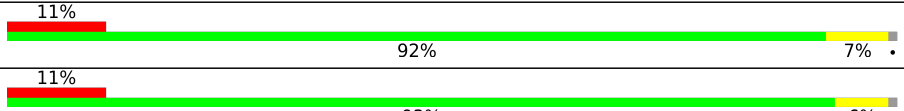
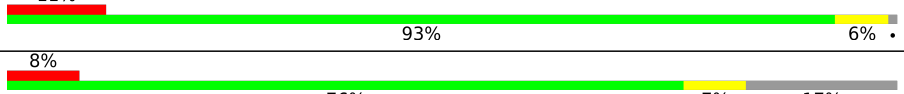
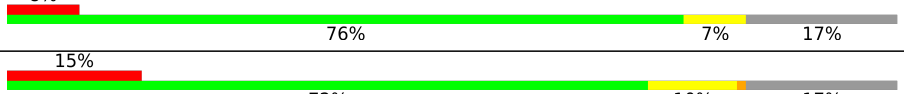
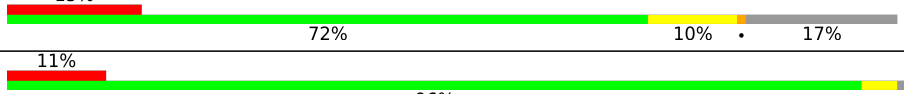
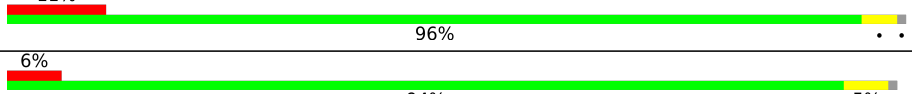
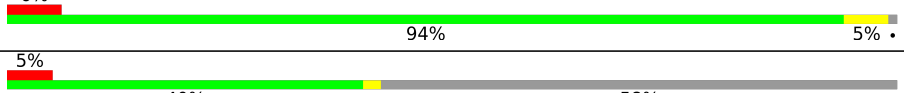
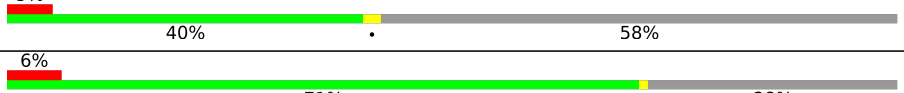
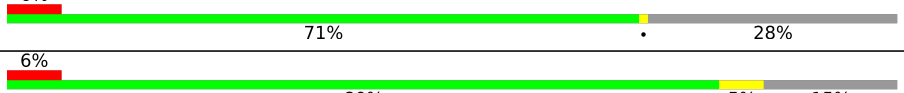
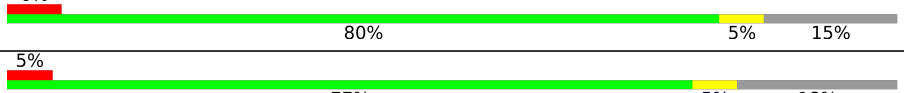
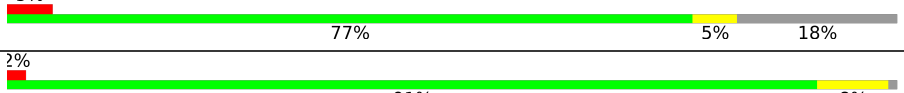
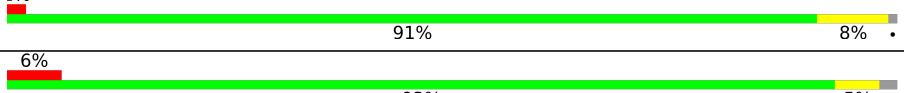
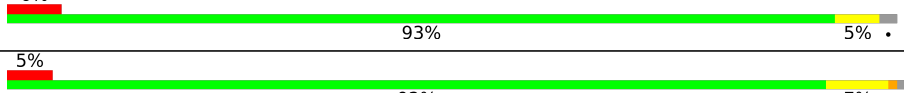
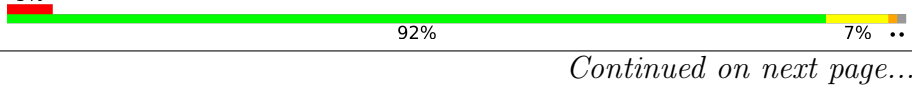
Mol	Chain	Length	Quality of chain
16	CP	204	
16	v	204	
17	CQ	199	
17	w	199	
18	CR	184	
18	x	184	
19	CS	186	
19	y	186	
20	CT	189	
20	z	189	
21	0	172	
21	CU	172	
22	2	160	
22	CV	160	
23	5	121	
23	CW	121	
24	6	137	
24	CX	137	
25	7	155	
25	CY	155	
26	8	142	
26	CZ	142	
27	9	127	
27	DA	127	
28	AA	136	

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Mol	Chain	Length	Quality of chain
28	DB	136	9% 89% 9%
29	AB	149	5% 87% 11%
29	DC	149	4% 90% 9%
30	AC	59	10% 95%
30	DD	59	14% 90% 8%
31	AD	105	3% 88% 5% 8%
31	DE	105	5% 85% 7% 8%
32	AE	113	12% 93%
32	DF	113	4% 92%
33	AF	130	4% 93% 5%
33	DG	130	2% 94%
34	AG	107	3% 96%
34	DH	107	6% 89% 9%
35	AH	121	10% 84% 6% 8%
35	DI	121	20% 89% 7%
36	AI	120	7% 91% 8%
36	DJ	120	4% 89% 10%
37	AJ	100	5% 87% 9%
37	DK	100	12% 90% 9%
38	AK	88	8% 95%
38	DL	88	2% 90% 8%
39	AL	78	6% 90% 8%
39	DM	78	8% 90% 9%
40	AM	51	14% 90% 8%
40	DN	51	10% 94%

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Mol	Chain	Length	Quality of chain
41	AN	128	2% 38% 59%
41	DO	128	2% 37% 59%
42	AO	25	8% 80% 20%
42	DP	25	16% 88% 12%
43	AP	106	13% 85% 12%
43	DQ	106	8% 91% 8%
44	AQ	92	5% 91% 8%
44	DR	92	8% 90% 9%
45	i	273	15% 48% 48%
45	sM	273	3% 20% 77%
46	p0	312	8% 38% 60%
47	A	1800	3% 70% 24%
47	sR	1800	3% 74% 24%
48	B	252	19% 74% 8% 18%
48	s0	252	10% 73% 9% 18%
49	C	255	17% 69% 13% 16%
49	s1	255	6% 79% 6% 15%
50	D	254	11% 78% 8% 15%
50	s2	254	13% 81% 15%
51	E	240	12% 86% 6% 7%
51	s3	240	17% 79% 14% 7%
52	F	261	15% 90% 9%
52	s4	261	7% 94% 6%
53	G	225	15% 81% 10% 8%
53	s5	225	18% 78% 8% 12%

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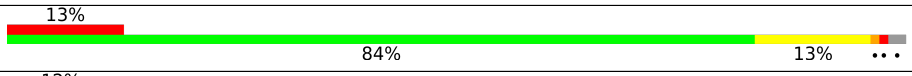
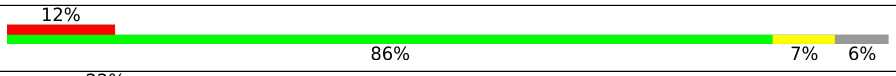
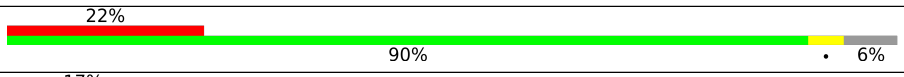
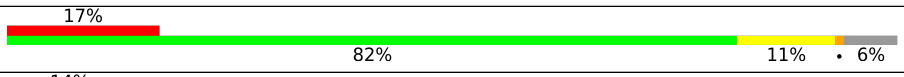
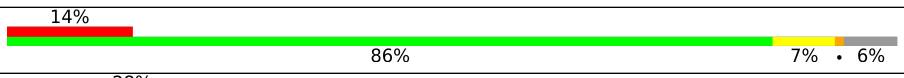
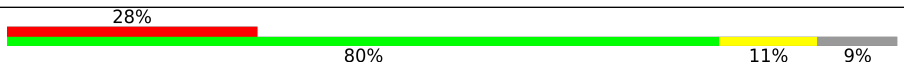
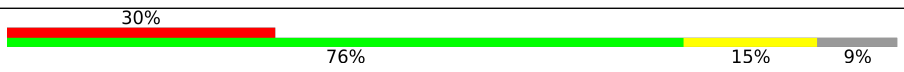
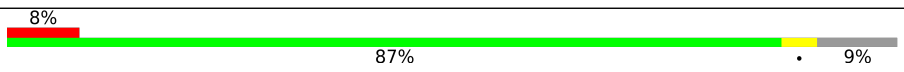
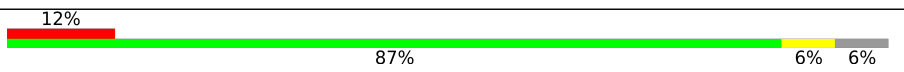
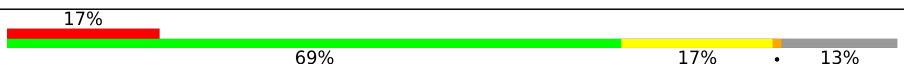
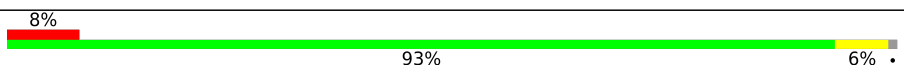
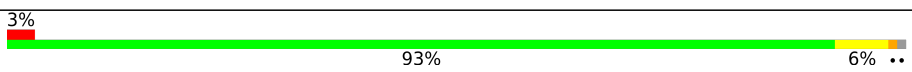
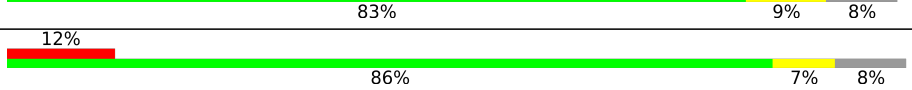
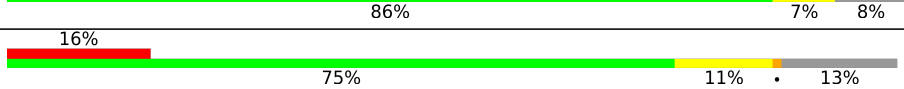
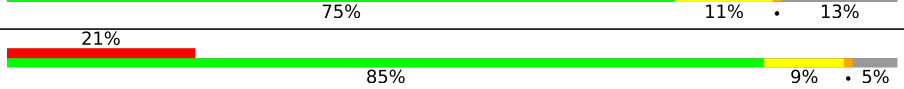
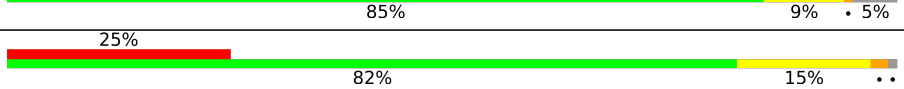
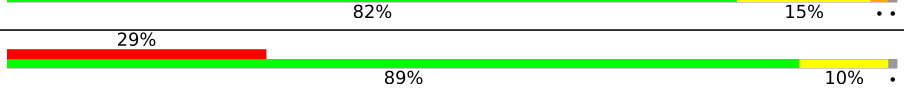
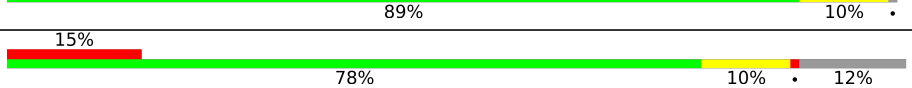
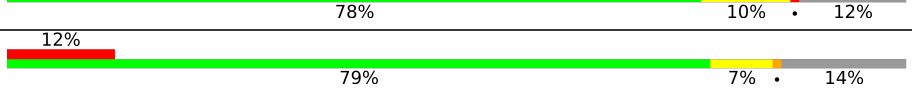
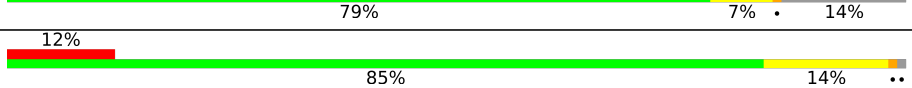
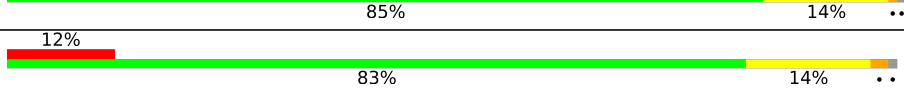
Mol	Chain	Length	Quality of chain
54	H	236	
54	s6	236	
55	I	190	
55	s7	190	
56	J	200	
56	s8	200	
57	K	197	
57	s9	197	
58	L	105	
58	c0	105	
59	M	156	
59	c1	156	
60	N	143	
61	O	151	
61	c3	151	
62	P	138	
62	c4	138	
63	Q	142	
63	c5	142	
64	R	143	
64	c6	143	
65	S	136	
65	c7	136	
66	T	146	
66	c8	146	

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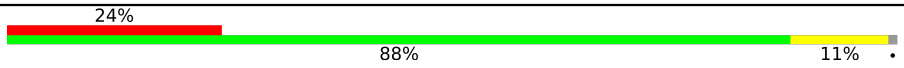
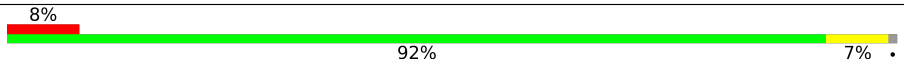
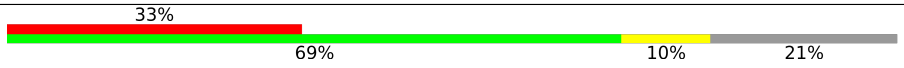
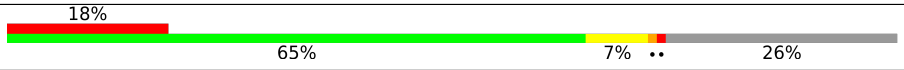
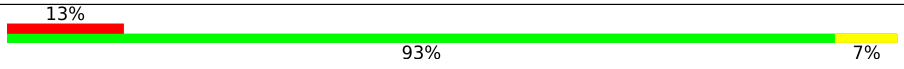
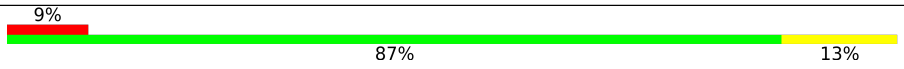
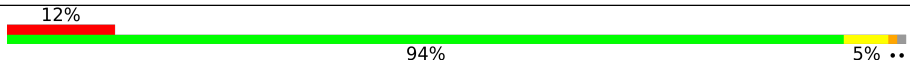
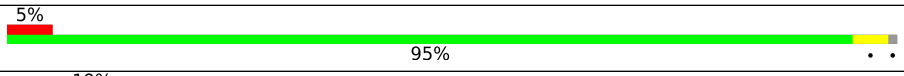
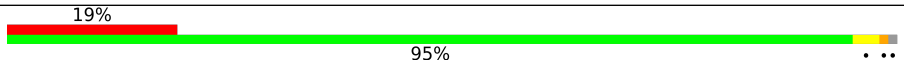
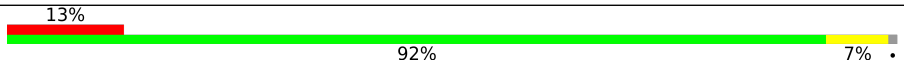
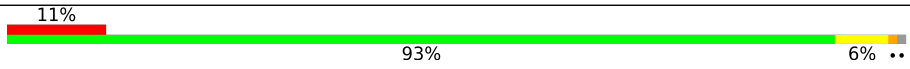
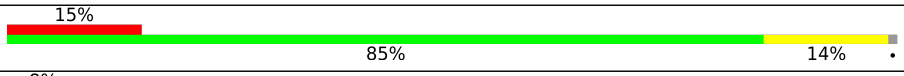
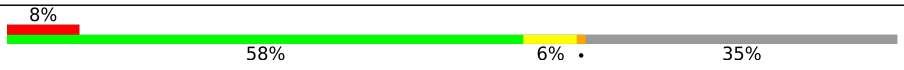
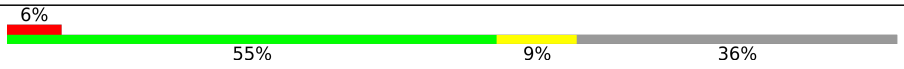
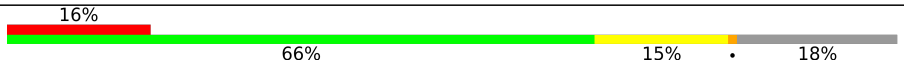
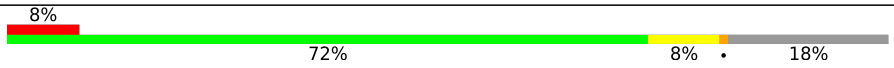
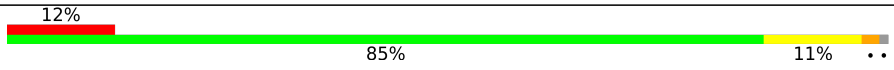
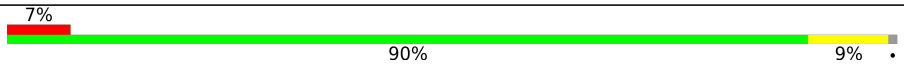
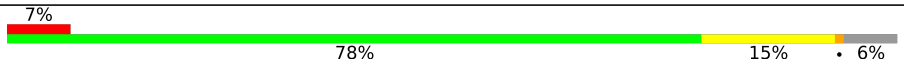
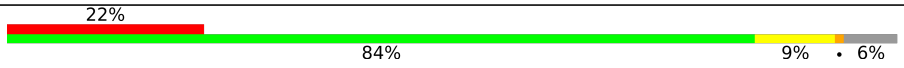
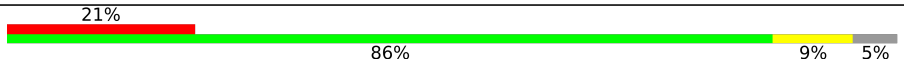
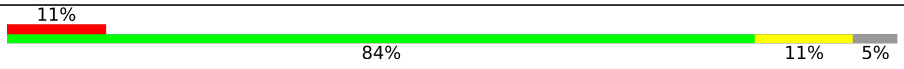
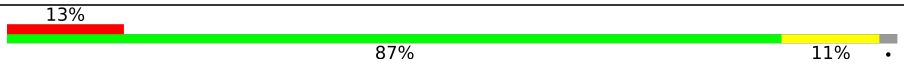
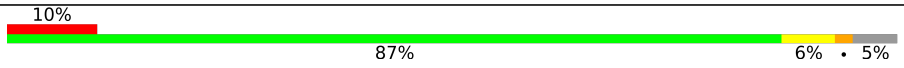
Mol	Chain	Length	Quality of chain
67	U	144	
67	c9	144	
68	V	121	
68	d0	121	
69	W	87	
69	d1	87	
70	X	130	
70	d2	130	
71	Y	145	
71	d3	145	
72	Z	135	
72	d4	135	
73	a	108	
73	d5	108	
74	b	119	
74	d6	119	
75	c	82	
75	d7	82	
76	d	67	
76	d8	67	
77	d9	56	
77	e	56	
78	e0	63	
78	f	63	
79	e1	152	

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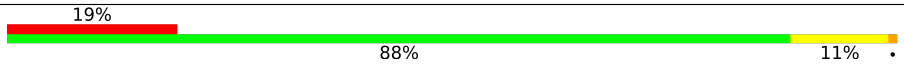
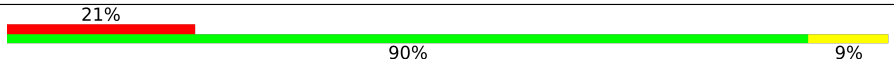
Mol	Chain	Length	Quality of chain
79	g	152	
80	Rb	319	
80	h	319	

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
81	OHX	AR	4202	-	-	-	X
82	MG	1	3867	-	-	-	X
82	MG	1	3902	-	-	-	X
82	MG	1	3931	-	-	-	X
82	MG	1	3949	-	-	-	X
82	MG	1	3992	-	-	-	X
82	MG	1	4039	-	-	-	X
82	MG	A	2001	-	-	-	X
82	MG	A	2093	-	-	-	X
82	MG	A	2096	-	-	-	X
82	MG	AR	3755	-	-	-	X
82	MG	AR	3768	-	-	-	X
82	MG	AR	3769	-	-	-	X
82	MG	AR	3865	-	-	-	X
82	MG	AR	3952	-	-	-	X
82	MG	AR	4013	-	-	-	X
82	MG	AR	4097	-	-	-	X
82	MG	AR	4162	-	-	-	X
82	MG	AS	3514	-	-	-	X
82	MG	AT	205	-	-	-	X
82	MG	s8	301	-	-	-	X
82	MG	s9	201	-	-	-	X
82	MG	sR	2124	-	-	-	X
82	MG	x	202	-	-	-	X

2 Entry composition (i)

There are 86 unique types of molecules in this entry. The entry contains 405377 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 25S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
1	1	3149	Total	C	N	O	P	0	0	0
			67355	30086	12142	21978	3149			
1	AR	3130	Total	C	N	O	P	0	0	0
			66954	29906	12075	21843	3130			

- Molecule 2 is a RNA chain called 5S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
2	3	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			
2	AS	121	Total	C	N	O	P	0	0	0
			2579	1152	461	845	121			

- Molecule 3 is a RNA chain called 5.8 ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
3	4	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			
3	AT	158	Total	C	N	O	P	0	0	0
			3353	1500	586	1109	158			

- Molecule 4 is a protein called 60S ribosomal protein L2-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
4	j	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			
4	CD	252	Total	C	N	O	S	0	0	0
			1914	1191	388	334	1			

- Molecule 5 is a protein called 60S ribosomal protein L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	k	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			
5	CE	386	Total	C	N	O	S	0	0	0
			3075	1950	584	533	8			

- Molecule 6 is a protein called 60S ribosomal protein L4-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	l	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			
6	CF	361	Total	C	N	O	S	0	0	0
			2748	1729	522	494	3			

- Molecule 7 is a protein called 60S ribosomal protein L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	m	296	Total	C	N	O	S	0	0	0
			2375	1501	414	458	2			
7	CG	292	Total	C	N	O	S	0	0	0
			2348	1486	408	452	2			

- Molecule 8 is a protein called 60S ribosomal protein L6-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	n	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			
8	CH	156	Total	C	N	O	S	0	0	0
			1239	800	222	216	1			

- Molecule 9 is a protein called 60S ribosomal protein L7-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	o	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			
9	CI	222	Total	C	N	O	S	0	0	0
			1784	1151	324	308	1			

- Molecule 10 is a protein called 60S ribosomal protein L8-A.

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

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CJ	226	Total	C	N	O	S	0	0	0
			1757	1125	314	315	3			

- Molecule 11 is a protein called 60S ribosomal protein L9-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	q	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			
11	CK	191	Total	C	N	O	S	0	0	0
			1518	963	274	277	4			

- Molecule 12 is a protein called 60S ribosomal protein L10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	r	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			
12	CL	211	Total	C	N	O	S	0	0	0
			1705	1083	322	294	6			

- Molecule 13 is a protein called Large ribosomal subunit protein uL5B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	s	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			
13	CM	169	Total	C	N	O	S	0	0	0
			1353	847	253	249	4			

- Molecule 14 is a protein called 60S ribosomal protein L13-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
14	t	193	Total	C	N	O	0	0	0
			1543	962	315	266			
14	CN	193	Total	C	N	O	0	0	0
			1543	962	315	266			

- Molecule 15 is a protein called 60S ribosomal protein L14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	u	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			
15	CO	136	Total	C	N	O	S	0	0	0
			1053	675	199	177	2			

- Molecule 16 is a protein called 60S ribosomal protein L15-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	v	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			
16	CP	203	Total	C	N	O	S	0	0	0
			1720	1077	361	281	1			

- Molecule 17 is a protein called 60S ribosomal protein L16-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	w	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			
17	CQ	197	Total	C	N	O	S	0	0	0
			1555	1003	289	262	1			

- Molecule 18 is a protein called 60S ribosomal protein L17-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	x	183	Total	C	N	O	0	0	0
			1420	882	281	257			
18	CR	155	Total	C	N	O	0	0	0
			1227	764	238	225			

- Molecule 19 is a protein called 60S ribosomal protein L18-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	y	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			
19	CS	185	Total	C	N	O	S	0	0	0
			1441	908	290	241	2			

- Molecule 20 is a protein called 60S ribosomal protein L19-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
20	z	177	Total	C	N	O	0	0	0
			1432	881	310	241			
20	CT	188	Total	C	N	O	0	0	0
			1521	935	326	260			

- Molecule 21 is a protein called 60S ribosomal protein L20-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	0	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			
21	CU	172	Total	C	N	O	S	0	0	0
			1445	930	267	244	4			

- Molecule 22 is a protein called 60S ribosomal protein L21-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	2	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			
22	CV	159	Total	C	N	O	S	0	0	0
			1276	805	246	221	4			

- Molecule 23 is a protein called 60S ribosomal protein L22-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	5	100	Total	C	N	O	0	0	0
			796	516	131	149			
23	CW	100	Total	C	N	O	0	0	0
			796	516	131	149			

- Molecule 24 is a protein called 60S ribosomal protein L23-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	6	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			
24	CX	136	Total	C	N	O	S	0	0	0
			1003	628	189	179	7			

- Molecule 25 is a protein called 60S ribosomal protein L24-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	7	65	Total	C	N	O	S	0	0	0
			533	343	104	85	1			
25	CY	111	Total	C	N	O	S	0	0	0
			769	485	153	130	1			

- Molecule 26 is a protein called 60S ribosomal protein L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	8	121	Total	C	N	O	S	0	0	0
			964	620	169	173	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	CZ	117	Total	C	N	O	S	0	0	0
			937	602	164	169	2			

- Molecule 27 is a protein called 60S ribosomal protein L26-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	9	126	Total	C	N	O	0	0	0
			993	625	192	176			
27	DA	124	Total	C	N	O	0	0	0
			976	614	190	172			

- Molecule 28 is a protein called 60S ribosomal protein L27-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
28	AA	135	Total	C	N	O	0	0	0
			1092	710	202	180			
28	DB	135	Total	C	N	O	0	0	0
			1092	710	202	180			

- Molecule 29 is a protein called 60S ribosomal protein L28.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
29	AB	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			
29	DC	148	Total	C	N	O	S	0	0	0
			1173	749	231	190	3			

- Molecule 30 is a protein called 60S ribosomal protein L29.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
30	AC	58	Total	C	N	O	0	0	0
			462	289	100	73			
30	DD	58	Total	C	N	O	0	0	0
			462	289	100	73			

- Molecule 31 is a protein called 60S ribosomal protein L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	AD	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			
31	DE	97	Total	C	N	O	S	0	0	0
			743	479	124	139	1			

- Molecule 32 is a protein called 60S ribosomal protein L31-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	AE	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			
32	DF	109	Total	C	N	O	S	0	0	0
			876	556	167	152	1			

- Molecule 33 is a protein called 60S ribosomal protein L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	AF	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			
33	DG	127	Total	C	N	O	S	0	0	0
			1020	647	205	167	1			

- Molecule 34 is a protein called 60S ribosomal protein L33-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	AG	106	Total	C	N	O	S	0	0	0
			844	537	162	144	1			
34	DH	106	Total	C	N	O	S	0	0	0
			850	540	165	144	1			

- Molecule 35 is a protein called 60S ribosomal protein L34-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	AH	111	Total	C	N	O	S	0	0	0
			871	539	177	151	4			
35	DI	112	Total	C	N	O	S	0	0	0
			880	545	179	152	4			

- Molecule 36 is a protein called 60S ribosomal protein L35-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	AI	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			
36	DJ	119	Total	C	N	O	S	0	0	0
			969	615	186	167	1			

- Molecule 37 is a protein called 60S ribosomal protein L36-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	AJ	96	Total	C	N	O	S	0	0	0
			739	463	145	129	2			
37	DK	99	Total	C	N	O	S	0	0	0
			771	481	156	132	2			

- Molecule 38 is a protein called 60S ribosomal protein L37-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	AK	87	Total	C	N	O	S	0	0	0
			681	414	148	114	5			
38	DL	86	Total	C	N	O	S	0	0	0
			676	411	147	113	5			

- Molecule 39 is a protein called 60S ribosomal protein L38.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
39	AL	77	Total	C	N	O	0	0	0
			612	391	115	106			
39	DM	77	Total	C	N	O	0	0	0
			612	391	115	106			

- Molecule 40 is a protein called 60S ribosomal protein L39.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
40	AM	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			
40	DN	50	Total	C	N	O	S	0	0	0
			436	272	97	65	2			

- Molecule 41 is a protein called Ubiquitin-60S ribosomal protein L40.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	AN	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			
41	DO	52	Total	C	N	O	S	0	0	0
			417	259	86	67	5			

- Molecule 42 is a protein called Large ribosomal subunit protein eL41B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	AO	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	DP	25	Total	C	N	O	S	0	0	0
			233	142	63	27	1			

- Molecule 43 is a protein called 60S ribosomal protein L42-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	AP	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			
43	DQ	105	Total	C	N	O	S	0	0	0
			847	534	170	138	5			

- Molecule 44 is a protein called 60S ribosomal protein L43-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
44	AQ	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			
44	DR	91	Total	C	N	O	S	0	0	0
			694	429	138	121	6			

- Molecule 45 is a protein called Suppressor protein STM1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	i	142	Total	C	N	O	0	0	0
			1017	599	204	214			
45	sM	63	Total	C	N	O	0	0	0
			475	280	99	96			

- Molecule 46 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	p0	126	Total	C	N	O	S	0	0	0
			992	636	175	178	3			

- Molecule 47 is a RNA chain called 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	A	1741	Total	C	N	O	P	0	0	0
			37101	16586	6569	12205	1741			
47	sR	1783	Total	C	N	O	P	0	0	0
			37990	16984	6723	12500	1783			

- Molecule 48 is a protein called 40S ribosomal protein S0-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
48	B	206	Total	C	N	O	S	0	0	0
			1562	1006	273	281	2			
48	s0	206	Total	C	N	O	S	0	0	0
			1583	1017	281	283	2			

- Molecule 49 is a protein called 40S ribosomal protein S1-A.

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

- Molecule 50 is a protein called 40S ribosomal protein S2.

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

- Molecule 51 is a protein called Small ribosomal subunit protein uS3.

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

- Molecule 52 is a protein called 40S ribosomal protein S4-A.

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

- Molecule 53 is a protein called 40S ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	G	206	Total	C	N	O	S	0	0	0
			1609	1007	300	299	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	s5	198	Total	C	N	O	S	0	0	0
			1561	981	286	291	3			

- Molecule 54 is a protein called 40S ribosomal protein S6-A.

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

- Molecule 55 is a protein called 40S ribosomal protein S7-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
55	I	184	Total	C	N	O	0	0	0
			1481	951	265	265			
55	s7	186	Total	C	N	O	0	0	0
			1491	957	267	267			

- Molecule 56 is a protein called 40S ribosomal protein S8-A.

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

- Molecule 57 is a protein called 40S ribosomal protein S9-A.

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

- Molecule 58 is a protein called 40S ribosomal protein S10-A.

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

- Molecule 59 is a protein called 40S ribosomal protein S11-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	M	142	Total	C	N	O	S	0	0	0
			1149	736	217	193	3			
59	c1	146	Total	C	N	O	S	0	0	0
			1168	747	221	197	3			

- Molecule 60 is a protein called 40S ribosomal protein S12.

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

- Molecule 61 is a protein called 40S ribosomal protein S13.

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

- Molecule 62 is a protein called 40S ribosomal protein S14-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	P	127	Total	C	N	O	S	0	0	0
			891	545	182	163	1			
62	c4	127	Total	C	N	O	S	0	0	0
			940	577	186	174	3			

- Molecule 63 is a protein called 40S ribosomal protein S15.

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

- Molecule 64 is a protein called 40S ribosomal protein S16-A.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
64	R	141	Total	C	N	O	0	0	0
			1105	708	203	194			

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

- Molecule 65 is a protein called 40S ribosomal protein S17-A.

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

- Molecule 66 is a protein called 40S ribosomal protein S18-A.

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

- Molecule 67 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 68 is a protein called Small ribosomal subunit protein uS10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
68	V	96	Total 765	C 481	N 139	O 144	S 1	0	0	0
68	d0	89	Total 715	C 451	N 131	O 132	S 1	0	0	0

- Molecule 69 is a protein called 40S ribosomal protein S21-A.

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

- Molecule 70 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 71 is a protein called 40S ribosomal protein S23-A.

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

- Molecule 72 is a protein called 40S ribosomal protein S24-A.

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

- Molecule 73 is a protein called 40S ribosomal protein S25-A.

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

- Molecule 74 is a protein called Small ribosomal subunit protein eS26B.

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

- Molecule 75 is a protein called 40S ribosomal protein S27-A.

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

- Molecule 76 is a protein called 40S ribosomal protein S28-A.

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

- Molecule 77 is a protein called Small ribosomal subunit protein uS14A.

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

- Molecule 78 is a protein called 40S ribosomal protein S30-A.

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

- Molecule 79 is a protein called Ubiquitin.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	g	71	Total	C	N	O	S	0	0	0
			566	362	106	94	4			
79	e1	51	Total	C	N	O		0	0	0
			251	149	51	51				

- Molecule 80 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

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

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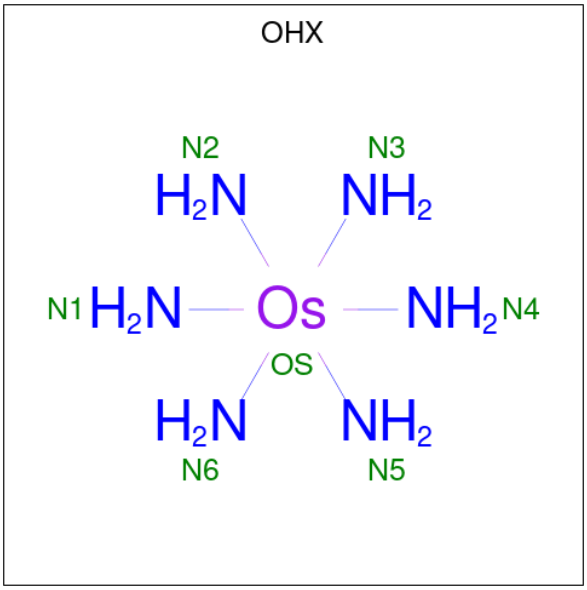
Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
80	Rb	318	Total	C	N	O	S	0	0	0
			2442	1544	418	472	8			

- Molecule 81 is osmium (III) hexammine (CCD ID: OHX) (formula: $H_{12}N_6Os$).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			
81	1	1	Total	N	Os		0	0
			7	6	1			

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 12 10 2	0	1
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 14 12 2	0	1
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 14 12 2	0	1
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 14 12 2	0	1
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 14 12 2	0	1
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 14 12 2	0	1
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 6 5 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 6 5 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 7 6 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	1	1	Total N Os 5 4 1	0	0
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81	1	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	3	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0
81	3	1	Total N Os 7 6 1	0	0
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81	4	1	Total N Os 7 6 1	0	0
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81	4	1	Total N Os 7 6 1	0	0
81	4	1	Total N Os 7 6 1	0	0
81	4	1	Total N Os 7 6 1	0	0
81	4	1	Total N Os 7 6 1	0	0
81	4	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	4	1	Total N Os 7 6 1	0	0
81	k	1	Total N Os 7 6 1	0	0
81	l	1	Total N Os 7 6 1	0	0
81	r	1	Total N Os 7 6 1	0	0
81	v	1	Total N Os 7 6 1	0	0
81	x	1	Total N Os 7 6 1	0	0
81	z	1	Total N Os 7 6 1	0	0
81	z	1	Total N Os 7 6 1	0	0
81	AC	1	Total N Os 7 6 1	0	0
81	AG	1	Total N Os 7 6 1	0	0
81	AK	1	Total N Os 7 6 1	0	0
81	AP	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0

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

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 14 12 2	0	1
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
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81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
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81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 14	N 12	Os 2	0	1
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0
81	AR	1	Total 7	N 6	Os 1	0	0

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

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

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

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

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

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

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 14 12 2	0	1
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 7 6 1	0	0
81	AR	1	Total N Os 6 5 1	0	0
81	AS	1	Total N Os 7 6 1	0	0
81	AS	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
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81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AS	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
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81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
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81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		
81	AT	1	Total	N	Os	0	0
			7	6	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	AT	1	Total N Os 7 6 1	0	0
81	CE	1	Total N Os 7 6 1	0	0
81	CE	1	Total N Os 7 6 1	0	0
81	CG	1	Total N Os 6 5 1	0	0
81	CG	1	Total N Os 7 6 1	0	0
81	CG	1	Total N Os 7 6 1	0	0
81	CK	1	Total N Os 7 6 1	0	0
81	CL	1	Total N Os 7 6 1	0	0
81	CL	1	Total N Os 14 12 2	0	1
81	CP	1	Total N Os 7 6 1	0	0
81	CP	1	Total N Os 7 6 1	0	0
81	CQ	1	Total N Os 7 6 1	0	0
81	CS	1	Total N Os 7 6 1	0	0
81	CX	1	Total N Os 7 6 1	0	0
81	CX	1	Total N Os 7 6 1	0	0
81	DD	1	Total N Os 7 6 1	0	0
81	DK	1	Total N Os 7 6 1	0	0
81	DL	1	Total N Os 7 6 1	0	0
81	DQ	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0

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

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

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

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 6 5 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	A	1	Total N Os 7 6 1	0	0
81	J	1	Total N Os 7 6 1	0	0
81	O	1	Total N Os 7 6 1	0	0
81	Q	1	Total N Os 7 6 1	0	0
81	S	1	Total N Os 7 6 1	0	0
81	T	1	Total N Os 7 6 1	0	0
81	U	1	Total N Os 7 6 1	0	0
81	e	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 14	N 12	Os 2	0	1
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0
81	sR	1	Total 7	N 6	Os 1	0	0

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

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Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	1
			14	12	2		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		
81	sR	1	Total	N	Os	0	0
			7	6	1		

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

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

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

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	sR	1	Total N Os 7 6 1	0	0
81	s1	1	Total N Os 7 6 1	0	0
81	s4	1	Total N Os 7 6 1	0	0
81	s8	1	Total N Os 7 6 1	0	0
81	c3	1	Total N Os 7 6 1	0	0
81	c5	1	Total N Os 7 6 1	0	0
81	c8	1	Total N Os 7 6 1	0	0
81	d0	1	Total N Os 7 6 1	0	0

- Molecule 82 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
82	1	476	Total Mg 476 476	0	0
82	3	11	Total Mg 11 11	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
82	4	20	Total Mg 20 20	0	0
82	j	3	Total Mg 3 3	0	0
82	k	1	Total Mg 1 1	0	0
82	l	3	Total Mg 3 3	0	0
82	n	1	Total Mg 1 1	0	0
82	o	1	Total Mg 1 1	0	0
82	r	3	Total Mg 3 3	0	0
82	s	1	Total Mg 1 1	0	0
82	t	3	Total Mg 3 3	0	0
82	v	3	Total Mg 3 3	0	0
82	w	1	Total Mg 1 1	0	0
82	x	8	Total Mg 8 8	0	0
82	z	1	Total Mg 1 1	0	0
82	6	3	Total Mg 3 3	0	0
82	AB	5	Total Mg 5 5	0	0
82	AF	4	Total Mg 4 4	0	0
82	AG	2	Total Mg 2 2	0	0
82	AK	1	Total Mg 1 1	0	0
82	AR	519	Total Mg 519 519	0	0
82	AS	20	Total Mg 20 20	0	0
82	AT	17	Total Mg 17 17	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
82	CD	3	Total Mg 3 3	0	0
82	CE	6	Total Mg 6 6	0	0
82	CF	2	Total Mg 2 2	0	0
82	CG	1	Total Mg 1 1	0	0
82	CI	3	Total Mg 3 3	0	0
82	CK	1	Total Mg 1 1	0	0
82	CL	1	Total Mg 1 1	0	0
82	CM	2	Total Mg 2 2	0	0
82	CO	1	Total Mg 1 1	0	0
82	CP	3	Total Mg 3 3	0	0
82	CQ	4	Total Mg 4 4	0	0
82	CR	5	Total Mg 5 5	0	0
82	CU	1	Total Mg 1 1	0	0
82	CX	1	Total Mg 1 1	0	0
82	CY	1	Total Mg 1 1	0	0
82	DA	2	Total Mg 2 2	0	0
82	DC	3	Total Mg 3 3	0	0
82	DF	1	Total Mg 1 1	0	0
82	DH	2	Total Mg 2 2	0	0
82	DI	1	Total Mg 1 1	0	0
82	DL	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
82	DO	1	Total Mg 1 1	0	0
82	DP	1	Total Mg 1 1	0	0
82	DQ	2	Total Mg 2 2	0	0
82	sM	2	Total Mg 2 2	0	0
82	A	132	Total Mg 132 132	0	0
82	F	1	Total Mg 1 1	0	0
82	H	1	Total Mg 1 1	0	0
82	O	1	Total Mg 1 1	0	0
82	P	1	Total Mg 1 1	0	0
82	X	1	Total Mg 1 1	0	0
82	Y	1	Total Mg 1 1	0	0
82	b	1	Total Mg 1 1	0	0
82	sR	144	Total Mg 144 144	0	0
82	s1	1	Total Mg 1 1	0	0
82	s2	1	Total Mg 1 1	0	0
82	s4	1	Total Mg 1 1	0	0
82	s8	2	Total Mg 2 2	0	0
82	s9	1	Total Mg 1 1	0	0
82	c1	1	Total Mg 1 1	0	0
82	c4	2	Total Mg 2 2	0	0
82	c6	2	Total Mg 2 2	0	0

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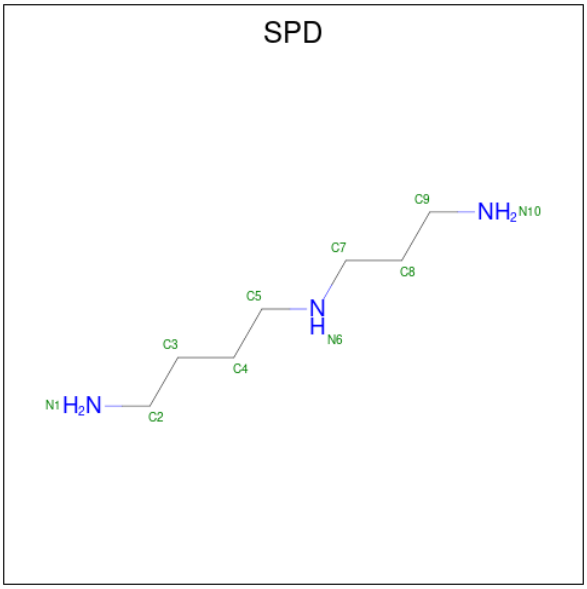
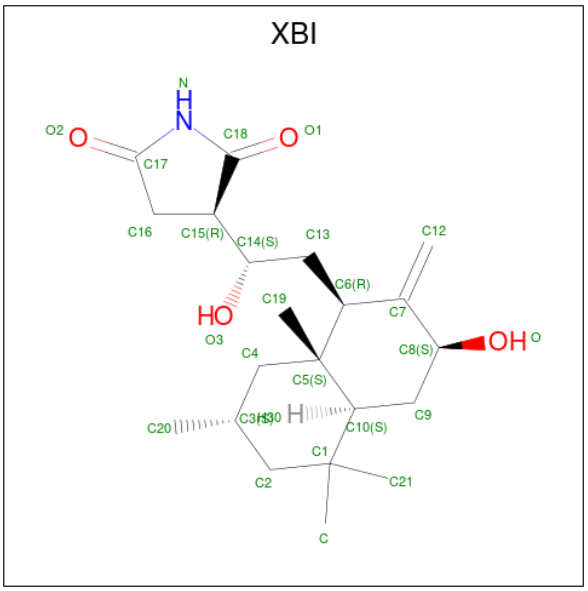
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
82	c8	1	Total Mg 1 1	0	0
82	c9	1	Total Mg 1 1	0	0
82	d3	4	Total Mg 4 4	0	0
82	d4	3	Total Mg 3 3	0	0
82	d6	2	Total Mg 2 2	0	0
82	d9	1	Total Mg 1 1	0	0

- Molecule 83 is SPERMIDINE (CCD ID: SPD) (formula: $C_7H_{19}N_3$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
83	1	1	Total C N 10 7 3	0	0
83	AR	1	Total C N 10 7 3	0	0

- Molecule 84 is (3 {R})-3-[(1 {S})-2-[(1 {R},3 {S},4 {a} {S},7 {S},8 {a} {S})-5,5,7,8 {a}-tetramethyl-2-methylidene-3-oxidanyl-3,4,4 {a},6,7,8-hexahydro-1 {H}-naphthalen-1-yl]-1-oxidanyl-ethyl]pyrrolidine-2,5-dione (CCD ID: XBI) (formula: $C_{21}H_{33}NO_4$).



Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	1	1	Total C N O 26 21 1 4	0	0
84	AR	1	Total C N O 26 21 1 4	0	0

- Molecule 85 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	AH	1	Total Zn 1 1	0	0
85	AK	1	Total Zn 1 1	0	0
85	AN	1	Total Zn 1 1	0	0
85	AP	1	Total Zn 1 1	0	0
85	AQ	1	Total Zn 1 1	0	0
85	DI	1	Total Zn 1 1	0	0
85	DL	1	Total Zn 1 1	0	0
85	DO	1	Total Zn 1 1	0	0
85	DQ	1	Total Zn 1 1	0	0
85	DR	1	Total Zn 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
85	b	1	Total Zn 1 1	0	0
85	c	1	Total Zn 1 1	0	0
85	e	1	Total Zn 1 1	0	0
85	g	1	Total Zn 1 1	0	0
85	d6	1	Total Zn 1 1	0	0
85	d7	1	Total Zn 1 1	0	0
85	d9	1	Total Zn 1 1	0	0
85	e1	1	Total Zn 1 1	0	0

- Molecule 86 is water.

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	53	Total O 53 53	0	0
86	j	1	Total O 1 1	0	0
86	AE	1	Total O 1 1	0	0
86	AF	3	Total O 3 3	0	0
86	AR	82	Total O 82 82	0	0
86	AT	3	Total O 3 3	0	0
86	CP	2	Total O 2 2	0	0
86	CR	1	Total O 1 1	0	0
86	DG	3	Total O 3 3	0	0
86	A	33	Total O 33 33	0	0
86	M	1	Total O 1 1	0	0

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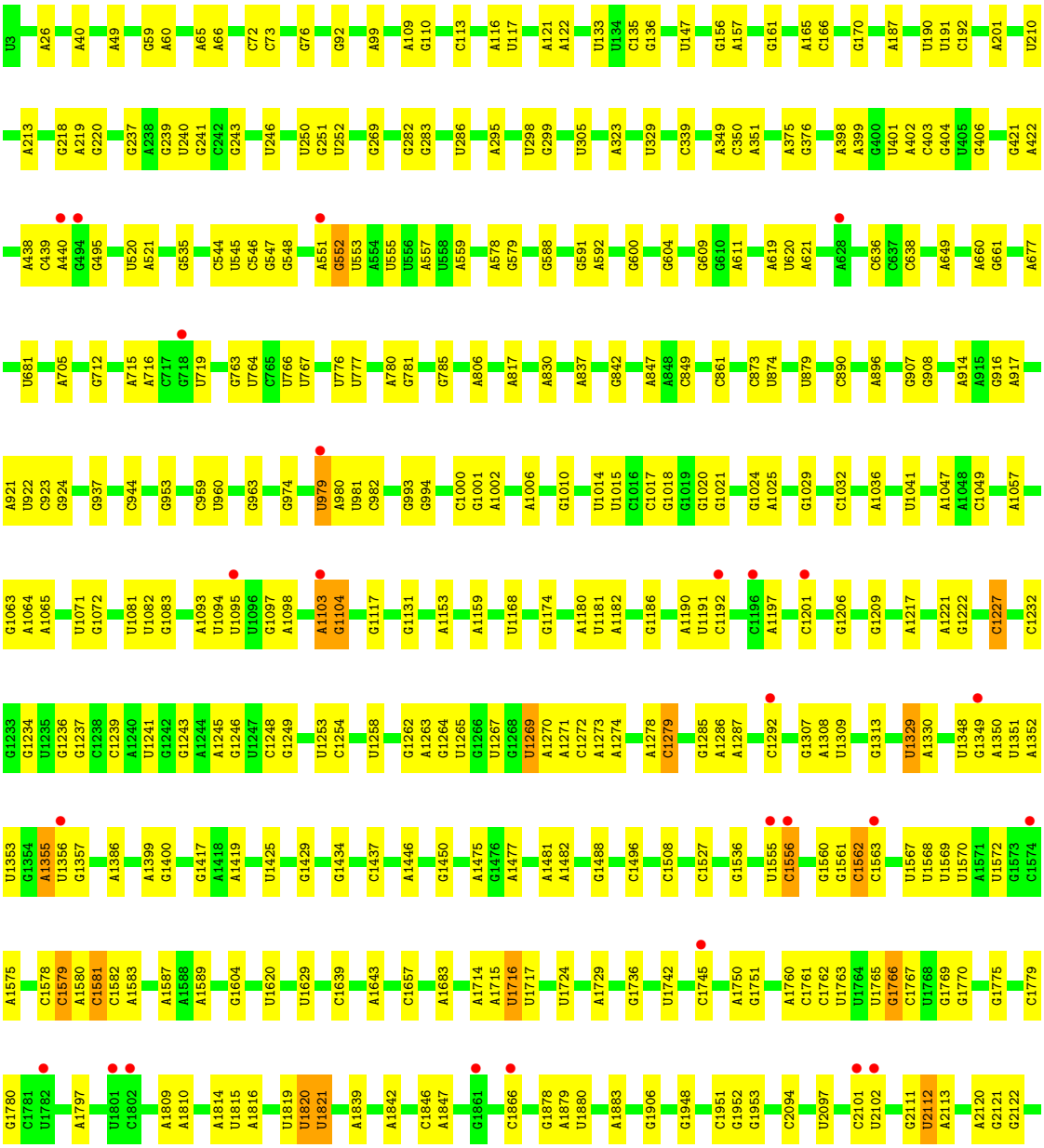
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	sR	23	Total	O	0	0
			23	23		

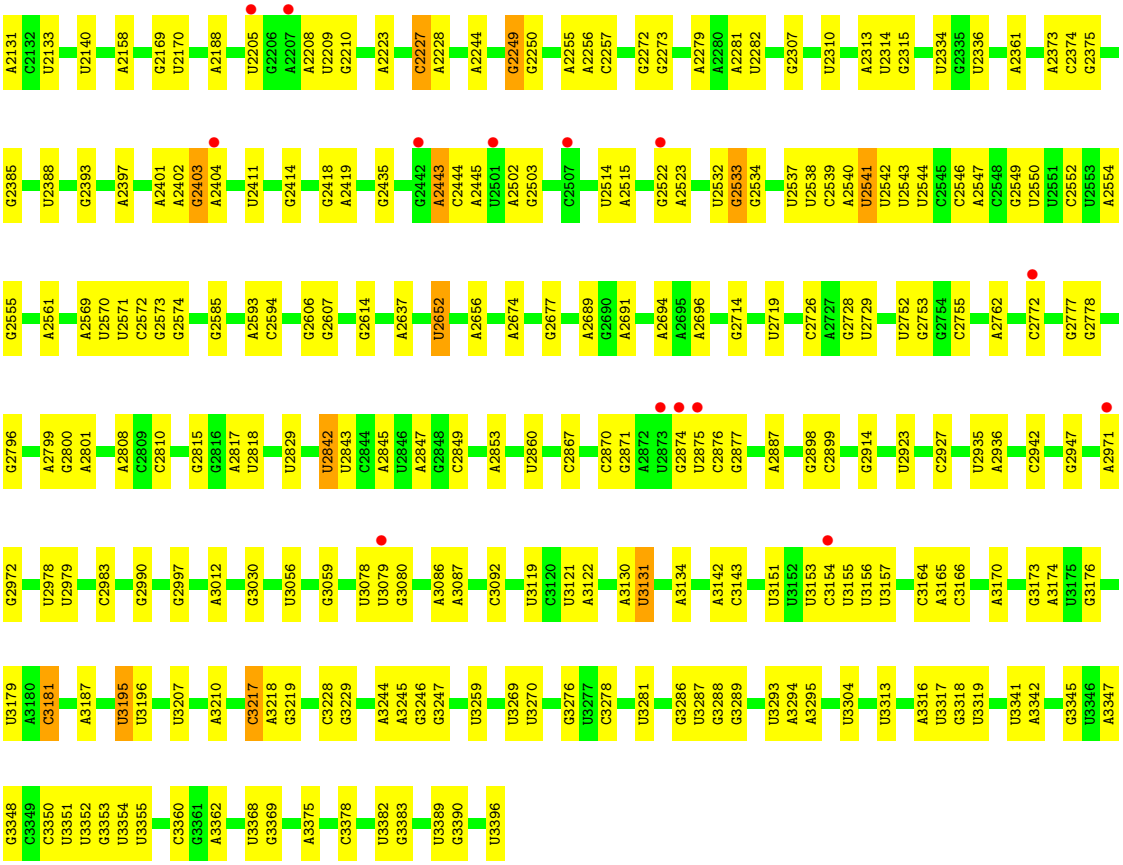
3 Residue-property plots (i)

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: 25S ribosomal RNA

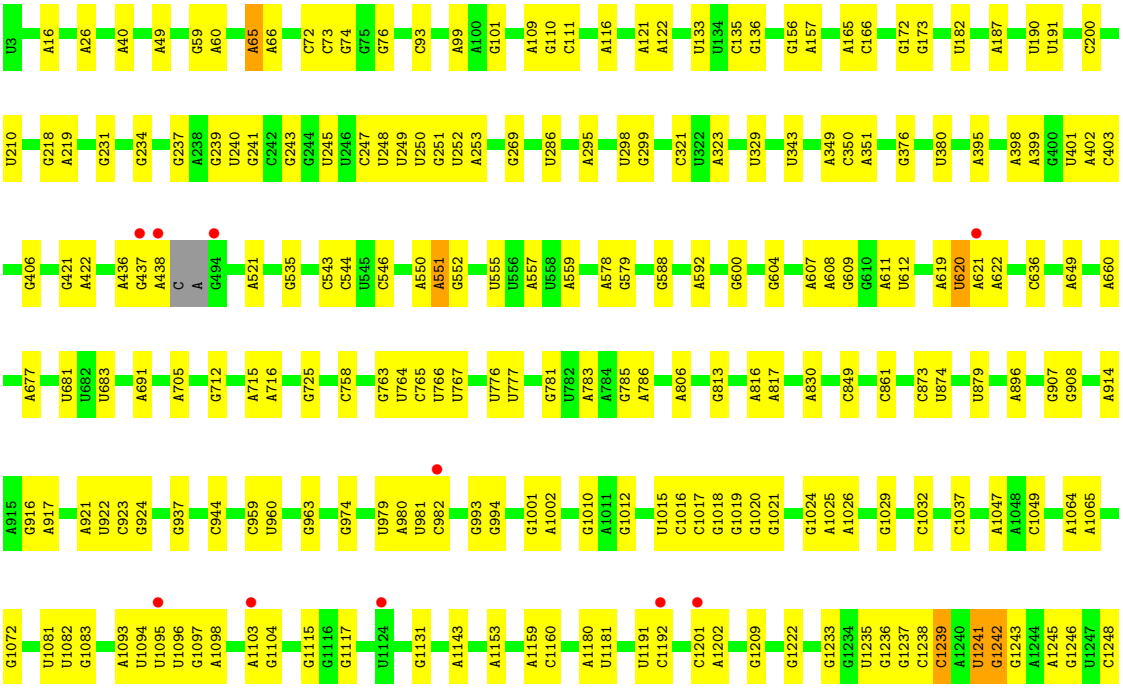
Chain 1:

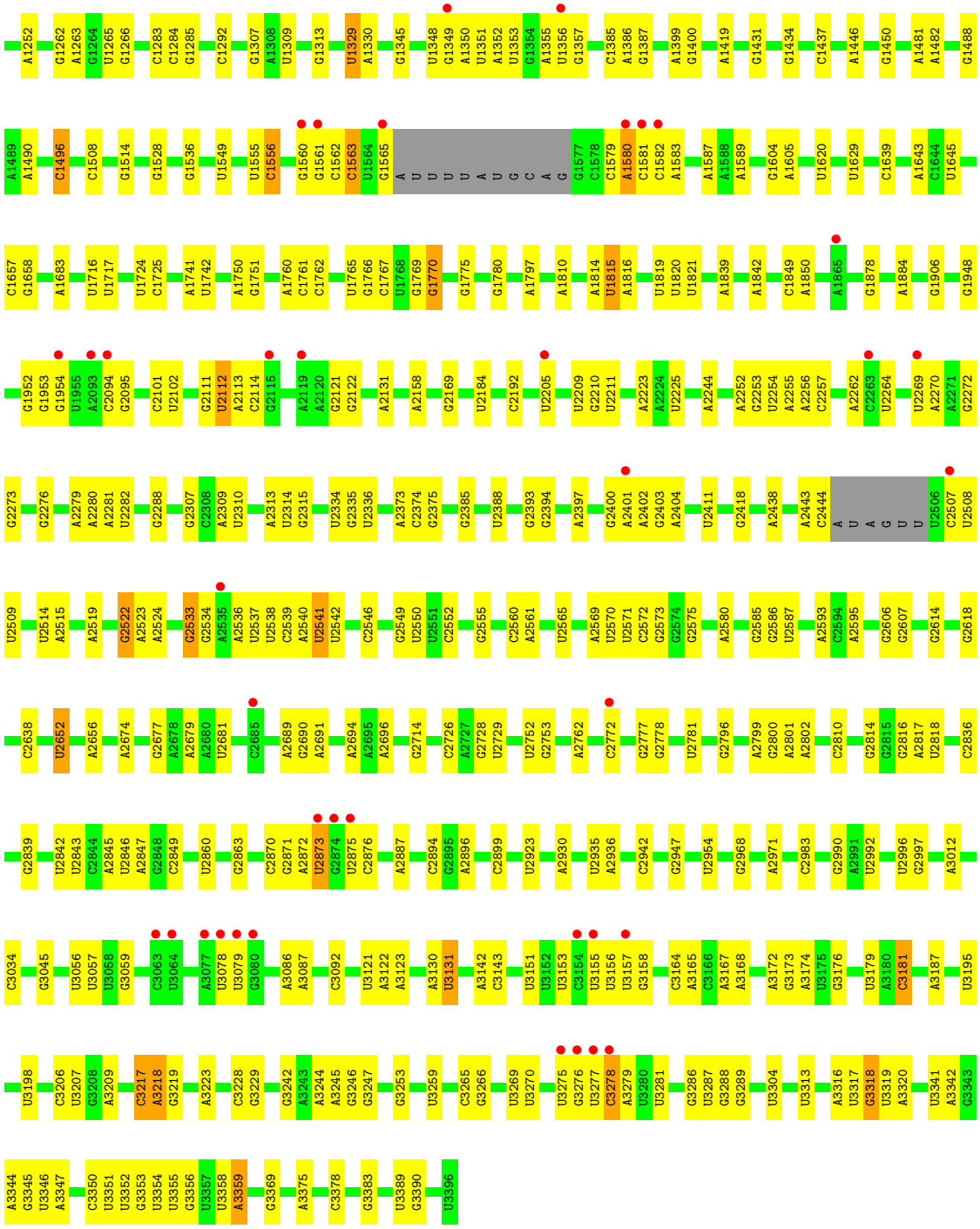




• Molecule 1: 25S ribosomal RNA

Chain AR:



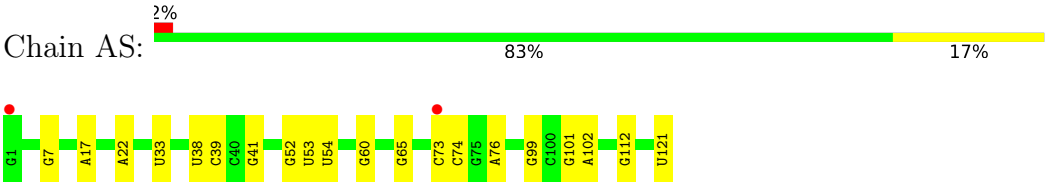


• Molecule 2: 5S ribosomal RNA

Chain 3:

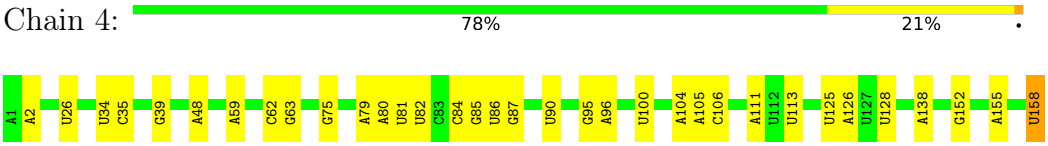
• Molecule 2: 5S ribosomal RNA

Chain AS:



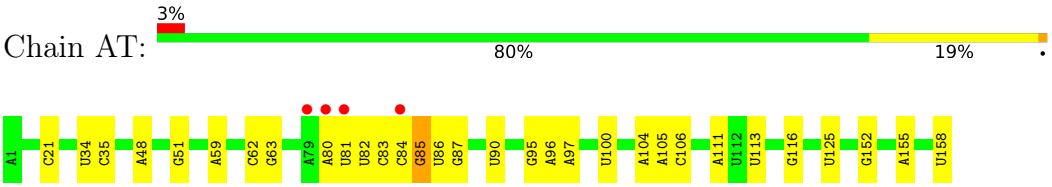
• Molecule 3: 5.8 ribosomal RNA

Chain 4:



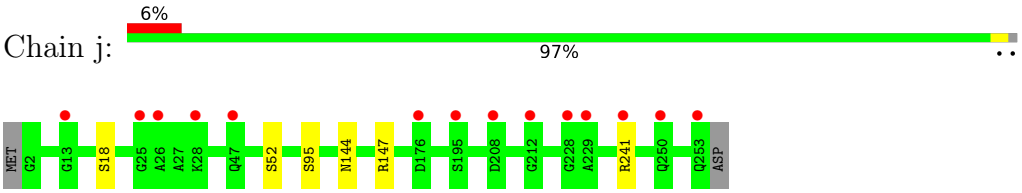
• Molecule 3: 5.8 ribosomal RNA

Chain AT:



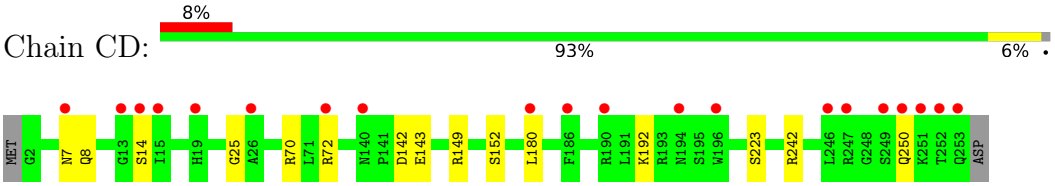
• Molecule 4: 60S ribosomal protein L2-A

Chain j:



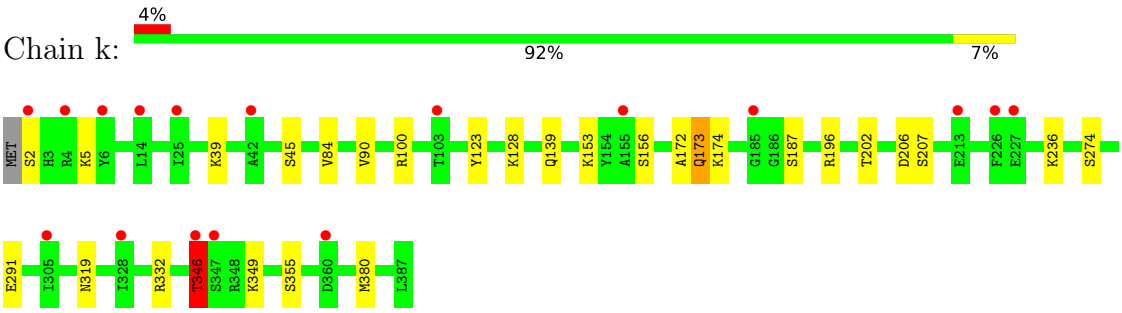
• Molecule 4: 60S ribosomal protein L2-A

Chain CD:



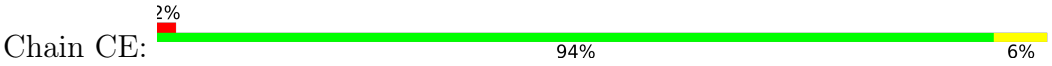
• Molecule 5: 60S ribosomal protein L3

Chain k:

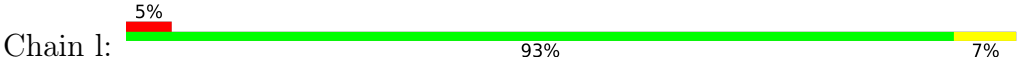


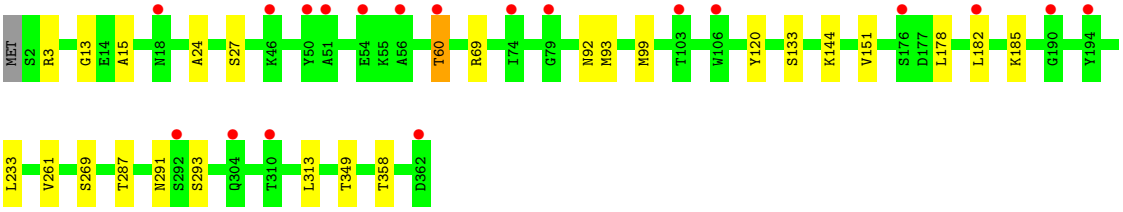
• Molecule 5: 60S ribosomal protein L3

Chain CE:

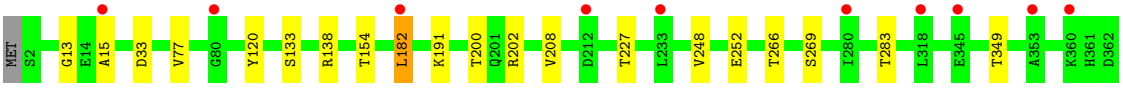


• Molecule 6: 60S ribosomal protein L4-A

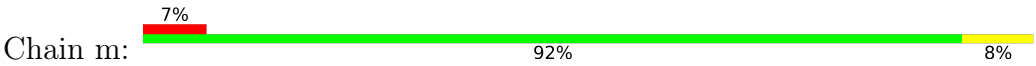


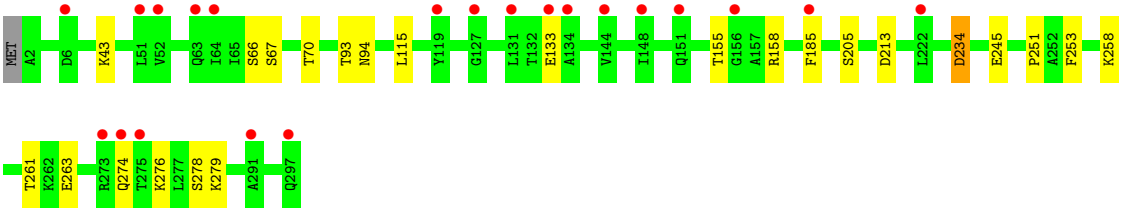


• Molecule 6: 60S ribosomal protein L4-A

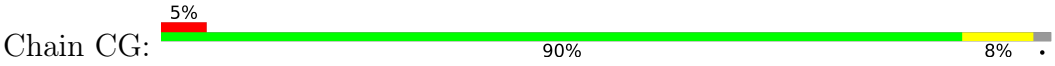


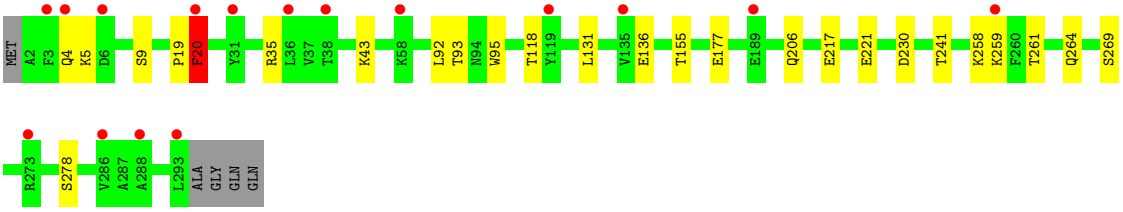
• Molecule 7: 60S ribosomal protein L5



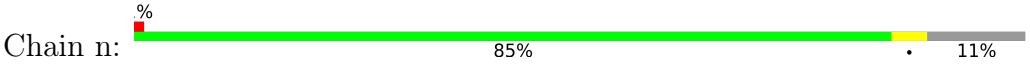


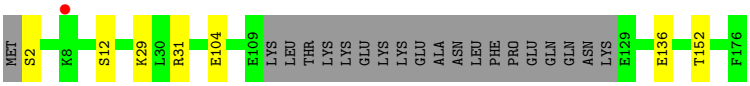
• Molecule 7: 60S ribosomal protein L5



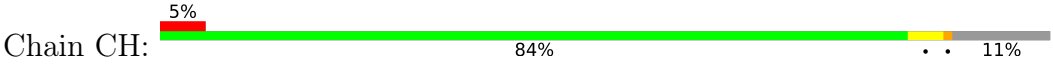


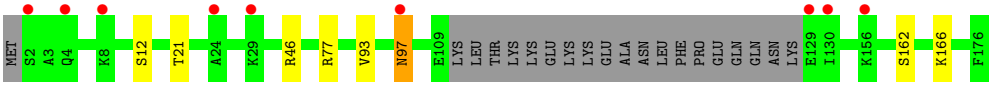
• Molecule 8: 60S ribosomal protein L6-A



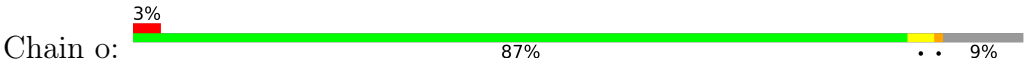


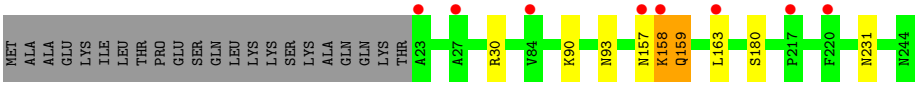
• Molecule 8: 60S ribosomal protein L6-A



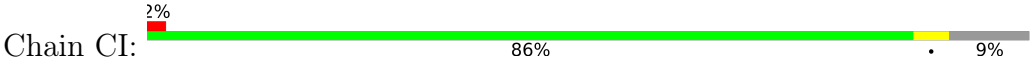


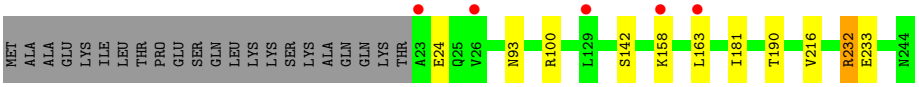
• Molecule 9: 60S ribosomal protein L7-A



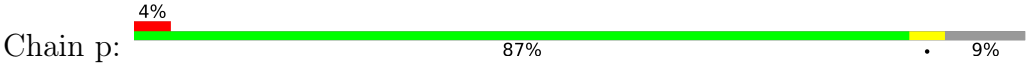


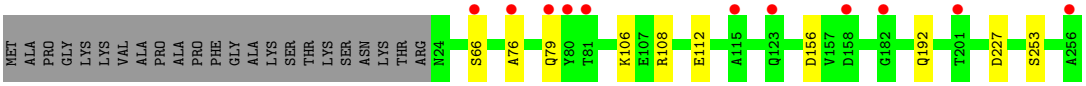
• Molecule 9: 60S ribosomal protein L7-A



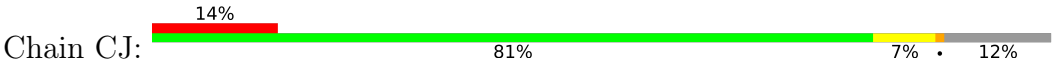


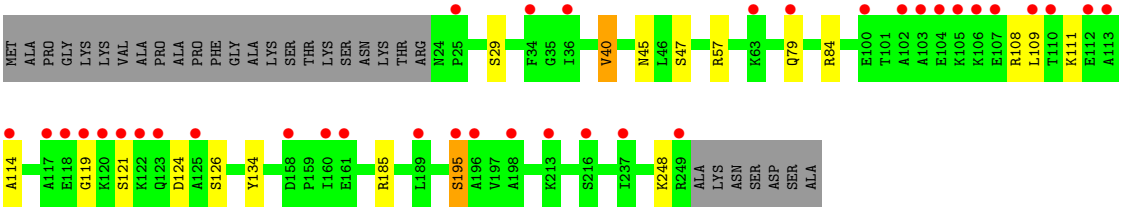
• Molecule 10: 60S ribosomal protein L8-A



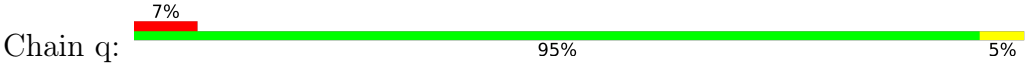


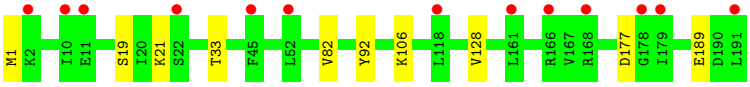
• Molecule 10: 60S ribosomal protein L8-A



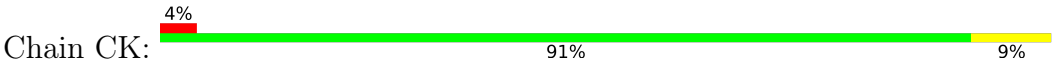


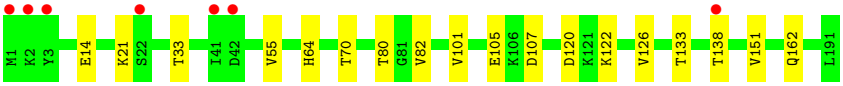
• Molecule 11: 60S ribosomal protein L9-A



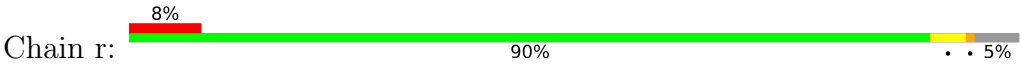


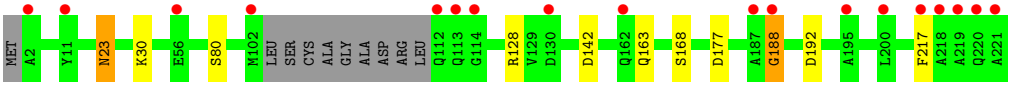
• Molecule 11: 60S ribosomal protein L9-A



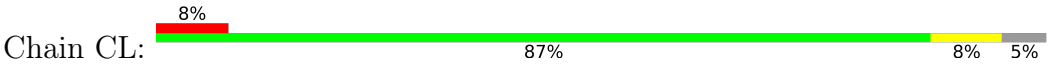


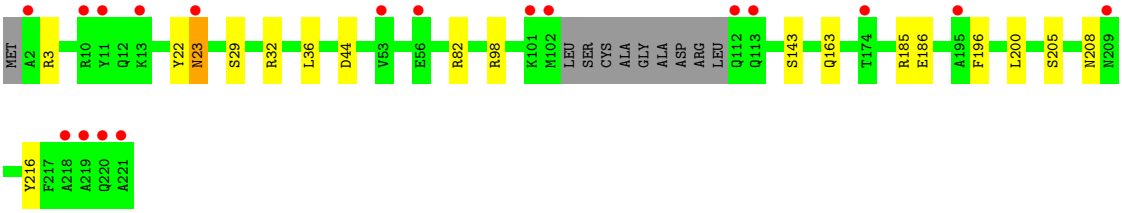
• Molecule 12: 60S ribosomal protein L10



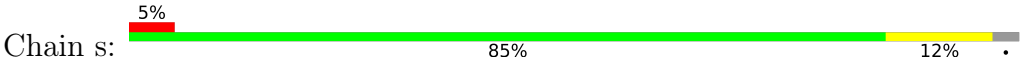


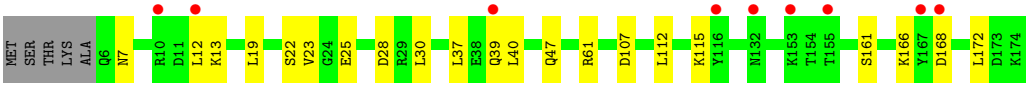
• Molecule 12: 60S ribosomal protein L10



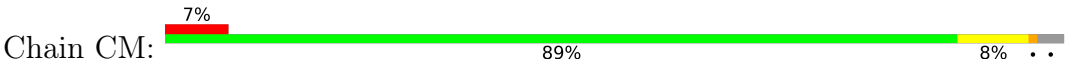


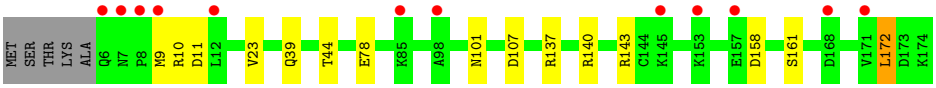
• Molecule 13: Large ribosomal subunit protein uL5B



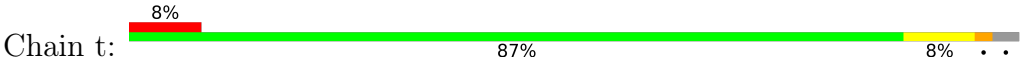


• Molecule 13: Large ribosomal subunit protein uL5B

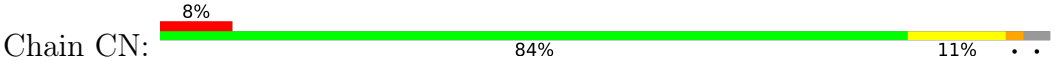


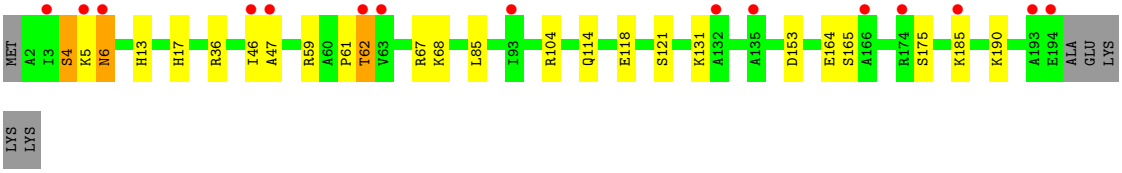


• Molecule 14: 60S ribosomal protein L13-A

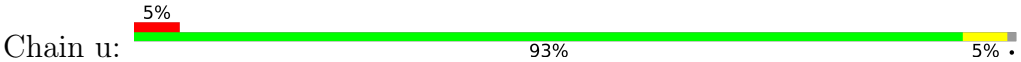


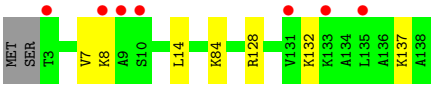
• Molecule 14: 60S ribosomal protein L13-A



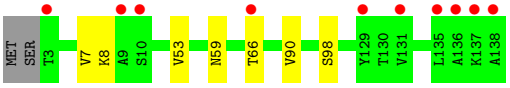


• Molecule 15: 60S ribosomal protein L14-A

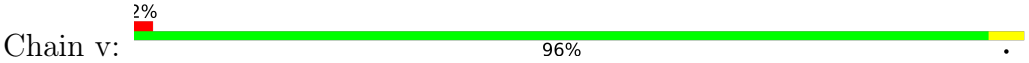




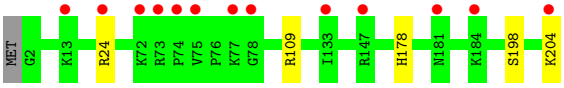
• Molecule 15: 60S ribosomal protein L14-A



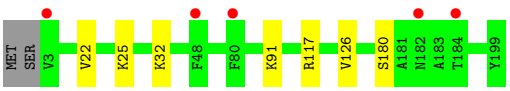
• Molecule 16: 60S ribosomal protein L15-A



• Molecule 16: 60S ribosomal protein L15-A

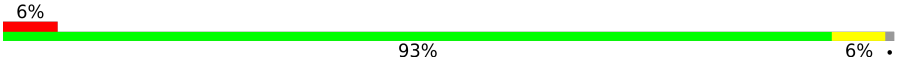


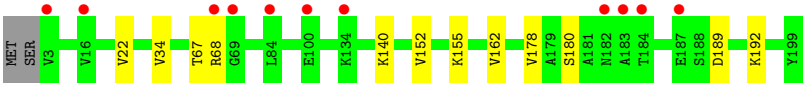
• Molecule 17: 60S ribosomal protein L16-A



• Molecule 17: 60S ribosomal protein L16-A

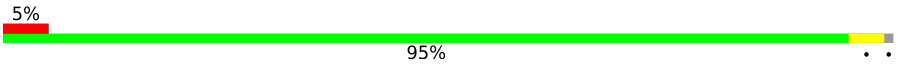
Chain CQ:

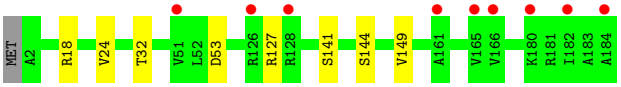




• Molecule 18: 60S ribosomal protein L17-A

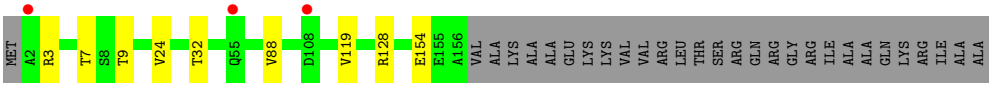
Chain x:





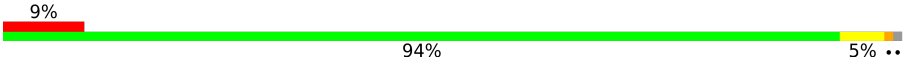
• Molecule 18: 60S ribosomal protein L17-A

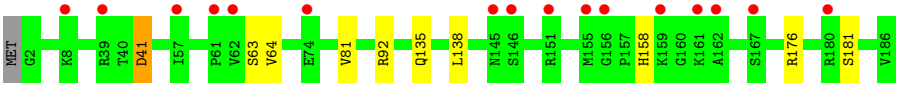
Chain CR:



• Molecule 19: 60S ribosomal protein L18-A

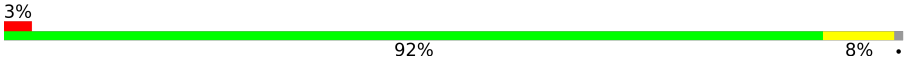
Chain y:

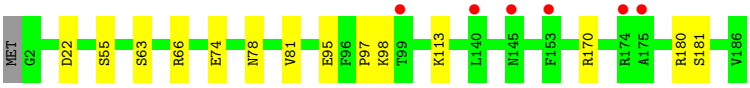




• Molecule 19: 60S ribosomal protein L18-A

Chain CS:



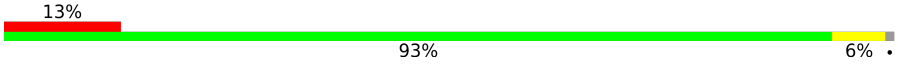


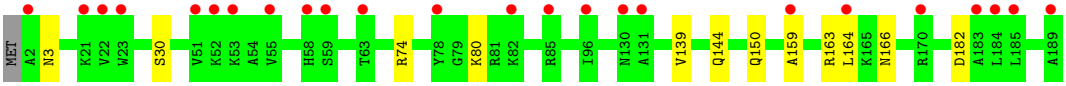
• Molecule 20: 60S ribosomal protein L19-A

Chain z:

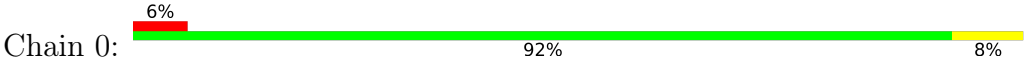
• Molecule 20: 60S ribosomal protein L19-A

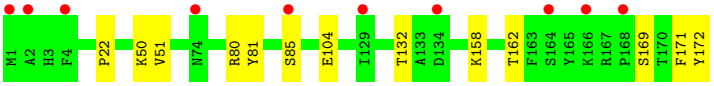
Chain CT:



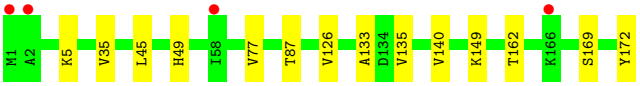


• Molecule 21: 60S ribosomal protein L20-A

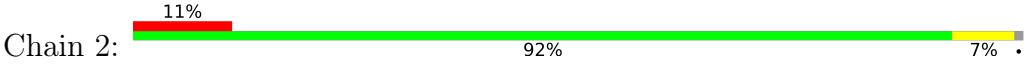


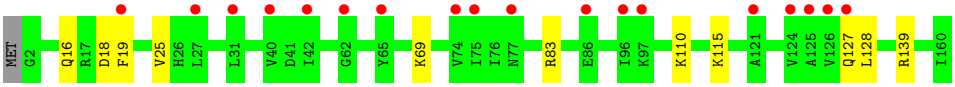


• Molecule 21: 60S ribosomal protein L20-A

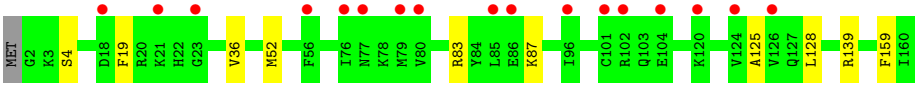


• Molecule 22: 60S ribosomal protein L21-A

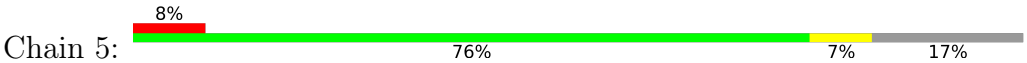


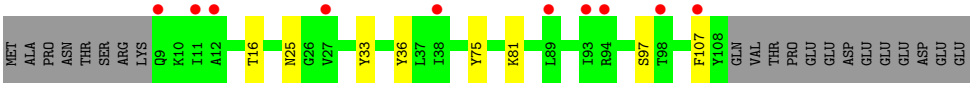


• Molecule 22: 60S ribosomal protein L21-A

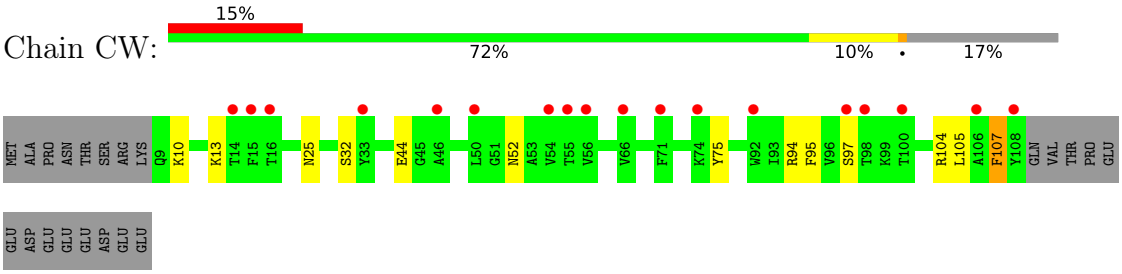


• Molecule 23: 60S ribosomal protein L22-A



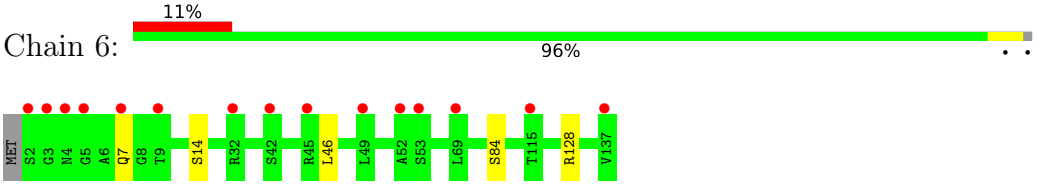


• Molecule 23: 60S ribosomal protein L22-A



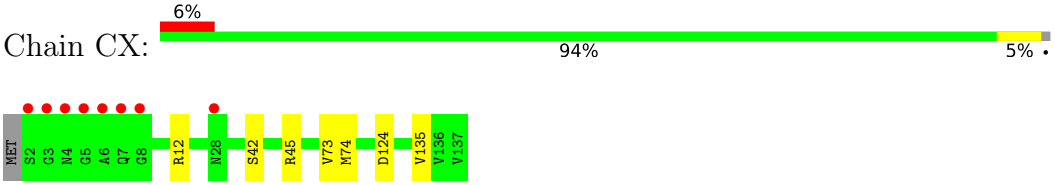
• Molecule 24: 60S ribosomal protein L23-A

Chain 6:



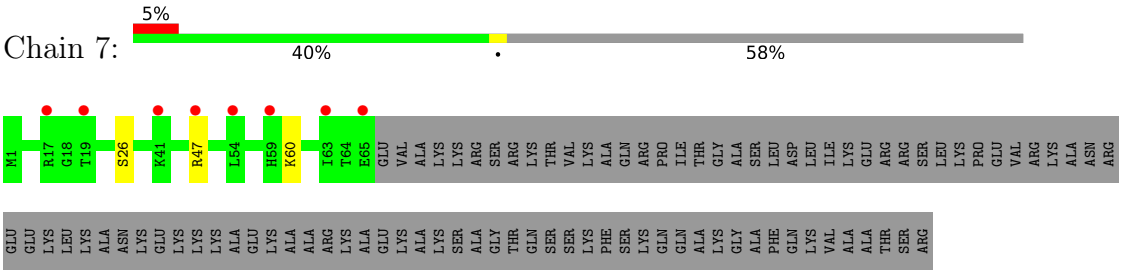
• Molecule 24: 60S ribosomal protein L23-A

Chain CX:



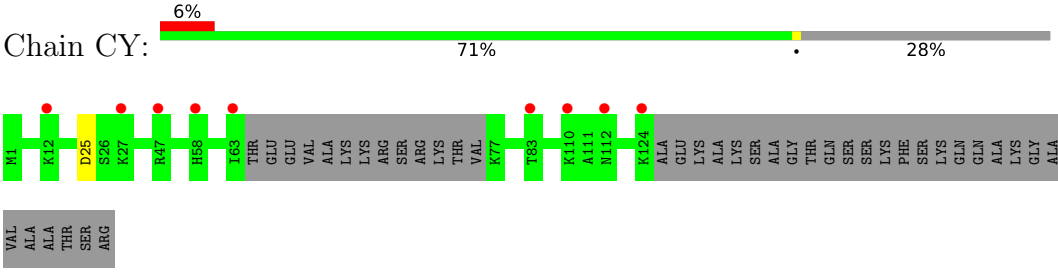
• Molecule 25: 60S ribosomal protein L24-A

Chain 7:



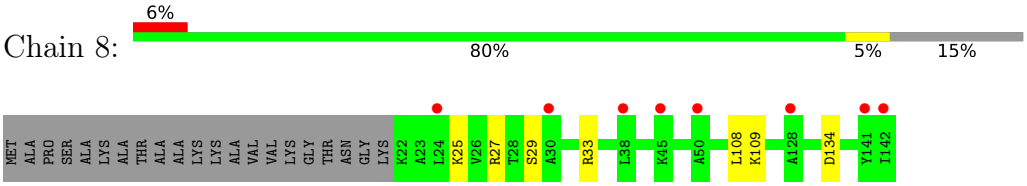
• Molecule 25: 60S ribosomal protein L24-A

Chain CY:



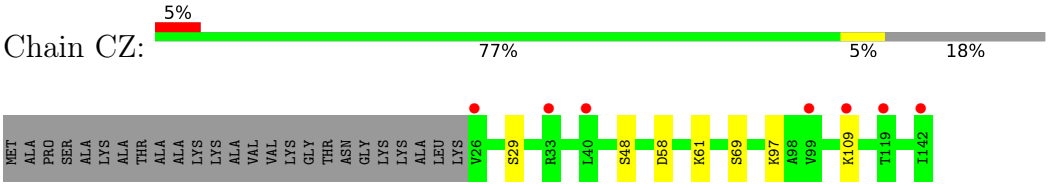
• Molecule 26: 60S ribosomal protein L25

Chain 8:



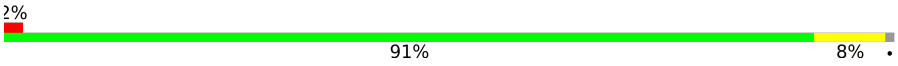
• Molecule 26: 60S ribosomal protein L25

Chain CZ:



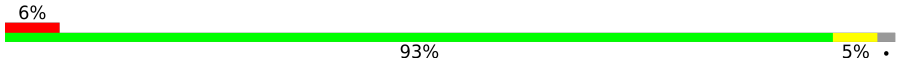
• Molecule 27: 60S ribosomal protein L26-A

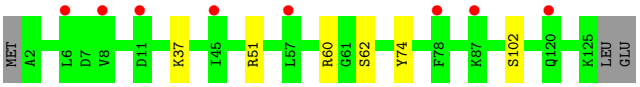
Chain 9:



• Molecule 27: 60S ribosomal protein L26-A

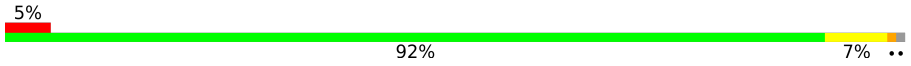
Chain DA:

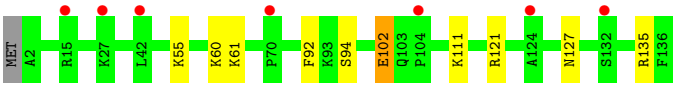




• Molecule 28: 60S ribosomal protein L27-A

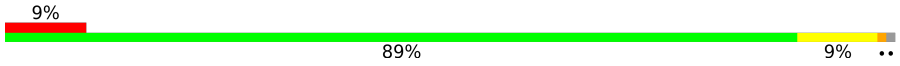
Chain AA:

