



Full wwPDB X-ray Structure Validation Report ⓘ

Sep 5, 2024 – 12:38 am BST

PDB ID : 8CQ7
Title : Crystal structure of phyllanthoside bound to the *Candida albicans* 80S ribosome
Authors : Kolosova, O.; Zgadzay, Y.; Yusupov, M.
Deposited on : 2023-03-03
Resolution : 3.20 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 ⓘ 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 ⓘ](#)) 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 : 9.0.002 (Gargrove)
Density-Fitness : 1.0.11
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.38.2

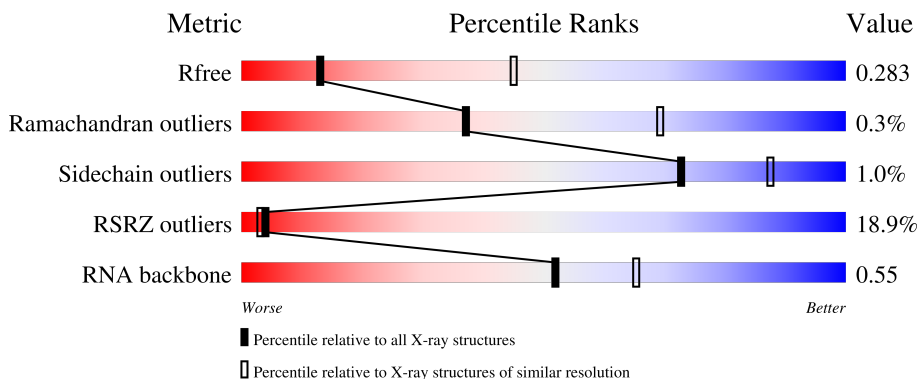
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 3.20 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	1370 (3.20-3.20)
Ramachandran outliers	177936	1479 (3.20-3.20)
Sidechain outliers	177891	1478 (3.20-3.20)
RSRZ outliers	164620	1371 (3.20-3.20)
RNA backbone	3690	1111 (3.50-2.90)

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 $\leq 5\%$. 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	3359	 7% 76% 18% ..
1	AS	3359	 11% 76% 18% ..
2	3	121	 % 93% 7%
2	AT	121	 5% 93% 7%
3	4	158	 2% 84% 16% .

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Mol	Chain	Length	Quality of chain
3	AU	158	9% 84% 16%
4	AW	254	20% 97% ..
4	j	254	9% 98% .
5	AX	389	6% 99% ..
5	k	389	5% 99% .
6	AY	363	35% 99% ..
6	l	363	14% 99% ..
7	AZ	298	37% 97% ..
7	m	298	26% 99% .
8	BA	176	11% 87% 13%
8	n	176	13% 89% . 11%
9	BB	241	10% 97% .
9	o	241	5% 95% . ..
10	BC	262	32% 87% . 11%
10	p	262	18% 90% . 9%
11	BD	191	20% 99% .
11	q	191	6% 99% . ..
12	BE	220	10% 94% 5%
12	r	220	14% 94% . 5%
13	BF	174	22% 97% . ..
13	s	174	20% 97% . ..
14	BG	202	29% 98% . ..
14	t	202	14% 99% .
15	BH	131	11% 98% . ..
15	u	131	4% 99% .

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Mol	Chain	Length	Quality of chain
16	BI	204	34% 99%
16	v	204	7% 99%
17	BJ	200	12% 100%
17	w	200	4% 100%
18	BK	185	16% 94% 5%
18	x	185	10% 94% 6%
19	BL	186	19% 99% .
19	y	186	16% 99% .
20	BM	190	14% 92% 6%
20	z	190	16% 94% 6%
21	0	172	5% 98% ..
21	BN	172	6% 99% .
22	2	160	11% 99% .
22	BO	160	16% 99% ..
23	5	124	22% 82% 17%
23	BP	124	25% 77% 5% 18%
24	6	137	9% 96% .
24	BQ	137	12% 96% .
25	7	155	10% 74% 24%
25	BR	155	12% 62% 37%
26	8	142	10% 83% 15%
26	BS	142	18% 84% 16%
27	9	127	18% 98% ..
27	BT	127	28% 98% ..
28	AA	136	21% 99% .