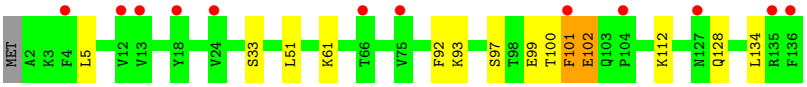




• Molecule 28: 60S ribosomal protein L27-A

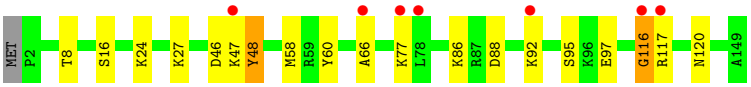
Chain DB:





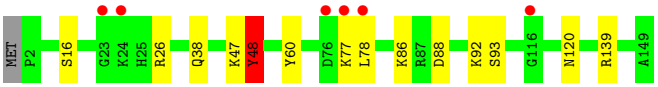
• Molecule 29: 60S ribosomal protein L28

Chain AB:



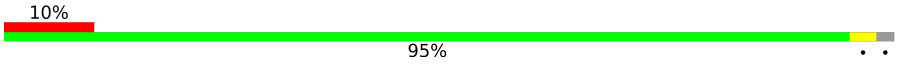
• Molecule 29: 60S ribosomal protein L28

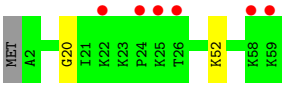
Chain DC:



• Molecule 30: 60S ribosomal protein L29

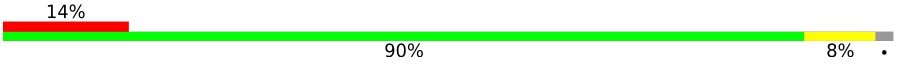
Chain AC:

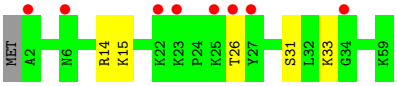




• Molecule 30: 60S ribosomal protein L29

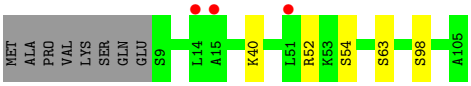
Chain DD:





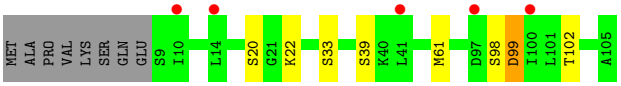
• Molecule 31: 60S ribosomal protein L30

Chain AD:



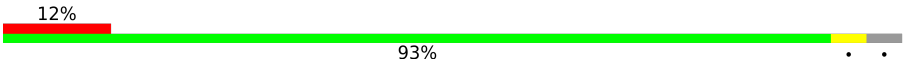
• Molecule 31: 60S ribosomal protein L30

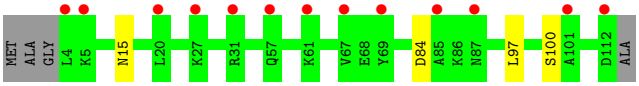
Chain DE:



• Molecule 32: 60S ribosomal protein L31-A

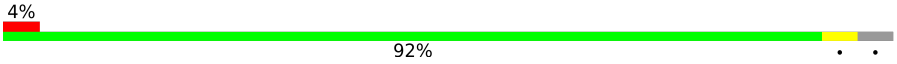
Chain AE:

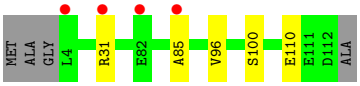




• Molecule 32: 60S ribosomal protein L31-A

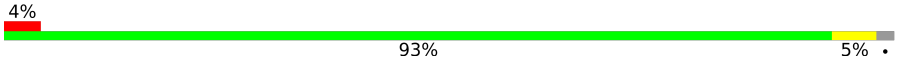
Chain DF:





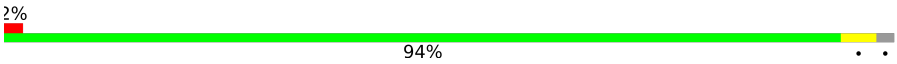
• Molecule 33: 60S ribosomal protein L32

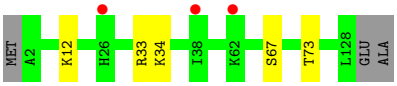
Chain AF:



• Molecule 33: 60S ribosomal protein L32

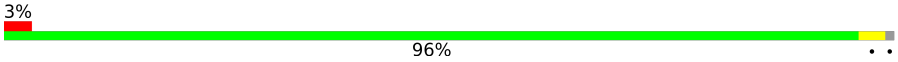
Chain DG:

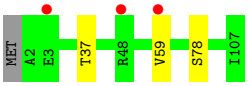




• Molecule 34: 60S ribosomal protein L33-A

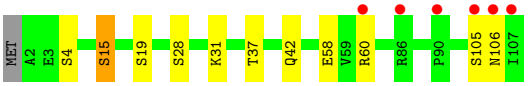
Chain AG:





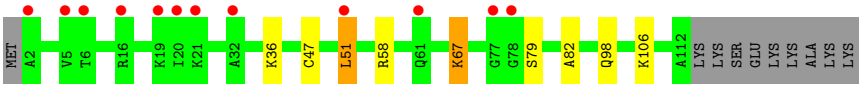
• Molecule 34: 60S ribosomal protein L33-A

Chain DH:



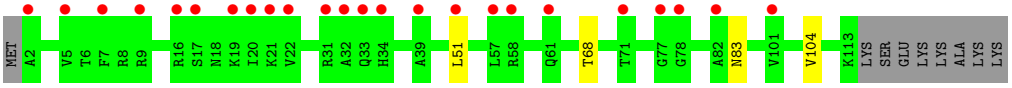
• Molecule 35: 60S ribosomal protein L34-A

Chain AH:



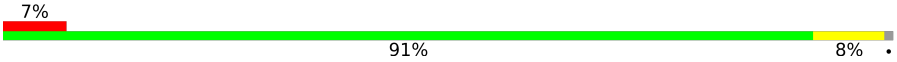
• Molecule 35: 60S ribosomal protein L34-A

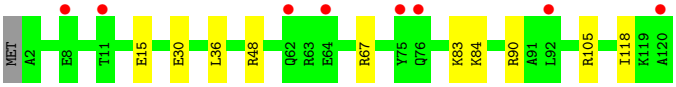
Chain DI:



• Molecule 36: 60S ribosomal protein L35-A

Chain AI:



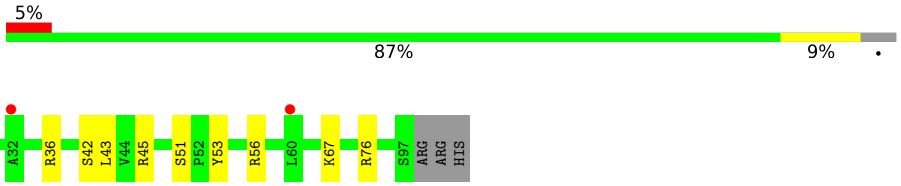


• Molecule 36: 60S ribosomal protein L35-A

Chain DJ:

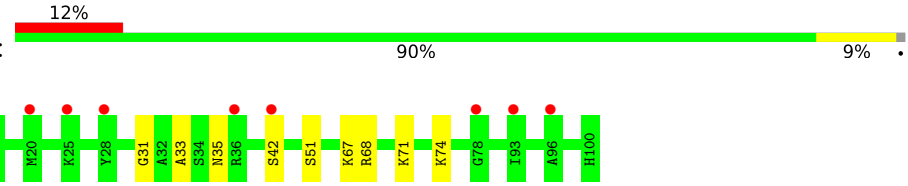
• Molecule 37: 60S ribosomal protein L36-A

Chain AJ:



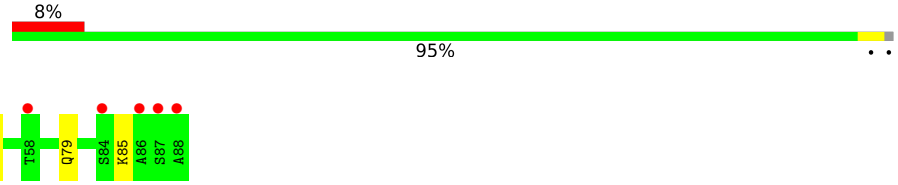
• Molecule 37: 60S ribosomal protein L36-A

Chain DK:



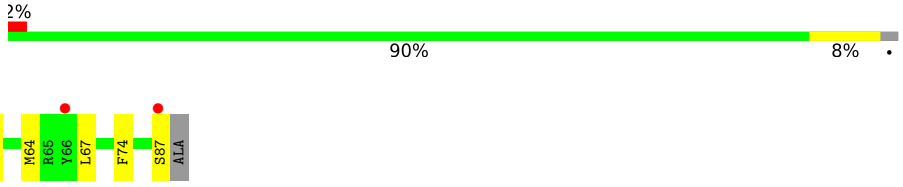
• Molecule 38: 60S ribosomal protein L37-A

Chain AK:



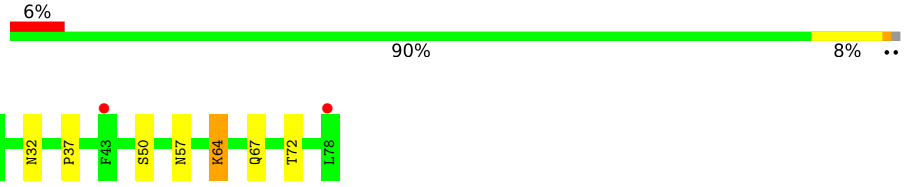
• Molecule 38: 60S ribosomal protein L37-A

Chain DL:



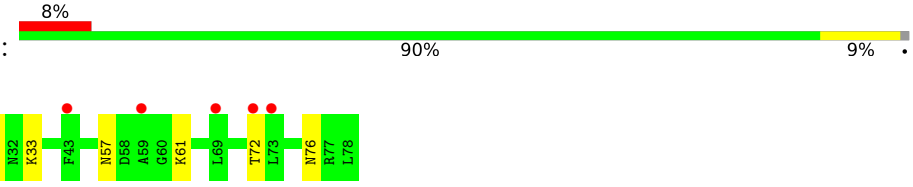
• Molecule 39: 60S ribosomal protein L38

Chain AL:



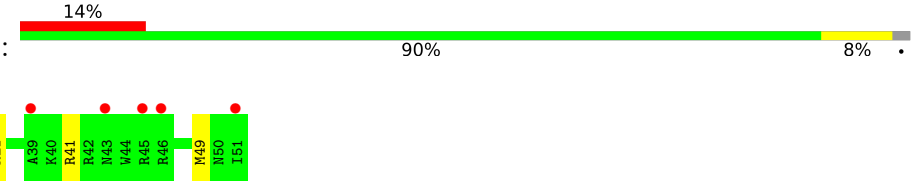
• Molecule 39: 60S ribosomal protein L38

Chain DM:



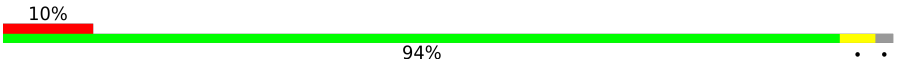
• Molecule 40: 60S ribosomal protein L39

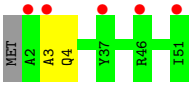
Chain AM:



• Molecule 40: 60S ribosomal protein L39

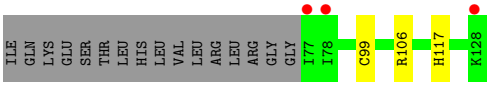
Chain DN:





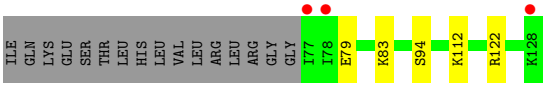
• Molecule 41: Ubiquitin-60S ribosomal protein L40

Chain AN:



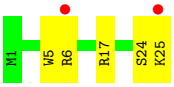
• Molecule 41: Ubiquitin-60S ribosomal protein L40

Chain DO:



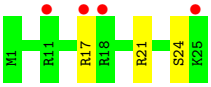
• Molecule 42: Large ribosomal subunit protein eL41B

Chain AO:



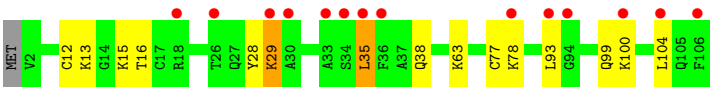
• Molecule 42: Large ribosomal subunit protein eL41B

Chain DP:



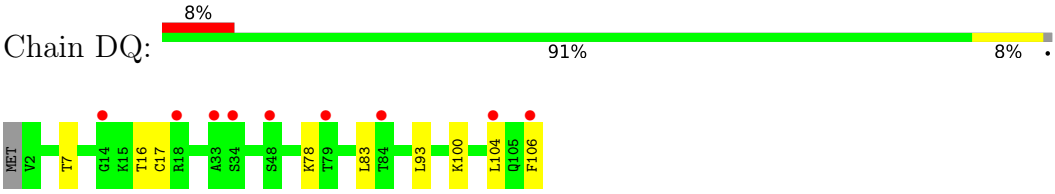
• Molecule 43: 60S ribosomal protein L42-A

Chain AP:



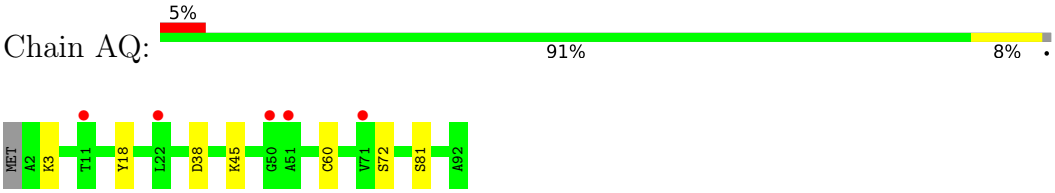
• Molecule 43: 60S ribosomal protein L42-A

Chain DQ:



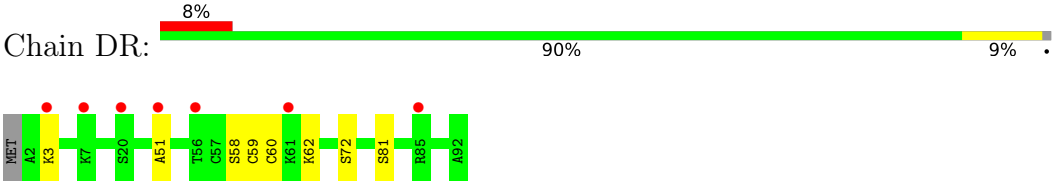
• Molecule 44: 60S ribosomal protein L43-A

Chain AQ:



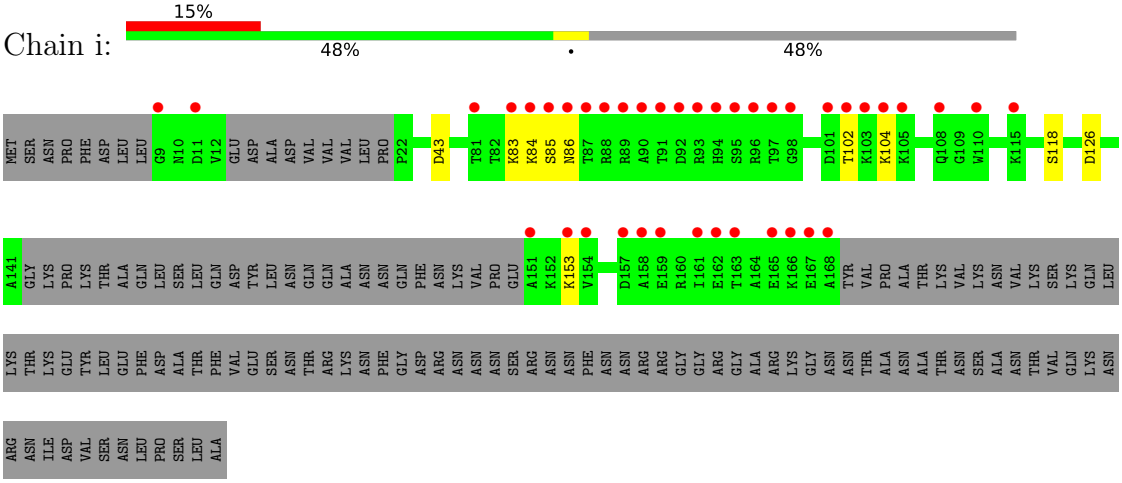
• Molecule 44: 60S ribosomal protein L43-A

Chain DR:



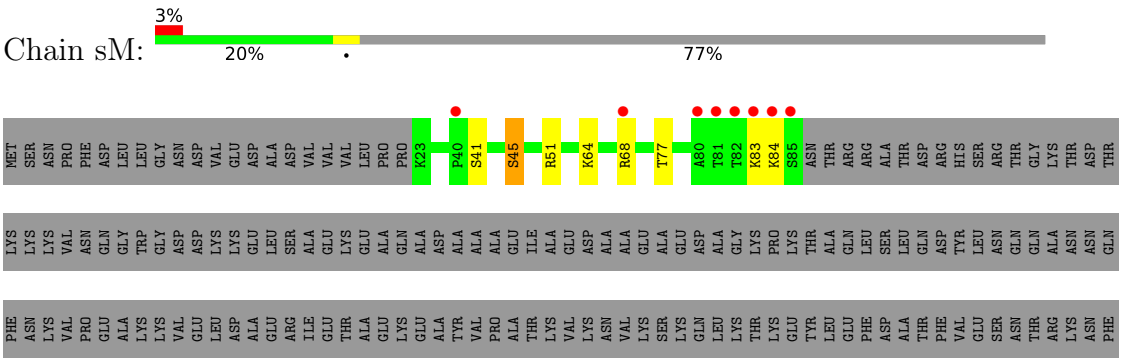
• Molecule 45: Suppressor protein STM1

Chain i:



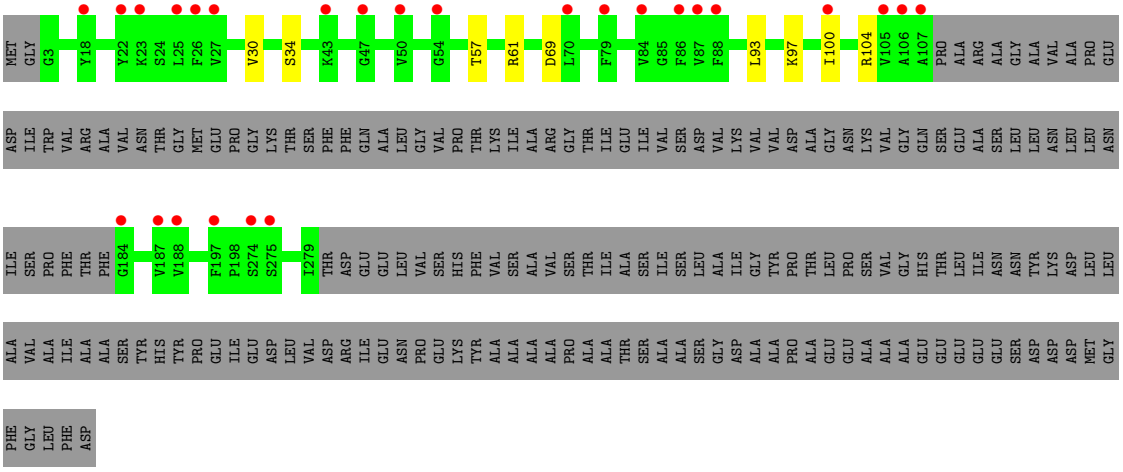
• Molecule 45: Suppressor protein STM1

Chain sM:



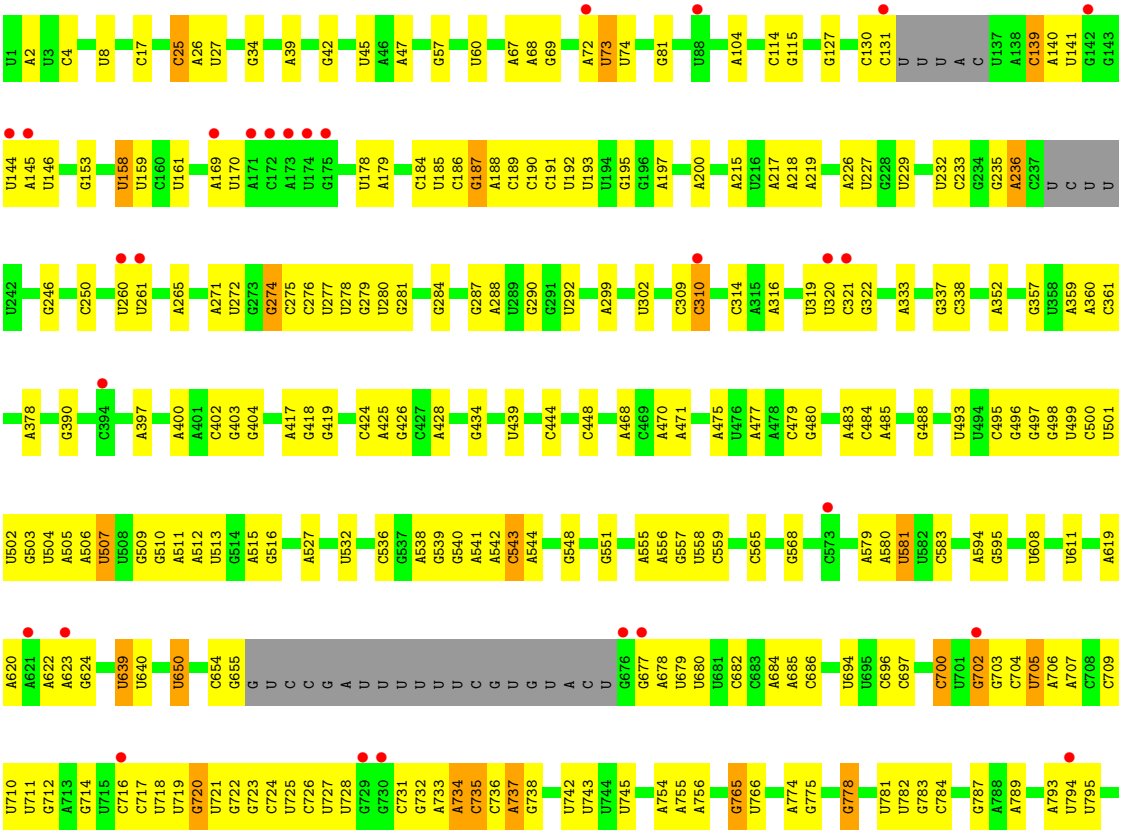
• Molecule 46: 60S acidic ribosomal protein P0

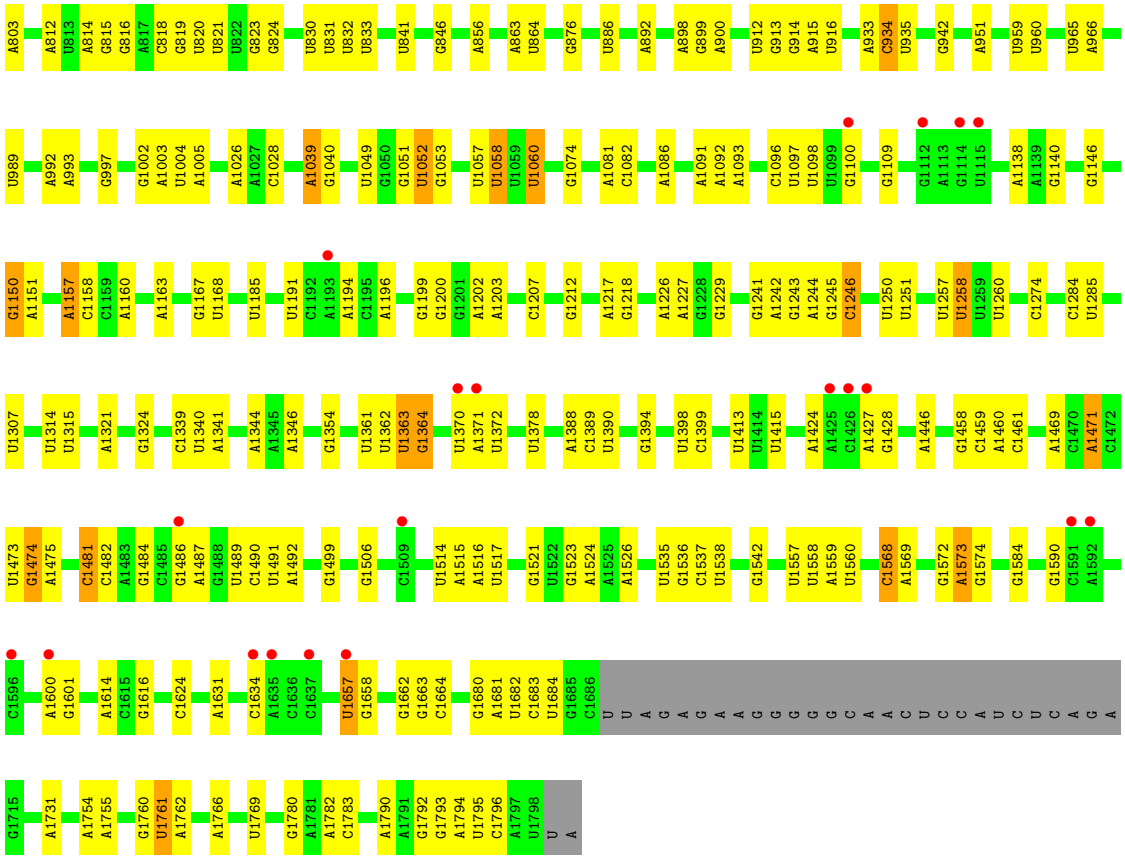
Chain p0:



• Molecule 47: 16S ribosomal RNA

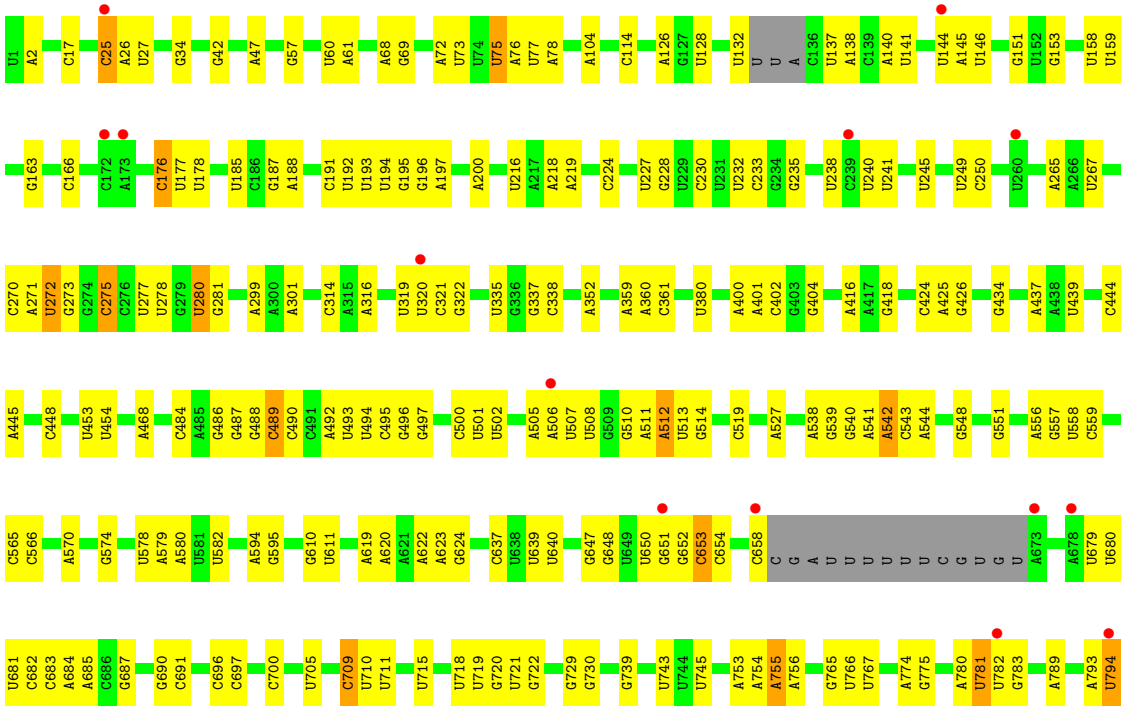
Chain A:

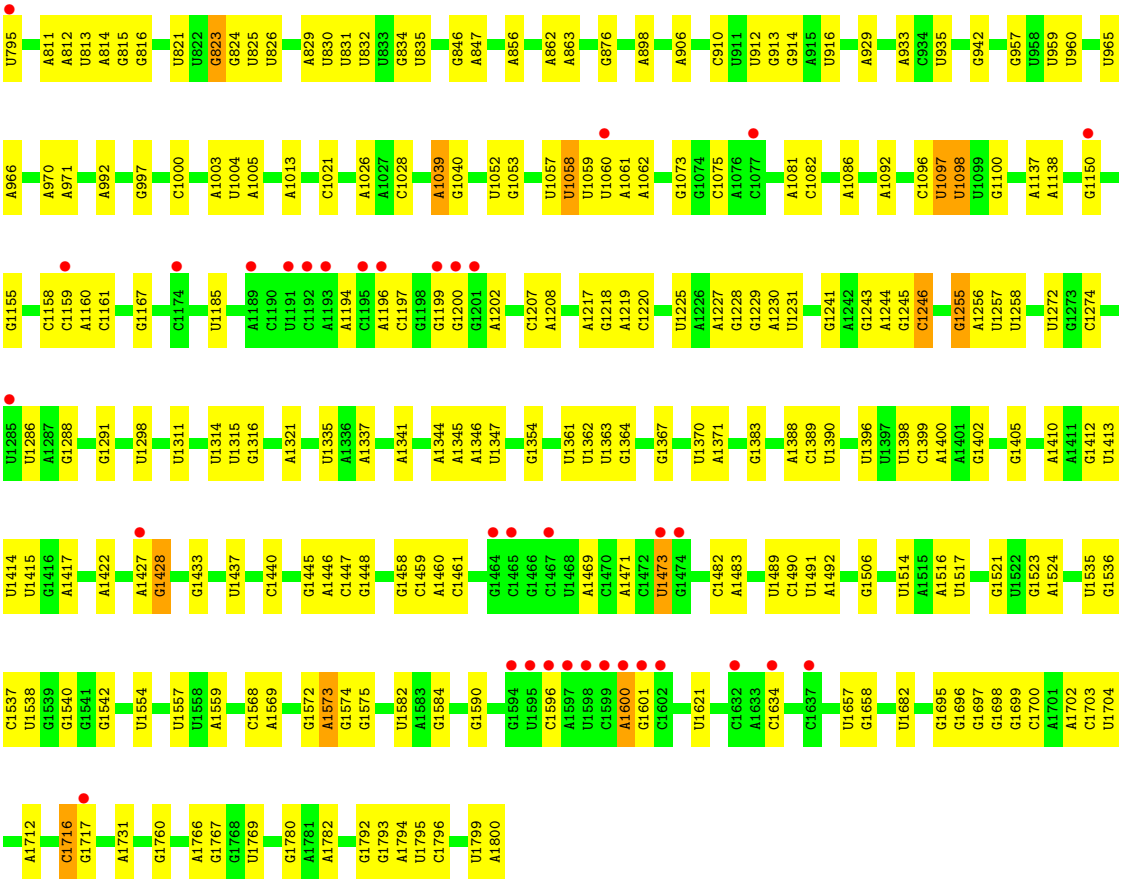




• Molecule 47: 16S ribosomal RNA

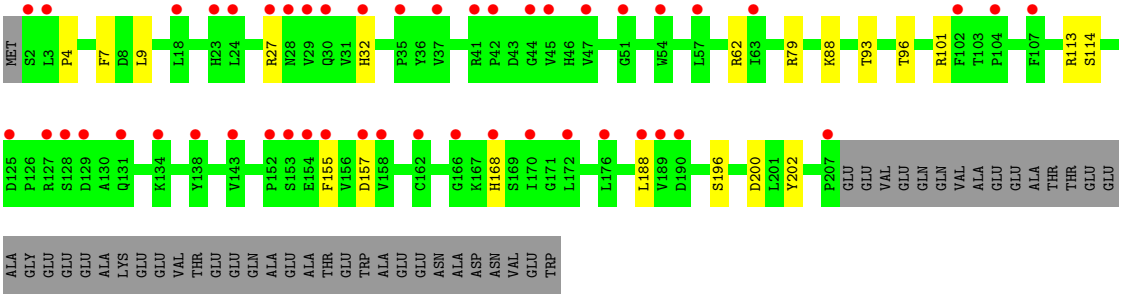
Chain sR:





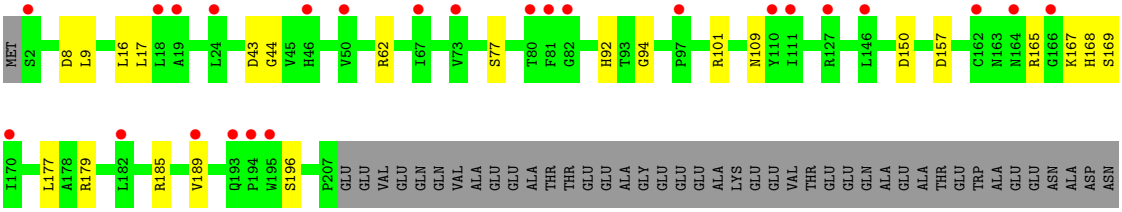
• Molecule 48: 40S ribosomal protein S0-A

Chain B:



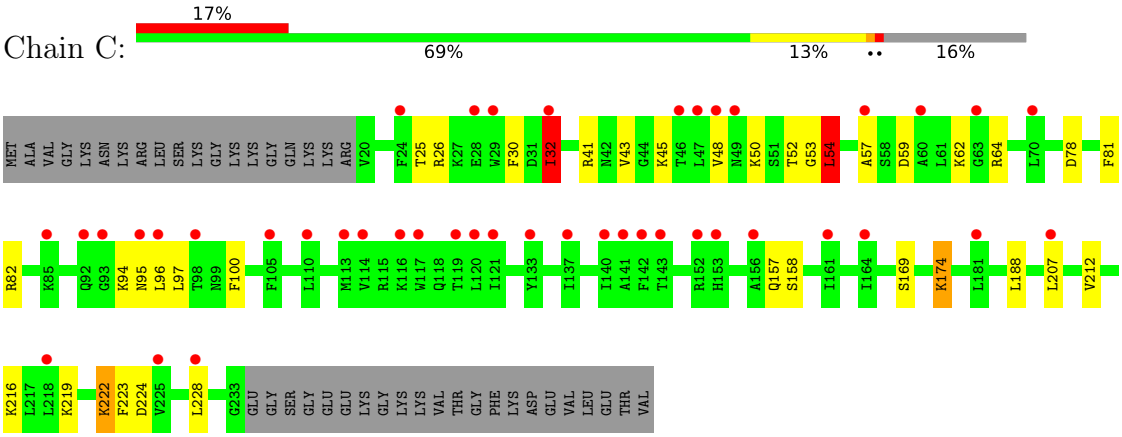
• Molecule 48: 40S ribosomal protein S0-A

Chain s0:



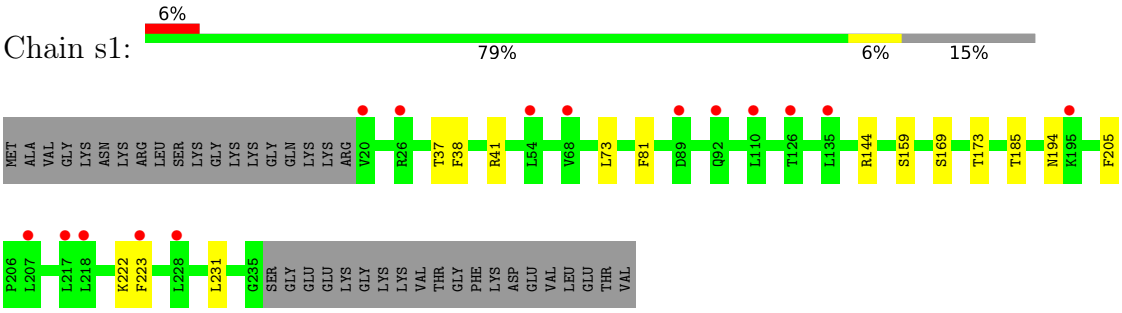
• Molecule 49: 40S ribosomal protein S1-A

Chain C:



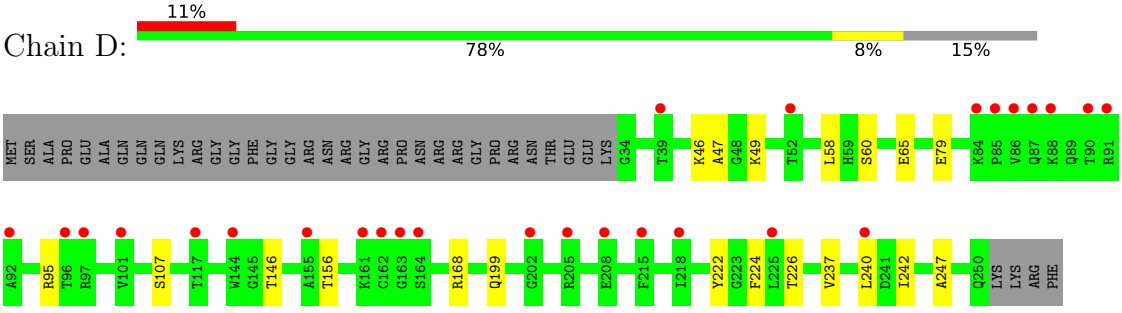
• Molecule 49: 40S ribosomal protein S1-A

Chain s1:



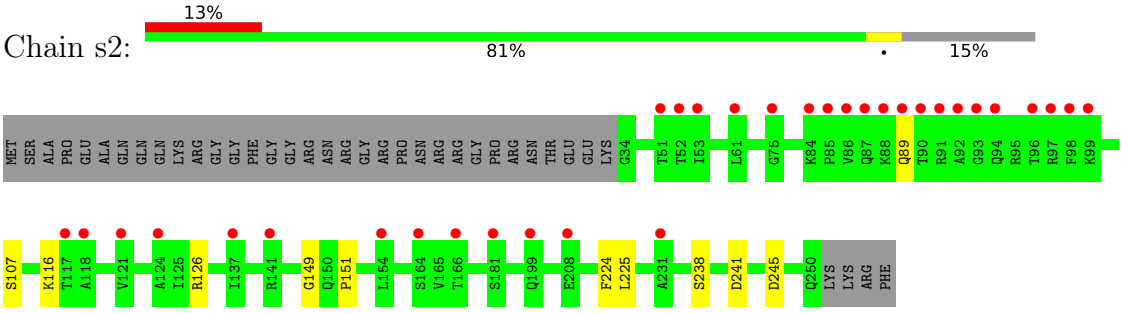
• Molecule 50: 40S ribosomal protein S2

Chain D:



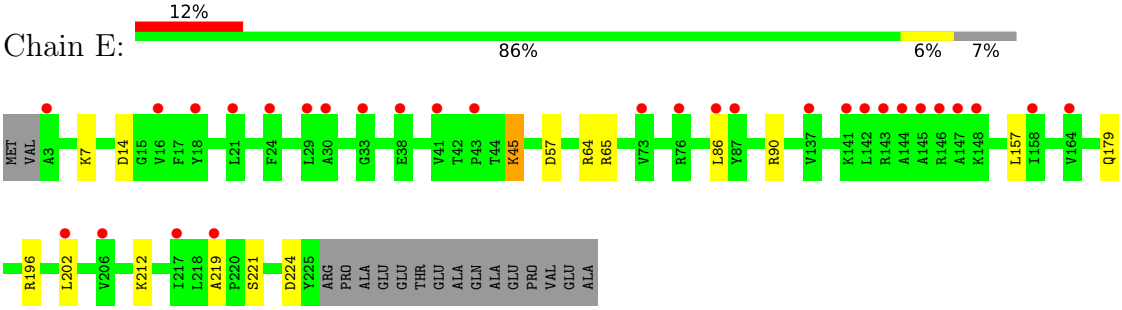
• Molecule 50: 40S ribosomal protein S2

Chain s2:



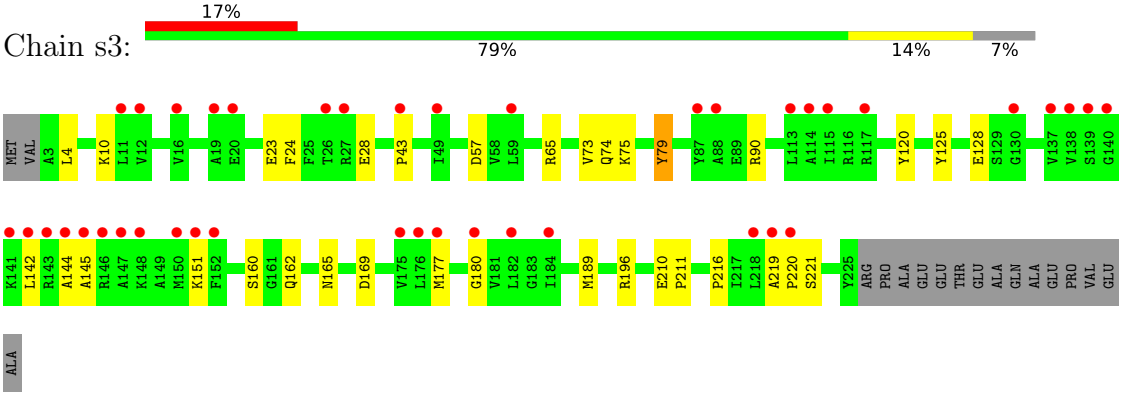
• Molecule 51: Small ribosomal subunit protein uS3

Chain E:



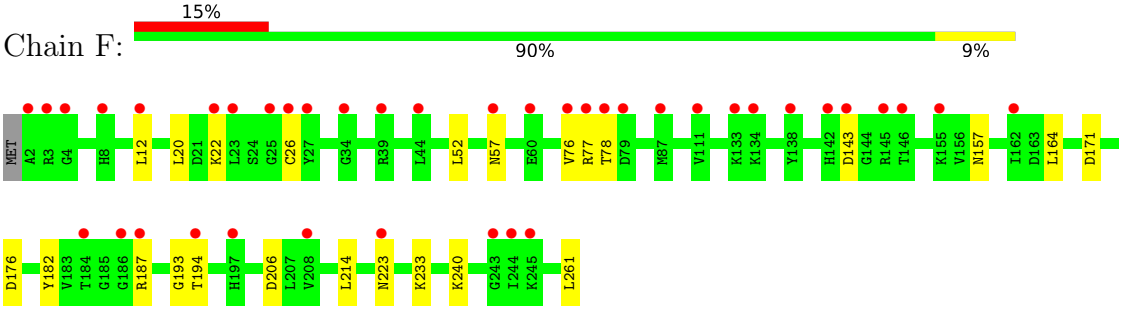
• Molecule 51: Small ribosomal subunit protein uS3

Chain s3:



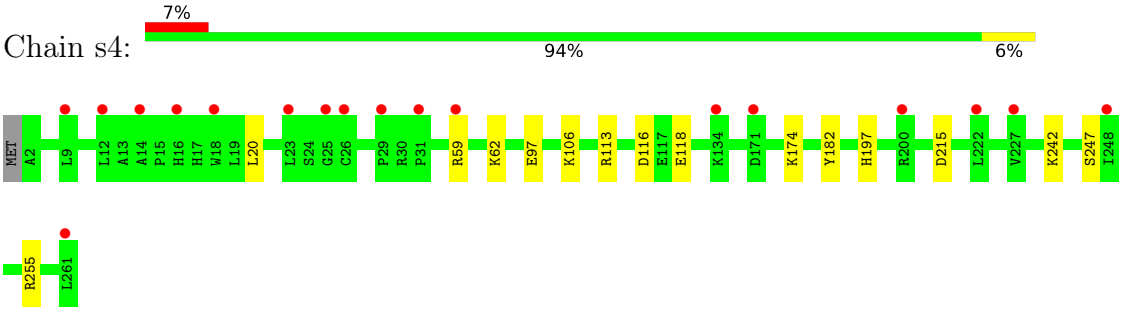
• Molecule 52: 40S ribosomal protein S4-A

Chain F:



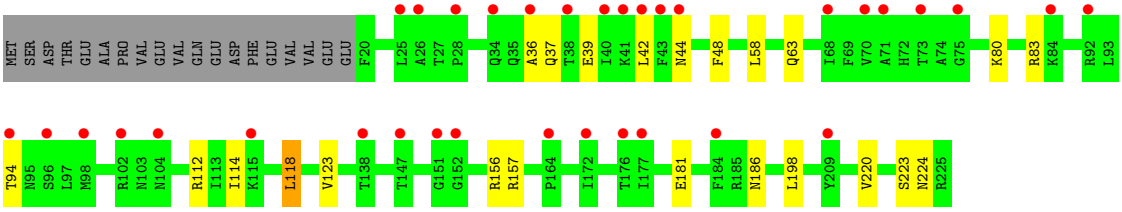
• Molecule 52: 40S ribosomal protein S4-A

Chain s4:



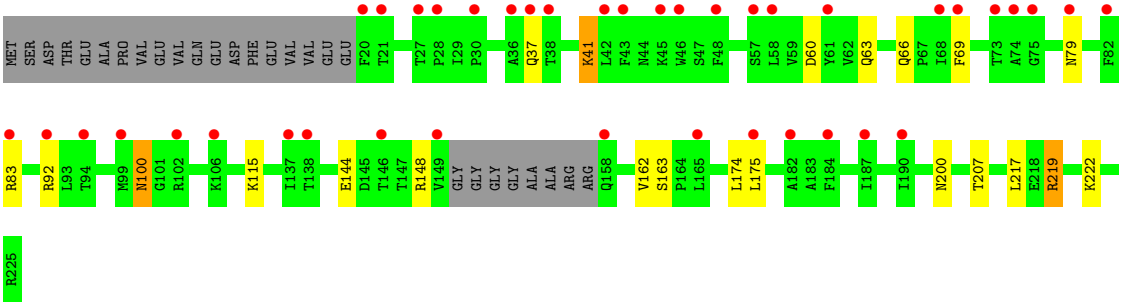
• Molecule 53: 40S ribosomal protein S5

Chain G:



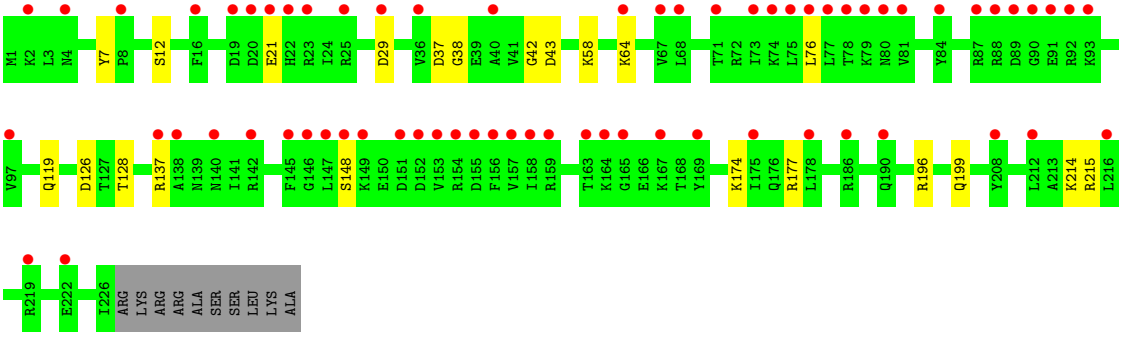
• Molecule 53: 40S ribosomal protein S5

Chain s5:



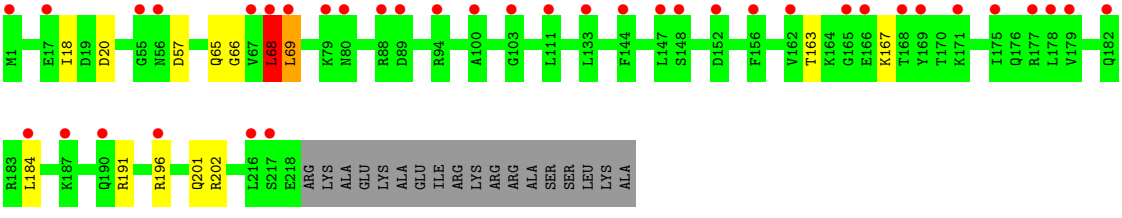
• Molecule 54: 40S ribosomal protein S6-A

Chain H:



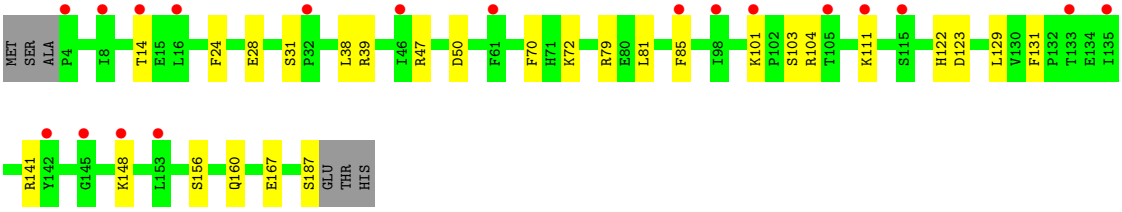
• Molecule 54: 40S ribosomal protein S6-A

Chain s6:



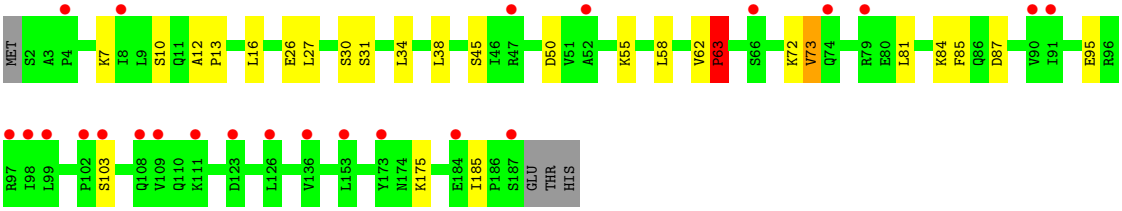
• Molecule 55: 40S ribosomal protein S7-A

Chain I:



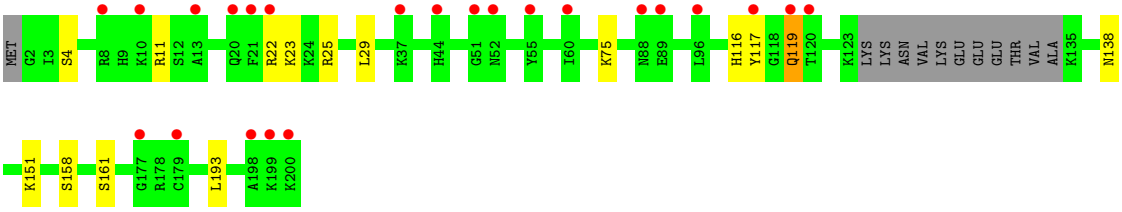
• Molecule 55: 40S ribosomal protein S7-A

Chain s7:



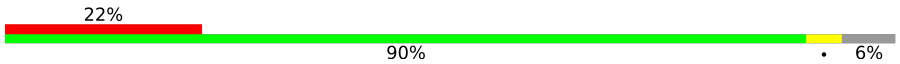
• Molecule 56: 40S ribosomal protein S8-A

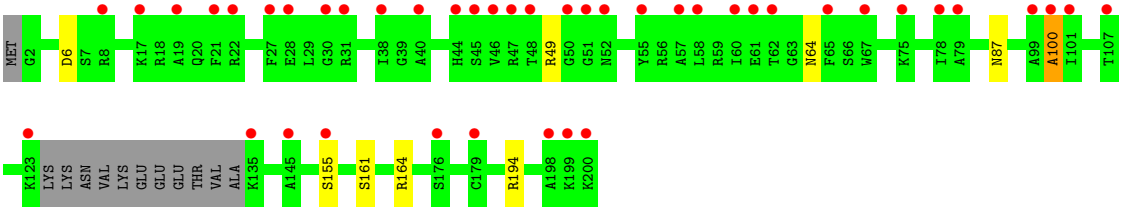
Chain J:



• Molecule 56: 40S ribosomal protein S8-A

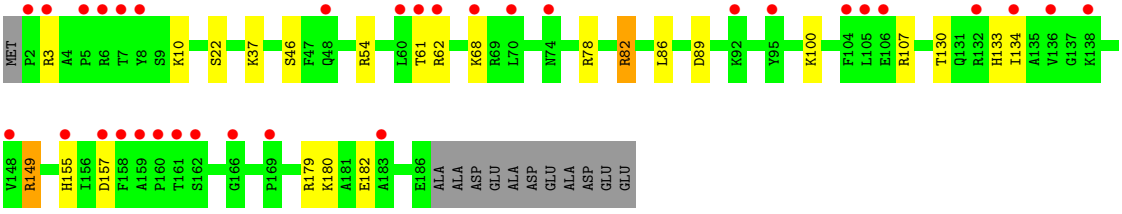
Chain s8:





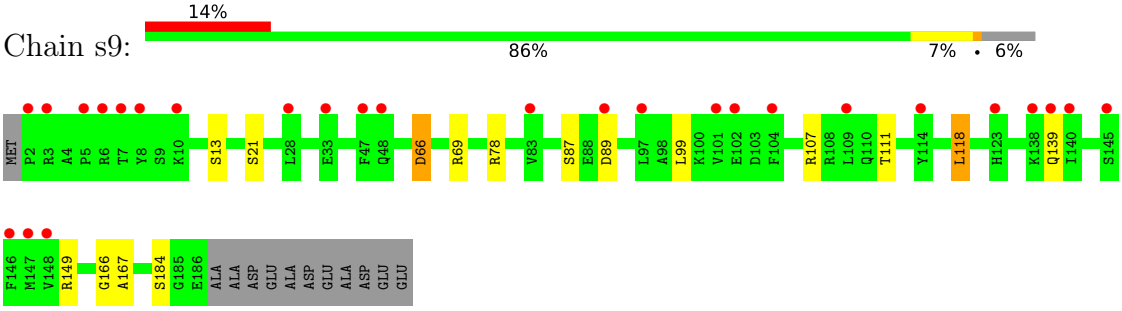
• Molecule 57: 40S ribosomal protein S9-A

Chain K:



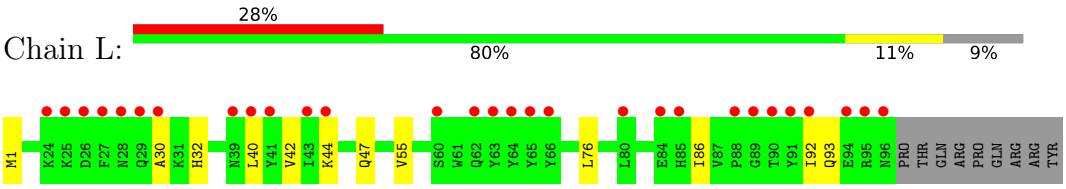
• Molecule 57: 40S ribosomal protein S9-A

Chain s9:



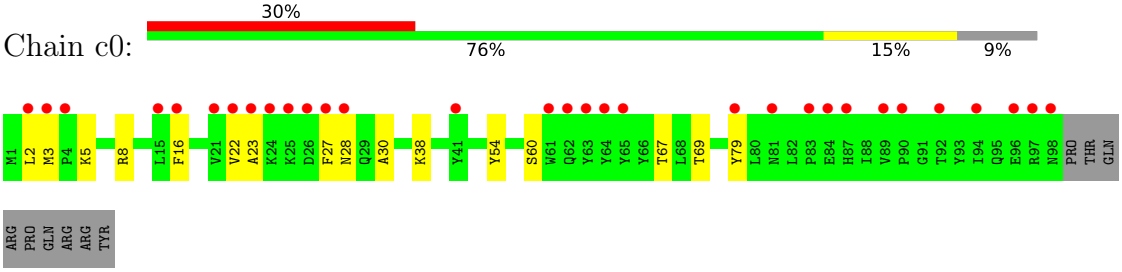
• Molecule 58: 40S ribosomal protein S10-A

Chain L:



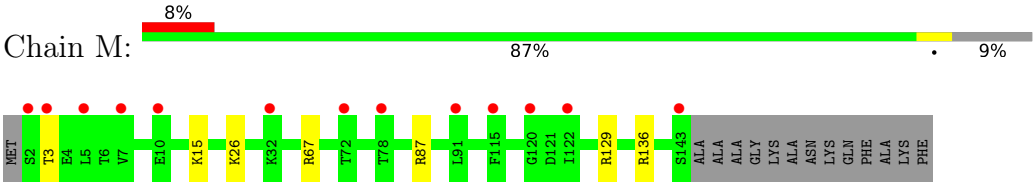
• Molecule 58: 40S ribosomal protein S10-A

Chain c0:



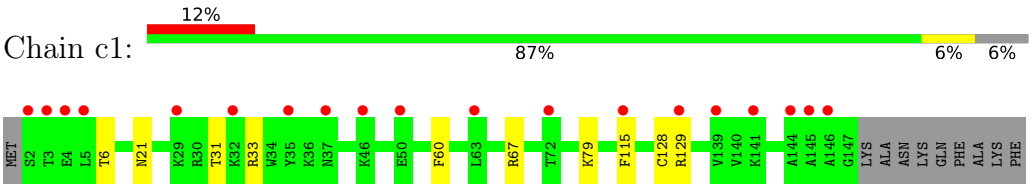
• Molecule 59: 40S ribosomal protein S11-A

Chain M:



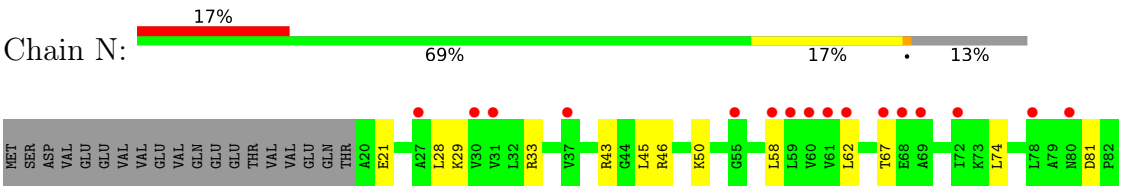
• Molecule 59: 40S ribosomal protein S11-A

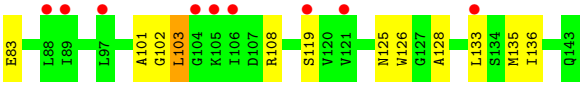
Chain c1:



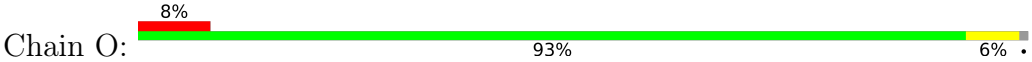
• Molecule 60: 40S ribosomal protein S12

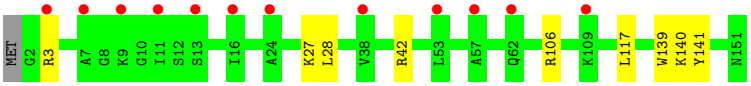
Chain N:



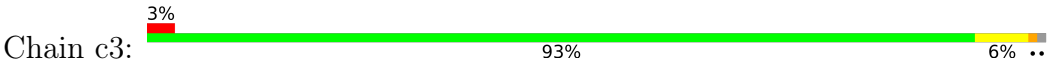


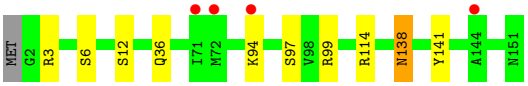
• Molecule 61: 40S ribosomal protein S13



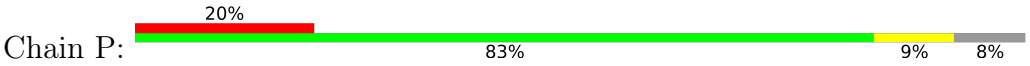


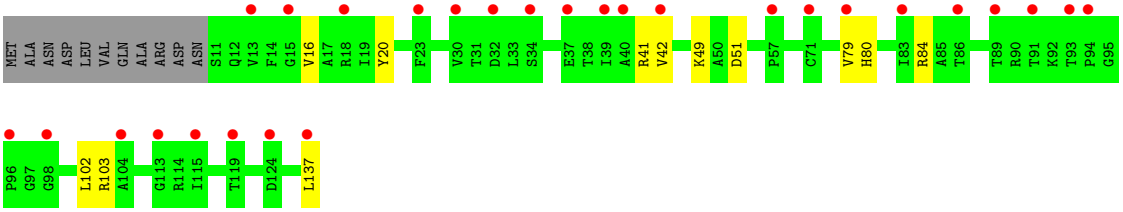
• Molecule 61: 40S ribosomal protein S13



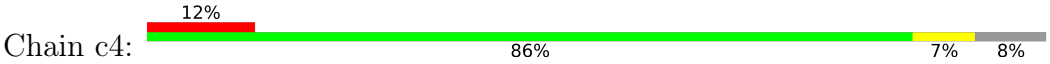


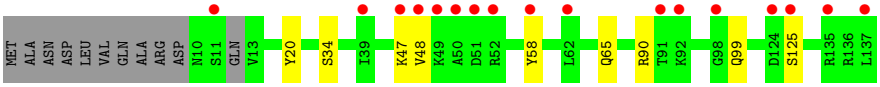
• Molecule 62: 40S ribosomal protein S14-B



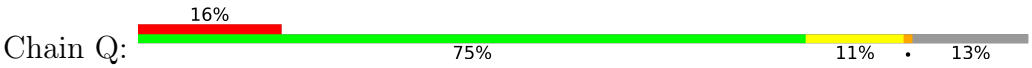


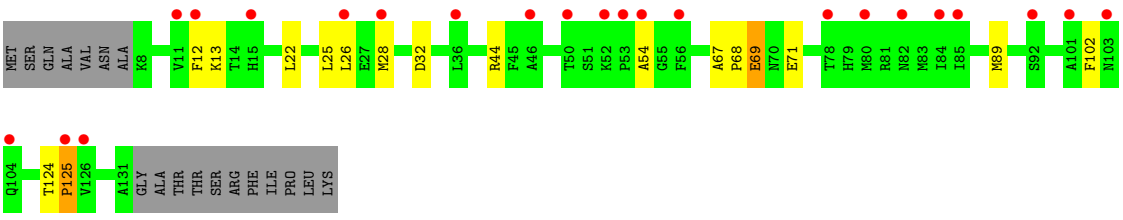
• Molecule 62: 40S ribosomal protein S14-B





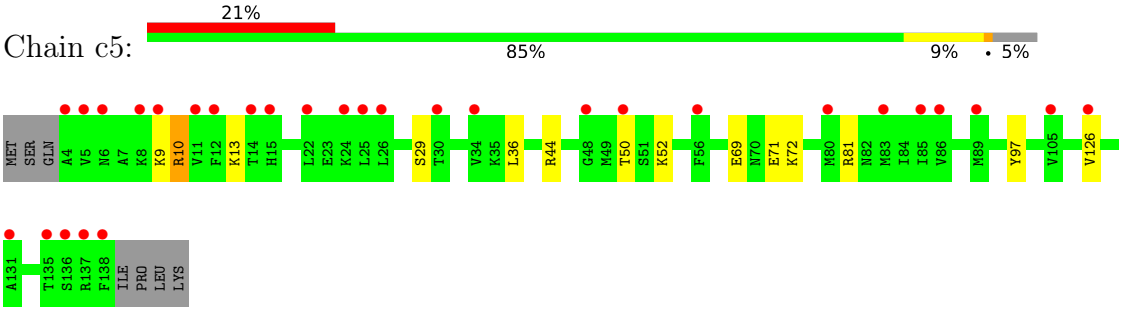
• Molecule 63: 40S ribosomal protein S15





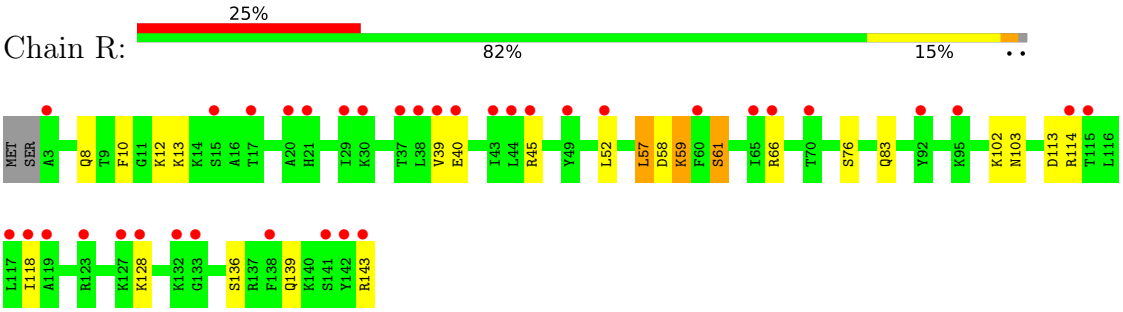
• Molecule 63: 40S ribosomal protein S15

Chain c5:



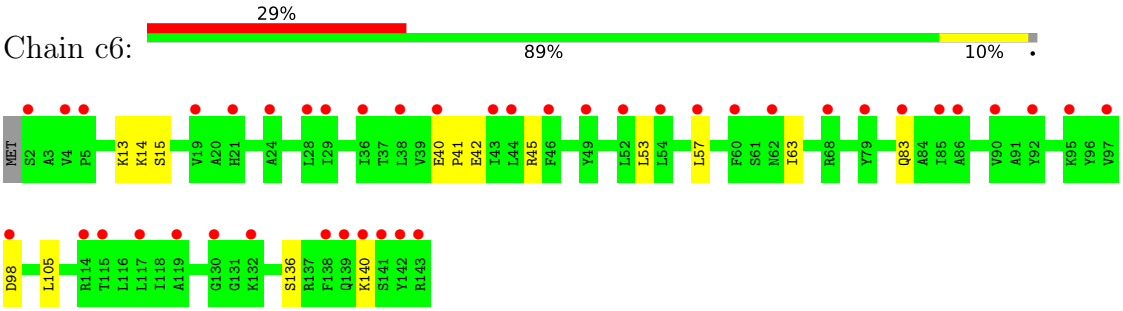
• Molecule 64: 40S ribosomal protein S16-A

Chain R:



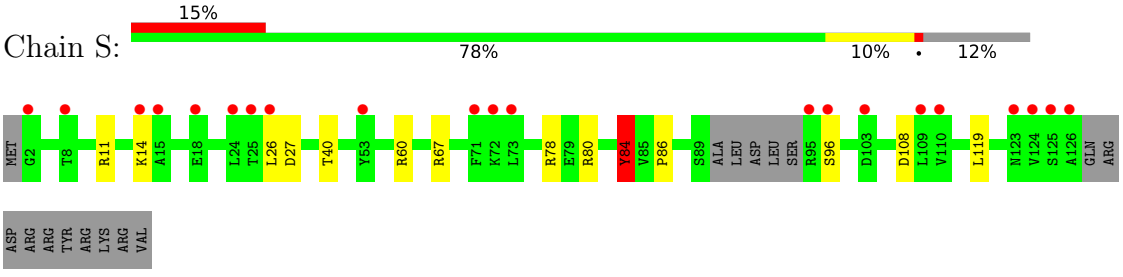
• Molecule 64: 40S ribosomal protein S16-A

Chain c6:



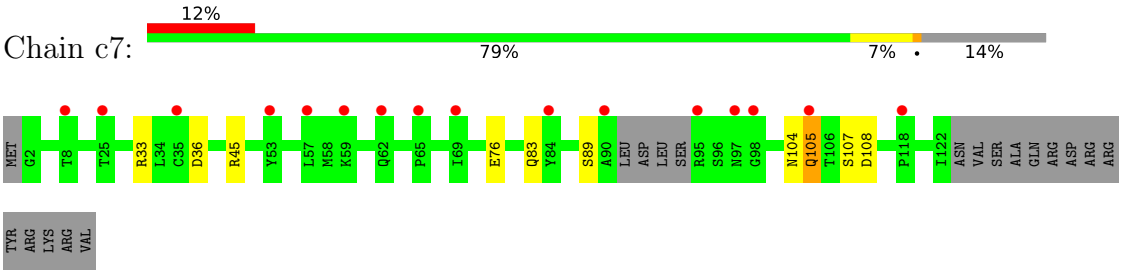
• Molecule 65: 40S ribosomal protein S17-A

Chain S:



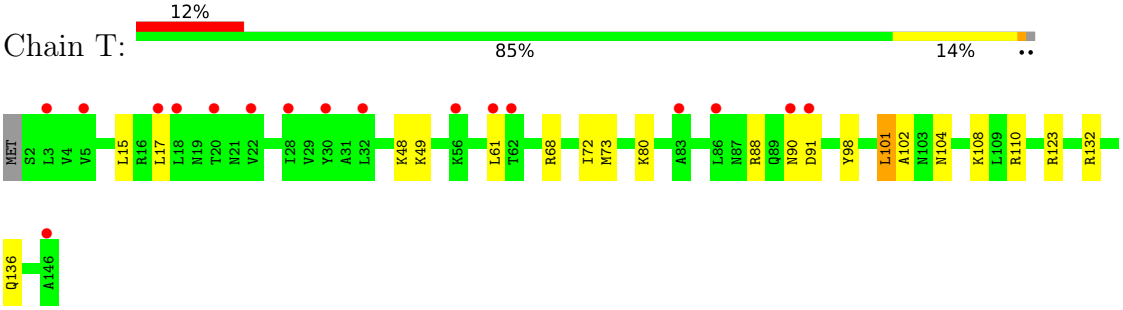
• Molecule 65: 40S ribosomal protein S17-A

Chain c7:



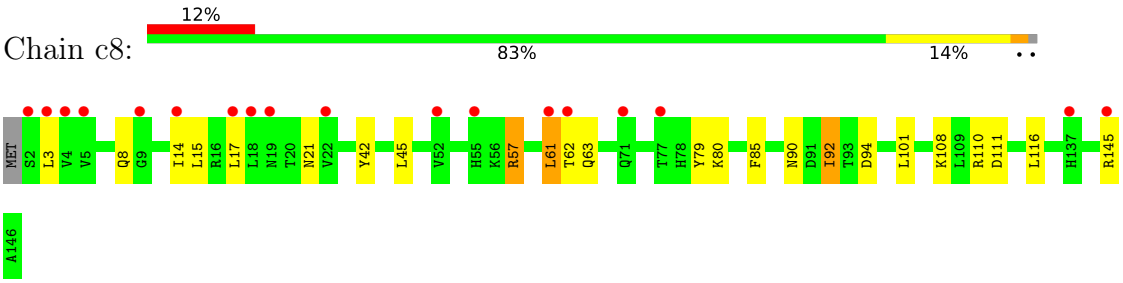
• Molecule 66: 40S ribosomal protein S18-A

Chain T:



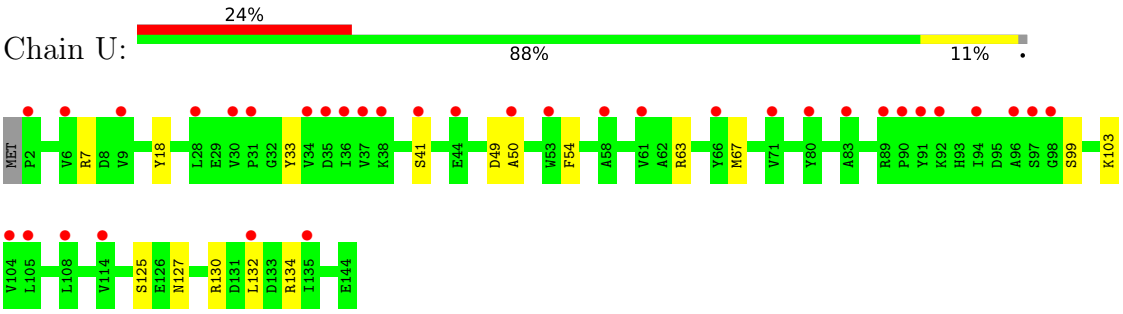
• Molecule 66: 40S ribosomal protein S18-A

Chain c8:



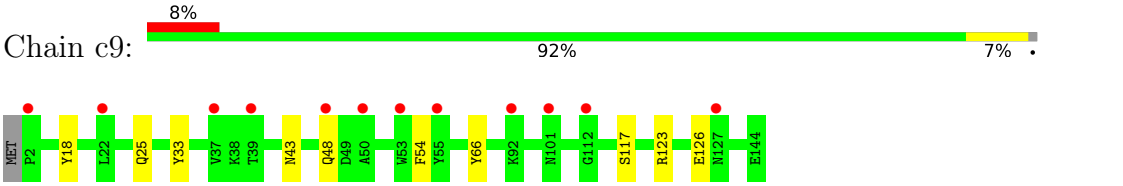
• Molecule 67: 40S ribosomal protein S19-A

Chain U:



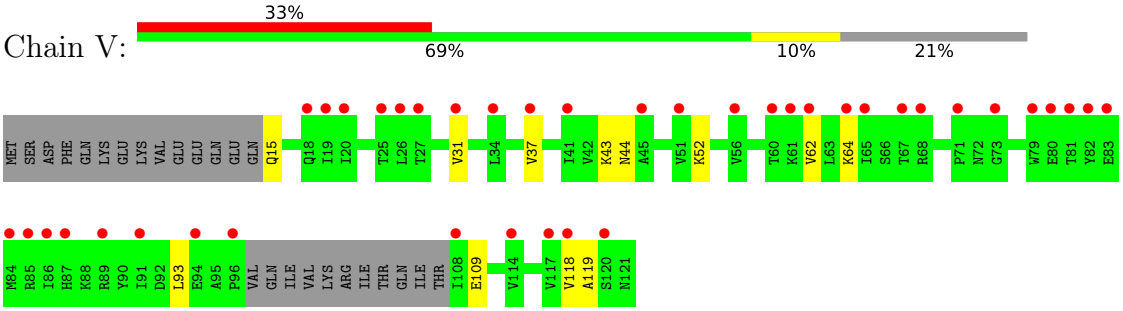
• Molecule 67: 40S ribosomal protein S19-A

Chain c9:



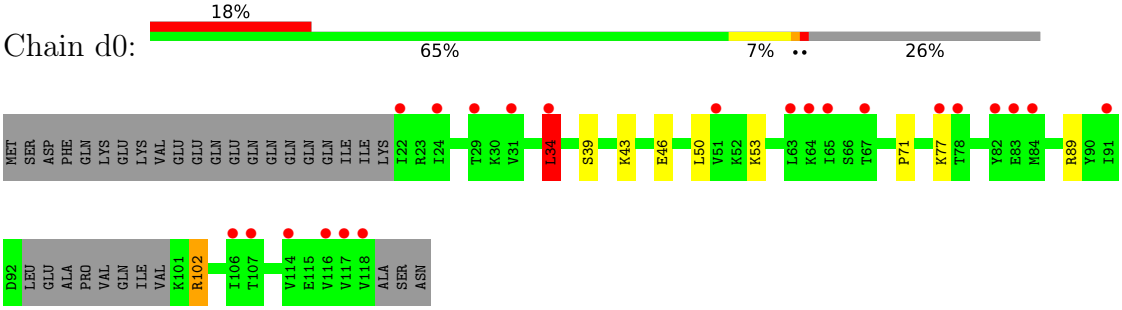
• Molecule 68: Small ribosomal subunit protein uS10

Chain V:



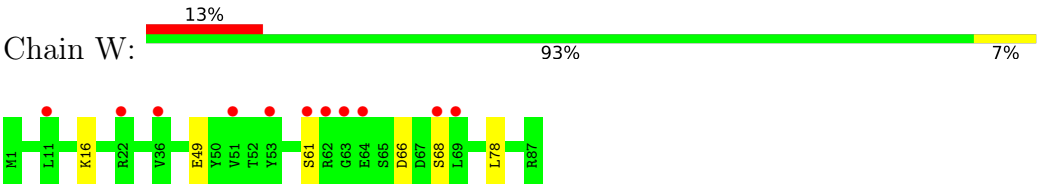
• Molecule 68: Small ribosomal subunit protein uS10

Chain d0:



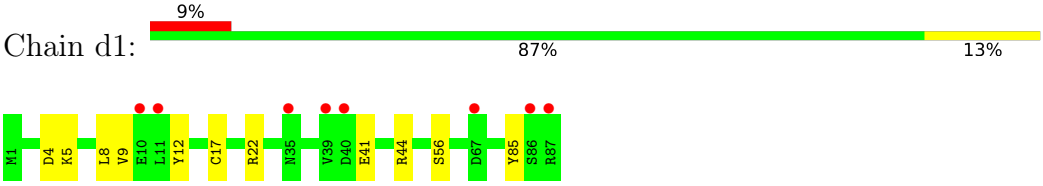
• Molecule 69: 40S ribosomal protein S21-A

Chain W:



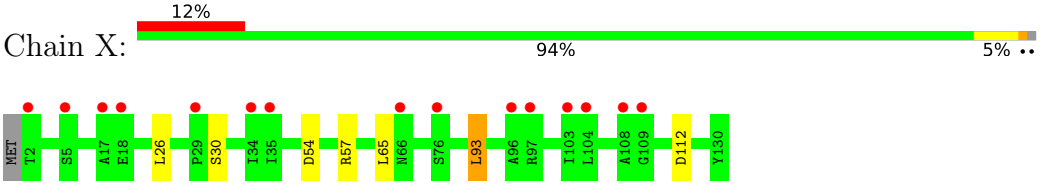
• Molecule 69: 40S ribosomal protein S21-A

Chain d1:



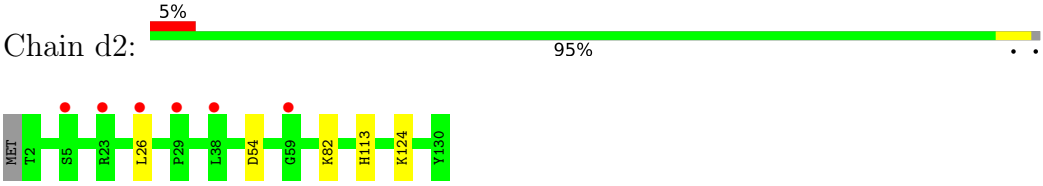
• Molecule 70: 40S ribosomal protein S22-A

Chain X:



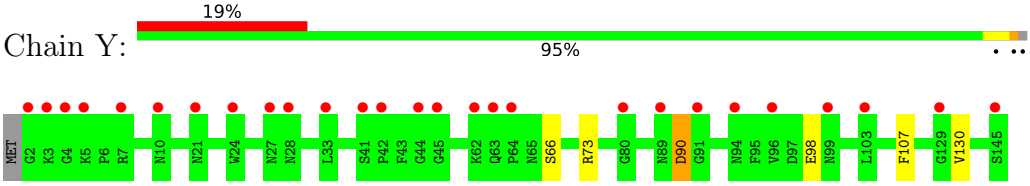
• Molecule 70: 40S ribosomal protein S22-A

Chain d2:



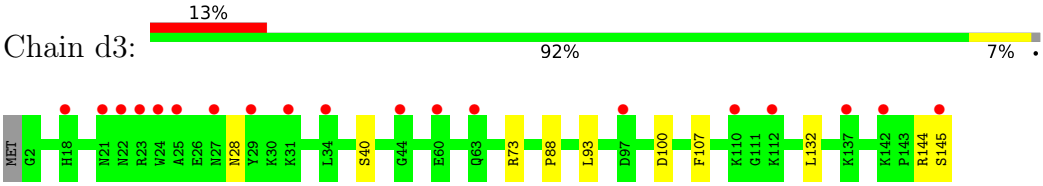
• Molecule 71: 40S ribosomal protein S23-A

Chain Y:



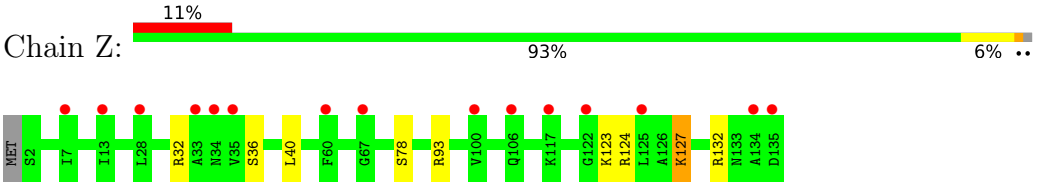
• Molecule 71: 40S ribosomal protein S23-A

Chain d3:



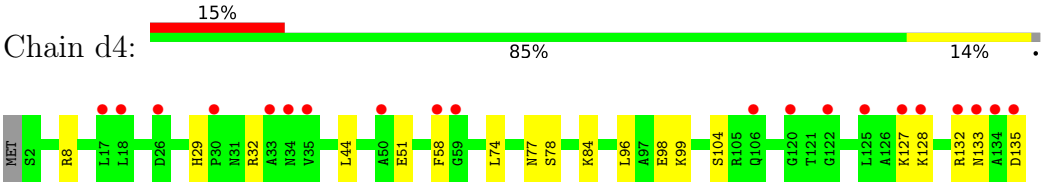
• Molecule 72: 40S ribosomal protein S24-A

Chain Z:



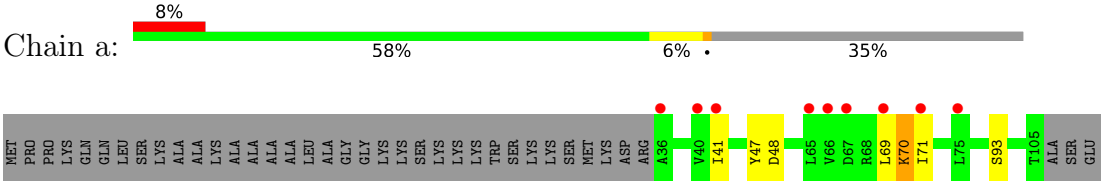
• Molecule 72: 40S ribosomal protein S24-A

Chain d4:



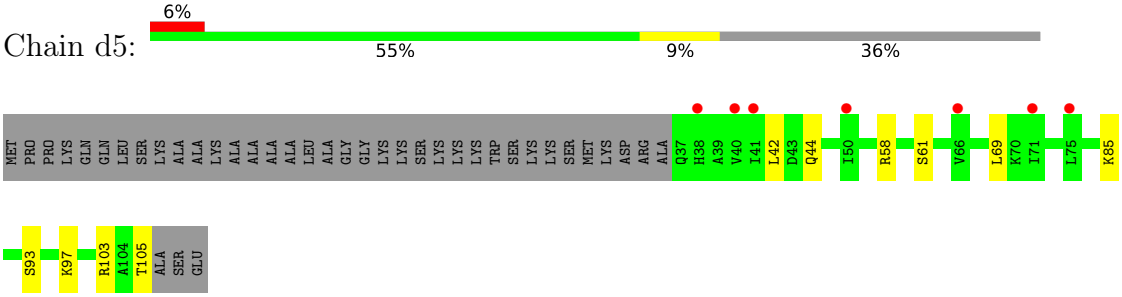
• Molecule 73: 40S ribosomal protein S25-A

Chain a:



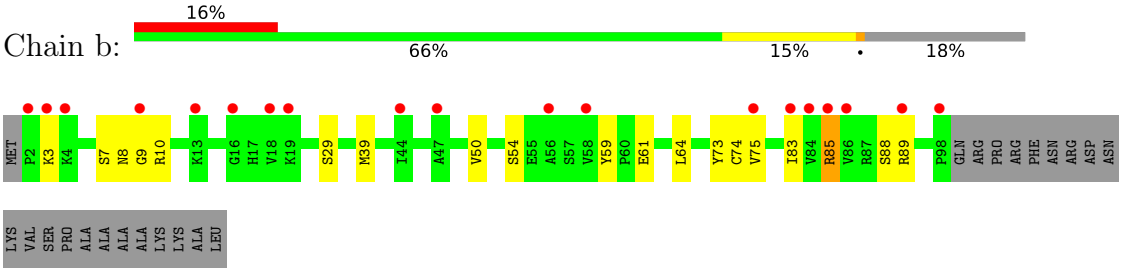
• Molecule 73: 40S ribosomal protein S25-A

Chain d5:



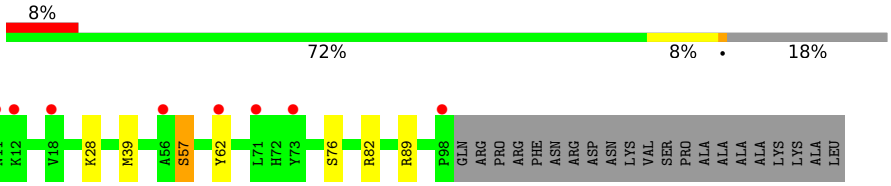
• Molecule 74: Small ribosomal subunit protein eS26B

Chain b:



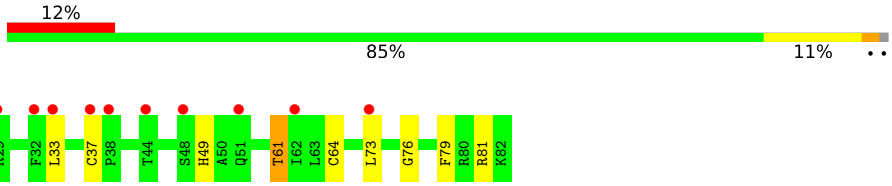
• Molecule 74: Small ribosomal subunit protein eS26B

Chain d6:



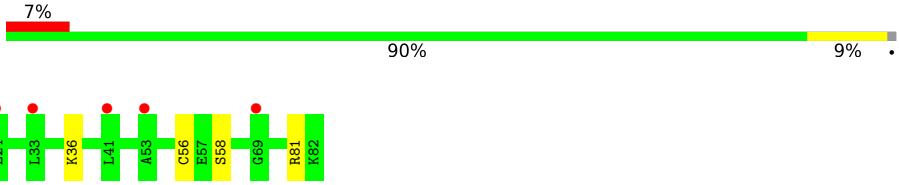
• Molecule 75: 40S ribosomal protein S27-A

Chain c:



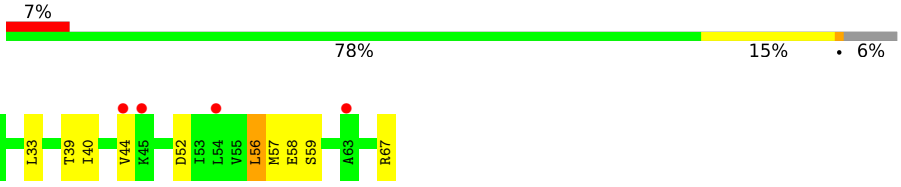
• Molecule 75: 40S ribosomal protein S27-A

Chain d7:



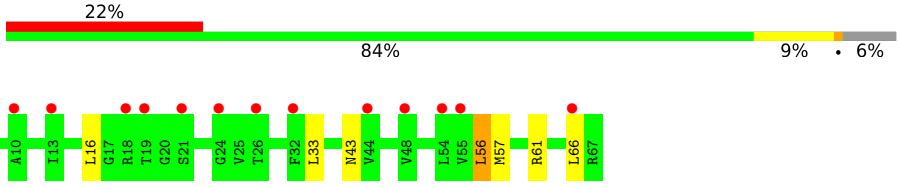
• Molecule 76: 40S ribosomal protein S28-A

Chain d:



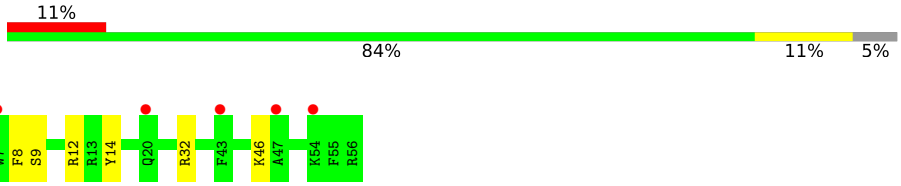
• Molecule 76: 40S ribosomal protein S28-A

Chain d8:



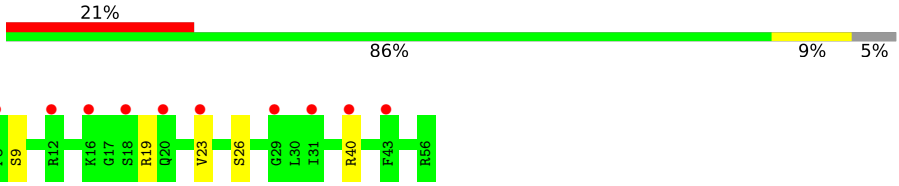
• Molecule 77: Small ribosomal subunit protein uS14A

Chain e:



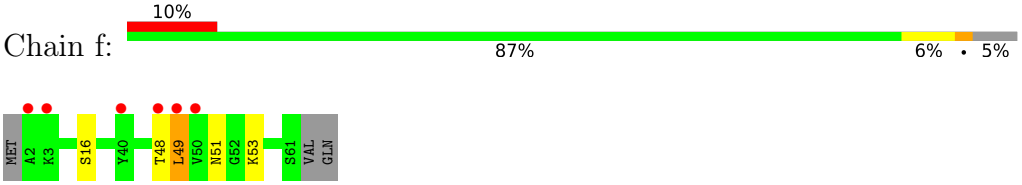
• Molecule 77: Small ribosomal subunit protein uS14A

Chain d9:



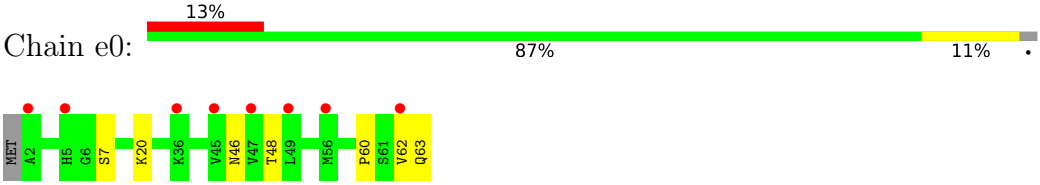
• Molecule 78: 40S ribosomal protein S30-A

Chain f:



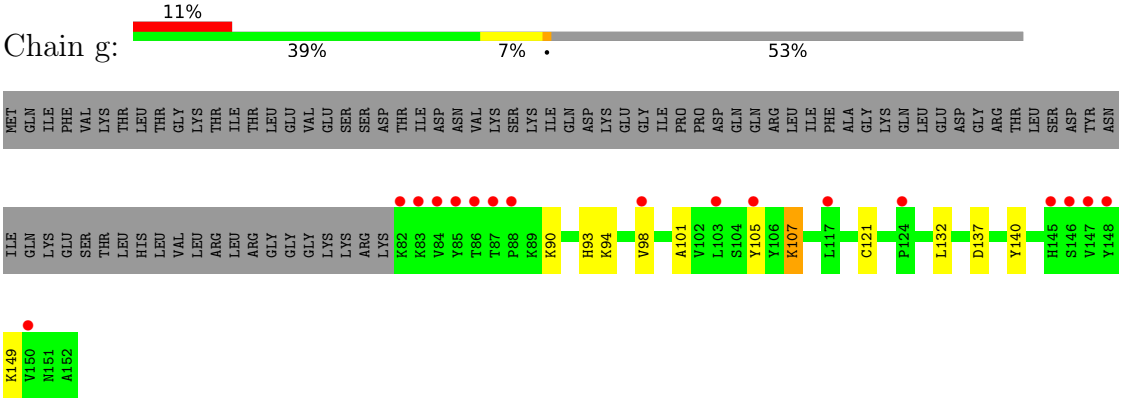
• Molecule 78: 40S ribosomal protein S30-A

Chain e0:



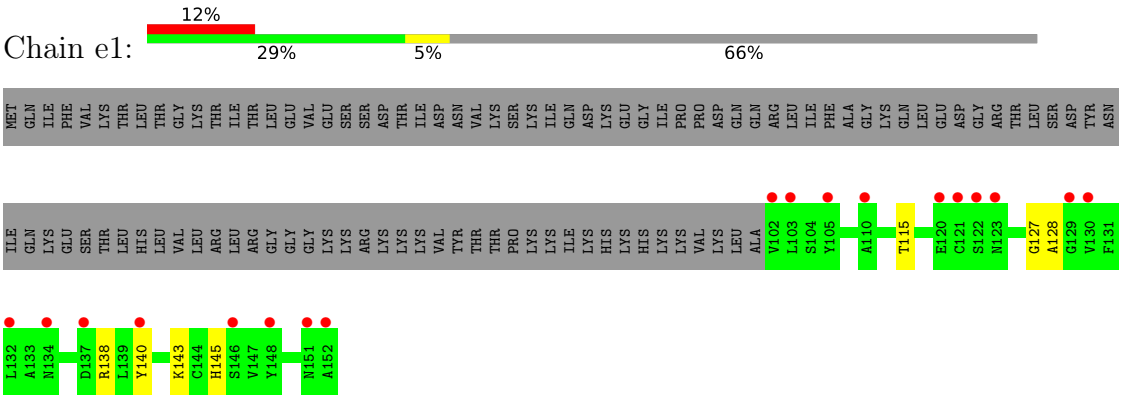
• Molecule 79: Ubiquitin

Chain g:



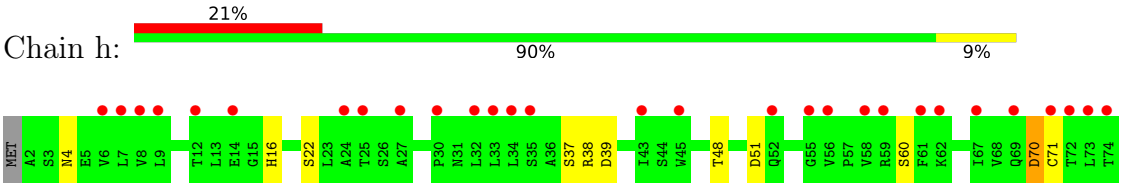
• Molecule 79: Ubiquitin

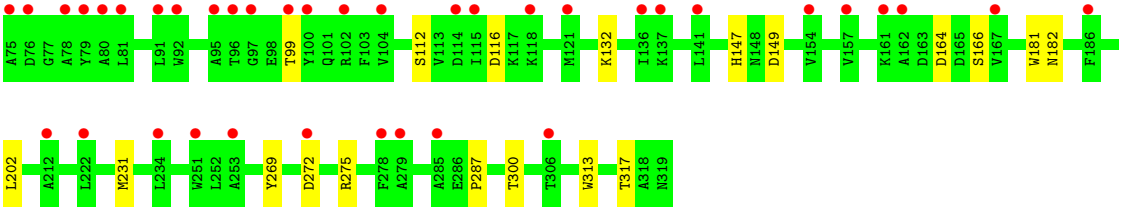
Chain e1:



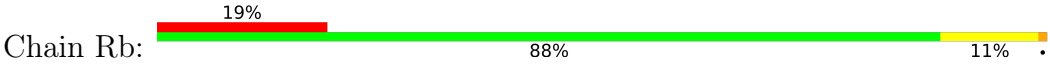
• Molecule 80: Guanine nucleotide-binding protein subunit beta-like protein

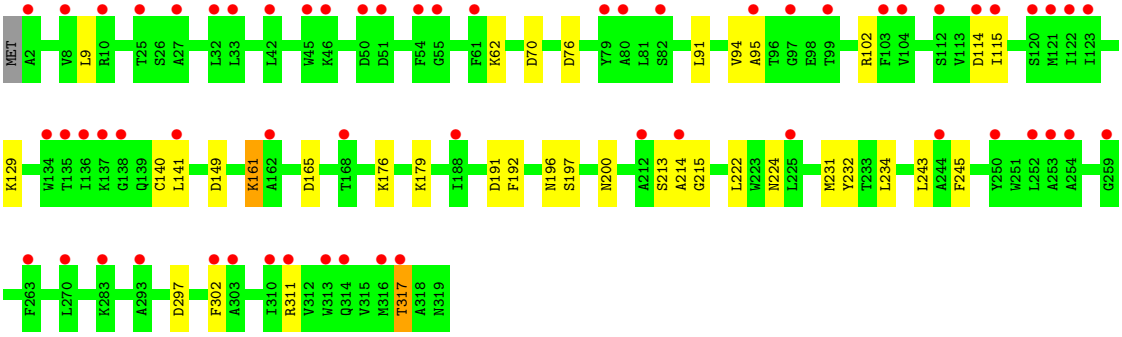
Chain h:





• Molecule 80: Guanine nucleotide-binding protein subunit beta-like protein





4 Data and refinement statistics (i)

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α, β, γ	303.81Å 287.52Å 435.86Å 90.00° 98.94° 90.00°	Depositor
Resolution (Å)	143.00 – 2.90 143.00 – 2.90	Depositor EDS
% Data completeness (in resolution range)	99.3 (143.00-2.90) 90.3 (143.00-2.90)	Depositor EDS
R_{merge}	0.06	Depositor
R_{sym}	(Not available)	Depositor
$< I/\sigma(I) >$ [1]	0.65 (at 2.91Å)	Xtriage
Refinement program	PHENIX 1.20.14487	Depositor
R, R_{free}	0.214 , (Not available) 0.216 , 0.238	Depositor DCC
R_{free} test set	1591844 reflections (1.55%)	wwPDB-VP
Wilson B-factor (Å^2)	64.6	Xtriage
Anisotropy	0.183	Xtriage
Bulk solvent k_{sol}(e/Å^3), B_{sol}(Å^2)	0.33 , 71.8	EDS
L-test for twinning[2]	$< \|L\| > = 0.48$, $< L^2 > = 0.31$	Xtriage
Estimated twinning fraction	No twinning to report.	Xtriage
F_o,F_c correlation	0.92	EDS
Total number of atoms	405377	wwPDB-VP
Average B, all atoms (Å^2)	87.0	wwPDB-VP

Xtriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.45% of the height of the origin peak. No significant pseudotranslation is detected.*

[1] Intensities estimated from amplitudes.

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

5 Model quality

5.1 Standard geometry

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

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	1	0.28	0/75394	0.92	83/117545 (0.1%)
1	AR	0.29	0/74945	0.93	77/116844 (0.1%)
2	3	0.25	0/2883	0.86	0/4491
2	AS	0.26	0/2883	0.90	1/4491 (0.0%)
3	4	0.27	0/3746	0.87	2/5832 (0.0%)
3	AT	0.26	0/3746	0.87	2/5832 (0.0%)
4	CD	0.29	0/1948	0.67	1/2617 (0.0%)
4	j	0.29	0/1948	0.67	0/2617
5	CE	0.29	0/3146	0.66	3/4228 (0.1%)
5	k	0.31	0/3146	0.66	2/4228 (0.0%)
6	CF	0.31	0/2800	0.63	1/3790 (0.0%)
6	l	0.30	0/2800	0.65	2/3790 (0.1%)
7	CG	0.29	0/2398	0.64	1/3235 (0.0%)
7	m	0.33	0/2425	0.71	2/3271 (0.1%)
8	CH	0.29	0/1260	0.62	0/1694
8	n	0.31	0/1260	0.57	0/1694
9	CI	0.28	0/1821	0.58	0/2451
9	o	0.32	0/1821	0.60	0/2451
10	CJ	0.32	0/1789	0.67	0/2418
10	p	0.32	0/1836	0.59	0/2481
11	CK	0.29	0/1539	0.58	0/2073
11	q	0.36	1/1539 (0.1%)	0.66	0/2073
12	CL	0.31	0/1741	0.66	1/2335 (0.0%)
12	r	0.31	0/1741	0.68	2/2335 (0.1%)
13	CM	0.32	0/1374	0.68	1/1842 (0.1%)
13	s	0.36	0/1374	0.80	2/1842 (0.1%)
14	CN	0.34	0/1568	0.74	2/2106 (0.1%)
14	t	0.30	0/1568	0.71	2/2106 (0.1%)
15	CO	0.31	0/1068	0.61	0/1438
15	u	0.31	0/1068	0.64	0/1438
16	CP	0.27	0/1757	0.63	0/2354
16	v	0.29	0/1757	0.66	0/2354

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
17	CQ	0.28	0/1585	0.55	0/2128
17	w	0.29	0/1585	0.58	0/2128
18	CR	0.29	0/1250	0.60	0/1683
18	x	0.29	0/1443	0.62	0/1944
19	CS	0.29	0/1465	0.66	0/1965
19	y	0.30	0/1465	0.68	1/1965 (0.1%)
20	CT	0.27	0/1538	0.65	0/2050
20	z	0.31	0/1449	0.67	0/1932
21	0	0.31	0/1481	0.62	0/1990
21	CU	0.29	0/1481	0.58	0/1990
22	2	0.29	0/1300	0.62	0/1743
22	CV	0.31	0/1300	0.59	0/1743
23	5	0.47	0/812	0.72	0/1099
23	CW	0.39	0/812	0.76	1/1099 (0.1%)
24	6	0.32	0/1018	0.64	0/1369
24	CX	0.31	0/1018	0.61	0/1369
25	7	0.30	0/545	0.64	0/724
25	CY	0.30	0/780	0.61	0/1049
26	8	0.29	0/979	0.66	0/1321
26	CZ	0.32	0/952	0.68	1/1285 (0.1%)
27	9	0.31	0/1004	0.68	1/1341 (0.1%)
27	DA	0.28	0/987	0.61	0/1318
28	AA	0.39	0/1118	0.70	1/1497 (0.1%)
28	DB	0.39	0/1118	0.70	2/1497 (0.1%)
29	AB	0.35	0/1204	0.79	6/1612 (0.4%)
29	DC	0.36	0/1204	0.80	4/1612 (0.2%)
30	AC	0.28	0/473	0.62	0/629
30	DD	0.29	0/473	0.67	0/629
31	AD	0.30	0/751	0.56	0/1008
31	DE	0.28	0/751	0.57	0/1008
32	AE	0.32	0/890	0.59	0/1196
32	DF	0.29	0/890	0.64	0/1196
33	AF	0.26	0/1041	0.59	0/1394
33	DG	0.28	0/1041	0.61	0/1394
34	AG	0.30	0/862	0.62	0/1161
34	DH	0.30	0/868	0.61	0/1168
35	AH	0.33	0/881	0.71	2/1178 (0.2%)
35	DI	0.30	0/890	0.68	0/1189
36	AI	0.29	0/978	0.58	0/1301
36	DJ	0.33	0/978	0.63	0/1301
37	AJ	0.31	0/745	0.65	0/991
37	DK	0.30	0/778	0.72	0/1034
38	AK	0.28	0/696	0.69	0/923

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
38	DL	0.28	0/691	0.67	0/916
39	AL	0.31	0/618	0.70	0/826
39	DM	0.34	0/618	0.75	0/826
40	AM	0.27	0/443	0.71	0/588
40	DN	0.28	0/443	0.72	0/588
41	AN	0.33	0/423	0.66	0/562
41	DO	0.32	0/423	0.66	0/562
42	AO	0.28	0/234	0.80	0/300
42	DP	0.26	0/234	0.77	0/300
43	AP	0.34	0/860	0.81	4/1136 (0.4%)
43	DQ	0.29	0/860	0.63	0/1136
44	AQ	0.28	0/701	0.73	0/934
44	DR	0.27	0/701	0.71	0/934
45	i	0.35	0/1024	0.69	0/1374
45	sM	0.31	0/480	0.77	0/642
46	p0	0.41	0/1007	0.76	1/1355 (0.1%)
47	A	0.30	1/41494 (0.0%)	0.96	124/64649 (0.2%)
47	sR	0.29	0/42490	0.95	96/66207 (0.1%)
48	B	0.41	0/1602	0.84	3/2196 (0.1%)
48	s0	0.36	0/1623	0.78	2/2222 (0.1%)
49	C	0.44	0/1735	0.96	5/2335 (0.2%)
49	s1	0.31	0/1748	0.69	3/2352 (0.1%)
50	D	0.39	0/1665	0.74	1/2263 (0.0%)
50	s2	0.30	0/1665	0.69	2/2263 (0.1%)
51	E	0.38	0/1759	0.77	1/2368 (0.0%)
51	s3	0.44	2/1759 (0.1%)	0.79	1/2368 (0.0%)
52	F	0.37	0/2109	0.77	7/2839 (0.2%)
52	s4	0.30	0/2109	0.65	0/2839
53	G	0.44	0/1629	0.91	4/2202 (0.2%)
53	s5	0.47	1/1580 (0.1%)	0.86	4/2137 (0.2%)
54	H	0.32	0/1823	0.74	3/2439 (0.1%)
54	s6	0.32	0/1779	0.72	5/2379 (0.2%)
55	I	0.50	1/1506 (0.1%)	0.89	3/2028 (0.1%)
55	s7	0.41	0/1516	0.94	8/2043 (0.4%)
56	J	0.30	0/1514	0.73	2/2021 (0.1%)
56	s8	0.34	0/1514	0.71	1/2021 (0.0%)
57	K	0.36	0/1519	0.80	0/2035
57	s9	0.32	0/1519	0.77	3/2035 (0.1%)
58	L	0.33	0/789	0.70	0/1067
58	c0	0.33	0/776	0.66	1/1047 (0.1%)
59	M	0.31	0/1175	0.67	1/1584 (0.1%)
59	c1	0.30	0/1194	0.64	0/1610
60	N	0.37	0/898	0.93	5/1220 (0.4%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
61	O	0.33	0/1215	0.68	0/1638
61	c3	0.31	0/1215	0.61	0/1638
62	P	0.42	1/901 (0.1%)	0.86	0/1217
62	c4	0.36	0/950	0.77	0/1275
63	Q	0.74	5/998 (0.5%)	0.94	5/1341 (0.4%)
63	c5	0.37	0/1060	0.85	5/1426 (0.4%)
64	R	0.34	0/1125	0.75	1/1510 (0.1%)
64	c6	0.35	0/1131	0.76	1/1518 (0.1%)
65	S	0.42	0/935	0.88	1/1254 (0.1%)
65	c7	0.31	0/914	0.74	1/1224 (0.1%)
66	T	0.35	0/1211	0.77	1/1628 (0.1%)
66	c8	0.32	0/1211	0.82	5/1628 (0.3%)
67	U	0.40	0/1130	0.82	1/1517 (0.1%)
67	c9	0.33	0/1130	0.65	0/1517
68	V	0.31	0/774	0.68	0/1044
68	d0	0.30	0/723	0.77	2/974 (0.2%)
69	W	0.38	0/693	0.78	1/935 (0.1%)
69	d1	0.35	0/693	0.73	1/935 (0.1%)
70	X	0.34	0/1038	0.72	2/1395 (0.1%)
70	d2	0.32	0/1038	0.65	0/1395
71	Y	0.30	0/1139	0.69	0/1518
71	d3	0.28	0/1139	0.67	1/1518 (0.1%)
72	Z	0.40	0/1087	0.74	2/1449 (0.1%)
72	d4	0.34	0/1087	0.74	0/1449
73	a	0.43	0/571	0.85	1/768 (0.1%)
73	d5	0.34	0/566	0.79	1/761 (0.1%)
74	b	0.45	1/782 (0.1%)	0.87	1/1047 (0.1%)
74	d6	0.35	0/782	0.84	4/1047 (0.4%)
75	c	0.31	0/620	0.81	1/838 (0.1%)
75	d7	0.32	0/620	0.68	0/838
76	d	0.32	0/499	0.82	2/670 (0.3%)
76	d8	0.26	0/499	0.90	2/670 (0.3%)
77	d9	0.34	0/452	0.76	1/600 (0.2%)
77	e	0.31	0/452	0.70	0/600
78	e0	0.33	0/499	0.75	0/665
78	f	0.34	0/483	0.79	1/643 (0.2%)
79	e1	0.25	0/250	0.74	0/346
79	g	0.36	0/577	0.80	0/770
80	Rb	0.37	0/2495	0.77	2/3395 (0.1%)
80	h	0.35	0/2490	0.77	2/3389 (0.1%)
All	All	0.31	13/426391 (0.0%)	0.85	544/626187 (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
4	CD	0	3
5	CE	0	2
5	k	0	4
6	CF	0	4
6	l	0	5
7	CG	0	7
7	m	0	4
8	CH	0	1
9	CI	0	4
9	o	0	5
10	CJ	0	5
10	p	0	1
11	CK	0	2
11	q	0	2
12	CL	0	2
12	r	0	3
13	CM	0	2
13	s	0	3
14	CN	0	9
14	t	0	8
15	CO	0	2
15	u	0	2
19	CS	0	1
20	CT	0	1
21	0	0	1
21	CU	0	1
22	CV	0	1
23	CW	0	3
25	CY	0	1
28	AA	0	1
28	DB	0	2
29	AB	0	3
29	DC	0	2
30	AC	0	1
31	DE	0	1
32	DF	0	1
33	AF	0	2
33	DG	0	1
34	AG	0	1
34	DH	0	1

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Mol	Chain	#Chirality outliers	#Planarity outliers
35	AH	0	1
35	DI	0	1
36	AI	0	2
36	DJ	0	1
37	DK	0	2
38	AK	0	2
39	AL	0	2
39	DM	0	1
40	DN	0	1
43	AP	0	1
44	DR	0	1
45	i	0	4
45	sM	0	2
47	A	0	1
48	B	0	6
48	s0	0	5
49	C	0	11
49	s1	0	1
50	D	0	3
50	s2	0	1
51	E	0	2
51	s3	0	14
52	F	0	3
52	s4	0	2
53	G	0	4
53	s5	0	1
54	H	0	4
54	s6	0	2
55	I	0	3
55	s7	0	9
56	J	0	3
56	s8	0	2
57	K	0	5
57	s9	0	4
58	L	0	6
58	c0	0	4
59	M	0	1
59	c1	0	1
60	N	0	12
61	c3	0	1
62	P	0	2
62	c4	0	5

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Mol	Chain	#Chirality outliers	#Planarity outliers
63	Q	0	4
63	c5	0	3
64	R	0	5
64	c6	0	6
65	S	0	3
65	c7	0	1
66	T	0	6
66	c8	0	4
67	U	0	3
68	V	0	6
68	d0	0	4
69	d1	0	1
70	X	0	1
70	d2	0	1
71	Y	0	2
71	d3	0	1
72	Z	0	1
72	d4	0	3
73	a	0	2
73	d5	0	2
74	b	0	7
74	d6	0	1
75	c	0	4
75	d7	0	1
76	d	0	2
76	d8	0	1
78	e0	0	4
78	f	0	1
79	e1	0	7
79	g	0	2
80	Rb	0	6
80	h	0	3
All	All	0	342

All (13) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	Q	68	PRO	CG-CD	-10.21	1.17	1.50
63	Q	71	GLU	CG-CD	6.89	1.62	1.51
55	I	28	GLU	CG-CD	6.88	1.62	1.51
51	s3	211	PRO	N-CA	6.71	1.58	1.47
47	A	310	C	C2-O2	-6.15	1.19	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
63	Q	68	PRO	N-CA	-6.03	1.37	1.47
62	P	79	VAL	CB-CG2	-5.93	1.40	1.52
74	b	50	VAL	CB-CG1	-5.86	1.40	1.52
63	Q	69	GLU	CA-CB	5.72	1.66	1.53
51	s3	210	GLU	C-N	5.54	1.44	1.34
11	q	128	VAL	CB-CG1	-5.37	1.41	1.52
63	Q	68	PRO	C-N	5.22	1.46	1.34
53	s5	162	VAL	C-N	-5.04	1.22	1.34

All (544) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	sR	1405	G	O5'-P-OP1	-16.11	91.20	105.70
7	m	253	PHE	C-N-CA	-11.08	94.00	121.70
47	A	357	G	N3-C2-N2	-10.82	112.32	119.90
48	B	9	LEU	CB-CG-CD1	-10.57	93.03	111.00
55	s7	63	PRO	C-N-CA	10.38	147.65	121.70
47	A	702	G	N9-C4-C5	-10.28	101.29	105.40
1	1	3217	C	N1-C2-O2	10.16	124.99	118.90
47	A	310	C	N1-C2-O2	-9.85	112.99	118.90
1	AR	3217	C	N1-C2-O2	9.66	124.69	118.90
47	A	702	G	C5-C6-O6	-9.51	122.90	128.60
47	sR	700	C	N1-C2-O2	-9.39	113.27	118.90
55	s7	34	LEU	CB-CG-CD1	-9.33	95.14	111.00
5	CE	4	ARG	C-N-CA	9.28	144.89	121.70
47	sR	687	G	N3-C2-N2	-9.20	113.46	119.90
47	sR	453	U	C2-N1-C1'	9.12	128.65	117.70
28	AA	102	GLU	C-N-CA	9.11	144.48	121.70
47	A	357	G	N3-C4-N9	-9.10	120.54	126.00
47	A	765	G	N1-C6-O6	-8.95	114.53	119.90
53	G	118	LEU	CA-CB-CG	8.84	135.63	115.30
47	A	310	C	C6-N1-C2	-8.73	116.81	120.30
47	A	702	G	C4-C5-N7	8.69	114.28	110.80
47	A	765	G	N3-C2-N2	8.67	125.97	119.90
49	C	96	LEU	CA-CB-CG	8.62	135.14	115.30
47	sR	453	U	N3-C2-O2	-8.55	116.21	122.20
57	s9	99	LEU	CA-CB-CG	8.48	134.81	115.30
59	M	15	LYS	C-N-CA	-8.46	100.56	121.70
47	A	765	G	C5-C6-O6	8.44	133.66	128.60
47	sR	163	G	N3-C4-N9	-8.41	120.95	126.00
47	sR	453	U	N1-C2-O2	8.40	128.68	122.80
1	AR	3217	C	N3-C2-O2	-8.29	116.09	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	AR	3318	G	N9-C4-C5	-8.17	102.13	105.40
53	G	114	ILE	CA-CB-CG1	-8.15	95.51	111.00
53	G	94	THR	CA-CB-CG2	-8.11	101.04	112.40
47	A	702	G	N1-C6-O6	8.06	124.74	119.90
55	I	28	GLU	OE1-CD-OE2	-8.04	113.65	123.30
1	1	979	U	P-O3'-C3'	8.04	129.34	119.70
47	sR	163	G	N3-C2-N2	-8.01	114.29	119.90
47	sR	1412	G	N3-C4-N9	-8.01	121.19	126.00
47	sR	729	G	C5-C6-O6	-7.98	123.81	128.60
47	sR	1412	G	N3-C4-C5	7.97	132.59	128.60
1	AR	3318	G	N3-C4-N9	7.95	130.77	126.00
47	A	287	G	O4'-C1'-N9	7.89	114.51	108.20
1	1	3217	C	C2-N1-C1'	7.86	127.44	118.80
1	1	406	G	O4'-C1'-N9	7.82	114.46	108.20
70	X	93	LEU	CA-CB-CG	7.80	133.25	115.30
47	A	728	U	C2-N1-C1'	7.79	127.04	117.70
63	c5	10	ARG	CD-NE-CZ	-7.75	112.75	123.60
1	1	3217	C	N3-C2-O2	-7.75	116.48	121.90
1	AR	3318	G	C6-C5-N7	-7.75	125.75	130.40
1	AR	3318	G	C8-N9-C1'	-7.74	116.94	127.00
71	d3	132	LEU	CA-CB-CG	7.73	133.09	115.30
1	1	847	A	O5'-P-OP1	-7.72	98.75	105.70
47	sR	1716	C	O4'-C1'-N1	7.71	114.37	108.20
60	N	133	LEU	CA-CB-CG	7.70	133.02	115.30
1	1	1821	U	N3-C4-C5	7.66	119.19	114.60
47	sR	1389	C	C5-C6-N1	7.66	124.83	121.00
1	1	1821	U	C6-N1-C2	7.63	125.58	121.00
1	1	1269	U	N1-C2-O2	7.59	128.12	122.80
28	DB	102	GLU	C-N-CA	7.59	140.67	121.70
1	AR	1563	C	C2-N3-C4	-7.58	116.11	119.90
47	A	1039	A	O4'-C1'-N9	7.58	114.26	108.20
47	A	900	A	O5'-P-OP1	-7.57	98.89	105.70
1	1	1279	C	C5-C6-N1	7.54	124.77	121.00
1	AR	2996	U	N1-C2-O2	7.49	128.04	122.80
1	1	3278	C	N1-C2-O2	7.47	123.38	118.90
1	AR	406	G	O4'-C1'-N9	7.45	114.16	108.20
47	A	1363	U	N1-C2-O2	7.45	128.01	122.80
47	A	728	U	N1-C2-O2	7.45	128.01	122.80
47	A	736	C	C2-N1-C1'	7.44	126.99	118.80
68	d0	34	LEU	CA-CB-CG	7.42	132.37	115.30
47	A	737	A	N9-C4-C5	-7.40	102.84	105.80
48	B	188	LEU	CB-CG-CD1	7.37	123.53	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	702	G	N3-C4-N9	7.36	130.41	126.00
1	AR	2272	G	O4'-C1'-N9	7.33	114.06	108.20
47	sR	687	G	N1-C2-N2	7.32	122.79	116.20
1	AR	1563	C	N1-C2-O2	-7.32	114.51	118.90
55	s7	34	LEU	CA-CB-CG	7.31	132.11	115.30
43	AP	35	LEU	CA-CB-CG	7.31	132.11	115.30
1	AR	2996	U	N3-C2-O2	-7.30	117.09	122.20
1	AR	3318	G	C4-N9-C1'	7.30	135.98	126.50
29	AB	47	LYS	C-N-CA	7.29	139.92	121.70
43	AP	29	LYS	C-N-CA	7.26	139.85	121.70
1	AR	3318	G	C4-C5-N7	7.26	113.70	110.80
66	c8	61	LEU	CB-CG-CD1	-7.25	98.68	111.00
47	sR	813	U	N1-C2-O2	7.24	127.86	122.80
47	sR	729	G	N1-C6-O6	7.22	124.23	119.90
1	1	1579	C	C2-N1-C1'	-7.21	110.88	118.80
1	1	1269	U	C2-N1-C1'	7.20	126.34	117.70
1	1	1496	C	C2-N1-C1'	7.20	126.72	118.80
55	s7	38	LEU	CB-CG-CD1	7.20	123.23	111.00
1	AR	3217	C	C2-N1-C1'	7.19	126.71	118.80
29	DC	48	TYR	CB-CA-C	-7.17	96.06	110.40
54	s6	69	LEU	CA-CB-CG	7.15	131.75	115.30
6	l	182	LEU	CA-CB-CG	7.14	131.72	115.30
47	sR	151	G	N3-C2-N2	-7.13	114.91	119.90
1	1	1279	C	C6-N1-C2	-7.12	117.45	120.30
47	A	1363	U	N3-C2-O2	-7.12	117.22	122.20
1	AR	1016	C	C2-N1-C1'	7.11	126.63	118.80
55	s7	185	ILE	CG1-CB-CG2	-7.02	95.96	111.40
52	F	214	LEU	CA-CB-CG	7.01	131.43	115.30
77	d9	9	SER	C-N-CA	7.01	139.23	121.70
57	s9	118	LEU	CA-CB-CG	7.01	131.42	115.30
1	1	2443	A	O4'-C1'-N9	6.99	113.79	108.20
1	AR	2873	U	N1-C2-O2	6.96	127.67	122.80
47	A	1364	G	N9-C4-C5	-6.96	102.62	105.40
1	AR	2726	C	C6-N1-C2	-6.95	117.52	120.30
47	A	728	U	N3-C2-O2	-6.94	117.34	122.20
47	A	702	G	C6-C5-N7	-6.94	126.24	130.40
47	sR	1473	U	C2-N1-C1'	6.94	126.02	117.70
56	s8	100	ALA	C-N-CA	6.90	138.96	121.70
29	DC	47	LYS	C-N-CA	6.89	138.93	121.70
47	A	1664	C	C2-N1-C1'	6.89	126.38	118.80
1	AR	1016	C	N1-C2-O2	6.89	123.03	118.90
1	AR	3359	A	N9-C4-C5	-6.89	103.05	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	310	C	N1-C2-N3	6.89	124.02	119.20
47	A	543	C	N1-C2-O2	6.88	123.03	118.90
1	1	1269	U	N3-C2-O2	-6.86	117.40	122.20
1	AR	2996	U	C2-N1-C1'	6.85	125.92	117.70
1	AR	3217	C	C6-N1-C2	-6.83	117.57	120.30
1	1	552	G	N3-C2-N2	-6.82	115.12	119.90
63	Q	68	PRO	N-CA-CB	-6.82	95.10	102.60
1	1	1821	U	C5-C6-N1	-6.82	119.29	122.70
14	CN	6	ASN	C-N-CA	6.80	138.69	121.70
47	A	274	G	N3-C4-N9	6.78	130.07	126.00
47	sR	1389	C	C2-N1-C1'	6.76	126.24	118.80
51	s3	211	PRO	CA-N-CD	-6.72	102.09	111.50
47	A	1364	G	C6-C5-N7	-6.72	126.37	130.40
1	1	3181	C	N1-C2-O2	6.71	122.93	118.90
1	1	2842	U	N1-C2-O2	6.71	127.50	122.80
47	A	1363	U	C2-N1-C1'	6.70	125.74	117.70
47	sR	653	C	N1-C2-O2	6.69	122.92	118.90
47	sR	813	U	N3-C2-O2	-6.69	117.52	122.20
47	A	189	C	C2-N1-C1'	6.69	126.16	118.80
47	A	705	U	O5'-P-OP1	-6.68	99.69	105.70
54	H	126	ASP	CB-CG-OD1	6.68	124.31	118.30
47	A	274	G	C6-C5-N7	-6.67	126.40	130.40
46	p0	30	VAL	CA-CB-CG1	6.66	120.89	110.90
47	sR	163	G	N3-C4-C5	6.66	131.93	128.60
73	a	70	LYS	CD-CE-NZ	-6.65	96.40	111.70
47	sR	151	G	N3-C4-N9	-6.64	122.01	126.00
1	AR	2873	U	N3-C2-O2	-6.64	117.55	122.20
47	sR	813	U	C2-N1-C1'	6.64	125.66	117.70
52	F	52	LEU	CA-CB-CG	6.63	130.55	115.30
29	AB	77	LYS	C-N-CA	6.61	138.24	121.70
12	CL	23	ASN	C-N-CA	6.61	138.23	121.70
55	s7	73	VAL	C-N-CA	6.61	138.22	121.70
47	sR	187	G	OP1-P-O3'	6.58	119.68	105.20
47	sR	1039	A	O4'-C1'-N9	6.58	113.47	108.20
1	1	1821	U	C2-N3-C4	-6.58	123.05	127.00
47	sR	280	U	C2-N1-C1'	6.57	125.58	117.70
1	1	1104	G	O5'-P-OP1	-6.56	99.79	105.70
47	sR	1473	U	N1-C2-O2	6.56	127.39	122.80
47	A	189	C	N1-C2-O2	6.56	122.83	118.90
47	A	700	C	C2-N1-C1'	6.55	126.01	118.80
47	A	735	C	N3-C2-O2	-6.55	117.31	121.90
47	A	735	C	N1-C2-O2	6.53	122.82	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	507	U	C2-N1-C1'	6.51	125.51	117.70
47	A	274	G	C8-N9-C1'	-6.50	118.55	127.00
13	CM	172	LEU	CA-CB-CG	6.49	130.22	115.30
80	h	71	CYS	CA-CB-SG	-6.49	102.33	114.00
7	CG	20	PHE	C-N-CA	6.48	137.89	121.70
1	1	1579	C	C6-N1-C1'	6.47	128.56	120.80
47	A	1364	G	C4-C5-N7	6.47	113.39	110.80
1	1	2726	C	C6-N1-C2	-6.46	117.72	120.30
76	d8	33	LEU	CA-CB-CG	6.45	130.13	115.30
55	s7	81	LEU	CA-CB-CG	6.44	130.12	115.30
1	1	3278	C	N3-C2-O2	-6.43	117.40	121.90
1	1	922	U	C2-N1-C1'	6.43	125.41	117.70
1	AR	2726	C	N3-C2-O2	-6.42	117.40	121.90
1	AR	3278	C	C2-N1-C1'	6.41	125.85	118.80
47	A	736	C	C6-N1-C1'	-6.40	113.11	120.80
47	A	357	G	N9-C4-C5	6.40	107.96	105.40
47	A	274	G	C4-N9-C1'	6.36	134.77	126.50
26	CZ	58	ASP	CB-CG-OD1	6.36	124.02	118.30
1	AR	3318	G	N1-C6-O6	6.35	123.71	119.90
47	A	1389	C	C2-N1-C1'	6.35	125.79	118.80
80	Rb	91	LEU	CA-CB-CG	6.33	129.86	115.30
1	1	2257	C	C2-N1-C1'	6.30	125.73	118.80
60	N	133	LEU	CB-CG-CD2	6.30	121.71	111.00
1	1	1174	G	C8-N9-C4	-6.30	103.88	106.40
47	sR	176	C	N1-C2-O2	6.29	122.68	118.90
47	A	934	C	C2-N1-C1'	6.29	125.71	118.80
64	c6	105	LEU	CA-CB-CG	6.28	129.75	115.30
1	AR	2873	U	C2-N1-C1'	6.28	125.23	117.70
47	A	824	G	N3-C4-N9	6.28	129.76	126.00
47	sR	1058	U	OP1-P-O3'	6.27	118.99	105.20
4	CD	180	LEU	CA-CB-CG	6.26	129.71	115.30
1	1	2842	U	N3-C2-O2	-6.26	117.82	122.20
1	AR	2836	C	N1-C2-O2	6.25	122.65	118.90
1	AR	1496	C	C2-N1-C1'	6.25	125.67	118.80
50	s2	225	LEU	CB-CG-CD2	-6.24	100.39	111.00
53	s5	175	LEU	CA-CB-CG	6.24	129.64	115.30
23	CW	105	LEU	CA-CB-CG	6.23	129.63	115.30
47	A	581	U	C2-N1-C1'	6.23	125.18	117.70
1	1	2546	C	C2-N1-C1'	6.23	125.65	118.80
47	sR	729	G	C6-C5-N7	-6.22	126.67	130.40
12	r	188	GLY	N-CA-C	6.21	128.63	113.10
65	c7	104	ASN	C-N-CA	6.21	137.23	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	1364	G	N3-C4-N9	6.21	129.72	126.00
47	sR	163	G	N1-C2-N2	6.20	121.78	116.20
1	AR	2257	C	C2-N1-C1'	6.19	125.61	118.80
1	AR	1770	G	N9-C4-C5	-6.18	102.93	105.40
14	CN	62	THR	C-N-CA	6.17	137.13	121.70
3	AT	85	G	P-O3'-C3'	6.16	127.09	119.70
47	sR	1098	U	O5'-P-OP2	-6.16	100.16	105.70
47	A	1246	C	N1-C2-O2	6.16	122.59	118.90
53	s5	100	ASN	C-N-CA	6.16	135.23	122.30
47	A	507	U	N3-C2-O2	-6.15	117.89	122.20
47	sR	729	G	N3-C4-N9	6.15	129.69	126.00
47	A	720	G	OP1-P-O3'	6.15	118.72	105.20
63	c5	10	ARG	CA-CB-CG	6.14	126.91	113.40
47	sR	1600	A	OP1-P-O3'	6.13	118.69	105.20
74	d6	57	SER	C-N-CA	6.12	136.99	121.70
63	c5	10	ARG	NE-CZ-NH2	6.10	123.35	120.30
47	A	1058	U	N1-C2-O2	6.08	127.06	122.80
47	A	187	G	OP1-P-O3'	6.08	118.57	105.20
51	E	157	LEU	CA-CB-CG	6.07	129.27	115.30
47	sR	647	G	N3-C2-N2	-6.06	115.66	119.90
14	t	6	ASN	C-N-CA	6.05	136.83	121.70
47	A	507	U	N1-C2-O2	6.05	127.03	122.80
29	DC	48	TYR	N-CA-C	6.04	127.32	111.00
6	l	313	LEU	CA-CB-CG	6.04	129.19	115.30
47	A	702	G	C8-N9-C4	6.03	108.81	106.40
7	m	234	ASP	C-N-CA	6.03	136.78	121.70
1	AR	1556	C	N1-C2-O2	6.02	122.51	118.90
1	1	2541	U	P-O3'-C3'	5.99	126.89	119.70
75	c	3	LEU	CA-CB-CG	5.99	129.07	115.30
43	AP	29	LYS	N-CA-C	5.98	127.15	111.00
47	sR	272	U	P-O3'-C3'	5.97	126.87	119.70
1	1	2550	U	N3-C2-O2	-5.96	118.03	122.20
1	1	3217	C	C6-N1-C2	-5.96	117.92	120.30
1	1	2842	U	C2-N1-C1'	5.96	124.85	117.70
47	A	274	G	C5-C6-O6	-5.96	125.03	128.60
47	A	1058	U	C2-N1-C1'	5.95	124.84	117.70
66	c8	45	LEU	CA-CB-CG	5.95	128.99	115.30
1	AR	3318	G	C5-C6-O6	-5.95	125.03	128.60
47	sR	1568	C	P-O3'-C3'	5.95	126.84	119.70
47	sR	280	U	N1-C2-O2	5.94	126.96	122.80
1	AR	1770	G	N3-C4-N9	5.94	129.56	126.00
1	AR	3034	C	N1-C2-O2	5.92	122.45	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	F	164	LEU	CA-CB-CG	5.92	128.93	115.30
78	f	49	LEU	CA-CB-CG	5.91	128.90	115.30
49	C	54	LEU	CA-CB-CG	5.90	128.88	115.30
5	CE	102	LEU	CA-CB-CG	5.89	128.85	115.30
47	A	639	U	N1-C2-O2	5.88	126.92	122.80
1	1	1821	U	N3-C4-O4	-5.88	115.28	119.40
47	A	184	C	C2-N1-C1'	5.88	125.26	118.80
52	F	214	LEU	CB-CG-CD1	5.87	120.98	111.00
1	1	2870	C	C6-N1-C1'	5.87	127.85	120.80
47	sR	1274	C	N1-C2-O2	5.87	122.42	118.90
58	c0	2	LEU	CA-CB-CG	5.87	128.79	115.30
63	c5	10	ARG	NE-CZ-NH1	-5.86	117.37	120.30
1	AR	1580	A	C8-N9-C4	5.86	108.14	105.80
47	A	274	G	N9-C4-C5	-5.85	103.06	105.40
47	A	1150	G	P-O3'-C3'	5.84	126.70	119.70
55	s7	72	LYS	C-N-CA	-5.83	107.12	121.70
47	A	1474	G	C2-N3-C4	5.82	114.81	111.90
48	B	9	LEU	CB-CG-CD2	-5.82	101.11	111.00
1	1	1556	C	C2-N1-C1'	5.81	125.19	118.80
47	A	1761	U	P-O3'-C3'	5.81	126.67	119.70
47	sR	1000	C	C2-N1-C1'	5.80	125.18	118.80
47	sR	151	G	N9-C4-C5	5.80	107.72	105.40
54	s6	68	LEU	C-N-CA	-5.80	107.21	121.70
47	sR	542	A	P-O3'-C3'	5.79	126.65	119.70
47	A	357	G	N3-C4-C5	5.79	131.49	128.60
47	A	736	C	C5-C6-N1	5.79	123.89	121.00
47	sR	275	C	C2-N1-C1'	5.78	125.15	118.80
47	A	274	G	N1-C6-O6	5.77	123.36	119.90
47	A	1471	A	N1-C2-N3	5.77	132.19	129.30
74	d6	9	GLY	C-N-CA	5.77	136.12	121.70
1	1	1766	G	C8-N9-C1'	-5.76	119.52	127.00
1	AR	1329	U	P-O3'-C3'	5.76	126.61	119.70
47	A	737	A	O4'-C1'-N9	5.75	112.80	108.20
1	AR	1016	C	N3-C2-O2	-5.75	117.88	121.90
29	AB	116	GLY	N-CA-C	5.75	127.47	113.10
69	d1	8	LEU	C-N-CA	5.75	136.07	121.70
47	A	720	G	P-O3'-C3'	5.74	126.59	119.70
63	Q	125	PRO	CA-C-N	5.74	129.83	117.20
1	AR	922	U	C2-N1-C1'	5.74	124.59	117.70
47	A	778	G	C2-N3-C4	5.73	114.77	111.90
1	1	3131	U	C2-N1-C1'	5.73	124.58	117.70
47	A	189	C	C6-N1-C1'	-5.73	113.92	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	581	U	N1-C2-O2	5.73	126.81	122.80
47	sR	1458	G	C4-N9-C1'	5.73	133.94	126.50
1	AR	1115	G	C4-N9-C1'	5.72	133.94	126.50
66	c8	94	ASP	CB-CG-OD1	5.72	123.45	118.30
1	AR	2846	U	N3-C2-O2	-5.71	118.20	122.20
1	1	2978	U	O4'-C1'-N1	5.71	112.77	108.20
56	J	29	LEU	CA-CB-CG	5.71	128.43	115.30
1	AR	2388	U	N3-C2-O2	-5.70	118.21	122.20
1	1	2133	U	C5-C4-O4	-5.70	122.48	125.90
6	CF	182	LEU	CA-CB-CG	5.69	128.38	115.30
60	N	74	LEU	CA-CB-CG	5.68	128.37	115.30
47	sR	489	C	C2-N1-C1'	5.68	125.05	118.80
1	1	2870	C	C2-N1-C1'	-5.68	112.55	118.80
1	AR	1241	U	OP1-P-O3'	5.68	117.70	105.20
1	1	3131	U	C5-C4-O4	-5.68	122.49	125.90
1	1	1766	G	C4-N9-C1'	5.68	133.88	126.50
47	sR	965	U	C2-N1-C1'	5.68	124.51	117.70
52	F	143	ASP	CB-CG-OD2	5.67	123.40	118.30
47	sR	729	G	N9-C4-C5	-5.65	103.14	105.40
1	1	1496	C	C6-N1-C1'	-5.65	114.02	120.80
47	sR	1428	G	O5'-P-OP1	-5.64	100.63	105.70
3	AT	100	U	C2-N1-C1'	5.63	124.45	117.70
47	sR	700	C	C2-N3-C4	-5.63	117.08	119.90
48	s0	150	ASP	CB-CG-OD1	5.62	123.36	118.30
29	AB	48	TYR	CA-CB-CG	5.62	124.08	113.40
19	y	41	ASP	CB-CG-OD1	5.62	123.36	118.30
47	A	824	G	N9-C4-C5	-5.61	103.16	105.40
1	AR	1579	C	C6-N1-C2	5.61	122.54	120.30
47	A	824	G	C8-N9-C1'	-5.61	119.71	127.00
53	s5	41	LYS	CD-CE-NZ	5.61	124.60	111.70
47	A	639	U	N3-C2-O2	-5.60	118.28	122.20
13	s	112	LEU	C-N-CA	-5.60	110.54	122.30
50	D	242	ILE	CG1-CB-CG2	-5.59	99.09	111.40
47	sR	1473	U	N3-C2-O2	-5.59	118.29	122.20
1	AR	551	A	O4'-C1'-N9	5.59	112.67	108.20
47	sR	700	C	C2-N1-C1'	-5.58	112.67	118.80
2	AS	39	C	N1-C2-O2	5.57	122.24	118.90
47	sR	687	G	N3-C4-N9	-5.57	122.66	126.00
47	sR	767	U	C2-N1-C1'	5.57	124.38	117.70
57	s9	66	ASP	CB-CG-OD1	5.57	123.31	118.30
1	1	2574	G	N1-C6-O6	-5.56	116.56	119.90
47	sR	755	A	P-O3'-C3'	5.56	126.37	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	650	U	C2-N1-C1'	5.55	124.36	117.70
1	1	922	U	N1-C2-O2	5.55	126.69	122.80
1	AR	3181	C	N1-C2-O2	5.55	122.23	118.90
47	A	158	U	P-O3'-C3'	5.54	126.35	119.70
47	A	824	G	C6-C5-N7	-5.54	127.07	130.40
47	A	357	G	C6-C5-N7	5.54	133.72	130.40
47	A	1274	C	N1-C2-O2	5.54	122.22	118.90
60	N	62	LEU	CA-CB-CG	5.53	128.03	115.30
1	AR	3279	A	N9-C4-C5	-5.53	103.59	105.80
69	W	66	ASP	CB-CG-OD1	5.53	123.28	118.30
47	sR	1389	C	C2-N3-C4	5.53	122.67	119.90
1	AR	1604	G	C4-N9-C1'	5.53	133.69	126.50
1	1	1103	A	OP1-P-O3'	5.52	117.34	105.20
66	T	101	LEU	C-N-CA	5.52	135.50	121.70
63	c5	71	GLU	C-N-CA	5.52	135.50	121.70
66	c8	3	LEU	CA-CB-CG	5.52	128.00	115.30
47	sR	158	U	P-O3'-C3'	5.51	126.32	119.70
54	H	37	ASP	C-N-CA	5.50	133.86	122.30
47	A	737	A	N1-C6-N6	5.50	121.90	118.60
47	A	1212	G	N3-C2-N2	-5.50	116.05	119.90
1	AR	2541	U	P-O3'-C3'	5.50	126.30	119.70
13	s	40	LEU	CA-CB-CG	5.49	127.94	115.30
1	AR	3359	A	C4-C5-N7	5.48	113.44	110.70
47	A	824	G	C4-N9-C1'	5.48	133.63	126.50
76	d8	56	LEU	CA-CB-CG	5.48	127.91	115.30
1	1	1103	A	P-O3'-C3'	5.48	126.28	119.70
12	r	23	ASN	C-N-CA	5.48	135.40	121.70
47	sR	1573	A	OP2-P-O3'	5.48	117.25	105.20
70	X	112	ASP	CB-CG-OD1	5.47	123.23	118.30
47	sR	1412	G	N3-C2-N2	-5.47	116.07	119.90
47	A	1568	C	P-O3'-C3'	5.47	126.27	119.70
73	d5	42	LEU	CA-CB-CG	5.47	127.88	115.30
1	1	2227	C	P-O3'-C3'	5.47	126.26	119.70
29	DC	77	LYS	C-N-CA	5.46	135.36	121.70
47	A	310	C	N3-C4-C5	-5.46	119.71	121.90
63	Q	67	ALA	CB-CA-C	-5.46	101.90	110.10
47	sR	453	U	C6-N1-C1'	-5.46	113.55	121.20
47	A	1150	G	OP2-P-O3'	5.46	117.22	105.20
47	A	737	A	N1-C2-N3	-5.45	126.57	129.30
52	F	143	ASP	CB-CG-OD1	-5.44	113.40	118.30
47	sR	794	U	OP2-P-O3'	5.44	117.17	105.20
1	1	3362	A	O4'-C1'-N9	5.44	112.55	108.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	sR	25	C	P-O3'-C3'	5.43	126.22	119.70
3	4	39	G	O4'-C1'-N9	5.43	112.54	108.20
64	R	39	VAL	C-N-CA	5.42	135.26	121.70
1	1	1227	C	N1-C2-O2	5.42	122.15	118.90
1	AR	2522	G	N3-C4-N9	5.42	129.25	126.00
47	A	1664	C	C6-N1-C1'	-5.42	114.30	120.80
1	1	1766	G	N3-C4-N9	5.42	129.25	126.00
47	A	1058	U	N3-C2-O2	-5.42	118.41	122.20
47	A	139	C	P-O3'-C3'	5.42	126.20	119.70
14	t	62	THR	C-N-CA	5.41	135.23	121.70
1	AR	2546	C	C2-N1-C1'	5.41	124.75	118.80
47	A	737	A	C6-C5-N7	-5.41	128.52	132.30
47	sR	957	G	N3-C2-N2	-5.40	116.12	119.90
47	sR	1058	U	P-O3'-C3'	5.40	126.18	119.70
47	sR	610	G	C4-N9-C1'	5.40	133.51	126.50
3	4	100	U	C2-N1-C1'	5.39	124.17	117.70
27	9	126	LEU	CA-CB-CG	5.38	127.68	115.30
53	G	36	ALA	C-N-CA	5.38	135.16	121.70
1	1	1227	C	C2-N1-C1'	5.38	124.72	118.80
29	AB	48	TYR	CB-CA-C	-5.38	99.64	110.40
74	d6	7	SER	C-N-CA	5.38	135.15	121.70
1	AR	2550	U	C2-N1-C1'	5.38	124.15	117.70
1	1	2249	G	P-O3'-C3'	5.37	126.15	119.70
49	C	32	ILE	N-CA-CB	5.37	123.14	110.80
47	A	274	G	C4-C5-N7	5.36	112.95	110.80
47	A	1052	U	N3-C2-O2	-5.36	118.45	122.20
76	d	56	LEU	CA-CB-CG	5.36	127.64	115.30
49	s1	231	LEU	CA-CB-CG	5.36	127.63	115.30
47	A	310	C	C6-N1-C1'	5.35	127.22	120.80
47	A	1052	U	N1-C2-O2	5.35	126.55	122.80
1	AR	3034	C	N3-C2-O2	-5.35	118.16	121.90
76	d	57	MET	CG-SD-CE	-5.35	91.64	100.20
47	sR	1440	C	N1-C2-O2	5.35	122.11	118.90
52	F	12	LEU	CB-CG-CD2	-5.34	101.92	111.00
1	1	2726	C	N3-C2-O2	-5.34	118.16	121.90
47	sR	280	U	N3-C2-O2	-5.34	118.46	122.20
47	sR	453	U	C6-N1-C2	-5.33	117.80	121.00
1	AR	620	U	O4'-C1'-N1	5.33	112.46	108.20
47	sR	709	C	N1-C2-O2	5.33	122.09	118.90
1	AR	3218	A	P-O3'-C3'	5.32	126.09	119.70
28	DB	5	LEU	CB-CG-CD2	-5.32	101.95	111.00
1	1	1329	U	P-O3'-C3'	5.32	126.08	119.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	1481	C	OP1-P-O3'	5.32	116.90	105.20
60	N	133	LEU	CB-CG-CD1	-5.32	101.97	111.00
1	1	1820	U	P-O3'-C3'	5.31	126.07	119.70
47	sR	687	G	N9-C4-C5	5.30	107.52	105.40
1	AR	2652	U	N3-C2-O2	-5.30	118.49	122.20
47	A	1573	A	OP2-P-O3'	5.30	116.86	105.20
1	1	1581	C	N3-C2-O2	-5.30	118.19	121.90
47	sR	697	C	C6-N1-C2	-5.30	118.18	120.30
47	A	1157	A	P-O3'-C3'	5.29	126.04	119.70
47	sR	272	U	OP2-P-O3'	5.29	116.83	105.20
47	sR	755	A	O4'-C1'-N9	5.28	112.43	108.20
1	1	1234	G	N3-C2-N2	-5.28	116.20	119.90
63	Q	125	PRO	N-CA-C	5.28	125.83	112.10
47	A	1657	U	C5-C6-N1	-5.28	120.06	122.70
47	A	1568	C	OP2-P-O3'	5.27	116.80	105.20
1	AR	3359	A	C6-C5-N7	-5.27	128.61	132.30
47	sR	1596	C	N3-C2-O2	-5.26	118.22	121.90
1	1	1581	C	N1-C2-O2	5.25	122.05	118.90
1	AR	2870	C	C6-N1-C1'	5.25	127.10	120.80
1	AR	3131	U	C2-N1-C1'	5.25	124.00	117.70
1	1	439	C	C2-N1-C1'	5.25	124.57	118.80
47	A	778	G	N9-C4-C5	5.25	107.50	105.40
1	1	1355	A	P-O3'-C3'	5.24	125.99	119.70
47	A	959	U	N1-C2-O2	5.24	126.47	122.80
47	A	1364	G	C8-N9-C1'	-5.24	120.19	127.00
1	AR	237	G	N3-C4-N9	5.23	129.14	126.00
47	A	1514	U	N1-C2-O2	5.23	126.46	122.80
1	AR	2930	A	O4'-C1'-N9	5.22	112.38	108.20
74	d6	9	GLY	CA-C-N	-5.22	105.71	117.20
80	Rb	179	LYS	CD-CE-NZ	5.22	123.70	111.70
65	S	84	TYR	CA-CB-CG	5.21	123.31	113.40
1	1	3217	C	C5-C6-N1	5.21	123.60	121.00
1	AR	101	G	O4'-C1'-N9	5.21	112.37	108.20
47	A	765	G	N1-C2-N2	-5.21	111.51	116.20
1	AR	2836	C	N3-C2-O2	-5.21	118.26	121.90
47	sR	42	G	O4'-C1'-N9	5.21	112.36	108.20
1	AR	3346	U	C5-C4-O4	-5.21	122.78	125.90
47	A	734	A	OP1-P-O3'	5.20	116.64	105.20
47	A	1307	U	C2-N1-C1'	5.20	123.94	117.70
55	I	129	LEU	CA-CB-CG	5.20	127.25	115.30
1	1	1579	C	N1-C2-O2	-5.19	115.78	118.90
1	1	1279	C	N1-C2-O2	5.19	122.01	118.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	A	1052	U	C2-N1-C1'	5.19	123.93	117.70
55	I	38	LEU	CB-CG-CD1	-5.19	102.18	111.00
80	h	202	LEU	CA-CB-CG	-5.19	103.37	115.30
1	1	3217	C	C6-N1-C1'	-5.18	114.58	120.80
47	sR	1573	A	P-O3'-C3'	5.18	125.92	119.70
47	sR	767	U	N3-C2-O2	-5.18	118.58	122.20
1	1	2546	C	C6-N1-C1'	-5.17	114.59	120.80
1	AR	3344	A	O4'-C1'-N9	5.17	112.34	108.20
49	s1	73	LEU	CB-CG-CD1	-5.17	102.21	111.00
1	AR	1283	C	N3-C2-O2	-5.17	118.28	121.90
56	J	193	LEU	CA-CB-CG	5.17	127.19	115.30
1	AR	2679	A	O4'-C1'-N9	5.16	112.33	108.20
1	1	2133	U	N3-C4-O4	5.16	123.01	119.40
5	k	346	THR	C-N-CA	5.16	134.59	121.70
47	A	1060	U	C2-N1-C1'	5.15	123.88	117.70
63	Q	25	LEU	CA-CB-CG	5.14	127.13	115.30
1	1	1716	U	P-O3'-C3'	5.14	125.87	119.70
47	sR	1097	U	P-O3'-C3'	5.14	125.87	119.70
47	sR	1412	G	C4-N9-C1'	-5.14	119.81	126.50
47	A	1060	U	N1-C2-O2	5.14	126.40	122.80
47	sR	158	U	OP1-P-O3'	5.14	116.50	105.20
47	sR	709	C	N3-C2-O2	-5.14	118.30	121.90
47	sR	781	U	N3-C2-O2	-5.13	118.61	122.20
54	s6	66	GLY	C-N-CA	-5.13	108.87	121.70
1	1	1562	C	P-O3'-C3'	5.13	125.85	119.70
1	1	1604	G	C4-N9-C1'	5.13	133.17	126.50
1	AR	1815	U	P-O3'-C3'	5.12	125.85	119.70
49	C	157	GLN	C-N-CA	5.12	134.51	121.70
47	sR	1389	C	C6-N1-C2	-5.12	118.25	120.30
47	A	965	U	C2-N1-C1'	5.12	123.85	117.70
47	sR	781	U	N1-C2-O2	5.12	126.39	122.80
72	Z	40	LEU	CA-CB-CG	5.12	127.07	115.30
47	sR	1600	A	P-O3'-C3'	5.12	125.84	119.70
1	1	2403	G	O4'-C1'-N9	5.11	112.29	108.20
47	sR	1458	G	C8-N9-C1'	-5.11	120.36	127.00
35	AH	67	LYS	CD-CE-NZ	-5.10	99.96	111.70
1	AR	2533	G	C5-C6-O6	-5.10	125.54	128.60
54	H	126	ASP	CB-CG-OD2	-5.10	113.71	118.30
47	sR	1447	C	N1-C2-O2	5.10	121.96	118.90
72	Z	127	LYS	CA-CB-CG	5.09	124.60	113.40
54	s6	68	LEU	CA-CB-CG	-5.08	103.60	115.30
66	c8	17	LEU	CA-CB-CG	5.08	126.99	115.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	1	552	G	N9-C4-C5	5.08	107.43	105.40
47	sR	1246	C	N1-C2-O2	5.08	121.95	118.90
1	AR	2575	G	C5-C6-O6	5.08	131.65	128.60
47	A	73	U	O4'-C1'-N1	5.08	112.26	108.20
47	sR	176	C	N3-C2-O2	-5.08	118.35	121.90
48	s0	16	LEU	CA-CB-CG	5.07	126.97	115.30
47	A	728	U	C6-N1-C1'	-5.07	114.10	121.20
47	sR	512	A	P-O3'-C3'	5.07	125.79	119.70
47	sR	1255	G	P-O3'-C3'	5.07	125.78	119.70
68	d0	34	LEU	CB-CG-CD1	5.07	119.62	111.00
1	1	1766	G	C6-C5-N7	-5.07	127.36	130.40
47	sR	453	U	C5-C6-N1	5.07	125.23	122.70
1	1	2112	U	OP2-P-O3'	5.06	116.33	105.20
50	s2	149	GLY	N-CA-C	5.06	125.75	113.10
47	A	581	U	N3-C2-O2	-5.06	118.66	122.20
54	s6	20	ASP	CB-CG-OD1	5.06	122.85	118.30
29	AB	48	TYR	N-CA-C	5.06	124.65	111.00
35	AH	51	LEU	CA-CB-CG	5.05	126.92	115.30
1	AR	1239	C	C2-N1-C1'	5.05	124.36	118.80
1	1	3278	C	C2-N1-C1'	5.05	124.36	118.80
1	AR	2112	U	P-O3'-C3'	5.05	125.76	119.70
47	A	934	C	C6-N1-C1'	-5.05	114.74	120.80
1	1	2546	C	C5-C4-N4	-5.05	116.67	120.20
47	A	1514	U	N3-C2-O2	-5.05	118.67	122.20
47	sR	647	G	N3-C4-N9	-5.05	122.97	126.00
47	sR	1704	U	N3-C2-O2	-5.04	118.67	122.20
1	1	1279	C	C2-N1-C1'	5.04	124.35	118.80
1	1	552	G	N3-C4-N9	-5.04	122.98	126.00
47	A	824	G	C4-C5-N7	5.04	112.82	110.80
1	1	2533	G	C5-C6-O6	-5.04	125.58	128.60
47	A	25	C	P-O3'-C3'	5.04	125.75	119.70
74	b	9	GLY	N-CA-C	-5.04	100.51	113.10
53	s5	219	ARG	NE-CZ-NH1	5.04	122.82	120.30
47	A	1274	C	C2-N1-C1'	5.04	124.34	118.80
47	A	736	C	N1-C2-O2	5.03	121.92	118.90
1	1	2652	U	N3-C2-O2	-5.03	118.68	122.20
47	A	1258	U	N3-C2-O2	-5.03	118.68	122.20
47	A	1458	G	N3-C4-N9	5.02	129.01	126.00
49	s1	231	LEU	CB-CG-CD2	-5.02	102.47	111.00
47	A	1624	C	N1-C2-O2	5.02	121.91	118.90
5	k	153	LYS	C-N-CA	5.01	134.24	121.70
1	AR	1563	C	C2-N1-C1'	-5.01	113.28	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	CE	351	LEU	CA-CB-CG	5.01	126.83	115.30
49	C	224	ASP	CB-CG-OD2	-5.01	113.79	118.30
43	AP	29	LYS	CA-C-N	5.01	128.22	117.20
1	AR	65	A	P-O3'-C3'	5.01	125.71	119.70
1	AR	2870	C	C2-N1-C1'	-5.01	113.29	118.80
47	sR	275	C	C6-N1-C1'	-5.01	114.79	120.80
1	AR	3278	C	C6-N1-C1'	-5.01	114.79	120.80
47	sR	75	U	O4'-C1'-N1	5.01	112.20	108.20
47	A	1573	A	P-O3'-C3'	5.00	125.71	119.70
67	U	67	MET	CG-SD-CE	-5.00	92.19	100.20

There are no chirality outliers.

All (342) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
21	0	22	PRO	Peptide
47	A	310	C	Sidechain
28	AA	102	GLU	Peptide
29	AB	116	GLY	Peptide
29	AB	66	ALA	Peptide
29	AB	97	GLU	Peptide
30	AC	20	GLY	Peptide
33	AF	11	LYS	Peptide
33	AF	12	LYS	Peptide
34	AG	59	VAL	Peptide
35	AH	106	LYS	Peptide
36	AI	118	ILE	Peptide
36	AI	83	LYS	Peptide
38	AK	79	GLN	Peptide
38	AK	85	LYS	Peptide
39	AL	32	ASN	Peptide
39	AL	64	LYS	Peptide
43	AP	29	LYS	Peptide
48	B	113	ARG	Peptide
48	B	157	ASP	Peptide
48	B	202	TYR	Peptide
48	B	27	ARG	Peptide
48	B	4	PRO	Peptide
48	B	93	THR	Peptide
49	C	158	SER	Mainchain
49	C	174	LYS	Peptide
49	C	212	VAL	Peptide

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Mol	Chain	Res	Type	Group
49	C	222	LYS	Peptide
49	C	32	ILE	Peptide
49	C	43	VAL	Peptide
49	C	52	THR	Peptide
49	C	53	GLY	Peptide
49	C	54	LEU	Peptide
49	C	57	ALA	Peptide
49	C	95	ASN	Peptide
4	CD	143	GLU	Peptide
4	CD	25	GLY	Peptide
4	CD	250	GLN	Peptide
5	CE	3	HIS	Peptide
5	CE	4	ARG	Peptide
6	CF	13	GLY	Peptide
6	CF	15	ALA	Peptide
6	CF	182	LEU	Peptide
6	CF	191	LYS	Peptide
7	CG	177	GLU	Peptide
7	CG	19	PRO	Peptide
7	CG	20	PHE	Peptide
7	CG	221	GLU	Peptide
7	CG	261	THR	Peptide
7	CG	4	GLN	Peptide
7	CG	43	LYS	Peptide
8	CH	97	ASN	Peptide
9	CI	163	LEU	Peptide
9	CI	190	THR	Peptide
9	CI	232	ARG	Peptide
9	CI	24	GLU	Peptide
10	CJ	114	ALA	Peptide
10	CJ	119	GLY	Peptide
10	CJ	121	SER	Peptide
10	CJ	195	SER	Peptide
10	CJ	40	VAL	Peptide
11	CK	105	GLU	Peptide
11	CK	21	LYS	Peptide
12	CL	186	GLU	Peptide
12	CL	23	ASN	Peptide
13	CM	172	LEU	Peptide
13	CM	9	MET	Peptide
14	CN	164	GLU	Peptide
14	CN	165	SER	Peptide

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Mol	Chain	Res	Type	Group
14	CN	185	LYS	Peptide
14	CN	4	SER	Peptide
14	CN	46	ILE	Peptide
14	CN	47	ALA	Peptide
14	CN	5	LYS	Peptide
14	CN	61	PRO	Peptide
14	CN	62	THR	Peptide
15	CO	7	VAL	Peptide
15	CO	8	LYS	Peptide
19	CS	98	LYS	Peptide
20	CT	159	ALA	Peptide
21	CU	133	ALA	Peptide
22	CV	125	ALA	Peptide
23	CW	107	PHE	Peptide
23	CW	13	LYS	Peptide
23	CW	44	GLU	Peptide
25	CY	25	ASP	Peptide
50	D	237	VAL	Peptide
50	D	247	ALA	Peptide
50	D	47	ALA	Peptide
28	DB	101	PHE	Peptide
28	DB	102	GLU	Peptide
29	DC	38	GLN	Peptide
29	DC	48	TYR	Peptide
31	DE	99	ASP	Peptide
32	DF	85	ALA	Peptide
33	DG	12	LYS	Peptide
34	DH	15	SER	Peptide
35	DI	104	VAL	Peptide
36	DJ	83	LYS	Peptide
37	DK	31	GLY	Peptide
37	DK	33	ALA	Peptide
39	DM	33	LYS	Peptide
40	DN	3	ALA	Peptide
44	DR	51	ALA	Peptide
51	E	219	ALA	Peptide
51	E	45	LYS	Peptide
52	F	187	ARG	Peptide
52	F	193	GLY	Peptide
52	F	194	THR	Peptide
53	G	220	VAL	Peptide
53	G	37	GLN	Peptide

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Mol	Chain	Res	Type	Group
53	G	39	GLU	Peptide
53	G	58	LEU	Peptide
54	H	214	LYS	Peptide
54	H	215	ARG	Sidechain
54	H	38	GLY	Peptide
54	H	42	GLY	Peptide
55	I	14	THR	Peptide
55	I	167	GLU	Peptide
55	I	31	SER	Peptide
56	J	116	HIS	Peptide
56	J	119	GLN	Peptide
56	J	23	LYS	Peptide
57	K	130	THR	Peptide
57	K	133	HIS	Peptide
57	K	149	ARG	Peptide
57	K	61	THR	Peptide
57	K	82	ARG	Sidechain
58	L	30	ALA	Peptide
58	L	42	VAL	Peptide
58	L	44	LYS	Peptide
58	L	86	ILE	Peptide
58	L	92	ILE	Peptide
58	L	93	GLN	Peptide
59	M	3	THR	Peptide
60	N	101	ALA	Peptide
60	N	102	GLY	Peptide
60	N	103	LEU	Peptide
60	N	108	ARG	Peptide
60	N	119	SER	Peptide
60	N	125	ASN	Peptide
60	N	128	ALA	Peptide
60	N	21	GLU	Peptide
60	N	28	LEU	Peptide
60	N	33	ARG	Peptide
60	N	67	THR	Peptide
60	N	83	GLU	Peptide
62	P	49	LYS	Peptide
62	P	51	ASP	Peptide
63	Q	124	THR	Peptide
63	Q	125	PRO	Peptide
63	Q	22	LEU	Peptide
63	Q	54	ALA	Peptide

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Mol	Chain	Res	Type	Group
64	R	40	GLU	Peptide
64	R	57	LEU	Peptide
64	R	58	ASP	Peptide
64	R	59	LYS	Peptide
64	R	61	SER	Peptide
80	Rb	161	LYS	Peptide
80	Rb	214	ALA	Peptide
80	Rb	215	GLY	Peptide
80	Rb	317	THR	Peptide
80	Rb	94	VAL	Peptide
80	Rb	95	ALA	Peptide
65	S	84	TYR	Peptide
65	S	86	PRO	Peptide
65	S	96	SER	Peptide
66	T	101	LEU	Peptide
66	T	102	ALA	Peptide
66	T	48	LYS	Peptide
66	T	90	ASN	Peptide
66	T	91	ASP	Peptide
66	T	98	TYR	Peptide
67	U	103	LYS	Peptide
67	U	49	ASP	Peptide
67	U	50	ALA	Peptide
68	V	119	ALA	Peptide
68	V	15	GLN	Peptide
68	V	31	VAL	Peptide
68	V	43	LYS	Peptide
68	V	44	ASN	Peptide
68	V	52	LYS	Peptide
70	X	54	ASP	Peptide
71	Y	130	VAL	Peptide
71	Y	90	ASP	Peptide
72	Z	36	SER	Peptide
73	a	41	ILE	Peptide
73	a	70	LYS	Peptide
74	b	10	ARG	Peptide
74	b	59	TYR	Peptide
74	b	7	SER	Peptide
74	b	73	TYR	Peptide
74	b	74	CYS	Peptide
74	b	85	ARG	Peptide
74	b	88	SER	Peptide

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Mol	Chain	Res	Type	Group
75	c	3	LEU	Peptide
75	c	61	THR	Peptide
75	c	64	CYS	Peptide
75	c	76	GLY	Peptide
58	c0	22	VAL	Peptide
58	c0	23	ALA	Peptide
58	c0	30	ALA	Peptide
58	c0	69	THR	Peptide
59	c1	128	CYS	Peptide
61	c3	138	ASN	Peptide
62	c4	125	SER	Peptide
62	c4	34	SER	Peptide
62	c4	47	LYS	Peptide
62	c4	48	VAL	Peptide
62	c4	90	ARG	Peptide
63	c5	50	THR	Peptide
63	c5	72	LYS	Peptide
63	c5	9	LYS	Mainchain
64	c6	13	LYS	Peptide
64	c6	140	LYS	Peptide
64	c6	40	GLU	Peptide
64	c6	41	PRO	Peptide
64	c6	42	GLU	Peptide
64	c6	63	ILE	Peptide
65	c7	105	GLN	Peptide
66	c8	101	LEU	Peptide
66	c8	57	ARG	Peptide
66	c8	8	GLN	Peptide
66	c8	90	ASN	Peptide
76	d	33	LEU	Peptide
76	d	39	THR	Peptide
68	d0	102	ARG	Peptide
68	d0	34	LEU	Peptide
68	d0	43	LYS	Peptide
68	d0	46	GLU	Peptide
69	d1	41	GLU	Peptide
70	d2	54	ASP	Peptide
71	d3	88	PRO	Peptide
72	d4	29	HIS	Peptide
72	d4	32	ARG	Peptide
72	d4	51	GLU	Peptide
73	d5	103	ARG	Peptide

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Mol	Chain	Res	Type	Group
73	d5	44	GLN	Peptide
74	d6	8	ASN	Peptide
75	d7	58	SER	Peptide
76	d8	61	ARG	Peptide
78	e0	46	ASN	Peptide
78	e0	48	THR	Peptide
78	e0	60	PRO	Peptide
78	e0	62	VAL	Peptide
79	e1	115	THR	Peptide
79	e1	127	GLY	Peptide
79	e1	128	ALA	Peptide
79	e1	138	ARG	Peptide
79	e1	140	TYR	Peptide
79	e1	143	LYS	Peptide
79	e1	145	HIS	Peptide
78	f	51	ASN	Peptide
79	g	101	ALA	Peptide
79	g	98	VAL	Peptide
80	h	166	SER	Peptide
80	h	51	ASP	Peptide
80	h	70	ASP	Peptide
45	i	104	LYS	Peptide
45	i	153	LYS	Peptide
45	i	85	SER	Peptide
45	i	86	ASN	Peptide
5	k	172	ALA	Peptide
5	k	173	GLN	Peptide
5	k	346	THR	Peptide
5	k	349	LYS	Peptide
6	l	13	GLY	Peptide
6	l	15	ALA	Peptide
6	l	24	ALA	Peptide
6	l	291	ASN	Peptide
6	l	60	THR	Peptide
7	m	213	ASP	Peptide
7	m	251	PRO	Peptide
7	m	261	THR	Peptide
7	m	43	LYS	Peptide
9	o	157	ASN	Peptide
9	o	158	LYS	Peptide
9	o	159	GLN	Peptide
9	o	163	LEU	Peptide

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Mol	Chain	Res	Type	Group
9	o	231	ASN	Peptide
10	p	76	ALA	Peptide
11	q	189	GLU	Peptide
11	q	21	LYS	Peptide
12	r	188	GLY	Peptide
12	r	217	PHE	Peptide
12	r	23	ASN	Peptide
13	s	172	LEU	Peptide
13	s	23	VAL	Peptide
13	s	39	GLN	Peptide
48	s0	167	LYS	Peptide
48	s0	189	VAL	Peptide
48	s0	44	GLY	Peptide
48	s0	9	LEU	Peptide
48	s0	94	GLY	Peptide
49	s1	222	LYS	Peptide
50	s2	151	PRO	Peptide
51	s3	128	GLU	Peptide
51	s3	144	ALA	Peptide
51	s3	145	ALA	Peptide
51	s3	180	GLY	Peptide
51	s3	216	PRO	Peptide
51	s3	219	ALA	Peptide
51	s3	220	PRO	Peptide
51	s3	221	SER	Peptide
51	s3	23	GLU	Peptide
51	s3	43	PRO	Peptide
51	s3	65	ARG	Peptide
51	s3	73	VAL	Peptide
51	s3	75	LYS	Peptide
51	s3	79	TYR	Peptide
52	s4	116	ASP	Peptide
52	s4	118	GLU	Peptide
53	s5	100	ASN	Peptide
54	s6	68	LEU	Peptide
54	s6	69	LEU	Peptide
55	s7	10	SER	Peptide
55	s7	12	ALA	Peptide
55	s7	13	PRO	Peptide
55	s7	27	LEU	Peptide
55	s7	30	SER	Peptide
55	s7	31	SER	Peptide

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Mol	Chain	Res	Type	Group
55	s7	62	VAL	Peptide
55	s7	63	PRO	Mainchain
55	s7	73	VAL	Peptide
56	s8	100	ALA	Peptide
56	s8	161	SER	Peptide
57	s9	107	ARG	Sidechain
57	s9	166	GLY	Peptide
57	s9	167	ALA	Peptide
57	s9	87	SER	Peptide
45	sM	45	SER	Peptide
45	sM	84	LYS	Peptide
14	t	135	ALA	Peptide
14	t	4	SER	Peptide
14	t	46	ILE	Peptide
14	t	47	ALA	Peptide
14	t	5	LYS	Peptide
14	t	61	PRO	Peptide
14	t	62	THR	Peptide
14	t	76	THR	Peptide
15	u	7	VAL	Peptide
15	u	8	LYS	Peptide

5.2 Too-close contacts (i)

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

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

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

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
4	CD	250/254 (98%)	248 (99%)	2 (1%)	0	100	100
4	j	250/254 (98%)	250 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	CE	384/387 (99%)	379 (99%)	5 (1%)	0	100	100
5	k	384/387 (99%)	377 (98%)	7 (2%)	0	100	100
6	CF	359/362 (99%)	356 (99%)	3 (1%)	0	100	100
6	l	359/362 (99%)	355 (99%)	4 (1%)	0	100	100
7	CG	290/297 (98%)	286 (99%)	4 (1%)	0	100	100
7	m	294/297 (99%)	287 (98%)	7 (2%)	0	100	100
8	CH	152/176 (86%)	151 (99%)	1 (1%)	0	100	100
8	n	152/176 (86%)	152 (100%)	0	0	100	100
9	CI	220/244 (90%)	218 (99%)	2 (1%)	0	100	100
9	o	220/244 (90%)	215 (98%)	5 (2%)	0	100	100
10	CJ	224/256 (88%)	224 (100%)	0	0	100	100
10	p	231/256 (90%)	231 (100%)	0	0	100	100
11	CK	189/191 (99%)	188 (100%)	1 (0%)	0	100	100
11	q	189/191 (99%)	188 (100%)	1 (0%)	0	100	100
12	CL	207/221 (94%)	204 (99%)	3 (1%)	0	100	100
12	r	207/221 (94%)	202 (98%)	5 (2%)	0	100	100
13	CM	167/174 (96%)	160 (96%)	7 (4%)	0	100	100
13	s	167/174 (96%)	163 (98%)	4 (2%)	0	100	100
14	CN	191/199 (96%)	179 (94%)	12 (6%)	0	100	100
14	t	191/199 (96%)	185 (97%)	6 (3%)	0	100	100
15	CO	134/138 (97%)	132 (98%)	2 (2%)	0	100	100
15	u	134/138 (97%)	132 (98%)	2 (2%)	0	100	100
16	CP	201/204 (98%)	201 (100%)	0	0	100	100
16	v	201/204 (98%)	198 (98%)	3 (2%)	0	100	100
17	CQ	195/199 (98%)	195 (100%)	0	0	100	100
17	w	195/199 (98%)	195 (100%)	0	0	100	100
18	CR	153/184 (83%)	153 (100%)	0	0	100	100
18	x	181/184 (98%)	180 (99%)	1 (1%)	0	100	100
19	CS	183/186 (98%)	183 (100%)	0	0	100	100
19	y	183/186 (98%)	182 (100%)	1 (0%)	0	100	100
20	CT	186/189 (98%)	184 (99%)	2 (1%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
20	z	175/189 (93%)	175 (100%)	0	0	100	100
21	0	170/172 (99%)	168 (99%)	2 (1%)	0	100	100
21	CU	170/172 (99%)	169 (99%)	1 (1%)	0	100	100
22	2	157/160 (98%)	155 (99%)	2 (1%)	0	100	100
22	CV	157/160 (98%)	155 (99%)	2 (1%)	0	100	100
23	5	98/121 (81%)	98 (100%)	0	0	100	100
23	CW	98/121 (81%)	97 (99%)	1 (1%)	0	100	100
24	6	134/137 (98%)	133 (99%)	1 (1%)	0	100	100
24	CX	134/137 (98%)	134 (100%)	0	0	100	100
25	7	63/155 (41%)	63 (100%)	0	0	100	100
25	CY	107/155 (69%)	106 (99%)	1 (1%)	0	100	100
26	8	119/142 (84%)	119 (100%)	0	0	100	100
26	CZ	115/142 (81%)	115 (100%)	0	0	100	100
27	9	124/127 (98%)	124 (100%)	0	0	100	100
27	DA	122/127 (96%)	122 (100%)	0	0	100	100
28	AA	133/136 (98%)	130 (98%)	3 (2%)	0	100	100
28	DB	133/136 (98%)	130 (98%)	3 (2%)	0	100	100
29	AB	146/149 (98%)	140 (96%)	6 (4%)	0	100	100
29	DC	146/149 (98%)	141 (97%)	5 (3%)	0	100	100
30	AC	56/59 (95%)	54 (96%)	2 (4%)	0	100	100
30	DD	56/59 (95%)	54 (96%)	2 (4%)	0	100	100
31	AD	95/105 (90%)	95 (100%)	0	0	100	100
31	DE	95/105 (90%)	94 (99%)	1 (1%)	0	100	100
32	AE	107/113 (95%)	103 (96%)	4 (4%)	0	100	100
32	DF	107/113 (95%)	107 (100%)	0	0	100	100
33	AF	125/130 (96%)	125 (100%)	0	0	100	100
33	DG	125/130 (96%)	125 (100%)	0	0	100	100
34	AG	104/107 (97%)	102 (98%)	2 (2%)	0	100	100
34	DH	104/107 (97%)	103 (99%)	1 (1%)	0	100	100
35	AH	109/121 (90%)	108 (99%)	0	1 (1%)	14	43
35	DI	110/121 (91%)	110 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	AI	117/120 (98%)	117 (100%)	0	0	100	100
36	DJ	117/120 (98%)	117 (100%)	0	0	100	100
37	AJ	94/100 (94%)	93 (99%)	1 (1%)	0	100	100
37	DK	97/100 (97%)	95 (98%)	2 (2%)	0	100	100
38	AK	85/88 (97%)	85 (100%)	0	0	100	100
38	DL	84/88 (96%)	84 (100%)	0	0	100	100
39	AL	75/78 (96%)	75 (100%)	0	0	100	100
39	DM	75/78 (96%)	75 (100%)	0	0	100	100
40	AM	48/51 (94%)	48 (100%)	0	0	100	100
40	DN	48/51 (94%)	48 (100%)	0	0	100	100
41	AN	50/128 (39%)	50 (100%)	0	0	100	100
41	DO	50/128 (39%)	49 (98%)	1 (2%)	0	100	100
42	AO	23/25 (92%)	23 (100%)	0	0	100	100
42	DP	23/25 (92%)	23 (100%)	0	0	100	100
43	AP	103/106 (97%)	102 (99%)	1 (1%)	0	100	100
43	DQ	103/106 (97%)	103 (100%)	0	0	100	100
44	AQ	89/92 (97%)	87 (98%)	2 (2%)	0	100	100
44	DR	89/92 (97%)	87 (98%)	2 (2%)	0	100	100
45	i	136/273 (50%)	135 (99%)	1 (1%)	0	100	100
45	sM	61/273 (22%)	57 (93%)	4 (7%)	0	100	100
46	p0	122/312 (39%)	121 (99%)	1 (1%)	0	100	100
48	B	204/252 (81%)	198 (97%)	6 (3%)	0	100	100
48	s0	204/252 (81%)	196 (96%)	8 (4%)	0	100	100
49	C	212/255 (83%)	207 (98%)	5 (2%)	0	100	100
49	s1	214/255 (84%)	213 (100%)	1 (0%)	0	100	100
50	D	215/254 (85%)	211 (98%)	3 (1%)	1 (0%)	25	56
50	s2	215/254 (85%)	213 (99%)	2 (1%)	0	100	100
51	E	221/240 (92%)	221 (100%)	0	0	100	100
51	s3	221/240 (92%)	214 (97%)	7 (3%)	0	100	100
52	F	258/261 (99%)	257 (100%)	1 (0%)	0	100	100
52	s4	258/261 (99%)	257 (100%)	1 (0%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
53	G	204/225 (91%)	197 (97%)	7 (3%)	0	100	100
53	s5	194/225 (86%)	190 (98%)	4 (2%)	0	100	100
54	H	224/236 (95%)	216 (96%)	8 (4%)	0	100	100
54	s6	216/236 (92%)	210 (97%)	6 (3%)	0	100	100
55	I	182/190 (96%)	180 (99%)	1 (0%)	1 (0%)	25	56
55	s7	184/190 (97%)	180 (98%)	4 (2%)	0	100	100
56	J	184/200 (92%)	178 (97%)	6 (3%)	0	100	100
56	s8	184/200 (92%)	181 (98%)	3 (2%)	0	100	100
57	K	183/197 (93%)	179 (98%)	4 (2%)	0	100	100
57	s9	183/197 (93%)	178 (97%)	5 (3%)	0	100	100
58	L	94/105 (90%)	91 (97%)	3 (3%)	0	100	100
58	c0	92/105 (88%)	88 (96%)	4 (4%)	0	100	100
59	M	140/156 (90%)	140 (100%)	0	0	100	100
59	c1	144/156 (92%)	142 (99%)	2 (1%)	0	100	100
60	N	122/143 (85%)	117 (96%)	5 (4%)	0	100	100
61	O	148/151 (98%)	147 (99%)	1 (1%)	0	100	100
61	c3	148/151 (98%)	145 (98%)	3 (2%)	0	100	100
62	P	125/138 (91%)	123 (98%)	1 (1%)	1 (1%)	16	45
62	c4	123/138 (89%)	122 (99%)	1 (1%)	0	100	100
63	Q	122/142 (86%)	114 (93%)	8 (7%)	0	100	100
63	c5	133/142 (94%)	126 (95%)	7 (5%)	0	100	100
64	R	139/143 (97%)	137 (99%)	2 (1%)	0	100	100
64	c6	140/143 (98%)	140 (100%)	0	0	100	100
65	S	116/136 (85%)	112 (97%)	4 (3%)	0	100	100
65	c7	113/136 (83%)	111 (98%)	2 (2%)	0	100	100
66	T	143/146 (98%)	138 (96%)	5 (4%)	0	100	100
66	c8	143/146 (98%)	137 (96%)	4 (3%)	2 (1%)	9	31
67	U	141/144 (98%)	141 (100%)	0	0	100	100
67	c9	141/144 (98%)	140 (99%)	1 (1%)	0	100	100
68	V	92/121 (76%)	90 (98%)	2 (2%)	0	100	100
68	d0	85/121 (70%)	85 (100%)	0	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
69	W	85/87 (98%)	81 (95%)	4 (5%)	0	100	100
69	d1	85/87 (98%)	82 (96%)	3 (4%)	0	100	100
70	X	127/130 (98%)	127 (100%)	0	0	100	100
70	d2	127/130 (98%)	126 (99%)	1 (1%)	0	100	100
71	Y	142/145 (98%)	132 (93%)	10 (7%)	0	100	100
71	d3	142/145 (98%)	138 (97%)	4 (3%)	0	100	100
72	Z	132/135 (98%)	131 (99%)	1 (1%)	0	100	100
72	d4	132/135 (98%)	125 (95%)	7 (5%)	0	100	100
73	a	68/108 (63%)	64 (94%)	4 (6%)	0	100	100
73	d5	67/108 (62%)	66 (98%)	1 (2%)	0	100	100
74	b	95/119 (80%)	88 (93%)	7 (7%)	0	100	100
74	d6	95/119 (80%)	90 (95%)	5 (5%)	0	100	100
75	c	79/82 (96%)	78 (99%)	1 (1%)	0	100	100
75	d7	79/82 (96%)	79 (100%)	0	0	100	100
76	d	61/67 (91%)	61 (100%)	0	0	100	100
76	d8	61/67 (91%)	61 (100%)	0	0	100	100
77	d9	51/56 (91%)	50 (98%)	1 (2%)	0	100	100
77	e	51/56 (91%)	51 (100%)	0	0	100	100
78	e0	60/63 (95%)	59 (98%)	1 (2%)	0	100	100
78	f	58/63 (92%)	58 (100%)	0	0	100	100
79	e1	49/152 (32%)	48 (98%)	1 (2%)	0	100	100
79	g	69/152 (45%)	65 (94%)	3 (4%)	1 (1%)	9	31
80	Rb	316/319 (99%)	311 (98%)	5 (2%)	0	100	100
80	h	316/319 (99%)	310 (98%)	6 (2%)	0	100	100
All	All	21957/24477 (90%)	21604 (98%)	346 (2%)	7 (0%)	100	100

All (7) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
50	D	107	SER
55	I	111	LYS
62	P	42	VAL
66	c8	14	ILE
66	c8	92	ILE

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Mol	Chain	Res	Type
35	AH	82	ALA
79	g	107	LYS

5.3.2 Protein sidechains (i)

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

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
4	CD	193/196 (98%)	182 (94%)	11 (6%)	17 47
4	j	193/196 (98%)	187 (97%)	6 (3%)	35 70
5	CE	319/323 (99%)	299 (94%)	20 (6%)	15 42
5	k	319/323 (99%)	293 (92%)	26 (8%)	9 29
6	CF	288/289 (100%)	272 (94%)	16 (6%)	17 47
6	l	288/289 (100%)	268 (93%)	20 (7%)	13 37
7	CG	242/245 (99%)	224 (93%)	18 (7%)	11 34
7	m	244/245 (100%)	225 (92%)	19 (8%)	10 31
8	CH	134/153 (88%)	126 (94%)	8 (6%)	16 44
8	n	134/153 (88%)	127 (95%)	7 (5%)	19 50
9	CI	186/205 (91%)	178 (96%)	8 (4%)	25 57
9	o	186/205 (91%)	180 (97%)	6 (3%)	34 69
10	CJ	182/208 (88%)	167 (92%)	15 (8%)	9 29
10	p	187/208 (90%)	178 (95%)	9 (5%)	21 54
11	CK	171/171 (100%)	156 (91%)	15 (9%)	8 26
11	q	171/171 (100%)	164 (96%)	7 (4%)	26 60
12	CL	177/187 (95%)	161 (91%)	16 (9%)	8 25
12	r	177/187 (95%)	169 (96%)	8 (4%)	23 56
13	CM	147/151 (97%)	135 (92%)	12 (8%)	9 29
13	s	147/151 (97%)	131 (89%)	16 (11%)	5 17
14	CN	154/159 (97%)	137 (89%)	17 (11%)	5 16
14	t	154/159 (97%)	142 (92%)	12 (8%)	10 31

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
15	CO	107/109 (98%)	102 (95%)	5 (5%)	22 55
15	u	107/109 (98%)	102 (95%)	5 (5%)	22 55
16	CP	175/176 (99%)	170 (97%)	5 (3%)	37 72
16	v	175/176 (99%)	167 (95%)	8 (5%)	23 55
17	CQ	160/162 (99%)	148 (92%)	12 (8%)	11 33
17	w	160/162 (99%)	153 (96%)	7 (4%)	24 57
18	CR	125/146 (86%)	116 (93%)	9 (7%)	12 35
18	x	140/146 (96%)	132 (94%)	8 (6%)	17 47
19	CS	150/151 (99%)	137 (91%)	13 (9%)	8 27
19	y	150/151 (99%)	140 (93%)	10 (7%)	13 39
20	CT	153/154 (99%)	142 (93%)	11 (7%)	12 35
20	z	144/154 (94%)	133 (92%)	11 (8%)	11 32
21	0	156/156 (100%)	144 (92%)	12 (8%)	10 31
21	CU	156/156 (100%)	143 (92%)	13 (8%)	9 28
22	2	136/137 (99%)	125 (92%)	11 (8%)	9 29
22	CV	136/137 (99%)	127 (93%)	9 (7%)	14 39
23	5	87/107 (81%)	79 (91%)	8 (9%)	7 24
23	CW	87/107 (81%)	77 (88%)	10 (12%)	4 15
24	6	104/105 (99%)	99 (95%)	5 (5%)	21 54
24	CX	104/105 (99%)	97 (93%)	7 (7%)	13 39
25	7	56/129 (43%)	53 (95%)	3 (5%)	18 49
25	CY	57/129 (44%)	57 (100%)	0	100 100
26	8	104/118 (88%)	97 (93%)	7 (7%)	13 39
26	CZ	102/118 (86%)	96 (94%)	6 (6%)	16 45
27	9	109/110 (99%)	100 (92%)	9 (8%)	9 28
27	DA	107/110 (97%)	101 (94%)	6 (6%)	17 47
28	AA	115/116 (99%)	106 (92%)	9 (8%)	10 31
28	DB	115/116 (99%)	103 (90%)	12 (10%)	5 18
29	AB	118/119 (99%)	104 (88%)	14 (12%)	4 13
29	DC	118/119 (99%)	107 (91%)	11 (9%)	7 23
30	AC	46/47 (98%)	45 (98%)	1 (2%)	47 78

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
30	DD	46/47 (98%)	41 (89%)	5 (11%)	5 17
31	AD	81/88 (92%)	76 (94%)	5 (6%)	15 43
31	DE	81/88 (92%)	73 (90%)	8 (10%)	6 21
32	AE	92/97 (95%)	88 (96%)	4 (4%)	25 57
32	DF	92/97 (95%)	88 (96%)	4 (4%)	25 57
33	AF	109/111 (98%)	105 (96%)	4 (4%)	29 64
33	DG	109/111 (98%)	105 (96%)	4 (4%)	29 64
34	AG	89/91 (98%)	87 (98%)	2 (2%)	47 78
34	DH	90/91 (99%)	79 (88%)	11 (12%)	4 12
35	AH	94/103 (91%)	87 (93%)	7 (7%)	11 34
35	DI	95/103 (92%)	92 (97%)	3 (3%)	34 69
36	AI	104/105 (99%)	96 (92%)	8 (8%)	10 31
36	DJ	104/105 (99%)	93 (89%)	11 (11%)	5 18
37	AJ	78/82 (95%)	69 (88%)	9 (12%)	4 15
37	DK	81/82 (99%)	74 (91%)	7 (9%)	8 27
38	AK	70/71 (99%)	69 (99%)	1 (1%)	62 86
38	DL	70/71 (99%)	63 (90%)	7 (10%)	6 20
39	AL	68/69 (99%)	62 (91%)	6 (9%)	8 26
39	DM	68/69 (99%)	62 (91%)	6 (9%)	8 26
40	AM	45/46 (98%)	41 (91%)	4 (9%)	8 26
40	DN	45/46 (98%)	44 (98%)	1 (2%)	47 78
41	AN	47/116 (40%)	44 (94%)	3 (6%)	14 41
41	DO	47/116 (40%)	43 (92%)	4 (8%)	8 27
42	AO	23/23 (100%)	18 (78%)	5 (22%)	1 2
42	DP	23/23 (100%)	20 (87%)	3 (13%)	3 11
43	AP	90/91 (99%)	76 (84%)	14 (16%)	2 7
43	DQ	90/91 (99%)	81 (90%)	9 (10%)	6 20
44	AQ	71/72 (99%)	64 (90%)	7 (10%)	6 21
44	DR	71/72 (99%)	64 (90%)	7 (10%)	6 21
45	i	96/228 (42%)	90 (94%)	6 (6%)	15 42
45	sM	54/228 (24%)	47 (87%)	7 (13%)	3 11

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
46	p0	105/254 (41%)	97 (92%)	8 (8%)	11 32
48	B	160/210 (76%)	148 (92%)	12 (8%)	11 33
48	s0	165/210 (79%)	149 (90%)	16 (10%)	6 22
49	C	191/224 (85%)	164 (86%)	27 (14%)	3 9
49	s1	192/224 (86%)	180 (94%)	12 (6%)	15 42
50	D	176/205 (86%)	161 (92%)	15 (8%)	8 27
50	s2	176/205 (86%)	168 (96%)	8 (4%)	23 56
51	E	182/195 (93%)	168 (92%)	14 (8%)	10 31
51	s3	182/195 (93%)	163 (90%)	19 (10%)	5 18
52	F	221/222 (100%)	205 (93%)	16 (7%)	12 35
52	s4	221/222 (100%)	208 (94%)	13 (6%)	16 45
53	G	173/191 (91%)	157 (91%)	16 (9%)	7 24
53	s5	171/191 (90%)	152 (89%)	19 (11%)	5 16
54	H	188/201 (94%)	172 (92%)	16 (8%)	8 27
54	s6	187/201 (93%)	176 (94%)	11 (6%)	16 45
55	I	165/170 (97%)	145 (88%)	20 (12%)	4 13
55	s7	165/170 (97%)	151 (92%)	14 (8%)	8 27
56	J	150/161 (93%)	139 (93%)	11 (7%)	11 34
56	s8	150/161 (93%)	143 (95%)	7 (5%)	22 55
57	K	158/166 (95%)	137 (87%)	21 (13%)	3 10
57	s9	158/166 (95%)	147 (93%)	11 (7%)	12 36
58	L	77/98 (79%)	71 (92%)	6 (8%)	10 31
58	c0	73/98 (74%)	62 (85%)	11 (15%)	2 7
59	M	129/137 (94%)	124 (96%)	5 (4%)	27 62
59	c1	129/137 (94%)	120 (93%)	9 (7%)	12 36
60	N	88/119 (74%)	77 (88%)	11 (12%)	3 12
61	O	127/128 (99%)	118 (93%)	9 (7%)	12 36
61	c3	127/128 (99%)	117 (92%)	10 (8%)	10 30
62	P	81/105 (77%)	73 (90%)	8 (10%)	6 21
62	c4	96/105 (91%)	92 (96%)	4 (4%)	25 59
63	Q	101/118 (86%)	92 (91%)	9 (9%)	8 26

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
63	c5	103/118 (87%)	93 (90%)	10 (10%)	6 22
64	R	117/119 (98%)	96 (82%)	21 (18%)	1 4
64	c6	118/119 (99%)	110 (93%)	8 (7%)	13 38
65	S	94/124 (76%)	82 (87%)	12 (13%)	3 11
65	c7	92/124 (74%)	83 (90%)	9 (10%)	6 21
66	T	128/129 (99%)	113 (88%)	15 (12%)	4 14
66	c8	128/129 (99%)	113 (88%)	15 (12%)	4 14
67	U	115/116 (99%)	103 (90%)	12 (10%)	5 18
67	c9	115/116 (99%)	105 (91%)	10 (9%)	8 27
68	V	89/114 (78%)	83 (93%)	6 (7%)	13 39
68	d0	84/114 (74%)	76 (90%)	8 (10%)	7 22
69	W	74/74 (100%)	69 (93%)	5 (7%)	13 38
69	d1	74/74 (100%)	65 (88%)	9 (12%)	4 12
70	X	110/111 (99%)	105 (96%)	5 (4%)	23 56
70	d2	110/111 (99%)	106 (96%)	4 (4%)	30 65
71	Y	119/120 (99%)	114 (96%)	5 (4%)	25 59
71	d3	119/120 (99%)	111 (93%)	8 (7%)	13 39
72	Z	112/113 (99%)	105 (94%)	7 (6%)	15 42
72	d4	112/113 (99%)	96 (86%)	16 (14%)	2 8
73	a	61/89 (68%)	56 (92%)	5 (8%)	9 29
73	d5	61/89 (68%)	54 (88%)	7 (12%)	4 15
74	b	83/100 (83%)	72 (87%)	11 (13%)	3 10
74	d6	83/100 (83%)	75 (90%)	8 (10%)	7 22
75	c	70/71 (99%)	62 (89%)	8 (11%)	4 15
75	d7	70/71 (99%)	64 (91%)	6 (9%)	8 27
76	d	56/60 (93%)	48 (86%)	8 (14%)	2 8
76	d8	56/60 (93%)	51 (91%)	5 (9%)	8 26
77	d9	47/49 (96%)	43 (92%)	4 (8%)	8 27
77	e	47/49 (96%)	41 (87%)	6 (13%)	3 11
78	e0	53/54 (98%)	50 (94%)	3 (6%)	17 47
78	f	51/54 (94%)	47 (92%)	4 (8%)	10 31

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
79	g	62/135 (46%)	52 (84%)	10 (16%)	2 6
80	Rb	260/262 (99%)	229 (88%)	31 (12%)	4 13
80	h	259/262 (99%)	233 (90%)	26 (10%)	6 20
All	All	18471/20424 (90%)	17025 (92%)	1446 (8%)	10 31

All (1446) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	j	18	SER
4	j	52	SER
4	j	95	SER
4	j	144	ASN
4	j	147	ARG
4	j	241	ARG
5	k	2	SER
5	k	5	LYS
5	k	39	LYS
5	k	45	SER
5	k	84	VAL
5	k	90	VAL
5	k	100	ARG
5	k	123	TYR
5	k	128	LYS
5	k	139	GLN
5	k	156	SER
5	k	173	GLN
5	k	174	LYS
5	k	187	SER
5	k	196	ARG
5	k	202	THR
5	k	206	ASP
5	k	207	SER
5	k	236	LYS
5	k	274	SER
5	k	291	GLU
5	k	319	ASN
5	k	332	ARG
5	k	346	THR
5	k	355	SER
5	k	380	MET
6	l	3	ARG

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Mol	Chain	Res	Type
6	l	27	SER
6	l	60	THR
6	l	69	ARG
6	l	92	ASN
6	l	93	MET
6	l	99	MET
6	l	120	TYR
6	l	133	SER
6	l	144	LYS
6	l	151	VAL
6	l	178	LEU
6	l	185	LYS
6	l	233	LEU
6	l	261	VAL
6	l	269	SER
6	l	287	THR
6	l	293	SER
6	l	349	THR
6	l	358	THR
7	m	66	SER
7	m	67	SER
7	m	70	THR
7	m	93	THR
7	m	94	ASN
7	m	115	LEU
7	m	133	GLU
7	m	155	THR
7	m	158	ARG
7	m	185	PHE
7	m	205	SER
7	m	234	ASP
7	m	245	GLU
7	m	258	LYS
7	m	263	GLU
7	m	274	GLN
7	m	276	LYS
7	m	278	SER
7	m	279	LYS
8	n	2	SER
8	n	12	SER
8	n	29	LYS
8	n	31	ARG