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Mol	Chain	Length	Quality of chain
28	BU	136	42% 99%
29	AB	149	7% 99%
29	BV	149	30% 99%
30	AC	63	27% 90% 6%
30	BW	63	43% 97%
31	AD	106	5% 91% 9%
31	BX	106	15% 91% 9%
32	AE	112	7% 96%
32	BY	112	16% 96%
33	AF	131	14% 95% 5%
33	BZ	131	27% 95% 5%
34	AG	107	6% 98%
34	CA	107	7% 99%
35	AH	122	23% 90% 8%
35	CB	122	37% 92% 8%
36	AI	120	15% 99%
36	CC	120	42% 97%
37	AJ	99	3% 96%
37	CD	99	31% 98%
38	AK	90	13% 96%
38	CE	90	29% 96%
39	AL	78	22% 99%
39	CF	78	47% 99%
40	AM	51	10% 96%
40	CG	51	25% 96%

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Mol	Chain	Length	Quality of chain
41	AN	52	48% 100%
41	CH	52	77% 90% 8%
42	AO	25	20% 92% 8%
42	CI	25	12% 92%
43	AP	106	16% 97%
43	CJ	106	18% 96%
44	AQ	92	12% 99%
44	CK	92	14% 99%
45	CL	267	27% 44% 55%
45	i	267	19% 43% 55%
46	B	1787	14% 71% 26%
46	CM	1787	9% 71% 27%
47	C	261	23% 79% 20%
47	CN	261	18% 79% 20%
48	CO	256	21% 83% 16%
48	D	256	11% 83% 16%
49	CP	249	11% 86% 13%
49	E	249	27% 87% 13%
50	CQ	251	14% 87% 11%
50	F	251	28% 88% 11%
51	CR	262	24% 99%
51	G	262	34% 98%
52	CS	225	29% 90% 8%
52	H	225	22% 91% 8%
53	CT	236	26% 99%

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Mol	Chain	Length	Quality of chain
53	I	236	20% 94%
54	CU	186	27% 97%
54	J	186	37% 99%
55	CV	206	36% 99%
55	K	206	28% 98%
56	CW	189	38% 94% 6%
56	L	189	52% 94% 6%
57	CX	118	13% 80% 20%
57	M	118	30% 80% 20%
58	CY	155	13% 90% 9%
58	N	155	16% 92% 7%
59	DA	151	15% 99%
59	P	151	18% 99%
60	DB	132	20% 95%
60	Q	132	13% 94%
61	DC	142	26% 90% 8%
61	R	142	21% 88% 9%
62	DD	142	25% 98%
62	S	142	37% 96%
63	DE	137	34% 91% 9%
63	T	137	33% 88% 9%
64	DF	145	26% 95%
64	U	145	17% 98%
65	DG	145	28% 97%
65	V	145	18% 97%

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Mol	Chain	Length	Quality of chain
66	DH	119	12% 79% 18%
66	W	119	31% 83% 14%
67	DI	87	13% 99%
67	X	87	15% 100%
68	DJ	130	14% 98%
68	Y	130	25% 99%
69	DK	145	8% 97%
69	Z	145	25% 99%
70	DL	135	26% 98%
70	a	135	36% 99%
71	DM	105	21% 67% 32%
71	b	105	14% 69% 31%
72	DN	119	28% 82% 18%
72	c	119	21% 81% 18%
73	DO	82	28% 99%
73	d	82	21% 98%
74	DP	67	21% 91% 9%
74	e	67	36% 93% 7%
75	DQ	56	21% 95%
75	f	56	18% 96%
76	DR	63	30% 87% 5% 8%
76	g	63	41% 92% 5%
77	DS	193	25% 33% 64%
77	h	193	19% 34% 64%
78	AR	317	37% 97%

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Mol	Chain	Length	Quality of chain
78	DT	317	
79	CZ	143	
79	O	143	
80	P0	312	
80	p0	312	
81	12	165	
82	L1	217	
82	11	217	