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Mol	Chain	Res	Type
8	n	104	GLU
8	n	136	GLU
8	n	152	THR
9	o	30	ARG
9	o	90	LYS
9	o	93	ASN
9	o	158	LYS
9	o	159	GLN
9	o	180	SER
10	p	66	SER
10	p	79	GLN
10	p	106	LYS
10	p	108	ARG
10	p	112	GLU
10	p	156	ASP
10	p	192	GLN
10	p	227	ASP
10	p	253	SER
11	q	1	MET
11	q	19	SER
11	q	33	THR
11	q	82	VAL
11	q	92	TYR
11	q	106	LYS
11	q	177	ASP
12	r	30	LYS
12	r	80	SER
12	r	128	ARG
12	r	142	ASP
12	r	163	GLN
12	r	168	SER
12	r	177	ASP
12	r	192	ASP
13	s	7	ASN
13	s	12	LEU
13	s	13	LYS
13	s	19	LEU
13	s	22	SER
13	s	25	GLU
13	s	28	ASP
13	s	30	LEU
13	s	37	LEU

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Mol	Chain	Res	Type
13	s	47	GLN
13	s	61	ARG
13	s	107	ASP
13	s	115	LYS
13	s	161	SER
13	s	166	LYS
13	s	168	ASP
14	t	4	SER
14	t	6	ASN
14	t	67	ARG
14	t	104	ARG
14	t	114	GLN
14	t	120	GLN
14	t	134	GLU
14	t	165	SER
14	t	175	SER
14	t	176	GLU
14	t	180	ARG
14	t	190	LYS
15	u	14	LEU
15	u	84	LYS
15	u	128	ARG
15	u	132	LYS
15	u	137	LYS
16	v	29	GLU
16	v	33	LYS
16	v	65	ARG
16	v	97	SER
16	v	167	THR
16	v	194	GLN
16	v	198	SER
16	v	203	ARG
17	w	22	VAL
17	w	25	LYS
17	w	32	LYS
17	w	91	LYS
17	w	117	ARG
17	w	126	VAL
17	w	180	SER
18	x	18	ARG
18	x	24	VAL
18	x	32	THR

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Mol	Chain	Res	Type
18	x	53	ASP
18	x	127	ARG
18	x	141	SER
18	x	144	SER
18	x	149	VAL
19	y	41	ASP
19	y	63	SER
19	y	64	VAL
19	y	81	VAL
19	y	92	ARG
19	y	135	GLN
19	y	138	LEU
19	y	158	HIS
19	y	176	ARG
19	y	181	SER
20	z	20	ARG
20	z	59	SER
20	z	61	SER
20	z	74	ARG
20	z	97	ARG
20	z	104	ARG
20	z	110	ARG
20	z	127	SER
20	z	151	ARG
20	z	173	ARG
20	z	176	ARG
21	0	50	LYS
21	0	51	VAL
21	0	80	ARG
21	0	81	TYR
21	0	85	SER
21	0	104	GLU
21	0	132	THR
21	0	158	LYS
21	0	162	THR
21	0	169	SER
21	0	171	PHE
21	0	172	TYR
22	2	16	GLN
22	2	18	ASP
22	2	19	PHE
22	2	25	VAL

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Mol	Chain	Res	Type
22	2	69	LYS
22	2	83	ARG
22	2	110	LYS
22	2	115	LYS
22	2	127	GLN
22	2	128	LEU
22	2	139	ARG
23	5	16	THR
23	5	25	ASN
23	5	33	TYR
23	5	36	TYR
23	5	75	TYR
23	5	81	LYS
23	5	97	SER
23	5	107	PHE
24	6	7	GLN
24	6	14	SER
24	6	46	LEU
24	6	84	SER
24	6	128	ARG
25	7	26	SER
25	7	47	ARG
25	7	60	LYS
26	8	25	LYS
26	8	27	ARG
26	8	29	SER
26	8	33	ARG
26	8	108	LEU
26	8	109	LYS
26	8	134	ASP
27	9	3	LYS
27	9	5	SER
27	9	7	ASP
27	9	51	ARG
27	9	59	VAL
27	9	74	TYR
27	9	83	ASP
27	9	115	ARG
27	9	116	LYS
28	AA	55	LYS
28	AA	60	LYS
28	AA	61	LYS

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Mol	Chain	Res	Type
28	AA	92	PHE
28	AA	94	SER
28	AA	111	LYS
28	AA	121	ARG
28	AA	127	ASN
28	AA	135	ARG
29	AB	8	THR
29	AB	16	SER
29	AB	24	LYS
29	AB	27	LYS
29	AB	46	ASP
29	AB	48	TYR
29	AB	58	MET
29	AB	60	TYR
29	AB	86	LYS
29	AB	88	ASP
29	AB	92	LYS
29	AB	95	SER
29	AB	117	ARG
29	AB	120	ASN
30	AC	52	LYS
31	AD	40	LYS
31	AD	52	ARG
31	AD	54	SER
31	AD	63	SER
31	AD	98	SER
32	AE	15	ASN
32	AE	84	ASP
32	AE	97	LEU
32	AE	100	SER
33	AF	15	LYS
33	AF	33	ARG
33	AF	103	LYS
33	AF	111	ARG
34	AG	37	THR
34	AG	78	SER
35	AH	36	LYS
35	AH	47	CYS
35	AH	51	LEU
35	AH	58	ARG
35	AH	67	LYS
35	AH	79	SER

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Mol	Chain	Res	Type
35	AH	98	GLN
36	AI	15	GLU
36	AI	30	GLU
36	AI	36	LEU
36	AI	48	ARG
36	AI	67	ARG
36	AI	84	LYS
36	AI	90	ARG
36	AI	105	ARG
37	AJ	36	ARG
37	AJ	42	SER
37	AJ	43	LEU
37	AJ	45	ARG
37	AJ	51	SER
37	AJ	53	TYR
37	AJ	56	ARG
37	AJ	67	LYS
37	AJ	76	ARG
38	AK	55	ARG
39	AL	37	PRO
39	AL	50	SER
39	AL	57	ASN
39	AL	64	LYS
39	AL	67	GLN
39	AL	72	THR
40	AM	4	GLN
40	AM	21	ARG
40	AM	41	ARG
40	AM	49	MET
41	AN	99	CYS
41	AN	106	ARG
41	AN	117	HIS
42	AO	5	TRP
42	AO	6	ARG
42	AO	17	ARG
42	AO	24	SER
42	AO	25	LYS
43	AP	12	CYS
43	AP	13	LYS
43	AP	15	LYS
43	AP	16	THR
43	AP	28	TYR

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Mol	Chain	Res	Type
43	AP	35	LEU
43	AP	38	GLN
43	AP	63	LYS
43	AP	77	CYS
43	AP	78	LYS
43	AP	93	LEU
43	AP	99	GLN
43	AP	100	LYS
43	AP	104	LEU
44	AQ	3	LYS
44	AQ	18	TYR
44	AQ	38	ASP
44	AQ	45	LYS
44	AQ	60	CYS
44	AQ	72	SER
44	AQ	81	SER
45	i	43	ASP
45	i	83	LYS
45	i	84	LYS
45	i	102	THR
45	i	118	SER
45	i	126	ASP
4	CD	7	ASN
4	CD	8	GLN
4	CD	14	SER
4	CD	70	ARG
4	CD	72	ARG
4	CD	142	ASP
4	CD	149	ARG
4	CD	152	SER
4	CD	192	LYS
4	CD	223	SER
4	CD	242	ARG
5	CE	19	ARG
5	CE	85	VAL
5	CE	95	THR
5	CE	100	ARG
5	CE	104	THR
5	CE	150	ARG
5	CE	192	VAL
5	CE	196	ARG
5	CE	221	THR

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Mol	Chain	Res	Type
5	CE	235	THR
5	CE	270	ARG
5	CE	274	SER
5	CE	297	SER
5	CE	300	ARG
5	CE	301	THR
5	CE	332	ARG
5	CE	341	SER
5	CE	363	SER
5	CE	380	MET
5	CE	385	LYS
6	CF	33	ASP
6	CF	77	VAL
6	CF	120	TYR
6	CF	133	SER
6	CF	138	ARG
6	CF	154	THR
6	CF	200	THR
6	CF	202	ARG
6	CF	208	VAL
6	CF	227	THR
6	CF	248	VAL
6	CF	252	GLU
6	CF	266	THR
6	CF	269	SER
6	CF	283	THR
6	CF	349	THR
7	CG	5	LYS
7	CG	9	SER
7	CG	20	PHE
7	CG	35	ARG
7	CG	92	LEU
7	CG	93	THR
7	CG	95	TRP
7	CG	118	THR
7	CG	131	LEU
7	CG	136	GLU
7	CG	155	THR
7	CG	230	ASP
7	CG	241	THR
7	CG	258	LYS
7	CG	259	LYS

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Mol	Chain	Res	Type
7	CG	264	GLN
7	CG	269	SER
7	CG	278	SER
8	CH	12	SER
8	CH	21	THR
8	CH	46	ARG
8	CH	77	ARG
8	CH	93	VAL
8	CH	97	ASN
8	CH	162	SER
8	CH	166	LYS
9	CI	93	ASN
9	CI	100	ARG
9	CI	142	SER
9	CI	158	LYS
9	CI	181	ILE
9	CI	216	VAL
9	CI	232	ARG
9	CI	233	GLU
10	CJ	29	SER
10	CJ	40	VAL
10	CJ	45	ASN
10	CJ	47	SER
10	CJ	57	ARG
10	CJ	79	GLN
10	CJ	84	ARG
10	CJ	108	ARG
10	CJ	109	LEU
10	CJ	124	ASP
10	CJ	126	SER
10	CJ	134	TYR
10	CJ	185	ARG
10	CJ	195	SER
10	CJ	248	LYS
11	CK	33	THR
11	CK	55	VAL
11	CK	64	HIS
11	CK	70	THR
11	CK	80	THR
11	CK	82	VAL
11	CK	101	VAL
11	CK	107	ASP

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Mol	Chain	Res	Type
11	CK	120	ASP
11	CK	122	LYS
11	CK	126	VAL
11	CK	133	THR
11	CK	138	THR
11	CK	151	VAL
11	CK	162	GLN
12	CL	3	ARG
12	CL	22	TYR
12	CL	29	SER
12	CL	32	ARG
12	CL	36	LEU
12	CL	44	ASP
12	CL	82	ARG
12	CL	98	ARG
12	CL	143	SER
12	CL	163	GLN
12	CL	185	ARG
12	CL	196	PHE
12	CL	200	LEU
12	CL	205	SER
12	CL	208	ASN
12	CL	216	TYR
13	CM	10	ARG
13	CM	11	ASP
13	CM	23	VAL
13	CM	39	GLN
13	CM	44	THR
13	CM	101	ASN
13	CM	107	ASP
13	CM	137	ARG
13	CM	140	ARG
13	CM	143	ARG
13	CM	158	ASP
13	CM	161	SER
14	CN	4	SER
14	CN	6	ASN
14	CN	13	HIS
14	CN	17	HIS
14	CN	36	ARG
14	CN	59	ARG
14	CN	67	ARG

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Mol	Chain	Res	Type
14	CN	68	LYS
14	CN	85	LEU
14	CN	104	ARG
14	CN	114	GLN
14	CN	118	GLU
14	CN	121	SER
14	CN	131	LYS
14	CN	153	ASP
14	CN	175	SER
14	CN	190	LYS
15	CO	53	VAL
15	CO	59	ASN
15	CO	66	THR
15	CO	90	VAL
15	CO	98	SER
16	CP	24	ARG
16	CP	109	ARG
16	CP	178	HIS
16	CP	198	SER
16	CP	204	LYS
17	CQ	22	VAL
17	CQ	34	VAL
17	CQ	67	THR
17	CQ	68	ARG
17	CQ	140	LYS
17	CQ	152	VAL
17	CQ	155	LYS
17	CQ	162	VAL
17	CQ	178	VAL
17	CQ	180	SER
17	CQ	189	ASP
17	CQ	192	LYS
18	CR	3	ARG
18	CR	7	THR
18	CR	9	THR
18	CR	24	VAL
18	CR	32	THR
18	CR	88	VAL
18	CR	119	VAL
18	CR	128	ARG
18	CR	154	GLU
19	CS	22	ASP

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Mol	Chain	Res	Type
19	CS	55	SER
19	CS	63	SER
19	CS	66	ARG
19	CS	74	GLU
19	CS	78	ASN
19	CS	81	VAL
19	CS	95	GLU
19	CS	97	PRO
19	CS	113	LYS
19	CS	170	ARG
19	CS	180	ARG
19	CS	181	SER
20	CT	3	ASN
20	CT	30	SER
20	CT	74	ARG
20	CT	80	LYS
20	CT	139	VAL
20	CT	144	GLN
20	CT	150	GLN
20	CT	163	ARG
20	CT	164	LEU
20	CT	166	ASN
20	CT	182	ASP
21	CU	5	LYS
21	CU	35	VAL
21	CU	45	LEU
21	CU	49	HIS
21	CU	77	VAL
21	CU	87	THR
21	CU	126	VAL
21	CU	135	VAL
21	CU	140	VAL
21	CU	149	LYS
21	CU	162	THR
21	CU	169	SER
21	CU	172	TYR
22	CV	4	SER
22	CV	19	PHE
22	CV	36	VAL
22	CV	52	MET
22	CV	83	ARG
22	CV	87	LYS

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Mol	Chain	Res	Type
22	CV	128	LEU
22	CV	139	ARG
22	CV	159	PHE
23	CW	10	LYS
23	CW	25	ASN
23	CW	32	SER
23	CW	52	ASN
23	CW	75	TYR
23	CW	94	ARG
23	CW	95	PHE
23	CW	97	SER
23	CW	104	ARG
23	CW	107	PHE
24	CX	12	ARG
24	CX	42	SER
24	CX	45	ARG
24	CX	73	VAL
24	CX	74	MET
24	CX	124	ASP
24	CX	135	VAL
26	CZ	29	SER
26	CZ	48	SER
26	CZ	61	LYS
26	CZ	69	SER
26	CZ	97	LYS
26	CZ	109	LYS
27	DA	37	LYS
27	DA	51	ARG
27	DA	60	ARG
27	DA	62	SER
27	DA	74	TYR
27	DA	102	SER
28	DB	33	SER
28	DB	51	LEU
28	DB	61	LYS
28	DB	92	PHE
28	DB	93	LYS
28	DB	97	SER
28	DB	99	GLU
28	DB	100	THR
28	DB	101	PHE
28	DB	112	LYS

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Mol	Chain	Res	Type
28	DB	128	GLN
28	DB	134	LEU
29	DC	16	SER
29	DC	26	ARG
29	DC	48	TYR
29	DC	60	TYR
29	DC	78	LEU
29	DC	86	LYS
29	DC	88	ASP
29	DC	92	LYS
29	DC	93	SER
29	DC	120	ASN
29	DC	139	ARG
30	DD	14	ARG
30	DD	15	LYS
30	DD	26	THR
30	DD	31	SER
30	DD	33	LYS
31	DE	20	SER
31	DE	22	LYS
31	DE	33	SER
31	DE	39	SER
31	DE	61	MET
31	DE	98	SER
31	DE	99	ASP
31	DE	102	THR
32	DF	31	ARG
32	DF	96	VAL
32	DF	100	SER
32	DF	110	GLU
33	DG	33	ARG
33	DG	34	LYS
33	DG	67	SER
33	DG	73	THR
34	DH	4	SER
34	DH	15	SER
34	DH	19	SER
34	DH	28	SER
34	DH	31	LYS
34	DH	37	THR
34	DH	42	GLN
34	DH	58	GLU

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Mol	Chain	Res	Type
34	DH	60	ARG
34	DH	105	SER
34	DH	106	ASN
35	DI	51	LEU
35	DI	68	THR
35	DI	83	ASN
36	DJ	19	SER
36	DJ	21	LEU
36	DJ	36	LEU
36	DJ	59	ASN
36	DJ	63	ARG
36	DJ	68	GLN
36	DJ	69	LEU
36	DJ	84	LYS
36	DJ	90	ARG
36	DJ	101	THR
36	DJ	119	LYS
37	DK	35	ASN
37	DK	42	SER
37	DK	51	SER
37	DK	67	LYS
37	DK	68	ARG
37	DK	71	LYS
37	DK	74	LYS
38	DL	15	SER
38	DL	24	ARG
38	DL	37	CYS
38	DL	64	MET
38	DL	67	LEU
38	DL	74	PHE
38	DL	87	SER
39	DM	11	PHE
39	DM	31	LEU
39	DM	57	ASN
39	DM	61	LYS
39	DM	72	THR
39	DM	76	ASN
40	DN	4	GLN
41	DO	79	GLU
41	DO	94	SER
41	DO	112	LYS
41	DO	122	ARG

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Mol	Chain	Res	Type
42	DP	17	ARG
42	DP	21	ARG
42	DP	24	SER
43	DQ	7	THR
43	DQ	16	THR
43	DQ	17	CYS
43	DQ	78	LYS
43	DQ	83	LEU
43	DQ	93	LEU
43	DQ	100	LYS
43	DQ	104	LEU
43	DQ	106	PHE
44	DR	3	LYS
44	DR	58	SER
44	DR	59	CYS
44	DR	60	CYS
44	DR	62	LYS
44	DR	72	SER
44	DR	81	SER
46	p0	34	SER
46	p0	57	THR
46	p0	61	ARG
46	p0	69	ASP
46	p0	93	LEU
46	p0	97	LYS
46	p0	100	ILE
46	p0	104	ARG
45	sM	41	SER
45	sM	45	SER
45	sM	51	ARG
45	sM	64	LYS
45	sM	68	ARG
45	sM	77	THR
45	sM	83	LYS
48	B	7	PHE
48	B	32	HIS
48	B	62	ARG
48	B	79	ARG
48	B	88	LYS
48	B	96	THR
48	B	101	ARG
48	B	114	SER

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Mol	Chain	Res	Type
48	B	155	PHE
48	B	168	HIS
48	B	196	SER
48	B	200	ASP
49	C	25	THR
49	C	26	ARG
49	C	30	PHE
49	C	32	ILE
49	C	41	ARG
49	C	45	LYS
49	C	48	VAL
49	C	50	LYS
49	C	54	LEU
49	C	59	ASP
49	C	62	LYS
49	C	64	ARG
49	C	78	ASP
49	C	81	PHE
49	C	82	ARG
49	C	94	LYS
49	C	97	LEU
49	C	100	PHE
49	C	169	SER
49	C	174	LYS
49	C	188	LEU
49	C	207	LEU
49	C	216	LYS
49	C	219	LYS
49	C	222	LYS
49	C	223	PHE
49	C	228	LEU
50	D	46	LYS
50	D	49	LYS
50	D	58	LEU
50	D	60	SER
50	D	65	GLU
50	D	79	GLU
50	D	95	ARG
50	D	146	THR
50	D	156	THR
50	D	168	ARG
50	D	199	GLN

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Mol	Chain	Res	Type
50	D	222	TYR
50	D	224	PHE
50	D	226	THR
50	D	240	LEU
51	E	7	LYS
51	E	14	ASP
51	E	45	LYS
51	E	57	ASP
51	E	64	ARG
51	E	65	ARG
51	E	86	LEU
51	E	90	ARG
51	E	179	GLN
51	E	196	ARG
51	E	202	LEU
51	E	212	LYS
51	E	221	SER
51	E	224	ASP
52	F	20	LEU
52	F	22	LYS
52	F	26	CYS
52	F	57	ASN
52	F	76	VAL
52	F	77	ARG
52	F	78	THR
52	F	157	ASN
52	F	171	ASP
52	F	176	ASP
52	F	182	TYR
52	F	206	ASP
52	F	223	ASN
52	F	233	LYS
52	F	240	LYS
52	F	261	LEU
53	G	42	LEU
53	G	44	ASN
53	G	48	PHE
53	G	63	GLN
53	G	80	LYS
53	G	83	ARG
53	G	112	ARG
53	G	118	LEU

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Mol	Chain	Res	Type
53	G	123	VAL
53	G	156	ARG
53	G	157	ARG
53	G	181	GLU
53	G	186	ASN
53	G	198	LEU
53	G	223	SER
53	G	224	ASN
54	H	7	TYR
54	H	12	SER
54	H	21	GLU
54	H	29	ASP
54	H	43	ASP
54	H	58	LYS
54	H	64	LYS
54	H	76	LEU
54	H	119	GLN
54	H	128	THR
54	H	137	ARG
54	H	148	SER
54	H	174	LYS
54	H	177	ARG
54	H	196	ARG
54	H	199	GLN
55	I	24	PHE
55	I	39	ARG
55	I	47	ARG
55	I	50	ASP
55	I	70	PHE
55	I	72	LYS
55	I	79	ARG
55	I	81	LEU
55	I	85	PHE
55	I	101	LYS
55	I	103	SER
55	I	104	ARG
55	I	122	HIS
55	I	123	ASP
55	I	131	PHE
55	I	141	ARG
55	I	148	LYS
55	I	156	SER

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Mol	Chain	Res	Type
55	I	160	GLN
55	I	187	SER
56	J	4	SER
56	J	11	ARG
56	J	22	ARG
56	J	25	ARG
56	J	75	LYS
56	J	117	TYR
56	J	119	GLN
56	J	138	ASN
56	J	151	LYS
56	J	158	SER
56	J	161	SER
57	K	3	ARG
57	K	10	LYS
57	K	22	SER
57	K	37	LYS
57	K	46	SER
57	K	54	ARG
57	K	62	ARG
57	K	68	LYS
57	K	78	ARG
57	K	82	ARG
57	K	86	LEU
57	K	89	ASP
57	K	100	LYS
57	K	107	ARG
57	K	134	ILE
57	K	149	ARG
57	K	155	HIS
57	K	157	ASP
57	K	179	ARG
57	K	180	LYS
57	K	182	GLU
58	L	1	MET
58	L	32	HIS
58	L	40	LEU
58	L	47	GLN
58	L	55	VAL
58	L	76	LEU
59	M	26	LYS
59	M	67	ARG

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Mol	Chain	Res	Type
59	M	87	ARG
59	M	129	ARG
59	M	136	ARG
60	N	29	LYS
60	N	43	ARG
60	N	45	LEU
60	N	46	ARG
60	N	50	LYS
60	N	58	LEU
60	N	81	ASP
60	N	103	LEU
60	N	126	TRP
60	N	135	MET
60	N	136	ILE
61	O	3	ARG
61	O	27	LYS
61	O	28	LEU
61	O	42	ARG
61	O	106	ARG
61	O	117	LEU
61	O	139	TRP
61	O	140	LYS
61	O	141	TYR
62	P	16	VAL
62	P	20	TYR
62	P	41	ARG
62	P	80	HIS
62	P	84	ARG
62	P	102	LEU
62	P	103	ARG
62	P	137	LEU
63	Q	12	PHE
63	Q	13	LYS
63	Q	26	LEU
63	Q	28	MET
63	Q	32	ASP
63	Q	44	ARG
63	Q	69	GLU
63	Q	89	MET
63	Q	102	PHE
64	R	8	GLN
64	R	10	PHE

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Mol	Chain	Res	Type
64	R	12	LYS
64	R	13	LYS
64	R	45	ARG
64	R	52	LEU
64	R	57	LEU
64	R	59	LYS
64	R	61	SER
64	R	66	ARG
64	R	76	SER
64	R	83	GLN
64	R	102	LYS
64	R	103	ASN
64	R	113	ASP
64	R	114	ARG
64	R	118	ILE
64	R	128	LYS
64	R	136	SER
64	R	139	GLN
64	R	143	ARG
65	S	11	ARG
65	S	14	LYS
65	S	26	LEU
65	S	27	ASP
65	S	40	THR
65	S	60	ARG
65	S	67	ARG
65	S	78	ARG
65	S	80	ARG
65	S	84	TYR
65	S	108	ASP
65	S	119	LEU
66	T	15	LEU
66	T	17	LEU
66	T	49	LYS
66	T	61	LEU
66	T	68	ARG
66	T	72	ILE
66	T	73	MET
66	T	80	LYS
66	T	88	ARG
66	T	104	ASN
66	T	108	LYS

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Mol	Chain	Res	Type
66	T	110	ARG
66	T	123	ARG
66	T	132	ARG
66	T	136	GLN
67	U	7	ARG
67	U	18	TYR
67	U	33	TYR
67	U	41	SER
67	U	54	PHE
67	U	63	ARG
67	U	99	SER
67	U	125	SER
67	U	127	ASN
67	U	130	ARG
67	U	132	LEU
67	U	134	ARG
68	V	37	VAL
68	V	62	VAL
68	V	64	LYS
68	V	93	LEU
68	V	109	GLU
68	V	118	VAL
69	W	16	LYS
69	W	49	GLU
69	W	61	SER
69	W	68	SER
69	W	78	LEU
70	X	26	LEU
70	X	30	SER
70	X	57	ARG
70	X	65	LEU
70	X	93	LEU
71	Y	66	SER
71	Y	73	ARG
71	Y	90	ASP
71	Y	98	GLU
71	Y	107	PHE
72	Z	32	ARG
72	Z	78	SER
72	Z	93	ARG
72	Z	123	LYS
72	Z	124	ARG

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Mol	Chain	Res	Type
72	Z	127	LYS
72	Z	132	ARG
73	a	47	TYR
73	a	48	ASP
73	a	69	LEU
73	a	71	ILE
73	a	93	SER
74	b	3	LYS
74	b	8	ASN
74	b	29	SER
74	b	39	MET
74	b	54	SER
74	b	61	GLU
74	b	64	LEU
74	b	75	VAL
74	b	83	ILE
74	b	85	ARG
74	b	89	ARG
75	c	7	LEU
75	c	33	LEU
75	c	37	CYS
75	c	49	HIS
75	c	61	THR
75	c	73	LEU
75	c	79	PHE
75	c	81	ARG
76	d	5	THR
76	d	40	ILE
76	d	44	VAL
76	d	52	ASP
76	d	56	LEU
76	d	58	GLU
76	d	59	SER
76	d	67	ARG
77	e	8	PHE
77	e	9	SER
77	e	12	ARG
77	e	14	TYR
77	e	32	ARG
77	e	46	LYS
78	f	16	SER
78	f	48	THR

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Mol	Chain	Res	Type
78	f	49	LEU
78	f	53	LYS
79	g	90	LYS
79	g	93	HIS
79	g	94	LYS
79	g	105	TYR
79	g	107	LYS
79	g	121	CYS
79	g	132	LEU
79	g	137	ASP
79	g	140	TYR
79	g	149	LYS
80	h	4	ASN
80	h	16	HIS
80	h	22	SER
80	h	37	SER
80	h	38	ARG
80	h	39	ASP
80	h	48	THR
80	h	60	SER
80	h	70	ASP
80	h	99	THR
80	h	112	SER
80	h	116	ASP
80	h	132	LYS
80	h	147	HIS
80	h	149	ASP
80	h	164	ASP
80	h	181	TRP
80	h	182	ASN
80	h	231	MET
80	h	269	TYR
80	h	272	ASP
80	h	275	ARG
80	h	287	PRO
80	h	300	THR
80	h	313	TRP
80	h	317	THR
80	Rb	9	LEU
80	Rb	62	LYS
80	Rb	70	ASP
80	Rb	76	ASP

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Mol	Chain	Res	Type
80	Rb	102	ARG
80	Rb	114	ASP
80	Rb	115	ILE
80	Rb	129	LYS
80	Rb	140	CYS
80	Rb	141	LEU
80	Rb	149	ASP
80	Rb	161	LYS
80	Rb	165	ASP
80	Rb	176	LYS
80	Rb	191	ASP
80	Rb	192	PHE
80	Rb	196	ASN
80	Rb	197	SER
80	Rb	200	ASN
80	Rb	213	SER
80	Rb	222	LEU
80	Rb	224	ASN
80	Rb	231	MET
80	Rb	232	TYR
80	Rb	234	LEU
80	Rb	243	LEU
80	Rb	245	PHE
80	Rb	297	ASP
80	Rb	302	PHE
80	Rb	311	ARG
80	Rb	317	THR
48	s0	8	ASP
48	s0	17	LEU
48	s0	43	ASP
48	s0	62	ARG
48	s0	77	SER
48	s0	92	HIS
48	s0	101	ARG
48	s0	109	ASN
48	s0	157	ASP
48	s0	165	ARG
48	s0	168	HIS
48	s0	169	SER
48	s0	177	LEU
48	s0	179	ARG
48	s0	185	ARG

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Mol	Chain	Res	Type
48	s0	196	SER
49	s1	37	THR
49	s1	38	PHE
49	s1	41	ARG
49	s1	81	PHE
49	s1	144	ARG
49	s1	159	SER
49	s1	169	SER
49	s1	173	THR
49	s1	185	THR
49	s1	194	ASN
49	s1	205	PHE
49	s1	223	PHE
50	s2	89	GLN
50	s2	107	SER
50	s2	116	LYS
50	s2	126	ARG
50	s2	224	PHE
50	s2	238	SER
50	s2	241	ASP
50	s2	245	ASP
51	s3	4	LEU
51	s3	10	LYS
51	s3	24	PHE
51	s3	28	GLU
51	s3	57	ASP
51	s3	74	GLN
51	s3	79	TYR
51	s3	90	ARG
51	s3	120	TYR
51	s3	125	TYR
51	s3	142	LEU
51	s3	151	LYS
51	s3	160	SER
51	s3	162	GLN
51	s3	165	ASN
51	s3	169	ASP
51	s3	177	MET
51	s3	189	MET
51	s3	196	ARG
52	s4	20	LEU
52	s4	59	ARG

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Mol	Chain	Res	Type
52	s4	62	LYS
52	s4	97	GLU
52	s4	106	LYS
52	s4	113	ARG
52	s4	174	LYS
52	s4	182	TYR
52	s4	197	HIS
52	s4	215	ASP
52	s4	242	LYS
52	s4	247	SER
52	s4	255	ARG
53	s5	37	GLN
53	s5	41	LYS
53	s5	60	ASP
53	s5	63	GLN
53	s5	66	GLN
53	s5	69	PHE
53	s5	79	ASN
53	s5	83	ARG
53	s5	92	ARG
53	s5	115	LYS
53	s5	144	GLU
53	s5	148	ARG
53	s5	163	SER
53	s5	174	LEU
53	s5	200	ASN
53	s5	207	THR
53	s5	217	LEU
53	s5	219	ARG
53	s5	222	LYS
54	s6	18	ILE
54	s6	57	ASP
54	s6	65	GLN
54	s6	68	LEU
54	s6	163	THR
54	s6	167	LYS
54	s6	184	LEU
54	s6	191	ARG
54	s6	196	ARG
54	s6	201	GLN
54	s6	202	ARG
55	s7	7	LYS

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Mol	Chain	Res	Type
55	s7	16	LEU
55	s7	26	GLU
55	s7	45	SER
55	s7	50	ASP
55	s7	55	LYS
55	s7	58	LEU
55	s7	63	PRO
55	s7	84	LYS
55	s7	85	PHE
55	s7	87	ASP
55	s7	95	GLU
55	s7	103	SER
55	s7	175	LYS
56	s8	6	ASP
56	s8	49	ARG
56	s8	64	ASN
56	s8	87	ASN
56	s8	155	SER
56	s8	164	ARG
56	s8	194	ARG
57	s9	13	SER
57	s9	21	SER
57	s9	66	ASP
57	s9	69	ARG
57	s9	78	ARG
57	s9	89	ASP
57	s9	111	THR
57	s9	118	LEU
57	s9	139	GLN
57	s9	149	ARG
57	s9	184	SER
58	c0	3	MET
58	c0	5	LYS
58	c0	8	ARG
58	c0	16	PHE
58	c0	27	PHE
58	c0	28	ASN
58	c0	38	LYS
58	c0	54	TYR
58	c0	60	SER
58	c0	67	THR
58	c0	79	TYR

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Mol	Chain	Res	Type
59	c1	6	THR
59	c1	21	ASN
59	c1	31	THR
59	c1	33	ARG
59	c1	60	PHE
59	c1	67	ARG
59	c1	79	LYS
59	c1	115	PHE
59	c1	129	ARG
61	c3	3	ARG
61	c3	6	SER
61	c3	12	SER
61	c3	36	GLN
61	c3	94	LYS
61	c3	97	SER
61	c3	99	ARG
61	c3	114	ARG
61	c3	138	ASN
61	c3	141	TYR
62	c4	20	TYR
62	c4	58	TYR
62	c4	65	GLN
62	c4	99	GLN
63	c5	10	ARG
63	c5	13	LYS
63	c5	29	SER
63	c5	36	LEU
63	c5	44	ARG
63	c5	52	LYS
63	c5	69	GLU
63	c5	81	ARG
63	c5	97	TYR
63	c5	126	VAL
64	c6	14	LYS
64	c6	15	SER
64	c6	45	ARG
64	c6	53	LEU
64	c6	57	LEU
64	c6	83	GLN
64	c6	98	ASP
64	c6	136	SER
65	c7	33	ARG

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Mol	Chain	Res	Type
65	c7	36	ASP
65	c7	45	ARG
65	c7	76	GLU
65	c7	83	GLN
65	c7	89	SER
65	c7	105	GLN
65	c7	107	SER
65	c7	108	ASP
66	c8	15	LEU
66	c8	21	ASN
66	c8	42	TYR
66	c8	57	ARG
66	c8	61	LEU
66	c8	62	THR
66	c8	63	GLN
66	c8	80	LYS
66	c8	85	PHE
66	c8	92	ILE
66	c8	108	LYS
66	c8	110	ARG
66	c8	111	ASP
66	c8	116	LEU
66	c8	145	ARG
67	c9	18	TYR
67	c9	25	GLN
67	c9	33	TYR
67	c9	43	ASN
67	c9	48	GLN
67	c9	54	PHE
67	c9	66	TYR
67	c9	117	SER
67	c9	123	ARG
67	c9	126	GLU
68	d0	34	LEU
68	d0	39	SER
68	d0	50	LEU
68	d0	53	LYS
68	d0	71	PRO
68	d0	77	LYS
68	d0	89	ARG
68	d0	102	ARG
69	d1	4	ASP

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Mol	Chain	Res	Type
69	d1	5	LYS
69	d1	9	VAL
69	d1	12	TYR
69	d1	17	CYS
69	d1	22	ARG
69	d1	44	ARG
69	d1	56	SER
69	d1	85	TYR
70	d2	26	LEU
70	d2	82	LYS
70	d2	113	HIS
70	d2	124	LYS
71	d3	28	ASN
71	d3	40	SER
71	d3	73	ARG
71	d3	93	LEU
71	d3	100	ASP
71	d3	107	PHE
71	d3	144	ARG
71	d3	145	SER
72	d4	8	ARG
72	d4	44	LEU
72	d4	58	PHE
72	d4	74	LEU
72	d4	77	ASN
72	d4	78	SER
72	d4	84	LYS
72	d4	96	LEU
72	d4	98	GLU
72	d4	99	LYS
72	d4	104	SER
72	d4	127	LYS
72	d4	128	LYS
72	d4	132	ARG
72	d4	133	ASN
72	d4	135	ASP
73	d5	58	ARG
73	d5	61	SER
73	d5	69	LEU
73	d5	85	LYS
73	d5	93	SER
73	d5	97	LYS

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Mol	Chain	Res	Type
73	d5	105	THR
74	d6	10	ARG
74	d6	28	LYS
74	d6	39	MET
74	d6	57	SER
74	d6	62	TYR
74	d6	76	SER
74	d6	82	ARG
74	d6	89	ARG
75	d7	2	VAL
75	d7	17	ARG
75	d7	20	LYS
75	d7	36	LYS
75	d7	56	CYS
75	d7	81	ARG
76	d8	16	LEU
76	d8	43	ASN
76	d8	56	LEU
76	d8	57	MET
76	d8	66	LEU
77	d9	19	ARG
77	d9	23	VAL
77	d9	26	SER
77	d9	40	ARG
78	e0	7	SER
78	e0	20	LYS
78	e0	63	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (166) such sidechains are listed below:

Mol	Chain	Res	Type
5	k	163	HIS
5	k	173	GLN
7	m	32	GLN
8	n	167	ASN
10	p	38	GLN
10	p	221	ASN
11	q	59	ASN
11	q	157	ASN
12	r	144	ASN
13	s	150	ASN
14	t	112	ASN

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Mol	Chain	Res	Type
16	v	117	ASN
16	v	181	ASN
17	w	42	ASN
18	x	55	GLN
19	y	145	ASN
20	z	7	GLN
21	0	46	GLN
22	2	131	GLN
23	5	49	ASN
23	5	87	ASN
24	6	81	GLN
25	7	59	HIS
26	8	80	ASN
26	8	111	ASN
27	9	26	GLN
28	AA	57	HIS
29	AB	38	GLN
32	AE	15	ASN
32	AE	105	GLN
34	AG	106	ASN
37	AJ	12	ASN
38	AK	13	ASN
38	AK	28	HIS
38	AK	57	HIS
40	AM	19	GLN
40	AM	25	GLN
41	AN	109	ASN
44	AQ	33	GLN
45	i	86	ASN
4	CD	47	GLN
6	CF	296	GLN
7	CG	264	GLN
7	CG	274	GLN
8	CH	97	ASN
8	CH	138	GLN
10	CJ	45	ASN
10	CJ	95	ASN
11	CK	157	ASN
13	CM	150	ASN
15	CO	59	ASN
16	CP	11	GLN
16	CP	57	GLN

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Mol	Chain	Res	Type
16	CP	117	ASN
17	CQ	50	ASN
18	CR	101	ASN
18	CR	137	ASN
19	CS	136	ASN
20	CT	3	ASN
20	CT	39	ASN
20	CT	166	ASN
21	CU	46	GLN
23	CW	49	ASN
23	CW	101	ASN
27	DA	120	GLN
29	DC	65	GLN
29	DC	120	ASN
31	DE	71	GLN
35	DI	33	GLN
36	DJ	68	GLN
39	DM	76	ASN
43	DQ	20	HIS
45	sM	29	ASN
48	B	46	HIS
48	B	49	ASN
48	B	140	ASN
49	C	92	GLN
49	C	95	ASN
49	C	146	GLN
49	C	149	GLN
49	C	199	ASN
51	E	22	ASN
51	E	74	GLN
52	F	36	HIS
52	F	57	ASN
52	F	223	ASN
52	F	224	ASN
53	G	35	GLN
53	G	44	ASN
53	G	95	ASN
53	G	169	ASN
54	H	59	GLN
55	I	11	GLN
55	I	174	ASN
56	J	52	ASN

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Mol	Chain	Res	Type
56	J	88	ASN
56	J	94	ASN
56	J	138	ASN
57	K	110	GLN
58	L	58	GLN
59	M	21	ASN
59	M	92	HIS
59	M	127	GLN
64	R	74	HIS
64	R	77	GLN
64	R	83	GLN
65	S	31	ASN
65	S	48	ASN
65	S	62	GLN
65	S	74	GLN
66	T	44	ASN
66	T	89	GLN
66	T	137	HIS
69	W	21	ASN
69	W	35	ASN
70	X	15	ASN
72	Z	15	ASN
72	Z	29	HIS
72	Z	63	GLN
74	b	25	ASN
74	b	69	ASN
75	c	49	HIS
76	d	43	ASN
76	d	51	ASN
80	h	4	ASN
80	h	69	GLN
80	h	153	GLN
80	Rb	69	GLN
80	Rb	174	ASN
80	Rb	195	HIS
80	Rb	198	ASN
80	Rb	224	ASN
48	s0	33	GLN
48	s0	109	ASN
48	s0	163	ASN
49	s1	74	GLN
49	s1	148	ASN

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Mol	Chain	Res	Type
49	s1	149	GLN
49	s1	183	GLN
49	s1	208	GLN
50	s2	189	GLN
53	s5	100	ASN
54	s6	140	ASN
55	s7	42	GLN
55	s7	110	GLN
56	s8	87	ASN
57	s9	123	HIS
58	c0	9	ASN
59	c1	106	ASN
59	c1	110	HIS
61	c3	105	ASN
65	c7	62	GLN
66	c8	21	ASN
66	c8	63	GLN
66	c8	74	GLN
66	c8	89	GLN
66	c8	104	ASN
67	c9	43	ASN
67	c9	77	ASN
67	c9	138	GLN
69	d1	3	ASN
69	d1	70	ASN
70	d2	39	GLN
71	d3	21	ASN
71	d3	75	GLN
78	e0	63	GLN

5.3.3 RNA

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3145/3149 (99%)	571 (18%)	43 (1%)
1	AR	3125/3149 (99%)	557 (17%)	45 (1%)
2	3	120/121 (99%)	12 (10%)	0
2	AS	120/121 (99%)	18 (15%)	1 (0%)
3	4	157/158 (99%)	32 (20%)	2 (1%)
3	AT	157/158 (99%)	30 (19%)	1 (0%)
47	A	1735/1800 (96%)	442 (25%)	38 (2%)
47	sR	1780/1800 (98%)	429 (24%)	0

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Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
All	All	10339/10456 (98%)	2091 (20%)	130 (1%)

All (2091) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1	26	A
1	1	40	A
1	1	49	A
1	1	59	G
1	1	60	A
1	1	65	A
1	1	66	A
1	1	72	C
1	1	73	C
1	1	76	G
1	1	92	G
1	1	99	A
1	1	109	A
1	1	110	G
1	1	113	C
1	1	116	A
1	1	117	U
1	1	121	A
1	1	122	A
1	1	133	U
1	1	135	C
1	1	136	G
1	1	147	U
1	1	156	G
1	1	157	A
1	1	161	G
1	1	165	A
1	1	166	C
1	1	170	G
1	1	187	A
1	1	190	U
1	1	191	U
1	1	192	C
1	1	201	A
1	1	210	U
1	1	213	A
1	1	218	G

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Mol	Chain	Res	Type
1	1	219	A
1	1	220	G
1	1	237	G
1	1	240	U
1	1	241	G
1	1	243	G
1	1	246	U
1	1	250	U
1	1	251	G
1	1	252	U
1	1	269	G
1	1	282	G
1	1	283	G
1	1	286	U
1	1	295	A
1	1	298	U
1	1	299	G
1	1	305	U
1	1	323	A
1	1	329	U
1	1	339	C
1	1	349	A
1	1	350	C
1	1	351	A
1	1	375	A
1	1	376	G
1	1	398	A
1	1	399	A
1	1	401	U
1	1	402	A
1	1	403	C
1	1	404	G
1	1	421	G
1	1	422	A
1	1	438	A
1	1	440	A
1	1	495	G
1	1	520	U
1	1	521	A
1	1	535	G
1	1	544	C
1	1	545	U

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Mol	Chain	Res	Type
1	1	546	C
1	1	547	G
1	1	548	G
1	1	551	A
1	1	552	G
1	1	553	U
1	1	555	U
1	1	557	A
1	1	559	A
1	1	578	A
1	1	579	G
1	1	591	G
1	1	592	A
1	1	600	G
1	1	604	G
1	1	609	G
1	1	611	A
1	1	620	U
1	1	621	A
1	1	636	C
1	1	638	C
1	1	649	A
1	1	660	A
1	1	661	G
1	1	677	A
1	1	681	U
1	1	705	A
1	1	712	G
1	1	715	A
1	1	716	A
1	1	719	U
1	1	763	G
1	1	764	U
1	1	766	U
1	1	767	U
1	1	776	U
1	1	777	U
1	1	780	A
1	1	781	G
1	1	785	G
1	1	806	A
1	1	817	A

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Mol	Chain	Res	Type
1	1	830	A
1	1	837	A
1	1	842	G
1	1	849	C
1	1	861	C
1	1	874	U
1	1	879	U
1	1	890	C
1	1	896	A
1	1	907	G
1	1	908	G
1	1	914	A
1	1	916	G
1	1	917	A
1	1	921	A
1	1	923	C
1	1	924	G
1	1	937	G
1	1	944	C
1	1	953	G
1	1	959	C
1	1	960	U
1	1	963	G
1	1	974	G
1	1	979	U
1	1	980	A
1	1	981	U
1	1	982	C
1	1	994	G
1	1	1000	C
1	1	1001	G
1	1	1002	A
1	1	1006	A
1	1	1010	G
1	1	1014	U
1	1	1015	U
1	1	1017	C
1	1	1018	G
1	1	1020	G
1	1	1021	G
1	1	1024	G
1	1	1025	A

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Mol	Chain	Res	Type
1	1	1029	G
1	1	1032	C
1	1	1036	A
1	1	1041	U
1	1	1047	A
1	1	1049	C
1	1	1057	A
1	1	1063	G
1	1	1064	A
1	1	1065	A
1	1	1071	U
1	1	1072	G
1	1	1081	U
1	1	1082	U
1	1	1083	G
1	1	1093	A
1	1	1094	U
1	1	1095	U
1	1	1097	G
1	1	1098	A
1	1	1103	A
1	1	1104	G
1	1	1117	G
1	1	1131	G
1	1	1153	A
1	1	1159	A
1	1	1168	U
1	1	1180	A
1	1	1181	U
1	1	1182	A
1	1	1186	G
1	1	1190	A
1	1	1191	U
1	1	1192	C
1	1	1197	A
1	1	1201	C
1	1	1206	G
1	1	1209	G
1	1	1217	A
1	1	1221	A
1	1	1222	G
1	1	1227	C

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Mol	Chain	Res	Type
1	1	1232	C
1	1	1236	G
1	1	1237	G
1	1	1239	C
1	1	1241	U
1	1	1243	G
1	1	1245	A
1	1	1246	G
1	1	1248	C
1	1	1249	G
1	1	1253	U
1	1	1254	C
1	1	1258	U
1	1	1262	G
1	1	1263	A
1	1	1264	G
1	1	1265	U
1	1	1267	U
1	1	1269	U
1	1	1270	A
1	1	1271	A
1	1	1272	C
1	1	1274	A
1	1	1278	A
1	1	1279	C
1	1	1285	G
1	1	1286	A
1	1	1287	A
1	1	1292	C
1	1	1307	G
1	1	1308	A
1	1	1309	U
1	1	1313	G
1	1	1330	A
1	1	1348	U
1	1	1349	G
1	1	1350	A
1	1	1351	U
1	1	1352	A
1	1	1353	U
1	1	1355	A
1	1	1356	U

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Mol	Chain	Res	Type
1	1	1357	G
1	1	1386	A
1	1	1399	A
1	1	1400	G
1	1	1417	G
1	1	1419	A
1	1	1425	U
1	1	1429	G
1	1	1434	G
1	1	1437	C
1	1	1446	A
1	1	1450	G
1	1	1475	A
1	1	1477	A
1	1	1481	A
1	1	1482	A
1	1	1488	G
1	1	1508	C
1	1	1527	C
1	1	1536	G
1	1	1555	U
1	1	1556	C
1	1	1560	G
1	1	1561	G
1	1	1562	C
1	1	1563	C
1	1	1567	U
1	1	1568	U
1	1	1569	U
1	1	1570	U
1	1	1572	U
1	1	1575	A
1	1	1578	C
1	1	1579	C
1	1	1580	A
1	1	1581	C
1	1	1582	C
1	1	1583	A
1	1	1587	A
1	1	1589	A
1	1	1620	U
1	1	1629	U

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Mol	Chain	Res	Type
1	1	1639	C
1	1	1643	A
1	1	1657	C
1	1	1683	A
1	1	1714	A
1	1	1715	A
1	1	1716	U
1	1	1717	U
1	1	1724	U
1	1	1729	A
1	1	1736	G
1	1	1742	U
1	1	1745	C
1	1	1750	A
1	1	1751	G
1	1	1760	A
1	1	1761	C
1	1	1762	C
1	1	1763	U
1	1	1765	U
1	1	1766	G
1	1	1767	C
1	1	1769	G
1	1	1770	G
1	1	1775	G
1	1	1779	C
1	1	1780	G
1	1	1797	A
1	1	1809	A
1	1	1810	A
1	1	1814	A
1	1	1815	U
1	1	1816	A
1	1	1819	U
1	1	1820	U
1	1	1821	U
1	1	1839	A
1	1	1842	A
1	1	1846	C
1	1	1847	A
1	1	1866	C
1	1	1878	G

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Mol	Chain	Res	Type
1	1	1879	A
1	1	1880	U
1	1	1883	A
1	1	1906	G
1	1	1948	G
1	1	1951	C
1	1	1952	G
1	1	1953	G
1	1	2094	C
1	1	2097	U
1	1	2101	C
1	1	2102	U
1	1	2111	G
1	1	2113	A
1	1	2120	A
1	1	2121	G
1	1	2122	G
1	1	2131	A
1	1	2140	U
1	1	2158	A
1	1	2169	G
1	1	2170	U
1	1	2188	A
1	1	2205	U
1	1	2208	A
1	1	2210	G
1	1	2223	A
1	1	2228	A
1	1	2244	A
1	1	2249	G
1	1	2250	G
1	1	2255	A
1	1	2256	A
1	1	2272	G
1	1	2273	G
1	1	2279	A
1	1	2281	A
1	1	2282	U
1	1	2307	G
1	1	2310	U
1	1	2313	A
1	1	2314	U

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Mol	Chain	Res	Type
1	1	2315	G
1	1	2334	U
1	1	2336	U
1	1	2361	A
1	1	2373	A
1	1	2374	C
1	1	2375	G
1	1	2385	G
1	1	2388	U
1	1	2393	G
1	1	2397	A
1	1	2401	A
1	1	2402	A
1	1	2403	G
1	1	2404	A
1	1	2411	U
1	1	2414	G
1	1	2418	G
1	1	2419	A
1	1	2435	G
1	1	2443	A
1	1	2444	C
1	1	2445	A
1	1	2502	A
1	1	2503	G
1	1	2514	U
1	1	2515	A
1	1	2522	G
1	1	2523	A
1	1	2532	U
1	1	2533	G
1	1	2534	G
1	1	2537	U
1	1	2538	U
1	1	2539	C
1	1	2540	A
1	1	2541	U
1	1	2542	U
1	1	2543	U
1	1	2544	U
1	1	2547	A
1	1	2549	G

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Mol	Chain	Res	Type
1	1	2552	C
1	1	2554	A
1	1	2555	G
1	1	2561	A
1	1	2569	A
1	1	2570	U
1	1	2571	U
1	1	2572	C
1	1	2573	G
1	1	2585	G
1	1	2593	A
1	1	2594	C
1	1	2606	G
1	1	2607	G
1	1	2614	G
1	1	2637	A
1	1	2652	U
1	1	2656	A
1	1	2674	A
1	1	2677	G
1	1	2689	A
1	1	2691	A
1	1	2694	A
1	1	2696	A
1	1	2714	G
1	1	2719	U
1	1	2728	G
1	1	2729	U
1	1	2752	U
1	1	2753	G
1	1	2755	C
1	1	2762	A
1	1	2772	C
1	1	2777	G
1	1	2778	G
1	1	2796	G
1	1	2799	A
1	1	2800	G
1	1	2801	A
1	1	2808	A
1	1	2810	C
1	1	2815	G

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Mol	Chain	Res	Type
1	1	2817	A
1	1	2818	U
1	1	2829	U
1	1	2842	U
1	1	2843	U
1	1	2845	A
1	1	2847	A
1	1	2849	C
1	1	2853	A
1	1	2860	U
1	1	2867	C
1	1	2871	G
1	1	2875	U
1	1	2876	C
1	1	2877	G
1	1	2887	A
1	1	2898	G
1	1	2899	C
1	1	2914	G
1	1	2923	U
1	1	2927	C
1	1	2935	U
1	1	2936	A
1	1	2942	C
1	1	2947	G
1	1	2971	A
1	1	2972	G
1	1	2979	U
1	1	2983	C
1	1	2990	G
1	1	2997	G
1	1	3012	A
1	1	3030	G
1	1	3056	U
1	1	3059	G
1	1	3078	U
1	1	3079	U
1	1	3080	G
1	1	3086	A
1	1	3087	A
1	1	3092	C
1	1	3119	U

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Mol	Chain	Res	Type
1	1	3122	A
1	1	3130	A
1	1	3131	U
1	1	3134	A
1	1	3142	A
1	1	3143	C
1	1	3151	U
1	1	3153	U
1	1	3154	C
1	1	3155	U
1	1	3156	U
1	1	3157	U
1	1	3164	C
1	1	3165	A
1	1	3166	C
1	1	3170	A
1	1	3173	G
1	1	3174	A
1	1	3176	G
1	1	3179	U
1	1	3181	C
1	1	3187	A
1	1	3195	U
1	1	3196	U
1	1	3207	U
1	1	3210	A
1	1	3217	C
1	1	3218	A
1	1	3219	G
1	1	3228	C
1	1	3229	G
1	1	3244	A
1	1	3245	A
1	1	3246	G
1	1	3247	G
1	1	3259	U
1	1	3269	U
1	1	3270	U
1	1	3276	G
1	1	3281	U
1	1	3286	G
1	1	3287	U

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Mol	Chain	Res	Type
1	1	3288	G
1	1	3289	G
1	1	3293	U
1	1	3294	A
1	1	3295	A
1	1	3304	U
1	1	3313	U
1	1	3316	A
1	1	3317	U
1	1	3318	G
1	1	3319	U
1	1	3341	U
1	1	3342	A
1	1	3345	G
1	1	3347	A
1	1	3348	G
1	1	3351	U
1	1	3352	U
1	1	3354	U
1	1	3355	U
1	1	3360	C
1	1	3368	U
1	1	3369	G
1	1	3375	A
1	1	3378	C
1	1	3382	U
1	1	3383	G
1	1	3389	U
1	1	3390	G
1	1	3396	U
2	3	7	G
2	3	22	A
2	3	23	A
2	3	41	G
2	3	54	U
2	3	61	G
2	3	65	G
2	3	74	C
2	3	76	A
2	3	102	A
2	3	112	G
2	3	121	U

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Mol	Chain	Res	Type
3	4	2	A
3	4	26	U
3	4	34	U
3	4	35	C
3	4	48	A
3	4	59	A
3	4	62	C
3	4	63	G
3	4	75	G
3	4	79	A
3	4	80	A
3	4	81	U
3	4	82	U
3	4	84	C
3	4	85	G
3	4	86	U
3	4	87	G
3	4	90	U
3	4	95	G
3	4	96	A
3	4	104	A
3	4	105	A
3	4	106	C
3	4	111	A
3	4	113	U
3	4	125	U
3	4	126	A
3	4	128	U
3	4	138	A
3	4	152	G
3	4	155	A
3	4	158	U
1	AR	16	A
1	AR	26	A
1	AR	40	A
1	AR	49	A
1	AR	59	G
1	AR	60	A
1	AR	65	A
1	AR	66	A
1	AR	72	C
1	AR	73	C

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Mol	Chain	Res	Type
1	AR	74	G
1	AR	76	G
1	AR	93	C
1	AR	99	A
1	AR	109	A
1	AR	110	G
1	AR	111	C
1	AR	116	A
1	AR	121	A
1	AR	122	A
1	AR	133	U
1	AR	135	C
1	AR	136	G
1	AR	156	G
1	AR	157	A
1	AR	165	A
1	AR	166	C
1	AR	172	G
1	AR	173	G
1	AR	182	U
1	AR	187	A
1	AR	190	U
1	AR	191	U
1	AR	200	C
1	AR	210	U
1	AR	218	G
1	AR	219	A
1	AR	231	G
1	AR	234	G
1	AR	240	U
1	AR	241	G
1	AR	243	G
1	AR	245	U
1	AR	247	C
1	AR	248	U
1	AR	249	U
1	AR	250	U
1	AR	251	G
1	AR	252	U
1	AR	253	A
1	AR	269	G
1	AR	286	U

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Mol	Chain	Res	Type
1	AR	295	A
1	AR	298	U
1	AR	299	G
1	AR	321	C
1	AR	323	A
1	AR	329	U
1	AR	343	U
1	AR	349	A
1	AR	350	C
1	AR	351	A
1	AR	376	G
1	AR	380	U
1	AR	395	A
1	AR	398	A
1	AR	399	A
1	AR	401	U
1	AR	402	A
1	AR	403	C
1	AR	421	G
1	AR	422	A
1	AR	436	A
1	AR	437	G
1	AR	438	A
1	AR	521	A
1	AR	535	G
1	AR	543	C
1	AR	544	C
1	AR	546	C
1	AR	550	A
1	AR	551	A
1	AR	552	G
1	AR	555	U
1	AR	557	A
1	AR	559	A
1	AR	578	A
1	AR	579	G
1	AR	592	A
1	AR	600	G
1	AR	604	G
1	AR	607	A
1	AR	608	A
1	AR	609	G

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Mol	Chain	Res	Type
1	AR	611	A
1	AR	612	U
1	AR	619	A
1	AR	620	U
1	AR	621	A
1	AR	622	A
1	AR	636	C
1	AR	649	A
1	AR	660	A
1	AR	677	A
1	AR	681	U
1	AR	683	U
1	AR	691	A
1	AR	705	A
1	AR	712	G
1	AR	715	A
1	AR	716	A
1	AR	725	G
1	AR	758	C
1	AR	763	G
1	AR	764	U
1	AR	765	C
1	AR	766	U
1	AR	767	U
1	AR	776	U
1	AR	777	U
1	AR	781	G
1	AR	783	A
1	AR	785	G
1	AR	786	A
1	AR	806	A
1	AR	813	G
1	AR	816	A
1	AR	817	A
1	AR	830	A
1	AR	849	C
1	AR	861	C
1	AR	874	U
1	AR	879	U
1	AR	896	A
1	AR	907	G
1	AR	908	G

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Mol	Chain	Res	Type
1	AR	914	A
1	AR	916	G
1	AR	917	A
1	AR	921	A
1	AR	923	C
1	AR	924	G
1	AR	937	G
1	AR	944	C
1	AR	959	C
1	AR	960	U
1	AR	963	G
1	AR	974	G
1	AR	979	U
1	AR	980	A
1	AR	981	U
1	AR	982	C
1	AR	994	G
1	AR	1001	G
1	AR	1002	A
1	AR	1010	G
1	AR	1012	G
1	AR	1015	U
1	AR	1017	C
1	AR	1018	G
1	AR	1019	G
1	AR	1020	G
1	AR	1021	G
1	AR	1024	G
1	AR	1025	A
1	AR	1026	A
1	AR	1029	G
1	AR	1032	C
1	AR	1037	C
1	AR	1047	A
1	AR	1049	C
1	AR	1064	A
1	AR	1065	A
1	AR	1072	G
1	AR	1081	U
1	AR	1082	U
1	AR	1083	G
1	AR	1093	A

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Mol	Chain	Res	Type
1	AR	1094	U
1	AR	1095	U
1	AR	1096	U
1	AR	1097	G
1	AR	1098	A
1	AR	1103	A
1	AR	1104	G
1	AR	1117	G
1	AR	1131	G
1	AR	1143	A
1	AR	1153	A
1	AR	1159	A
1	AR	1160	C
1	AR	1180	A
1	AR	1181	U
1	AR	1191	U
1	AR	1192	C
1	AR	1201	C
1	AR	1202	A
1	AR	1209	G
1	AR	1222	G
1	AR	1233	G
1	AR	1235	U
1	AR	1236	G
1	AR	1237	G
1	AR	1239	C
1	AR	1241	U
1	AR	1242	G
1	AR	1243	G
1	AR	1245	A
1	AR	1246	G
1	AR	1248	C
1	AR	1252	A
1	AR	1262	G
1	AR	1263	A
1	AR	1265	U
1	AR	1266	G
1	AR	1285	G
1	AR	1292	C
1	AR	1307	G
1	AR	1309	U
1	AR	1313	G

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Mol	Chain	Res	Type
1	AR	1330	A
1	AR	1345	G
1	AR	1348	U
1	AR	1349	G
1	AR	1350	A
1	AR	1351	U
1	AR	1352	A
1	AR	1353	U
1	AR	1355	A
1	AR	1356	U
1	AR	1357	G
1	AR	1385	C
1	AR	1386	A
1	AR	1387	G
1	AR	1399	A
1	AR	1400	G
1	AR	1419	A
1	AR	1431	G
1	AR	1434	G
1	AR	1437	C
1	AR	1446	A
1	AR	1450	G
1	AR	1481	A
1	AR	1482	A
1	AR	1488	G
1	AR	1490	A
1	AR	1496	C
1	AR	1508	C
1	AR	1514	G
1	AR	1528	G
1	AR	1536	G
1	AR	1549	U
1	AR	1555	U
1	AR	1556	C
1	AR	1560	G
1	AR	1561	G
1	AR	1562	C
1	AR	1563	C
1	AR	1565	G
1	AR	1580	A
1	AR	1581	C
1	AR	1582	C

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Mol	Chain	Res	Type
1	AR	1583	A
1	AR	1587	A
1	AR	1589	A
1	AR	1605	A
1	AR	1620	U
1	AR	1629	U
1	AR	1639	C
1	AR	1643	A
1	AR	1645	U
1	AR	1657	C
1	AR	1658	G
1	AR	1683	A
1	AR	1716	U
1	AR	1717	U
1	AR	1724	U
1	AR	1725	C
1	AR	1741	A
1	AR	1742	U
1	AR	1750	A
1	AR	1751	G
1	AR	1760	A
1	AR	1761	C
1	AR	1762	C
1	AR	1765	U
1	AR	1766	G
1	AR	1767	C
1	AR	1769	G
1	AR	1770	G
1	AR	1775	G
1	AR	1780	G
1	AR	1797	A
1	AR	1810	A
1	AR	1814	A
1	AR	1815	U
1	AR	1816	A
1	AR	1819	U
1	AR	1820	U
1	AR	1821	U
1	AR	1839	A
1	AR	1842	A
1	AR	1849	C
1	AR	1850	A

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Mol	Chain	Res	Type
1	AR	1878	G
1	AR	1884	A
1	AR	1906	G
1	AR	1948	G
1	AR	1952	G
1	AR	1953	G
1	AR	1954	G
1	AR	2094	C
1	AR	2095	G
1	AR	2101	C
1	AR	2102	U
1	AR	2111	G
1	AR	2113	A
1	AR	2114	C
1	AR	2121	G
1	AR	2122	G
1	AR	2131	A
1	AR	2158	A
1	AR	2169	G
1	AR	2184	U
1	AR	2192	C
1	AR	2205	U
1	AR	2209	U
1	AR	2210	G
1	AR	2211	U
1	AR	2223	A
1	AR	2225	U
1	AR	2244	A
1	AR	2252	A
1	AR	2253	G
1	AR	2254	U
1	AR	2255	A
1	AR	2256	A
1	AR	2262	A
1	AR	2264	U
1	AR	2269	U
1	AR	2270	A
1	AR	2273	G
1	AR	2276	G
1	AR	2279	A
1	AR	2280	A
1	AR	2281	A

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Mol	Chain	Res	Type
1	AR	2282	U
1	AR	2288	G
1	AR	2307	G
1	AR	2309	A
1	AR	2310	U
1	AR	2313	A
1	AR	2314	U
1	AR	2315	G
1	AR	2334	U
1	AR	2335	G
1	AR	2336	U
1	AR	2373	A
1	AR	2374	C
1	AR	2375	G
1	AR	2385	G
1	AR	2393	G
1	AR	2394	G
1	AR	2397	A
1	AR	2401	A
1	AR	2402	A
1	AR	2403	G
1	AR	2404	A
1	AR	2411	U
1	AR	2418	G
1	AR	2438	A
1	AR	2443	A
1	AR	2444	C
1	AR	2507	C
1	AR	2508	U
1	AR	2509	U
1	AR	2514	U
1	AR	2515	A
1	AR	2519	A
1	AR	2522	G
1	AR	2523	A
1	AR	2524	A
1	AR	2533	G
1	AR	2534	G
1	AR	2536	A
1	AR	2538	U
1	AR	2539	C
1	AR	2540	A

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Mol	Chain	Res	Type
1	AR	2541	U
1	AR	2542	U
1	AR	2549	G
1	AR	2552	C
1	AR	2555	G
1	AR	2560	C
1	AR	2561	A
1	AR	2565	U
1	AR	2569	A
1	AR	2570	U
1	AR	2571	U
1	AR	2572	C
1	AR	2573	G
1	AR	2580	A
1	AR	2585	G
1	AR	2587	U
1	AR	2593	A
1	AR	2595	A
1	AR	2606	G
1	AR	2607	G
1	AR	2614	G
1	AR	2618	G
1	AR	2638	C
1	AR	2652	U
1	AR	2656	A
1	AR	2674	A
1	AR	2677	G
1	AR	2681	U
1	AR	2689	A
1	AR	2690	G
1	AR	2691	A
1	AR	2694	A
1	AR	2696	A
1	AR	2714	G
1	AR	2728	G
1	AR	2729	U
1	AR	2752	U
1	AR	2753	G
1	AR	2762	A
1	AR	2772	C
1	AR	2777	G
1	AR	2778	G

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Mol	Chain	Res	Type
1	AR	2781	U
1	AR	2796	G
1	AR	2799	A
1	AR	2800	G
1	AR	2801	A
1	AR	2802	A
1	AR	2810	C
1	AR	2814	G
1	AR	2816	G
1	AR	2817	A
1	AR	2818	U
1	AR	2839	G
1	AR	2842	U
1	AR	2843	U
1	AR	2845	A
1	AR	2847	A
1	AR	2849	C
1	AR	2860	U
1	AR	2863	G
1	AR	2871	G
1	AR	2872	A
1	AR	2873	U
1	AR	2875	U
1	AR	2876	C
1	AR	2887	A
1	AR	2894	C
1	AR	2896	A
1	AR	2899	C
1	AR	2923	U
1	AR	2935	U
1	AR	2936	A
1	AR	2942	C
1	AR	2947	G
1	AR	2954	U
1	AR	2968	G
1	AR	2971	A
1	AR	2983	C
1	AR	2990	G
1	AR	2992	U
1	AR	2997	G
1	AR	3012	A
1	AR	3045	G

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Mol	Chain	Res	Type
1	AR	3056	U
1	AR	3057	U
1	AR	3059	G
1	AR	3078	U
1	AR	3079	U
1	AR	3086	A
1	AR	3087	A
1	AR	3092	C
1	AR	3122	A
1	AR	3123	A
1	AR	3130	A
1	AR	3131	U
1	AR	3142	A
1	AR	3143	C
1	AR	3151	U
1	AR	3153	U
1	AR	3155	U
1	AR	3156	U
1	AR	3157	U
1	AR	3158	G
1	AR	3164	C
1	AR	3165	A
1	AR	3167	A
1	AR	3168	A
1	AR	3172	A
1	AR	3173	G
1	AR	3174	A
1	AR	3176	G
1	AR	3179	U
1	AR	3181	C
1	AR	3187	A
1	AR	3195	U
1	AR	3198	U
1	AR	3206	C
1	AR	3207	U
1	AR	3209	A
1	AR	3217	C
1	AR	3218	A
1	AR	3219	G
1	AR	3223	A
1	AR	3228	C
1	AR	3229	G

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Mol	Chain	Res	Type
1	AR	3242	G
1	AR	3244	A
1	AR	3245	A
1	AR	3246	G
1	AR	3247	G
1	AR	3253	G
1	AR	3259	U
1	AR	3265	C
1	AR	3266	G
1	AR	3270	U
1	AR	3275	U
1	AR	3276	G
1	AR	3277	U
1	AR	3278	C
1	AR	3281	U
1	AR	3286	G
1	AR	3287	U
1	AR	3288	G
1	AR	3289	G
1	AR	3304	U
1	AR	3313	U
1	AR	3316	A
1	AR	3317	U
1	AR	3318	G
1	AR	3319	U
1	AR	3320	A
1	AR	3341	U
1	AR	3342	A
1	AR	3345	G
1	AR	3347	A
1	AR	3351	U
1	AR	3352	U
1	AR	3353	G
1	AR	3354	U
1	AR	3355	U
1	AR	3356	G
1	AR	3359	A
1	AR	3369	G
1	AR	3375	A
1	AR	3378	C
1	AR	3383	G
1	AR	3389	U

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Mol	Chain	Res	Type
1	AR	3390	G
2	AS	7	G
2	AS	17	A
2	AS	22	A
2	AS	33	U
2	AS	38	U
2	AS	41	G
2	AS	53	U
2	AS	54	U
2	AS	60	G
2	AS	65	G
2	AS	73	C
2	AS	74	C
2	AS	76	A
2	AS	99	G
2	AS	101	G
2	AS	102	A
2	AS	112	G
2	AS	121	U
3	AT	21	C
3	AT	34	U
3	AT	35	C
3	AT	48	A
3	AT	51	G
3	AT	59	A
3	AT	62	C
3	AT	63	G
3	AT	80	A
3	AT	81	U
3	AT	82	U
3	AT	83	C
3	AT	84	C
3	AT	85	G
3	AT	86	U
3	AT	87	G
3	AT	90	U
3	AT	95	G
3	AT	96	A
3	AT	97	A
3	AT	104	A
3	AT	105	A
3	AT	106	C

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Mol	Chain	Res	Type
3	AT	111	A
3	AT	113	U
3	AT	116	G
3	AT	125	U
3	AT	152	G
3	AT	155	A
3	AT	158	U
47	A	2	A
47	A	4	C
47	A	8	U
47	A	17	C
47	A	25	C
47	A	26	A
47	A	27	U
47	A	34	G
47	A	39	A
47	A	42	G
47	A	45	U
47	A	47	A
47	A	57	G
47	A	60	U
47	A	67	A
47	A	68	A
47	A	69	G
47	A	72	A
47	A	73	U
47	A	74	U
47	A	81	G
47	A	104	A
47	A	114	C
47	A	115	G
47	A	127	G
47	A	130	C
47	A	131	C
47	A	140	A
47	A	141	U
47	A	144	U
47	A	145	A
47	A	146	U
47	A	153	G
47	A	158	U
47	A	159	U

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Mol	Chain	Res	Type
47	A	161	U
47	A	169	A
47	A	170	U
47	A	178	U
47	A	179	A
47	A	185	U
47	A	186	C
47	A	188	A
47	A	190	C
47	A	191	C
47	A	192	U
47	A	193	U
47	A	195	G
47	A	197	A
47	A	200	A
47	A	215	A
47	A	217	A
47	A	219	A
47	A	226	A
47	A	227	U
47	A	229	U
47	A	233	C
47	A	235	G
47	A	236	A
47	A	246	G
47	A	250	C
47	A	260	U
47	A	261	U
47	A	265	A
47	A	271	A
47	A	272	U
47	A	274	G
47	A	275	C
47	A	276	C
47	A	277	U
47	A	278	U
47	A	279	G
47	A	280	U
47	A	281	G
47	A	284	G
47	A	288	A
47	A	290	G

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Mol	Chain	Res	Type
47	A	292	U
47	A	299	A
47	A	302	U
47	A	309	C
47	A	314	C
47	A	316	A
47	A	319	U
47	A	320	U
47	A	321	C
47	A	322	G
47	A	333	A
47	A	337	G
47	A	338	C
47	A	352	A
47	A	359	A
47	A	360	A
47	A	361	C
47	A	378	A
47	A	390	G
47	A	397	A
47	A	400	A
47	A	402	C
47	A	403	G
47	A	404	G
47	A	418	G
47	A	419	G
47	A	424	C
47	A	425	A
47	A	426	G
47	A	428	A
47	A	434	G
47	A	439	U
47	A	444	C
47	A	448	C
47	A	468	A
47	A	470	A
47	A	471	A
47	A	475	A
47	A	477	A
47	A	479	C
47	A	480	G
47	A	483	A

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Mol	Chain	Res	Type
47	A	484	C
47	A	485	A
47	A	488	G
47	A	493	U
47	A	495	C
47	A	496	G
47	A	497	G
47	A	498	G
47	A	499	U
47	A	500	C
47	A	502	U
47	A	503	G
47	A	504	U
47	A	505	A
47	A	506	A
47	A	507	U
47	A	509	G
47	A	510	G
47	A	511	A
47	A	512	A
47	A	513	U
47	A	515	A
47	A	516	G
47	A	527	A
47	A	532	U
47	A	536	C
47	A	538	A
47	A	539	G
47	A	540	G
47	A	541	A
47	A	542	A
47	A	543	C
47	A	544	A
47	A	548	G
47	A	551	G
47	A	555	A
47	A	556	A
47	A	557	G
47	A	558	U
47	A	559	C
47	A	565	C
47	A	568	G

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Mol	Chain	Res	Type
47	A	579	A
47	A	580	A
47	A	581	U
47	A	583	C
47	A	594	A
47	A	595	G
47	A	608	U
47	A	611	U
47	A	619	A
47	A	620	A
47	A	622	A
47	A	623	A
47	A	624	G
47	A	639	U
47	A	640	U
47	A	650	U
47	A	654	C
47	A	655	G
47	A	677	G
47	A	678	A
47	A	679	U
47	A	680	U
47	A	682	C
47	A	684	A
47	A	686	C
47	A	694	U
47	A	696	C
47	A	697	C
47	A	700	C
47	A	702	G
47	A	703	G
47	A	704	C
47	A	705	U
47	A	706	A
47	A	707	A
47	A	709	C
47	A	710	U
47	A	711	U
47	A	712	G
47	A	714	G
47	A	716	C
47	A	717	C

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Mol	Chain	Res	Type
47	A	718	U
47	A	719	U
47	A	720	G
47	A	721	U
47	A	722	G
47	A	723	G
47	A	724	C
47	A	725	U
47	A	726	C
47	A	727	U
47	A	731	C
47	A	732	G
47	A	733	A
47	A	734	A
47	A	735	C
47	A	737	A
47	A	738	G
47	A	742	U
47	A	743	U
47	A	745	U
47	A	754	A
47	A	755	A
47	A	756	A
47	A	765	G
47	A	766	U
47	A	774	A
47	A	775	G
47	A	778	G
47	A	781	U
47	A	782	U
47	A	783	G
47	A	784	C
47	A	787	G
47	A	789	A
47	A	793	A
47	A	794	U
47	A	795	U
47	A	803	A
47	A	812	A
47	A	814	A
47	A	815	G
47	A	816	G

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Mol	Chain	Res	Type
47	A	818	C
47	A	819	G
47	A	820	U
47	A	821	U
47	A	823	G
47	A	830	U
47	A	831	U
47	A	832	U
47	A	833	U
47	A	841	U
47	A	846	G
47	A	856	A
47	A	863	A
47	A	864	U
47	A	876	G
47	A	886	U
47	A	892	A
47	A	898	A
47	A	899	G
47	A	912	U
47	A	913	G
47	A	914	G
47	A	915	A
47	A	916	U
47	A	933	A
47	A	934	C
47	A	935	U
47	A	942	G
47	A	951	A
47	A	960	U
47	A	966	A
47	A	989	U
47	A	992	A
47	A	993	A
47	A	997	G
47	A	1002	G
47	A	1003	A
47	A	1004	U
47	A	1005	A
47	A	1026	A
47	A	1028	C
47	A	1039	A

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Mol	Chain	Res	Type
47	A	1040	G
47	A	1049	U
47	A	1052	U
47	A	1053	G
47	A	1057	U
47	A	1058	U
47	A	1060	U
47	A	1074	G
47	A	1082	C
47	A	1086	A
47	A	1091	A
47	A	1092	A
47	A	1093	A
47	A	1096	C
47	A	1097	U
47	A	1098	U
47	A	1100	G
47	A	1109	G
47	A	1138	A
47	A	1140	G
47	A	1146	G
47	A	1150	G
47	A	1151	A
47	A	1157	A
47	A	1158	C
47	A	1160	A
47	A	1163	A
47	A	1167	G
47	A	1168	U
47	A	1185	U
47	A	1191	U
47	A	1194	A
47	A	1196	A
47	A	1199	G
47	A	1200	G
47	A	1202	A
47	A	1203	A
47	A	1207	C
47	A	1217	A
47	A	1218	G
47	A	1226	A
47	A	1227	A

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Mol	Chain	Res	Type
47	A	1229	G
47	A	1241	G
47	A	1242	A
47	A	1243	G
47	A	1244	A
47	A	1245	G
47	A	1246	C
47	A	1250	U
47	A	1251	U
47	A	1257	U
47	A	1258	U
47	A	1260	U
47	A	1284	C
47	A	1285	U
47	A	1314	U
47	A	1315	U
47	A	1321	A
47	A	1324	G
47	A	1339	C
47	A	1340	U
47	A	1341	A
47	A	1344	A
47	A	1346	A
47	A	1354	G
47	A	1361	U
47	A	1362	U
47	A	1363	U
47	A	1364	G
47	A	1370	U
47	A	1371	A
47	A	1372	U
47	A	1378	U
47	A	1388	A
47	A	1390	U
47	A	1394	G
47	A	1398	U
47	A	1399	C
47	A	1413	U
47	A	1415	U
47	A	1424	A
47	A	1427	A
47	A	1428	G

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Mol	Chain	Res	Type
47	A	1446	A
47	A	1459	C
47	A	1460	A
47	A	1461	C
47	A	1469	A
47	A	1471	A
47	A	1473	U
47	A	1474	G
47	A	1475	A
47	A	1481	C
47	A	1482	C
47	A	1484	G
47	A	1486	G
47	A	1487	A
47	A	1489	U
47	A	1490	C
47	A	1491	U
47	A	1492	A
47	A	1499	G
47	A	1506	G
47	A	1515	A
47	A	1516	A
47	A	1517	U
47	A	1521	G
47	A	1523	G
47	A	1524	A
47	A	1526	A
47	A	1535	U
47	A	1536	G
47	A	1537	C
47	A	1538	U
47	A	1542	G
47	A	1557	U
47	A	1558	U
47	A	1559	A
47	A	1560	U
47	A	1569	A
47	A	1572	G
47	A	1574	G
47	A	1584	G
47	A	1590	G
47	A	1600	A

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Mol	Chain	Res	Type
47	A	1601	G
47	A	1614	A
47	A	1616	G
47	A	1631	A
47	A	1634	C
47	A	1657	U
47	A	1658	G
47	A	1662	G
47	A	1663	G
47	A	1680	G
47	A	1681	A
47	A	1682	U
47	A	1683	C
47	A	1684	U
47	A	1731	A
47	A	1755	A
47	A	1760	G
47	A	1762	A
47	A	1766	A
47	A	1769	U
47	A	1780	G
47	A	1782	A
47	A	1783	C
47	A	1790	A
47	A	1792	G
47	A	1793	G
47	A	1794	A
47	A	1795	U
47	A	1796	C
47	sR	2	A
47	sR	17	C
47	sR	25	C
47	sR	26	A
47	sR	27	U
47	sR	34	G
47	sR	47	A
47	sR	57	G
47	sR	60	U
47	sR	61	A
47	sR	68	A
47	sR	69	G
47	sR	72	A

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Mol	Chain	Res	Type
47	sR	73	U
47	sR	75	U
47	sR	76	A
47	sR	77	U
47	sR	78	A
47	sR	104	A
47	sR	114	C
47	sR	126	A
47	sR	128	U
47	sR	132	U
47	sR	137	U
47	sR	138	A
47	sR	140	A
47	sR	141	U
47	sR	144	U
47	sR	145	A
47	sR	146	U
47	sR	153	G
47	sR	159	U
47	sR	166	C
47	sR	176	C
47	sR	177	U
47	sR	178	U
47	sR	185	U
47	sR	188	A
47	sR	191	C
47	sR	192	U
47	sR	193	U
47	sR	194	U
47	sR	195	G
47	sR	196	G
47	sR	197	A
47	sR	200	A
47	sR	216	U
47	sR	218	A
47	sR	219	A
47	sR	224	C
47	sR	227	U
47	sR	228	G
47	sR	230	C
47	sR	232	U
47	sR	233	C

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Mol	Chain	Res	Type
47	sR	235	G
47	sR	238	U
47	sR	240	U
47	sR	241	U
47	sR	245	U
47	sR	249	U
47	sR	250	C
47	sR	265	A
47	sR	267	U
47	sR	270	C
47	sR	271	A
47	sR	272	U
47	sR	273	G
47	sR	275	C
47	sR	277	U
47	sR	278	U
47	sR	280	U
47	sR	281	G
47	sR	299	A
47	sR	301	A
47	sR	314	C
47	sR	316	A
47	sR	319	U
47	sR	320	U
47	sR	321	C
47	sR	322	G
47	sR	335	U
47	sR	337	G
47	sR	338	C
47	sR	352	A
47	sR	359	A
47	sR	360	A
47	sR	361	C
47	sR	380	U
47	sR	400	A
47	sR	401	A
47	sR	402	C
47	sR	404	G
47	sR	416	A
47	sR	418	G
47	sR	424	C
47	sR	425	A

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Mol	Chain	Res	Type
47	sR	426	G
47	sR	434	G
47	sR	437	A
47	sR	439	U
47	sR	444	C
47	sR	445	A
47	sR	448	C
47	sR	454	U
47	sR	468	A
47	sR	484	C
47	sR	486	G
47	sR	487	G
47	sR	488	G
47	sR	489	C
47	sR	490	C
47	sR	492	A
47	sR	493	U
47	sR	494	U
47	sR	495	C
47	sR	496	G
47	sR	497	G
47	sR	500	C
47	sR	501	U
47	sR	502	U
47	sR	505	A
47	sR	506	A
47	sR	507	U
47	sR	508	U
47	sR	510	G
47	sR	511	A
47	sR	512	A
47	sR	513	U
47	sR	514	G
47	sR	519	C
47	sR	527	A
47	sR	538	A
47	sR	539	G
47	sR	540	G
47	sR	541	A
47	sR	542	A
47	sR	543	C
47	sR	544	A

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Mol	Chain	Res	Type
47	sR	548	G
47	sR	551	G
47	sR	556	A
47	sR	557	G
47	sR	558	U
47	sR	559	C
47	sR	565	C
47	sR	566	C
47	sR	570	A
47	sR	574	G
47	sR	578	U
47	sR	579	A
47	sR	580	A
47	sR	582	U
47	sR	594	A
47	sR	595	G
47	sR	611	U
47	sR	619	A
47	sR	620	A
47	sR	622	A
47	sR	623	A
47	sR	624	G
47	sR	637	C
47	sR	639	U
47	sR	640	U
47	sR	648	G
47	sR	650	U
47	sR	651	G
47	sR	652	G
47	sR	653	C
47	sR	654	C
47	sR	658	C
47	sR	679	U
47	sR	680	U
47	sR	681	U
47	sR	682	C
47	sR	683	C
47	sR	684	A
47	sR	685	A
47	sR	690	G
47	sR	691	C
47	sR	696	C

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Mol	Chain	Res	Type
47	sR	705	U
47	sR	709	C
47	sR	710	U
47	sR	711	U
47	sR	715	U
47	sR	718	U
47	sR	719	U
47	sR	720	G
47	sR	721	U
47	sR	722	G
47	sR	730	G
47	sR	739	G
47	sR	743	U
47	sR	745	U
47	sR	753	A
47	sR	754	A
47	sR	755	A
47	sR	756	A
47	sR	765	G
47	sR	766	U
47	sR	774	A
47	sR	775	G
47	sR	780	A
47	sR	781	U
47	sR	782	U
47	sR	783	G
47	sR	789	A
47	sR	793	A
47	sR	794	U
47	sR	795	U
47	sR	811	A
47	sR	812	A
47	sR	814	A
47	sR	815	G
47	sR	816	G
47	sR	821	U
47	sR	823	G
47	sR	824	G
47	sR	825	U
47	sR	826	U
47	sR	829	A
47	sR	830	U

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Mol	Chain	Res	Type
47	sR	831	U
47	sR	832	U
47	sR	834	G
47	sR	835	U
47	sR	846	G
47	sR	847	A
47	sR	856	A
47	sR	862	A
47	sR	863	A
47	sR	876	G
47	sR	898	A
47	sR	906	A
47	sR	910	C
47	sR	912	U
47	sR	913	G
47	sR	914	G
47	sR	916	U
47	sR	929	A
47	sR	933	A
47	sR	935	U
47	sR	942	G
47	sR	959	U
47	sR	960	U
47	sR	966	A
47	sR	970	A
47	sR	971	A
47	sR	992	A
47	sR	997	G
47	sR	1003	A
47	sR	1004	U
47	sR	1005	A
47	sR	1013	A
47	sR	1021	C
47	sR	1026	A
47	sR	1028	C
47	sR	1039	A
47	sR	1040	G
47	sR	1052	U
47	sR	1053	G
47	sR	1057	U
47	sR	1058	U
47	sR	1059	U

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Mol	Chain	Res	Type
47	sR	1060	U
47	sR	1061	A
47	sR	1062	A
47	sR	1073	G
47	sR	1075	C
47	sR	1081	A
47	sR	1082	C
47	sR	1086	A
47	sR	1092	A
47	sR	1096	C
47	sR	1097	U
47	sR	1098	U
47	sR	1100	G
47	sR	1137	A
47	sR	1138	A
47	sR	1150	G
47	sR	1155	G
47	sR	1158	C
47	sR	1159	C
47	sR	1160	A
47	sR	1161	C
47	sR	1167	G
47	sR	1185	U
47	sR	1194	A
47	sR	1196	A
47	sR	1197	C
47	sR	1199	G
47	sR	1200	G
47	sR	1202	A
47	sR	1207	C
47	sR	1208	A
47	sR	1217	A
47	sR	1218	G
47	sR	1219	A
47	sR	1220	C
47	sR	1225	U
47	sR	1227	A
47	sR	1228	G
47	sR	1229	G
47	sR	1230	A
47	sR	1231	U
47	sR	1241	G

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Mol	Chain	Res	Type
47	sR	1243	G
47	sR	1244	A
47	sR	1245	G
47	sR	1246	C
47	sR	1255	G
47	sR	1256	A
47	sR	1257	U
47	sR	1258	U
47	sR	1272	U
47	sR	1286	U
47	sR	1288	G
47	sR	1291	G
47	sR	1298	U
47	sR	1311	U
47	sR	1314	U
47	sR	1315	U
47	sR	1316	G
47	sR	1321	A
47	sR	1335	U
47	sR	1337	A
47	sR	1341	A
47	sR	1344	A
47	sR	1345	A
47	sR	1346	A
47	sR	1347	U
47	sR	1354	G
47	sR	1361	U
47	sR	1362	U
47	sR	1363	U
47	sR	1364	G
47	sR	1367	G
47	sR	1370	U
47	sR	1371	A
47	sR	1383	G
47	sR	1388	A
47	sR	1390	U
47	sR	1396	U
47	sR	1398	U
47	sR	1399	C
47	sR	1400	A
47	sR	1402	G
47	sR	1410	A

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Mol	Chain	Res	Type
47	sR	1413	U
47	sR	1414	U
47	sR	1415	U
47	sR	1417	A
47	sR	1422	A
47	sR	1427	A
47	sR	1428	G
47	sR	1433	G
47	sR	1437	U
47	sR	1445	G
47	sR	1446	A
47	sR	1448	G
47	sR	1459	C
47	sR	1460	A
47	sR	1461	C
47	sR	1469	A
47	sR	1471	A
47	sR	1473	U
47	sR	1482	C
47	sR	1483	A
47	sR	1489	U
47	sR	1490	C
47	sR	1491	U
47	sR	1492	A
47	sR	1506	G
47	sR	1514	U
47	sR	1516	A
47	sR	1517	U
47	sR	1521	G
47	sR	1523	G
47	sR	1524	A
47	sR	1535	U
47	sR	1536	G
47	sR	1537	C
47	sR	1538	U
47	sR	1540	G
47	sR	1542	G
47	sR	1554	U
47	sR	1557	U
47	sR	1559	A
47	sR	1569	A
47	sR	1572	G

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Mol	Chain	Res	Type
47	sR	1573	A
47	sR	1574	G
47	sR	1575	G
47	sR	1582	U
47	sR	1584	G
47	sR	1590	G
47	sR	1600	A
47	sR	1601	G
47	sR	1621	U
47	sR	1634	C
47	sR	1657	U
47	sR	1658	G
47	sR	1682	U
47	sR	1695	G
47	sR	1696	G
47	sR	1697	G
47	sR	1698	G
47	sR	1699	G
47	sR	1700	C
47	sR	1702	A
47	sR	1703	C
47	sR	1712	A
47	sR	1716	C
47	sR	1717	G
47	sR	1731	A
47	sR	1760	G
47	sR	1766	A
47	sR	1767	G
47	sR	1769	U
47	sR	1780	G
47	sR	1782	A
47	sR	1792	G
47	sR	1793	G
47	sR	1794	A
47	sR	1795	U
47	sR	1796	C
47	sR	1799	U
47	sR	1800	A

All (130) RNA pucker outliers are listed below:

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Mol	Chain	Res	Type

Mol	Chain	Res	Type
1	1	65	A
1	1	239	G
1	1	282	G
1	1	588	G
1	1	619	A
1	1	763	G
1	1	873	C
1	1	916	G
1	1	979	U
1	1	981	U
1	1	993	G
1	1	1094	U
1	1	1097	G
1	1	1103	A
1	1	1273	A
1	1	1329	U
1	1	1355	A
1	1	1562	C
1	1	1589	A
1	1	1716	U
1	1	1809	A
1	1	1820	U
1	1	2101	C
1	1	2112	U
1	1	2209	U
1	1	2227	C
1	1	2249	G
1	1	2537	U
1	1	2539	C
1	1	2541	U
1	1	2593	A
1	1	2801	A
1	1	2818	U
1	1	2874	G
1	1	2875	U
1	1	3078	U
1	1	3121	U
1	1	3218	A
1	1	3228	C
1	1	3269	U
1	1	3350	C

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Mol	Chain	Res	Type
1	1	3351	U
1	1	3353	G
3	4	85	G
3	4	125	U
1	AR	65	A
1	AR	239	G
1	AR	550	A
1	AR	588	G
1	AR	715	A
1	AR	873	C
1	AR	916	G
1	AR	979	U
1	AR	981	U
1	AR	993	G
1	AR	1064	A
1	AR	1094	U
1	AR	1097	G
1	AR	1238	C
1	AR	1241	U
1	AR	1284	C
1	AR	1329	U
1	AR	1348	U
1	AR	1352	A
1	AR	1355	A
1	AR	1562	C
1	AR	1716	U
1	AR	1815	U
1	AR	1820	U
1	AR	2101	C
1	AR	2112	U
1	AR	2252	A
1	AR	2255	A
1	AR	2269	U
1	AR	2373	A
1	AR	2400	G
1	AR	2537	U
1	AR	2541	U
1	AR	2586	G
1	AR	2801	A
1	AR	2818	U
1	AR	2871	G
1	AR	3078	U

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Mol	Chain	Res	Type
1	AR	3121	U
1	AR	3157	U
1	AR	3218	A
1	AR	3228	C
1	AR	3269	U
1	AR	3350	C
1	AR	3358	U
2	AS	52	G
3	AT	85	G
47	A	25	C
47	A	45	U
47	A	73	U
47	A	130	C
47	A	139	C
47	A	158	U
47	A	187	G
47	A	218	A
47	A	232	U
47	A	278	U
47	A	417	A
47	A	499	U
47	A	501	U
47	A	503	G
47	A	512	A
47	A	555	A
47	A	580	A
47	A	685	A
47	A	704	C
47	A	720	G
47	A	721	U
47	A	755	A
47	A	781	U
47	A	1051	G
47	A	1081	A
47	A	1150	G
47	A	1157	A
47	A	1244	A
47	A	1250	U
47	A	1370	U
47	A	1481	C
47	A	1489	U
47	A	1537	C

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Mol	Chain	Res	Type
47	A	1568	C
47	A	1573	A
47	A	1657	U
47	A	1754	A
47	A	1761	U

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry (i)

Of 2428 ligands modelled in this entry, 1482 are monoatomic - leaving 946 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	$\#\|Z\| > 2$
81	OHX	1	3428	-	0,6,6	-	-	-		
81	OHX	A	2120	-	0,6,6	-	-	-		
81	OHX	1	3568	-	0,6,6	-	-	-		
81	OHX	AT	209	-	0,6,6	-	-	-		
81	OHX	A	1907	-	0,6,6	-	-	-		
81	OHX	A	2108	-	0,6,6	-	-	-		
81	OHX	1	3611	-	0,6,6	-	-	-		
81	OHX	CX	201	-	0,6,6	-	-	-		
81	OHX	sR	1964	-	0,6,6	-	-	-		
81	OHX	AR	4199	-	0,6,6	-	-	-		
81	OHX	1	3595	-	0,6,6	-	-	-		
81	OHX	1	3482[B]	-	0,6,6	-	-	-		
81	OHX	1	4093	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	U	201	-	0,6,6	-	-	-		
81	OHX	A	1972	-	0,6,6	-	-	-		
81	OHX	AR	3602	-	0,6,6	-	-	-		
81	OHX	sR	1951	-	0,6,6	-	-	-		
81	OHX	sR	2008	-	0,6,6	-	-	-		
81	OHX	A	1922	-	0,6,6	-	-	-		
81	OHX	1	3527	-	0,6,6	-	-	-		
81	OHX	sR	1930	-	0,6,6	-	-	-		
81	OHX	A	2121	-	0,6,6	-	-	-		
81	OHX	1	3607	-	0,6,6	-	-	-		
81	OHX	A	1964	-	0,6,6	-	-	-		
81	OHX	4	204	-	0,6,6	-	-	-		
81	OHX	1	3456	-	0,6,6	-	-	-		
81	OHX	1	3425	-	0,6,6	-	-	-		
81	OHX	AR	3419	-	0,6,6	-	-	-		
81	OHX	1	3441	-	0,6,6	-	-	-		
81	OHX	1	3435	-	0,6,6	-	-	-		
81	OHX	sR	1981	-	0,6,6	-	-	-		
81	OHX	AR	3410	-	0,6,6	-	-	-		
81	OHX	A	2136	-	0,6,6	-	-	-		
81	OHX	sR	1942	-	0,6,6	-	-	-		
81	OHX	A	1950	-	0,6,6	-	-	-		
81	OHX	4	209	-	0,6,6	-	-	-		
81	OHX	1	3502	-	0,6,6	-	-	-		
81	OHX	1	3453	-	0,6,6	-	-	-		
81	OHX	AR	3407	-	0,6,6	-	-	-		
81	OHX	1	3555	-	0,6,6	-	-	-		
81	OHX	sR	1959	-	0,6,6	-	-	-		
81	OHX	AR	3649	-	0,6,6	-	-	-		
81	OHX	3	218	-	0,6,6	-	-	-		
81	OHX	AR	3450	-	0,6,6	-	-	-		
81	OHX	AR	3537	-	0,6,6	-	-	-		
81	OHX	AR	3417	-	0,6,6	-	-	-		
81	OHX	1	3548	-	0,6,6	-	-	-		
81	OHX	1	4099	-	0,6,6	-	-	-		
81	OHX	AR	3656	-	0,6,6	-	-	-		
81	OHX	3	205	-	0,6,6	-	-	-		
81	OHX	AR	3645	-	0,6,6	-	-	-		
81	OHX	e	102	-	0,6,6	-	-	-		
81	OHX	1	3587	-	0,6,6	-	-	-		
81	OHX	A	1923	-	0,6,6	-	-	-		
81	OHX	A	1942	-	0,6,6	-	-	-		
81	OHX	A	1956	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
81	OHX	AR	3681	-	0,6,6	-	-	-		
81	OHX	AR	3567	-	0,6,6	-	-	-		
81	OHX	A	1951	-	0,6,6	-	-	-		
81	OHX	A	1910	-	0,6,6	-	-	-		
81	OHX	A	1903	-	0,6,6	-	-	-		
81	OHX	AR	3502	-	0,6,6	-	-	-		
81	OHX	x	209	-	0,6,6	-	-	-		
81	OHX	AR	3593	-	0,6,6	-	-	-		
81	OHX	1	3492	-	0,6,6	-	-	-		
81	OHX	AR	3636	-	0,6,6	-	-	-		
81	OHX	AR	3608	-	0,6,6	-	-	-		
81	OHX	1	3536	-	0,6,6	-	-	-		
81	OHX	AR	3586	-	0,6,6	-	-	-		
81	OHX	AR	3624	-	0,6,6	-	-	-		
81	OHX	A	1919	-	0,6,6	-	-	-		
81	OHX	1	4124	-	0,6,6	-	-	-		
81	OHX	1	4142	-	0,6,6	-	-	-		
81	OHX	A	2141	-	0,6,6	-	-	-		
81	OHX	1	3558	-	0,6,6	-	-	-		
81	OHX	1	3596	-	0,6,6	-	-	-		
81	OHX	A	2143	81	0,5,6	-	-	-		
81	OHX	4	213	-	0,6,6	-	-	-		
81	OHX	1	3539	-	0,6,6	-	-	-		
81	OHX	1	4091	-	0,6,6	-	-	-		
81	OHX	1	3513	-	0,6,6	-	-	-		
81	OHX	AR	3687[B]	-	0,6,6	-	-	-		
81	OHX	A	1963	-	0,6,6	-	-	-		
81	OHX	AR	3517	-	0,6,6	-	-	-		
81	OHX	1	4075	-	0,6,6	-	-	-		
81	OHX	1	4097	-	0,6,6	-	-	-		
81	OHX	AR	3647	-	0,6,6	-	-	-		
81	OHX	A	2122	-	0,6,6	-	-	-		
81	OHX	sR	1905	-	0,6,6	-	-	-		
81	OHX	1	3546	-	0,6,6	-	-	-		
81	OHX	AR	3487	-	0,6,6	-	-	-		
81	OHX	A	1925	-	0,6,6	-	-	-		
81	OHX	A	1924	-	0,6,6	-	-	-		
81	OHX	AR	3639	-	0,6,6	-	-	-		
81	OHX	1	3504	-	0,6,6	-	-	-		
84	XBI	1	4157	-	28,28,28	0.57	0	36,45,45	2.19	7 (19%)
81	OHX	1	3591	-	0,6,6	-	-	-		
81	OHX	AR	3579	-	0,6,6	-	-	-		
81	OHX	AR	3640	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	A	2109	-	0,6,6	-	-	-		
81	OHX	AR	3522	-	0,6,6	-	-	-		
81	OHX	1	3436	-	0,6,6	-	-	-		
81	OHX	1	4116	-	0,6,6	-	-	-		
81	OHX	1	3535[B]	-	0,6,6	-	-	-		
81	OHX	v	301	-	0,6,6	-	-	-		
81	OHX	CE	403	-	0,6,6	-	-	-		
81	OHX	A	1945	-	0,6,6	-	-	-		
81	OHX	1	3582	-	0,6,6	-	-	-		
81	OHX	S	201	-	0,6,6	-	-	-		
81	OHX	sR	1956	-	0,6,6	-	-	-		
81	OHX	AR	3673	-	0,6,6	-	-	-		
81	OHX	1	3439	-	0,6,6	-	-	-		
81	OHX	A	1946	-	0,6,6	-	-	-		
81	OHX	sR	2001	-	0,6,6	-	-	-		
81	OHX	1	3616	-	0,6,6	-	-	-		
81	OHX	A	1937	-	0,6,6	-	-	-		
81	OHX	AR	3528	-	0,6,6	-	-	-		
81	OHX	AR	3497	-	0,6,6	-	-	-		
81	OHX	AR	3420	-	0,6,6	-	-	-		
81	OHX	AR	3634	-	0,6,6	-	-	-		
81	OHX	A	2105	-	0,6,6	-	-	-		
81	OHX	AR	3500	-	0,6,6	-	-	-		
81	OHX	AR	3411	-	0,6,6	-	-	-		
81	OHX	AR	3433	-	0,6,6	-	-	-		
81	OHX	AR	3633	-	0,6,6	-	-	-		
81	OHX	AR	3622	-	0,6,6	-	-	-		
81	OHX	sR	1974	-	0,6,6	-	-	-		
81	OHX	1	4102	-	0,6,6	-	-	-		
81	OHX	AR	3554	-	0,6,6	-	-	-		
81	OHX	AR	3610	-	0,6,6	-	-	-		
81	OHX	sR	2004	-	0,6,6	-	-	-		
81	OHX	sR	2017	-	0,6,6	-	-	-		
81	OHX	AR	3557	-	0,6,6	-	-	-		
81	OHX	sR	1914	-	0,6,6	-	-	-		
81	OHX	1	3534	-	0,6,6	-	-	-		
81	OHX	1	3599	-	0,6,6	-	-	-		
81	OHX	r	304	-	0,6,6	-	-	-		
81	OHX	AR	3404	-	0,6,6	-	-	-		
81	OHX	A	1921	-	0,6,6	-	-	-		
81	OHX	AR	3426	-	0,6,6	-	-	-		
81	OHX	AR	3415	-	0,6,6	-	-	-		
81	OHX	A	2138	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	AR	3603	-	0,6,6	-	-	-		
81	OHX	sR	1929	-	0,6,6	-	-	-		
81	OHX	c3	201	-	0,6,6	-	-	-		
81	OHX	AR	3452	-	0,6,6	-	-	-		
81	OHX	AK	103	-	0,6,6	-	-	-		
81	OHX	AR	3483	-	0,6,6	-	-	-		
81	OHX	AR	3549	-	0,6,6	-	-	-		
81	OHX	AR	3558	-	0,6,6	-	-	-		
81	OHX	AR	3413	-	0,6,6	-	-	-		
81	OHX	AR	3629	-	0,6,6	-	-	-		
81	OHX	AR	4175	-	0,6,6	-	-	-		
81	OHX	A	1958	-	0,6,6	-	-	-		
81	OHX	A	1952	-	0,6,6	-	-	-		
81	OHX	AR	3613	-	0,6,6	-	-	-		
81	OHX	sR	2023	-	0,6,6	-	-	-		
81	OHX	sR	1947	-	0,6,6	-	-	-		
81	OHX	AR	3685	-	0,6,6	-	-	-		
81	OHX	AR	3600	-	0,6,6	-	-	-		
81	OHX	AR	3527	-	0,6,6	-	-	-		
81	OHX	sR	1984	-	0,6,6	-	-	-		
81	OHX	1	3584	-	0,6,6	-	-	-		
81	OHX	AR	3428	-	0,6,6	-	-	-		
81	OHX	AR	3659	-	0,6,6	-	-	-		
81	OHX	1	3467[A]	-	0,5,6	-	-	-		
81	OHX	AS	3509	-	0,6,6	-	-	-		
81	OHX	1	3594	-	0,6,6	-	-	-		
81	OHX	AR	3462	-	0,6,6	-	-	-		
81	OHX	AR	3476	-	0,6,6	-	-	-		
81	OHX	AR	3661	-	0,6,6	-	-	-		
81	OHX	A	1905	-	0,6,6	-	-	-		
81	OHX	AR	3514	-	0,6,6	-	-	-		
81	OHX	A	2133	-	0,6,6	-	-	-		
81	OHX	A	1902	-	0,6,6	-	-	-		
81	OHX	sR	1969	-	0,6,6	-	-	-		
81	OHX	1	3444	-	0,6,6	-	-	-		
81	OHX	AS	3530	-	0,6,6	-	-	-		
81	OHX	AR	3445	-	0,6,6	-	-	-		
81	OHX	1	4103	-	0,6,6	-	-	-		
81	OHX	sR	1927	-	0,6,6	-	-	-		
81	OHX	AR	3509	-	0,6,6	-	-	-		
81	OHX	T	201	-	0,6,6	-	-	-		
81	OHX	A	1960	-	0,6,6	-	-	-		
81	OHX	1	3520	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	1	3581	-	0,6,6	-	-	-		
81	OHX	AR	3631	-	0,6,6	-	-	-		
81	OHX	CP	303	-	0,6,6	-	-	-		
81	OHX	4	208	-	0,6,6	-	-	-		
81	OHX	1	3590	-	0,6,6	-	-	-		
81	OHX	1	4096	-	0,6,6	-	-	-		
81	OHX	1	3517	-	0,6,6	-	-	-		
81	OHX	1	4121	-	0,6,6	-	-	-		
81	OHX	A	2130	-	0,6,6	-	-	-		
81	OHX	AR	3637	-	0,6,6	-	-	-		
81	OHX	AR	3503	-	0,6,6	-	-	-		
81	OHX	AR	3441	-	0,6,6	-	-	-		
81	OHX	AR	3468	-	0,6,6	-	-	-		
81	OHX	A	1918	-	0,6,6	-	-	-		
81	OHX	AR	3475	-	0,6,6	-	-	-		
81	OHX	A	2123	-	0,6,6	-	-	-		
81	OHX	AR	3559	-	0,6,6	-	-	-		
81	OHX	1	4111	-	0,6,6	-	-	-		
81	OHX	AR	3466	-	0,6,6	-	-	-		
81	OHX	1	3529	-	0,6,6	-	-	-		
81	OHX	1	4110	-	0,6,6	-	-	-		
81	OHX	1	3407	-	0,6,6	-	-	-		
81	OHX	4	212	-	0,6,6	-	-	-		
81	OHX	AR	3538	-	0,6,6	-	-	-		
81	OHX	AR	3592	-	0,5,6	-	-	-		
81	OHX	AR	3630	-	0,6,6	-	-	-		
81	OHX	c5	201	-	0,6,6	-	-	-		
81	OHX	A	1906	-	0,6,6	-	-	-		
81	OHX	1	3537	-	0,6,6	-	-	-		
81	OHX	AR	3666	-	0,6,6	-	-	-		
81	OHX	AR	3675	-	0,6,6	-	-	-		
81	OHX	AR	4179	-	0,6,6	-	-	-		
81	OHX	AT	214	-	0,6,6	-	-	-		
81	OHX	sR	1908	-	0,6,6	-	-	-		
81	OHX	1	3580	-	0,6,6	-	-	-		
81	OHX	1	4141	-	0,6,6	-	-	-		
81	OHX	AR	3443	-	0,6,6	-	-	-		
81	OHX	AR	3642	-	0,6,6	-	-	-		
81	OHX	sR	1944	-	0,6,6	-	-	-		
81	OHX	A	1936	-	0,6,6	-	-	-		
81	OHX	sR	2027	-	0,6,6	-	-	-		
84	XBI	AR	4222	-	28,28,28	0.66	1 (3%)	36,45,45	1.94	7 (19%)
81	OHX	A	1917	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	AR	3535	-	0,6,6	-	-	-		
81	OHX	A	2140	-	0,6,6	-	-	-		
81	OHX	A	1943	-	0,6,6	-	-	-		
81	OHX	AR	3568	-	0,6,6	-	-	-		
81	OHX	sR	1923	-	0,6,6	-	-	-		
81	OHX	AT	212	-	0,6,6	-	-	-		
81	OHX	A	1944	-	0,6,6	-	-	-		
81	OHX	AR	3611	-	0,6,6	-	-	-		
81	OHX	AR	3460	-	0,6,6	-	-	-		
81	OHX	sR	1935	-	0,6,6	-	-	-		
81	OHX	1	3565	-	0,6,6	-	-	-		
81	OHX	Q	201	-	0,6,6	-	-	-		
81	OHX	AR	3529	-	0,6,6	-	-	-		
81	OHX	1	3426	-	0,6,6	-	-	-		
81	OHX	1	3469	-	0,6,6	-	-	-		
81	OHX	A	2110	-	0,6,6	-	-	-		
81	OHX	sR	1939	-	0,6,6	-	-	-		
81	OHX	A	1973	-	0,6,6	-	-	-		
81	OHX	AR	3620	-	0,6,6	-	-	-		
81	OHX	AR	3678	-	0,6,6	-	-	-		
81	OHX	1	3530	-	0,6,6	-	-	-		
81	OHX	z	201	-	0,6,6	-	-	-		
81	OHX	AR	3635	-	0,6,6	-	-	-		
81	OHX	1	3561	-	0,6,6	-	-	-		
81	OHX	1	3588	-	0,6,6	-	-	-		
81	OHX	1	4107	-	0,6,6	-	-	-		
81	OHX	1	4132	-	0,6,6	-	-	-		
81	OHX	AR	3456	-	0,6,6	-	-	-		
81	OHX	AR	3551	-	0,6,6	-	-	-		
81	OHX	AR	3648	-	0,6,6	-	-	-		
81	OHX	1	3510	-	0,6,6	-	-	-		
81	OHX	AR	3482	-	0,6,6	-	-	-		
81	OHX	AR	3471	-	0,6,6	-	-	-		
81	OHX	AR	3606	-	0,6,6	-	-	-		
81	OHX	AR	4196	-	0,6,6	-	-	-		
81	OHX	AR	3555	-	0,6,6	-	-	-		
81	OHX	AR	3504	-	0,6,6	-	-	-		
81	OHX	A	2128	-	0,6,6	-	-	-		
81	OHX	sR	1924	-	0,6,6	-	-	-		
81	OHX	AR	4200	-	0,6,6	-	-	-		
81	OHX	AR	4203	-	0,6,6	-	-	-		
81	OHX	1	3512	-	0,6,6	-	-	-		
81	OHX	AR	3416	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	AR	3686	-	0,6,6	-	-	-		
81	OHX	AT	211	-	0,6,6	-	-	-		
81	OHX	1	4117	-	0,6,6	-	-	-		
81	OHX	CL	302[B]	-	0,6,6	-	-	-		
81	OHX	AR	3628	-	0,6,6	-	-	-		
81	OHX	A	1931	-	0,6,6	-	-	-		
81	OHX	AR	3455	-	0,6,6	-	-	-		
81	OHX	1	3526	-	0,6,6	-	-	-		
81	OHX	sR	1937	-	0,6,6	-	-	-		
81	OHX	1	3497	-	0,6,6	-	-	-		
81	OHX	1	3471	-	0,6,6	-	-	-		
81	OHX	1	4092	-	0,6,6	-	-	-		
81	OHX	sR	2171	-	0,6,6	-	-	-		
81	OHX	AT	216	-	0,6,6	-	-	-		
81	OHX	sR	2178	-	0,6,6	-	-	-		
81	OHX	A	1915	-	0,6,6	-	-	-		
81	OHX	1	3562	-	0,6,6	-	-	-		
81	OHX	1	3433	-	0,6,6	-	-	-		
81	OHX	sR	1919	-	0,6,6	-	-	-		
81	OHX	AR	3494	-	0,6,6	-	-	-		
81	OHX	sR	1978	-	0,6,6	-	-	-		
81	OHX	3	219	-	0,6,6	-	-	-		
81	OHX	1	3403	-	0,6,6	-	-	-		
81	OHX	1	3421	-	0,6,6	-	-	-		
81	OHX	AR	3625	-	0,6,6	-	-	-		
81	OHX	A	1904	-	0,6,6	-	-	-		
81	OHX	A	2127	-	0,6,6	-	-	-		
81	OHX	1	4139	-	0,6,6	-	-	-		
81	OHX	1	3542	-	0,6,6	-	-	-		
81	OHX	AR	3596	-	0,6,6	-	-	-		
81	OHX	A	1901	-	0,6,6	-	-	-		
81	OHX	1	3409	-	0,6,6	-	-	-		
81	OHX	AR	3539	-	0,6,6	-	-	-		
81	OHX	AR	3663	-	0,6,6	-	-	-		
81	OHX	3	202	-	0,6,6	-	-	-		
81	OHX	1	3605	-	0,6,6	-	-	-		
81	OHX	1	4100	-	0,6,6	-	-	-		
81	OHX	AR	3575	-	0,6,6	-	-	-		
81	OHX	CE	404	-	0,6,6	-	-	-		
81	OHX	1	3478	-	0,6,6	-	-	-		
81	OHX	AR	3414	-	0,6,6	-	-	-		
81	OHX	CX	202	-	0,6,6	-	-	-		
81	OHX	AR	3532	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	1	4140	-	0,6,6	-	-	-		
81	OHX	sR	1950[B]	-	0,6,6	-	-	-		
81	OHX	A	2134	-	0,6,6	-	-	-		
81	OHX	AR	3467	-	0,6,6	-	-	-		
81	OHX	AR	3546	-	0,6,6	-	-	-		
81	OHX	AR	3506	-	0,6,6	-	-	-		
81	OHX	sR	1976	-	0,6,6	-	-	-		
81	OHX	sR	2009	-	0,6,6	-	-	-		
81	OHX	AS	3504	-	0,6,6	-	-	-		
81	OHX	AR	3427	-	0,6,6	-	-	-		
81	OHX	1	3480	-	0,6,6	-	-	-		
81	OHX	AR	3421	-	0,6,6	-	-	-		
81	OHX	A	1932	-	0,6,6	-	-	-		
81	OHX	AR	3638	-	0,6,6	-	-	-		
81	OHX	A	1926	-	0,6,6	-	-	-		
81	OHX	AR	3406	-	0,6,6	-	-	-		
81	OHX	1	4119	-	0,6,6	-	-	-		
81	OHX	AT	215	-	0,6,6	-	-	-		
81	OHX	AR	3687[A]	-	0,6,6	-	-	-		
81	OHX	sR	1955	-	0,6,6	-	-	-		
81	OHX	sR	1992	-	0,6,6	-	-	-		
81	OHX	1	4138	-	0,6,6	-	-	-		
81	OHX	AR	3651	-	0,6,6	-	-	-		
81	OHX	1	4113	-	0,6,6	-	-	-		
81	OHX	AR	3569	-	0,6,6	-	-	-		
81	OHX	A	2124	-	0,6,6	-	-	-		
81	OHX	1	3523	-	0,6,6	-	-	-		
81	OHX	1	3566	-	0,6,6	-	-	-		
81	OHX	1	3573	-	0,6,6	-	-	-		
81	OHX	sR	1985	-	0,6,6	-	-	-		
81	OHX	1	3522	-	0,6,6	-	-	-		
81	OHX	sR	1983	-	0,6,6	-	-	-		
81	OHX	1	3535[A]	-	0,6,6	-	-	-		
81	OHX	AR	4195	-	0,6,6	-	-	-		
81	OHX	1	3415	-	0,6,6	-	-	-		
81	OHX	AR	3484	-	0,6,6	-	-	-		
81	OHX	AR	3444	-	0,6,6	-	-	-		
81	OHX	1	3446	-	0,6,6	-	-	-		
81	OHX	1	3563	-	0,6,6	-	-	-		
81	OHX	AR	3655	-	0,6,6	-	-	-		
81	OHX	sR	1994	-	0,6,6	-	-	-		
81	OHX	s8	302	-	0,6,6	-	-	-		
81	OHX	1	3445	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
81	OHX	AR	3526	-	0,6,6	-	-	-		
81	OHX	AR	3577	-	0,6,6	-	-	-		
81	OHX	AR	3573	-	0,6,6	-	-	-		
81	OHX	1	4118	-	0,6,6	-	-	-		
81	OHX	1	3420	-	0,6,6	-	-	-		
81	OHX	1	3509	-	0,6,6	-	-	-		
81	OHX	sR	2175	-	0,6,6	-	-	-		
81	OHX	AR	3448	-	0,6,6	-	-	-		
81	OHX	AR	3412	-	0,6,6	-	-	-		
81	OHX	sR	1933	-	0,6,6	-	-	-		
81	OHX	AR	3550	-	0,6,6	-	-	-		
81	OHX	1	3438	-	0,6,6	-	-	-		
81	OHX	1	4126	-	0,6,6	-	-	-		
81	OHX	AS	3506	-	0,6,6	-	-	-		
81	OHX	sR	1988	-	0,6,6	-	-	-		
81	OHX	CS	201	-	0,6,6	-	-	-		
81	OHX	1	3524	-	0,6,6	-	-	-		
81	OHX	A	1965	-	0,6,6	-	-	-		
81	OHX	A	1916	-	0,6,6	-	-	-		
81	OHX	sR	2021	-	0,6,6	-	-	-		
81	OHX	sR	1958	-	0,6,6	-	-	-		
81	OHX	AR	3457	-	0,6,6	-	-	-		
81	OHX	AR	3401	-	0,6,6	-	-	-		
81	OHX	sR	2003	-	0,6,6	-	-	-		
81	OHX	AT	202	-	0,6,6	-	-	-		
81	OHX	AR	3437	-	0,6,6	-	-	-		
81	OHX	AR	3650	-	0,6,6	-	-	-		
81	OHX	sR	1910	-	0,6,6	-	-	-		
81	OHX	AR	3653	-	0,6,6	-	-	-		
81	OHX	sR	1906	-	0,6,6	-	-	-		
81	OHX	AR	3644	-	0,6,6	-	-	-		
81	OHX	sR	1997	-	0,6,6	-	-	-		
81	OHX	s1	301	-	0,6,6	-	-	-		
81	OHX	1	3578	-	0,6,6	-	-	-		
81	OHX	AR	3584	-	0,6,6	-	-	-		
81	OHX	AR	3683	-	0,6,6	-	-	-		
81	OHX	sR	2016	-	0,6,6	-	-	-		
81	OHX	1	3491	-	0,6,6	-	-	-		
81	OHX	1	3423	-	0,6,6	-	-	-		
81	OHX	AR	3564	-	0,6,6	-	-	-		
81	OHX	AR	3615	-	0,6,6	-	-	-		
81	OHX	sR	1901	-	0,6,6	-	-	-		
81	OHX	AR	3572	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
81	OHX	AT	208	-	0,6,6	-	-	-		
81	OHX	sR	1948	-	0,6,6	-	-	-		
81	OHX	sR	2014	-	0,6,6	-	-	-		
81	OHX	AR	3498	-	0,6,6	-	-	-		
81	OHX	AR	3621	-	0,6,6	-	-	-		
81	OHX	AR	3581	-	0,6,6	-	-	-		
81	OHX	1	3462	-	0,6,6	-	-	-		
81	OHX	AR	3590	-	0,6,6	-	-	-		
81	OHX	1	3617	-	0,6,6	-	-	-		
81	OHX	1	4131	-	0,6,6	-	-	-		
81	OHX	AR	3480	-	0,6,6	-	-	-		
81	OHX	1	3473	-	0,6,6	-	-	-		
81	OHX	AR	3488	-	0,6,6	-	-	-		
83	SPD	1	4144	-	9,9,9	0.33	0	8,8,8	1.07	0
81	OHX	A	1953	-	0,6,6	-	-	-		
81	OHX	AR	3684	-	0,6,6	-	-	-		
81	OHX	AR	3508	-	0,6,6	-	-	-		
81	OHX	sR	1932	-	0,6,6	-	-	-		
81	OHX	AR	3585	-	0,6,6	-	-	-		
81	OHX	1	3547	-	0,6,6	-	-	-		
81	OHX	sR	1918	-	0,6,6	-	-	-		
81	OHX	1	4135	-	0,6,6	-	-	-		
81	OHX	3	222	-	0,6,6	-	-	-		
81	OHX	AR	4197	-	0,6,6	-	-	-		
81	OHX	A	2114	-	0,6,6	-	-	-		
81	OHX	1	3459	-	0,6,6	-	-	-		
81	OHX	AR	3459	-	0,6,6	-	-	-		
81	OHX	AR	3469	-	0,6,6	-	-	-		
81	OHX	AR	3576	-	0,6,6	-	-	-		
81	OHX	sR	1941	-	0,6,6	-	-	-		
81	OHX	AR	3658	-	0,6,6	-	-	-		
81	OHX	AR	3536	-	0,6,6	-	-	-		
81	OHX	A	1957	-	0,6,6	-	-	-		
83	SPD	AR	4206	-	9,9,9	0.32	0	8,8,8	0.90	0
81	OHX	1	3434	-	0,6,6	-	-	-		
81	OHX	1	3545	-	0,6,6	-	-	-		
81	OHX	AR	3513	-	0,6,6	-	-	-		
81	OHX	A	1941	-	0,6,6	-	-	-		
81	OHX	A	1933	-	0,6,6	-	-	-		
81	OHX	AR	3597	-	0,6,6	-	-	-		
81	OHX	1	3485[A]	-	0,6,6	-	-	-		
81	OHX	1	3493	-	0,6,6	-	-	-		
81	OHX	AR	3660	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
81	OHX	sR	1940	-	0,6,6	-	-	-		
81	OHX	1	3541	-	0,6,6	-	-	-		
81	OHX	sR	1920	-	0,6,6	-	-	-		
81	OHX	1	3585	-	0,6,6	-	-	-		
81	OHX	1	3463	-	0,6,6	-	-	-		
81	OHX	4	210	-	0,6,6	-	-	-		
81	OHX	AR	3548	-	0,6,6	-	-	-		
81	OHX	A	2119	-	0,6,6	-	-	-		
81	OHX	1	3508	-	0,6,6	-	-	-		
81	OHX	1	3432	-	0,6,6	-	-	-		
81	OHX	1	3430	-	0,6,6	-	-	-		
81	OHX	1	3614	-	0,6,6	-	-	-		
81	OHX	AR	3562	-	0,6,6	-	-	-		
81	OHX	sR	2172	-	0,6,6	-	-	-		
81	OHX	1	3552	-	0,6,6	-	-	-		
81	OHX	AR	3607	-	0,6,6	-	-	-		
81	OHX	4	207	-	0,6,6	-	-	-		
81	OHX	AR	3436	-	0,6,6	-	-	-		
81	OHX	AR	3530	-	0,6,6	-	-	-		
81	OHX	AR	3542	-	0,6,6	-	-	-		
81	OHX	sR	1911	-	0,6,6	-	-	-		
81	OHX	sR	1943	-	0,6,6	-	-	-		
81	OHX	AR	3646	-	0,6,6	-	-	-		
81	OHX	1	3460	-	0,6,6	-	-	-		
81	OHX	A	1938	-	0,6,6	-	-	-		
81	OHX	AR	3561	-	0,6,6	-	-	-		
81	OHX	A	1974	-	0,6,6	-	-	-		
81	OHX	sR	1965	-	0,6,6	-	-	-		
81	OHX	1	3440	-	0,6,6	-	-	-		
81	OHX	AR	3439	-	0,6,6	-	-	-		
81	OHX	AP	502	-	0,6,6	-	-	-		
81	OHX	AR	3543	-	0,6,6	-	-	-		
81	OHX	1	3486	-	0,6,6	-	-	-		
81	OHX	AR	3560	-	0,6,6	-	-	-		
81	OHX	AR	3430	-	0,6,6	-	-	-		
81	OHX	AR	3574	-	0,6,6	-	-	-		
81	OHX	O	201	-	0,6,6	-	-	-		
81	OHX	sR	1995	-	0,6,6	-	-	-		
81	OHX	1	3601	-	0,6,6	-	-	-		
81	OHX	A	1928	-	0,6,6	-	-	-		
81	OHX	sR	2000	-	0,6,6	-	-	-		
81	OHX	1	3474	-	0,6,6	-	-	-		
81	OHX	1	3405	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
81	OHX	4	202	-	0,6,6	-	-	-		
81	OHX	1	3449	-	0,6,6	-	-	-		
81	OHX	AR	3474	-	0,6,6	-	-	-		
81	OHX	sR	1949	-	0,6,6	-	-	-		
81	OHX	sR	1960	-	0,6,6	-	-	-		
81	OHX	AR	4205	-	0,5,6	-	-	-		
81	OHX	AR	3512	-	0,6,6	-	-	-		
81	OHX	AR	3627	-	0,6,6	-	-	-		
81	OHX	1	4129	-	0,6,6	-	-	-		
81	OHX	AR	3501	-	0,6,6	-	-	-		
81	OHX	AR	4204	-	0,6,6	-	-	-		
81	OHX	1	3479	-	0,6,6	-	-	-		
81	OHX	1	3604	-	0,6,6	-	-	-		
81	OHX	AR	3511[B]	-	0,6,6	-	-	-		
81	OHX	AR	3547	-	0,6,6	-	-	-		
81	OHX	AR	3619	-	0,6,6	-	-	-		
81	OHX	sR	2020	-	0,6,6	-	-	-		
81	OHX	AR	3534	-	0,6,6	-	-	-		
81	OHX	1	3612	-	0,6,6	-	-	-		
81	OHX	AR	3688	-	0,6,6	-	-	-		
81	OHX	DD	101	-	0,6,6	-	-	-		
81	OHX	sR	2168	-	0,6,6	-	-	-		
81	OHX	AR	3570	-	0,6,6	-	-	-		
81	OHX	d0	201	-	0,6,6	-	-	-		
81	OHX	AS	3507	-	0,6,6	-	-	-		
81	OHX	1	3402	-	0,6,6	-	-	-		
81	OHX	AR	3438	-	0,6,6	-	-	-		
81	OHX	AR	3679	-	0,6,6	-	-	-		
81	OHX	AT	213	-	0,6,6	-	-	-		
81	OHX	AR	3566	-	0,6,6	-	-	-		
81	OHX	sR	1916[A]	-	0,6,6	-	-	-		
81	OHX	1	3468	-	0,6,6	-	-	-		
81	OHX	1	3416	-	0,6,6	-	-	-		
81	OHX	1	3464	-	0,6,6	-	-	-		
81	OHX	AR	3582	-	0,6,6	-	-	-		
81	OHX	1	3485[B]	-	0,6,6	-	-	-		
81	OHX	AS	3503	-	0,6,6	-	-	-		
81	OHX	1	4136	-	0,6,6	-	-	-		
81	OHX	CL	302[A]	-	0,6,6	-	-	-		
81	OHX	AR	3409	-	0,6,6	-	-	-		
81	OHX	1	3602	-	0,6,6	-	-	-		
81	OHX	1	3577	-	0,6,6	-	-	-		
81	OHX	4	201	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	sR	2010	-	0,6,6	-	-	-		
81	OHX	1	3442	-	0,6,6	-	-	-		
81	OHX	1	3490	-	0,6,6	-	-	-		
81	OHX	1	3494	-	0,6,6	-	-	-		
81	OHX	AR	3489	-	0,6,6	-	-	-		
81	OHX	CL	301	-	0,6,6	-	-	-		
81	OHX	sR	1966	-	0,6,6	-	-	-		
81	OHX	A	2142	-	0,6,6	-	-	-		
81	OHX	1	4089	-	0,6,6	-	-	-		
81	OHX	1	3451	-	0,6,6	-	-	-		
81	OHX	AR	3682	-	0,6,6	-	-	-		
81	OHX	sR	2011	-	0,6,6	-	-	-		
81	OHX	AR	3594	-	0,6,6	-	-	-		
81	OHX	sR	1945	-	0,6,6	-	-	-		
81	OHX	sR	2018	-	0,5,6	-	-	-		
81	OHX	sR	1991	-	0,6,6	-	-	-		
81	OHX	AR	3440	-	0,6,6	-	-	-		
81	OHX	AR	3492	-	0,6,6	-	-	-		
81	OHX	1	3401	-	0,6,6	-	-	-		
81	OHX	AR	3652	-	0,6,6	-	-	-		
81	OHX	3	204	-	0,6,6	-	-	-		
81	OHX	1	3519[B]	-	0,6,6	-	-	-		
81	OHX	AR	4202	-	0,6,6	-	-	-		
81	OHX	sR	1950[A]	-	0,6,6	-	-	-		
81	OHX	AR	3520	-	0,6,6	-	-	-		
81	OHX	sR	2007	-	0,6,6	-	-	-		
81	OHX	sR	1912	-	0,6,6	-	-	-		
81	OHX	AR	3523	-	0,6,6	-	-	-		
81	OHX	4	215	-	0,6,6	-	-	-		
81	OHX	A	1948	81	0,6,6	-	-	-		
81	OHX	AR	3423	-	0,6,6	-	-	-		
81	OHX	1	3408	-	0,6,6	-	-	-		
81	OHX	AR	4198	-	0,6,6	-	-	-		
81	OHX	1	3475	-	0,6,6	-	-	-		
81	OHX	A	2103	-	0,6,6	-	-	-		
81	OHX	1	3424	-	0,6,6	-	-	-		
81	OHX	CP	301	-	0,6,6	-	-	-		
81	OHX	sR	1973	-	0,6,6	-	-	-		
81	OHX	AR	3418	-	0,6,6	-	-	-		
81	OHX	AR	3643	-	0,6,6	-	-	-		
81	OHX	AR	3599	-	0,6,6	-	-	-		
81	OHX	AR	3453	-	0,6,6	-	-	-		
81	OHX	AR	3563	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	1	3586	-	0,6,6	-	-	-		
81	OHX	DK	201	-	0,6,6	-	-	-		
81	OHX	AR	3434	-	0,6,6	-	-	-		
81	OHX	sR	1916[B]	-	0,6,6	-	-	-		
81	OHX	A	1935	-	0,6,6	-	-	-		
81	OHX	sR	1904	-	0,6,6	-	-	-		
81	OHX	sR	2025	-	0,6,6	-	-	-		
81	OHX	sR	2169	-	0,6,6	-	-	-		
81	OHX	AR	3477	-	0,6,6	-	-	-		
81	OHX	A	1939	-	0,6,6	-	-	-		
81	OHX	1	3598	-	0,6,6	-	-	-		
81	OHX	1	3609	-	0,6,6	-	-	-		
81	OHX	1	3417	-	0,6,6	-	-	-		
81	OHX	sR	1980	-	0,6,6	-	-	-		
81	OHX	sR	2022	-	0,6,6	-	-	-		
81	OHX	1	3487	-	0,6,6	-	-	-		
81	OHX	CG	302	-	0,6,6	-	-	-		
81	OHX	AR	3677	-	0,6,6	-	-	-		
81	OHX	sR	1954	-	0,6,6	-	-	-		
81	OHX	1	4094	-	0,6,6	-	-	-		
81	OHX	1	3550	-	0,6,6	-	-	-		
81	OHX	sR	1968	-	0,6,6	-	-	-		
81	OHX	1	3567	-	0,6,6	-	-	-		
81	OHX	4	205	-	0,6,6	-	-	-		
81	OHX	A	2126	-	0,6,6	-	-	-		
81	OHX	sR	1913	-	0,6,6	-	-	-		
81	OHX	sR	1946	-	0,6,6	-	-	-		
81	OHX	A	1913	-	0,6,6	-	-	-		
81	OHX	sR	1970	-	0,6,6	-	-	-		
81	OHX	AR	3552	-	0,6,6	-	-	-		
81	OHX	AR	3588	-	0,6,6	-	-	-		
81	OHX	A	1947	-	0,6,6	-	-	-		
81	OHX	1	3571	-	0,6,6	-	-	-		
81	OHX	1	3507	-	0,6,6	-	-	-		
81	OHX	1	3500	-	0,6,6	-	-	-		
81	OHX	sR	1922	-	0,6,6	-	-	-		
81	OHX	1	4101	-	0,6,6	-	-	-		
81	OHX	1	3472	-	0,6,6	-	-	-		
81	OHX	1	3476	-	0,6,6	-	-	-		
81	OHX	AR	3665	-	0,6,6	-	-	-		
81	OHX	3	206	-	0,6,6	-	-	-		
81	OHX	sR	1962	-	0,6,6	-	-	-		
81	OHX	AR	3591	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
81	OHX	AR	3641	-	0,6,6	-	-	-		
81	OHX	sR	1961	-	0,6,6	-	-	-		
81	OHX	3	203	-	0,6,6	-	-	-		
81	OHX	1	3406	-	0,6,6	-	-	-		
81	OHX	AR	3571	-	0,6,6	-	-	-		
81	OHX	1	3553	-	0,6,6	-	-	-		
81	OHX	sR	1953	-	0,6,6	-	-	-		
81	OHX	AR	3507	-	0,6,6	-	-	-		
81	OHX	1	3525	-	0,6,6	-	-	-		
81	OHX	1	4143	-	0,6,6	-	-	-		
81	OHX	AR	3473	-	0,6,6	-	-	-		
81	OHX	1	3574	-	0,6,6	-	-	-		
81	OHX	1	3422	-	0,6,6	-	-	-		
81	OHX	1	4076	-	0,6,6	-	-	-		
81	OHX	AR	3601	-	0,6,6	-	-	-		
81	OHX	1	3413	-	0,6,6	-	-	-		
81	OHX	1	3544	-	0,6,6	-	-	-		
81	OHX	AR	3657	-	0,6,6	-	-	-		
81	OHX	AR	3580	-	0,6,6	-	-	-		
81	OHX	AR	3449	-	0,6,6	-	-	-		
81	OHX	AR	3632	-	0,6,6	-	-	-		
81	OHX	1	3589	-	0,6,6	-	-	-		
81	OHX	1	3458	-	0,6,6	-	-	-		
81	OHX	AS	3505	-	0,6,6	-	-	-		
81	OHX	1	4071	-	0,6,6	-	-	-		
81	OHX	sR	1957	-	0,6,6	-	-	-		
81	OHX	1	3543	-	0,6,6	-	-	-		
81	OHX	1	3556	-	0,6,6	-	-	-		
81	OHX	s4	301	-	0,6,6	-	-	-		
81	OHX	1	3410	-	0,6,6	-	-	-		
81	OHX	sR	1903	-	0,6,6	-	-	-		
81	OHX	1	3608[B]	-	0,6,6	-	-	-		
81	OHX	sR	2174	-	0,6,6	-	-	-		
81	OHX	AR	3442	-	0,6,6	-	-	-		
81	OHX	A	1962	-	0,6,6	-	-	-		
81	OHX	AR	3605	-	0,6,6	-	-	-		
81	OHX	AR	4201	-	0,6,6	-	-	-		
81	OHX	AC	101	-	0,6,6	-	-	-		
81	OHX	AR	3623	-	0,6,6	-	-	-		
81	OHX	A	1909	-	0,6,6	-	-	-		
81	OHX	AR	3402	-	0,6,6	-	-	-		
81	OHX	1	4087	-	0,6,6	-	-	-		
81	OHX	AR	3541	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	1	4072	-	0,6,6	-	-	-		
81	OHX	1	3501	-	0,6,6	-	-	-		
81	OHX	AR	3614	-	0,6,6	-	-	-		
81	OHX	CG	303	-	0,6,6	-	-	-		
81	OHX	1	3418	-	0,6,6	-	-	-		
81	OHX	sR	2024	-	0,6,6	-	-	-		
81	OHX	A	2106	-	0,6,6	-	-	-		
81	OHX	DQ	502	-	0,6,6	-	-	-		
81	OHX	1	3483	-	0,6,6	-	-	-		
81	OHX	sR	2019	-	0,6,6	-	-	-		
81	OHX	AR	3486	-	0,6,6	-	-	-		
81	OHX	1	3533	-	0,6,6	-	-	-		
81	OHX	1	3429	-	0,6,6	-	-	-		
81	OHX	1	4125	-	0,6,6	-	-	-		
81	OHX	A	1966	-	0,6,6	-	-	-		
81	OHX	AR	3667	-	0,6,6	-	-	-		
81	OHX	3	221	-	0,6,6	-	-	-		
81	OHX	k	402	-	0,6,6	-	-	-		
81	OHX	A	2115	-	0,6,6	-	-	-		
81	OHX	1	4104	-	0,6,6	-	-	-		
81	OHX	AR	3405	-	0,6,6	-	-	-		
81	OHX	sR	1986	-	0,6,6	-	-	-		
81	OHX	sR	1999	-	0,6,6	-	-	-		
81	OHX	1	4090	-	0,5,6	-	-	-		
81	OHX	1	3454	-	0,6,6	-	-	-		
81	OHX	1	3592	-	0,6,6	-	-	-		
81	OHX	AR	3565	-	0,6,6	-	-	-		
81	OHX	sR	2028	-	0,6,6	-	-	-		
81	OHX	1	3481	-	0,6,6	-	-	-		
81	OHX	AR	3604	-	0,6,6	-	-	-		
81	OHX	J	301	-	0,6,6	-	-	-		
81	OHX	4	235	-	0,6,6	-	-	-		
81	OHX	CG	301	-	0,5,6	-	-	-		
81	OHX	AR	3422	-	0,6,6	-	-	-		
81	OHX	A	1927	-	0,6,6	-	-	-		
81	OHX	A	1949	-	0,6,6	-	-	-		
81	OHX	1	3540	-	0,6,6	-	-	-		
81	OHX	1	4127	-	0,6,6	-	-	-		
81	OHX	1	3521	-	0,6,6	-	-	-		
81	OHX	AT	203	-	0,6,6	-	-	-		
81	OHX	AR	3403	-	0,6,6	-	-	-		
81	OHX	1	3455	-	0,6,6	-	-	-		
81	OHX	sR	1907	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	AT	210	-	0,6,6	-	-	-		
81	OHX	3	201	-	0,6,6	-	-	-		
81	OHX	A	2112	-	0,6,6	-	-	-		
81	OHX	AR	3461	-	0,6,6	-	-	-		
81	OHX	CQ	202	-	0,6,6	-	-	-		
81	OHX	sR	1967	-	0,6,6	-	-	-		
81	OHX	1	3531	-	0,6,6	-	-	-		
81	OHX	sR	2006	-	0,6,6	-	-	-		
81	OHX	1	4115	-	0,6,6	-	-	-		
81	OHX	AR	3511[A]	-	0,6,6	-	-	-		
81	OHX	sR	1975	-	0,6,6	-	-	-		
81	OHX	1	3610	-	0,6,6	-	-	-		
81	OHX	A	1955	-	0,6,6	-	-	-		
81	OHX	sR	1979	-	0,6,6	-	-	-		
81	OHX	sR	1925	-	0,6,6	-	-	-		
81	OHX	1	3503	-	0,6,6	-	-	-		
81	OHX	1	4114	-	0,6,6	-	-	-		
81	OHX	AR	3499	-	0,6,6	-	-	-		
81	OHX	AR	3478[A]	-	0,6,6	-	-	-		
81	OHX	1	3559	-	0,6,6	-	-	-		
81	OHX	1	3516	-	0,6,6	-	-	-		
81	OHX	sR	2026	-	0,6,6	-	-	-		
81	OHX	AG	202	-	0,6,6	-	-	-		
81	OHX	AR	3451	-	0,6,6	-	-	-		
81	OHX	AR	3609	-	0,6,6	-	-	-		
81	OHX	A	1968	-	0,6,6	-	-	-		
81	OHX	A	2100	-	0,6,6	-	-	-		
81	OHX	A	2125	-	0,6,6	-	-	-		
81	OHX	sR	2013	-	0,6,6	-	-	-		
81	OHX	sR	2177	-	0,6,6	-	-	-		
81	OHX	1	4088	-	0,6,6	-	-	-		
81	OHX	1	4106	-	0,6,6	-	-	-		
81	OHX	1	3506	-	0,6,6	-	-	-		
81	OHX	A	2111	-	0,6,6	-	-	-		
81	OHX	A	2129	-	0,6,6	-	-	-		
81	OHX	A	2118	-	0,6,6	-	-	-		
81	OHX	1	3613	-	0,6,6	-	-	-		
81	OHX	AR	3518	-	0,6,6	-	-	-		
81	OHX	AR	3425	-	0,6,6	-	-	-		
81	OHX	AR	3668	-	0,6,6	-	-	-		
81	OHX	1	3489	-	0,6,6	-	-	-		
81	OHX	1	3505	-	0,6,6	-	-	-		
81	OHX	AS	3510	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	sR	1921	-	0,6,6	-	-	-		
81	OHX	AT	206	-	0,6,6	-	-	-		
81	OHX	A	1967	-	0,6,6	-	-	-		
81	OHX	sR	1926	-	0,6,6	-	-	-		
81	OHX	sR	1977	-	0,6,6	-	-	-		
81	OHX	1	3470	-	0,6,6	-	-	-		
81	OHX	AR	3408	-	0,6,6	-	-	-		
81	OHX	4	211	-	0,6,6	-	-	-		
81	OHX	AR	3446	-	0,6,6	-	-	-		
81	OHX	1	3419	-	0,6,6	-	-	-		
81	OHX	AR	3505	-	0,6,6	-	-	-		
81	OHX	sR	2173	-	0,6,6	-	-	-		
81	OHX	AR	3472	-	0,6,6	-	-	-		
81	OHX	AR	3519	-	0,6,6	-	-	-		
81	OHX	1	3514	-	0,6,6	-	-	-		
81	OHX	1	3519[A]	-	0,6,6	-	-	-		
81	OHX	AR	3587	-	0,6,6	-	-	-		
81	OHX	A	1920	-	0,6,6	-	-	-		
81	OHX	AR	3672	-	0,6,6	-	-	-		
81	OHX	AR	3626	-	0,6,6	-	-	-		
81	OHX	1	3495	-	0,6,6	-	-	-		
81	OHX	1	4133	-	0,6,6	-	-	-		
81	OHX	1	3450	-	0,6,6	-	-	-		
81	OHX	1	3465	-	0,6,6	-	-	-		
81	OHX	1	3570	-	0,6,6	-	-	-		
81	OHX	sR	1928	-	0,6,6	-	-	-		
81	OHX	sR	1987	-	0,6,6	-	-	-		
81	OHX	1	3412	-	0,6,6	-	-	-		
81	OHX	4	206	-	0,6,6	-	-	-		
81	OHX	AS	3508	-	0,6,6	-	-	-		
81	OHX	AR	3598	-	0,6,6	-	-	-		
81	OHX	AR	3671	-	0,6,6	-	-	-		
81	OHX	1	4108	-	0,6,6	-	-	-		
81	OHX	A	1911	-	0,6,6	-	-	-		
81	OHX	1	3452	-	0,6,6	-	-	-		
81	OHX	1	3496	-	0,6,6	-	-	-		
81	OHX	AR	3470	-	0,6,6	-	-	-		
81	OHX	AR	3478[B]	-	0,6,6	-	-	-		
81	OHX	AR	3680	-	0,6,6	-	-	-		
81	OHX	c8	201	-	0,6,6	-	-	-		
81	OHX	A	1971	-	0,6,6	-	-	-		
81	OHX	AR	3589	-	0,5,6	-	-	-		
81	OHX	1	3593	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\| > 2$	Counts	RMSZ	$\#\|Z\| > 2$
81	OHX	1	3477	-	0,6,6	-	-	-		
81	OHX	1	3538	-	0,6,6	-	-	-		
81	OHX	1	3457	-	0,6,6	-	-	-		
81	OHX	A	1975	-	0,6,6	-	-	-		
81	OHX	A	2107	-	0,6,6	-	-	-		
81	OHX	sR	1998	-	0,6,6	-	-	-		
81	OHX	AT	201	-	0,6,6	-	-	-		
81	OHX	DL	102	-	0,6,6	-	-	-		
81	OHX	A	2116	-	0,6,6	-	-	-		
81	OHX	AR	3674	-	0,6,6	-	-	-		
81	OHX	A	2113	-	0,6,6	-	-	-		
81	OHX	A	2117	-	0,6,6	-	-	-		
81	OHX	AR	3435	-	0,6,6	-	-	-		
81	OHX	sR	1993	-	0,6,6	-	-	-		
81	OHX	1	3564	-	0,6,6	-	-	-		
81	OHX	sR	1990	-	0,6,6	-	-	-		
81	OHX	1	4128	-	0,6,6	-	-	-		
81	OHX	1	3575	-	0,6,6	-	-	-		
81	OHX	A	1959	-	0,6,6	-	-	-		
81	OHX	sR	2015	-	0,6,6	-	-	-		
81	OHX	AR	3617	-	0,6,6	-	-	-		
81	OHX	1	4095	-	0,6,6	-	-	-		
81	OHX	sR	1936	-	0,6,6	-	-	-		
81	OHX	AR	3495	-	0,6,6	-	-	-		
81	OHX	1	3532	-	0,6,6	-	-	-		
81	OHX	CK	201	-	0,6,6	-	-	-		
81	OHX	3	220	-	0,6,6	-	-	-		
81	OHX	sR	2012	-	0,6,6	-	-	-		
81	OHX	AR	3553	-	0,6,6	-	-	-		
81	OHX	A	1914	-	0,6,6	-	-	-		
81	OHX	AR	3525	-	0,6,6	-	-	-		
81	OHX	AS	3501	-	0,6,6	-	-	-		
81	OHX	sR	2176	-	0,6,6	-	-	-		
81	OHX	1	4068	-	0,6,6	-	-	-		
81	OHX	1	3427	-	0,6,6	-	-	-		
81	OHX	AR	3676	-	0,6,6	-	-	-		
81	OHX	A	1961	-	0,6,6	-	-	-		
81	OHX	AR	3533	-	0,6,6	-	-	-		
81	OHX	1	3488	-	0,6,6	-	-	-		
81	OHX	1	4109	-	0,6,6	-	-	-		
81	OHX	AR	3578	-	0,6,6	-	-	-		
81	OHX	AR	3618	-	0,6,6	-	-	-		
81	OHX	A	1940	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	AR	3491	-	0,6,6	-	-	-		
81	OHX	AR	3544	-	0,6,6	-	-	-		
81	OHX	sR	1917	-	0,6,6	-	-	-		
81	OHX	AR	3465	-	0,6,6	-	-	-		
81	OHX	AR	3521	-	0,6,6	-	-	-		
81	OHX	sR	1971	-	0,6,6	-	-	-		
81	OHX	1	3518	-	0,6,6	-	-	-		
81	OHX	1	3606	-	0,6,6	-	-	-		
81	OHX	1	4134	-	0,4,6	-	-	-		
81	OHX	1	4137	-	0,6,6	-	-	-		
81	OHX	AR	3458	-	0,6,6	-	-	-		
81	OHX	1	4130	-	0,6,6	-	-	-		
81	OHX	AR	3464	-	0,6,6	-	-	-		
81	OHX	A	2132	-	0,6,6	-	-	-		
81	OHX	sR	1934	-	0,6,6	-	-	-		
81	OHX	AR	3556	-	0,6,6	-	-	-		
81	OHX	AR	3481	-	0,6,6	-	-	-		
81	OHX	A	2144	-	0,6,6	-	-	-		
81	OHX	1	3437	-	0,6,6	-	-	-		
81	OHX	1	3515	-	0,6,6	-	-	-		
81	OHX	1	3554	-	0,6,6	-	-	-		
81	OHX	AR	3496	-	0,6,6	-	-	-		
81	OHX	1	4120	-	0,5,6	-	-	-		
81	OHX	AR	3670	-	0,6,6	-	-	-		
81	OHX	AR	3540	-	0,6,6	-	-	-		
81	OHX	AT	207	-	0,6,6	-	-	-		
81	OHX	l	402	-	0,6,6	-	-	-		
81	OHX	AR	3490	-	0,6,6	-	-	-		
81	OHX	1	3404	-	0,6,6	-	-	-		
81	OHX	1	3597	-	0,6,6	-	-	-		
81	OHX	sR	1909	-	0,6,6	-	-	-		
81	OHX	A	1930	-	0,6,6	-	-	-		
81	OHX	AR	3654	-	0,6,6	-	-	-		
81	OHX	1	3615	-	0,6,6	-	-	-		
81	OHX	1	3603	-	0,6,6	-	-	-		
81	OHX	A	1908	-	0,6,6	-	-	-		
81	OHX	1	3572	-	0,6,6	-	-	-		
81	OHX	1	4123	-	0,6,6	-	-	-		
81	OHX	1	3549	-	0,6,6	-	-	-		
81	OHX	1	3448	-	0,6,6	-	-	-		
81	OHX	A	1912	-	0,6,6	-	-	-		
81	OHX	AR	3510	-	0,6,6	-	-	-		
81	OHX	1	3608[A]	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	1	3579	-	0,6,6	-	-	-		
81	OHX	1	3467[B]	-	0,5,6	-	-	-		
81	OHX	sR	2170	-	0,6,6	-	-	-		
81	OHX	AR	3515	-	0,6,6	-	-	-		
81	OHX	A	2139	-	0,6,6	-	-	-		
81	OHX	1	3498	-	0,6,6	-	-	-		
81	OHX	sR	1972	-	0,6,6	-	-	-		
81	OHX	sR	1952	-	0,6,6	-	-	-		
81	OHX	1	3600	-	0,6,6	-	-	-		
81	OHX	4	214	-	0,6,6	-	-	-		
81	OHX	AR	3429	-	0,6,6	-	-	-		
81	OHX	1	3551	-	0,6,6	-	-	-		
81	OHX	1	3414	-	0,6,6	-	-	-		
81	OHX	1	3583	-	0,6,6	-	-	-		
81	OHX	1	3560	-	0,6,6	-	-	-		
81	OHX	AR	3583	-	0,6,6	-	-	-		
81	OHX	A	1970	-	0,6,6	-	-	-		
81	OHX	1	3528	-	0,6,6	-	-	-		
81	OHX	1	4112	-	0,6,6	-	-	-		
81	OHX	AR	3493	-	0,6,6	-	-	-		
81	OHX	1	3447	-	0,6,6	-	-	-		
81	OHX	1	3482[A]	-	0,6,6	-	-	-		
81	OHX	AR	3424	-	0,6,6	-	-	-		
81	OHX	AR	3479	-	0,6,6	-	-	-		
81	OHX	sR	1931	-	0,6,6	-	-	-		
81	OHX	AR	3463	-	0,6,6	-	-	-		
81	OHX	AR	3454	-	0,6,6	-	-	-		
81	OHX	1	3576	-	0,6,6	-	-	-		
81	OHX	1	3499	-	0,6,6	-	-	-		
81	OHX	z	203	-	0,6,6	-	-	-		
81	OHX	AR	3447	-	0,6,6	-	-	-		
81	OHX	sR	1989	-	0,6,6	-	-	-		
81	OHX	AR	3432	-	0,6,6	-	-	-		
81	OHX	1	4105	-	0,5,6	-	-	-		
81	OHX	A	2104	-	0,6,6	-	-	-		
81	OHX	AR	3664	-	0,6,6	-	-	-		
81	OHX	A	2131	-	0,6,6	-	-	-		
81	OHX	AR	3662	-	0,6,6	-	-	-		
81	OHX	A	2145	-	0,6,6	-	-	-		
81	OHX	A	2137	-	0,6,6	-	-	-		
81	OHX	sR	1915	-	0,6,6	-	-	-		
81	OHX	A	2135	-	0,6,6	-	-	-		
81	OHX	1	3557	-	0,6,6	-	-	-		

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\#\|Z\|>2$	Counts	RMSZ	$\#\|Z\|>2$
81	OHX	1	4122	-	0,6,6	-	-	-		
81	OHX	1	3569	-	0,6,6	-	-	-		
81	OHX	1	4098	-	0,6,6	-	-	-		
81	OHX	sR	2002	-	0,6,6	-	-	-		
81	OHX	A	1929	-	0,6,6	-	-	-		
81	OHX	1	3431	-	0,6,6	-	-	-		
81	OHX	sR	2005	-	0,6,6	-	-	-		
81	OHX	AR	3531	-	0,6,6	-	-	-		
81	OHX	sR	1982	-	0,6,6	-	-	-		
81	OHX	1	3411	-	0,6,6	-	-	-		
81	OHX	AR	3595	-	0,6,6	-	-	-		
81	OHX	1	3484	-	0,6,6	-	-	-		
81	OHX	1	3511	-	0,6,6	-	-	-		
81	OHX	AR	3485	-	0,6,6	-	-	-		
81	OHX	A	1934	-	0,6,6	-	-	-		
81	OHX	1	3466	-	0,6,6	-	-	-		
81	OHX	A	1969	-	0,6,6	-	-	-		
81	OHX	1	3461	-	0,6,6	-	-	-		
81	OHX	sR	1938	-	0,6,6	-	-	-		
81	OHX	AR	3616	-	0,6,6	-	-	-		
81	OHX	AR	3669	-	0,6,6	-	-	-		
81	OHX	AR	3516	-	0,6,6	-	-	-		
81	OHX	AR	3545	-	0,6,6	-	-	-		
81	OHX	AR	3612	-	0,6,6	-	-	-		
81	OHX	1	3443	-	0,6,6	-	-	-		
81	OHX	AR	3524	-	0,6,6	-	-	-		
81	OHX	sR	1996	-	0,6,6	-	-	-		
81	OHX	A	1954	-	0,6,6	-	-	-		
81	OHX	AR	3431	-	0,6,6	-	-	-		
81	OHX	sR	1963	-	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
83	SPD	1	4144	-	-	0/7/7/7	-
84	XBI	1	4157	-	-	0/8/60/60	0/3/3/3
84	XBI	AR	4222	-	-	2/8/60/60	0/3/3/3
83	SPD	AR	4206	-	-	0/7/7/7	-

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
84	AR	4222	XBI	C1-C10	-2.57	1.52	1.56

All (14) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
84	1	4157	XBI	C1-C10-C5	-8.72	106.84	116.78
84	AR	4222	XBI	C1-C10-C5	-6.70	109.14	116.78
84	1	4157	XBI	C21-C1-C2	-4.51	100.89	109.44
84	1	4157	XBI	C2-C1-C10	4.46	112.89	108.81
84	AR	4222	XBI	C2-C1-C10	4.24	112.69	108.81
84	AR	4222	XBI	C21-C1-C2	-4.12	101.63	109.44
84	1	4157	XBI	C-C1-C21	-4.01	101.99	107.89
84	AR	4222	XBI	C-C1-C21	-3.77	102.33	107.89
84	1	4157	XBI	C-C1-C2	3.17	115.45	109.44
84	1	4157	XBI	C21-C1-C10	-3.10	102.16	111.53
84	AR	4222	XBI	C-C1-C2	3.07	115.25	109.44
84	AR	4222	XBI	C21-C1-C10	-3.05	102.33	111.53
84	1	4157	XBI	C-C1-C10	2.68	119.64	111.53
84	AR	4222	XBI	C-C1-C10	2.54	119.20	111.53

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
84	AR	4222	XBI	C6-C13-C14-O3
84	AR	4222	XBI	C6-C13-C14-C15

There are no ring outliers.

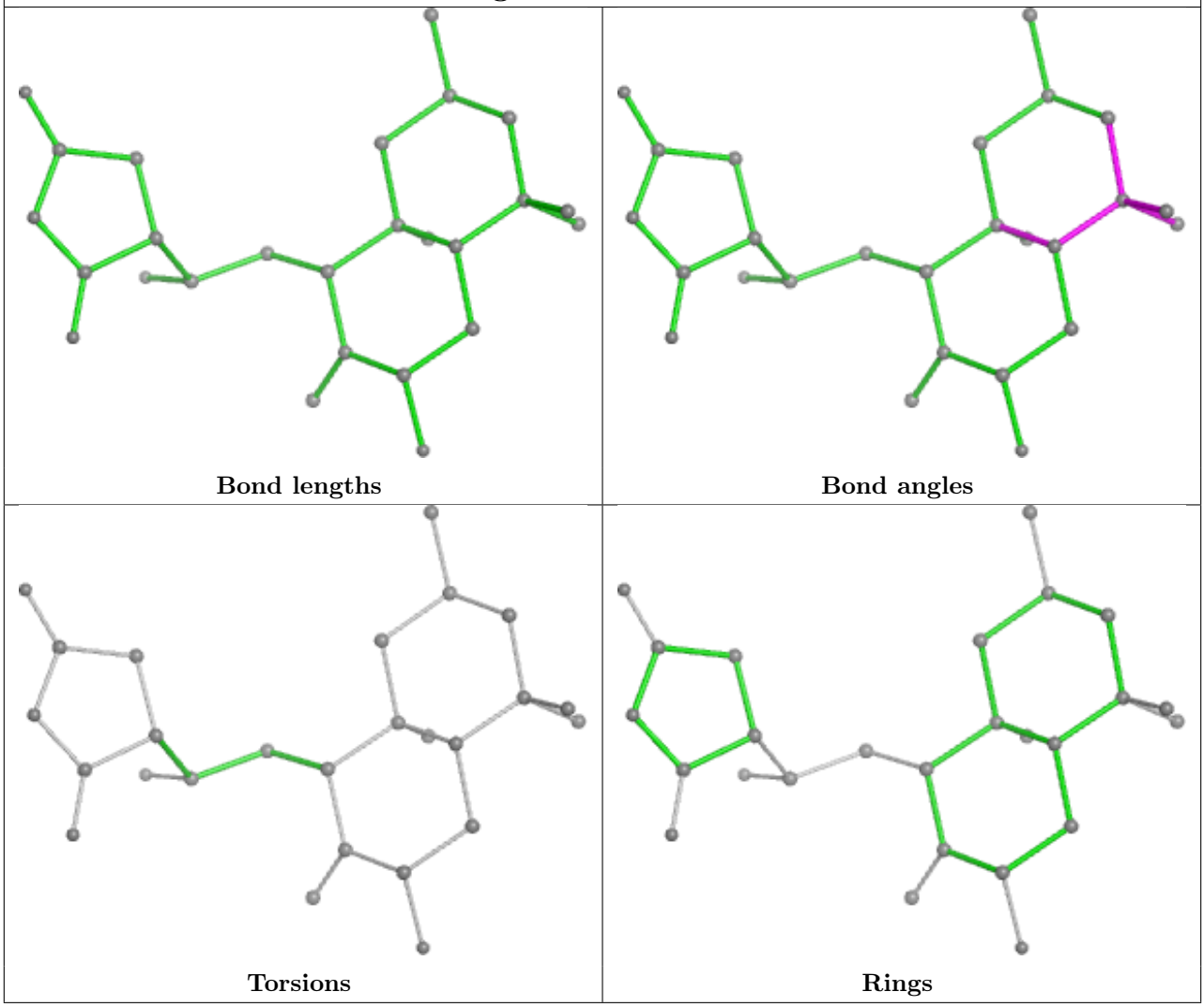
2 monomers are involved in 2 short contacts:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
81	T	201	OHX	0	1
81	CK	201	OHX	0	1

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.

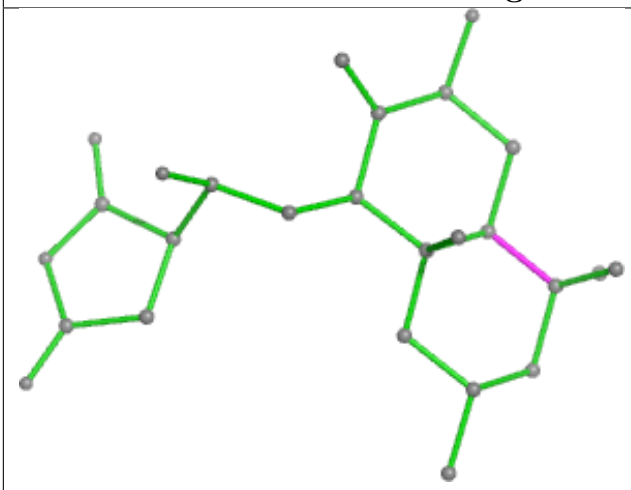
Ligand XBI 1 4157



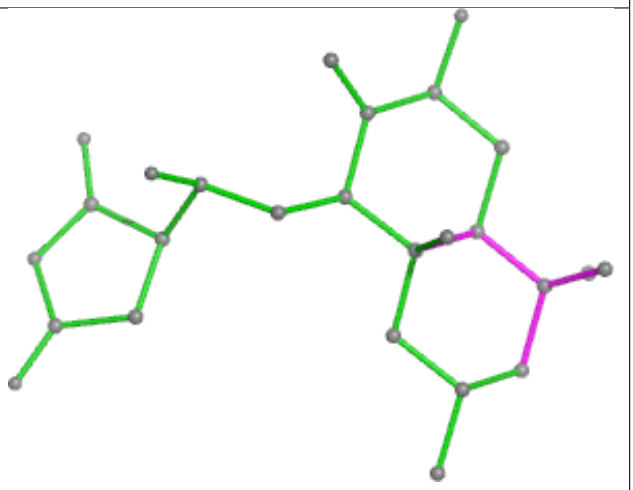
Bond lengths | **Bond angles**

Torsions | **Rings**

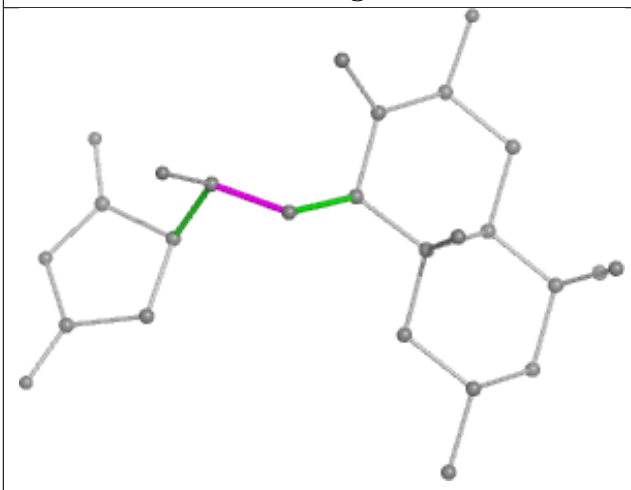
Ligand XBI AR 4222



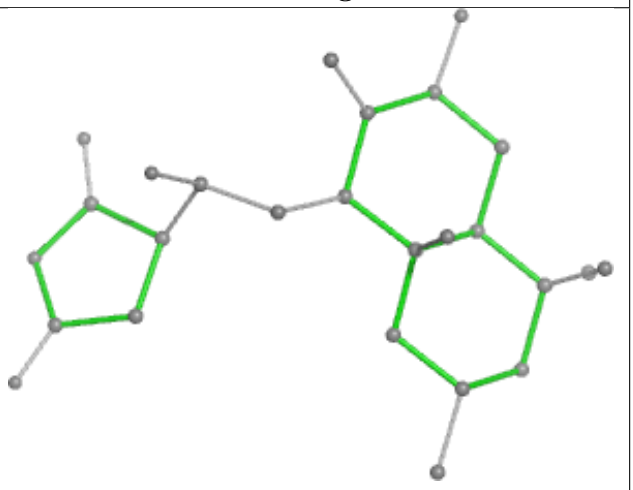
Bond lengths



Bond angles

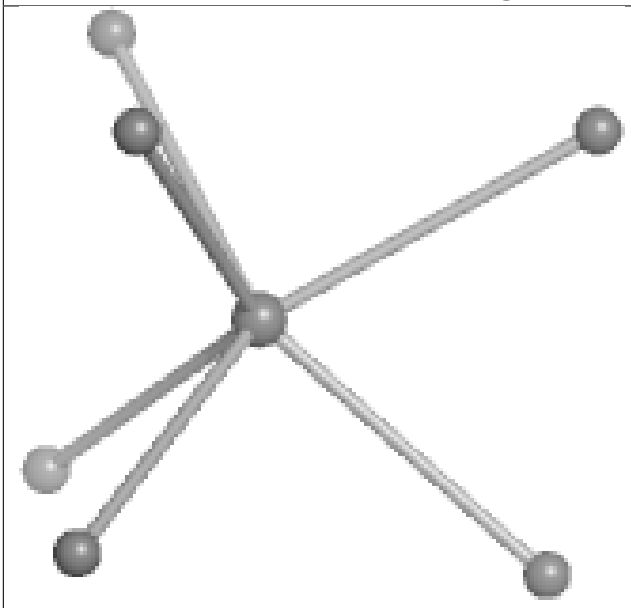


Torsions

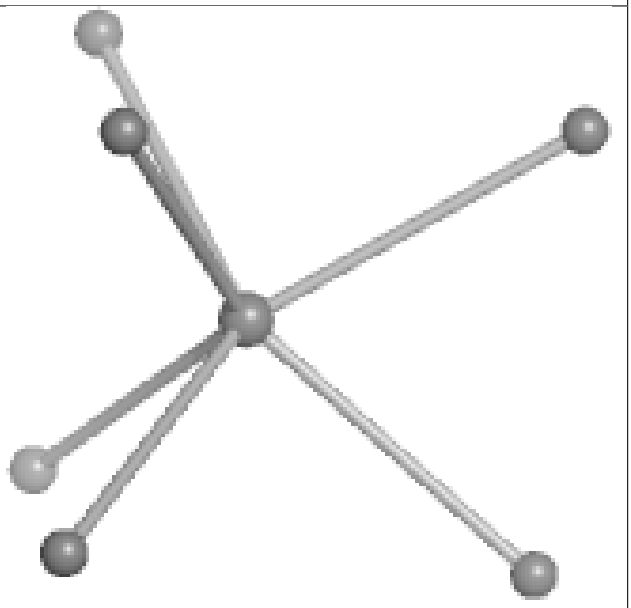


Rings

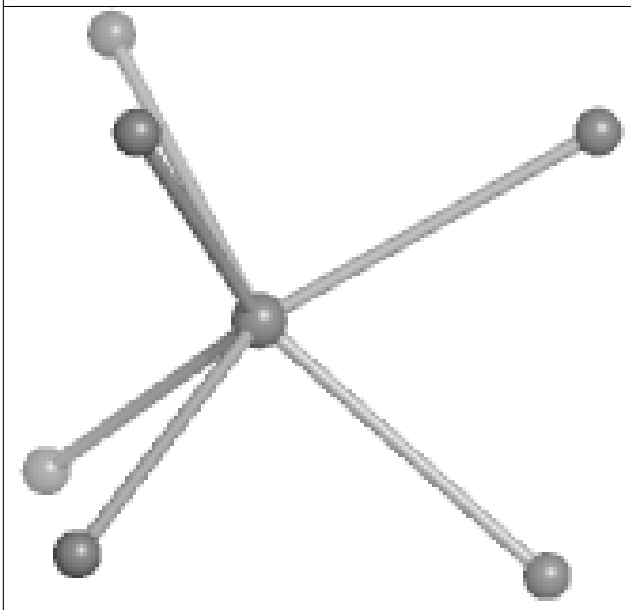
Ligand OHX AR 4202



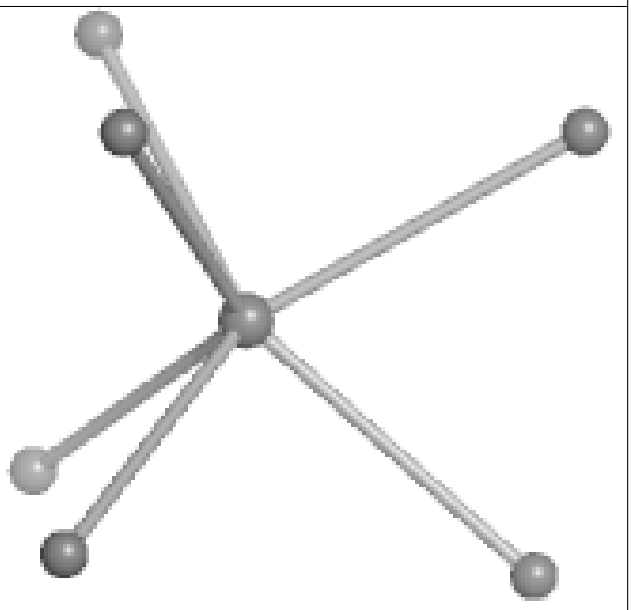
Bond lengths



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	1	3
1	AR	1
58	c0	1
47	A	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	1	1955:U	O3'	2093:A	P	26.04
1	AR	1955:U	O3'	2093:A	P	23.44
1	1	2445:A	O3'	2501:U	P	15.18
1	1	440:A	O3'	494:G	P	12.11
1	c0	84:GLU	C	87:HIS	N	8.58
1	A	1716:C	O3'	1717:G	P	4.65

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	1	3149/3149 (100%)	0.05	40 (1%) 74 69	42, 64, 172, 261	0
1	AR	3130/3149 (99%)	0.05	48 (1%) 71 66	42, 61, 152, 267	0
2	3	121/121 (100%)	-0.22	0 100 100	48, 75, 93, 135	0
2	AS	121/121 (100%)	-0.16	2 (1%) 69 63	46, 63, 79, 140	0
3	4	158/158 (100%)	-0.06	0 100 100	49, 65, 122, 208	0
3	AT	158/158 (100%)	0.04	4 (2%) 58 52	50, 69, 137, 200	0
4	CD	252/254 (99%)	0.66	20 (7%) 20 17	43, 65, 89, 158	0
4	j	252/254 (99%)	0.63	14 (5%) 31 27	44, 65, 88, 138	0
5	CE	386/387 (99%)	0.26	9 (2%) 61 54	42, 56, 82, 140	0
5	k	386/387 (99%)	0.49	17 (4%) 39 33	45, 65, 93, 152	0
6	CF	361/362 (99%)	0.40	10 (2%) 55 49	41, 64, 92, 129	0
6	l	361/362 (99%)	0.42	19 (5%) 33 28	42, 61, 94, 143	0
7	CG	292/297 (98%)	0.38	16 (5%) 32 27	50, 69, 111, 165	0
7	m	296/297 (99%)	0.54	21 (7%) 23 20	55, 83, 133, 174	0
8	CH	156/176 (88%)	0.47	9 (5%) 30 26	48, 66, 103, 152	0
8	n	156/176 (88%)	0.26	1 (0%) 85 82	48, 64, 99, 136	0
9	CI	222/244 (90%)	0.26	5 (2%) 61 54	45, 56, 100, 175	0
9	o	222/244 (90%)	0.23	8 (3%) 46 40	46, 58, 103, 167	0
10	CJ	226/256 (88%)	1.10	36 (15%) 6 5	66, 95, 135, 157	0
10	p	233/256 (91%)	0.67	11 (4%) 37 31	59, 85, 144, 180	0
11	CK	191/191 (100%)	0.23	7 (3%) 45 39	48, 63, 97, 172	0
11	q	191/191 (100%)	0.56	13 (6%) 25 21	52, 75, 108, 169	0
12	CL	211/221 (95%)	0.61	18 (8%) 18 15	45, 67, 104, 151	0
12	r	211/221 (95%)	0.53	18 (8%) 18 15	47, 66, 119, 154	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
13	CM	169/174 (97%)	0.57	12 (7%) 23 20	52, 73, 102, 134	0
13	s	169/174 (97%)	0.59	9 (5%) 33 28	64, 88, 116, 159	0
14	CN	193/199 (96%)	0.61	15 (7%) 20 18	44, 74, 128, 176	0
14	t	193/199 (96%)	0.51	16 (8%) 19 16	44, 70, 120, 170	0
15	CO	136/138 (98%)	0.36	10 (7%) 22 19	49, 62, 93, 136	0
15	u	136/138 (98%)	0.32	7 (5%) 34 29	51, 67, 97, 143	0
16	CP	203/204 (99%)	0.74	13 (6%) 27 22	44, 68, 86, 99	0
16	v	203/204 (99%)	0.51	5 (2%) 58 52	43, 62, 78, 94	0
17	CQ	197/199 (98%)	0.23	11 (5%) 31 27	42, 51, 91, 145	0
17	w	197/199 (98%)	0.24	5 (2%) 58 52	45, 57, 88, 129	0
18	CR	155/184 (84%)	0.19	3 (1%) 66 60	42, 56, 75, 147	0
18	x	183/184 (99%)	0.40	9 (4%) 36 30	44, 59, 139, 174	0
19	CS	185/186 (99%)	0.27	6 (3%) 50 44	46, 64, 85, 105	0
19	y	185/186 (99%)	0.54	16 (8%) 18 15	46, 60, 77, 107	0
20	CT	188/189 (99%)	0.74	24 (12%) 9 7	51, 76, 151, 201	0
20	z	177/189 (93%)	0.68	14 (7%) 20 17	59, 80, 137, 166	0
21	0	172/172 (100%)	0.37	10 (5%) 30 26	49, 63, 94, 160	0
21	CU	172/172 (100%)	0.13	4 (2%) 61 54	46, 58, 84, 124	0
22	2	159/160 (99%)	0.81	18 (11%) 11 10	46, 65, 114, 157	0
22	CV	159/160 (99%)	0.64	17 (10%) 12 11	45, 59, 113, 181	0
23	5	100/121 (82%)	0.84	10 (10%) 14 12	82, 114, 148, 169	0
23	CW	100/121 (82%)	1.01	18 (18%) 4 4	76, 103, 152, 166	0
24	6	136/137 (99%)	0.67	15 (11%) 12 10	46, 65, 101, 133	0
24	CX	136/137 (99%)	0.39	8 (5%) 29 25	43, 56, 89, 145	0
25	7	65/155 (41%)	0.69	8 (12%) 9 8	58, 71, 99, 156	0
25	CY	111/155 (71%)	0.70	9 (8%) 19 16	48, 77, 130, 146	0
26	8	121/142 (85%)	0.53	8 (6%) 26 22	56, 75, 108, 147	0
26	CZ	117/142 (82%)	0.56	7 (5%) 29 24	55, 79, 104, 131	0
27	9	126/127 (99%)	0.35	3 (2%) 59 53	47, 68, 96, 124	0
27	DA	124/127 (97%)	0.55	8 (6%) 26 22	48, 72, 97, 150	0
28	AA	135/136 (99%)	0.63	7 (5%) 34 28	77, 100, 132, 176	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
28	DB	135/136 (99%)	0.98	12 (8%) 17 14	76, 107, 148, 162	0
29	AB	148/149 (99%)	0.45	7 (4%) 37 31	42, 61, 93, 134	0
29	DC	148/149 (99%)	0.36	6 (4%) 42 35	42, 62, 95, 133	0
30	AC	58/59 (98%)	0.60	6 (10%) 13 12	45, 69, 128, 143	0
30	DD	58/59 (98%)	0.70	8 (13%) 8 7	44, 66, 110, 141	0
31	AD	97/105 (92%)	0.40	3 (3%) 51 46	73, 98, 134, 147	0
31	DE	97/105 (92%)	0.64	5 (5%) 34 28	74, 95, 132, 156	0
32	AE	109/113 (96%)	0.87	13 (11%) 10 9	54, 78, 137, 166	0
32	DF	109/113 (96%)	0.38	4 (3%) 45 39	48, 66, 144, 175	0
33	AF	127/130 (97%)	0.36	5 (3%) 44 37	43, 54, 74, 140	0
33	DG	127/130 (97%)	0.26	3 (2%) 59 53	42, 57, 82, 125	0
34	AG	106/107 (99%)	0.22	3 (2%) 55 49	45, 55, 73, 89	0
34	DH	106/107 (99%)	0.39	6 (5%) 30 26	44, 54, 82, 124	0
35	AH	111/121 (91%)	0.92	12 (10%) 12 11	53, 79, 123, 171	0
35	DI	112/121 (92%)	1.05	24 (21%) 3 3	54, 78, 140, 163	0
36	AI	119/120 (99%)	0.58	8 (6%) 25 21	51, 75, 99, 126	0
36	DJ	119/120 (99%)	0.61	5 (4%) 41 35	59, 81, 109, 126	0
37	AJ	96/100 (96%)	0.61	5 (5%) 34 28	59, 77, 112, 127	0
37	DK	99/100 (99%)	0.95	12 (12%) 10 9	67, 85, 141, 167	0
38	AK	87/88 (98%)	0.46	7 (8%) 20 17	44, 57, 76, 153	0
38	DL	86/88 (97%)	0.44	2 (2%) 61 54	44, 59, 93, 117	0
39	AL	77/78 (98%)	0.76	5 (6%) 26 22	68, 104, 135, 159	0
39	DM	77/78 (98%)	0.81	6 (7%) 20 18	73, 102, 142, 150	0
40	AM	50/51 (98%)	0.82	7 (14%) 7 6	46, 66, 81, 101	0
40	DN	50/51 (98%)	0.65	5 (10%) 14 12	49, 67, 84, 93	0
41	AN	52/128 (40%)	0.34	3 (5%) 30 26	52, 68, 98, 136	0
41	DO	52/128 (40%)	0.14	3 (5%) 30 26	45, 55, 82, 113	0
42	AO	25/25 (100%)	1.04	2 (8%) 20 17	58, 72, 87, 96	0
42	DP	25/25 (100%)	0.93	4 (16%) 6 5	52, 65, 82, 99	0
43	AP	105/106 (99%)	0.60	14 (13%) 8 7	44, 65, 105, 154	0
43	DQ	105/106 (99%)	0.49	9 (8%) 18 15	45, 64, 99, 146	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
44	AQ	91/92 (98%)	0.58	5 (5%) 32 27	51, 72, 104, 130	0
44	DR	91/92 (98%)	0.56	7 (7%) 21 18	45, 71, 101, 128	0
45	i	142/273 (52%)	1.40	40 (28%) 1 2	54, 108, 165, 189	0
45	sM	63/273 (23%)	1.09	8 (12%) 9 8	49, 113, 154, 172	0
46	p0	126/312 (40%)	1.13	26 (20%) 3 3	83, 121, 151, 164	0
47	A	1741/1800 (96%)	0.31	48 (2%) 55 49	60, 94, 198, 266	0
47	sR	1783/1800 (99%)	0.24	49 (2%) 56 50	48, 86, 204, 258	0
48	B	206/252 (81%)	1.28	48 (23%) 2 2	94, 123, 157, 175	0
48	s0	206/252 (81%)	0.94	25 (12%) 10 9	71, 104, 140, 166	0
49	C	214/255 (83%)	1.28	43 (20%) 3 3	88, 139, 176, 208	0
49	s1	216/255 (84%)	0.55	15 (6%) 24 20	62, 92, 127, 173	0
50	D	217/254 (85%)	1.05	27 (12%) 9 8	74, 100, 139, 161	0
50	s2	217/254 (85%)	1.02	33 (15%) 6 5	60, 86, 125, 150	0
51	E	223/240 (92%)	0.97	30 (13%) 8 7	76, 105, 151, 190	0
51	s3	223/240 (92%)	1.22	41 (18%) 4 4	79, 118, 157, 179	0
52	F	260/261 (99%)	1.12	40 (15%) 6 5	71, 99, 135, 156	0
52	s4	260/261 (99%)	0.78	18 (6%) 24 20	59, 86, 117, 165	0
53	G	206/225 (91%)	1.07	34 (16%) 5 5	85, 127, 162, 184	0
53	s5	198/225 (88%)	1.33	40 (20%) 3 3	79, 117, 155, 187	0
54	H	226/236 (95%)	1.59	67 (29%) 1 1	62, 106, 150, 167	0
54	s6	218/236 (92%)	1.04	38 (17%) 5 4	59, 89, 132, 167	0
55	I	184/190 (96%)	0.98	19 (10%) 13 12	81, 127, 165, 181	0
55	s7	186/190 (97%)	1.11	24 (12%) 9 7	67, 115, 162, 187	0
56	J	188/200 (94%)	0.93	23 (12%) 10 8	61, 85, 125, 161	0
56	s8	188/200 (94%)	1.35	43 (22%) 2 2	54, 82, 137, 160	0
57	K	185/197 (93%)	1.09	33 (17%) 4 4	76, 107, 162, 208	0
57	s9	185/197 (93%)	0.92	27 (14%) 7 6	63, 90, 137, 169	0
58	L	96/105 (91%)	1.36	29 (30%) 1 1	75, 117, 166, 171	0
58	c0	96/105 (91%)	1.52	31 (32%) 1 1	100, 135, 173, 187	0
59	M	142/156 (91%)	0.72	13 (9%) 16 14	62, 82, 122, 162	0
59	c1	146/156 (93%)	0.94	19 (13%) 9 7	53, 79, 143, 178	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
60	N	124/143 (86%)	1.19	25 (20%) 3 3	117, 157, 185, 202	0
61	O	150/151 (99%)	0.75	12 (8%) 20 17	64, 102, 130, 150	0
61	c3	150/151 (99%)	0.55	4 (2%) 56 50	59, 88, 115, 143	0
62	P	127/138 (92%)	1.48	28 (22%) 3 3	68, 135, 165, 189	0
62	c4	127/138 (92%)	0.86	17 (13%) 8 7	58, 96, 127, 165	0
63	Q	124/142 (87%)	1.23	23 (18%) 4 3	78, 102, 158, 195	0
63	c5	135/142 (95%)	1.28	30 (22%) 3 2	84, 116, 163, 181	0
64	R	141/143 (98%)	1.42	36 (25%) 2 2	80, 113, 139, 169	0
64	c6	142/143 (99%)	1.70	42 (29%) 1 1	66, 112, 155, 176	0
65	S	120/136 (88%)	1.16	21 (17%) 5 4	77, 124, 162, 183	0
65	c7	117/136 (86%)	0.96	16 (13%) 8 7	74, 110, 153, 198	0
66	T	145/146 (99%)	0.86	17 (11%) 10 9	67, 113, 158, 173	0
66	c8	145/146 (99%)	0.98	18 (12%) 9 8	79, 110, 154, 173	0
67	U	143/144 (99%)	1.38	35 (24%) 2 2	80, 114, 147, 173	0
67	c9	143/144 (99%)	0.77	12 (8%) 18 16	72, 105, 138, 181	0
68	V	96/121 (79%)	2.04	40 (41%) 1 1	71, 116, 155, 164	0
68	d0	89/121 (73%)	1.45	22 (24%) 2 2	67, 116, 163, 173	0
69	W	87/87 (100%)	0.99	11 (12%) 9 8	83, 113, 146, 175	0
69	d1	87/87 (100%)	0.88	8 (9%) 16 14	66, 93, 123, 155	0
70	X	129/130 (99%)	0.87	15 (11%) 11 9	71, 96, 116, 132	0
70	d2	129/130 (99%)	0.71	6 (4%) 37 31	56, 76, 94, 109	0
71	Y	144/145 (99%)	1.18	27 (18%) 4 3	60, 80, 115, 143	0
71	d3	144/145 (99%)	0.86	19 (13%) 8 7	51, 68, 89, 135	0
72	Z	134/135 (99%)	0.98	15 (11%) 11 10	69, 113, 151, 174	0
72	d4	134/135 (99%)	0.89	20 (14%) 7 6	62, 93, 135, 177	0
73	a	70/108 (64%)	1.11	9 (12%) 9 7	106, 141, 171, 181	0
73	d5	69/108 (63%)	1.08	7 (10%) 14 12	96, 133, 168, 187	0
74	b	97/119 (81%)	1.29	19 (19%) 4 3	78, 108, 171, 186	0
74	d6	97/119 (81%)	0.78	10 (10%) 13 12	54, 76, 134, 150	0
75	c	81/82 (98%)	0.92	10 (12%) 9 8	81, 114, 161, 183	0
75	d7	81/82 (98%)	0.69	6 (7%) 22 19	59, 96, 159, 171	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å^2)	Q<0.9
76	d	63/67 (94%)	1.07	5 (7%) 20 17	89, 140, 163, 180	0
76	d8	63/67 (94%)	1.41	15 (23%) 2 2	98, 133, 167, 192	0
77	d9	53/56 (94%)	1.26	12 (22%) 3 2	78, 93, 137, 161	0
77	e	53/56 (94%)	0.80	6 (11%) 11 10	71, 90, 110, 163	0
78	e0	62/63 (98%)	0.97	8 (12%) 9 7	60, 97, 155, 171	0
78	f	60/63 (95%)	0.88	6 (10%) 14 12	67, 112, 157, 176	0
79	e1	51/152 (33%)	1.84	18 (35%) 1 1	121, 163, 186, 196	0
79	g	71/152 (46%)	1.31	17 (23%) 2 2	97, 150, 181, 218	0
80	Rb	318/319 (99%)	1.20	60 (18%) 4 3	91, 134, 165, 194	0
80	h	318/319 (99%)	1.31	67 (21%) 3 3	84, 123, 162, 199	0
All	All	32652/34933 (93%)	0.56	2622 (8%) 20 17	41, 80, 154, 267	0

All (2622) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
12	r	112	GLN	9.3
64	c6	141	SER	9.0
45	i	88	ARG	8.8
54	H	79	LYS	8.6
50	s2	92	ALA	8.5
67	U	92	LYS	8.3
64	c6	142	TYR	8.1
54	H	80	ASN	8.0
17	CQ	3	VAL	8.0
80	h	79	TYR	7.7
51	E	148	LYS	7.7
64	R	40	GLU	7.6
71	Y	3	LYS	7.4
10	CJ	121	SER	7.2
10	CJ	107	GLU	7.1
68	V	31	VAL	6.9
58	c0	64	TYR	6.9
64	R	132	LYS	6.8
45	i	89	ARG	6.7
54	H	153	VAL	6.6
51	s3	142	LEU	6.6
51	s3	151	LYS	6.5
68	V	84	MET	6.5

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Mol	Chain	Res	Type	RSRZ
12	CL	112	GLN	6.5
58	c0	27	PHE	6.4
64	c6	139	GLN	6.4
54	H	89	ASP	6.4
35	AH	2	ALA	6.4
78	e0	2	ALA	6.3
54	H	157	VAL	6.3
52	F	142	HIS	6.2
63	Q	101	ALA	6.2
45	i	85	SER	6.2
64	c6	140	LYS	6.1
56	s8	100	ALA	6.1
58	c0	25	LYS	6.1
54	H	156	PHE	6.0
62	c4	48	VAL	5.9
64	c6	138	PHE	5.9
45	sM	84	LYS	5.9
54	H	78	THR	5.9
53	G	36	ALA	5.9
80	h	78	ALA	5.9
68	V	19	ILE	5.9
56	s8	61	GLU	5.9
12	r	113	GLN	5.8
68	V	82	TYR	5.8
64	c6	132	LYS	5.8
57	K	5	PRO	5.7
52	F	23	LEU	5.7
18	CR	2	ALA	5.7
52	F	25	GLY	5.7
54	H	147	LEU	5.7
22	CV	86	GLU	5.7
54	s6	68	LEU	5.7
50	s2	208	GLU	5.7
55	I	98	ILE	5.6
53	s5	149	VAL	5.6
58	L	24	LYS	5.6
20	z	2	ALA	5.5
45	i	92	ASP	5.5
22	2	124	VAL	5.5
33	AF	2	ALA	5.5
51	s3	144	ALA	5.5
54	H	77	LEU	5.4

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Mol	Chain	Res	Type	RSRZ
35	DI	16	ARG	5.4
80	h	136	ILE	5.4
50	D	164	SER	5.4
68	d0	77	LYS	5.3
57	K	159	ALA	5.3
50	s2	90	THR	5.3
4	CD	250	GLN	5.3
64	c6	143	ARG	5.3
4	j	13	GLY	5.3
68	V	67	THR	5.3
10	CJ	113	ALA	5.3
59	c1	4	GLU	5.3
51	s3	176	LEU	5.3
52	F	186	GLY	5.2
64	R	141	SER	5.2
21	CU	2	ALA	5.2
21	0	1	MET	5.2
58	c0	24	LYS	5.2
57	s9	8	TYR	5.2
56	J	22	ARG	5.1
24	6	2	SER	5.1
12	r	114	GLY	5.1
56	s8	45	SER	5.1
43	AP	29	LYS	5.1
50	D	84	LYS	5.1
43	AP	30	ALA	5.1
80	Rb	121	MET	5.0
45	sM	83	LYS	5.0
12	r	221	ALA	5.0
24	CX	3	GLY	5.0
54	s6	88	ARG	5.0
4	j	253	GLN	5.0
1	AR	1103	A	5.0
74	b	3	LYS	5.0
50	D	86	VAL	5.0
56	J	21	PHE	4.9
56	s8	40	ALA	4.9
4	CD	246	LEU	4.9
17	w	3	VAL	4.9
1	1	2874	G	4.9
64	c6	44	LEU	4.9
62	P	15	GLY	4.9

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Mol	Chain	Res	Type	RSRZ
45	i	87	THR	4.9
50	D	85	PRO	4.9
49	C	142	PHE	4.8
6	l	50	TYR	4.8
54	s6	216	LEU	4.8
28	DB	75	VAL	4.8
63	Q	11	VAL	4.8
77	d9	7	TRP	4.8
59	c1	144	ALA	4.8
48	B	158	VAL	4.8
24	6	53	SER	4.8
37	DK	9	ILE	4.8
58	c0	26	ASP	4.7
74	b	84	VAL	4.7
20	z	85	ARG	4.7
48	B	127	ARG	4.7
16	CP	181	ASN	4.7
68	V	64	LYS	4.7
57	K	2	PRO	4.7
62	c4	125	SER	4.7
50	s2	87	GLN	4.7
7	CG	288	ALA	4.7
51	s3	148	LYS	4.7
59	c1	29	LYS	4.7
20	z	72	GLU	4.7
54	H	76	LEU	4.7
68	V	85	ARG	4.7
73	d5	75	LEU	4.7
10	CJ	114	ALA	4.7
48	B	134	LYS	4.7
50	s2	84	LYS	4.7
15	u	9	ALA	4.6
12	CL	11	TYR	4.6
79	g	88	PRO	4.6
35	DI	101	VAL	4.6
58	L	96	ASN	4.6
18	x	184	ALA	4.6
57	K	161	THR	4.6
50	D	163	GLY	4.6
56	s8	60	ILE	4.6
59	M	2	SER	4.6
72	Z	35	VAL	4.5

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Mol	Chain	Res	Type	RSRZ
64	R	118	ILE	4.5
52	F	4	GLY	4.5
62	P	89	THR	4.5
79	g	87	THR	4.5
80	h	99	THR	4.5
1	AR	2873	U	4.5
57	s9	148	VAL	4.5
62	P	39	ILE	4.5
80	h	81	LEU	4.5
58	L	40	LEU	4.5
10	CJ	106	LYS	4.5
57	s9	33	GLU	4.5
64	c6	130	GLY	4.5
50	s2	85	PRO	4.5
56	s8	62	THR	4.5
62	P	37	GLU	4.4
54	s6	162	VAL	4.4
4	CD	253	GLN	4.4
35	DI	33	GLN	4.4
55	s7	123	ASP	4.4
22	CV	126	VAL	4.4
54	s6	147	LEU	4.4
42	DP	11	ARG	4.4
8	CH	8	LYS	4.4
53	s5	184	PHE	4.4
51	s3	19	ALA	4.4
22	2	126	VAL	4.4
55	s7	109	VAL	4.4
53	G	41	LYS	4.4
14	t	62	THR	4.4
72	d4	50	ALA	4.4
21	0	2	ALA	4.3
68	d0	82	TYR	4.3
80	h	43	ILE	4.3
22	2	74	VAL	4.3
51	s3	180	GLY	4.3
45	i	97	THR	4.3
49	C	46	THR	4.3
12	CL	195	ALA	4.3
14	CN	46	ILE	4.3
41	DO	77	ILE	4.3
56	s8	99	ALA	4.3