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
84	MG	1	3586	-	-	-	X
84	MG	1	3758	-	-	-	X
84	MG	AD	201	-	-	-	X
84	MG	AS	3458	-	-	-	X
84	MG	AS	3501	-	-	-	X
84	MG	AS	3503	-	-	-	X
84	MG	AS	3533	-	-	-	X
84	MG	AS	3622	-	-	-	X
84	MG	AS	3661	-	-	-	X
84	MG	AT	210	-	-	-	X
84	MG	B	1803	-	-	-	X
84	MG	CL	302	-	-	-	X
84	MG	CM	1828	-	-	-	X

2 Entry composition [i](#)

There are 86 unique types of molecules in this entry. The entry contains 408874 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.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	1	3216	Total	C	N	O	P	0	0	0
			68751	30713	12360	22462	3216			
1	AS	3222	Total	C	N	O	P	0	0	0
			68877	30769	12381	22505	3222			

- Molecule 2 is a RNA chain called 5S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
2	3	121	Total	C	N	O	P	0	0	0
			2579	1153	463	842	121			
2	AT	121	Total	C	N	O	P	0	0	0
			2579	1153	463	842	121			

- Molecule 3 is a RNA chain called 5.8S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
3	4	157	Total	C	N	O	P	0	0	0
			3333	1491	583	1102	157			
3	AU	158	Total	C	N	O	P	0	0	0
			3353	1500	585	1110	158			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	j	249	Total	C	N	O	S	0	0	0
			1888	1180	376	330	2			
4	AW	249	Total	C	N	O	S	0	0	0
			1888	1180	376	330	2			

- 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	1	0
			3084	1955	584	538	7			
5	AX	386	Total	C	N	O	S	0	0	0
			3077	1950	582	538	7			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	l	361	Total	C	N	O	S	0	0	0
			2751	1729	529	490	3			
6	AY	361	Total	C	N	O	S	0	0	0
			2751	1729	529	490	3			

- Molecule 7 is a protein called Uncharacterized protein CaJ7.0206.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	m	296	Total	C	N	O	S	0	0	0
			2426	1544	422	458	2			
7	AZ	292	Total	C	N	O	S	0	0	0
			2394	1526	416	450	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	n	157	Total	C	N	O	S	0	0	0
			1242	796	226	219	1			
8	BA	153	Total	C	N	O		0	0	0
			1210	777	221	212				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
9	o	231	Total	C	N	O	S	0	0	0
			1861	1193	342	325	1			
9	BB	234	Total	C	N	O	S	0	0	0
			1885	1208	345	331	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	p	238	Total	C	N	O	S	0	0	0
			1839	1175	327	334	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
10	BC	233	Total 1805	C 1156	N 321	O 325	S 3	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
11	q	190	Total 1519	C 958	N 276	O 281	S 4	0	0	0
11	BD	190	Total 1519	C 958	N 276	O 281	S 4	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
12	r	208	Total 1689	C 1069	N 322	O 291	S 7	0	0	0
12	BE	208	Total 1689	C 1069	N 322	O 291	S 7	0	0	0

- Molecule 13 is a protein called 60S ribosomal protein L11-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
13	s	171	Total 1371	C 857	N 260	O 250	S 4	0	0	0
13	BF	171	Total 1371	C 857	N 260	O 250	S 4	0	0	0

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
14	t	200	Total 1610	C 1009	N 318	O 283	0	0	0
14	BG	200	Total 1610	C 1009	N 318	O 283	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
15	u	130	Total 1029	C 660	N 193	O 175	S 1	0	0	0
15	BH	130	Total 1029	C 660	N 193	O 175	S 1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
16	v	203	Total	C	N	O	S	0	0	0
			1713	1075	356	280	2			
16	BI	203	Total	C	N	O	S	0	0	0
			1713	1075	356	280	2			

- Molecule 17 is a protein called Ribosomal protein L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
17	w	199	Total	C	N	O	S	0	0	0
			1590	1025	294	269	2			
17	BJ	199	Total	C	N	O	S	0	0	0
			1590	1025	294	269	2			