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Mol	Chain	Res	Type	RSRZ
71	Y	103	LEU	4.3
73	a	75	LEU	4.3
9	o	158	LYS	4.3
14	t	63	VAL	4.3
54	s6	79	LYS	4.3
78	e0	49	LEU	4.3
15	CO	9	ALA	4.3
15	u	10	SER	4.3
24	CX	2	SER	4.3
56	s8	21	PHE	4.3
54	H	154	ARG	4.3
56	s8	46	VAL	4.2
68	V	62	VAL	4.2
45	i	83	LYS	4.2
51	s3	150	MET	4.2
63	Q	126	VAL	4.2
43	AP	94	GLY	4.2
21	CU	1	MET	4.2
45	i	104	LYS	4.2
35	AH	20	ILE	4.2
79	e1	102	VAL	4.2
20	CT	131	ALA	4.2
26	8	30	ALA	4.2
59	M	3	THR	4.2
61	O	9	LYS	4.2
53	s5	187	ILE	4.2
57	s9	3	ARG	4.2
64	c6	90	VAL	4.2
79	g	86	THR	4.1
67	U	38	LYS	4.1
39	AL	78	LEU	4.1
66	c8	3	LEU	4.1
73	a	69	LEU	4.1
4	CD	15	ILE	4.1
50	s2	91	ARG	4.1
54	H	88	ARG	4.1
56	s8	44	HIS	4.1
48	s0	162	CYS	4.1
80	h	8	VAL	4.1
4	CD	252	THR	4.1
45	i	91	THR	4.1
22	2	62	GLY	4.1

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Mol	Chain	Res	Type	RSRZ
68	V	80	GLU	4.1
73	d5	50	ILE	4.1
63	c5	4	ALA	4.1
61	O	53	LEU	4.1
53	s5	69	PHE	4.1
36	AI	75	TYR	4.1
54	s6	169	TYR	4.1
47	sR	1634	C	4.1
29	AB	66	ALA	4.1
33	DG	26	HIS	4.1
80	h	167	VAL	4.1
47	sR	673	A	4.1
49	C	120	LEU	4.1
64	c6	117	LEU	4.1
71	Y	2	GLY	4.1
80	Rb	54	PHE	4.1
45	i	93	ARG	4.1
49	C	95	ASN	4.1
63	Q	82	ASN	4.1
74	b	86	VAL	4.1
5	k	155	ALA	4.1
72	d4	127	LYS	4.1
54	H	145	PHE	4.0
4	CD	190	ARG	4.0
54	H	158	ILE	4.0
80	h	115	ILE	4.0
17	CQ	183	ALA	4.0
23	CW	14	THR	4.0
54	H	175	ILE	4.0
65	S	14	LYS	4.0
67	U	104	VAL	4.0
10	CJ	117	ALA	4.0
67	U	58	ALA	4.0
51	s3	87	TYR	4.0
68	V	117	VAL	4.0
17	CQ	182	ASN	4.0
53	s5	79	ASN	4.0
12	CL	220	GLN	4.0
58	L	62	GLN	4.0
65	c7	95	ARG	4.0
69	W	62	ARG	4.0
65	S	25	THR	4.0

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Mol	Chain	Res	Type	RSRZ
30	DD	25	LYS	4.0
80	h	121	MET	4.0
67	U	132	LEU	4.0
51	s3	146	ARG	4.0
29	AB	116	GLY	4.0
35	AH	21	LYS	3.9
58	L	90	THR	3.9
75	d7	53	ALA	3.9
78	e0	5	HIS	3.9
58	c0	65	TYR	3.9
59	M	120	GLY	3.9
23	CW	54	VAL	3.9
48	B	189	VAL	3.9
15	CO	10	SER	3.9
57	s9	48	GLN	3.9
1	1	2971	A	3.9
54	H	155	ASP	3.9
45	i	163	THR	3.9
69	W	64	GLU	3.9
72	d4	18	LEU	3.9
38	AK	87	SER	3.9
56	s8	47	ARG	3.9
41	DO	78	ILE	3.9
57	s9	104	PHE	3.9
58	L	27	PHE	3.9
65	S	71	PHE	3.9
22	2	77	ASN	3.9
54	H	90	GLY	3.9
55	I	145	GLY	3.9
12	r	102	MET	3.9
48	s0	19	ALA	3.9
20	z	71	ARG	3.9
24	6	32	ARG	3.9
53	G	28	PRO	3.9
17	w	80	PHE	3.9
32	AE	5	LYS	3.9
1	AR	3276	G	3.9
60	N	61	VAL	3.8
64	c6	4	VAL	3.8
1	AR	1201	C	3.8
14	t	77	LEU	3.8
59	c1	3	THR	3.8

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Mol	Chain	Res	Type	RSRZ
65	S	73	LEU	3.8
24	6	52	ALA	3.8
60	N	27	ALA	3.8
70	X	17	ALA	3.8
80	h	253	ALA	3.8
64	R	21	HIS	3.8
54	s6	177	ARG	3.8
53	s5	68	ILE	3.8
63	Q	53	PRO	3.8
4	CD	186	PHE	3.8
63	c5	83	MET	3.8
46	p0	54	GLY	3.8
71	Y	129	GLY	3.8
79	e1	122	SER	3.8
68	d0	51	VAL	3.8
75	d7	2	VAL	3.8
10	CJ	109	LEU	3.8
50	D	96	THR	3.8
80	h	96	THR	3.8
47	A	1657	U	3.8
67	U	90	PRO	3.8
46	p0	86	PHE	3.8
71	Y	44	GLY	3.8
5	k	347	SER	3.8
71	Y	145	SER	3.8
50	s2	121	VAL	3.8
45	i	167	GLU	3.8
10	CJ	110	THR	3.8
45	sM	82	THR	3.8
51	s3	117	ARG	3.8
80	h	72	THR	3.8
59	M	32	LYS	3.8
57	s9	5	PRO	3.8
53	G	152	GLY	3.8
58	L	89	GLY	3.8
58	c0	62	GLN	3.8
71	d3	145	SER	3.8
69	d1	11	LEU	3.8
80	Rb	32	LEU	3.8
38	AK	88	ALA	3.8
46	p0	107	ALA	3.8
49	C	60	ALA	3.8

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Mol	Chain	Res	Type	RSRZ
13	s	10	ARG	3.8
51	s3	177	MET	3.8
62	c4	124	ASP	3.8
64	R	133	GLY	3.8
23	CW	56	VAL	3.8
63	c5	34	VAL	3.8
47	sR	1199	G	3.8
58	L	60	SER	3.8
64	R	15	SER	3.8
44	AQ	51	ALA	3.7
48	B	28	ASN	3.7
72	Z	34	ASN	3.7
40	AM	51	ILE	3.7
9	CI	163	LEU	3.7
68	V	108	ILE	3.7
13	CM	7	ASN	3.7
71	Y	28	ASN	3.7
50	D	144	TRP	3.7
57	K	60	LEU	3.7
60	N	59	LEU	3.7
55	s7	111	LYS	3.7
61	O	109	LYS	3.7
79	e1	121	CYS	3.7
25	CY	63	ILE	3.7
76	d8	26	THR	3.7
30	DD	34	GLY	3.7
50	s2	93	GLY	3.7
59	c1	5	LEU	3.7
18	x	182	ILE	3.7
45	i	168	ALA	3.7
43	DQ	34	SER	3.7
52	F	184	THR	3.7
59	M	78	THR	3.7
47	sR	1192	C	3.7
35	AH	61	GLN	3.7
50	s2	89	GLN	3.7
67	c9	92	LYS	3.7
25	7	63	ILE	3.7
51	s3	152	PHE	3.6
58	c0	84	GLU	3.6
52	s4	26	CYS	3.6
71	d3	21	ASN	3.6

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Mol	Chain	Res	Type	RSRZ
65	S	2	GLY	3.6
71	d3	24	TRP	3.6
54	H	36	VAL	3.6
63	c5	126	VAL	3.6
74	b	75	VAL	3.6
4	j	250	GLN	3.6
52	s4	171	ASP	3.6
75	c	51	GLN	3.6
53	G	177	ILE	3.6
79	e1	148	TYR	3.6
10	CJ	104	GLU	3.6
1	AR	437	G	3.6
29	DC	78	LEU	3.6
43	DQ	104	LEU	3.6
46	p0	70	LEU	3.6
50	D	161	LYS	3.6
62	c4	51	ASP	3.6
36	DJ	120	ALA	3.6
54	H	169	TYR	3.6
11	CK	138	THR	3.6
50	D	162	CYS	3.6
45	i	86	ASN	3.6
63	c5	105	VAL	3.6
65	c7	97	ASN	3.6
68	V	86	ILE	3.6
36	AI	120	ALA	3.6
54	s6	156	PHE	3.6
63	c5	12	PHE	3.6
11	q	166	ARG	3.6
69	d1	39	VAL	3.6
72	Z	100	VAL	3.6
49	C	140	ILE	3.6
50	s2	94	GLN	3.6
58	L	30	ALA	3.6
13	CM	8	PRO	3.6
74	b	19	LYS	3.6
36	AI	8	GLU	3.5
28	DB	12	VAL	3.5
49	C	48	VAL	3.5
51	E	146	ARG	3.5
68	d0	117	VAL	3.5
74	b	85	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
4	CD	249	SER	3.5
50	s2	53	ILE	3.5
80	Rb	115	ILE	3.5
12	CL	101	LYS	3.5
5	CE	178	LEU	3.5
30	DD	27	TYR	3.5
37	AJ	11	LEU	3.5
60	N	62	LEU	3.5
45	i	165	GLU	3.5
58	c0	3	MET	3.5
49	C	63	GLY	3.5
53	G	70	VAL	3.5
65	S	110	VAL	3.5
79	g	84	VAL	3.5
6	l	74	ILE	3.5
6	l	106	TRP	3.5
12	r	218	ALA	3.5
15	CO	138	ALA	3.5
9	CI	158	LYS	3.5
45	i	105	LYS	3.5
50	s2	88	LYS	3.5
57	K	160	PRO	3.5
64	c6	46	PHE	3.5
64	R	117	LEU	3.5
64	c6	92	TYR	3.5
68	d0	83	GLU	3.5
50	s2	86	VAL	3.5
77	d9	6	VAL	3.5
30	AC	26	THR	3.5
51	s3	184	ILE	3.5
65	c7	69	ILE	3.5
55	s7	108	GLN	3.5
56	J	198	ALA	3.5
73	a	36	ALA	3.5
31	AD	14	LEU	3.5
64	c6	28	LEU	3.5
66	T	86	LEU	3.5
62	c4	135	ARG	3.5
80	h	102	ARG	3.5
62	P	91	THR	3.5
8	CH	4	GLN	3.5
12	CL	113	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
23	5	9	GLN	3.5
36	DJ	2	ALA	3.5
51	s3	147	ALA	3.5
80	h	27	ALA	3.5
31	DE	41	LEU	3.5
49	s1	217	LEU	3.5
45	i	96	ARG	3.5
55	I	8	ILE	3.4
76	d8	13	ILE	3.4
10	CJ	122	LYS	3.4
45	i	115	LYS	3.4
56	s8	200	LYS	3.4
20	CT	159	ALA	3.4
50	s2	118	ALA	3.4
51	E	147	ALA	3.4
53	s5	28	PRO	3.4
60	N	88	LEU	3.4
62	c4	50	ALA	3.4
58	c0	98	ASN	3.4
62	P	34	SER	3.4
53	s5	102	ARG	3.4
1	AR	2874	G	3.4
59	M	7	VAL	3.4
47	A	1426	C	3.4
55	s7	98	ILE	3.4
64	R	70	THR	3.4
80	h	34	LEU	3.4
4	CD	14	SER	3.4
77	d9	40	ARG	3.4
79	g	150	VAL	3.4
80	h	6	VAL	3.4
39	AL	5	ILE	3.4
45	i	9	GLY	3.4
58	c0	94	ILE	3.4
56	s8	199	LYS	3.4
68	d0	64	LYS	3.4
73	a	65	LEU	3.4
10	CJ	102	ALA	3.4
12	r	195	ALA	3.4
51	E	145	ALA	3.4
62	P	40	ALA	3.4
79	e1	110	ALA	3.4

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Mol	Chain	Res	Type	RSRZ
80	Rb	27	ALA	3.4
50	s2	199	GLN	3.4
47	A	320	U	3.4
24	CX	4	ASN	3.4
55	s7	66	SER	3.4
71	d3	27	ASN	3.4
48	B	162	CYS	3.4
51	E	41	VAL	3.4
68	d0	114	VAL	3.4
75	c	62	ILE	3.4
46	p0	43	LYS	3.4
58	L	91	TYR	3.4
5	k	14	LEU	3.4
6	l	182	LEU	3.4
68	d0	78	THR	3.4
76	d	63	ALA	3.4
48	B	23	HIS	3.4
54	H	142	ARG	3.4
47	sR	1473	U	3.4
62	P	13	VAL	3.4
65	S	124	VAL	3.4
68	V	37	VAL	3.4
38	AK	10	LYS	3.4
42	DP	25	LYS	3.4
48	s0	166	GLY	3.4
54	H	91	GLU	3.4
43	AP	93	LEU	3.3
58	c0	2	LEU	3.3
56	s8	65	PHE	3.3
45	i	90	ALA	3.3
45	i	158	ALA	3.3
10	CJ	123	GLN	3.3
77	e	20	GLN	3.3
43	DQ	18	ARG	3.3
12	CL	53	VAL	3.3
57	K	134	ILE	3.3
73	d5	71	ILE	3.3
78	e0	47	VAL	3.3
1	1	494	G	3.3
47	sR	1201	G	3.3
54	H	21	GLU	3.3
7	m	51	LEU	3.3

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Mol	Chain	Res	Type	RSRZ
80	h	71	CYS	3.3
80	h	73	LEU	3.3
43	DQ	106	PHE	3.3
26	8	50	ALA	3.3
53	s5	74	ALA	3.3
66	c8	145	ARG	3.3
64	R	127	LYS	3.3
41	AN	77	ILE	3.3
63	c5	11	VAL	3.3
49	C	110	LEU	3.3
56	s8	52	ASN	3.3
64	R	38	LEU	3.3
64	c6	79	TYR	3.3
64	c6	60	PHE	3.3
63	Q	125	PRO	3.3
49	C	156	ALA	3.3
40	AM	46	ARG	3.3
52	s4	134	LYS	3.3
67	U	94	ILE	3.3
46	p0	27	VAL	3.3
48	B	166	GLY	3.3
54	H	146	GLY	3.3
20	z	89	LEU	3.3
54	s6	178	LEU	3.3
33	AF	17	PHE	3.3
54	s6	144	PHE	3.3
69	W	61	SER	3.3
56	J	179	CYS	3.3
45	i	84	LYS	3.3
72	Z	117	LYS	3.3
23	CW	100	THR	3.3
65	S	8	THR	3.3
5	k	25	ILE	3.3
48	B	168	HIS	3.3
64	c6	43	ILE	3.3
66	c8	137	HIS	3.3
1	AR	2093	A	3.3
63	Q	80	MET	3.3
49	s1	54	LEU	3.3
79	e1	132	LEU	3.3
10	CJ	100	GLU	3.3
10	CJ	195	SER	3.2

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Mol	Chain	Res	Type	RSRZ
16	v	40	ALA	3.2
37	DK	96	ALA	3.2
52	F	187	ARG	3.2
56	s8	31	ARG	3.2
63	c5	136	SER	3.2
26	8	45	LYS	3.2
29	AB	77	LYS	3.2
54	H	149	LYS	3.2
63	Q	104	GLN	3.2
80	h	12	THR	3.2
7	CG	135	VAL	3.2
54	H	67	VAL	3.2
66	T	5	VAL	3.2
23	5	89	LEU	3.2
51	E	86	LEU	3.2
56	s8	58	LEU	3.2
11	q	178	GLY	3.2
10	CJ	112	GLU	3.2
11	q	11	GLU	3.2
51	s3	220	PRO	3.2
80	h	162	ALA	3.2
33	DG	38	ILE	3.2
62	P	71	CYS	3.2
74	b	44	ILE	3.2
80	Rb	188	ILE	3.2
7	m	63	GLN	3.2
26	CZ	99	VAL	3.2
72	d4	35	VAL	3.2
49	C	218	LEU	3.2
49	C	228	LEU	3.2
53	s5	165	LEU	3.2
54	H	75	LEU	3.2
75	d7	24	LEU	3.2
80	h	7	LEU	3.2
80	h	9	LEU	3.2
24	CX	5	GLY	3.2
80	h	45	TRP	3.2
13	CM	157	GLU	3.2
1	1	1103	A	3.2
12	CL	10	ARG	3.2
22	CV	21	LYS	3.2
64	R	123	ARG	3.2

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Mol	Chain	Res	Type	RSRZ
14	CN	135	ALA	3.2
49	C	141	ALA	3.2
74	b	56	ALA	3.2
64	R	92	TYR	3.2
6	CF	280	ILE	3.2
14	CN	93	ILE	3.2
45	sM	85	SER	3.2
47	A	261	U	3.2
68	V	91	ILE	3.2
51	s3	143	ARG	3.2
55	s7	102	PRO	3.2
58	c0	23	ALA	3.2
13	s	132	ASN	3.2
19	y	57	ILE	3.2
49	C	113	MET	3.2
16	CP	75	VAL	3.2
56	s8	179	CYS	3.2
54	s6	103	GLY	3.2
30	DD	22	LYS	3.2
48	B	107	PHE	3.2
50	D	215	PHE	3.2
72	d4	132	ARG	3.2
80	h	161	LYS	3.2
23	CW	106	ALA	3.1
44	DR	51	ALA	3.1
55	s7	91	ILE	3.1
62	P	115	ILE	3.1
79	g	105	TYR	3.1
43	AP	104	LEU	3.1
66	c8	17	LEU	3.1
68	d0	34	LEU	3.1
76	d	44	VAL	3.1
80	h	56	VAL	3.1
73	d5	38	HIS	3.1
51	s3	139	SER	3.1
79	g	146	SER	3.1
24	6	3	GLY	3.1
49	C	93	GLY	3.1
71	d3	44	GLY	3.1
80	Rb	138	GLY	3.1
14	CN	5	LYS	3.1
35	DI	7	PHE	3.1

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Mol	Chain	Res	Type	RSRZ
51	E	24	PHE	3.1
51	s3	141	LYS	3.1
57	s9	47	PHE	3.1
54	H	222	GLU	3.1
51	E	206	VAL	3.1
52	F	76	VAL	3.1
53	s5	61	TYR	3.1
62	P	79	VAL	3.1
66	T	17	LEU	3.1
67	c9	55	TYR	3.1
1	AR	2535	A	3.1
64	R	17	THR	3.1
53	G	84	LYS	3.1
54	s6	187	LYS	3.1
62	c4	47	LYS	3.1
63	c5	9	LYS	3.1
5	k	226	PHE	3.1
52	F	26	CYS	3.1
58	L	94	GLU	3.1
51	s3	145	ALA	3.1
41	AN	78	ILE	3.1
74	b	83	ILE	3.1
26	CZ	40	LEU	3.1
32	DF	4	LEU	3.1
71	d3	34	LEU	3.1
39	DM	25	VAL	3.1
51	E	18	TYR	3.1
58	c0	63	TYR	3.1
36	DJ	83	LYS	3.1
52	F	22	LYS	3.1
80	h	137	LYS	3.1
80	Rb	97	GLY	3.1
40	AM	45	ARG	3.1
53	G	96	SER	3.1
80	Rb	120	SER	3.1
47	sR	1600	A	3.1
31	DE	97	ASP	3.1
48	B	154	GLU	3.1
6	l	51	ALA	3.1
7	m	134	ALA	3.1
49	C	181	LEU	3.1
70	d2	26	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
1	AR	494	G	3.1
1	AR	3080	G	3.1
16	v	192	LYS	3.1
30	AC	22	LYS	3.1
32	AE	61	LYS	3.1
52	F	133	LYS	3.1
71	Y	27	ASN	3.1
7	CG	273	ARG	3.1
54	H	92	ARG	3.1
71	Y	91	GLY	3.1
52	F	78	THR	3.1
57	K	158	PHE	3.1
74	d6	10	ARG	3.1
19	CS	99	THR	3.1
37	DK	2	THR	3.1
47	sR	172	C	3.1
64	R	115	THR	3.1
67	c9	39	THR	3.1
55	s7	103	SER	3.1
1	1	2205	U	3.1
53	s5	30	PRO	3.1
58	L	88	PRO	3.1
65	c7	65	PRO	3.1
14	CN	166	ALA	3.1
32	DF	85	ALA	3.1
47	A	173	A	3.1
53	s5	36	ALA	3.1
29	AB	78	LEU	3.0
14	CN	63	VAL	3.0
19	y	159	LYS	3.0
45	i	153	LYS	3.0
48	B	30	GLN	3.0
46	p0	47	GLY	3.0
56	s8	51	GLY	3.0
54	s6	80	ASN	3.0
58	L	39	ASN	3.0
71	Y	10	ASN	3.0
80	Rb	61	PHE	3.0
47	sR	1601	G	3.0
52	F	194	THR	3.0
63	Q	28	MET	3.0
60	N	119	SER	3.0

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Mol	Chain	Res	Type	RSRZ
21	0	129	ILE	3.0
68	d0	65	ILE	3.0
20	z	131	ALA	3.0
50	s2	124	ALA	3.0
53	G	71	ALA	3.0
64	c6	86	ALA	3.0
68	V	26	LEU	3.0
7	m	144	VAL	3.0
20	CT	55	VAL	3.0
67	U	61	VAL	3.0
68	V	51	VAL	3.0
73	a	66	VAL	3.0
71	Y	5	LYS	3.0
6	l	304	GLN	3.0
54	H	208	TYR	3.0
64	R	142	TYR	3.0
48	B	102	PHE	3.0
67	c9	48	GLN	3.0
69	W	63	GLY	3.0
50	s2	96	THR	3.0
50	s2	117	THR	3.0
35	DI	20	ILE	3.0
8	CH	2	SER	3.0
12	CL	56	GLU	3.0
14	CN	193	ALA	3.0
46	p0	106	ALA	3.0
46	p0	274	SER	3.0
48	B	128	SER	3.0
64	c6	2	SER	3.0
67	U	44	GLU	3.0
67	c9	50	ALA	3.0
70	X	108	ALA	3.0
76	d8	54	LEU	3.0
79	g	103	LEU	3.0
1	1	1356	U	3.0
1	AR	1954	G	3.0
47	A	677	G	3.0
32	AE	112	ASP	3.0
34	AG	59	VAL	3.0
48	B	129	ASP	3.0
52	F	79	ASP	3.0
67	c9	37	VAL	3.0

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Mol	Chain	Res	Type	RSRZ
72	d4	26	ASP	3.0
1	1	440	A	3.0
57	s9	6	ARG	3.0
40	DN	37	TYR	3.0
54	H	73	ILE	3.0
20	CT	185	LEU	3.0
49	s1	110	LEU	3.0
54	H	178	LEU	3.0
64	R	119	ALA	3.0
80	Rb	2	ALA	3.0
4	CD	251	LYS	3.0
6	l	292	SER	3.0
46	p0	275	SER	3.0
57	s9	10	LYS	3.0
23	5	27	VAL	3.0
47	A	1115	U	3.0
64	c6	97	VAL	3.0
66	T	22	VAL	3.0
5	k	4	ARG	3.0
7	m	273	ARG	3.0
35	DI	31	ARG	3.0
47	sR	1150	G	3.0
50	s2	141	ARG	3.0
59	c1	129	ARG	3.0
64	R	143	ARG	3.0
7	CG	20	PHE	3.0
71	Y	4	GLY	3.0
80	h	55	GLY	3.0
6	l	194	TYR	3.0
58	L	41	TYR	3.0
51	s3	43	PRO	3.0
80	h	30	PRO	3.0
66	T	28	ILE	3.0
45	sM	81	THR	3.0
50	D	240	LEU	3.0
51	E	142	LEU	3.0
52	F	12	LEU	3.0
65	S	26	LEU	3.0
80	Rb	252	LEU	3.0
40	AM	43	ASN	3.0
54	s6	171	LYS	3.0
56	s8	135	LYS	3.0

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Mol	Chain	Res	Type	RSRZ
63	Q	52	LYS	3.0
63	c5	8	LYS	3.0
5	CE	363	SER	3.0
45	i	95	SER	3.0
58	c0	22	VAL	3.0
77	d9	23	VAL	3.0
1	1	3079	U	2.9
1	AR	3064	U	2.9
5	CE	19	ARG	2.9
16	CP	24	ARG	2.9
22	CV	18	ASP	2.9
25	CY	58	HIS	2.9
35	AH	16	ARG	2.9
53	G	92	ARG	2.9
54	H	19	ASP	2.9
54	H	25	ARG	2.9
58	c0	87	HIS	2.9
69	d1	87	ARG	2.9
19	y	156	GLY	2.9
35	AH	78	GLY	2.9
47	sR	1465	C	2.9
1	AR	1560	G	2.9
12	r	11	TYR	2.9
26	CZ	142	ILE	2.9
47	sR	651	G	2.9
53	G	40	ILE	2.9
60	N	89	ILE	2.9
48	B	57	LEU	2.9
51	s3	113	LEU	2.9
56	s8	48	THR	2.9
63	c5	50	THR	2.9
4	CD	26	ALA	2.9
38	AK	86	ALA	2.9
62	P	104	ALA	2.9
67	U	34	VAL	2.9
80	h	104	VAL	2.9
17	CQ	68	ARG	2.9
57	K	132	ARG	2.9
61	O	13	SER	2.9
64	c6	21	HIS	2.9
54	H	152	ASP	2.9
4	j	228	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
7	m	156	GLY	2.9
15	CO	129	TYR	2.9
20	CT	184	LEU	2.9
22	2	96	ILE	2.9
33	AF	126	LEU	2.9
48	s0	67	ILE	2.9
49	C	121	ILE	2.9
21	0	166	LYS	2.9
25	CY	124	LYS	2.9
30	AC	59	LYS	2.9
53	s5	106	LYS	2.9
54	H	74	LYS	2.9
69	W	53	TYR	2.9
78	f	3	LYS	2.9
54	H	40	ALA	2.9
68	d0	67	THR	2.9
80	h	75	ALA	2.9
8	CH	129	GLU	2.9
10	CJ	118	GLU	2.9
22	CV	80	VAL	2.9
47	A	1425	A	2.9
48	s0	164	ASN	2.9
60	N	121	VAL	2.9
68	V	94	GLU	2.9
68	d0	31	VAL	2.9
78	e0	45	VAL	2.9
20	CT	58	HIS	2.9
71	Y	41	SER	2.9
71	d3	18	HIS	2.9
80	h	35	SER	2.9
27	9	7	ASP	2.9
25	7	54	LEU	2.9
53	s5	190	ILE	2.9
62	P	96	PRO	2.9
64	c6	5	PRO	2.9
65	S	109	LEU	2.9
80	Rb	123	ILE	2.9
4	j	28	LYS	2.9
20	CT	82	LYS	2.9
58	L	25	LYS	2.9
78	e0	36	LYS	2.9
22	2	65	TYR	2.9

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Mol	Chain	Res	Type	RSRZ
23	CW	108	TYR	2.9
79	g	85	TYR	2.9
10	CJ	103	ALA	2.9
22	2	125	ALA	2.9
51	s3	114	ALA	2.9
64	c6	119	ALA	2.9
27	9	127	GLU	2.9
68	V	83	GLU	2.9
1	1	1201	C	2.9
47	A	1637	C	2.9
56	J	88	ASN	2.9
39	DM	43	PHE	2.9
49	C	24	PHE	2.9
5	CE	24	SER	2.9
59	c1	2	SER	2.9
11	q	52	LEU	2.9
45	i	161	ILE	2.9
49	C	116	LYS	2.9
55	I	4	PRO	2.9
55	I	101	LYS	2.9
68	V	34	LEU	2.9
12	CL	221	ALA	2.9
54	H	84	TYR	2.9
71	d3	25	ALA	2.9
7	CG	38	THR	2.9
20	z	93	VAL	2.9
38	AK	58	THR	2.9
49	C	114	VAL	2.9
51	s3	175	VAL	2.9
53	s5	146	THR	2.9
63	c5	137	ARG	2.9
47	sR	1599	C	2.8
48	B	155	PHE	2.8
20	CT	164	LEU	2.8
48	B	153	SER	2.8
51	s3	11	LEU	2.8
54	H	216	LEU	2.8
64	R	44	LEU	2.8
68	d0	106	ILE	2.8
10	p	158	ASP	2.8
47	sR	1595	U	2.8
12	r	2	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
14	t	148	ALA	2.8
72	Z	33	ALA	2.8
11	CK	3	TYR	2.8
13	CM	171	VAL	2.8
32	AE	67	VAL	2.8
35	DI	22	VAL	2.8
63	Q	50	THR	2.8
22	2	86	GLU	2.8
20	CT	130	ASN	2.8
46	p0	26	PHE	2.8
74	d6	11	ASN	2.8
80	h	186	PHE	2.8
10	CJ	120	LYS	2.8
20	z	70	LYS	2.8
35	AH	19	LYS	2.8
44	DR	7	LYS	2.8
48	B	54	TRP	2.8
62	c4	92	LYS	2.8
71	d3	110	LYS	2.8
80	Rb	137	LYS	2.8
23	5	11	ILE	2.8
52	F	244	ILE	2.8
55	s7	153	LEU	2.8
62	c4	137	LEU	2.8
64	c6	85	ILE	2.8
66	T	18	LEU	2.8
66	c8	61	LEU	2.8
1	AR	3077	A	2.8
20	CT	59	SER	2.8
75	c	48	SER	2.8
49	C	57	ALA	2.8
22	CV	101	CYS	2.8
54	H	81	VAL	2.8
13	s	167	TYR	2.8
50	D	97	ARG	2.8
52	F	39	ARG	2.8
15	CO	3	THR	2.8
44	AQ	11	THR	2.8
47	sR	1594	G	2.8
10	CJ	105	LYS	2.8
33	AF	26	HIS	2.8
41	AN	128	LYS	2.8

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Mol	Chain	Res	Type	RSRZ
63	c5	6	ASN	2.8
67	U	108	LEU	2.8
16	CP	78	GLY	2.8
28	DB	104	PRO	2.8
79	e1	146	SER	2.8
1	1	551	A	2.8
13	CM	98	ALA	2.8
51	s3	219	ALA	2.8
64	c6	24	ALA	2.8
66	T	83	ALA	2.8
72	Z	134	ALA	2.8
74	b	47	ALA	2.8
80	h	279	ALA	2.8
80	Rb	254	ALA	2.8
44	DR	85	ARG	2.8
50	s2	97	ARG	2.8
6	CF	345	GLU	2.8
14	CN	194	GLU	2.8
16	v	189	LYS	2.8
16	CP	72	LYS	2.8
46	p0	88	PHE	2.8
74	b	13	LYS	2.8
36	AI	92	LEU	2.8
48	s0	24	LEU	2.8
49	C	96	LEU	2.8
53	G	25	LEU	2.8
64	c6	57	LEU	2.8
47	sR	1464	G	2.8
53	G	44	ASN	2.8
65	c7	98	GLY	2.8
79	e1	123	ASN	2.8
57	s9	2	PRO	2.8
10	p	256	ALA	2.8
19	y	39	ARG	2.8
28	DB	13	VAL	2.8
32	AE	101	ALA	2.8
48	s0	189	VAL	2.8
52	F	208	VAL	2.8
55	s7	79	ARG	2.8
56	s8	198	ALA	2.8
63	c5	5	VAL	2.8
64	R	3	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
66	c8	5	VAL	2.8
67	U	37	VAL	2.8
73	a	40	VAL	2.8
45	i	157	ASP	2.8
1	1	2875	U	2.8
58	L	64	TYR	2.8
80	Rb	79	TYR	2.8
20	CT	53	LYS	2.8
25	CY	83	THR	2.8
71	d3	142	LYS	2.8
77	d9	16	LYS	2.8
59	M	115	PHE	2.8
26	8	38	LEU	2.8
63	Q	36	LEU	2.8
8	CH	130	ILE	2.8
14	t	46	ILE	2.8
35	DI	34	HIS	2.8
77	d9	31	ILE	2.8
6	l	79	GLY	2.8
50	s2	75	GLY	2.8
53	G	151	GLY	2.8
67	c9	112	GLY	2.8
10	p	123	GLN	2.7
51	E	137	VAL	2.7
57	K	6	ARG	2.7
61	O	7	ALA	2.7
77	e	6	VAL	2.7
79	e1	130	VAL	2.7
80	Rb	80	ALA	2.7
57	K	162	SER	2.7
15	CO	137	LYS	2.7
80	Rb	283	LYS	2.7
1	AR	2875	U	2.7
35	AH	6	THR	2.7
39	AL	43	PHE	2.7
53	s5	175	LEU	2.7
55	s7	184	GLU	2.7
55	I	105	THR	2.7
63	Q	12	PHE	2.7
67	U	80	TYR	2.7
80	h	14	GLU	2.7
80	Rb	250	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
64	R	37	THR	2.7
66	c8	18	LEU	2.7
52	F	8	HIS	2.7
53	G	68	ILE	2.7
1	1	1802	C	2.7
45	i	98	GLY	2.7
77	d9	29	GLY	2.7
13	CM	9	MET	2.7
14	CN	174	ARG	2.7
57	K	3	ARG	2.7
9	CI	23	ALA	2.7
18	x	161	ALA	2.7
27	DA	120	GLN	2.7
40	AM	39	ALA	2.7
51	E	16	VAL	2.7
64	R	20	ALA	2.7
62	c4	49	LYS	2.7
47	A	702	G	2.7
12	r	200	LEU	2.7
39	AL	11	PHE	2.7
49	s1	207	LEU	2.7
52	F	143	ASP	2.7
52	s4	9	LEU	2.7
60	N	68	GLU	2.7
77	d9	43	PHE	2.7
10	CJ	160	ILE	2.7
23	5	38	ILE	2.7
23	CW	55	THR	2.7
49	C	32	ILE	2.7
61	O	11	ILE	2.7
73	a	71	ILE	2.7
78	f	40	TYR	2.7
47	A	260	U	2.7
21	0	168	PRO	2.7
62	P	113	GLY	2.7
4	CD	7	ASN	2.7
50	D	91	ARG	2.7
64	c6	62	ASN	2.7
40	DN	2	ALA	2.7
45	i	151	ALA	2.7
60	N	30	VAL	2.7
37	DK	25	LYS	2.7

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Mol	Chain	Res	Type	RSRZ
48	B	131	GLN	2.7
55	s7	74	GLN	2.7
78	f	2	ALA	2.7
22	CV	85	LEU	2.7
53	s5	58	LEU	2.7
75	c	73	LEU	2.7
24	6	42	SER	2.7
5	k	328	ILE	2.7
6	l	54	GLU	2.7
55	s7	8	ILE	2.7
61	c3	71	ILE	2.7
57	s9	89	ASP	2.7
80	Rb	51	ASP	2.7
53	s5	94	THR	2.7
54	H	163	THR	2.7
63	c5	15	HIS	2.7
47	A	175	G	2.7
47	sR	260	U	2.7
57	K	166	GLY	2.7
72	d4	30	PRO	2.7
72	d4	122	GLY	2.7
75	c	38	PRO	2.7
3	AT	79	A	2.7
48	s0	127	ARG	2.7
56	s8	22	ARG	2.7
44	AQ	71	VAL	2.7
71	Y	96	VAL	2.7
80	h	157	VAL	2.7
4	j	47	GLN	2.7
52	F	57	ASN	2.7
58	c0	81	ASN	2.7
71	Y	89	ASN	2.7
50	D	225	LEU	2.7
28	DB	136	PHE	2.7
49	s1	223	PHE	2.7
80	h	61	PHE	2.7
14	t	4	SER	2.7
5	k	346	THR	2.7
57	K	61	THR	2.7
62	P	93	THR	2.7
63	Q	78	THR	2.7
64	c6	49	TYR	2.7

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Mol	Chain	Res	Type	RSRZ
68	d0	107	THR	2.7
79	e1	140	TYR	2.7
29	DC	23	GLY	2.7
48	B	44	GLY	2.7
1	1	979	U	2.7
26	CZ	33	ARG	2.6
53	s5	92	ARG	2.6
27	DA	87	LYS	2.6
35	DI	5	VAL	2.6
1	1	2442	G	2.6
20	CT	2	ALA	2.6
49	C	117	TRP	2.6
64	R	39	VAL	2.6
67	U	114	VAL	2.6
69	W	51	VAL	2.6
65	S	15	ALA	2.6
80	Rb	293	ALA	2.6
47	A	1600	A	2.6
64	c6	83	GLN	2.6
54	H	212	LEU	2.6
64	R	52	LEU	2.6
12	r	217	PHE	2.6
47	sR	1159	C	2.6
51	E	217	ILE	2.6
68	V	41	ILE	2.6
7	m	133	GLU	2.6
11	CK	1	MET	2.6
22	CV	79	MET	2.6
49	C	133	TYR	2.6
56	s8	30	GLY	2.6
57	K	8	TYR	2.6
58	L	26	ASP	2.6
66	c8	9	GLY	2.6
74	b	2	PRO	2.6
76	d8	5	THR	2.6
18	x	126	ARG	2.6
18	x	128	ARG	2.6
22	CV	102	ARG	2.6
25	CY	47	ARG	2.6
13	CM	85	LYS	2.6
61	O	38	VAL	2.6
35	DI	2	ALA	2.6

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Mol	Chain	Res	Type	RSRZ
40	AM	2	ALA	2.6
52	s4	14	ALA	2.6
74	d6	56	ALA	2.6
13	CM	6	GLN	2.6
24	CX	7	GLN	2.6
54	s6	190	GLN	2.6
57	s9	139	GLN	2.6
60	N	78	LEU	2.6
63	c5	22	LEU	2.6
65	c7	105	GLN	2.6
7	CG	3	PHE	2.6
59	c1	37	ASN	2.6
10	CJ	237	ILE	2.6
54	s6	175	ILE	2.6
70	X	34	ILE	2.6
1	AR	2263	C	2.6
4	CD	13	GLY	2.6
30	AC	24	PRO	2.6
48	B	104	PRO	2.6
71	Y	42	PRO	2.6
17	w	184	THR	2.6
23	5	98	THR	2.6
55	I	14	THR	2.6
64	c6	68	ARG	2.6
80	Rb	168	THR	2.6
14	t	5	LYS	2.6
35	DI	19	LYS	2.6
46	p0	23	LYS	2.6
54	H	20	ASP	2.6
67	U	35	ASP	2.6
72	d4	135	ASP	2.6
22	2	40	VAL	2.6
24	6	137	VAL	2.6
63	c5	86	VAL	2.6
13	CM	12	LEU	2.6
48	s0	18	LEU	2.6
51	s3	182	LEU	2.6
52	s4	261	LEU	2.6
62	P	137	LEU	2.6
65	S	24	LEU	2.6
69	W	11	LEU	2.6
45	i	110	TRP	2.6

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Mol	Chain	Res	Type	RSRZ
16	CP	133	ILE	2.6
22	2	75	ILE	2.6
23	CW	15	PHE	2.6
56	s8	38	ILE	2.6
80	Rb	122	ILE	2.6
1	1	2207	A	2.6
47	A	1427	A	2.6
47	sR	678	A	2.6
48	B	35	PRO	2.6
48	s0	46	HIS	2.6
55	s7	4	PRO	2.6
67	U	2	PRO	2.6
74	b	98	PRO	2.6
16	CP	184	LYS	2.6
20	CT	52	LYS	2.6
25	CY	12	LYS	2.6
60	N	105	LYS	2.6
72	d4	59	GLY	2.6
79	g	83	LYS	2.6
80	Rb	259	GLY	2.6
13	s	155	THR	2.6
49	s1	126	THR	2.6
68	d0	29	THR	2.6
1	AR	1192	C	2.6
47	sR	1596	C	2.6
62	P	32	ASP	2.6
15	CO	131	VAL	2.6
45	i	154	VAL	2.6
49	s1	20	VAL	2.6
51	E	73	VAL	2.6
62	P	30	VAL	2.6
67	U	6	VAL	2.6
80	Rb	104	VAL	2.6
6	CF	15	ALA	2.6
37	AJ	32	ALA	2.6
48	B	172	LEU	2.6
56	s8	57	ALA	2.6
80	h	32	LEU	2.6
80	Rb	303	ALA	2.6
7	m	297	GLN	2.6
10	p	79	GLN	2.6
48	s0	170	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
51	E	158	ILE	2.6
80	Rb	302	PHE	2.6
4	CD	194	ASN	2.6
10	CJ	63	LYS	2.6
20	z	133	LYS	2.6
29	AB	47	LYS	2.6
58	L	85	HIS	2.6
65	c7	59	LYS	2.6
52	F	243	GLY	2.6
62	c4	52	ARG	2.6
74	d6	98	PRO	2.6
12	r	188	GLY	2.6
47	A	169	A	2.6
58	c0	92	THR	2.6
62	P	119	THR	2.6
64	c6	115	THR	2.6
68	V	81	THR	2.6
78	f	48	THR	2.6
9	CI	26	VAL	2.6
53	G	42	LEU	2.6
64	c6	54	LEU	2.6
80	h	33	LEU	2.6
80	Rb	50	ASP	2.6
12	CL	218	ALA	2.5
20	CT	183	ALA	2.5
31	AD	15	ALA	2.5
32	AE	85	ALA	2.5
40	DN	3	ALA	2.5
1	AR	1582	C	2.5
49	C	164	ILE	2.5
50	s2	98	PHE	2.5
52	s4	248	ILE	2.5
72	Z	60	PHE	2.5
7	m	274	GLN	2.5
80	Rb	313	TRP	2.5
3	AT	81	U	2.5
47	sR	794	U	2.5
28	DB	127	ASN	2.5
44	DR	61	LYS	2.5
54	H	2	LYS	2.5
67	c9	101	ASN	2.5
48	B	32	HIS	2.5

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Mol	Chain	Res	Type	RSRZ
51	s3	27	ARG	2.5
68	V	96	PRO	2.5
4	j	25	GLY	2.5
6	l	103	THR	2.5
20	CT	51	VAL	2.5
28	DB	66	THR	2.5
30	DD	26	THR	2.5
49	C	225	VAL	2.5
53	G	147	THR	2.5
32	AE	20	LEU	2.5
43	AP	35	LEU	2.5
54	H	68	LEU	2.5
70	X	104	LEU	2.5
80	Rb	33	LEU	2.5
19	y	167	SER	2.5
70	X	76	SER	2.5
70	X	96	ALA	2.5
48	B	190	ASP	2.5
7	m	148	ILE	2.5
20	CT	96	ILE	2.5
31	DE	100	ILE	2.5
61	c3	72	MET	2.5
68	d0	84	MET	2.5
48	s0	81	PHE	2.5
56	s8	27	PHE	2.5
59	c1	115	PHE	2.5
64	R	138	PHE	2.5
1	1	1574	C	2.5
1	1	1782	U	2.5
10	CJ	213	LYS	2.5
64	R	95	LYS	2.5
76	d	45	LYS	2.5
77	e	54	LYS	2.5
51	E	76	ARG	2.5
74	b	89	ARG	2.5
4	j	212	GLY	2.5
12	CL	23	ASN	2.5
24	CX	28	ASN	2.5
37	AJ	12	ASN	2.5
54	H	22	HIS	2.5
57	s9	102	GLU	2.5
58	c0	96	GLU	2.5

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Mol	Chain	Res	Type	RSRZ
63	Q	15	HIS	2.5
60	N	104	GLY	2.5
72	d4	34	ASN	2.5
17	CQ	84	LEU	2.5
20	z	29	THR	2.5
33	AF	128	LEU	2.5
48	B	18	LEU	2.5
48	B	24	LEU	2.5
49	C	47	LEU	2.5
52	s4	23	LEU	2.5
54	s6	168	THR	2.5
55	I	153	LEU	2.5
55	s7	90	VAL	2.5
64	c6	19	VAL	2.5
67	U	30	VAL	2.5
67	c9	22	LEU	2.5
75	c	44	THR	2.5
80	h	141	LEU	2.5
58	L	63	TYR	2.5
62	c4	58	TYR	2.5
65	c7	53	TYR	2.5
67	U	91	TYR	2.5
74	d6	73	TYR	2.5
12	CL	219	ALA	2.5
14	t	193	ALA	2.5
72	d4	33	ALA	2.5
80	h	24	ALA	2.5
80	h	212	ALA	2.5
37	DK	93	ILE	2.5
56	s8	101	ILE	2.5
56	s8	176	SER	2.5
58	L	43	ILE	2.5
65	S	96	SER	2.5
77	d9	18	SER	2.5
7	CG	6	ASP	2.5
46	p0	197	PHE	2.5
57	s9	146	PHE	2.5
72	Z	135	ASP	2.5
13	CM	145	LYS	2.5
23	CW	74	LYS	2.5
56	J	199	LYS	2.5
68	V	61	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
80	h	62	LYS	2.5
68	V	79	TRP	2.5
34	AG	48	ARG	2.5
37	DK	36	ARG	2.5
47	sR	1598	U	2.5
52	s4	29	PRO	2.5
3	AT	84	C	2.5
27	9	44	GLY	2.5
47	A	172	C	2.5
47	A	1596	C	2.5
51	s3	20	GLU	2.5
52	s4	25	GLY	2.5
72	Z	67	GLY	2.5
54	H	140	ASN	2.5
70	X	66	ASN	2.5
1	1	1861	G	2.5
47	sR	1717	G	2.5
48	B	143	VAL	2.5
48	s0	182	LEU	2.5
50	s2	61	LEU	2.5
55	I	16	LEU	2.5
60	N	60	VAL	2.5
76	d8	66	LEU	2.5
78	e0	62	VAL	2.5
80	Rb	8	VAL	2.5
53	s5	138	THR	2.5
65	c7	25	THR	2.5
66	c8	77	THR	2.5
10	p	80	TYR	2.5
12	r	187	ALA	2.5
65	c7	90	ALA	2.5
80	Rb	212	ALA	2.5
80	Rb	253	ALA	2.5
11	q	10	ILE	2.5
57	s9	140	ILE	2.5
58	L	92	ILE	2.5
22	2	19	PHE	2.5
62	P	23	PHE	2.5
4	j	195	SER	2.5
38	DL	87	SER	2.5
50	s2	181	SER	2.5
56	s8	123	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
62	c4	11	SER	2.5
66	c8	2	SER	2.5
67	U	97	SER	2.5
13	s	39	GLN	2.5
47	A	1371	A	2.5
49	C	29	TRP	2.5
52	s4	18	TRP	2.5
54	H	159	ARG	2.5
69	W	22	ARG	2.5
79	g	124	PRO	2.5
1	1	2501	U	2.5
10	p	182	GLY	2.5
50	D	208	GLU	2.5
51	E	38	GLU	2.5
27	DA	6	LEU	2.5
46	p0	25	LEU	2.5
50	s2	154	LEU	2.5
19	y	145	ASN	2.5
38	AK	29	VAL	2.5
51	s3	138	VAL	2.5
76	d8	55	VAL	2.5
19	y	155	MET	2.5
47	A	321	C	2.5
10	CJ	36	ILE	2.5
17	CQ	184	THR	2.5
45	i	102	THR	2.5
52	F	146	THR	2.5
80	Rb	317	THR	2.5
53	s5	82	PHE	2.5
56	J	55	TYR	2.5
58	L	65	TYR	2.5
64	R	60	PHE	2.5
66	T	30	TYR	2.5
8	CH	156	LYS	2.4
35	DI	21	LYS	2.4
61	c3	94	LYS	2.4
52	F	3	ARG	2.4
54	H	29	ASP	2.4
54	s6	152	ASP	2.4
65	S	125	SER	2.4
70	X	5	SER	2.4
22	2	127	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
67	U	89	ARG	2.4
80	h	114	ASP	2.4
48	s0	195	TRP	2.4
58	c0	90	PRO	2.4
67	U	31	PRO	2.4
67	c9	53	TRP	2.4
68	V	71	PRO	2.4
47	sR	1189	A	2.4
47	sR	1597	A	2.4
44	AQ	50	GLY	2.4
80	Rb	55	GLY	2.4
10	CJ	189	LEU	2.4
39	AL	14	LEU	2.4
39	DM	73	LEU	2.4
48	B	3	LEU	2.4
49	C	28	GLU	2.4
49	C	70	LEU	2.4
49	C	207	LEU	2.4
52	F	60	GLU	2.4
57	K	70	LEU	2.4
79	e1	103	LEU	2.4
1	1	2873	U	2.4
1	AR	3079	U	2.4
22	CV	124	VAL	2.4
57	K	136	VAL	2.4
54	s6	56	ASN	2.4
58	L	28	ASN	2.4
5	CE	25	ILE	2.4
5	CE	335	ILE	2.4
6	CF	353	ALA	2.4
28	AA	124	ALA	2.4
45	sM	80	ALA	2.4
48	B	170	ILE	2.4
50	D	218	ILE	2.4
57	K	183	ALA	2.4
59	c1	146	ALA	2.4
62	P	83	ILE	2.4
64	c6	36	ILE	2.4
67	U	83	ALA	2.4
68	d0	22	ILE	2.4
14	t	131	LYS	2.4
23	CW	98	THR	2.4

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Mol	Chain	Res	Type	RSRZ
36	DJ	84	LYS	2.4
40	AM	18	LYS	2.4
49	C	143	THR	2.4
50	s2	51	THR	2.4
53	G	176	THR	2.4
54	H	93	LYS	2.4
62	c4	91	THR	2.4
68	V	27	THR	2.4
75	c	32	PHE	2.4
46	p0	18	TYR	2.4
47	A	1634	C	2.4
53	G	209	TYR	2.4
57	s9	114	TYR	2.4
28	DB	135	ARG	2.4
51	E	143	ARG	2.4
64	c6	114	ARG	2.4
71	Y	7	ARG	2.4
6	l	176	SER	2.4
54	H	148	SER	2.4
1	1	2522	G	2.4
1	AR	1561	G	2.4
1	AR	1565	G	2.4
47	A	676	G	2.4
47	A	1112	G	2.4
80	h	92	TRP	2.4
5	CE	47	LEU	2.4
6	CF	233	LEU	2.4
23	CW	50	LEU	2.4
24	6	49	LEU	2.4
48	B	51	GLY	2.4
59	c1	63	LEU	2.4
63	c5	26	LEU	2.4
70	d2	59	GLY	2.4
80	Rb	141	LEU	2.4
12	r	56	GLU	2.4
18	x	165	VAL	2.4
55	s7	136	VAL	2.4
65	S	18	GLU	2.4
68	d0	116	VAL	2.4
76	d8	48	VAL	2.4
79	e1	120	GLU	2.4
47	sR	1193	A	2.4

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Mol	Chain	Res	Type	RSRZ
1	AR	3275	U	2.4
51	s3	49	ILE	2.4
55	I	135	ILE	2.4
63	c5	85	ILE	2.4
64	R	29	ILE	2.4
80	Rb	136	ILE	2.4
13	s	153	LYS	2.4
14	t	31	LYS	2.4
54	H	4	ASN	2.4
56	s8	19	ALA	2.4
61	c3	144	ALA	2.4
63	Q	46	ALA	2.4
79	e1	152	ALA	2.4
43	AP	106	PHE	2.4
53	s5	20	PHE	2.4
10	p	81	THR	2.4
43	DQ	79	THR	2.4
49	C	119	THR	2.4
51	s3	26	THR	2.4
57	K	95	TYR	2.4
56	J	8	ARG	2.4
1	1	1192	C	2.4
1	AR	3063	C	2.4
47	A	310	C	2.4
57	K	48	GLN	2.4
71	Y	63	GLN	2.4
71	d3	63	GLN	2.4
10	p	66	SER	2.4
29	DC	76	ASP	2.4
45	i	101	ASP	2.4
48	B	2	SER	2.4
7	CG	293	LEU	2.4
11	q	191	LEU	2.4
48	B	125	ASP	2.4
54	s6	217	SER	2.4
57	K	157	ASP	2.4
69	d1	86	SER	2.4
49	s1	218	LEU	2.4
24	6	5	GLY	2.4
52	s4	16	HIS	2.4
7	m	64	ILE	2.4
8	n	8	LYS	2.4

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Mol	Chain	Res	Type	RSRZ
11	CK	41	ILE	2.4
16	CP	13	LYS	2.4
59	M	122	ILE	2.4
5	k	42	ALA	2.4
8	CH	24	ALA	2.4
1	AR	621	A	2.4
1	AR	2205	U	2.4
3	AT	80	A	2.4
47	A	72	A	2.4
47	sR	1427	A	2.4
75	c	37	CYS	2.4
15	u	3	THR	2.4
35	DI	71	THR	2.4
49	C	98	THR	2.4
53	G	38	THR	2.4
63	c5	14	THR	2.4
66	T	20	THR	2.4
20	z	78	TYR	2.4
28	DB	18	TYR	2.4
35	DI	9	ARG	2.4
16	CP	74	PRO	2.4
53	s5	158	GLN	2.4
54	H	8	PRO	2.4
61	O	62	GLN	2.4
80	h	69	GLN	2.4
4	CD	180	LEU	2.4
32	AE	4	LEU	2.4
56	J	96	LEU	2.4
64	c6	38	LEU	2.4
80	h	91	LEU	2.4
53	G	98	MET	2.4
1	1	2101	C	2.4
10	CJ	119	GLY	2.4
10	CJ	158	ASP	2.4
18	CR	108	ASP	2.4
25	7	59	HIS	2.4
28	AA	132	SER	2.4
34	DH	105	SER	2.4
43	AP	34	SER	2.4
47	A	131	C	2.4
47	sR	239	C	2.4
66	T	91	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
71	Y	80	GLY	2.4
76	d8	24	GLY	2.4
80	Rb	82	SER	2.4
23	CW	66	VAL	2.4
54	s6	67	VAL	2.4
66	c8	22	VAL	2.4
7	CG	58	LYS	2.4
17	CQ	100	GLU	2.4
14	CN	3	ILE	2.4
42	AO	25	LYS	2.4
80	Rb	310	ILE	2.4
10	CJ	34	PHE	2.4
11	q	45	PHE	2.4
39	DM	59	ALA	2.4
46	p0	79	PHE	2.4
50	D	92	ALA	2.4
54	H	138	ALA	2.4
59	c1	145	ALA	2.4
61	O	57	ALA	2.4
68	V	45	ALA	2.4
1	AR	1349	G	2.4
1	AR	3157	U	2.4
8	CH	97	ASN	2.4
9	o	157	ASN	2.4
40	DN	46	ARG	2.4
48	B	41	ARG	2.4
49	C	49	ASN	2.4
53	s5	21	THR	2.4
53	s5	38	THR	2.4
53	s5	73	THR	2.4
68	V	60	THR	2.4
68	V	68	ARG	2.4
80	h	74	THR	2.4
23	CW	33	TYR	2.3
37	DK	28	TYR	2.3
11	q	118	LEU	2.3
15	u	135	LEU	2.3
18	CR	55	GLN	2.3
48	s0	146	LEU	2.3
53	s5	37	GLN	2.3
63	c5	25	LEU	2.3
29	DC	116	GLY	2.3

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Mol	Chain	Res	Type	RSRZ
51	E	33	GLY	2.3
6	CF	212	ASP	2.3
10	CJ	216	SER	2.3
14	t	97	VAL	2.3
17	CQ	16	VAL	2.3
35	DI	17	SER	2.3
51	s3	16	VAL	2.3
52	F	111	VAL	2.3
54	H	151	ASP	2.3
56	J	200	LYS	2.3
68	V	118	VAL	2.3
71	d3	137	LYS	2.3
77	e	7	TRP	2.3
79	g	82	LYS	2.3
80	h	251	TRP	2.3
5	CE	144	ILE	2.3
22	CV	76	ILE	2.3
22	CV	104	GLU	2.3
32	DF	82	GLU	2.3
1	1	1866	C	2.3
1	AR	1581	C	2.3
47	sR	25	C	2.3
47	sR	1467	C	2.3
9	o	27	ALA	2.3
14	CN	47	ALA	2.3
30	DD	2	ALA	2.3
51	E	144	ALA	2.3
55	I	85	PHE	2.3
55	s7	52	ALA	2.3
72	d4	58	PHE	2.3
80	Rb	162	ALA	2.3
68	V	89	ARG	2.3
24	6	115	THR	2.3
48	s0	80	THR	2.3
53	G	94	THR	2.3
79	e1	151	ASN	2.3
1	AR	3155	U	2.3
6	CF	318	LEU	2.3
26	8	24	LEU	2.3
34	DH	90	PRO	2.3
48	s0	97	PRO	2.3
48	s0	110	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
55	s7	99	LEU	2.3
57	K	105	LEU	2.3
47	A	171	A	2.3
80	Rb	316	MET	2.3
1	1	1349	G	2.3
2	AS	1	G	2.3
7	CG	4	GLN	2.3
32	AE	57	GLN	2.3
36	AI	76	GLN	2.3
53	G	34	GLN	2.3
80	Rb	314	GLN	2.3
19	y	161	LYS	2.3
24	CX	8	GLY	2.3
35	AH	77	GLY	2.3
35	DI	77	GLY	2.3
43	AP	78	LYS	2.3
52	F	34	GLY	2.3
54	H	164	LYS	2.3
56	s8	75	LYS	2.3
60	N	55	GLY	2.3
63	c5	48	GLY	2.3
80	Rb	46	LYS	2.3
15	u	131	VAL	2.3
48	s0	73	VAL	2.3
74	b	18	VAL	2.3
74	d6	18	VAL	2.3
26	8	142	ILE	2.3
48	s0	111	ILE	2.3
70	X	103	ILE	2.3
19	y	74	GLU	2.3
21	0	164	SER	2.3
23	CW	97	SER	2.3
34	AG	3	GLU	2.3
44	DR	20	SER	2.3
45	i	11	ASP	2.3
50	s2	164	SER	2.3
54	s6	17	GLU	2.3
59	c1	50	GLU	2.3
64	c6	98	ASP	2.3
69	d1	10	GLU	2.3
28	DB	101	PHE	2.3
53	G	43	PHE	2.3

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Mol	Chain	Res	Type	RSRZ
58	c0	16	PHE	2.3
63	c5	131	ALA	2.3
72	d4	134	ALA	2.3
32	DF	31	ARG	2.3
54	s6	196	ARG	2.3
57	K	62	ARG	2.3
65	S	95	ARG	2.3
1	1	1745	C	2.3
47	A	1591	C	2.3
50	D	90	THR	2.3
59	c1	72	THR	2.3
7	CG	36	LEU	2.3
51	E	21	LEU	2.3
51	s3	218	LEU	2.3
53	s5	99	MET	2.3
57	s9	97	LEU	2.3
60	N	133	LEU	2.3
79	e1	134	ASN	2.3
1	AR	1124	U	2.3
1	AR	1356	U	2.3
5	k	6	TYR	2.3
47	sR	782	U	2.3
70	d2	29	PRO	2.3
71	d3	29	TYR	2.3
80	h	100	TYR	2.3
11	q	2	LYS	2.3
18	x	180	LYS	2.3
37	DK	15	LYS	2.3
41	DO	128	LYS	2.3
43	AP	100	LYS	2.3
44	DR	3	LYS	2.3
52	F	155	LYS	2.3
58	L	29	GLN	2.3
58	L	44	LYS	2.3
74	d6	12	LYS	2.3
6	l	190	GLY	2.3
18	x	166	VAL	2.3
47	A	1193	A	2.3
47	sR	1196	A	2.3
50	D	101	VAL	2.3
56	J	177	GLY	2.3
57	s9	83	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
74	b	58	VAL	2.3
76	d	30	VAL	2.3
79	g	98	VAL	2.3
68	V	20	ILE	2.3
1	AR	2115	G	2.3
27	DA	11	ASP	2.3
47	sR	1474	G	2.3
49	C	105	PHE	2.3
57	K	104	PHE	2.3
51	s3	88	ALA	2.3
57	s9	145	SER	2.3
62	P	124	ASP	2.3
76	d8	21	SER	2.3
80	h	95	ALA	2.3
62	P	18	ARG	2.3
64	R	45	ARG	2.3
9	o	163	LEU	2.3
12	CL	102	MET	2.3
22	2	31	LEU	2.3
27	DA	57	LEU	2.3
35	AH	51	LEU	2.3
48	B	188	LEU	2.3
59	M	91	LEU	2.3
75	d7	33	LEU	2.3
79	g	117	LEU	2.3
80	Rb	225	LEU	2.3
20	CT	63	THR	2.3
50	D	39	THR	2.3
50	D	117	THR	2.3
55	I	133	THR	2.3
1	AR	3154	C	2.3
47	sR	658	C	2.3
67	c9	2	PRO	2.3
71	Y	64	PRO	2.3
21	0	74	ASN	2.3
32	AE	27	LYS	2.3
45	i	103	LYS	2.3
66	T	56	LYS	2.3
72	d4	128	LYS	2.3
47	sR	1285	U	2.3
58	c0	79	TYR	2.3
79	g	148	TYR	2.3

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Mol	Chain	Res	Type	RSRZ
48	s0	193	GLN	2.3
68	V	18	GLN	2.3
26	CZ	26	VAL	2.3
35	AH	5	VAL	2.3
37	DK	78	GLY	2.3
56	J	60	ILE	2.3
58	c0	89	VAL	2.3
60	N	37	VAL	2.3
67	U	36	ILE	2.3
68	V	87	HIS	2.3
71	Y	45	GLY	2.3
60	N	72	ILE	2.3
1	AR	1580	A	2.3
4	CD	196	TRP	2.3
23	CW	71	PHE	2.3
47	sR	506	A	2.3
53	s5	43	PHE	2.3
54	s6	166	GLU	2.3
58	L	84	GLU	2.3
63	Q	56	PHE	2.3
77	e	43	PHE	2.3
4	CD	247	ARG	2.3
7	m	291	ALA	2.3
19	CS	174	ARG	2.3
26	8	128	ALA	2.3
29	AB	117	ARG	2.3
34	DH	86	ARG	2.3
36	DJ	48	ARG	2.3
53	G	102	ARG	2.3
67	U	50	ALA	2.3
70	X	97	ARG	2.3
4	j	176	ASP	2.3
11	CK	22	SER	2.3
49	s1	89	ASP	2.3
67	U	41	SER	2.3
68	V	120	SER	2.3
71	d3	97	ASP	2.3
73	a	67	ASP	2.3
78	e0	56	MET	2.3
22	2	27	LEU	2.3
31	DE	14	LEU	2.3
47	A	730	G	2.3

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Mol	Chain	Res	Type	RSRZ
54	s6	184	LEU	2.3
78	f	49	LEU	2.3
80	h	222	LEU	2.3
16	v	183	THR	2.3
17	CQ	134	LYS	2.3
24	6	9	THR	2.3
30	AC	25	LYS	2.3
36	AI	11	THR	2.3
39	DM	72	THR	2.3
45	sM	40	PRO	2.3
48	B	152	PRO	2.3
51	E	141	LYS	2.3
56	J	10	LYS	2.3
62	P	57	PRO	2.3
62	P	86	THR	2.3
63	c5	30	THR	2.3
64	R	30	LYS	2.3
68	V	25	THR	2.3
52	F	223	ASN	2.2
63	Q	103	ASN	2.2
20	CT	78	TYR	2.2
50	D	87	GLN	2.2
51	E	87	TYR	2.2
1	1	1292	C	2.2
2	AS	73	C	2.2
45	i	94	HIS	2.2
51	s3	140	GLY	2.2
52	F	27	TYR	2.2
56	J	119	GLN	2.2
56	s8	50	GLY	2.2
57	s9	123	HIS	2.2
60	N	106	ILE	2.2
64	c6	29	ILE	2.2
68	d0	91	ILE	2.2
69	W	36	VAL	2.2
72	Z	106	GLN	2.2
73	d5	40	VAL	2.2
77	d9	20	GLN	2.2
79	g	147	VAL	2.2
47	sR	1060	U	2.2
7	m	185	PHE	2.2
4	j	229	ALA	2.2

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Mol	Chain	Res	Type	RSRZ
4	j	241	ARG	2.2
10	CJ	196	ALA	2.2
14	CN	132	ALA	2.2
16	CP	73	ARG	2.2
24	CX	6	ALA	2.2
56	s8	145	ALA	2.2
65	S	126	ALA	2.2
70	d2	23	ARG	2.2
47	A	623	A	2.2
47	sR	173	A	2.2
5	k	2	SER	2.2
15	CO	135	LEU	2.2
31	AD	51	LEU	2.2
37	AJ	60	LEU	2.2
39	DM	69	LEU	2.2
53	s5	42	LEU	2.2
54	s6	148	SER	2.2
59	M	143	SER	2.2
66	T	3	LEU	2.2
69	W	68	SER	2.2
75	c	33	LEU	2.2
80	Rb	270	LEU	2.2
15	u	133	LYS	2.2
54	H	167	LYS	2.2
10	p	201	THR	2.2
80	h	25	THR	2.2
80	Rb	25	THR	2.2
22	2	42	ILE	2.2
35	DI	78	GLY	2.2
37	AJ	9	ILE	2.2
40	DN	51	ILE	2.2
49	C	161	ILE	2.2
4	CD	19	HIS	2.2
7	CG	119	TYR	2.2
51	s3	130	GLY	2.2
53	s5	137	ILE	2.2
54	s6	179	VAL	2.2
54	s6	182	GLN	2.2
71	d3	22	ASN	2.2
72	d4	106	GLN	2.2
74	b	9	GLY	2.2
78	f	50	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
79	e1	105	TYR	2.2
79	e1	129	GLY	2.2
1	AR	3078	U	2.2
17	w	48	PHE	2.2
1	1	2772	C	2.2
1	AR	2685	C	2.2
1	AR	3278	C	2.2
10	CJ	249	ARG	2.2
11	q	168	ARG	2.2
19	y	180	ARG	2.2
24	6	45	ARG	2.2
25	7	17	ARG	2.2
34	DH	60	ARG	2.2
53	s5	48	PHE	2.2
80	Rb	311	ARG	2.2
10	CJ	198	ALA	2.2
14	t	135	ALA	2.2
17	CQ	187	GLU	2.2
25	7	65	GLU	2.2
35	DI	32	ALA	2.2
35	DI	39	ALA	2.2
64	c6	40	GLU	2.2
71	Y	24	TRP	2.2
7	m	222	LEU	2.2
51	E	202	LEU	2.2
67	U	28	LEU	2.2
70	d2	38	LEU	2.2
71	Y	33	LEU	2.2
72	Z	28	LEU	2.2
72	d4	17	LEU	2.2
80	h	234	LEU	2.2
80	Rb	42	LEU	2.2
5	k	360	ASP	2.2
13	s	168	ASP	2.2
21	0	134	ASP	2.2
56	J	37	LYS	2.2
57	K	68	LYS	2.2
69	d1	40	ASP	2.2
80	h	272	ASP	2.2
11	q	22	SER	2.2
47	A	1592	A	2.2
52	s4	31	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
14	CN	62	THR	2.2
9	o	84	VAL	2.2
27	DA	45	ILE	2.2
34	DH	107	ILE	2.2
46	p0	84	VAL	2.2
53	s5	75	GLY	2.2
57	K	148	VAL	2.2
66	c8	52	VAL	2.2
7	m	151	GLN	2.2
49	C	153	HIS	2.2
56	J	20	GLN	2.2
79	g	145	HIS	2.2
19	CS	145	ASN	2.2
58	L	66	TYR	2.2
65	S	53	TYR	2.2
67	c9	127	ASN	2.2
9	o	220	PHE	2.2
35	DI	58	ARG	2.2
42	AO	6	ARG	2.2
45	sM	68	ARG	2.2
49	s1	26	ARG	2.2
54	H	219	ARG	2.2
56	s8	8	ARG	2.2
76	d8	18	ARG	2.2
1	1	2102	U	2.2
15	CO	136	ALA	2.2
19	CS	175	ALA	2.2
47	A	1370	U	2.2
47	sR	1191	U	2.2
76	d8	10	ALA	2.2
10	CJ	161	GLU	2.2
6	CF	182	LEU	2.2
24	6	69	LEU	2.2
48	B	176	LEU	2.2
52	s4	12	LEU	2.2
57	s9	109	LEU	2.2
58	c0	15	LEU	2.2
1	1	3154	C	2.2
8	CH	29	LYS	2.2
14	CN	185	LYS	2.2
45	i	166	LYS	2.2
59	c1	141	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
12	r	130	ASP	2.2
1	AR	1865	A	2.2
7	m	52	VAL	2.2
7	CG	286	VAL	2.2
27	DA	8	VAL	2.2
46	p0	50	VAL	2.2
46	p0	87	VAL	2.2
46	p0	187	VAL	2.2
47	A	621	A	2.2
53	G	172	ILE	2.2
58	c0	21	VAL	2.2
66	c8	62	THR	2.2
67	U	135	ILE	2.2
70	X	35	ILE	2.2
80	h	306	THR	2.2
80	Rb	135	THR	2.2
70	X	109	GLY	2.2
49	C	92	GLN	2.2
56	J	44	HIS	2.2
17	w	182	ASN	2.2
23	5	94	ARG	2.2
24	6	4	ASN	2.2
25	CY	112	ASN	2.2
30	DD	6	ASN	2.2
38	DL	66	TYR	2.2
43	AP	36	PHE	2.2
52	F	138	TYR	2.2
52	s4	200	ARG	2.2
53	G	104	ASN	2.2
54	H	23	ARG	2.2
55	I	61	PHE	2.2
64	R	114	ARG	2.2
69	d1	35	ASN	2.2
76	d8	32	PHE	2.2
6	l	56	ALA	2.2
10	CJ	125	ALA	2.2
14	t	47	ALA	2.2
50	s2	231	ALA	2.2
51	E	3	ALA	2.2
54	s6	100	ALA	2.2
80	Rb	214	ALA	2.2
11	q	161	LEU	2.2

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Mol	Chain	Res	Type	RSRZ
1	AR	1095	U	2.2
1	AR	3277	U	2.2
20	CT	21	LYS	2.2
30	DD	23	LYS	2.2
33	DG	62	LYS	2.2
47	sR	320	U	2.2
50	D	88	LYS	2.2
54	s6	69	LEU	2.2
56	J	89	GLU	2.2
57	K	92	LYS	2.2
57	s9	28	LEU	2.2
58	L	80	LEU	2.2
62	c4	62	LEU	2.2
47	A	729	G	2.2
47	A	1100	G	2.2
51	E	43	PRO	2.2
1	1	2507	C	2.2
1	AR	982	C	2.2
1	AR	2094	C	2.2
65	S	103	ASP	2.2
69	d1	67	ASP	2.2
80	h	76	ASP	2.2
21	0	85	SER	2.2
21	CU	58	ILE	2.2
22	CV	96	ILE	2.2
46	p0	100	ILE	2.2
55	I	46	ILE	2.2
55	s7	187	SER	2.2
63	Q	92	SER	2.2
68	V	65	ILE	2.2
72	Z	7	ILE	2.2
72	Z	13	ILE	2.2
57	s9	101	VAL	2.2
66	c8	4	VAL	2.2
68	V	56	VAL	2.2
5	k	185	GLY	2.1
6	l	60	THR	2.1
22	CV	23	GLY	2.1
48	s0	82	GLY	2.1
53	G	138	THR	2.1
72	d4	120	GLY	2.1
74	b	16	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
80	h	97	GLY	2.1
1	1	2404	A	2.1
1	AR	2401	A	2.1
49	C	152	ARG	2.1
49	s1	92	GLN	2.1
53	s5	83	ARG	2.1
54	H	137	ARG	2.1
54	H	186	ARG	2.1
54	H	190	GLN	2.1
63	c5	138	PHE	2.1
64	R	66	ARG	2.1
65	c7	62	GLN	2.1
46	p0	22	TYR	2.1
54	s6	1	MET	2.1
56	J	117	TYR	2.1
4	j	26	ALA	2.1
12	r	219	ALA	2.1
22	2	97	LYS	2.1
30	AC	58	LYS	2.1
35	DI	51	LEU	2.1
37	DK	11	LEU	2.1
43	DQ	33	ALA	2.1
52	F	2	ALA	2.1
57	K	74	ASN	2.1
49	s1	228	LEU	2.1
50	s2	99	LYS	2.1
67	U	105	LEU	2.1
69	W	69	LEU	2.1
71	d3	112	LYS	2.1
72	d4	125	LEU	2.1
65	c7	35	CYS	2.1
23	CW	92	TRP	2.1
47	sR	144	U	2.1
48	s0	194	PRO	2.1
53	G	164	PRO	2.1
65	c7	118	PRO	2.1
64	R	43	ILE	2.1
66	c8	14	ILE	2.1
68	d0	24	ILE	2.1
73	d5	41	ILE	2.1
51	s3	137	VAL	2.1
52	s4	227	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
54	s6	89	ASP	2.1
67	U	71	VAL	2.1
76	d8	7	VAL	2.1
5	k	103	THR	2.1
7	m	127	GLY	2.1
7	m	275	THR	2.1
14	t	180	ARG	2.1
43	DQ	84	THR	2.1
47	A	142	G	2.1
47	sR	1195	C	2.1
47	sR	1200	G	2.1
50	s2	52	THR	2.1
50	s2	166	THR	2.1
53	G	73	THR	2.1
56	s8	107	THR	2.1
58	L	95	ARG	2.1
59	M	72	THR	2.1
74	d6	9	GLY	2.1
80	Rb	10	ARG	2.1
24	6	7	GLN	2.1
27	DA	78	PHE	2.1
35	DI	61	GLN	2.1
66	c8	71	GLN	2.1
7	m	131	LEU	2.1
7	CG	31	TYR	2.1
11	CK	2	LYS	2.1
28	AA	27	LYS	2.1
29	DC	77	LYS	2.1
44	AQ	22	LEU	2.1
48	B	138	TYR	2.1
49	s1	195	LYS	2.1
52	F	134	LYS	2.1
53	s5	182	ALA	2.1
56	s8	55	TYR	2.1
57	s9	138	LYS	2.1
56	s8	79	ALA	2.1
59	M	5	LEU	2.1
59	c1	35	TYR	2.1
63	Q	26	LEU	2.1
65	c7	57	LEU	2.1
74	b	4	LYS	2.1
1	1	628	A	2.1

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Mol	Chain	Res	Type	RSRZ
19	y	162	ALA	2.1
74	d6	71	LEU	2.1
76	d	54	LEU	2.1
12	CL	209	ASN	2.1
58	c0	28	ASN	2.1
71	Y	99	ASN	2.1
5	k	213	GLU	2.1
1	1	1801	U	2.1
1	AR	2269	U	2.1
9	o	217	PRO	2.1
16	v	42	PRO	2.1
28	AA	70	PRO	2.1
56	s8	67	TRP	2.1
62	P	94	PRO	2.1
80	Rb	134	TRP	2.1
47	A	144	U	2.1
48	B	63	ILE	2.1
51	s3	115	ILE	2.1
63	Q	84	ILE	2.1
48	B	45	VAL	2.1
49	s1	68	VAL	2.1
51	s3	12	VAL	2.1
60	N	31	VAL	2.1
20	CT	170	ARG	2.1
25	7	47	ARG	2.1
42	DP	17	ARG	2.1
43	DQ	14	GLY	2.1
48	B	27	ARG	2.1
50	D	202	GLY	2.1
52	F	77	ARG	2.1
54	H	87	ARG	2.1
54	s6	55	GLY	2.1
52	F	197	HIS	2.1
57	s9	147	MET	2.1
63	c5	89	MET	2.1
68	V	73	GLY	2.1
15	CO	66	THR	2.1
19	CS	153	PHE	2.1
22	CV	56	PHE	2.1
23	5	107	PHE	2.1
26	CZ	119	THR	2.1
38	AK	84	SER	2.1

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Mol	Chain	Res	Type	RSRZ
55	I	115	SER	2.1
80	Rb	103	PHE	2.1
80	Rb	112	SER	2.1
12	r	162	GLN	2.1
16	CP	77	LYS	2.1
25	CY	27	LYS	2.1
26	CZ	109	LYS	2.1
29	AB	92	LYS	2.1
57	K	138	LYS	2.1
65	S	72	LYS	2.1
19	CS	140	LEU	2.1
35	DI	57	LEU	2.1
52	F	44	LEU	2.1
68	d0	63	LEU	2.1
12	CL	2	ALA	2.1
22	2	121	ALA	2.1
47	A	394	C	2.1
47	sR	1602	C	2.1
50	D	155	ALA	2.1
51	E	30	ALA	2.1
51	E	219	ALA	2.1
80	h	80	ALA	2.1
13	s	116	TYR	2.1
55	s7	173	TYR	2.1
58	c0	41	TYR	2.1
65	c7	84	TYR	2.1
1	1	718	G	2.1
4	CD	140	ASN	2.1
34	DH	106	ASN	2.1
45	i	159	GLU	2.1
59	M	10	GLU	2.1
1	AR	438	A	2.1
1	AR	2119	A	2.1
10	CJ	25	PRO	2.1
58	c0	83	PRO	2.1
20	CT	23	TRP	2.1
53	s5	46	TRP	2.1
50	s2	137	ILE	2.1
52	F	162	ILE	2.1
61	O	16	ILE	2.1
47	A	88	U	2.1
67	U	9	VAL	2.1

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Mol	Chain	Res	Type	RSRZ
76	d8	44	VAL	2.1
46	p0	184	GLY	2.1
52	F	87	MET	2.1
67	U	98	GLY	2.1
71	d3	23	ARG	2.1
72	Z	122	GLY	2.1
75	d7	69	GLY	2.1
77	d9	12	ARG	2.1
80	h	59	ARG	2.1
6	CF	360	LYS	2.1
21	0	4	PHE	2.1
13	CM	168	ASP	2.1
22	CV	120	LYS	2.1
28	DB	4	PHE	2.1
55	I	148	LYS	2.1
59	c1	32	LYS	2.1
59	c1	46	LYS	2.1
80	h	278	PHE	2.1
45	i	81	THR	2.1
48	B	157	ASP	2.1
10	CJ	79	GLN	2.1
49	s1	135	LEU	2.1
51	E	29	LEU	2.1
54	s6	133	LEU	2.1
55	s7	126	LEU	2.1
57	K	7	THR	2.1
57	s9	7	THR	2.1
64	c6	52	LEU	2.1
70	X	2	THR	2.1
76	d8	19	THR	2.1
14	t	40	ALA	2.1
23	CW	46	ALA	2.1
53	G	26	ALA	2.1
61	O	24	ALA	2.1
66	T	146	ALA	2.1
80	Rb	95	ALA	2.1
7	m	119	TYR	2.1
32	AE	69	TYR	2.1
55	I	142	TYR	2.1
74	d6	62	TYR	2.1
1	AR	2772	C	2.1
7	CG	189	GLU	2.1

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Mol	Chain	Res	Type	RSRZ
36	AI	64	GLU	2.1
14	CN	6	ASN	2.1
32	AE	87	ASN	2.1
47	sR	1174	C	2.1
47	sR	1632	C	2.1
60	N	80	ASN	2.1
66	c8	19	ASN	2.1
71	Y	21	ASN	2.1
19	y	61	PRO	2.1
55	I	32	PRO	2.1
57	K	169	PRO	2.1
70	X	29	PRO	2.1
23	5	93	ILE	2.1
56	s8	78	ILE	2.1
63	Q	85	ILE	2.1
64	R	65	ILE	2.1
58	c0	61	TRP	2.1
67	U	53	TRP	2.1
80	Rb	45	TRP	2.1
18	x	51	VAL	2.1
19	y	62	VAL	2.1
20	CT	22	VAL	2.1
28	DB	24	VAL	2.1
48	B	47	VAL	2.1
48	s0	50	VAL	2.1
51	E	164	VAL	2.1
62	P	42	VAL	2.1
68	d0	118	VAL	2.1
73	d5	66	VAL	2.1
1	1	1555	U	2.1
19	y	151	ARG	2.1
20	CT	85	ARG	2.1
28	AA	15	ARG	2.1
37	DK	20	MET	2.1
42	DP	18	ARG	2.1
50	D	205	ARG	2.1
54	s6	94	ARG	2.1
58	c0	97	ARG	2.1
63	c5	80	MET	2.1
5	CE	185	GLY	2.1
15	u	8	LYS	2.1
19	y	8	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
53	G	75	GLY	2.1
53	s5	45	LYS	2.1
54	H	64	LYS	2.1
56	J	51	GLY	2.1
62	P	98	GLY	2.1
62	c4	98	GLY	2.1
64	c6	95	LYS	2.1
80	h	118	LYS	2.1
20	z	132	PHE	2.1
80	Rb	263	PHE	2.1
9	CI	129	LEU	2.0
13	s	12	LEU	2.0
54	s6	111	LEU	2.0
60	N	58	LEU	2.0
7	m	6	ASP	2.0
23	CW	16	THR	2.0
25	7	19	THR	2.0
44	DR	56	THR	2.0
45	i	108	GLN	2.0
56	J	120	THR	2.0
60	N	67	THR	2.0
63	c5	135	THR	2.0
65	c7	8	THR	2.0
66	T	62	THR	2.0
10	p	76	ALA	2.0
10	p	115	ALA	2.0
20	CT	189	ALA	2.0
23	5	12	ALA	2.0
35	AH	32	ALA	2.0
35	DI	82	ALA	2.0
37	DK	42	SER	2.0
43	AP	33	ALA	2.0
48	s0	2	SER	2.0
53	s5	57	SER	2.0
56	J	13	ALA	2.0
60	N	69	ALA	2.0
70	d2	5	SER	2.0
77	e	47	ALA	2.0
26	8	141	TYR	2.0
64	R	49	TYR	2.0
45	i	162	GLU	2.0
70	X	18	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
5	k	305	ILE	2.0
6	l	18	ASN	2.0
11	q	179	ILE	2.0
28	AA	104	PRO	2.0
48	B	207	PRO	2.0
22	CV	77	ASN	2.0
49	C	137	ILE	2.0
56	J	52	ASN	2.0
62	c4	39	ILE	2.0
72	d4	133	ASN	2.0
73	a	41	ILE	2.0
1	1	1196	C	2.0
1	1	1556	C	2.0
1	1	1563	C	2.0
1	AR	2507	C	2.0
32	AE	31	ARG	2.0
43	AP	18	ARG	2.0
46	p0	105	VAL	2.0
46	p0	188	VAL	2.0
47	A	573	C	2.0
47	A	716	C	2.0
47	A	1509	C	2.0
47	sR	1637	C	2.0
16	CP	147	ARG	2.0
48	B	29	VAL	2.0
55	s7	97	ARG	2.0
59	c1	139	VAL	2.0
12	CL	13	LYS	2.0
13	CM	153	LYS	2.0
16	CP	204	LYS	2.0
21	CU	166	LYS	2.0
25	CY	110	LYS	2.0
55	I	111	LYS	2.0
56	s8	17	LYS	2.0
63	c5	24	LYS	2.0
71	d3	31	LYS	2.0
47	A	145	A	2.0
47	A	1635	A	2.0
54	s6	165	GLY	2.0
52	s4	222	LEU	2.0
63	c5	56	PHE	2.0
1	1	1095	U	2.0

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Mol	Chain	Res	Type	RSRZ
47	A	174	U	2.0
47	A	794	U	2.0
47	sR	795	U	2.0
57	K	155	HIS	2.0
66	T	32	LEU	2.0
66	T	61	LEU	2.0
72	Z	125	LEU	2.0
47	A	1114	G	2.0
47	A	1486	G	2.0
6	l	310	THR	2.0
12	r	220	GLN	2.0
12	CL	174	THR	2.0
36	AI	62	GLN	2.0
43	AP	26	THR	2.0
50	D	52	THR	2.0
53	s5	27	THR	2.0
54	H	71	THR	2.0
67	U	96	ALA	2.0
80	h	52	GLN	2.0
80	Rb	99	THR	2.0
4	j	208	ASP	2.0
6	l	362	ASP	2.0
9	o	23	ALA	2.0
11	CK	42	ASP	2.0
14	t	98	ASP	2.0
63	Q	54	ALA	2.0
79	e1	137	ASP	2.0
80	h	285	ALA	2.0
80	Rb	114	ASP	2.0
80	Rb	244	ALA	2.0
19	y	146	SER	2.0
43	DQ	48	SER	2.0
56	s8	155	SER	2.0
5	k	227	GLU	2.0
20	z	86	GLU	2.0
56	s8	28	GLU	2.0
57	K	106	GLU	2.0
67	U	66	TYR	2.0
31	DE	10	ILE	2.0
48	B	42	PRO	2.0
58	c0	4	PRO	2.0
71	d3	60	GLU	2.0

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Mol	Chain	Res	Type	RSRZ
80	h	67	ILE	2.0
65	S	123	ASN	2.0
66	T	90	ASN	2.0
71	Y	94	ASN	2.0
4	CD	72	ARG	2.0
6	l	46	LYS	2.0
7	CG	259	LYS	2.0
20	z	51	VAL	2.0
25	7	41	LYS	2.0
29	DC	24	LYS	2.0
48	B	37	VAL	2.0
49	C	85	LYS	2.0
52	F	145	ARG	2.0
52	F	245	LYS	2.0
52	s4	59	ARG	2.0
53	G	115	LYS	2.0
54	H	97	VAL	2.0
55	s7	47	ARG	2.0
61	O	3	ARG	2.0
64	R	128	LYS	2.0
68	V	114	VAL	2.0
71	Y	62	LYS	2.0
75	c	29	ARG	2.0
80	h	58	VAL	2.0
80	h	154	VAL	2.0
6	CF	80	GLY	2.0
17	CQ	69	GLY	2.0
28	AA	42	LEU	2.0
51	s3	59	LEU	2.0
53	G	184	PHE	2.0
54	H	16	PHE	2.0
54	H	165	GLY	2.0
60	N	97	LEU	2.0
75	d7	41	LEU	2.0
77	d9	8	PHE	2.0
47	sR	1077	C	2.0
66	c8	55	HIS	2.0

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

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

6.3 Carbohydrates (i)

There are no monosaccharides in this entry.

6.4 Ligands (i)

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

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	A	2086	1/1	0.24	0.27	128,128,128,128	0
82	MG	sR	2131	1/1	0.42	0.26	90,90,90,90	0
82	MG	A	2020	1/1	0.45	0.25	104,104,104,104	0
82	MG	AR	3768	1/1	0.50	0.65	104,104,104,104	0
82	MG	1	3683	1/1	0.50	0.38	79,79,79,79	0
82	MG	1	3962	1/1	0.51	0.26	107,107,107,107	0
82	MG	A	2072	1/1	0.51	0.40	109,109,109,109	0
82	MG	1	4016	1/1	0.51	0.27	89,89,89,89	0
81	OHX	1	3582	7/7	0.51	0.24	260,263,270,343	0
81	OHX	4	214	7/7	0.53	0.17	208,216,218,304	0
82	MG	A	2036	1/1	0.55	0.36	85,85,85,85	0
82	MG	1	4057	1/1	0.55	0.30	89,89,89,89	0
82	MG	A	2051	1/1	0.57	0.27	97,97,97,97	0
82	MG	AR	3715	1/1	0.58	0.34	93,93,93,93	0
82	MG	sR	2161	1/1	0.58	0.34	87,87,87,87	0
82	MG	sR	2121	1/1	0.59	0.27	98,98,98,98	0
82	MG	AR	4034	1/1	0.59	0.16	117,117,117,117	0
82	MG	AR	3922	1/1	0.59	0.36	82,82,82,82	0
82	MG	AR	4115	1/1	0.60	0.14	86,86,86,86	0
82	MG	A	2076	1/1	0.60	0.19	91,91,91,91	0
82	MG	AR	3994	1/1	0.60	0.13	85,85,85,85	0
82	MG	A	2008	1/1	0.61	0.37	102,102,102,102	0
81	OHX	AR	4195	7/7	0.62	0.16	253,261,266,349	0
82	MG	AS	3525	1/1	0.62	0.20	87,87,87,87	0
82	MG	AR	3960	1/1	0.62	0.21	83,83,83,83	0
81	OHX	1	4133	7/7	0.63	0.16	232,246,250,329	0
82	MG	A	2085	1/1	0.63	0.18	102,102,102,102	0
81	OHX	AR	3634	7/7	0.63	0.18	237,250,262,351	0
81	OHX	4	202	7/7	0.64	0.17	225,236,247,324	0
82	MG	1	4070	1/1	0.64	0.35	91,91,91,91	0
82	MG	sR	2145	1/1	0.64	0.16	99,99,99,99	0
82	MG	sR	2119	1/1	0.64	0.18	97,97,97,97	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	1	4015	1/1	0.65	0.38	87,87,87,87	0
82	MG	AR	3755	1/1	0.65	0.41	88,88,88,88	0
82	MG	AR	4140	1/1	0.65	0.21	50,50,50,50	0
82	MG	1	3949	1/1	0.65	0.40	78,78,78,78	0
82	MG	A	2087	1/1	0.65	0.24	100,100,100,100	0
82	MG	d4	202	1/1	0.65	0.20	92,92,92,92	0
81	OHX	AR	3630	7/7	0.66	0.23	176,186,198,288	0
81	OHX	1	3602	7/7	0.66	0.20	265,272,280,365	0
82	MG	1	3973	1/1	0.66	0.20	79,79,79,79	0
82	MG	1	3764	1/1	0.66	0.40	102,102,102,102	0
81	OHX	AR	3681	7/7	0.67	0.17	203,212,225,308	0
82	MG	AR	4112	1/1	0.67	0.32	79,79,79,79	0
81	OHX	sR	1986	7/7	0.67	0.16	201,206,214,287	0
81	OHX	sR	2023	7/7	0.67	0.17	216,226,238,304	0
82	MG	AR	3740	1/1	0.68	0.40	64,64,64,64	0
82	MG	AR	3748	1/1	0.68	0.35	63,63,63,63	0
82	MG	1	3948	1/1	0.68	0.23	79,79,79,79	0
82	MG	A	2045	1/1	0.68	0.30	85,85,85,85	0
82	MG	A	2001	1/1	0.69	0.46	71,71,71,71	0
82	MG	AR	4010	1/1	0.69	0.32	57,57,57,57	0
81	OHX	1	3501	7/7	0.69	0.18	159,167,177,262	0
82	MG	sR	2150	1/1	0.69	0.19	73,73,73,73	0
82	MG	b	202	1/1	0.69	0.24	87,87,87,87	0
81	OHX	sR	2169	7/7	0.69	0.16	183,189,200,280	0
82	MG	sR	2104	1/1	0.70	0.17	84,84,84,84	0
82	MG	A	2063	1/1	0.70	0.29	72,72,72,72	0
82	MG	A	2012	1/1	0.70	0.29	68,68,68,68	0
81	OHX	1	3611	7/7	0.70	0.17	218,226,239,311	0
82	MG	A	2027	1/1	0.70	0.22	96,96,96,96	0
82	MG	sR	2147	1/1	0.70	0.30	81,81,81,81	0
82	MG	AR	4051	1/1	0.70	0.16	96,96,96,96	0
81	OHX	AR	3638	7/7	0.70	0.22	163,176,191,270	0
81	OHX	AR	3674	7/7	0.70	0.19	210,218,232,310	0
81	OHX	1	3598	7/7	0.71	0.16	206,211,229,307	0
81	OHX	1	3555	7/7	0.71	0.18	193,201,210,295	0
82	MG	1	4151	1/1	0.71	0.40	89,89,89,89	0
82	MG	6	202	1/1	0.71	0.32	96,96,96,96	0
81	OHX	sR	2001	7/7	0.71	0.18	182,189,199,265	0
82	MG	AR	4050	1/1	0.71	0.35	72,72,72,72	0
81	OHX	AR	3673	7/7	0.71	0.13	211,212,225,296	0
81	OHX	sR	2168	7/7	0.71	0.17	228,237,241,321	0
81	OHX	1	3552	7/7	0.71	0.23	170,177,189,266	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	1	3613	7/7	0.71	0.15	192,202,210,278	0
82	MG	AS	3517	1/1	0.71	0.19	79,79,79,79	0
82	MG	c6	202	1/1	0.71	0.27	94,94,94,94	0
82	MG	AR	3769	1/1	0.71	0.41	85,85,85,85	0
82	MG	AR	4020	1/1	0.72	0.29	79,79,79,79	0
81	OHX	AR	3663	7/7	0.72	0.14	210,217,230,302	0
81	OHX	AR	3653	7/7	0.72	0.17	227,234,240,302	0
82	MG	AR	3971	1/1	0.72	0.39	84,84,84,84	0
82	MG	AR	4097	1/1	0.72	0.44	82,82,82,82	0
82	MG	1	4006	1/1	0.72	0.39	93,93,93,93	0
82	MG	AR	3864	1/1	0.72	0.27	58,58,58,58	0
82	MG	1	4017	1/1	0.73	0.33	77,77,77,77	0
82	MG	1	4051	1/1	0.73	0.26	85,85,85,85	0
82	MG	1	3860	1/1	0.73	0.32	65,65,65,65	0
82	MG	AR	3865	1/1	0.73	0.41	49,49,49,49	0
82	MG	AR	3919	1/1	0.73	0.29	84,84,84,84	0
82	MG	A	2095	1/1	0.73	0.32	76,76,76,76	0
81	OHX	x	209	7/7	0.73	0.12	218,231,243,322	0
82	MG	A	1998	1/1	0.73	0.32	74,74,74,74	0
81	OHX	AR	3683	7/7	0.73	0.20	209,223,235,333	0
82	MG	4	228	1/1	0.73	0.17	67,67,67,67	0
81	OHX	1	3599	7/7	0.73	0.18	205,206,217,309	0
81	OHX	1	3584	7/7	0.73	0.15	184,203,208,281	0
82	MG	AR	4013	1/1	0.73	0.44	82,82,82,82	0
82	MG	1	3711	1/1	0.73	0.32	81,81,81,81	0
81	OHX	1	3615	7/7	0.73	0.19	228,238,250,339	0
82	MG	1	3814	1/1	0.73	0.30	80,80,80,80	0
82	MG	AR	3764	1/1	0.73	0.28	80,80,80,80	0
82	MG	1	3736	1/1	0.74	0.32	63,63,63,63	0
81	OHX	1	3610	7/7	0.74	0.13	253,257,270,345	0
82	MG	t	202	1/1	0.74	0.26	86,86,86,86	0
82	MG	A	2062	1/1	0.74	0.11	82,82,82,82	0
81	OHX	1	3601	7/7	0.74	0.22	156,165,176,261	0
82	MG	sR	2042	1/1	0.74	0.39	80,80,80,80	0
81	OHX	AT	215	7/7	0.74	0.15	189,196,203,292	0
81	OHX	sR	2026	7/7	0.74	0.16	211,218,223,298	0
82	MG	1	4026	1/1	0.75	0.23	72,72,72,72	0
81	OHX	AR	4197	7/7	0.75	0.11	227,239,243,309	0
81	OHX	AS	3510	7/7	0.75	0.19	192,197,211,275	0
81	OHX	3	222	7/7	0.75	0.12	222,231,235,310	0
82	MG	AR	3886	1/1	0.75	0.22	75,75,75,75	0
82	MG	AR	4129	1/1	0.75	0.18	77,77,77,77	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4131	1/1	0.75	0.17	82,82,82,82	0
81	OHX	sR	2177	7/7	0.75	0.12	208,210,216,292	0
82	MG	A	2096	1/1	0.75	0.42	82,82,82,82	0
82	MG	1	3620	1/1	0.75	0.27	72,72,72,72	0
82	MG	AR	3958	1/1	0.75	0.20	71,71,71,71	0
82	MG	1	3628	1/1	0.75	0.31	68,68,68,68	0
82	MG	AR	3962	1/1	0.75	0.36	92,92,92,92	0
82	MG	1	3993	1/1	0.75	0.16	91,91,91,91	0
81	OHX	1	3569	7/7	0.75	0.16	178,185,195,273	0
82	MG	AR	3996	1/1	0.75	0.20	80,80,80,80	0
81	OHX	sR	1999	7/7	0.75	0.19	188,194,204,274	0
81	OHX	AR	3684	7/7	0.75	0.12	203,215,220,304	0
82	MG	A	2039	1/1	0.75	0.13	92,92,92,92	0
82	MG	s8	301	1/1	0.75	0.55	117,117,117,117	0
82	MG	s9	201	1/1	0.75	0.43	79,79,79,79	0
81	OHX	AR	3661	7/7	0.75	0.18	189,196,210,290	0
82	MG	1	4020	1/1	0.75	0.36	88,88,88,88	0
82	MG	AR	3772	1/1	0.76	0.17	70,70,70,70	0
81	OHX	sR	2020	7/7	0.76	0.14	198,206,212,285	0
81	OHX	AR	3640	7/7	0.76	0.17	198,204,219,298	0
82	MG	A	2088	1/1	0.76	0.31	81,81,81,81	0
82	MG	1	3992	1/1	0.76	0.50	102,102,102,102	0
82	MG	AR	3914	1/1	0.76	0.29	59,59,59,59	0
81	OHX	sR	2025	7/7	0.76	0.13	209,214,224,303	0
82	MG	AR	3750	1/1	0.76	0.25	76,76,76,76	0
82	MG	AR	3923	1/1	0.76	0.27	85,85,85,85	0
82	MG	AR	4057	1/1	0.76	0.20	83,83,83,83	0
82	MG	A	2038	1/1	0.76	0.20	76,76,76,76	0
82	MG	AR	3942	1/1	0.76	0.14	76,76,76,76	0
82	MG	AR	3952	1/1	0.76	0.49	80,80,80,80	0
82	MG	A	2047	1/1	0.76	0.32	91,91,91,91	0
82	MG	1	3871	1/1	0.76	0.35	68,68,68,68	0
82	MG	sR	2154	1/1	0.76	0.30	88,88,88,88	0
82	MG	A	2058	1/1	0.76	0.14	92,92,92,92	0
82	MG	1	3872	1/1	0.76	0.25	66,66,66,66	0
81	OHX	AR	3672	7/7	0.76	0.13	215,220,235,315	0
82	MG	1	3754	1/1	0.76	0.33	64,64,64,64	0
82	MG	AR	4162	1/1	0.76	0.47	79,79,79,79	0
82	MG	CF	402	1/1	0.77	0.27	84,84,84,84	0
82	MG	CI	302	1/1	0.77	0.29	58,58,58,58	0
82	MG	CO	201	1/1	0.77	0.21	67,67,67,67	0
81	OHX	AR	3631	7/7	0.77	0.14	200,210,222,306	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	sR	2176	7/7	0.77	0.18	168,172,175,207	7
81	OHX	AR	3679	7/7	0.77	0.12	230,233,251,317	0
82	MG	AR	4075	1/1	0.77	0.21	82,82,82,82	0
82	MG	1	3841	1/1	0.77	0.27	76,76,76,76	0
82	MG	sR	2098	1/1	0.77	0.12	73,73,73,73	0
81	OHX	d0	201	7/7	0.77	0.15	212,218,221,290	0
81	OHX	AR	4202	7/7	0.77	0.61	70,70,72,87	7
82	MG	AR	4124	1/1	0.77	0.29	106,106,106,106	0
82	MG	sR	2130	1/1	0.77	0.23	74,74,74,74	0
81	OHX	AR	3668	7/7	0.77	0.15	182,189,194,282	0
82	MG	sR	2133	1/1	0.77	0.37	97,97,97,97	0
82	MG	A	2040	1/1	0.77	0.28	82,82,82,82	0
81	OHX	1	3556	7/7	0.77	0.17	191,200,207,290	0
81	OHX	A	2121	7/7	0.77	0.18	231,237,244,321	0
82	MG	1	4039	1/1	0.77	0.49	64,64,64,64	0
82	MG	AR	4166	1/1	0.77	0.36	83,83,83,83	0
82	MG	AS	3502	1/1	0.77	0.21	88,88,88,88	0
82	MG	AS	3514	1/1	0.77	0.55	130,130,130,130	0
81	OHX	1	3578	7/7	0.77	0.11	231,240,248,308	0
82	MG	AR	3935	1/1	0.77	0.28	65,65,65,65	0
82	MG	1	3844	1/1	0.78	0.22	72,72,72,72	0
82	MG	1	3966	1/1	0.78	0.37	84,84,84,84	0
82	MG	sR	2033	1/1	0.78	0.40	76,76,76,76	0
82	MG	AR	3809	1/1	0.78	0.31	61,61,61,61	0
82	MG	sR	2059	1/1	0.78	0.14	62,62,62,62	0
82	MG	AR	3836	1/1	0.78	0.16	63,63,63,63	0
82	MG	AR	4058	1/1	0.78	0.33	87,87,87,87	0
82	MG	sR	2109	1/1	0.78	0.29	75,75,75,75	0
82	MG	AS	3519	1/1	0.78	0.28	73,73,73,73	0
81	OHX	AR	4201	7/7	0.78	0.14	192,200,208,288	0
82	MG	AT	229	1/1	0.78	0.40	75,75,75,75	0
82	MG	1	3984	1/1	0.78	0.29	66,66,66,66	0
82	MG	AR	4111	1/1	0.78	0.22	77,77,77,77	0
82	MG	sR	2141	1/1	0.78	0.12	85,85,85,85	0
82	MG	sR	2144	1/1	0.78	0.26	85,85,85,85	0
82	MG	CM	202	1/1	0.78	0.27	74,74,74,74	0
82	MG	1	3709	1/1	0.78	0.20	53,53,53,53	0
82	MG	AR	3904	1/1	0.78	0.24	71,71,71,71	0
81	OHX	AT	212	7/7	0.78	0.18	170,188,191,275	0
82	MG	A	2004	1/1	0.78	0.25	74,74,74,74	0
82	MG	1	3832	1/1	0.78	0.30	54,54,54,54	0
81	OHX	AR	4200	7/7	0.78	0.14	175,176,186,273	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	A	2093	1/1	0.78	0.48	83,83,83,83	0
82	MG	1	3952	1/1	0.78	0.21	71,71,71,71	0
82	MG	1	3755	1/1	0.79	0.24	65,65,65,65	0
82	MG	AR	3861	1/1	0.79	0.34	48,48,48,48	0
82	MG	AT	205	1/1	0.79	0.42	68,68,68,68	0
81	OHX	c3	201	7/7	0.79	0.13	203,210,217,273	0
82	MG	AR	4041	1/1	0.79	0.30	70,70,70,70	0
82	MG	1	4082	1/1	0.79	0.34	86,86,86,86	0
81	OHX	A	1962	7/7	0.79	0.15	200,202,209,267	0
82	MG	AR	3900	1/1	0.79	0.24	79,79,79,79	0
82	MG	DC	203	1/1	0.79	0.37	78,78,78,78	0
82	MG	sR	2035	1/1	0.79	0.27	69,69,69,69	0
82	MG	DP	101	1/1	0.79	0.35	66,66,66,66	0
82	MG	A	1985	1/1	0.79	0.34	66,66,66,66	0
82	MG	sR	2092	1/1	0.79	0.40	83,83,83,83	0
82	MG	sR	2093	1/1	0.79	0.27	83,83,83,83	0
81	OHX	A	1966	7/7	0.79	0.15	201,205,214,291	0
82	MG	1	3626	1/1	0.79	0.25	70,70,70,70	0
82	MG	x	202	1/1	0.79	0.43	93,93,93,93	0
82	MG	sR	2114	1/1	0.79	0.20	63,63,63,63	0
82	MG	AR	4104	1/1	0.79	0.28	88,88,88,88	0
81	OHX	1	3617	7/7	0.79	0.16	179,186,195,267	0
82	MG	sR	2124	1/1	0.79	0.40	82,82,82,82	0
81	OHX	1	3585	7/7	0.79	0.12	239,243,249,307	0
82	MG	1	3867	1/1	0.79	0.42	85,85,85,85	0
82	MG	AR	4119	1/1	0.79	0.34	83,83,83,83	0
82	MG	sR	2136	1/1	0.79	0.20	85,85,85,85	0
82	MG	AR	4120	1/1	0.79	0.32	63,63,63,63	0
81	OHX	AR	3677	7/7	0.79	0.13	186,195,207,294	0
81	OHX	sR	2175	7/7	0.79	0.23	142,149,152,168	7
82	MG	1	3902	1/1	0.79	0.46	74,74,74,74	0
82	MG	1	3931	1/1	0.79	0.60	79,79,79,79	0
82	MG	AR	4161	1/1	0.79	0.30	67,67,67,67	0
82	MG	1	4024	1/1	0.79	0.17	80,80,80,80	0
82	MG	sR	2167	1/1	0.79	0.26	64,64,64,64	0
82	MG	1	3935	1/1	0.79	0.20	73,73,73,73	0
81	OHX	1	3548	7/7	0.79	0.14	197,201,205,291	0
82	MG	AR	3782	1/1	0.79	0.30	70,70,70,70	0
81	OHX	1	3562	7/7	0.79	0.12	216,222,234,324	0
81	OHX	AR	4196	7/7	0.80	0.20	153,165,179,262	0
82	MG	A	2069	1/1	0.80	0.18	75,75,75,75	0
81	OHX	AR	3641	7/7	0.80	0.15	176,184,188,269	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	sR	2172	7/7	0.80	0.11	235,239,246,293	0
82	MG	AB	205	1/1	0.80	0.32	81,81,81,81	0
82	MG	1	3819	1/1	0.80	0.22	60,60,60,60	0
82	MG	AR	3953	1/1	0.80	0.21	70,70,70,70	0
82	MG	1	3987	1/1	0.80	0.23	85,85,85,85	0
81	OHX	A	1968	7/7	0.80	0.11	236,237,247,292	0
81	OHX	AR	4198	7/7	0.80	0.17	181,191,191,280	0
81	OHX	1	4124	7/7	0.80	0.12	192,199,210,281	0
82	MG	A	2099	1/1	0.80	0.29	76,76,76,76	0
82	MG	Y	201	1/1	0.80	0.24	79,79,79,79	0
82	MG	AR	3977	1/1	0.80	0.12	78,78,78,78	0
82	MG	AR	3980	1/1	0.80	0.23	67,67,67,67	0
82	MG	AR	3756	1/1	0.80	0.20	59,59,59,59	0
81	OHX	1	3600	7/7	0.80	0.11	190,198,211,281	0
82	MG	AR	3999	1/1	0.80	0.17	57,57,57,57	0
81	OHX	1	3597	7/7	0.80	0.15	182,190,204,279	0
81	OHX	sR	2018	6/7	0.80	0.16	204,205,213,301	0
81	OHX	sR	2019	7/7	0.80	0.11	224,227,232,312	0
82	MG	1	3896	1/1	0.80	0.23	81,81,81,81	0
82	MG	AR	3786	1/1	0.80	0.31	66,66,66,66	0
82	MG	sR	2112	1/1	0.80	0.35	136,136,136,136	0
82	MG	AR	4049	1/1	0.80	0.26	74,74,74,74	0
82	MG	AR	3801	1/1	0.80	0.36	51,51,51,51	0
82	MG	1	4025	1/1	0.80	0.19	73,73,73,73	0
81	OHX	1	3564	7/7	0.80	0.13	199,200,207,274	0
82	MG	AR	3838	1/1	0.80	0.46	60,60,60,60	0
82	MG	AR	4074	1/1	0.80	0.11	75,75,75,75	0
82	MG	A	2023	1/1	0.80	0.16	71,71,71,71	0
82	MG	1	3928	1/1	0.80	0.33	83,83,83,83	0
82	MG	1	3930	1/1	0.80	0.22	72,72,72,72	0
82	MG	sR	2142	1/1	0.80	0.17	105,105,105,105	0
81	OHX	AT	203	7/7	0.80	0.15	179,183,187,270	0
81	OHX	sR	2024	7/7	0.80	0.14	210,223,227,300	0
81	OHX	1	3593	7/7	0.80	0.13	193,199,208,280	0
82	MG	sR	2149	1/1	0.80	0.20	71,71,71,71	0
82	MG	A	2042	1/1	0.80	0.14	80,80,80,80	0
82	MG	AR	3903	1/1	0.80	0.30	76,76,76,76	0
81	OHX	l	402	7/7	0.80	0.11	203,213,227,297	0
81	OHX	sR	2027	7/7	0.80	0.13	221,223,232,292	0
82	MG	A	2053	1/1	0.80	0.29	80,80,80,80	0
82	MG	AR	4122	1/1	0.80	0.27	73,73,73,73	0
82	MG	A	2059	1/1	0.80	0.14	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	s	300	1/1	0.80	0.14	100,100,100,100	0
82	MG	A	1989	1/1	0.81	0.25	70,70,70,70	0
81	OHX	AT	202	7/7	0.81	0.16	174,186,188,275	0
82	MG	1	3781	1/1	0.81	0.43	57,57,57,57	0
81	OHX	A	1970	7/7	0.81	0.11	207,215,226,295	0
82	MG	AR	3797	1/1	0.81	0.33	45,45,45,45	0
82	MG	1	3630	1/1	0.81	0.29	52,52,52,52	0
82	MG	sR	2051	1/1	0.81	0.26	63,63,63,63	0
82	MG	AR	3976	1/1	0.81	0.19	60,60,60,60	0
82	MG	sR	2060	1/1	0.81	0.30	93,93,93,93	0
82	MG	sR	2086	1/1	0.81	0.16	78,78,78,78	0
82	MG	1	4012	1/1	0.81	0.27	68,68,68,68	0
82	MG	AR	3978	1/1	0.81	0.20	75,75,75,75	0
82	MG	A	2030	1/1	0.81	0.27	76,76,76,76	0
82	MG	A	2031	1/1	0.81	0.15	76,76,76,76	0
82	MG	AR	4128	1/1	0.81	0.22	70,70,70,70	0
82	MG	AR	3817	1/1	0.81	0.39	54,54,54,54	0
82	MG	1	3821	1/1	0.81	0.23	65,65,65,65	0
82	MG	z	202	1/1	0.81	0.23	73,73,73,73	0
82	MG	AR	4150	1/1	0.81	0.29	80,80,80,80	0
82	MG	sR	2123	1/1	0.81	0.17	97,97,97,97	0
82	MG	AR	4153	1/1	0.81	0.20	58,58,58,58	0
82	MG	1	3932	1/1	0.81	0.09	91,91,91,91	0
82	MG	1	3642	1/1	0.81	0.19	64,64,64,64	0
82	MG	AR	3700	1/1	0.81	0.31	69,69,69,69	0
82	MG	AR	3710	1/1	0.81	0.17	53,53,53,53	0
82	MG	AR	4022	1/1	0.81	0.19	74,74,74,74	0
82	MG	AR	4025	1/1	0.81	0.26	78,78,78,78	0
81	OHX	3	206	7/7	0.81	0.12	201,204,208,274	0
82	MG	A	2068	1/1	0.81	0.26	77,77,77,77	0
82	MG	sR	2146	1/1	0.81	0.17	69,69,69,69	0
82	MG	AR	3718	1/1	0.81	0.12	89,89,89,89	0
82	MG	sR	2148	1/1	0.81	0.18	69,69,69,69	0
82	MG	1	4023	1/1	0.81	0.43	72,72,72,72	0
81	OHX	AR	3686	7/7	0.81	0.12	195,201,208,299	0
82	MG	sR	2152	1/1	0.81	0.22	67,67,67,67	0
82	MG	sR	2153	1/1	0.81	0.27	103,103,103,103	0
81	OHX	1	3595	7/7	0.81	0.19	148,155,166,240	0
82	MG	1	3953	1/1	0.81	0.17	64,64,64,64	0
82	MG	1	3865	1/1	0.81	0.18	84,84,84,84	0
82	MG	AR	4069	1/1	0.81	0.32	83,83,83,83	0
81	OHX	1	3583	7/7	0.81	0.16	144,150,161,234	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	sR	2013	7/7	0.81	0.12	212,219,229,298	0
81	OHX	AR	3667	7/7	0.81	0.14	182,187,205,273	0
82	MG	AR	3706	1/1	0.82	0.28	66,66,66,66	0
81	OHX	1	3612	7/7	0.82	0.12	170,172,178,260	0
81	OHX	4	213	7/7	0.82	0.13	156,161,172,257	0
82	MG	A	2033	1/1	0.82	0.31	82,82,82,82	0
81	OHX	1	4131	7/7	0.82	0.14	170,172,182,255	0
82	MG	AR	4027	1/1	0.82	0.14	58,58,58,58	0
82	MG	AR	3727	1/1	0.82	0.20	41,41,41,41	0
82	MG	AR	4184	1/1	0.82	0.27	77,77,77,77	0
82	MG	AR	4188	1/1	0.82	0.27	68,68,68,68	0
82	MG	AR	3738	1/1	0.82	0.24	54,54,54,54	0
81	OHX	1	3603	7/7	0.82	0.12	201,203,218,286	0
82	MG	1	3840	1/1	0.82	0.16	71,71,71,71	0
81	OHX	1	3594	7/7	0.82	0.11	206,219,228,293	0
82	MG	1	3688	1/1	0.82	0.21	66,66,66,66	0
82	MG	AS	3526	1/1	0.82	0.16	73,73,73,73	0
82	MG	1	4042	1/1	0.82	0.26	58,58,58,58	0
82	MG	AT	219	1/1	0.82	0.25	64,64,64,64	0
82	MG	AR	4064	1/1	0.82	0.14	64,64,64,64	0
82	MG	CE	408	1/1	0.82	0.36	78,78,78,78	0
82	MG	1	3957	1/1	0.82	0.13	82,82,82,82	0
82	MG	1	3700	1/1	0.82	0.28	58,58,58,58	0
82	MG	1	4059	1/1	0.82	0.19	79,79,79,79	0
81	OHX	sR	2008	7/7	0.82	0.13	176,179,194,261	0
81	OHX	AR	3649	7/7	0.82	0.15	187,199,208,291	0
82	MG	1	3715	1/1	0.82	0.37	54,54,54,54	0
82	MG	A	2092	1/1	0.82	0.32	76,76,76,76	0
82	MG	A	1979	1/1	0.82	0.13	70,70,70,70	0
81	OHX	CG	303	7/7	0.82	0.12	198,206,217,289	0
82	MG	1	3894	1/1	0.82	0.22	66,66,66,66	0
82	MG	1	3895	1/1	0.82	0.32	91,91,91,91	0
82	MG	sR	2155	1/1	0.82	0.28	80,80,80,80	0
82	MG	1	4003	1/1	0.82	0.19	62,62,62,62	0
82	MG	AR	3988	1/1	0.82	0.10	61,61,61,61	0
81	OHX	DK	201	7/7	0.82	0.13	220,222,242,324	0
81	OHX	AR	3502	7/7	0.82	0.20	110,127,129,205	0
81	OHX	AR	3658	7/7	0.82	0.13	189,194,204,272	0
81	OHX	1	3575	7/7	0.82	0.12	183,192,202,270	0
82	MG	1	3891	1/1	0.83	0.29	63,63,63,63	0
82	MG	1	3705	1/1	0.83	0.16	80,80,80,80	0
81	OHX	A	2130	7/7	0.83	0.12	187,188,201,269	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	A	2134	7/7	0.83	0.12	215,218,228,290	0
81	OHX	A	2135	7/7	0.83	0.10	222,229,241,301	0
82	MG	1	3909	1/1	0.83	0.39	71,71,71,71	0
81	OHX	sR	2171	7/7	0.83	0.14	191,200,205,281	0
81	OHX	sR	1979	7/7	0.83	0.11	198,203,212,286	0
82	MG	AR	4000	1/1	0.83	0.30	80,80,80,80	0
81	OHX	1	4129	7/7	0.83	0.12	179,190,201,285	0
81	OHX	AR	3682	7/7	0.83	0.11	204,209,218,283	0
82	MG	1	3765	1/1	0.83	0.31	60,60,60,60	0
82	MG	A	2101	1/1	0.83	0.19	68,68,68,68	0
82	MG	A	2102	1/1	0.83	0.24	79,79,79,79	0
82	MG	AT	222	1/1	0.83	0.19	89,89,89,89	0
82	MG	AT	224	1/1	0.83	0.15	79,79,79,79	0
82	MG	1	3771	1/1	0.83	0.27	65,65,65,65	0
82	MG	CE	407	1/1	0.83	0.32	59,59,59,59	0
81	OHX	1	3544	7/7	0.83	0.12	182,185,193,271	0
82	MG	sR	2045	1/1	0.83	0.18	63,63,63,63	0
82	MG	AR	4026	1/1	0.83	0.18	82,82,82,82	0
82	MG	sR	2055	1/1	0.83	0.26	76,76,76,76	0
81	OHX	sR	2007	7/7	0.83	0.16	165,174,186,246	0
82	MG	AR	3832	1/1	0.83	0.30	43,43,43,43	0
82	MG	sR	2082	1/1	0.83	0.41	68,68,68,68	0
82	MG	sR	2084	1/1	0.83	0.21	80,80,80,80	0
82	MG	1	3817	1/1	0.83	0.17	69,69,69,69	0
82	MG	AR	4042	1/1	0.83	0.11	74,74,74,74	0
82	MG	3	212	1/1	0.83	0.29	66,66,66,66	0
82	MG	4	216	1/1	0.83	0.37	77,77,77,77	0
82	MG	4	225	1/1	0.83	0.26	70,70,70,70	0
81	OHX	1	3561	7/7	0.83	0.19	142,151,163,225	0
82	MG	A	1991	1/1	0.83	0.31	69,69,69,69	0
82	MG	4	234	1/1	0.83	0.34	62,62,62,62	0
82	MG	sR	2118	1/1	0.83	0.12	93,93,93,93	0
82	MG	1	3958	1/1	0.83	0.20	70,70,70,70	0
81	OHX	1	4122	7/7	0.83	0.16	127,143,153,230	0
82	MG	1	3822	1/1	0.83	0.22	54,54,54,54	0
82	MG	AR	3910	1/1	0.83	0.26	55,55,55,55	0
82	MG	A	2018	1/1	0.83	0.24	85,85,85,85	0
82	MG	AR	4076	1/1	0.83	0.24	75,75,75,75	0
82	MG	AR	4084	1/1	0.83	0.36	86,86,86,86	0
82	MG	1	3967	1/1	0.83	0.32	72,72,72,72	0
81	OHX	AR	3671	7/7	0.83	0.12	160,174,185,264	0
81	OHX	3	221	7/7	0.83	0.12	198,202,208,290	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	1	3566	7/7	0.83	0.15	180,184,195,265	0
82	MG	AR	3924	1/1	0.83	0.28	69,69,69,69	0
82	MG	AR	3928	1/1	0.83	0.40	74,74,74,74	0
81	OHX	AR	3575	7/7	0.83	0.17	156,163,167,254	0
82	MG	1	3645	1/1	0.83	0.39	65,65,65,65	0
82	MG	AR	3947	1/1	0.83	0.24	73,73,73,73	0
82	MG	1	4002	1/1	0.83	0.16	70,70,70,70	0
82	MG	A	2046	1/1	0.83	0.16	78,78,78,78	0
81	OHX	AR	3598	7/7	0.83	0.15	150,164,177,245	0
82	MG	A	2048	1/1	0.83	0.26	79,79,79,79	0
82	MG	AR	3956	1/1	0.83	0.19	82,82,82,82	0
82	MG	AR	4132	1/1	0.83	0.26	64,64,64,64	0
82	MG	AR	4133	1/1	0.83	0.43	57,57,57,57	0
81	OHX	AR	3599	7/7	0.83	0.12	163,169,186,260	0
82	MG	1	3692	1/1	0.83	0.39	88,88,88,88	0
81	OHX	AR	3680	7/7	0.83	0.10	219,228,232,300	0
82	MG	AR	3747	1/1	0.83	0.13	69,69,69,69	0
82	MG	1	3770	1/1	0.84	0.17	63,63,63,63	0
82	MG	AR	3867	1/1	0.84	0.32	55,55,55,55	0
82	MG	AR	4044	1/1	0.84	0.22	75,75,75,75	0
82	MG	AR	4046	1/1	0.84	0.42	80,80,80,80	0
81	OHX	A	2145	7/7	0.84	0.14	183,192,199,274	0
82	MG	1	3899	1/1	0.84	0.10	119,119,119,119	0
81	OHX	J	301	7/7	0.84	0.10	227,233,241,307	0
82	MG	1	3788	1/1	0.84	0.20	60,60,60,60	0
82	MG	AF	202	1/1	0.84	0.21	59,59,59,59	0
82	MG	AR	4061	1/1	0.84	0.21	78,78,78,78	0
82	MG	AK	101	1/1	0.84	0.36	61,61,61,61	0
82	MG	A	1982	1/1	0.84	0.25	67,67,67,67	0
82	MG	1	3918	1/1	0.84	0.41	78,78,78,78	0
82	MG	1	3690	1/1	0.84	0.40	76,76,76,76	0
81	OHX	sR	1963	7/7	0.84	0.16	155,158,167,227	0
81	OHX	sR	2016	7/7	0.84	0.15	141,147,167,229	0
82	MG	sR	2081	1/1	0.84	0.27	56,56,56,56	0
82	MG	A	2000	1/1	0.84	0.26	72,72,72,72	0
81	OHX	z	203	7/7	0.84	0.12	130,132,137,165	7
82	MG	1	3707	1/1	0.84	0.26	77,77,77,77	0
82	MG	sR	2089	1/1	0.84	0.22	78,78,78,78	0
82	MG	A	2006	1/1	0.84	0.30	59,59,59,59	0
81	OHX	AG	202	7/7	0.84	0.17	155,169,173,243	0
82	MG	sR	2095	1/1	0.84	0.23	76,76,76,76	0
82	MG	1	4032	1/1	0.84	0.25	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3647	7/7	0.84	0.12	171,177,186,255	0
82	MG	1	3634	1/1	0.84	0.37	69,69,69,69	0
82	MG	1	4049	1/1	0.84	0.26	76,76,76,76	0
82	MG	A	2026	1/1	0.84	0.10	88,88,88,88	0
82	MG	AR	3751	1/1	0.84	0.18	48,48,48,48	0
82	MG	AR	4121	1/1	0.84	0.17	93,93,93,93	0
82	MG	1	3718	1/1	0.84	0.31	42,42,42,42	0
82	MG	1	3852	1/1	0.84	0.21	65,65,65,65	0
82	MG	AR	3965	1/1	0.84	0.21	64,64,64,64	0
82	MG	AR	3969	1/1	0.84	0.25	62,62,62,62	0
82	MG	AR	3763	1/1	0.84	0.29	68,68,68,68	0
81	OHX	A	1944	7/7	0.84	0.15	180,182,186,246	0
82	MG	sR	2134	1/1	0.84	0.13	62,62,62,62	0
82	MG	1	3744	1/1	0.84	0.31	54,54,54,54	0
82	MG	1	3866	1/1	0.84	0.32	76,76,76,76	0
82	MG	1	3746	1/1	0.84	0.26	70,70,70,70	0
82	MG	AR	3983	1/1	0.84	0.42	86,86,86,86	0
82	MG	AR	3773	1/1	0.84	0.28	81,81,81,81	0
82	MG	AR	3990	1/1	0.84	0.12	75,75,75,75	0
82	MG	1	4155	1/1	0.84	0.29	65,65,65,65	0
82	MG	AR	4171	1/1	0.84	0.30	73,73,73,73	0
82	MG	3	208	1/1	0.84	0.17	65,65,65,65	0
81	OHX	sR	2005	7/7	0.84	0.13	189,193,197,268	0
82	MG	AR	4193	1/1	0.84	0.20	71,71,71,71	0
82	MG	1	3979	1/1	0.84	0.18	65,65,65,65	0
82	MG	1	3651	1/1	0.84	0.24	61,61,61,61	0
82	MG	4	226	1/1	0.84	0.17	55,55,55,55	0
82	MG	1	3888	1/1	0.84	0.39	81,81,81,81	0
82	MG	4	231	1/1	0.84	0.26	73,73,73,73	0
82	MG	4	232	1/1	0.84	0.12	55,55,55,55	0
82	MG	AR	3846	1/1	0.84	0.29	51,51,51,51	0
82	MG	1	3654	1/1	0.84	0.21	68,68,68,68	0
82	MG	1	3672	1/1	0.84	0.39	79,79,79,79	0
81	OHX	A	2127	7/7	0.85	0.13	181,182,190,256	0
81	OHX	AR	3614	7/7	0.85	0.13	176,179,190,252	0
82	MG	1	3725	1/1	0.85	0.35	62,62,62,62	0
82	MG	1	3730	1/1	0.85	0.27	43,43,43,43	0
82	MG	AF	201	1/1	0.85	0.28	57,57,57,57	0
82	MG	1	3731	1/1	0.85	0.39	50,50,50,50	0
82	MG	AR	3946	1/1	0.85	0.23	80,80,80,80	0
82	MG	A	2064	1/1	0.85	0.15	84,84,84,84	0
82	MG	1	3875	1/1	0.85	0.33	70,70,70,70	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4139	1/1	0.85	0.38	63,63,63,63	0
82	MG	1	3881	1/1	0.85	0.19	69,69,69,69	0
82	MG	AR	4142	1/1	0.85	0.18	46,46,46,46	0
82	MG	A	2081	1/1	0.85	0.27	74,74,74,74	0
82	MG	AR	4147	1/1	0.85	0.27	46,46,46,46	0
82	MG	1	4013	1/1	0.85	0.32	67,67,67,67	0
82	MG	AR	3955	1/1	0.85	0.15	63,63,63,63	0
82	MG	1	3732	1/1	0.85	0.30	42,42,42,42	0
81	OHX	A	2131	7/7	0.85	0.13	183,192,199,259	0
82	MG	AR	4164	1/1	0.85	0.39	67,67,67,67	0
82	MG	AR	3716	1/1	0.85	0.33	71,71,71,71	0
82	MG	1	3621	1/1	0.85	0.25	69,69,69,69	0
82	MG	1	4018	1/1	0.85	0.18	79,79,79,79	0
82	MG	AR	3732	1/1	0.85	0.28	80,80,80,80	0
81	OHX	1	4136	7/7	0.85	0.10	184,188,198,268	0
82	MG	1	4022	1/1	0.85	0.23	55,55,55,55	0
81	OHX	1	3614	7/7	0.85	0.13	161,164,180,256	0
81	OHX	A	2140	7/7	0.85	0.15	172,177,180,248	0
81	OHX	sR	2021	7/7	0.85	0.16	185,191,209,289	0
82	MG	1	3905	1/1	0.85	0.12	62,62,62,62	0
81	OHX	sR	2022	7/7	0.85	0.10	215,220,227,303	0
81	OHX	A	2141	7/7	0.85	0.09	256,257,259,308	0
82	MG	AR	3992	1/1	0.85	0.27	77,77,77,77	0
82	MG	AR	3993	1/1	0.85	0.28	77,77,77,77	0
82	MG	1	3926	1/1	0.85	0.20	56,56,56,56	0
82	MG	sR	2070	1/1	0.85	0.28	70,70,70,70	0
82	MG	AT	226	1/1	0.85	0.33	66,66,66,66	0
82	MG	1	4046	1/1	0.85	0.28	61,61,61,61	0
81	OHX	AR	3542	7/7	0.85	0.15	138,138,149,217	0
81	OHX	AR	3637	7/7	0.85	0.15	164,171,187,255	0
82	MG	AR	4008	1/1	0.85	0.18	68,68,68,68	0
82	MG	1	4055	1/1	0.85	0.33	68,68,68,68	0
81	OHX	O	201	7/7	0.85	0.10	217,222,232,288	0
82	MG	AR	3775	1/1	0.85	0.11	45,45,45,45	0
82	MG	CR	203	1/1	0.85	0.23	55,55,55,55	0
82	MG	1	3804	1/1	0.85	0.41	55,55,55,55	0
82	MG	DI	201	1/1	0.85	0.34	62,62,62,62	0
82	MG	AR	3785	1/1	0.85	0.46	54,54,54,54	0
82	MG	1	4065	1/1	0.85	0.43	58,58,58,58	0
81	OHX	A	1952	7/7	0.85	0.14	186,189,203,261	0
81	OHX	A	1961	7/7	0.85	0.10	200,208,216,276	0
82	MG	1	4145	1/1	0.85	0.23	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	3815	1/1	0.85	0.24	53,53,53,53	0
82	MG	1	4147	1/1	0.85	0.15	107,107,107,107	0
82	MG	AR	3825	1/1	0.85	0.39	70,70,70,70	0
81	OHX	1	3589	7/7	0.85	0.19	155,161,167,248	0
82	MG	A	2002	1/1	0.85	0.33	75,75,75,75	0
81	OHX	AR	3578	7/7	0.85	0.14	162,168,181,251	0
82	MG	1	3697	1/1	0.85	0.39	62,62,62,62	0
81	OHX	AR	3670	7/7	0.85	0.11	160,172,179,249	0
81	OHX	sR	2173	7/7	0.85	0.20	130,137,142,166	7
82	MG	1	3959	1/1	0.85	0.18	58,58,58,58	0
81	OHX	sR	2004	7/7	0.85	0.13	194,196,202,266	0
82	MG	AR	4067	1/1	0.85	0.06	126,126,126,126	0
82	MG	1	3842	1/1	0.85	0.14	55,55,55,55	0
82	MG	AR	3876	1/1	0.85	0.15	53,53,53,53	0
82	MG	4	230	1/1	0.85	0.17	85,85,85,85	0
82	MG	AR	3889	1/1	0.85	0.37	61,61,61,61	0
82	MG	AR	4078	1/1	0.85	0.25	51,51,51,51	0
81	OHX	1	3567	7/7	0.85	0.17	157,164,168,250	0
82	MG	A	2037	1/1	0.85	0.20	76,76,76,76	0
82	MG	1	3970	1/1	0.85	0.13	81,81,81,81	0
82	MG	sR	2160	1/1	0.85	0.35	69,69,69,69	0
81	OHX	1	3574	7/7	0.85	0.11	177,182,197,271	0
82	MG	AR	3905	1/1	0.85	0.26	72,72,72,72	0
82	MG	s4	302	1/1	0.85	0.18	73,73,73,73	0
82	MG	AR	3908	1/1	0.85	0.15	61,61,61,61	0
82	MG	n	201	1/1	0.85	0.13	71,71,71,71	0
82	MG	1	3853	1/1	0.85	0.22	84,84,84,84	0
82	MG	1	3712	1/1	0.85	0.18	69,69,69,69	0
82	MG	1	3978	1/1	0.86	0.21	64,64,64,64	0
81	OHX	AR	3596	7/7	0.86	0.12	174,182,189,261	0
82	MG	AR	3830	1/1	0.86	0.29	64,64,64,64	0
82	MG	1	3980	1/1	0.86	0.22	62,62,62,62	0
81	OHX	sR	2003	7/7	0.86	0.14	180,183,191,250	0
81	OHX	AR	3654	7/7	0.86	0.14	161,165,184,259	0
82	MG	1	3762	1/1	0.86	0.40	53,53,53,53	0
82	MG	AR	3849	1/1	0.86	0.37	47,47,47,47	0
82	MG	1	3677	1/1	0.86	0.16	58,58,58,58	0
81	OHX	AR	3655	7/7	0.86	0.14	164,171,184,253	0
81	OHX	A	2136	7/7	0.86	0.14	192,198,203,267	0
82	MG	1	4004	1/1	0.86	0.32	72,72,72,72	0
82	MG	A	2098	1/1	0.86	0.19	85,85,85,85	0
81	OHX	1	3588	7/7	0.86	0.14	172,176,188,262	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	1	4009	1/1	0.86	0.17	58,58,58,58	0
81	OHX	sR	2010	7/7	0.86	0.14	145,153,156,232	0
81	OHX	sR	2012	7/7	0.86	0.11	220,227,229,273	0
82	MG	1	3797	1/1	0.86	0.31	65,65,65,65	0
82	MG	1	3798	1/1	0.86	0.37	56,56,56,56	0
82	MG	CQ	205	1/1	0.86	0.26	50,50,50,50	0
82	MG	1	3903	1/1	0.86	0.22	83,83,83,83	0
82	MG	sR	2043	1/1	0.86	0.26	72,72,72,72	0
82	MG	CY	201	1/1	0.86	0.10	108,108,108,108	0
81	OHX	A	1964	7/7	0.86	0.11	187,193,208,266	0
82	MG	1	3702	1/1	0.86	0.19	68,68,68,68	0
81	OHX	s8	302	7/7	0.86	0.10	216,223,229,295	0
82	MG	sM	302	1/1	0.86	0.16	51,51,51,51	0
82	MG	sR	2068	1/1	0.86	0.25	76,76,76,76	0
82	MG	AR	4063	1/1	0.86	0.13	52,52,52,52	0
82	MG	sR	2074	1/1	0.86	0.18	49,49,49,49	0
82	MG	AR	3917	1/1	0.86	0.38	79,79,79,79	0
82	MG	1	3922	1/1	0.86	0.20	52,52,52,52	0
82	MG	A	1988	1/1	0.86	0.34	80,80,80,80	0
82	MG	AR	3921	1/1	0.86	0.14	57,57,57,57	0
82	MG	A	1990	1/1	0.86	0.19	62,62,62,62	0
82	MG	1	3923	1/1	0.86	0.28	55,55,55,55	0
82	MG	A	1996	1/1	0.86	0.24	69,69,69,69	0
81	OHX	AR	3633	7/7	0.86	0.13	160,165,175,247	0
81	OHX	c5	201	7/7	0.86	0.10	194,202,210,264	0
81	OHX	1	3560	7/7	0.86	0.14	158,166,170,244	0
82	MG	sR	2105	1/1	0.86	0.23	67,67,67,67	0
82	MG	AR	3930	1/1	0.86	0.30	61,61,61,61	0
82	MG	sR	2110	1/1	0.86	0.17	80,80,80,80	0
81	OHX	AR	3664	7/7	0.86	0.11	205,214,221,289	0
82	MG	1	3834	1/1	0.86	0.27	68,68,68,68	0
82	MG	1	4045	1/1	0.86	0.14	49,49,49,49	0
81	OHX	U	201	7/7	0.86	0.12	218,223,227,290	0
82	MG	A	2016	1/1	0.86	0.23	76,76,76,76	0
82	MG	1	3936	1/1	0.86	0.33	80,80,80,80	0
82	MG	1	3946	1/1	0.86	0.11	55,55,55,55	0
82	MG	sR	2128	1/1	0.86	0.29	72,72,72,72	0
82	MG	sR	2129	1/1	0.86	0.23	81,81,81,81	0
82	MG	1	4054	1/1	0.86	0.35	75,75,75,75	0
81	OHX	A	1975	7/7	0.86	0.12	168,174,180,242	0
81	OHX	CG	302	7/7	0.86	0.10	215,218,224,290	0
82	MG	1	4058	1/1	0.86	0.18	56,56,56,56	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	3961	1/1	0.86	0.29	81,81,81,81	0
82	MG	1	3729	1/1	0.86	0.38	64,64,64,64	0
82	MG	AR	3963	1/1	0.86	0.25	57,57,57,57	0
82	MG	AR	3964	1/1	0.86	0.17	72,72,72,72	0
82	MG	1	3846	1/1	0.86	0.36	74,74,74,74	0
82	MG	AR	3770	1/1	0.86	0.38	41,41,41,41	0
82	MG	AR	3970	1/1	0.86	0.10	73,73,73,73	0
82	MG	AR	4141	1/1	0.86	0.19	48,48,48,48	0
82	MG	1	3847	1/1	0.86	0.14	58,58,58,58	0
82	MG	AR	3975	1/1	0.86	0.32	64,64,64,64	0
82	MG	1	3850	1/1	0.86	0.33	52,52,52,52	0
81	OHX	1	3607	7/7	0.86	0.12	191,204,216,298	0
82	MG	1	3631	1/1	0.86	0.15	64,64,64,64	0
82	MG	1	3859	1/1	0.86	0.29	59,59,59,59	0
82	MG	A	2056	1/1	0.86	0.12	83,83,83,83	0
82	MG	A	2057	1/1	0.86	0.15	64,64,64,64	0
81	OHX	sR	1991	7/7	0.86	0.13	151,154,162,226	0
81	OHX	sR	1997	7/7	0.86	0.14	174,182,193,256	0
82	MG	1	3971	1/1	0.86	0.20	70,70,70,70	0
82	MG	AR	3807	1/1	0.86	0.30	68,68,68,68	0
82	MG	c6	201	1/1	0.86	0.24	81,81,81,81	0
82	MG	3	217	1/1	0.86	0.17	61,61,61,61	0
81	OHX	AR	3650	7/7	0.86	0.12	160,168,186,257	0
82	MG	d4	203	1/1	0.86	0.34	73,73,73,73	0
85	ZN	d7	101	1/1	0.86	0.15	202,202,202,202	0
81	OHX	CK	201	7/7	0.87	0.11	172,177,183,260	0
81	OHX	1	3590	7/7	0.87	0.15	165,170,179,249	0
82	MG	1	3986	1/1	0.87	0.25	64,64,64,64	0
82	MG	AR	4113	1/1	0.87	0.27	73,73,73,73	0
82	MG	t	203	1/1	0.87	0.14	56,56,56,56	0
81	OHX	sR	1980	7/7	0.87	0.14	144,150,167,240	0
82	MG	1	3988	1/1	0.87	0.14	74,74,74,74	0
82	MG	1	3720	1/1	0.87	0.16	54,54,54,54	0
82	MG	A	2055	1/1	0.87	0.09	76,76,76,76	0
82	MG	6	203	1/1	0.87	0.40	66,66,66,66	0
81	OHX	A	1939	7/7	0.87	0.14	142,148,155,215	0
82	MG	AR	4126	1/1	0.87	0.16	59,59,59,59	0
82	MG	1	3997	1/1	0.87	0.21	55,55,55,55	0
81	OHX	sR	1989	7/7	0.87	0.12	157,158,163,241	0
82	MG	1	3870	1/1	0.87	0.14	74,74,74,74	0
82	MG	AR	3936	1/1	0.87	0.17	54,54,54,54	0
82	MG	A	2067	1/1	0.87	0.11	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3526	7/7	0.87	0.15	130,139,147,217	0
82	MG	AR	4137	1/1	0.87	0.35	68,68,68,68	0
81	OHX	sR	1996	7/7	0.87	0.12	175,178,191,258	0
82	MG	AR	3708	1/1	0.87	0.28	64,64,64,64	0
81	OHX	AR	3656	7/7	0.87	0.09	196,208,215,276	0
82	MG	1	4010	1/1	0.87	0.22	73,73,73,73	0
82	MG	AR	4145	1/1	0.87	0.35	61,61,61,61	0
82	MG	AR	3954	1/1	0.87	0.20	60,60,60,60	0
82	MG	1	3879	1/1	0.87	0.10	56,56,56,56	0
82	MG	AR	4152	1/1	0.87	0.45	64,64,64,64	0
81	OHX	A	1955	7/7	0.87	0.15	137,151,156,198	0
82	MG	AR	3721	1/1	0.87	0.16	62,62,62,62	0
82	MG	1	3739	1/1	0.87	0.21	41,41,41,41	0
82	MG	A	2097	1/1	0.87	0.29	71,71,71,71	0
81	OHX	1	3592	7/7	0.87	0.15	165,171,180,243	0
81	OHX	AR	3660	7/7	0.87	0.12	166,170,179,256	0
82	MG	1	3748	1/1	0.87	0.31	77,77,77,77	0
82	MG	AR	4177	1/1	0.87	0.23	60,60,60,60	0
82	MG	1	3750	1/1	0.87	0.33	49,49,49,49	0
82	MG	1	3897	1/1	0.87	0.14	76,76,76,76	0
82	MG	AR	4189	1/1	0.87	0.17	63,63,63,63	0
82	MG	AR	4191	1/1	0.87	0.17	70,70,70,70	0
81	OHX	1	3520	7/7	0.87	0.14	153,155,158,235	0
81	OHX	AR	4175	7/7	0.87	0.12	147,156,162,237	0
82	MG	1	3761	1/1	0.87	0.31	55,55,55,55	0
82	MG	sR	2050	1/1	0.87	0.28	61,61,61,61	0
82	MG	AR	3972	1/1	0.87	0.34	59,59,59,59	0
81	OHX	1	3609	7/7	0.87	0.12	179,189,199,272	0
82	MG	AS	3520	1/1	0.87	0.17	67,67,67,67	0
82	MG	AR	3760	1/1	0.87	0.23	43,43,43,43	0
82	MG	1	4031	1/1	0.87	0.20	62,62,62,62	0
81	OHX	1	4134	5/7	0.87	0.14	140,143,147,230	0
82	MG	AR	3765	1/1	0.87	0.20	51,51,51,51	0
82	MG	1	4037	1/1	0.87	0.30	42,42,42,42	0
81	OHX	sR	2009	7/7	0.87	0.10	171,184,192,262	0
82	MG	1	4040	1/1	0.87	0.36	60,60,60,60	0
82	MG	1	3920	1/1	0.87	0.23	57,57,57,57	0
82	MG	CD	301	1/1	0.87	0.41	62,62,62,62	0
82	MG	CE	401	1/1	0.87	0.07	47,47,47,47	0
82	MG	1	3633	1/1	0.87	0.27	48,48,48,48	0
81	OHX	A	1974	7/7	0.87	0.11	189,199,205,256	0
82	MG	AR	3776	1/1	0.87	0.28	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	sR	2103	1/1	0.87	0.12	75,75,75,75	0
82	MG	AR	3997	1/1	0.87	0.34	66,66,66,66	0
82	MG	AR	3778	1/1	0.87	0.29	76,76,76,76	0
82	MG	AR	3781	1/1	0.87	0.28	42,42,42,42	0
82	MG	AR	4003	1/1	0.87	0.12	65,65,65,65	0
81	OHX	sR	2011	7/7	0.87	0.12	158,165,181,241	0
82	MG	1	3643	1/1	0.87	0.13	53,53,53,53	0
82	MG	1	3789	1/1	0.87	0.26	46,46,46,46	0
82	MG	AR	4015	1/1	0.87	0.29	70,70,70,70	0
81	OHX	AR	3665	7/7	0.87	0.11	170,178,190,267	0
82	MG	1	3650	1/1	0.87	0.28	62,62,62,62	0
81	OHX	1	4135	7/7	0.87	0.15	176,180,189,262	0
81	OHX	AR	3642	7/7	0.87	0.12	147,154,160,244	0
81	OHX	AR	3669	7/7	0.87	0.11	225,234,239,295	0
82	MG	AR	4030	1/1	0.87	0.15	63,63,63,63	0
82	MG	AR	3816	1/1	0.87	0.29	52,52,52,52	0
81	OHX	AR	3643	7/7	0.87	0.13	180,191,201,267	0
81	OHX	AR	4203	7/7	0.87	0.12	163,179,185,271	0
81	OHX	AR	4204	7/7	0.87	0.33	135,141,143,170	7
82	MG	sR	2139	1/1	0.87	0.13	70,70,70,70	0
82	MG	1	3824	1/1	0.87	0.22	62,62,62,62	0
82	MG	1	3831	1/1	0.87	0.30	80,80,80,80	0
81	OHX	1	3559	7/7	0.87	0.14	143,146,159,226	0
81	OHX	AR	3648	7/7	0.87	0.12	172,173,181,270	0
82	MG	AR	4052	1/1	0.87	0.18	55,55,55,55	0
82	MG	1	3695	1/1	0.87	0.25	64,64,64,64	0
82	MG	A	2007	1/1	0.87	0.23	71,71,71,71	0
81	OHX	1	4142	7/7	0.87	0.11	191,205,217,301	0
81	OHX	A	2142	7/7	0.87	0.19	138,141,146,174	7
82	MG	4	220	1/1	0.87	0.32	70,70,70,70	0
81	OHX	AR	3618	7/7	0.87	0.12	158,160,174,238	0
82	MG	AR	3873	1/1	0.87	0.16	82,82,82,82	0
82	MG	A	2022	1/1	0.87	0.29	64,64,64,64	0
82	MG	sR	2156	1/1	0.87	0.40	71,71,71,71	0
81	OHX	AR	3652	7/7	0.87	0.11	173,180,185,267	0
82	MG	A	2024	1/1	0.87	0.15	67,67,67,67	0
82	MG	sR	2166	1/1	0.87	0.13	58,58,58,58	0
82	MG	AR	4072	1/1	0.87	0.07	65,65,65,65	0
82	MG	1	3972	1/1	0.87	0.25	74,74,74,74	0
81	OHX	sR	2028	7/7	0.87	0.11	182,188,196,261	0
82	MG	1	3975	1/1	0.87	0.25	67,67,67,67	0
81	OHX	AR	3678	7/7	0.87	0.10	222,226,233,281	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	1	3525	7/7	0.87	0.13	143,145,158,222	0
82	MG	AR	4094	1/1	0.87	0.18	89,89,89,89	0
82	MG	AR	4095	1/1	0.87	0.18	59,59,59,59	0
82	MG	d6	201	1/1	0.87	0.30	63,63,63,63	0
82	MG	d6	203	1/1	0.87	0.18	65,65,65,65	0
82	MG	l	401	1/1	0.87	0.33	47,47,47,47	0
82	MG	AR	3863	1/1	0.88	0.33	43,43,43,43	0
81	OHX	1	3608[A]	7/7	0.88	0.20	132,135,141,177	7
82	MG	4	221	1/1	0.88	0.33	46,46,46,46	0
81	OHX	AR	3613	7/7	0.88	0.12	147,148,155,235	0
81	OHX	sR	1972	7/7	0.88	0.11	158,168,172,227	0
82	MG	AR	3875	1/1	0.88	0.37	68,68,68,68	0
81	OHX	A	1943	7/7	0.88	0.13	181,188,194,253	0
82	MG	AR	3877	1/1	0.88	0.29	69,69,69,69	0
82	MG	AR	4079	1/1	0.88	0.17	84,84,84,84	0
82	MG	AR	4080	1/1	0.88	0.16	56,56,56,56	0
82	MG	AR	3884	1/1	0.88	0.20	61,61,61,61	0
82	MG	AR	4090	1/1	0.88	0.30	75,75,75,75	0
81	OHX	1	4123	7/7	0.88	0.14	170,175,184,263	0
81	OHX	A	1949	7/7	0.88	0.12	189,190,195,258	0
82	MG	AR	3894	1/1	0.88	0.12	64,64,64,64	0
81	OHX	1	3608[B]	7/7	0.88	0.20	132,136,138,169	7
82	MG	AR	4107	1/1	0.88	0.32	79,79,79,79	0
81	OHX	AR	3623	7/7	0.88	0.11	166,175,187,245	0
82	MG	j	301	1/1	0.88	0.41	64,64,64,64	0
82	MG	A	2052	1/1	0.88	0.24	60,60,60,60	0
82	MG	1	3856	1/1	0.88	0.16	48,48,48,48	0
81	OHX	sR	2178	7/7	0.88	0.10	222,230,236,314	0
82	MG	AR	3909	1/1	0.88	0.38	72,72,72,72	0
82	MG	1	3726	1/1	0.88	0.32	47,47,47,47	0
82	MG	1	3864	1/1	0.88	0.09	60,60,60,60	0
81	OHX	AR	3688	7/7	0.88	0.12	173,177,185,281	0
81	OHX	AR	3626	7/7	0.88	0.11	148,159,167,245	0
82	MG	AR	4125	1/1	0.88	0.27	94,94,94,94	0
82	MG	x	207	1/1	0.88	0.40	89,89,89,89	0
82	MG	A	2066	1/1	0.88	0.29	72,72,72,72	0
81	OHX	1	4128	7/7	0.88	0.11	145,160,169,252	0
82	MG	1	3995	1/1	0.88	0.44	50,50,50,50	0
81	OHX	4	215	7/7	0.88	0.13	165,169,180,262	0
82	MG	AB	204	1/1	0.88	0.14	58,58,58,58	0
81	OHX	sR	2002	7/7	0.88	0.14	166,168,176,259	0
82	MG	A	2080	1/1	0.88	0.42	67,67,67,67	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4135	1/1	0.88	0.35	71,71,71,71	0
82	MG	AR	4136	1/1	0.88	0.26	41,41,41,41	0
81	OHX	1	3580	7/7	0.88	0.14	157,163,168,240	0
82	MG	1	3873	1/1	0.88	0.38	67,67,67,67	0
82	MG	1	3743	1/1	0.88	0.25	55,55,55,55	0
82	MG	AR	3692	1/1	0.88	0.10	51,51,51,51	0
82	MG	1	3876	1/1	0.88	0.21	71,71,71,71	0
82	MG	AR	4144	1/1	0.88	0.25	41,41,41,41	0
81	OHX	1	3539	7/7	0.88	0.16	142,147,150,225	0
81	OHX	AR	3635	7/7	0.88	0.11	171,180,187,257	0
81	OHX	sR	2006	7/7	0.88	0.11	181,190,204,266	0
82	MG	1	4014	1/1	0.88	0.25	83,83,83,83	0
81	OHX	1	3543	7/7	0.88	0.18	148,158,165,249	0
82	MG	AR	4156	1/1	0.88	0.19	52,52,52,52	0
82	MG	AR	3717	1/1	0.88	0.32	63,63,63,63	0
82	MG	1	3752	1/1	0.88	0.08	42,42,42,42	0
81	OHX	A	2100	7/7	0.88	0.12	177,179,186,251	0
81	OHX	A	2116	7/7	0.88	0.11	170,177,186,247	0
82	MG	1	3636	1/1	0.88	0.32	72,72,72,72	0
82	MG	AR	3733	1/1	0.88	0.11	62,62,62,62	0
82	MG	1	4021	1/1	0.88	0.14	71,71,71,71	0
82	MG	AR	4187	1/1	0.88	0.20	41,41,41,41	0
82	MG	AR	3966	1/1	0.88	0.20	59,59,59,59	0
81	OHX	1	3554	7/7	0.88	0.14	165,169,174,256	0
82	MG	sR	2056	1/1	0.88	0.22	52,52,52,52	0
82	MG	AR	3743	1/1	0.88	0.23	41,41,41,41	0
81	OHX	A	2126	7/7	0.88	0.10	195,199,207,274	0
82	MG	sR	2064	1/1	0.88	0.20	73,73,73,73	0
81	OHX	1	3504	7/7	0.88	0.17	129,134,144,226	0
82	MG	AR	3974	1/1	0.88	0.23	81,81,81,81	0
82	MG	1	3769	1/1	0.88	0.28	44,44,44,44	0
81	OHX	1	3586	7/7	0.88	0.11	158,166,181,253	0
82	MG	1	3915	1/1	0.88	0.20	68,68,68,68	0
81	OHX	1	4137	7/7	0.88	0.11	170,175,188,259	0
82	MG	1	3653	1/1	0.88	0.54	70,70,70,70	0
82	MG	sR	2088	1/1	0.88	0.19	77,77,77,77	0
82	MG	AR	3762	1/1	0.88	0.13	69,69,69,69	0
82	MG	sR	2090	1/1	0.88	0.12	73,73,73,73	0
82	MG	AT	218	1/1	0.88	0.27	49,49,49,49	0
82	MG	1	4038	1/1	0.88	0.31	56,56,56,56	0
82	MG	1	3921	1/1	0.88	0.29	78,78,78,78	0
82	MG	AT	223	1/1	0.88	0.21	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	sR	2102	1/1	0.88	0.17	70,70,70,70	0
81	OHX	A	2132	7/7	0.88	0.12	178,188,192,264	0
82	MG	1	3663	1/1	0.88	0.24	63,63,63,63	0
82	MG	AT	227	1/1	0.88	0.25	72,72,72,72	0
82	MG	1	3924	1/1	0.88	0.12	72,72,72,72	0
82	MG	1	3794	1/1	0.88	0.38	56,56,56,56	0
82	MG	1	3666	1/1	0.88	0.28	68,68,68,68	0
82	MG	CE	402	1/1	0.88	0.28	52,52,52,52	0
81	OHX	A	2133	7/7	0.88	0.11	220,224,229,297	0
81	OHX	AS	3530	7/7	0.88	0.15	194,201,206,302	0
82	MG	1	3680	1/1	0.88	0.20	66,66,66,66	0
82	MG	AR	4006	1/1	0.88	0.14	61,61,61,61	0
82	MG	CL	303	1/1	0.88	0.22	43,43,43,43	0
82	MG	sR	2127	1/1	0.88	0.17	60,60,60,60	0
82	MG	CM	201	1/1	0.88	0.33	77,77,77,77	0
82	MG	1	3934	1/1	0.88	0.31	67,67,67,67	0
82	MG	1	3681	1/1	0.88	0.20	61,61,61,61	0
81	OHX	1	4138	7/7	0.88	0.13	138,138,141,176	7
82	MG	1	4060	1/1	0.88	0.12	52,52,52,52	0
82	MG	AR	4016	1/1	0.88	0.23	67,67,67,67	0
82	MG	DA	201	1/1	0.88	0.17	67,67,67,67	0
82	MG	AR	4017	1/1	0.88	0.10	60,60,60,60	0
82	MG	1	3937	1/1	0.88	0.21	80,80,80,80	0
82	MG	AR	4021	1/1	0.88	0.27	63,63,63,63	0
82	MG	AR	3787	1/1	0.88	0.25	45,45,45,45	0
81	OHX	1	3605	7/7	0.88	0.12	157,172,185,260	0
82	MG	A	1980	1/1	0.88	0.29	69,69,69,69	0
82	MG	1	4074	1/1	0.88	0.29	63,63,63,63	0
81	OHX	AR	3675	7/7	0.88	0.17	189,190,204,300	0
82	MG	AR	4029	1/1	0.88	0.21	66,66,66,66	0
81	OHX	AR	3587	7/7	0.88	0.13	146,148,152,238	0
82	MG	1	3827	1/1	0.88	0.11	79,79,79,79	0
82	MG	AR	4040	1/1	0.88	0.45	81,81,81,81	0
81	OHX	CE	404	7/7	0.88	0.09	195,201,214,284	0
82	MG	1	4152	1/1	0.88	0.18	76,76,76,76	0
81	OHX	AR	3593	7/7	0.88	0.15	135,141,151,207	0
82	MG	AR	4045	1/1	0.88	0.18	41,41,41,41	0
82	MG	AR	3827	1/1	0.88	0.37	51,51,51,51	0
81	OHX	1	3579	7/7	0.88	0.12	149,158,165,224	0
82	MG	1	3836	1/1	0.88	0.14	56,56,56,56	0
82	MG	3	213	1/1	0.88	0.11	65,65,65,65	0
82	MG	1	3839	1/1	0.88	0.20	90,90,90,90	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	s8	303	1/1	0.88	0.19	63,63,63,63	0
82	MG	A	2010	1/1	0.88	0.37	69,69,69,69	0
82	MG	A	2011	1/1	0.88	0.27	59,59,59,59	0
82	MG	AR	3844	1/1	0.88	0.28	43,43,43,43	0
82	MG	4	203	1/1	0.88	0.11	65,65,65,65	0
81	OHX	1	4105	6/7	0.88	0.17	111,116,120,186	0
82	MG	A	2019	1/1	0.88	0.09	70,70,70,70	0
82	MG	4	217	1/1	0.88	0.36	68,68,68,68	0
82	MG	A	2021	1/1	0.88	0.20	69,69,69,69	0
81	OHX	1	3576	7/7	0.89	0.09	191,192,203,265	0
82	MG	3	207	1/1	0.89	0.19	61,61,61,61	0
82	MG	AR	4151	1/1	0.89	0.24	40,40,40,40	0
82	MG	1	3854	1/1	0.89	0.10	70,70,70,70	0
81	OHX	AR	3537	7/7	0.89	0.12	143,148,158,214	0
82	MG	AR	3979	1/1	0.89	0.23	76,76,76,76	0
82	MG	1	3857	1/1	0.89	0.38	63,63,63,63	0
82	MG	3	216	1/1	0.89	0.08	81,81,81,81	0
82	MG	AR	3985	1/1	0.89	0.20	72,72,72,72	0
82	MG	1	3741	1/1	0.89	0.14	52,52,52,52	0
81	OHX	1	4132	7/7	0.89	0.09	230,235,238,284	0
82	MG	AR	4173	1/1	0.89	0.29	59,59,59,59	0
81	OHX	AR	3551	7/7	0.89	0.12	143,146,158,232	0
82	MG	A	2071	1/1	0.89	0.14	75,75,75,75	0
82	MG	AR	4181	1/1	0.89	0.16	61,61,61,61	0
82	MG	AR	3799	1/1	0.89	0.37	49,49,49,49	0
81	OHX	AR	3554	7/7	0.89	0.15	128,130,137,212	0
82	MG	AR	3803	1/1	0.89	0.31	45,45,45,45	0
82	MG	AR	3806	1/1	0.89	0.32	45,45,45,45	0
82	MG	AR	3998	1/1	0.89	0.29	63,63,63,63	0
82	MG	4	219	1/1	0.89	0.23	72,72,72,72	0
82	MG	AR	4209	1/1	0.89	0.17	94,94,94,94	0
81	OHX	AR	3632	7/7	0.89	0.10	180,188,200,270	0
81	OHX	1	4068	7/7	0.89	0.14	135,136,149,221	0
81	OHX	1	3507	7/7	0.89	0.13	118,126,130,190	0
81	OHX	1	3604	7/7	0.89	0.11	204,208,214,287	0
82	MG	1	3989	1/1	0.89	0.22	68,68,68,68	0
82	MG	4	229	1/1	0.89	0.17	68,68,68,68	0
81	OHX	AR	3591	7/7	0.89	0.13	131,136,146,219	0
82	MG	AS	3529	1/1	0.89	0.20	63,63,63,63	0
81	OHX	AR	3592	6/7	0.89	0.11	155,161,166,245	0
82	MG	1	3874	1/1	0.89	0.28	42,42,42,42	0
81	OHX	1	3591	7/7	0.89	0.11	172,176,185,258	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	sR	2030	1/1	0.89	0.19	53,53,53,53	0
82	MG	sR	2031	1/1	0.89	0.16	55,55,55,55	0
82	MG	AT	220	1/1	0.89	0.28	60,60,60,60	0
81	OHX	sR	2015	7/7	0.89	0.10	195,203,208,267	0
82	MG	sR	2037	1/1	0.89	0.20	85,85,85,85	0
81	OHX	AR	3595	7/7	0.89	0.10	167,174,180,242	0
81	OHX	CG	301	6/7	0.89	0.10	170,175,188,243	0
81	OHX	1	3571	7/7	0.89	0.10	147,153,167,237	0
81	OHX	1	4125	7/7	0.89	0.14	123,129,144,227	0
82	MG	1	3778	1/1	0.89	0.37	60,60,60,60	0
81	OHX	AR	3644	7/7	0.89	0.18	150,158,167,250	0
82	MG	AR	3866	1/1	0.89	0.40	51,51,51,51	0
82	MG	sR	2058	1/1	0.89	0.12	79,79,79,79	0
82	MG	AR	4038	1/1	0.89	0.18	50,50,50,50	0
82	MG	x	206	1/1	0.89	0.29	61,61,61,61	0
82	MG	sR	2061	1/1	0.89	0.28	50,50,50,50	0
82	MG	AR	3869	1/1	0.89	0.36	51,51,51,51	0
82	MG	1	3787	1/1	0.89	0.29	51,51,51,51	0
81	OHX	AR	3646	7/7	0.89	0.09	181,187,193,279	0
82	MG	sR	2071	1/1	0.89	0.29	65,65,65,65	0
81	OHX	1	4140	7/7	0.89	0.18	105,106,109,139	7
82	MG	1	3901	1/1	0.89	0.38	76,76,76,76	0
82	MG	AR	4047	1/1	0.89	0.30	81,81,81,81	0
82	MG	AB	201	1/1	0.89	0.28	66,66,66,66	0
82	MG	1	3790	1/1	0.89	0.31	51,51,51,51	0
82	MG	sR	2087	1/1	0.89	0.16	59,59,59,59	0
82	MG	CR	201	1/1	0.89	0.35	45,45,45,45	0
82	MG	CR	202	1/1	0.89	0.17	74,74,74,74	0
81	OHX	AR	3600	7/7	0.89	0.14	160,164,173,221	0
82	MG	AR	3893	1/1	0.89	0.26	61,61,61,61	0
82	MG	AR	4056	1/1	0.89	0.23	59,59,59,59	0
82	MG	1	3796	1/1	0.89	0.27	45,45,45,45	0
82	MG	sR	2096	1/1	0.89	0.24	60,60,60,60	0
81	OHX	AR	3602	7/7	0.89	0.11	166,170,181,235	0
82	MG	AR	4060	1/1	0.89	0.32	70,70,70,70	0
82	MG	AR	3902	1/1	0.89	0.15	60,60,60,60	0
81	OHX	AR	3603	7/7	0.89	0.12	118,134,140,226	0
81	OHX	e	102	7/7	0.89	0.10	202,204,212,283	0
82	MG	AR	3697	1/1	0.89	0.21	45,45,45,45	0
82	MG	1	3919	1/1	0.89	0.14	55,55,55,55	0
82	MG	1	3812	1/1	0.89	0.14	61,61,61,61	0
81	OHX	A	1950	7/7	0.89	0.11	172,180,185,241	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	3913	1/1	0.89	0.26	65,65,65,65	0
82	MG	1	3815	1/1	0.89	0.35	71,71,71,71	0
82	MG	A	1995	1/1	0.89	0.29	58,58,58,58	0
82	MG	AR	3915	1/1	0.89	0.26	71,71,71,71	0
82	MG	AR	3714	1/1	0.89	0.14	46,46,46,46	0
82	MG	sR	2126	1/1	0.89	0.29	75,75,75,75	0
82	MG	AR	3918	1/1	0.89	0.10	71,71,71,71	0
81	OHX	AR	3605	7/7	0.89	0.11	160,166,175,238	0
82	MG	1	4034	1/1	0.89	0.36	52,52,52,52	0
81	OHX	sR	1976	7/7	0.89	0.10	177,186,196,243	0
82	MG	1	3820	1/1	0.89	0.18	45,45,45,45	0
82	MG	AR	3720	1/1	0.89	0.17	50,50,50,50	0
81	OHX	sR	2170	7/7	0.89	0.12	156,166,171,233	0
82	MG	AR	3722	1/1	0.89	0.31	69,69,69,69	0
82	MG	AR	3932	1/1	0.89	0.35	60,60,60,60	0
81	OHX	sR	1977	7/7	0.89	0.14	151,156,164,219	0
82	MG	1	3823	1/1	0.89	0.11	67,67,67,67	0
81	OHX	AR	3608	7/7	0.89	0.17	145,149,163,239	0
82	MG	AR	4118	1/1	0.89	0.13	53,53,53,53	0
82	MG	AR	3944	1/1	0.89	0.26	60,60,60,60	0
82	MG	1	3825	1/1	0.89	0.20	66,66,66,66	0
81	OHX	A	1959	7/7	0.89	0.10	175,177,190,248	0
81	OHX	sR	1984	7/7	0.89	0.11	170,181,186,246	0
82	MG	AR	4123	1/1	0.89	0.23	73,73,73,73	0
82	MG	A	2025	1/1	0.89	0.20	78,78,78,78	0
82	MG	AR	3744	1/1	0.89	0.33	52,52,52,52	0
81	OHX	1	3551	7/7	0.89	0.13	121,131,149,214	0
81	OHX	1	3563	7/7	0.89	0.12	162,164,175,234	0
82	MG	1	3947	1/1	0.89	0.19	71,71,71,71	0
82	MG	1	3716	1/1	0.89	0.24	47,47,47,47	0
82	MG	A	2034	1/1	0.89	0.13	71,71,71,71	0
82	MG	sR	2164	1/1	0.89	0.14	61,61,61,61	0
81	OHX	AR	3616	7/7	0.89	0.10	184,189,198,274	0
82	MG	1	3951	1/1	0.89	0.19	61,61,61,61	0
82	MG	s1	302	1/1	0.89	0.15	86,86,86,86	0
81	OHX	s4	301	7/7	0.89	0.12	188,189,203,267	0
81	OHX	sR	1993	7/7	0.89	0.09	194,197,198,261	0
81	OHX	sR	1995	7/7	0.89	0.09	226,229,238,302	0
82	MG	1	4078	1/1	0.89	0.22	42,42,42,42	0
82	MG	1	3727	1/1	0.89	0.47	66,66,66,66	0
82	MG	1	4086	1/1	0.89	0.16	91,91,91,91	0
82	MG	c8	202	1/1	0.89	0.44	79,79,79,79	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	d3	201	1/1	0.89	0.32	70,70,70,70	0
81	OHX	AR	3617	7/7	0.89	0.12	169,173,184,256	0
81	OHX	A	1967	7/7	0.89	0.12	178,182,189,251	0
82	MG	A	2049	1/1	0.89	0.13	58,58,58,58	0
81	OHX	AR	3659	7/7	0.89	0.15	145,151,157,233	0
83	SPD	AR	4206	10/10	0.89	0.20	45,49,50,52	0
81	OHX	A	1969	7/7	0.89	0.12	153,155,163,208	0
82	MG	AR	4192	1/1	0.90	0.18	45,45,45,45	0
82	MG	1	3686	1/1	0.90	0.33	42,42,42,42	0
82	MG	A	2070	1/1	0.90	0.15	85,85,85,85	0
81	OHX	CL	302[A]	7/7	0.90	0.29	122,129,137,147	7
81	OHX	CL	302[B]	7/7	0.90	0.29	127,130,140,179	7
81	OHX	AR	4199	7/7	0.90	0.09	174,176,182,262	0
82	MG	AS	3515	1/1	0.90	0.34	48,48,48,48	0
82	MG	AR	3880	1/1	0.90	0.25	53,53,53,53	0
82	MG	AS	3518	1/1	0.90	0.19	80,80,80,80	0
82	MG	1	3950	1/1	0.90	0.36	68,68,68,68	0
82	MG	1	3777	1/1	0.90	0.17	42,42,42,42	0
82	MG	AS	3522	1/1	0.90	0.10	82,82,82,82	0
81	OHX	c8	201	7/7	0.90	0.10	168,179,184,232	0
82	MG	1	4052	1/1	0.90	0.33	70,70,70,70	0
82	MG	AR	4039	1/1	0.90	0.17	76,76,76,76	0
82	MG	1	4053	1/1	0.90	0.28	50,50,50,50	0
82	MG	AR	3896	1/1	0.90	0.26	56,56,56,56	0
82	MG	1	3696	1/1	0.90	0.21	63,63,63,63	0
82	MG	AR	4043	1/1	0.90	0.18	109,109,109,109	0
81	OHX	A	1938	7/7	0.90	0.14	139,147,151,222	0
82	MG	1	4056	1/1	0.90	0.26	44,44,44,44	0
82	MG	1	3618	1/1	0.90	0.28	50,50,50,50	0
81	OHX	sR	2017	7/7	0.90	0.12	163,164,173,262	0
82	MG	1	3960	1/1	0.90	0.21	60,60,60,60	0
82	MG	AT	228	1/1	0.90	0.33	61,61,61,61	0
81	OHX	AR	3676	7/7	0.90	0.09	172,178,193,266	0
82	MG	AR	3730	1/1	0.90	0.21	65,65,65,65	0
82	MG	AR	3912	1/1	0.90	0.19	72,72,72,72	0
82	MG	sR	2039	1/1	0.90	0.18	85,85,85,85	0
82	MG	1	4062	1/1	0.90	0.24	72,72,72,72	0
82	MG	CE	406	1/1	0.90	0.24	62,62,62,62	0
82	MG	1	3622	1/1	0.90	0.19	49,49,49,49	0
82	MG	sR	2046	1/1	0.90	0.29	51,51,51,51	0
82	MG	sR	2048	1/1	0.90	0.21	57,57,57,57	0
82	MG	1	4066	1/1	0.90	0.37	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	A	1940	7/7	0.90	0.12	163,166,171,231	0
82	MG	sR	2053	1/1	0.90	0.16	59,59,59,59	0
81	OHX	A	1942	7/7	0.90	0.13	145,148,152,220	0
82	MG	1	3629	1/1	0.90	0.30	64,64,64,64	0
82	MG	1	3878	1/1	0.90	0.16	58,58,58,58	0
82	MG	AR	4066	1/1	0.90	0.12	73,73,73,73	0
82	MG	1	4083	1/1	0.90	0.26	68,68,68,68	0
82	MG	AR	4068	1/1	0.90	0.28	69,69,69,69	0
82	MG	1	3803	1/1	0.90	0.30	48,48,48,48	0
82	MG	sR	2065	1/1	0.90	0.17	57,57,57,57	0
82	MG	AR	4070	1/1	0.90	0.14	61,61,61,61	0
82	MG	1	3880	1/1	0.90	0.26	72,72,72,72	0
82	MG	CR	205	1/1	0.90	0.14	68,68,68,68	0
82	MG	sR	2073	1/1	0.90	0.26	58,58,58,58	0
82	MG	CX	203	1/1	0.90	0.32	43,43,43,43	0
82	MG	sR	2078	1/1	0.90	0.18	53,53,53,53	0
82	MG	sR	2079	1/1	0.90	0.31	51,51,51,51	0
82	MG	AR	3927	1/1	0.90	0.24	49,49,49,49	0
81	OHX	sR	1987	7/7	0.90	0.10	162,169,181,247	0
82	MG	DC	202	1/1	0.90	0.21	64,64,64,64	0
82	MG	1	4148	1/1	0.90	0.07	111,111,111,111	0
82	MG	AR	3757	1/1	0.90	0.25	66,66,66,66	0
82	MG	AR	3933	1/1	0.90	0.19	41,41,41,41	0
82	MG	1	3882	1/1	0.90	0.25	63,63,63,63	0
82	MG	A	1978	1/1	0.90	0.16	61,61,61,61	0
82	MG	sR	2091	1/1	0.90	0.19	74,74,74,74	0
82	MG	1	3887	1/1	0.90	0.30	61,61,61,61	0
82	MG	AR	4086	1/1	0.90	0.11	60,60,60,60	0
82	MG	AR	4087	1/1	0.90	0.18	44,44,44,44	0
82	MG	AR	3937	1/1	0.90	0.23	59,59,59,59	0
82	MG	1	3982	1/1	0.90	0.21	69,69,69,69	0
82	MG	sR	2100	1/1	0.90	0.21	50,50,50,50	0
81	OHX	A	2129	7/7	0.90	0.10	172,180,192,257	0
82	MG	1	3632	1/1	0.90	0.15	47,47,47,47	0
82	MG	AR	3766	1/1	0.90	0.37	62,62,62,62	0
81	OHX	AR	3527	7/7	0.90	0.13	98,105,118,174	0
82	MG	AR	4110	1/1	0.90	0.23	55,55,55,55	0
82	MG	1	3723	1/1	0.90	0.32	44,44,44,44	0
82	MG	1	3724	1/1	0.90	0.33	42,42,42,42	0
81	OHX	AR	3594	7/7	0.90	0.11	141,142,148,215	0
82	MG	sR	2115	1/1	0.90	0.10	71,71,71,71	0
82	MG	sR	2117	1/1	0.90	0.18	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3611	7/7	0.90	0.10	154,171,175,231	0
82	MG	AR	4117	1/1	0.90	0.22	47,47,47,47	0
82	MG	1	3639	1/1	0.90	0.35	62,62,62,62	0
81	OHX	AR	3612	7/7	0.90	0.14	134,145,157,232	0
82	MG	AR	3777	1/1	0.90	0.35	54,54,54,54	0
82	MG	sR	2125	1/1	0.90	0.08	64,64,64,64	0
82	MG	1	3998	1/1	0.90	0.17	64,64,64,64	0
81	OHX	1	3542	7/7	0.90	0.12	144,153,164,222	0
82	MG	1	3904	1/1	0.90	0.29	67,67,67,67	0
81	OHX	A	1954	7/7	0.90	0.11	144,152,166,227	0
81	OHX	AR	3666	7/7	0.90	0.10	175,178,188,258	0
82	MG	AR	3968	1/1	0.90	0.24	66,66,66,66	0
82	MG	1	3913	1/1	0.90	0.32	76,76,76,76	0
82	MG	AR	3795	1/1	0.90	0.37	45,45,45,45	0
82	MG	sR	2135	1/1	0.90	0.33	67,67,67,67	0
82	MG	1	3829	1/1	0.90	0.12	64,64,64,64	0
81	OHX	AR	3581	7/7	0.90	0.12	144,152,162,228	0
81	OHX	AR	3651	7/7	0.90	0.12	151,153,166,247	0
81	OHX	1	3572	7/7	0.90	0.09	160,176,182,239	0
82	MG	sR	2143	1/1	0.90	0.33	76,76,76,76	0
82	MG	1	3656	1/1	0.90	0.11	94,94,94,94	0
82	MG	1	3838	1/1	0.90	0.24	75,75,75,75	0
82	MG	A	2028	1/1	0.90	0.13	97,97,97,97	0
82	MG	1	3657	1/1	0.90	0.34	71,71,71,71	0
81	OHX	AR	3588	7/7	0.90	0.13	165,166,172,266	0
82	MG	r	301	1/1	0.90	0.24	49,49,49,49	0
81	OHX	AR	3639	7/7	0.90	0.13	142,144,151,243	0
82	MG	sR	2151	1/1	0.90	0.26	68,68,68,68	0
82	MG	AR	3824	1/1	0.90	0.35	54,54,54,54	0
82	MG	1	3927	1/1	0.90	0.15	76,76,76,76	0
82	MG	AR	4146	1/1	0.90	0.28	42,42,42,42	0
82	MG	1	3670	1/1	0.90	0.22	42,42,42,42	0
82	MG	w	201	1/1	0.90	0.27	89,89,89,89	0
82	MG	x	201	1/1	0.90	0.22	42,42,42,42	0
82	MG	A	2043	1/1	0.90	0.14	76,76,76,76	0
82	MG	1	3751	1/1	0.90	0.31	51,51,51,51	0
82	MG	sR	2165	1/1	0.90	0.19	66,66,66,66	0
82	MG	AR	3995	1/1	0.90	0.19	70,70,70,70	0
82	MG	1	3671	1/1	0.90	0.27	58,58,58,58	0
82	MG	AR	4158	1/1	0.90	0.33	75,75,75,75	0
81	OHX	AR	3589	6/7	0.90	0.16	133,145,147,221	0
81	OHX	AR	3619	7/7	0.90	0.09	173,184,189,237	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	3847	1/1	0.90	0.33	52,52,52,52	0
82	MG	1	4027	1/1	0.90	0.18	42,42,42,42	0
82	MG	c1	201	1/1	0.90	0.27	68,68,68,68	0
82	MG	AR	3855	1/1	0.90	0.36	54,54,54,54	0
81	OHX	1	3506	7/7	0.90	0.14	111,121,143,197	0
82	MG	AR	3862	1/1	0.90	0.31	40,40,40,40	0
82	MG	AR	4180	1/1	0.90	0.26	66,66,66,66	0
81	OHX	sR	1961	7/7	0.90	0.15	127,135,144,201	0
81	OHX	1	3570	7/7	0.90	0.08	201,206,212,264	0
82	MG	1	4036	1/1	0.90	0.33	76,76,76,76	0
82	MG	1	3943	1/1	0.90	0.14	61,61,61,61	0
82	MG	1	3945	1/1	0.90	0.14	49,49,49,49	0
82	MG	AG	203	1/1	0.90	0.28	62,62,62,62	0
85	ZN	e1	501	1/1	0.90	0.14	144,144,144,144	0
82	MG	AR	4031	1/1	0.91	0.17	56,56,56,56	0
82	MG	1	3763	1/1	0.91	0.29	48,48,48,48	0
82	MG	A	2084	1/1	0.91	0.29	57,57,57,57	0
81	OHX	AR	3586	7/7	0.91	0.11	143,146,155,217	0
82	MG	AR	3901	1/1	0.91	0.22	56,56,56,56	0
82	MG	1	3851	1/1	0.91	0.18	70,70,70,70	0
81	OHX	1	3550	7/7	0.91	0.09	158,163,171,222	0
82	MG	A	2090	1/1	0.91	0.10	74,74,74,74	0
82	MG	1	3767	1/1	0.91	0.34	51,51,51,51	0
81	OHX	AR	3521	7/7	0.91	0.13	94,105,127,178	0
82	MG	AR	3906	1/1	0.91	0.20	43,43,43,43	0
82	MG	AR	3907	1/1	0.91	0.20	53,53,53,53	0
81	OHX	1	3547	7/7	0.91	0.10	152,157,165,219	0
82	MG	4	218	1/1	0.91	0.31	69,69,69,69	0
81	OHX	1	4127	7/7	0.91	0.10	205,209,216,277	0
82	MG	AR	3759	1/1	0.91	0.10	80,80,80,80	0
81	OHX	AR	3615	7/7	0.91	0.10	165,169,176,235	0
82	MG	X	201	1/1	0.91	0.12	58,58,58,58	0
82	MG	1	4019	1/1	0.91	0.08	57,57,57,57	0
82	MG	1	3704	1/1	0.91	0.13	62,62,62,62	0
82	MG	sR	2029	1/1	0.91	0.29	60,60,60,60	0
81	OHX	AR	3535	7/7	0.91	0.12	110,122,127,191	0
82	MG	1	3785	1/1	0.91	0.21	42,42,42,42	0
81	OHX	A	2128	7/7	0.91	0.14	157,161,162,227	0
81	OHX	3	203	7/7	0.91	0.11	144,148,156,216	0
82	MG	AR	4062	1/1	0.91	0.26	53,53,53,53	0
82	MG	1	3710	1/1	0.91	0.35	44,44,44,44	0
82	MG	sR	2040	1/1	0.91	0.33	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	sR	1994	7/7	0.91	0.10	162,167,174,232	0
82	MG	CE	405	1/1	0.91	0.36	42,42,42,42	0
82	MG	AR	4065	1/1	0.91	0.18	70,70,70,70	0
81	OHX	3	205	7/7	0.91	0.10	152,155,158,210	0
82	MG	AR	3926	1/1	0.91	0.31	69,69,69,69	0
82	MG	1	3713	1/1	0.91	0.24	52,52,52,52	0
81	OHX	1	4116	7/7	0.91	0.10	141,152,159,216	0
82	MG	AR	3929	1/1	0.91	0.26	49,49,49,49	0
82	MG	sR	2054	1/1	0.91	0.13	62,62,62,62	0
81	OHX	AR	3622	7/7	0.91	0.08	193,195,204,265	0
82	MG	1	3647	1/1	0.91	0.22	65,65,65,65	0
82	MG	sR	2057	1/1	0.91	0.32	87,87,87,87	0
82	MG	r	303	1/1	0.91	0.16	55,55,55,55	0
82	MG	CP	304	1/1	0.91	0.16	56,56,56,56	0
82	MG	CP	305	1/1	0.91	0.17	66,66,66,66	0
82	MG	1	3954	1/1	0.91	0.24	68,68,68,68	0
82	MG	sR	2062	1/1	0.91	0.22	62,62,62,62	0
82	MG	t	201	1/1	0.91	0.09	63,63,63,63	0
82	MG	AR	3784	1/1	0.91	0.16	50,50,50,50	0
81	OHX	A	1951	7/7	0.91	0.10	163,167,177,227	0
82	MG	CR	204	1/1	0.91	0.34	58,58,58,58	0
82	MG	1	3811	1/1	0.91	0.15	61,61,61,61	0
82	MG	1	3722	1/1	0.91	0.26	48,48,48,48	0
82	MG	AR	3790	1/1	0.91	0.23	49,49,49,49	0
82	MG	sR	2075	1/1	0.91	0.22	69,69,69,69	0
82	MG	sR	2076	1/1	0.91	0.16	68,68,68,68	0
82	MG	sR	2077	1/1	0.91	0.41	70,70,70,70	0
82	MG	AR	4088	1/1	0.91	0.14	60,60,60,60	0
82	MG	DA	202	1/1	0.91	0.36	65,65,65,65	0
82	MG	sR	2080	1/1	0.91	0.29	69,69,69,69	0
82	MG	AR	3948	1/1	0.91	0.15	68,68,68,68	0
82	MG	AR	4092	1/1	0.91	0.11	65,65,65,65	0
81	OHX	1	3512	7/7	0.91	0.12	132,137,143,204	0
82	MG	DO	202	1/1	0.91	0.15	73,73,73,73	0
81	OHX	AR	3597	7/7	0.91	0.12	134,135,145,208	0
82	MG	AR	3798	1/1	0.91	0.23	48,48,48,48	0
82	MG	AR	4101	1/1	0.91	0.10	69,69,69,69	0
82	MG	1	3963	1/1	0.91	0.13	71,71,71,71	0
82	MG	AR	3800	1/1	0.91	0.26	42,42,42,42	0
82	MG	AR	3957	1/1	0.91	0.37	61,61,61,61	0
82	MG	1	3964	1/1	0.91	0.14	60,60,60,60	0
81	OHX	AR	3628	7/7	0.91	0.11	147,151,155,219	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3558	7/7	0.91	0.12	151,155,158,217	0
82	MG	sR	2097	1/1	0.91	0.14	74,74,74,74	0
82	MG	1	3890	1/1	0.91	0.15	50,50,50,50	0
81	OHX	A	1960	7/7	0.91	0.10	190,196,201,255	0
82	MG	AB	202	1/1	0.91	0.16	69,69,69,69	0
82	MG	1	3893	1/1	0.91	0.39	65,65,65,65	0
82	MG	1	3662	1/1	0.91	0.25	54,54,54,54	0
82	MG	AR	3818	1/1	0.91	0.24	41,41,41,41	0
82	MG	AR	3820	1/1	0.91	0.26	51,51,51,51	0
81	OHX	AR	3574	7/7	0.91	0.12	135,137,141,206	0
81	OHX	1	3577	7/7	0.91	0.11	159,165,171,246	0
82	MG	1	3667	1/1	0.91	0.24	60,60,60,60	0
82	MG	AR	3829	1/1	0.91	0.41	50,50,50,50	0
82	MG	sR	2116	1/1	0.91	0.12	78,78,78,78	0
82	MG	1	3669	1/1	0.91	0.45	76,76,76,76	0
82	MG	1	3826	1/1	0.91	0.21	65,65,65,65	0
81	OHX	A	1963	7/7	0.91	0.09	176,182,189,242	0
81	OHX	AR	3601	7/7	0.91	0.13	123,133,142,218	0
82	MG	A	2013	1/1	0.91	0.23	73,73,73,73	0
82	MG	AR	3841	1/1	0.91	0.20	42,42,42,42	0
82	MG	AR	3842	1/1	0.91	0.31	53,53,53,53	0
82	MG	AR	3843	1/1	0.91	0.42	52,52,52,52	0
82	MG	AR	3984	1/1	0.91	0.21	67,67,67,67	0
82	MG	AR	4138	1/1	0.91	0.19	55,55,55,55	0
82	MG	AR	3701	1/1	0.91	0.21	53,53,53,53	0
82	MG	AR	3986	1/1	0.91	0.19	56,56,56,56	0
81	OHX	Q	201	7/7	0.91	0.09	219,224,231,285	0
82	MG	sR	2132	1/1	0.91	0.18	68,68,68,68	0
81	OHX	AP	502	7/7	0.91	0.15	132,140,152,236	0
82	MG	AR	3848	1/1	0.91	0.22	44,44,44,44	0
82	MG	AR	3709	1/1	0.91	0.27	62,62,62,62	0
82	MG	1	3906	1/1	0.91	0.14	55,55,55,55	0
82	MG	AR	3711	1/1	0.91	0.32	60,60,60,60	0
82	MG	sR	2140	1/1	0.91	0.31	66,66,66,66	0
82	MG	1	4079	1/1	0.91	0.20	64,64,64,64	0
82	MG	1	3679	1/1	0.91	0.23	68,68,68,68	0
81	OHX	AR	3472	7/7	0.91	0.18	113,115,123,189	0
82	MG	1	4084	1/1	0.91	0.10	79,79,79,79	0
82	MG	AR	4154	1/1	0.91	0.29	70,70,70,70	0
82	MG	1	3994	1/1	0.91	0.18	42,42,42,42	0
81	OHX	AR	3585	7/7	0.91	0.10	150,160,171,238	0
82	MG	AR	4159	1/1	0.91	0.12	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	A	2041	1/1	0.91	0.15	96,96,96,96	0
82	MG	AR	4160	1/1	0.91	0.31	45,45,45,45	0
82	MG	AR	3868	1/1	0.91	0.28	48,48,48,48	0
82	MG	AR	4007	1/1	0.91	0.12	53,53,53,53	0
82	MG	AR	4163	1/1	0.91	0.14	51,51,51,51	0
81	OHX	sR	2014	7/7	0.91	0.10	160,165,174,224	0
82	MG	AR	4009	1/1	0.91	0.08	58,58,58,58	0
82	MG	AR	4167	1/1	0.91	0.21	51,51,51,51	0
82	MG	A	2050	1/1	0.91	0.11	81,81,81,81	0
82	MG	1	3684	1/1	0.91	0.32	57,57,57,57	0
82	MG	AR	3874	1/1	0.91	0.21	62,62,62,62	0
82	MG	AR	4014	1/1	0.91	0.27	74,74,74,74	0
82	MG	A	2054	1/1	0.91	0.22	65,65,65,65	0
82	MG	AR	3726	1/1	0.91	0.21	58,58,58,58	0
82	MG	1	4150	1/1	0.91	0.25	66,66,66,66	0
82	MG	AR	3728	1/1	0.91	0.12	46,46,46,46	0
82	MG	AR	4185	1/1	0.91	0.28	66,66,66,66	0
82	MG	AR	4186	1/1	0.91	0.34	69,69,69,69	0
82	MG	A	2060	1/1	0.91	0.21	74,74,74,74	0
82	MG	AR	3878	1/1	0.91	0.28	43,43,43,43	0
82	MG	c4	2201	1/1	0.91	0.08	74,74,74,74	0
81	OHX	AR	3685	7/7	0.91	0.11	135,141,158,217	0
81	OHX	AR	3607	7/7	0.91	0.13	140,148,157,231	0
82	MG	1	3689	1/1	0.91	0.27	71,71,71,71	0
82	MG	AR	3736	1/1	0.91	0.15	60,60,60,60	0
82	MG	d3	202	1/1	0.91	0.37	67,67,67,67	0
82	MG	d4	201	1/1	0.91	0.15	64,64,64,64	0
82	MG	AR	3890	1/1	0.91	0.27	86,86,86,86	0
82	MG	AR	4194	1/1	0.91	0.12	72,72,72,72	0
82	MG	1	4005	1/1	0.91	0.19	102,102,102,102	0
81	OHX	A	1973	7/7	0.91	0.11	149,151,157,209	0
82	MG	AS	3512	1/1	0.91	0.10	44,44,44,44	0
85	ZN	DI	202	1/1	0.91	0.09	110,110,110,110	0
82	MG	AS	3513	1/1	0.91	0.17	62,62,62,62	0
82	MG	A	2078	1/1	0.91	0.14	64,64,64,64	0
82	MG	AR	3791	1/1	0.92	0.34	41,41,41,41	0
82	MG	AR	3792	1/1	0.92	0.39	42,42,42,42	0
82	MG	AR	4172	1/1	0.92	0.11	56,56,56,56	0
82	MG	AR	3794	1/1	0.92	0.09	55,55,55,55	0
82	MG	1	3848	1/1	0.92	0.26	62,62,62,62	0
82	MG	AR	3796	1/1	0.92	0.24	57,57,57,57	0
82	MG	1	3738	1/1	0.92	0.12	64,64,64,64	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4183	1/1	0.92	0.09	51,51,51,51	0
81	OHX	AR	3584	7/7	0.92	0.09	134,138,153,217	0
82	MG	A	2079	1/1	0.92	0.41	52,52,52,52	0
81	OHX	1	3573	7/7	0.92	0.10	150,156,169,225	0
81	OHX	AR	3629	7/7	0.92	0.10	151,153,163,227	0
82	MG	A	2082	1/1	0.92	0.37	56,56,56,56	0
82	MG	1	3968	1/1	0.92	0.20	76,76,76,76	0
81	OHX	CS	201	7/7	0.92	0.12	143,146,151,232	0
82	MG	1	3658	1/1	0.92	0.21	57,57,57,57	0
82	MG	AR	4190	1/1	0.92	0.18	76,76,76,76	0
82	MG	1	3660	1/1	0.92	0.37	64,64,64,64	0
82	MG	1	3749	1/1	0.92	0.23	48,48,48,48	0
82	MG	AR	3812	1/1	0.92	0.25	58,58,58,58	0
82	MG	AR	3813	1/1	0.92	0.24	48,48,48,48	0
81	OHX	1	3537	7/7	0.92	0.10	143,146,154,212	0
82	MG	1	3863	1/1	0.92	0.23	74,74,74,74	0
82	MG	AR	4001	1/1	0.92	0.23	58,58,58,58	0
81	OHX	DQ	502	7/7	0.92	0.15	142,151,165,248	0
81	OHX	A	1926	7/7	0.92	0.11	176,177,181,232	0
82	MG	1	3753	1/1	0.92	0.22	61,61,61,61	0
82	MG	AS	3516	1/1	0.92	0.17	68,68,68,68	0
82	MG	A	2151	1/1	0.92	0.08	68,68,68,68	0
82	MG	F	301	1/1	0.92	0.17	81,81,81,81	0
82	MG	AR	3822	1/1	0.92	0.29	69,69,69,69	0
81	OHX	A	1933	7/7	0.92	0.10	147,151,157,219	0
81	OHX	A	1935	7/7	0.92	0.12	152,158,167,223	0
82	MG	1	3756	1/1	0.92	0.23	63,63,63,63	0
82	MG	1	3758	1/1	0.92	0.35	44,44,44,44	0
82	MG	AS	3523	1/1	0.92	0.10	80,80,80,80	0
82	MG	1	3759	1/1	0.92	0.32	44,44,44,44	0
82	MG	sR	2034	1/1	0.92	0.24	56,56,56,56	0
81	OHX	1	3509	7/7	0.92	0.12	138,139,146,210	0
82	MG	AS	3528	1/1	0.92	0.18	56,56,56,56	0
82	MG	sR	2038	1/1	0.92	0.27	59,59,59,59	0
82	MG	AR	3834	1/1	0.92	0.28	54,54,54,54	0
82	MG	AT	204	1/1	0.92	0.16	82,82,82,82	0
82	MG	AR	4018	1/1	0.92	0.27	68,68,68,68	0
81	OHX	1	3558	7/7	0.92	0.10	153,158,166,235	0
82	MG	sR	2044	1/1	0.92	0.22	63,63,63,63	0
82	MG	AR	3837	1/1	0.92	0.24	41,41,41,41	0
82	MG	o	301	1/1	0.92	0.19	65,65,65,65	0
81	OHX	1	3541	7/7	0.92	0.10	137,144,156,203	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	1	3675	1/1	0.92	0.28	46,46,46,46	0
82	MG	1	3996	1/1	0.92	0.17	70,70,70,70	0
82	MG	sR	2052	1/1	0.92	0.21	65,65,65,65	0
82	MG	AR	4028	1/1	0.92	0.10	59,59,59,59	0
81	OHX	AR	3590	7/7	0.92	0.12	147,148,154,218	0
81	OHX	1	3511	7/7	0.92	0.12	142,148,154,222	0
82	MG	1	3999	1/1	0.92	0.12	82,82,82,82	0
82	MG	AT	230	1/1	0.92	0.25	48,48,48,48	0
82	MG	AR	4032	1/1	0.92	0.11	54,54,54,54	0
82	MG	v	304	1/1	0.92	0.33	63,63,63,63	0
82	MG	1	4000	1/1	0.92	0.12	106,106,106,106	0
81	OHX	1	3487	7/7	0.92	0.13	114,119,125,182	0
81	OHX	1	3514	7/7	0.92	0.12	143,150,160,217	0
82	MG	sR	2063	1/1	0.92	0.12	59,59,59,59	0
82	MG	x	204	1/1	0.92	0.38	57,57,57,57	0
82	MG	x	205	1/1	0.92	0.17	50,50,50,50	0
82	MG	sR	2067	1/1	0.92	0.31	48,48,48,48	0
82	MG	1	3883	1/1	0.92	0.19	60,60,60,60	0
82	MG	sR	2069	1/1	0.92	0.31	62,62,62,62	0
82	MG	CG	304	1/1	0.92	0.08	63,63,63,63	0
81	OHX	sR	1967	7/7	0.92	0.12	149,155,160,214	0
82	MG	sR	2072	1/1	0.92	0.23	49,49,49,49	0
82	MG	1	3772	1/1	0.92	0.18	59,59,59,59	0
82	MG	1	4008	1/1	0.92	0.09	67,67,67,67	0
82	MG	1	3889	1/1	0.92	0.19	70,70,70,70	0
81	OHX	sR	1969	7/7	0.92	0.11	129,131,137,202	0
81	OHX	1	3616	7/7	0.92	0.15	95,107,115,153	0
82	MG	1	3892	1/1	0.92	0.29	72,72,72,72	0
82	MG	1	3687	1/1	0.92	0.14	45,45,45,45	0
82	MG	1	3783	1/1	0.92	0.28	43,43,43,43	0
81	OHX	1	3546	7/7	0.92	0.11	147,149,163,226	0
81	OHX	1	4139	7/7	0.92	0.27	106,108,110,130	7
81	OHX	1	3516	7/7	0.92	0.10	162,167,172,227	0
82	MG	AR	3691	1/1	0.92	0.19	45,45,45,45	0
82	MG	1	3898	1/1	0.92	0.27	46,46,46,46	0
82	MG	AR	3888	1/1	0.92	0.30	61,61,61,61	0
82	MG	AR	3693	1/1	0.92	0.11	54,54,54,54	0
81	OHX	1	4141	7/7	0.92	0.09	169,173,183,222	7
82	MG	DC	201	1/1	0.92	0.31	74,74,74,74	0
82	MG	AR	3891	1/1	0.92	0.23	52,52,52,52	0
82	MG	AR	3698	1/1	0.92	0.29	62,62,62,62	0
82	MG	sR	2094	1/1	0.92	0.11	69,69,69,69	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	DH	201	1/1	0.92	0.13	59,59,59,59	0
81	OHX	1	3469	7/7	0.92	0.14	88,105,112,161	0
82	MG	1	3793	1/1	0.92	0.34	67,67,67,67	0
82	MG	AR	3898	1/1	0.92	0.14	68,68,68,68	0
82	MG	DQ	504	1/1	0.92	0.24	56,56,56,56	0
82	MG	sR	2101	1/1	0.92	0.15	87,87,87,87	0
82	MG	AR	4071	1/1	0.92	0.14	67,67,67,67	0
81	OHX	1	4107	7/7	0.92	0.11	110,115,125,171	0
81	OHX	3	204	7/7	0.92	0.11	142,146,150,216	0
82	MG	1	3698	1/1	0.92	0.24	54,54,54,54	0
82	MG	sR	2106	1/1	0.92	0.08	63,63,63,63	0
82	MG	1	3699	1/1	0.92	0.35	60,60,60,60	0
82	MG	1	3907	1/1	0.92	0.11	84,84,84,84	0
82	MG	1	4030	1/1	0.92	0.32	58,58,58,58	0
81	OHX	sR	1988	7/7	0.92	0.10	147,165,166,226	0
82	MG	1	3911	1/1	0.92	0.11	59,59,59,59	0
81	OHX	1	3524	7/7	0.92	0.12	151,156,172,246	0
82	MG	1	3807	1/1	0.92	0.25	41,41,41,41	0
82	MG	1	3916	1/1	0.92	0.17	61,61,61,61	0
82	MG	A	1997	1/1	0.92	0.23	59,59,59,59	0
82	MG	sR	2120	1/1	0.92	0.18	65,65,65,65	0
82	MG	AR	3911	1/1	0.92	0.15	64,64,64,64	0
81	OHX	AR	3556	7/7	0.92	0.14	116,120,128,188	0
81	OHX	AR	3604	7/7	0.92	0.11	144,149,156,235	0
82	MG	1	3813	1/1	0.92	0.25	64,64,64,64	0
81	OHX	A	1965	7/7	0.92	0.09	173,176,192,241	0
82	MG	A	2005	1/1	0.92	0.29	88,88,88,88	0
81	OHX	1	3503	7/7	0.92	0.11	115,129,139,214	0
82	MG	AR	3729	1/1	0.92	0.23	59,59,59,59	0
82	MG	1	3816	1/1	0.92	0.17	55,55,55,55	0
82	MG	1	4047	1/1	0.92	0.23	51,51,51,51	0
81	OHX	AR	3561	7/7	0.92	0.14	120,126,133,199	0
81	OHX	AR	3562	7/7	0.92	0.13	136,140,150,212	0
81	OHX	sR	1998	7/7	0.92	0.11	154,160,167,230	0
82	MG	A	2015	1/1	0.92	0.23	66,66,66,66	0
81	OHX	AR	3609	7/7	0.92	0.13	143,149,156,236	0
82	MG	AR	4116	1/1	0.92	0.15	85,85,85,85	0
82	MG	1	3929	1/1	0.92	0.14	55,55,55,55	0
82	MG	1	3714	1/1	0.92	0.27	42,42,42,42	0
82	MG	AR	3745	1/1	0.92	0.23	54,54,54,54	0
81	OHX	AR	3610	7/7	0.92	0.14	125,131,141,202	0
81	OHX	A	1972	7/7	0.92	0.09	188,192,196,254	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3563	7/7	0.92	0.12	125,136,151,197	0
82	MG	AR	3934	1/1	0.92	0.12	50,50,50,50	0
82	MG	1	3719	1/1	0.92	0.36	42,42,42,42	0
82	MG	AR	3752	1/1	0.92	0.15	57,57,57,57	0
82	MG	AR	3754	1/1	0.92	0.19	42,42,42,42	0
82	MG	AR	3941	1/1	0.92	0.08	47,47,47,47	0
81	OHX	AR	3568	7/7	0.92	0.11	109,112,122,183	0
82	MG	A	2032	1/1	0.92	0.23	65,65,65,65	0
82	MG	1	3721	1/1	0.92	0.22	46,46,46,46	0
82	MG	1	4063	1/1	0.92	0.10	43,43,43,43	0
82	MG	1	3939	1/1	0.92	0.20	69,69,69,69	0
82	MG	1	3942	1/1	0.92	0.12	54,54,54,54	0
82	MG	sR	2157	1/1	0.92	0.10	80,80,80,80	0
82	MG	AR	3949	1/1	0.92	0.09	68,68,68,68	0
82	MG	AR	3951	1/1	0.92	0.40	63,63,63,63	0
82	MG	1	4067	1/1	0.92	0.12	54,54,54,54	0
82	MG	1	3830	1/1	0.92	0.34	69,69,69,69	0
82	MG	1	3944	1/1	0.92	0.15	43,43,43,43	0
82	MG	1	4077	1/1	0.92	0.17	59,59,59,59	0
82	MG	A	2044	1/1	0.92	0.21	80,80,80,80	0
81	OHX	AR	3570	7/7	0.92	0.11	135,139,149,221	0
81	OHX	AR	3571	7/7	0.92	0.12	126,131,136,205	0
82	MG	1	4081	1/1	0.92	0.11	68,68,68,68	0
82	MG	1	3833	1/1	0.92	0.30	65,65,65,65	0
81	OHX	AR	3572	7/7	0.92	0.11	130,135,146,206	0
81	OHX	AR	3573	7/7	0.92	0.10	146,154,166,230	0
82	MG	c4	2202	1/1	0.92	0.18	57,57,57,57	0
82	MG	1	3837	1/1	0.92	0.11	47,47,47,47	0
81	OHX	1	3526	7/7	0.92	0.10	155,161,165,229	0
81	OHX	1	3606	7/7	0.92	0.13	143,146,152,218	0
81	OHX	1	3553	7/7	0.92	0.14	142,147,153,223	0
82	MG	AR	3779	1/1	0.92	0.13	42,42,42,42	0
82	MG	d3	204	1/1	0.92	0.27	49,49,49,49	0
82	MG	AR	3780	1/1	0.92	0.18	47,47,47,47	0
81	OHX	AR	3621	7/7	0.92	0.11	142,147,158,228	0
82	MG	1	3649	1/1	0.92	0.30	61,61,61,61	0
81	OHX	AR	3579	7/7	0.92	0.10	116,122,129,189	0
82	MG	1	3735	1/1	0.92	0.22	46,46,46,46	0
82	MG	d9	102	1/1	0.92	0.11	78,78,78,78	0
82	MG	A	2061	1/1	0.92	0.18	86,86,86,86	0
84	XBI	AR	4222	26/26	0.92	0.14	57,61,64,65	0
81	OHX	1	3534	7/7	0.92	0.11	116,124,135,201	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	1	3961	1/1	0.92	0.14	78,78,78,78	0
82	MG	3	211	1/1	0.92	0.31	45,45,45,45	0
82	MG	1	3991	1/1	0.93	0.08	68,68,68,68	0
81	OHX	sR	1973	7/7	0.93	0.11	138,142,146,199	0
82	MG	AR	3749	1/1	0.93	0.18	69,69,69,69	0
82	MG	AT	217	1/1	0.93	0.16	49,49,49,49	0
81	OHX	sR	1975	7/7	0.93	0.13	126,136,142,209	0
82	MG	3	210	1/1	0.93	0.08	45,45,45,45	0
81	OHX	1	3532	7/7	0.93	0.10	148,152,158,217	0
81	OHX	3	218	7/7	0.93	0.11	129,140,144,204	0
82	MG	O	202	1/1	0.93	0.21	71,71,71,71	0
82	MG	P	201	1/1	0.93	0.08	69,69,69,69	0
81	OHX	AR	3494	7/7	0.93	0.09	122,127,138,190	0
82	MG	3	214	1/1	0.93	0.19	56,56,56,56	0
82	MG	AR	4053	1/1	0.93	0.17	73,73,73,73	0
82	MG	AR	4054	1/1	0.93	0.17	53,53,53,53	0
81	OHX	AR	3564	7/7	0.93	0.08	162,164,168,220	0
82	MG	1	3742	1/1	0.93	0.31	44,44,44,44	0
82	MG	sR	2032	1/1	0.93	0.14	73,73,73,73	0
81	OHX	sR	1981	7/7	0.93	0.11	150,153,160,211	0
82	MG	AR	4059	1/1	0.93	0.25	76,76,76,76	0
82	MG	CD	303	1/1	0.93	0.22	64,64,64,64	0
82	MG	AR	3761	1/1	0.93	0.25	44,44,44,44	0
81	OHX	AR	3620	7/7	0.93	0.09	150,159,167,227	0
82	MG	1	3674	1/1	0.93	0.24	42,42,42,42	0
82	MG	1	3914	1/1	0.93	0.24	56,56,56,56	0
82	MG	sR	2041	1/1	0.93	0.32	55,55,55,55	0
82	MG	1	3747	1/1	0.93	0.34	47,47,47,47	0
81	OHX	sR	1985	7/7	0.93	0.12	129,136,147,202	0
82	MG	1	3917	1/1	0.93	0.12	76,76,76,76	0
82	MG	1	3835	1/1	0.93	0.10	78,78,78,78	0
82	MG	CI	301	1/1	0.93	0.15	65,65,65,65	0
82	MG	AR	3920	1/1	0.93	0.14	46,46,46,46	0
82	MG	sR	2049	1/1	0.93	0.16	67,67,67,67	0
82	MG	1	3676	1/1	0.93	0.20	43,43,43,43	0
81	OHX	AR	3565	7/7	0.93	0.11	127,134,141,209	0
82	MG	1	4011	1/1	0.93	0.32	76,76,76,76	0
81	OHX	AR	3567	7/7	0.93	0.10	139,141,150,213	0
81	OHX	1	3508	7/7	0.93	0.10	125,128,134,192	0
81	OHX	AR	3569	7/7	0.93	0.09	150,153,164,226	0
81	OHX	sR	1990	7/7	0.93	0.09	164,170,177,235	0
82	MG	1	3925	1/1	0.93	0.08	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3627	7/7	0.93	0.10	125,130,138,199	0
82	MG	l	403	1/1	0.93	0.10	64,64,64,64	0
82	MG	AR	4081	1/1	0.93	0.09	61,61,61,61	0
82	MG	AR	4083	1/1	0.93	0.18	69,69,69,69	0
82	MG	1	3685	1/1	0.93	0.22	43,43,43,43	0
82	MG	AR	4085	1/1	0.93	0.20	66,66,66,66	0
81	OHX	sR	1992	7/7	0.93	0.09	156,167,174,233	0
81	OHX	A	2120	7/7	0.93	0.10	155,159,163,211	0
82	MG	sR	2066	1/1	0.93	0.22	46,46,46,46	0
81	OHX	A	1923	7/7	0.93	0.10	140,145,150,200	0
81	OHX	A	2124	7/7	0.93	0.08	180,185,197,258	0
82	MG	AR	4091	1/1	0.93	0.08	75,75,75,75	0
82	MG	DF	201	1/1	0.93	0.18	63,63,63,63	0
82	MG	AR	3788	1/1	0.93	0.32	43,43,43,43	0
81	OHX	AR	3517	7/7	0.93	0.11	125,136,143,191	0
82	MG	AR	3943	1/1	0.93	0.20	52,52,52,52	0
82	MG	AR	4096	1/1	0.93	0.30	55,55,55,55	0
81	OHX	AR	3687[A]	7/7	0.93	0.21	134,135,139,158	7
82	MG	AR	4099	1/1	0.93	0.25	123,123,123,123	0
82	MG	1	3694	1/1	0.93	0.17	45,45,45,45	0
82	MG	1	3766	1/1	0.93	0.27	42,42,42,42	0
82	MG	AR	4105	1/1	0.93	0.17	52,52,52,52	0
82	MG	AR	4106	1/1	0.93	0.13	65,65,65,65	0
82	MG	A	1983	1/1	0.93	0.14	63,63,63,63	0
82	MG	1	3855	1/1	0.93	0.15	51,51,51,51	0
82	MG	A	1986	1/1	0.93	0.17	60,60,60,60	0
82	MG	sR	2085	1/1	0.93	0.20	54,54,54,54	0
82	MG	AR	4108	1/1	0.93	0.41	63,63,63,63	0
82	MG	AR	4109	1/1	0.93	0.12	43,43,43,43	0
82	MG	1	3938	1/1	0.93	0.32	70,70,70,70	0
82	MG	AR	3950	1/1	0.93	0.09	45,45,45,45	0
82	MG	A	1993	1/1	0.93	0.35	63,63,63,63	0
82	MG	A	1994	1/1	0.93	0.24	62,62,62,62	0
81	OHX	A	1934	7/7	0.93	0.08	177,179,181,226	0
82	MG	x	203	1/1	0.93	0.23	50,50,50,50	0
81	OHX	AR	3687[B]	7/7	0.93	0.21	129,134,139,161	7
82	MG	1	3858	1/1	0.93	0.12	47,47,47,47	0
82	MG	1	4035	1/1	0.93	0.35	61,61,61,61	0
82	MG	AR	3802	1/1	0.93	0.39	49,49,49,49	0
81	OHX	AR	3657	7/7	0.93	0.08	207,211,215,269	0
82	MG	AR	3804	1/1	0.93	0.34	55,55,55,55	0
82	MG	1	3624	1/1	0.93	0.19	45,45,45,45	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	6	201	1/1	0.93	0.35	46,46,46,46	0
81	OHX	1	3545	7/7	0.93	0.09	205,206,211,259	0
82	MG	AR	3811	1/1	0.93	0.37	41,41,41,41	0
81	OHX	AR	3523	7/7	0.93	0.10	142,146,156,214	0
81	OHX	1	4126	7/7	0.93	0.08	175,185,196,270	0
82	MG	sR	2108	1/1	0.93	0.11	73,73,73,73	0
82	MG	AR	4127	1/1	0.93	0.39	75,75,75,75	0
82	MG	1	3779	1/1	0.93	0.27	49,49,49,49	0
82	MG	sR	2111	1/1	0.93	0.08	78,78,78,78	0
82	MG	AR	3967	1/1	0.93	0.12	66,66,66,66	0
81	OHX	1	3480	7/7	0.93	0.13	119,127,135,181	0
82	MG	1	3868	1/1	0.93	0.30	61,61,61,61	0
82	MG	1	3782	1/1	0.93	0.37	42,42,42,42	0
82	MG	AR	3819	1/1	0.93	0.34	40,40,40,40	0
81	OHX	1	4103	7/7	0.93	0.13	122,126,130,197	0
81	OHX	1	3587	7/7	0.93	0.11	143,149,157,220	0
81	OHX	1	3517	7/7	0.93	0.10	134,147,152,214	0
81	OHX	AR	3636	7/7	0.93	0.09	142,153,161,222	0
81	OHX	AR	3548	7/7	0.93	0.11	125,127,139,193	0
82	MG	AR	3828	1/1	0.93	0.40	56,56,56,56	0
81	OHX	v	301	7/7	0.93	0.11	128,130,143,200	0
82	MG	AR	3695	1/1	0.93	0.37	58,58,58,58	0
82	MG	AR	3696	1/1	0.93	0.27	66,66,66,66	0
82	MG	1	3791	1/1	0.93	0.31	54,54,54,54	0
82	MG	1	3640	1/1	0.93	0.16	45,45,45,45	0
82	MG	1	3641	1/1	0.93	0.18	47,47,47,47	0
82	MG	AR	3987	1/1	0.93	0.18	56,56,56,56	0
81	OHX	AR	3552	7/7	0.93	0.12	116,124,133,190	0
82	MG	AR	3702	1/1	0.93	0.15	42,42,42,42	0
82	MG	AR	3703	1/1	0.93	0.36	41,41,41,41	0
82	MG	AR	3705	1/1	0.93	0.08	70,70,70,70	0
82	MG	1	3965	1/1	0.93	0.43	64,64,64,64	0
82	MG	AR	3845	1/1	0.93	0.27	43,43,43,43	0
81	OHX	A	1957	7/7	0.93	0.11	173,174,180,238	0
81	OHX	AR	4205	6/7	0.93	0.11	139,142,146,213	0
82	MG	1	4064	1/1	0.93	0.35	64,64,64,64	0
82	MG	1	3884	1/1	0.93	0.32	65,65,65,65	0
82	MG	AR	3852	1/1	0.93	0.28	51,51,51,51	0
82	MG	AR	3712	1/1	0.93	0.17	46,46,46,46	0
82	MG	AR	4002	1/1	0.93	0.14	61,61,61,61	0
82	MG	AR	4169	1/1	0.93	0.12	64,64,64,64	0
82	MG	AR	3858	1/1	0.93	0.45	59,59,59,59	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4005	1/1	0.93	0.20	41,41,41,41	0
82	MG	1	3969	1/1	0.93	0.11	66,66,66,66	0
82	MG	AR	4176	1/1	0.93	0.26	56,56,56,56	0
82	MG	1	3646	1/1	0.93	0.25	55,55,55,55	0
82	MG	1	4069	1/1	0.93	0.32	59,59,59,59	0
81	OHX	AS	3509	7/7	0.93	0.11	129,134,140,197	0
82	MG	AR	4182	1/1	0.93	0.24	54,54,54,54	0
82	MG	1	4073	1/1	0.93	0.25	69,69,69,69	0
81	OHX	1	3518	7/7	0.93	0.10	134,138,148,204	0
81	OHX	sR	1956	7/7	0.93	0.11	138,142,149,177	0
81	OHX	AR	3555	7/7	0.93	0.10	125,131,136,197	0
82	MG	sR	2162	1/1	0.93	0.10	47,47,47,47	0
82	MG	sR	2163	1/1	0.93	0.10	70,70,70,70	0
82	MG	AR	3724	1/1	0.93	0.31	56,56,56,56	0
82	MG	AR	3725	1/1	0.93	0.24	42,42,42,42	0
82	MG	1	3977	1/1	0.93	0.33	79,79,79,79	0
82	MG	AR	4019	1/1	0.93	0.09	68,68,68,68	0
82	MG	1	4080	1/1	0.93	0.30	60,60,60,60	0
82	MG	s2	301	1/1	0.93	0.11	91,91,91,91	0
81	OHX	1	4118	7/7	0.93	0.09	131,137,141,211	0
81	OHX	sR	1965	7/7	0.93	0.09	122,124,135,187	0
82	MG	1	3655	1/1	0.93	0.22	42,42,42,42	0
82	MG	1	3981	1/1	0.93	0.17	54,54,54,54	0
82	MG	AR	3881	1/1	0.93	0.09	48,48,48,48	0
82	MG	A	2075	1/1	0.93	0.24	59,59,59,59	0
81	OHX	sR	1966	7/7	0.93	0.10	123,126,142,203	0
82	MG	A	2077	1/1	0.93	0.10	76,76,76,76	0
82	MG	AR	3734	1/1	0.93	0.19	41,41,41,41	0
82	MG	AR	3887	1/1	0.93	0.17	53,53,53,53	0
82	MG	c9	201	1/1	0.93	0.06	74,74,74,74	0
82	MG	1	3728	1/1	0.93	0.24	45,45,45,45	0
81	OHX	1	3528	7/7	0.93	0.10	122,129,133,195	0
82	MG	AR	4033	1/1	0.93	0.09	58,58,58,58	0
82	MG	AR	3739	1/1	0.93	0.20	63,63,63,63	0
82	MG	AR	4035	1/1	0.93	0.10	70,70,70,70	0
82	MG	AR	4036	1/1	0.93	0.18	57,57,57,57	0
82	MG	AS	3521	1/1	0.93	0.24	51,51,51,51	0
81	OHX	AR	3560	7/7	0.93	0.10	146,149,155,217	0
81	OHX	AR	3645	7/7	0.93	0.10	127,134,149,214	0
82	MG	A	2091	1/1	0.93	0.28	61,61,61,61	0
84	XBI	1	4157	26/26	0.93	0.13	50,53,56,58	0
82	MG	1	3900	1/1	0.93	0.26	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	1	3990	1/1	0.93	0.22	67,67,67,67	0
82	MG	A	2094	1/1	0.93	0.40	76,76,76,76	0
82	MG	AR	3897	1/1	0.93	0.13	44,44,44,44	0
82	MG	AR	4100	1/1	0.94	0.12	45,45,45,45	0
82	MG	CQ	201	1/1	0.94	0.13	80,80,80,80	0
81	OHX	4	211	7/7	0.94	0.09	141,146,157,207	0
81	OHX	sR	1978	7/7	0.94	0.11	110,114,122,186	0
82	MG	1	4061	1/1	0.94	0.15	59,59,59,59	0
81	OHX	1	3510	7/7	0.94	0.10	130,137,145,214	0
81	OHX	1	3533	7/7	0.94	0.12	140,143,144,215	0
81	OHX	1	4108	7/7	0.94	0.09	108,124,125,191	0
82	MG	AR	3699	1/1	0.94	0.30	47,47,47,47	0
81	OHX	sR	1982	7/7	0.94	0.10	151,153,164,216	0
82	MG	1	3619	1/1	0.94	0.26	53,53,53,53	0
82	MG	1	3703	1/1	0.94	0.20	52,52,52,52	0
81	OHX	1	4114	7/7	0.94	0.10	123,127,131,192	0
82	MG	sR	2047	1/1	0.94	0.30	60,60,60,60	0
81	OHX	AT	209	7/7	0.94	0.11	110,113,119,178	0
82	MG	AR	3973	1/1	0.94	0.23	57,57,57,57	0
82	MG	AR	3831	1/1	0.94	0.38	53,53,53,53	0
82	MG	1	3885	1/1	0.94	0.06	59,59,59,59	0
82	MG	DH	202	1/1	0.94	0.07	57,57,57,57	0
82	MG	AR	3833	1/1	0.94	0.27	59,59,59,59	0
82	MG	1	3886	1/1	0.94	0.24	61,61,61,61	0
82	MG	1	3976	1/1	0.94	0.16	46,46,46,46	0
82	MG	1	3706	1/1	0.94	0.11	45,45,45,45	0
81	OHX	AT	211	7/7	0.94	0.10	124,129,140,198	0
82	MG	A	1976	1/1	0.94	0.18	72,72,72,72	0
82	MG	1	3623	1/1	0.94	0.13	46,46,46,46	0
81	OHX	1	3491	7/7	0.94	0.11	119,122,125,182	0
82	MG	1	3799	1/1	0.94	0.16	73,73,73,73	0
82	MG	1	3800	1/1	0.94	0.28	44,44,44,44	0
81	OHX	AT	213	7/7	0.94	0.09	128,130,144,205	0
82	MG	A	1984	1/1	0.94	0.20	68,68,68,68	0
81	OHX	AR	3557	7/7	0.94	0.09	139,143,148,202	0
82	MG	AR	4130	1/1	0.94	0.12	54,54,54,54	0
82	MG	A	1987	1/1	0.94	0.07	57,57,57,57	0
82	MG	AR	3719	1/1	0.94	0.24	47,47,47,47	0
82	MG	AR	3991	1/1	0.94	0.24	44,44,44,44	0
82	MG	1	3805	1/1	0.94	0.34	43,43,43,43	0
81	OHX	AT	216	7/7	0.94	0.08	151,156,166,230	0
82	MG	AR	3851	1/1	0.94	0.30	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	1	3808	1/1	0.94	0.28	45,45,45,45	0
82	MG	1	4149	1/1	0.94	0.07	96,96,96,96	0
82	MG	AR	3856	1/1	0.94	0.26	45,45,45,45	0
81	OHX	1	4117	7/7	0.94	0.11	119,123,138,185	0
81	OHX	1	3581	7/7	0.94	0.09	154,159,169,227	0
82	MG	A	1999	1/1	0.94	0.31	74,74,74,74	0
81	OHX	1	4120	6/7	0.94	0.11	117,126,129,186	0
81	OHX	1	3536	7/7	0.94	0.10	112,113,115,177	0
81	OHX	A	2119	7/7	0.94	0.10	136,144,151,212	0
82	MG	A	2003	1/1	0.94	0.16	57,57,57,57	0
81	OHX	AR	3442	7/7	0.94	0.17	74,92,100,120	0
81	OHX	1	3468	7/7	0.94	0.13	106,115,118,170	0
82	MG	AR	4149	1/1	0.94	0.29	66,66,66,66	0
81	OHX	A	2122	7/7	0.94	0.09	137,140,147,192	0
81	OHX	1	3521	7/7	0.94	0.11	120,124,138,185	0
82	MG	A	2009	1/1	0.94	0.33	68,68,68,68	0
82	MG	AR	3735	1/1	0.94	0.27	51,51,51,51	0
81	OHX	1	3522	7/7	0.94	0.09	136,144,147,198	0
81	OHX	AR	3506	7/7	0.94	0.13	106,112,116,176	0
82	MG	AR	4012	1/1	0.94	0.07	63,63,63,63	0
82	MG	AR	4157	1/1	0.94	0.33	43,43,43,43	0
82	MG	3	215	1/1	0.94	0.22	72,72,72,72	0
82	MG	1	3644	1/1	0.94	0.20	65,65,65,65	0
81	OHX	DL	102	7/7	0.94	0.11	109,115,118,170	0
81	OHX	AR	3509	7/7	0.94	0.15	97,109,117,183	0
82	MG	sR	2099	1/1	0.94	0.14	50,50,50,50	0
82	MG	AR	3879	1/1	0.94	0.20	41,41,41,41	0
81	OHX	A	1919	7/7	0.94	0.10	149,154,156,198	0
82	MG	AR	3746	1/1	0.94	0.26	41,41,41,41	0
82	MG	AR	4165	1/1	0.94	0.11	55,55,55,55	0
81	OHX	AR	3513	7/7	0.94	0.09	163,166,168,202	0
82	MG	1	3828	1/1	0.94	0.08	59,59,59,59	0
82	MG	AR	4168	1/1	0.94	0.26	50,50,50,50	0
81	OHX	A	1924	7/7	0.94	0.10	124,128,137,191	0
82	MG	AR	4170	1/1	0.94	0.25	62,62,62,62	0
82	MG	AR	4023	1/1	0.94	0.10	65,65,65,65	0
81	OHX	AR	3514	7/7	0.94	0.12	98,105,111,169	0
82	MG	1	3733	1/1	0.94	0.30	45,45,45,45	0
82	MG	sR	2113	1/1	0.94	0.08	69,69,69,69	0
82	MG	4	222	1/1	0.94	0.12	40,40,40,40	0
82	MG	A	2035	1/1	0.94	0.12	60,60,60,60	0
82	MG	AR	3753	1/1	0.94	0.10	92,92,92,92	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4178	1/1	0.94	0.13	59,59,59,59	0
82	MG	AR	3892	1/1	0.94	0.22	72,72,72,72	0
82	MG	4	223	1/1	0.94	0.27	59,59,59,59	0
82	MG	4	224	1/1	0.94	0.08	61,61,61,61	0
82	MG	1	3734	1/1	0.94	0.18	43,43,43,43	0
81	OHX	A	1932	7/7	0.94	0.09	139,145,150,193	0
82	MG	AR	3758	1/1	0.94	0.24	66,66,66,66	0
81	OHX	AR	3515	7/7	0.94	0.09	119,132,140,200	0
81	OHX	1	3513	7/7	0.94	0.09	145,148,154,212	0
81	OHX	A	2139	7/7	0.94	0.08	145,150,156,218	0
81	OHX	1	3474	7/7	0.94	0.10	107,110,117,164	0
81	OHX	A	1936	7/7	0.94	0.09	185,191,197,241	0
82	MG	4	233	1/1	0.94	0.14	60,60,60,60	0
81	OHX	1	3515	7/7	0.94	0.09	127,134,148,204	0
81	OHX	A	2144	7/7	0.94	0.09	137,140,144,186	0
82	MG	AR	3767	1/1	0.94	0.11	71,71,71,71	0
82	MG	j	303	1/1	0.94	0.11	50,50,50,50	0
82	MG	AR	4217	1/1	0.94	0.11	59,59,59,59	0
81	OHX	AR	3576	7/7	0.94	0.10	149,152,154,191	0
82	MG	AS	3511	1/1	0.94	0.24	51,51,51,51	0
82	MG	1	3664	1/1	0.94	0.29	60,60,60,60	0
82	MG	l	404	1/1	0.94	0.11	52,52,52,52	0
82	MG	1	3843	1/1	0.94	0.17	49,49,49,49	0
82	MG	1	3933	1/1	0.94	0.11	67,67,67,67	0
81	OHX	1	3527	7/7	0.94	0.10	125,130,134,195	0
82	MG	AR	3916	1/1	0.94	0.23	50,50,50,50	0
81	OHX	1	3490	7/7	0.94	0.12	108,116,121,183	0
82	MG	1	3668	1/1	0.94	0.13	58,58,58,58	0
82	MG	1	4028	1/1	0.94	0.21	58,58,58,58	0
81	OHX	AR	3532	7/7	0.94	0.10	129,134,143,202	0
81	OHX	S	201	7/7	0.94	0.10	180,182,185,246	0
82	MG	v	302	1/1	0.94	0.10	49,49,49,49	0
82	MG	AR	3783	1/1	0.94	0.21	65,65,65,65	0
81	OHX	AR	3582	7/7	0.94	0.10	120,125,133,192	0
81	OHX	AR	3583	7/7	0.94	0.08	146,151,155,213	0
82	MG	A	2073	1/1	0.94	0.12	57,57,57,57	0
82	MG	1	3673	1/1	0.94	0.37	45,45,45,45	0
81	OHX	sR	1901	7/7	0.94	0.11	140,141,145,214	0
82	MG	sR	2159	1/1	0.94	0.13	68,68,68,68	0
81	OHX	sR	1941	7/7	0.94	0.10	145,147,151,189	0
82	MG	AR	3789	1/1	0.94	0.35	44,44,44,44	0
82	MG	AR	3931	1/1	0.94	0.10	61,61,61,61	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	sR	1951	7/7	0.94	0.10	124,128,135,184	0
81	OHX	1	3529	7/7	0.94	0.11	125,127,138,197	0
82	MG	AT	221	1/1	0.94	0.22	63,63,63,63	0
81	OHX	sR	1957	7/7	0.94	0.12	158,160,162,200	0
81	OHX	AR	3536	7/7	0.94	0.09	129,135,148,191	0
82	MG	AR	4073	1/1	0.94	0.11	76,76,76,76	0
82	MG	AT	225	1/1	0.94	0.12	51,51,51,51	0
82	MG	1	4043	1/1	0.94	0.25	46,46,46,46	0
82	MG	A	2089	1/1	0.94	0.05	65,65,65,65	0
81	OHX	4	208	7/7	0.94	0.09	141,149,157,218	0
82	MG	AR	3939	1/1	0.94	0.06	68,68,68,68	0
81	OHX	A	1953	7/7	0.94	0.08	205,206,211,241	0
81	OHX	4	210	7/7	0.94	0.10	120,122,136,195	0
81	OHX	AR	3625	7/7	0.94	0.08	198,200,207,262	0
81	OHX	A	1956	7/7	0.94	0.09	171,176,182,233	0
82	MG	1	3956	1/1	0.94	0.17	43,43,43,43	0
81	OHX	sR	2174	7/7	0.94	0.26	101,103,104,133	7
81	OHX	sR	1971	7/7	0.94	0.09	137,143,151,206	0
81	OHX	AR	3662	7/7	0.94	0.08	183,190,194,244	0
82	MG	AR	3805	1/1	0.94	0.12	45,45,45,45	0
82	MG	AF	203	1/1	0.94	0.10	50,50,50,50	0
82	MG	CF	401	1/1	0.94	0.17	62,62,62,62	0
82	MG	AR	4089	1/1	0.94	0.25	74,74,74,74	0
82	MG	AF	204	1/1	0.94	0.08	47,47,47,47	0
82	MG	AG	201	1/1	0.94	0.07	50,50,50,50	0
82	MG	AR	3810	1/1	0.94	0.23	47,47,47,47	0
82	MG	CI	303	1/1	0.94	0.19	64,64,64,64	0
81	OHX	AR	3544	7/7	0.94	0.11	122,129,135,206	0
82	MG	sR	1902	1/1	0.94	0.12	69,69,69,69	0
81	OHX	AR	3546	7/7	0.94	0.11	125,129,141,215	0
82	MG	AR	3690	1/1	0.94	0.11	44,44,44,44	0
85	ZN	c	101	1/1	0.94	0.11	164,164,164,164	0
82	MG	AR	3814	1/1	0.94	0.17	53,53,53,53	0
81	OHX	AS	3506	7/7	0.94	0.12	114,116,127,186	0
82	MG	1	3665	1/1	0.95	0.20	49,49,49,49	0
81	OHX	1	3505	7/7	0.95	0.09	135,139,142,204	0
81	OHX	A	1920	7/7	0.95	0.10	135,135,142,179	0
81	OHX	1	3486	7/7	0.95	0.11	105,114,120,180	0
82	MG	AR	3925	1/1	0.95	0.25	62,62,62,62	0
82	MG	AR	3689	1/1	0.95	0.18	43,43,43,43	0
82	MG	AR	4174	1/1	0.95	0.18	55,55,55,55	0
81	OHX	1	3435	7/7	0.95	0.16	81,87,97,132	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	A	1925	7/7	0.95	0.10	137,140,145,189	0
81	OHX	1	3488	7/7	0.95	0.14	103,108,113,164	0
81	OHX	A	1927	7/7	0.95	0.10	128,134,141,204	0
81	OHX	A	1928	7/7	0.95	0.08	141,145,149,200	0
81	OHX	A	1930	7/7	0.95	0.10	131,137,144,202	0
81	OHX	A	2143	6/7	0.95	0.09	146,150,156,214	0
81	OHX	A	1931	7/7	0.95	0.10	122,125,133,178	0
81	OHX	AR	3559	7/7	0.95	0.08	123,134,145,201	0
82	MG	1	3877	1/1	0.95	0.28	60,60,60,60	0
82	MG	1	3773	1/1	0.95	0.38	51,51,51,51	0
82	MG	1	3678	1/1	0.95	0.28	60,60,60,60	0
81	OHX	AR	3477	7/7	0.95	0.13	94,96,98,144	0
82	MG	AR	3704	1/1	0.95	0.16	49,49,49,49	0
82	MG	A	2017	1/1	0.95	0.17	68,68,68,68	0
81	OHX	AR	3493	7/7	0.95	0.11	98,105,110,169	0
81	OHX	1	4121	7/7	0.95	0.09	150,157,166,208	0
82	MG	AR	3945	1/1	0.95	0.06	47,47,47,47	0
81	OHX	AR	3499	7/7	0.95	0.10	92,102,118,153	0
81	OHX	A	1937	7/7	0.95	0.10	150,154,161,216	0
82	MG	AR	4211	1/1	0.95	0.14	90,90,90,90	0
82	MG	AR	4215	1/1	0.95	0.11	52,52,52,52	0
82	MG	1	4085	1/1	0.95	0.11	81,81,81,81	0
82	MG	sR	2083	1/1	0.95	0.28	51,51,51,51	0
82	MG	AR	4221	1/1	0.95	0.09	90,90,90,90	0
82	MG	1	3784	1/1	0.95	0.21	40,40,40,40	0
82	MG	AR	3823	1/1	0.95	0.14	40,40,40,40	0
81	OHX	AR	3500	7/7	0.95	0.12	91,102,111,154	0
81	OHX	1	3538	7/7	0.95	0.08	144,148,155,212	0
82	MG	1	3983	1/1	0.95	0.12	81,81,81,81	0
81	OHX	sR	1920	7/7	0.95	0.12	82,93,104,140	0
81	OHX	sR	1933	7/7	0.95	0.13	94,103,112,146	0
81	OHX	sR	1935	7/7	0.95	0.10	119,125,129,170	0
81	OHX	AR	3566	7/7	0.95	0.09	139,148,153,220	0
82	MG	1	4154	1/1	0.95	0.06	78,78,78,78	0
81	OHX	sR	1942	7/7	0.95	0.12	90,97,102,147	0
81	OHX	1	3456	7/7	0.95	0.12	91,93,107,140	0
81	OHX	sR	1953	7/7	0.95	0.09	158,159,163,206	0
81	OHX	sR	1954	7/7	0.95	0.09	108,115,120,169	0
82	MG	AS	3524	1/1	0.95	0.15	62,62,62,62	0
81	OHX	AR	3507	7/7	0.95	0.09	133,138,142,184	0
81	OHX	1	3540	7/7	0.95	0.11	125,130,133,194	0
81	OHX	A	1946	7/7	0.95	0.10	161,165,169,204	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	sR	1962	7/7	0.95	0.11	124,130,137,198	0
81	OHX	A	1947	7/7	0.95	0.09	154,158,164,213	0
82	MG	AR	3731	1/1	0.95	0.06	64,64,64,64	0
81	OHX	1	3557	7/7	0.95	0.09	135,136,155,205	0
82	MG	sR	2107	1/1	0.95	0.08	62,62,62,62	0
82	MG	AR	4093	1/1	0.95	0.18	58,58,58,58	0
81	OHX	1	3523	7/7	0.95	0.08	125,125,138,183	0
81	OHX	1	3596	7/7	0.95	0.14	88,99,106,164	0
81	OHX	sR	1968	7/7	0.95	0.09	120,126,132,180	0
81	OHX	4	201	7/7	0.95	0.10	101,109,112,166	0
81	OHX	sR	1970	7/7	0.95	0.10	129,138,148,199	0
82	MG	AR	3854	1/1	0.95	0.21	48,48,48,48	0
81	OHX	AS	3505	7/7	0.95	0.11	100,104,122,157	0
82	MG	AR	4102	1/1	0.95	0.17	79,79,79,79	0
82	MG	1	3908	1/1	0.95	0.06	65,65,65,65	0
82	MG	AR	3741	1/1	0.95	0.28	41,41,41,41	0
81	OHX	1	3470	7/7	0.95	0.12	90,100,102,148	0
81	OHX	AS	3508	7/7	0.95	0.09	109,114,122,173	0
82	MG	AT	231	1/1	0.95	0.10	86,86,86,86	0
81	OHX	sR	1974	7/7	0.95	0.09	123,125,137,187	0
82	MG	A	2065	1/1	0.95	0.06	77,77,77,77	0
82	MG	1	3818	1/1	0.95	0.08	64,64,64,64	0
81	OHX	AR	3522	7/7	0.95	0.10	99,103,116,162	0
81	OHX	4	207	7/7	0.95	0.08	117,119,129,179	0
82	MG	4	227	1/1	0.95	0.06	57,57,57,57	0
82	MG	1	3625	1/1	0.95	0.20	44,44,44,44	0
82	MG	AR	4114	1/1	0.95	0.08	69,69,69,69	0
81	OHX	A	1958	7/7	0.95	0.08	147,156,160,220	0
82	MG	AR	3871	1/1	0.95	0.08	51,51,51,51	0
82	MG	AR	3872	1/1	0.95	0.09	51,51,51,51	0
81	OHX	1	3495	7/7	0.95	0.09	113,123,128,179	0
81	OHX	4	209	7/7	0.95	0.09	119,121,136,210	0
81	OHX	AR	3528	7/7	0.95	0.11	96,98,107,166	0
82	MG	sR	2137	1/1	0.95	0.14	90,90,90,90	0
81	OHX	AT	208	7/7	0.95	0.12	96,102,113,157	0
82	MG	CK	202	1/1	0.95	0.33	72,72,72,72	0
81	OHX	AR	3624	7/7	0.95	0.08	130,135,141,200	0
81	OHX	sR	1983	7/7	0.95	0.10	120,128,132,182	0
82	MG	A	2083	1/1	0.95	0.29	51,51,51,51	0
81	OHX	AT	210	7/7	0.95	0.09	132,133,144,196	0
82	MG	k	401	1/1	0.95	0.26	55,55,55,55	0
82	MG	1	3635	1/1	0.95	0.13	65,65,65,65	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3529	7/7	0.95	0.10	82,92,99,161	0
82	MG	AR	4004	1/1	0.95	0.29	57,57,57,57	0
82	MG	CQ	203	1/1	0.95	0.12	74,74,74,74	0
82	MG	CQ	204	1/1	0.95	0.36	58,58,58,58	0
82	MG	AR	3885	1/1	0.95	0.11	46,46,46,46	0
82	MG	1	3637	1/1	0.95	0.27	52,52,52,52	0
82	MG	1	3638	1/1	0.95	0.07	47,47,47,47	0
81	OHX	AR	3530	7/7	0.95	0.11	120,126,128,191	0
81	OHX	AR	3531	7/7	0.95	0.10	136,140,149,190	0
82	MG	1	4029	1/1	0.95	0.13	43,43,43,43	0
82	MG	CU	201	1/1	0.95	0.21	71,71,71,71	0
82	MG	sR	2158	1/1	0.95	0.18	66,66,66,66	0
81	OHX	1	4130	7/7	0.95	0.08	174,176,179,215	0
81	OHX	1	3496	7/7	0.95	0.09	122,129,133,179	0
81	OHX	1	3499	7/7	0.95	0.09	149,157,160,195	0
82	MG	1	4033	1/1	0.95	0.33	44,44,44,44	0
82	MG	A	2147	1/1	0.95	0.07	95,95,95,95	0
82	MG	A	2150	1/1	0.95	0.07	65,65,65,65	0
82	MG	AR	3771	1/1	0.95	0.15	64,64,64,64	0
81	OHX	1	3464	7/7	0.95	0.12	97,102,107,157	0
82	MG	H	301	1/1	0.95	0.07	76,76,76,76	0
81	OHX	1	3477	7/7	0.95	0.10	91,101,105,152	0
82	MG	AR	4143	1/1	0.95	0.26	59,59,59,59	0
81	OHX	k	402	7/7	0.95	0.09	125,129,142,193	0
81	OHX	1	3565	7/7	0.95	0.08	187,191,196,227	0
82	MG	1	3648	1/1	0.95	0.06	54,54,54,54	0
82	MG	DL	101	1/1	0.95	0.24	57,57,57,57	0
81	OHX	CL	301	7/7	0.95	0.10	134,139,146,195	0
82	MG	AR	4148	1/1	0.95	0.30	47,47,47,47	0
82	MG	DQ	503	1/1	0.95	0.13	66,66,66,66	0
81	OHX	AR	3547	7/7	0.95	0.10	121,125,137,192	0
82	MG	sM	301	1/1	0.95	0.09	48,48,48,48	0
81	OHX	1	3466	7/7	0.95	0.11	97,103,113,149	0
82	MG	1	3745	1/1	0.95	0.38	49,49,49,49	0
81	OHX	CP	303	7/7	0.95	0.09	133,142,146,203	0
81	OHX	AR	3549	7/7	0.95	0.11	118,121,129,194	0
81	OHX	CX	202	7/7	0.95	0.09	135,137,140,211	0
82	MG	A	1981	1/1	0.95	0.24	51,51,51,51	0
81	OHX	1	3549	7/7	0.95	0.11	121,124,132,198	0
81	OHX	z	201	7/7	0.95	0.13	123,128,131,195	0
81	OHX	1	4115	7/7	0.95	0.09	132,140,144,203	0
81	OHX	A	1908	7/7	0.95	0.12	83,97,105,139	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AB	203	1/1	0.95	0.26	56,56,56,56	0
83	SPD	1	4144	10/10	0.95	0.13	43,43,44,44	0
82	MG	1	3661	1/1	0.95	0.21	61,61,61,61	0
81	OHX	A	1914	7/7	0.95	0.12	125,128,130,176	0
82	MG	AR	4037	1/1	0.95	0.10	57,57,57,57	0
85	ZN	AH	201	1/1	0.95	0.10	147,147,147,147	0
85	ZN	AP	501	1/1	0.95	0.10	103,103,103,103	0
82	MG	1	3955	1/1	0.95	0.09	54,54,54,54	0
82	MG	AR	3793	1/1	0.95	0.20	43,43,43,43	0
81	OHX	A	1916	7/7	0.95	0.10	119,123,132,166	0
81	OHX	A	1917	7/7	0.95	0.10	114,118,126,176	0
81	OHX	A	1911	7/7	0.96	0.10	102,107,116,147	0
82	MG	A	1977	1/1	0.96	0.27	52,52,52,52	0
81	OHX	1	3451	7/7	0.96	0.14	77,95,103,134	0
81	OHX	A	1915	7/7	0.96	0.09	109,118,128,170	0
82	MG	AR	3839	1/1	0.96	0.32	42,42,42,42	0
81	OHX	1	3530	7/7	0.96	0.08	145,147,152,201	0
82	MG	AR	3707	1/1	0.96	0.08	48,48,48,48	0
81	OHX	1	3531	7/7	0.96	0.11	91,96,102,156	0
82	MG	1	3701	1/1	0.96	0.38	63,63,63,63	0
82	MG	1	3940	1/1	0.96	0.15	55,55,55,55	0
82	MG	1	3941	1/1	0.96	0.05	51,51,51,51	0
81	OHX	1	3489	7/7	0.96	0.11	98,100,109,163	0
81	OHX	1	3441	7/7	0.96	0.11	90,94,98,133	0
81	OHX	4	212	7/7	0.96	0.07	145,148,156,217	0
82	MG	AR	3850	1/1	0.96	0.29	43,43,43,43	0
81	OHX	1	3457	7/7	0.96	0.11	93,96,101,133	0
82	MG	A	1992	1/1	0.96	0.21	58,58,58,58	0
81	OHX	AR	3533	7/7	0.96	0.09	120,128,137,203	0
81	OHX	1	3492	7/7	0.96	0.09	128,128,140,191	0
81	OHX	AR	3606	7/7	0.96	0.11	104,105,109,170	0
81	OHX	1	3493	7/7	0.96	0.09	124,127,131,190	0
82	MG	AR	4155	1/1	0.96	0.27	68,68,68,68	0
81	OHX	A	1929	7/7	0.96	0.09	126,128,134,183	0
82	MG	AR	3860	1/1	0.96	0.41	41,41,41,41	0
81	OHX	sR	1911	7/7	0.96	0.12	91,102,107,128	0
82	MG	AR	3723	1/1	0.96	0.27	46,46,46,46	0
81	OHX	4	235	7/7	0.96	0.10	99,105,113,160	0
81	OHX	sR	1922	7/7	0.96	0.12	105,110,115,136	0
82	MG	AR	4011	1/1	0.96	0.21	69,69,69,69	0
81	OHX	sR	1923	7/7	0.96	0.10	99,101,105,143	0
81	OHX	sR	1925	7/7	0.96	0.11	98,102,110,145	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3538	7/7	0.96	0.08	125,126,136,181	0
81	OHX	sR	1934	7/7	0.96	0.11	77,84,94,140	0
81	OHX	AR	3539	7/7	0.96	0.11	92,100,106,163	0
81	OHX	AR	3540	7/7	0.96	0.10	117,127,135,186	0
81	OHX	1	3494	7/7	0.96	0.09	104,109,115,158	0
82	MG	1	4146	1/1	0.96	0.10	70,70,70,70	0
81	OHX	sR	1943	7/7	0.96	0.09	121,124,130,174	0
82	MG	A	2014	1/1	0.96	0.07	74,74,74,74	0
81	OHX	sR	1944	7/7	0.96	0.07	108,113,119,161	0
81	OHX	sR	1945	7/7	0.96	0.08	129,133,137,179	0
82	MG	AR	3737	1/1	0.96	0.36	50,50,50,50	0
82	MG	AR	4024	1/1	0.96	0.09	58,58,58,58	0
81	OHX	sR	1946	7/7	0.96	0.10	109,116,122,172	0
81	OHX	sR	1947	7/7	0.96	0.09	117,124,125,197	0
81	OHX	sR	1950[A]	7/7	0.96	0.21	111,115,118,123	7
81	OHX	sR	1950[B]	7/7	0.96	0.21	111,115,123,151	7
82	MG	AR	3883	1/1	0.96	0.06	53,53,53,53	0
82	MG	AR	3742	1/1	0.96	0.29	43,43,43,43	0
81	OHX	AR	3543	7/7	0.96	0.12	107,110,117,174	0
81	OHX	1	3473	7/7	0.96	0.09	114,118,123,165	0
81	OHX	AR	3545	7/7	0.96	0.09	126,128,135,194	0
82	MG	3	209	1/1	0.96	0.33	55,55,55,55	0
81	OHX	sR	1955	7/7	0.96	0.08	148,152,153,194	0
81	OHX	r	304	7/7	0.96	0.10	93,100,107,151	0
81	OHX	1	3459	7/7	0.96	0.11	98,101,105,142	0
81	OHX	sR	1959	7/7	0.96	0.09	107,115,122,178	0
81	OHX	sR	1960	7/7	0.96	0.08	125,130,137,184	0
81	OHX	1	3497	7/7	0.96	0.10	114,115,125,171	0
81	OHX	A	1941	7/7	0.96	0.10	149,149,156,215	0
82	MG	1	3861	1/1	0.96	0.25	53,53,53,53	0
81	OHX	1	3498	7/7	0.96	0.08	136,139,148,194	0
82	MG	AR	3899	1/1	0.96	0.06	64,64,64,64	0
81	OHX	sR	1964	7/7	0.96	0.09	115,118,119,176	0
81	OHX	AR	3550	7/7	0.96	0.09	127,131,135,184	0
81	OHX	1	3519[A]	7/7	0.96	0.14	96,101,107,129	7
82	MG	AR	4048	1/1	0.96	0.07	50,50,50,50	0
81	OHX	A	1945	7/7	0.96	0.09	146,148,152,194	0
82	MG	1	3985	1/1	0.96	0.24	55,55,55,55	0
81	OHX	1	3568	7/7	0.96	0.11	95,97,103,152	0
81	OHX	AR	3553	7/7	0.96	0.12	116,121,127,203	0
81	OHX	1	3519[B]	7/7	0.96	0.14	95,99,104,118	7
81	OHX	AR	3440	7/7	0.96	0.10	78,87,92,119	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4055	1/1	0.96	0.16	61,61,61,61	0
81	OHX	AR	3441	7/7	0.96	0.12	81,89,90,116	0
81	OHX	1	4099	7/7	0.96	0.13	79,91,100,136	0
82	MG	sR	2122	1/1	0.96	0.06	67,67,67,67	0
81	OHX	AR	3449	7/7	0.96	0.12	98,107,116,142	0
81	OHX	AR	3455	7/7	0.96	0.14	83,88,95,134	0
81	OHX	AR	3460	7/7	0.96	0.11	68,83,90,121	0
81	OHX	1	4101	7/7	0.96	0.09	123,126,129,174	0
81	OHX	AR	3473	7/7	0.96	0.12	82,89,102,133	0
81	OHX	AR	3474	7/7	0.96	0.11	76,95,98,144	0
82	MG	AS	3527	1/1	0.96	0.36	53,53,53,53	0
82	MG	1	3760	1/1	0.96	0.24	60,60,60,60	0
82	MG	AR	3774	1/1	0.96	0.08	49,49,49,49	0
81	OHX	AR	3475	7/7	0.96	0.13	82,96,104,132	0
81	OHX	1	3476	7/7	0.96	0.08	113,114,124,163	0
82	MG	1	4001	1/1	0.96	0.22	67,67,67,67	0
81	OHX	AR	3479	7/7	0.96	0.10	79,84,99,132	0
81	OHX	AR	3483	7/7	0.96	0.09	97,111,120,172	0
81	OHX	AR	3484	7/7	0.96	0.10	85,91,104,141	0
82	MG	sR	2138	1/1	0.96	0.11	70,70,70,70	0
81	OHX	AR	3487	7/7	0.96	0.10	91,98,107,148	0
81	OHX	AT	201	7/7	0.96	0.09	108,113,117,179	0
82	MG	1	3768	1/1	0.96	0.33	45,45,45,45	0
82	MG	1	3659	1/1	0.96	0.04	53,53,53,53	0
82	MG	r	302	1/1	0.96	0.12	47,47,47,47	0
81	OHX	AR	3488	7/7	0.96	0.09	110,119,123,162	0
81	OHX	AR	3492	7/7	0.96	0.09	92,100,112,151	0
81	OHX	1	3500	7/7	0.96	0.09	158,162,166,215	0
81	OHX	1	3463	7/7	0.96	0.10	89,96,104,135	0
82	MG	1	3775	1/1	0.96	0.22	45,45,45,45	0
81	OHX	AR	3495	7/7	0.96	0.10	97,105,111,178	0
81	OHX	A	1971	7/7	0.96	0.12	94,97,106,127	0
81	OHX	AR	3496	7/7	0.96	0.10	93,99,103,161	0
82	MG	AR	3938	1/1	0.96	0.11	55,55,55,55	0
81	OHX	1	3502	7/7	0.96	0.14	99,104,114,165	0
82	MG	AR	3940	1/1	0.96	0.24	52,52,52,52	0
81	OHX	1	4109	7/7	0.96	0.11	93,99,103,166	0
81	OHX	AT	214	7/7	0.96	0.07	146,155,157,209	0
81	OHX	AR	3501	7/7	0.96	0.11	129,131,133,207	0
81	OHX	A	2113	7/7	0.96	0.09	129,131,138,189	0
81	OHX	A	2114	7/7	0.96	0.11	116,122,126,171	0
81	OHX	sR	2000	7/7	0.96	0.10	118,122,133,195	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	x	208	1/1	0.96	0.32	60,60,60,60	0
81	OHX	A	2115	7/7	0.96	0.07	137,142,147,192	0
81	OHX	3	202	7/7	0.96	0.09	119,126,130,177	0
81	OHX	CE	403	7/7	0.96	0.08	101,107,118,166	0
82	MG	1	3792	1/1	0.96	0.30	51,51,51,51	0
81	OHX	1	4110	7/7	0.96	0.10	116,118,124,170	0
82	MG	1	3912	1/1	0.96	0.30	61,61,61,61	0
82	MG	sR	2179	1/1	0.96	0.11	94,94,94,94	0
82	MG	AR	3808	1/1	0.96	0.38	50,50,50,50	0
81	OHX	1	4112	7/7	0.96	0.09	123,124,132,190	0
81	OHX	1	4113	7/7	0.96	0.08	107,109,120,176	0
81	OHX	AR	3512	7/7	0.96	0.08	111,116,127,177	0
81	OHX	A	2125	7/7	0.96	0.08	128,131,134,191	0
82	MG	A	2149	1/1	0.96	0.08	84,84,84,84	0
82	MG	AR	3959	1/1	0.96	0.13	68,68,68,68	0
81	OHX	1	3478	7/7	0.96	0.10	98,101,110,151	0
81	OHX	1	3479	7/7	0.96	0.10	102,105,123,173	0
82	MG	1	3801	1/1	0.96	0.33	42,42,42,42	0
81	OHX	1	3442	7/7	0.96	0.11	98,101,113,138	0
81	OHX	AR	3516	7/7	0.96	0.10	101,112,121,167	0
81	OHX	1	3465	7/7	0.96	0.13	91,99,105,144	0
82	MG	1	3806	1/1	0.96	0.14	48,48,48,48	0
81	OHX	AR	3519	7/7	0.96	0.10	102,113,116,175	0
82	MG	AR	3821	1/1	0.96	0.21	47,47,47,47	0
82	MG	1	4044	1/1	0.96	0.23	58,58,58,58	0
81	OHX	AR	3520	7/7	0.96	0.09	118,124,131,186	0
82	MG	1	3809	1/1	0.96	0.08	55,55,55,55	0
82	MG	AR	3694	1/1	0.96	0.08	44,44,44,44	0
82	MG	AR	3826	1/1	0.96	0.27	55,55,55,55	0
82	MG	1	3810	1/1	0.96	0.19	46,46,46,46	0
82	MG	1	4048	1/1	0.96	0.18	50,50,50,50	0
81	OHX	1	3444	7/7	0.96	0.10	101,113,120,151	0
82	MG	1	3691	1/1	0.96	0.12	67,67,67,67	0
81	OHX	1	4119	7/7	0.96	0.08	140,143,149,201	0
82	MG	1	3693	1/1	0.96	0.23	51,51,51,51	0
81	OHX	4	206	7/7	0.96	0.09	96,100,109,156	0
82	MG	AR	3982	1/1	0.96	0.18	64,64,64,64	0
81	OHX	AR	3525	7/7	0.96	0.10	103,113,118,173	0
82	MG	AR	4134	1/1	0.96	0.26	43,43,43,43	0
82	MG	AR	3835	1/1	0.96	0.26	42,42,42,42	0
82	MG	1	4007	1/1	0.97	0.16	49,49,49,49	0
81	OHX	AR	3518	7/7	0.97	0.09	117,120,127,169	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3443	7/7	0.97	0.11	74,79,88,115	0
82	MG	CP	302	1/1	0.97	0.10	57,57,57,57	0
81	OHX	AR	3444	7/7	0.97	0.10	74,79,96,110	0
81	OHX	3	219	7/7	0.97	0.08	105,109,120,164	0
81	OHX	AR	3580	7/7	0.97	0.10	107,110,112,167	0
81	OHX	A	2138	7/7	0.97	0.08	115,119,122,176	0
81	OHX	AR	3450	7/7	0.97	0.11	81,81,86,114	0
81	OHX	AR	3451	7/7	0.97	0.10	99,104,111,132	0
81	OHX	AR	3452	7/7	0.97	0.11	91,95,101,138	0
81	OHX	1	3461	7/7	0.97	0.09	98,102,106,160	0
81	OHX	AR	3456	7/7	0.97	0.12	80,88,104,126	0
81	OHX	1	3462	7/7	0.97	0.09	102,102,108,138	0
82	MG	1	3737	1/1	0.97	0.30	45,45,45,45	0
81	OHX	AR	3463	7/7	0.97	0.12	83,86,98,130	0
81	OHX	AS	3501	7/7	0.97	0.08	92,98,109,149	0
82	MG	AR	3840	1/1	0.97	0.26	43,43,43,43	0
82	MG	1	3740	1/1	0.97	0.34	60,60,60,60	0
82	MG	A	2074	1/1	0.97	0.09	71,71,71,71	0
81	OHX	AR	3466	7/7	0.97	0.09	95,100,103,137	0
81	OHX	AR	3467	7/7	0.97	0.09	83,87,99,133	0
81	OHX	AS	3507	7/7	0.97	0.09	93,97,100,148	0
82	MG	j	302	1/1	0.97	0.11	43,43,43,43	0
81	OHX	T	201	7/7	0.97	0.10	108,113,119,140	0
81	OHX	AR	3471	7/7	0.97	0.09	94,96,101,143	0
81	OHX	1	4075	7/7	0.97	0.09	104,108,116,167	0
81	OHX	AR	3534	7/7	0.97	0.10	86,89,97,127	0
81	OHX	1	4096	7/7	0.97	0.10	89,91,102,129	0
81	OHX	1	3449	7/7	0.97	0.10	95,100,107,140	0
81	OHX	1	4100	7/7	0.97	0.09	92,99,103,156	0
81	OHX	AR	3476	7/7	0.97	0.10	91,98,104,145	0
82	MG	1	3845	1/1	0.97	0.20	53,53,53,53	0
81	OHX	1	3481	7/7	0.97	0.07	99,109,113,149	0
82	MG	AR	3857	1/1	0.97	0.20	49,49,49,49	0
81	OHX	sR	1927	7/7	0.97	0.08	102,108,112,148	0
82	MG	AR	3859	1/1	0.97	0.35	43,43,43,43	0
81	OHX	sR	1928	7/7	0.97	0.08	93,96,108,156	0
82	MG	1	3849	1/1	0.97	0.07	52,52,52,52	0
81	OHX	sR	1932	7/7	0.97	0.09	95,98,107,145	0
82	MG	1	4041	1/1	0.97	0.20	51,51,51,51	0
81	OHX	AR	3478[A]	7/7	0.97	0.19	72,74,81,81	7
81	OHX	AR	3541	7/7	0.97	0.08	147,151,156,185	0
81	OHX	AR	3478[B]	7/7	0.97	0.19	74,74,79,86	7

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4077	1/1	0.97	0.05	77,77,77,77	0
81	OHX	sR	1936	7/7	0.97	0.09	97,103,109,153	0
81	OHX	sR	1938	7/7	0.97	0.09	98,105,109,148	0
82	MG	A	2146	1/1	0.97	0.20	70,70,70,70	0
81	OHX	sR	1939	7/7	0.97	0.09	104,109,115,148	0
82	MG	AR	3870	1/1	0.97	0.17	44,44,44,44	0
81	OHX	sR	1940	7/7	0.97	0.09	111,113,121,169	0
81	OHX	1	4102	7/7	0.97	0.08	111,117,120,158	0
82	MG	AR	4207	1/1	0.97	0.08	95,95,95,95	0
82	MG	AR	4208	1/1	0.97	0.11	82,82,82,82	0
81	OHX	AR	3480	7/7	0.97	0.09	88,94,108,150	0
81	OHX	AR	3481	7/7	0.97	0.09	88,91,109,137	0
82	MG	AR	4214	1/1	0.97	0.16	108,108,108,108	0
81	OHX	1	3483	7/7	0.97	0.08	123,127,135,185	0
82	MG	1	3862	1/1	0.97	0.12	44,44,44,44	0
82	MG	AR	3981	1/1	0.97	0.17	61,61,61,61	0
81	OHX	1	4104	7/7	0.97	0.10	91,96,102,148	0
81	OHX	AR	3485	7/7	0.97	0.09	90,93,98,139	0
82	MG	1	3682	1/1	0.97	0.20	62,62,62,62	0
81	OHX	AR	3486	7/7	0.97	0.09	85,91,95,128	0
81	OHX	sR	1948	7/7	0.97	0.09	105,109,114,165	0
82	MG	AR	3882	1/1	0.97	0.26	60,60,60,60	0
81	OHX	sR	1949	7/7	0.97	0.08	100,107,115,163	0
82	MG	sR	2036	1/1	0.97	0.25	59,59,59,59	0
82	MG	1	3869	1/1	0.97	0.06	70,70,70,70	0
82	MG	1	3774	1/1	0.97	0.34	46,46,46,46	0
81	OHX	1	3484	7/7	0.97	0.10	100,108,117,162	0
82	MG	1	3776	1/1	0.97	0.23	43,43,43,43	0
81	OHX	1	4106	7/7	0.97	0.12	70,77,89,109	0
82	MG	AR	4103	1/1	0.97	0.14	56,56,56,56	0
81	OHX	AR	3490	7/7	0.97	0.09	90,101,107,164	0
81	OHX	sR	1952	7/7	0.97	0.07	119,126,132,166	0
81	OHX	AR	3491	7/7	0.97	0.09	107,108,114,170	0
81	OHX	1	3485[A]	7/7	0.97	0.25	90,93,94,96	7
81	OHX	1	3485[B]	7/7	0.97	0.25	90,91,95,124	7
81	OHX	1	3450	7/7	0.97	0.09	92,93,100,128	0
82	MG	AR	3895	1/1	0.97	0.16	42,42,42,42	0
81	OHX	1	3440	7/7	0.97	0.09	81,91,97,131	0
81	OHX	sR	1958	7/7	0.97	0.09	111,117,120,165	0
81	OHX	CQ	202	7/7	0.97	0.09	83,91,99,147	0
81	OHX	1	4111	7/7	0.97	0.08	103,110,116,162	0
81	OHX	1	3453	7/7	0.97	0.10	85,94,104,128	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	1	3454	7/7	0.97	0.10	90,96,107,139	0
81	OHX	1	3455	7/7	0.97	0.11	92,99,106,135	0
81	OHX	1	3422	7/7	0.97	0.16	75,84,90,115	0
81	OHX	A	1906	7/7	0.97	0.10	100,104,108,133	0
82	MG	A	2029	1/1	0.97	0.14	54,54,54,54	0
81	OHX	A	1907	7/7	0.97	0.09	117,124,128,154	0
81	OHX	AR	3503	7/7	0.97	0.08	97,105,115,164	0
81	OHX	AR	3504	7/7	0.97	0.09	89,96,102,138	0
81	OHX	A	1912	7/7	0.97	0.08	108,113,114,155	0
81	OHX	A	2117	7/7	0.97	0.11	114,118,126,169	0
82	MG	1	3708	1/1	0.97	0.15	43,43,43,43	0
82	MG	1	3802	1/1	0.97	0.45	43,43,43,43	0
81	OHX	A	2118	7/7	0.97	0.08	115,120,124,178	0
82	MG	d3	203	1/1	0.97	0.29	86,86,86,86	0
81	OHX	A	1913	7/7	0.97	0.08	117,128,131,173	0
82	MG	CD	302	1/1	0.97	0.36	41,41,41,41	0
81	OHX	AR	3505	7/7	0.97	0.09	103,104,113,168	0
82	MG	1	3627	1/1	0.97	0.23	58,58,58,58	0
82	MG	1	4156	1/1	0.97	0.06	80,80,80,80	0
81	OHX	1	3472	7/7	0.97	0.08	94,101,110,146	0
81	OHX	1	3436	7/7	0.97	0.11	86,93,100,124	0
81	OHX	A	2123	7/7	0.97	0.08	118,122,124,173	0
81	OHX	AK	103	7/7	0.97	0.10	86,96,102,129	0
81	OHX	A	1918	7/7	0.97	0.07	123,125,129,175	0
81	OHX	1	3458	7/7	0.97	0.11	90,95,106,143	0
81	OHX	AR	3430	7/7	0.97	0.12	79,86,89,116	0
81	OHX	AR	3432	7/7	0.97	0.14	75,84,88,106	0
81	OHX	1	3475	7/7	0.97	0.10	95,100,112,156	0
85	ZN	DQ	501	1/1	0.97	0.07	136,136,136,136	0
85	ZN	DR	501	1/1	0.97	0.04	85,85,85,85	0
81	OHX	1	3437	7/7	0.97	0.11	74,83,92,114	0
82	MG	1	3910	1/1	0.97	0.33	55,55,55,55	0
85	ZN	d9	101	1/1	0.97	0.06	97,97,97,97	0
81	OHX	1	3460	7/7	0.97	0.09	93,95,110,145	0
82	MG	v	303	1/1	0.98	0.05	52,52,52,52	0
81	OHX	3	220	7/7	0.98	0.08	96,103,115,150	0
81	OHX	A	2137	7/7	0.98	0.07	93,97,103,133	0
81	OHX	1	3427	7/7	0.98	0.08	86,88,98,124	0
81	OHX	AR	3446	7/7	0.98	0.10	76,84,90,101	0
81	OHX	AR	3447	7/7	0.98	0.08	82,90,95,120	0
81	OHX	AR	3448	7/7	0.98	0.10	87,93,101,127	0
81	OHX	AR	3508	7/7	0.98	0.10	77,79,88,110	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	1	3445	7/7	0.98	0.10	92,97,98,138	0
82	MG	1	4050	1/1	0.98	0.30	53,53,53,53	0
81	OHX	AR	3510	7/7	0.98	0.06	107,110,118,156	0
81	OHX	AR	3511[A]	7/7	0.98	0.12	80,81,85,99	7
82	MG	AR	4082	1/1	0.98	0.06	65,65,65,65	0
81	OHX	AR	3511[B]	7/7	0.98	0.12	83,85,85,111	7
81	OHX	1	3467[A]	6/7	0.98	0.22	69,73,78,79	6
81	OHX	1	3467[B]	6/7	0.98	0.22	75,78,82,112	6
81	OHX	4	205	7/7	0.98	0.09	78,87,91,114	0
81	OHX	AS	3503	7/7	0.98	0.09	83,86,90,116	0
81	OHX	AS	3504	7/7	0.98	0.09	90,94,99,127	0
81	OHX	AR	3577	7/7	0.98	0.08	96,101,111,166	0
81	OHX	AR	3453	7/7	0.98	0.07	84,85,96,120	0
81	OHX	AR	3454	7/7	0.98	0.10	94,95,97,129	0
82	MG	AR	4213	1/1	0.98	0.06	77,77,77,77	0
81	OHX	sR	1915	7/7	0.98	0.10	96,98,102,118	0
82	MG	AR	3989	1/1	0.98	0.17	60,60,60,60	0
81	OHX	sR	1918	7/7	0.98	0.09	84,91,95,122	0
82	MG	AR	4219	1/1	0.98	0.07	43,43,43,43	0
82	MG	AR	4220	1/1	0.98	0.10	50,50,50,50	0
81	OHX	1	4097	7/7	0.98	0.09	87,95,98,131	0
81	OHX	sR	1921	7/7	0.98	0.08	92,97,105,143	0
81	OHX	1	3447	7/7	0.98	0.10	74,84,96,119	0
82	MG	AR	4098	1/1	0.98	0.12	63,63,63,63	0
81	OHX	AR	3457	7/7	0.98	0.07	80,86,91,115	0
81	OHX	sR	1924	7/7	0.98	0.07	88,95,101,127	0
81	OHX	AR	3458	7/7	0.98	0.10	79,88,99,129	0
81	OHX	sR	1926	7/7	0.98	0.09	93,95,102,139	0
81	OHX	AR	3459	7/7	0.98	0.11	76,81,97,99	0
81	OHX	A	1948	7/7	0.98	0.07	110,111,122,152	0
82	MG	1	3974	1/1	0.98	0.09	72,72,72,72	0
82	MG	1	3780	1/1	0.98	0.33	46,46,46,46	0
81	OHX	sR	1929	7/7	0.98	0.08	110,116,121,154	0
81	OHX	sR	1930	7/7	0.98	0.07	119,122,127,152	0
81	OHX	sR	1931	7/7	0.98	0.08	90,94,96,127	0
81	OHX	1	3448	7/7	0.98	0.08	81,86,94,116	0
81	OHX	AR	3461	7/7	0.98	0.09	86,95,99,131	0
82	MG	1	3786	1/1	0.98	0.37	46,46,46,46	0
81	OHX	AT	207	7/7	0.98	0.11	83,86,93,108	0
81	OHX	AR	3524	7/7	0.98	0.08	116,117,121,172	0
81	OHX	AR	3462	7/7	0.98	0.08	89,94,101,131	0
81	OHX	sR	1937	7/7	0.98	0.08	93,94,102,137	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	1	3429	7/7	0.98	0.09	85,87,97,109	0
81	OHX	AR	3464	7/7	0.98	0.09	82,88,94,113	0
81	OHX	AR	3465	7/7	0.98	0.11	92,94,102,121	0
81	OHX	1	3471	7/7	0.98	0.08	89,96,98,135	0
82	MG	1	3795	1/1	0.98	0.39	50,50,50,50	0
81	OHX	1	3430	7/7	0.98	0.12	78,86,91,106	0
81	OHX	AR	3469	7/7	0.98	0.08	90,97,102,136	0
82	MG	AR	3713	1/1	0.98	0.10	46,46,46,46	0
81	OHX	1	3431	7/7	0.98	0.10	82,83,101,113	0
81	OHX	1	3452	7/7	0.98	0.09	100,102,107,138	0
81	OHX	1	3432	7/7	0.98	0.10	86,89,96,116	0
81	OHX	1	3433	7/7	0.98	0.10	81,86,97,113	0
81	OHX	1	3434	7/7	0.98	0.10	88,91,95,120	0
81	OHX	1	3419	7/7	0.98	0.10	81,84,94,99	0
81	OHX	1	3418	7/7	0.98	0.11	75,86,93,101	0
81	OHX	1	3423	7/7	0.98	0.13	61,79,88,107	0
81	OHX	1	3438	7/7	0.98	0.10	86,92,103,133	0
81	OHX	1	3482[A]	7/7	0.98	0.14	84,85,98,101	7
81	OHX	1	3482[B]	7/7	0.98	0.14	88,88,98,111	7
81	OHX	1	4143	7/7	0.98	0.10	104,108,111,114	0
81	OHX	AR	3482	7/7	0.98	0.07	83,89,93,122	0
81	OHX	CX	201	7/7	0.98	0.09	88,90,101,126	0
82	MG	sR	2180	1/1	0.98	0.10	85,85,85,85	0
82	MG	sR	2181	1/1	0.98	0.07	76,76,76,76	0
82	MG	sR	2182	1/1	0.98	0.13	59,59,59,59	0
81	OHX	3	201	7/7	0.98	0.07	85,87,100,118	0
81	OHX	DD	101	7/7	0.98	0.10	69,79,90,92	0
81	OHX	1	3439	7/7	0.98	0.08	97,99,103,139	0
82	MG	1	3717	1/1	0.98	0.49	62,62,62,62	0
81	OHX	A	2106	7/7	0.98	0.08	94,98,103,123	0
81	OHX	A	2107	7/7	0.98	0.09	93,102,110,122	0
81	OHX	A	2108	7/7	0.98	0.10	97,99,106,141	0
81	OHX	A	2109	7/7	0.98	0.08	95,100,102,129	0
81	OHX	A	2110	7/7	0.98	0.08	99,100,103,133	0
81	OHX	A	2111	7/7	0.98	0.08	95,101,105,148	0
81	OHX	A	2112	7/7	0.98	0.07	124,127,130,168	0
81	OHX	1	3424	7/7	0.98	0.10	78,85,99,104	0
81	OHX	AR	3413	7/7	0.98	0.11	80,89,92,95	0
81	OHX	A	1901	7/7	0.98	0.12	85,95,98,108	0
81	OHX	A	1903	7/7	0.98	0.10	86,89,99,122	0
81	OHX	AR	3414	7/7	0.98	0.14	84,85,92,93	0
81	OHX	AR	3416	7/7	0.98	0.11	58,73,82,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3418	7/7	0.98	0.11	65,80,88,89	0
81	OHX	A	1909	7/7	0.98	0.08	94,97,101,130	0
81	OHX	A	1910	7/7	0.98	0.08	101,103,111,142	0
81	OHX	AR	3427	7/7	0.98	0.12	59,81,85,95	0
81	OHX	1	3425	7/7	0.98	0.09	81,83,89,106	0
81	OHX	1	3426	7/7	0.98	0.09	84,90,99,104	0
81	OHX	AR	3433	7/7	0.98	0.11	79,87,100,110	0
82	MG	AR	3853	1/1	0.98	0.36	49,49,49,49	0
81	OHX	AR	3434	7/7	0.98	0.11	82,84,95,103	0
81	OHX	AR	3435	7/7	0.98	0.10	78,84,97,108	0
81	OHX	AR	3497	7/7	0.98	0.06	120,125,130,166	0
81	OHX	AR	3498	7/7	0.98	0.07	105,110,118,151	0
85	ZN	AQ	501	1/1	0.98	0.04	83,83,83,83	0
81	OHX	AR	3436	7/7	0.98	0.09	79,86,90,109	0
81	OHX	1	3535[A]	7/7	0.98	0.19	86,89,97,97	7
81	OHX	A	1921	7/7	0.98	0.07	124,128,131,176	0
81	OHX	A	1922	7/7	0.98	0.07	111,119,127,158	0
82	MG	1	3652	1/1	0.98	0.31	52,52,52,52	0
81	OHX	1	3535[B]	7/7	0.98	0.19	84,89,96,108	7
81	OHX	1	3443	7/7	0.98	0.08	83,85,93,125	0
82	MG	A	2148	1/1	0.99	0.10	52,52,52,52	0
81	OHX	AR	3445	7/7	0.99	0.09	78,81,85,114	0
81	OHX	1	4098	7/7	0.99	0.09	77,81,88,107	0
81	OHX	1	3428	7/7	0.99	0.09	78,83,87,96	0
81	OHX	1	3410	7/7	0.99	0.07	82,83,88,100	0
81	OHX	1	3411	7/7	0.99	0.11	72,75,84,85	0
81	OHX	1	3412	7/7	0.99	0.08	78,79,90,94	0
81	OHX	1	3413	7/7	0.99	0.10	74,75,83,93	0
81	OHX	1	3414	7/7	0.99	0.10	74,80,86,94	0
81	OHX	1	3415	7/7	0.99	0.13	74,81,83,89	0
81	OHX	1	3416	7/7	0.99	0.09	81,82,91,96	0
81	OHX	1	3417	7/7	0.99	0.11	81,82,90,102	0
81	OHX	1	3401	7/7	0.99	0.11	47,52,58,66	0
81	OHX	AT	206	7/7	0.99	0.12	74,80,84,90	0
81	OHX	1	3402	7/7	0.99	0.10	67,68,70,70	0
81	OHX	1	3420	7/7	0.99	0.08	81,82,88,94	0
81	OHX	1	3421	7/7	0.99	0.07	79,84,93,106	0
81	OHX	AC	101	7/7	0.99	0.11	63,79,84,86	0
82	MG	1	4153	1/1	0.99	0.06	59,59,59,59	0
81	OHX	1	3403	7/7	0.99	0.10	48,50,57,66	0
81	OHX	1	3404	7/7	0.99	0.11	71,77,81,85	0
81	OHX	1	3405	7/7	0.99	0.13	70,78,88,96	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3401	7/7	0.99	0.10	63,64,69,70	0
81	OHX	AR	3402	7/7	0.99	0.12	53,61,66,70	0
81	OHX	AR	3403	7/7	0.99	0.10	54,58,62,67	0
81	OHX	AR	3405	7/7	0.99	0.13	64,71,72,74	0
81	OHX	AR	3468	7/7	0.99	0.07	89,92,97,121	0
81	OHX	sR	1903	7/7	0.99	0.10	63,67,70,78	0
81	OHX	sR	1904	7/7	0.99	0.11	77,86,90,100	0
81	OHX	sR	1905	7/7	0.99	0.11	74,76,82,84	0
81	OHX	sR	1906	7/7	0.99	0.08	82,82,91,100	0
81	OHX	sR	1907	7/7	0.99	0.09	68,84,90,100	0
81	OHX	sR	1908	7/7	0.99	0.08	80,83,86,96	0
81	OHX	sR	1909	7/7	0.99	0.10	77,80,88,97	0
81	OHX	sR	1910	7/7	0.99	0.10	73,82,86,105	0
81	OHX	AR	3406	7/7	0.99	0.09	75,76,81,82	0
81	OHX	sR	1912	7/7	0.99	0.09	73,79,83,94	0
81	OHX	sR	1913	7/7	0.99	0.07	83,86,91,107	0
81	OHX	sR	1914	7/7	0.99	0.08	84,85,89,109	0
81	OHX	AR	3470	7/7	0.99	0.06	97,100,107,139	0
81	OHX	sR	1916[A]	7/7	0.99	0.18	68,71,72,80	7
81	OHX	sR	1916[B]	7/7	0.99	0.18	73,75,81,117	7
81	OHX	sR	1917	7/7	0.99	0.07	82,83,91,110	0
81	OHX	AR	3407	7/7	0.99	0.11	65,67,72,72	0
81	OHX	sR	1919	7/7	0.99	0.07	80,84,94,114	0
81	OHX	AR	3408	7/7	0.99	0.11	77,83,85,88	0
82	MG	1	3757	1/1	0.99	0.13	44,44,44,44	0
81	OHX	AR	3409	7/7	0.99	0.10	62,64,73,75	0
81	OHX	AR	3410	7/7	0.99	0.08	61,62,65,73	0
81	OHX	AR	3411	7/7	0.99	0.12	79,81,90,94	0
81	OHX	AR	3412	7/7	0.99	0.10	72,76,84,85	0
81	OHX	1	3406	7/7	0.99	0.08	78,80,82,83	0
81	OHX	1	4072	7/7	0.99	0.09	73,78,83,87	0
81	OHX	AR	3415	7/7	0.99	0.10	75,81,86,95	0
81	OHX	1	3407	7/7	0.99	0.09	71,78,84,86	0
81	OHX	AR	3417	7/7	0.99	0.10	81,82,86,97	0
81	OHX	1	4076	7/7	0.99	0.09	74,76,83,91	0
81	OHX	AR	3419	7/7	0.99	0.07	76,79,86,90	0
82	MG	AR	4210	1/1	0.99	0.05	41,41,41,41	0
81	OHX	AR	3420	7/7	0.99	0.09	76,80,88,95	0
82	MG	AR	4212	1/1	0.99	0.05	60,60,60,60	0
81	OHX	AR	3421	7/7	0.99	0.10	75,83,87,93	0
81	OHX	A	1902	7/7	0.99	0.09	84,85,89,107	0
81	OHX	AR	3422	7/7	0.99	0.06	73,80,84,91	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
82	MG	AR	4216	1/1	0.99	0.04	44,44,44,44	0
81	OHX	A	1904	7/7	0.99	0.08	92,95,99,121	0
82	MG	AR	4218	1/1	0.99	0.14	42,42,42,42	0
81	OHX	A	1905	7/7	0.99	0.08	96,99,105,129	0
81	OHX	AR	3423	7/7	0.99	0.09	78,83,87,89	0
81	OHX	A	2103	7/7	0.99	0.10	73,85,92,95	0
81	OHX	A	2104	7/7	0.99	0.11	85,88,90,102	0
81	OHX	A	2105	7/7	0.99	0.09	85,88,95,107	0
81	OHX	AR	3424	7/7	0.99	0.11	77,84,92,94	0
81	OHX	AR	3425	7/7	0.99	0.10	83,87,89,99	0
81	OHX	AR	3489	7/7	0.99	0.10	81,82,91,112	0
81	OHX	AR	3426	7/7	0.99	0.08	78,79,88,94	0
81	OHX	1	4087	7/7	0.99	0.12	63,68,74,76	0
81	OHX	AR	3428	7/7	0.99	0.07	75,81,87,103	0
81	OHX	AR	3429	7/7	0.99	0.09	75,81,86,102	0
81	OHX	1	4088	7/7	0.99	0.10	64,67,73,75	0
81	OHX	AR	3431	7/7	0.99	0.09	80,82,90,90	0
81	OHX	1	4089	7/7	0.99	0.09	76,78,84,85	0
81	OHX	AR	4179	7/7	0.99	0.12	60,67,75,77	0
81	OHX	s1	301	7/7	0.99	0.09	74,82,91,102	0
81	OHX	1	4090	6/7	0.99	0.10	72,79,83,90	0
81	OHX	1	4091	7/7	0.99	0.10	80,85,92,97	0
81	OHX	1	4092	7/7	0.99	0.09	78,81,84,95	0
85	ZN	AK	102	1/1	0.99	0.02	54,54,54,54	0
85	ZN	AN	500	1/1	0.99	0.02	59,59,59,59	0
81	OHX	4	204	7/7	0.99	0.10	69,78,83,83	0
81	OHX	AR	3437	7/7	0.99	0.09	74,83,87,94	0
81	OHX	AR	3438	7/7	0.99	0.09	80,82,89,104	0
85	ZN	DL	103	1/1	0.99	0.04	58,58,58,58	0
85	ZN	DO	201	1/1	0.99	0.03	50,50,50,50	0
81	OHX	AR	3439	7/7	0.99	0.07	91,97,99,123	0
81	OHX	1	4093	7/7	0.99	0.09	80,82,91,92	0
85	ZN	b	201	1/1	0.99	0.04	92,92,92,92	0
81	OHX	1	4094	7/7	0.99	0.07	80,88,91,96	0
85	ZN	e	101	1/1	0.99	0.04	94,94,94,94	0
85	ZN	g	501	1/1	0.99	0.03	136,136,136,136	0
85	ZN	d6	202	1/1	0.99	0.04	66,66,66,66	0
81	OHX	1	4095	7/7	0.99	0.08	90,92,97,125	0
81	OHX	1	3446	7/7	0.99	0.06	92,94,100,129	0
81	OHX	1	3408	7/7	0.99	0.09	72,77,81,81	0
81	OHX	1	3409	7/7	1.00	0.08	73,79,89,89	0
81	OHX	1	4071	7/7	1.00	0.09	64,67,73,74	0

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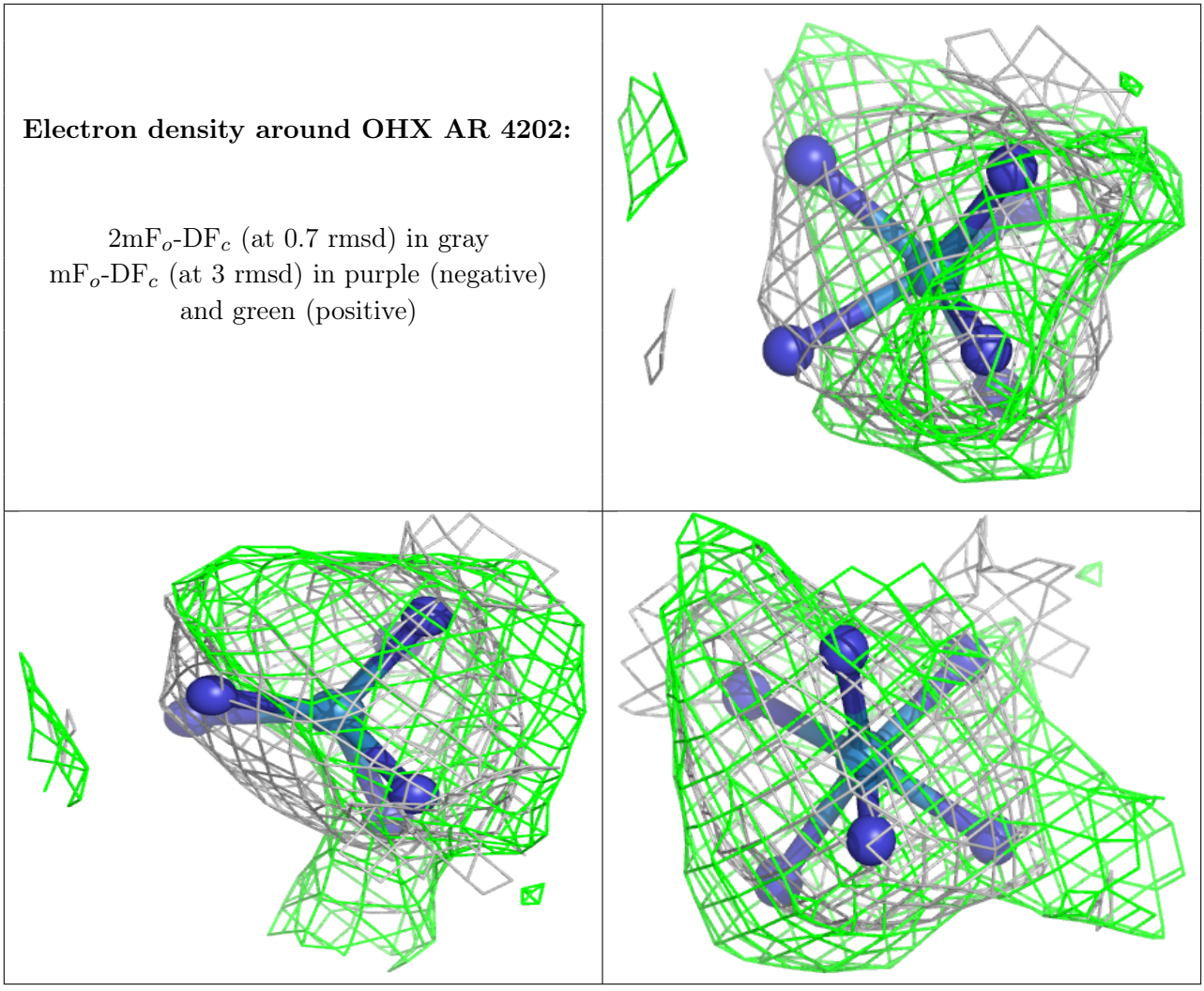
Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å^2)	Q<0.9
81	OHX	AR	3404	7/7	1.00	0.08	60,66,66,74	0
81	OHX	CP	301	7/7	1.00	0.09	77,77,81,85	0

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

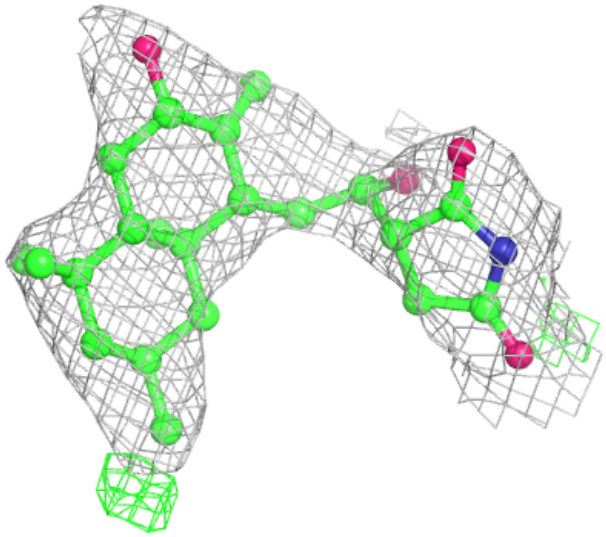
Electron density around OHX AR 4202:

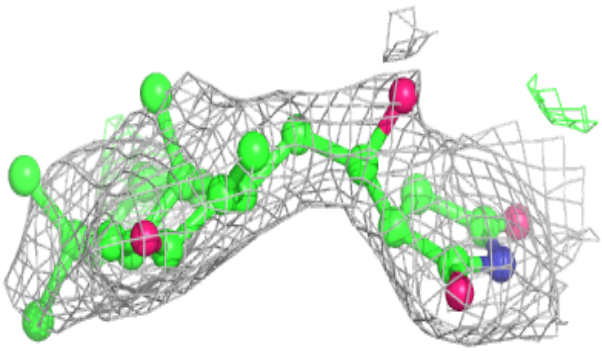
$2mF_o$-DF_c (at 0.7 rmsd) in gray
mF_o-DF_c (at 3 rmsd) in purple (negative) and green (positive)

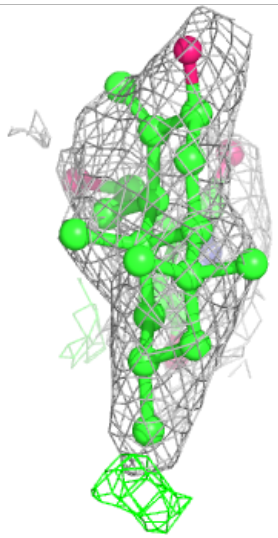


Electron density around XBI AR 4222:

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

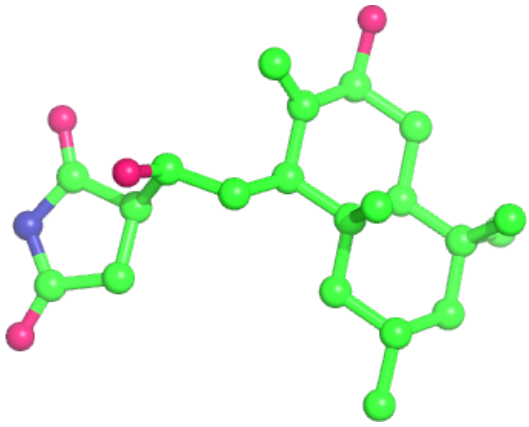


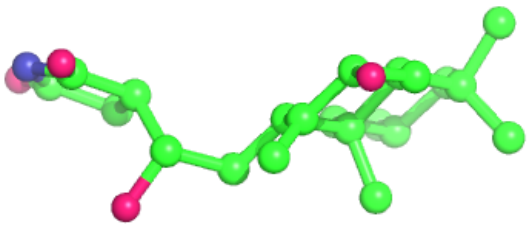


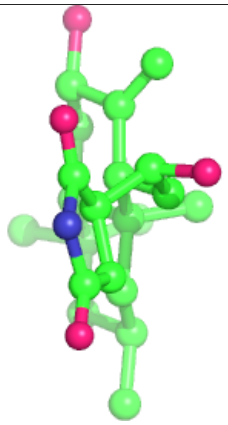


Electron density around XBI 1 4157:

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







6.5 Other polymers

There are no such residues in this entry.