- Molecule 18 is a protein called Ribosomal protein L22.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
18	x	173	Total	C	N	O	0	0	0
			1387	856	280	251			
18	BK	176	Total	C	N	O	0	0	0
			1406	868	284	254			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
19	y	185	Total	C	N	O	0	0	0
			1458	916	297	245			
19	BL	185	Total	C	N	O	0	0	0
			1458	916	297	245			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
20	z	179	Total	C	N	O	S	0	0	0
			1457	901	310	243	3			
20	BM	179	Total	C	N	O	S	0	0	0
			1457	901	310	243	3			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
21	0	170	Total	C	N	O	S	0	0	0
			1423	921	258	241	3			
21	BN	170	Total	C	N	O	S	0	0	0
			1423	921	258	241	3			

- 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
			1262	798	241	221	2			
22	BO	159	Total	C	N	O	S	0	0	0
			1262	798	241	221	2			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
23	5	103	Total	C	N	O	0	0	0
			831	539	138	154			
23	BP	102	Total	C	N	O	0	1	0
			837	546	138	153			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	6	131	Total	C	N	O	S	0	0	0
			977	615	183	171	8			
24	BQ	131	Total	C	N	O	S	0	0	0
			977	615	183	171	8			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	7	118	Total	C	N	O	S	0	0	0
			945	591	192	161	1			
25	BR	98	Total	C	N	O	S	0	0	0
			801	501	162	137	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	8	120	Total	C	N	O	S	0	0	0
			965	616	173	175	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
26	BS	119	Total	C	N	O	S	0	0	0
			960	613	172	174	1			

- Molecule 27 is a protein called Ribosomal protein L24.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
27	9	126	Total	C	N	O	0	0	0
			989	618	190	181			
27	BT	126	Total	C	N	O	0	0	0
			989	618	190	181			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	AA	135	Total	C	N	O	S	0	0	0
			1087	705	197	183	2			
28	BU	135	Total	C	N	O	S	0	0	0
			1087	705	197	183	2			

- 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
			1170	741	231	197	1			
29	BV	148	Total	C	N	O	S	0	0	0
			1170	741	231	197	1			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
30	AC	59	Total	C	N	O	0	0	0
			473	295	101	77			
30	BW	61	Total	C	N	O	0	0	0
			488	304	104	80			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	AD	96	Total	C	N	O	S	0	0	0
			729	469	121	137	2			
31	BX	96	Total	C	N	O	S	0	0	0
			729	469	121	137	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	AE	110	Total	C	N	O	S	0	0	0
			894	565	168	159	2			
32	BY	110	Total	C	N	O	S	0	0	0
			894	565	168	159	2			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	AF	124	Total	C	N	O	S	0	0	0
			1000	638	194	167	1			
33	BZ	124	Total	C	N	O	S	0	0	0
			1004	641	195	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
			847	543	161	142	1			
34	CA	106	Total	C	N	O	S	0	0	0
			847	543	161	142	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	AH	112	Total	C	N	O	S	0	0	0
			887	547	182	154	4			
35	CB	112	Total	C	N	O	S	0	0	0
			887	547	182	154	4			

- Molecule 36 is a protein called Ribosomal protein L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
36	AI	120	Total	C	N	O	S	0	0	0
			992	629	195	167	1			
36	CC	118	Total	C	N	O		0	0	0
			979	621	193	165				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	AJ	95	Total	C	N	O	S	0	0	0
			736	459	148	128	1			
37	CD	97	Total	C	N	O	S	0	0	0
			758	471	156	130	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
38	AK	86	Total	C	N	O	S	0	0	0
			677	413	148	110	6			
38	CE	86	Total	C	N	O	S	0	0	0
			677	413	148	110	6			

- 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
			617	393	115	109			
39	CF	77	Total	C	N	O	0	0	0
			617	393	115	109			

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

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
40	AM	50	Total	C	N	O	0	0	0
			438	275	97	66			
40	CG	50	Total	C	N	O	0	0	0
			438	275	97	66			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
41	AN	52	Total	C	N	O	S	0	0	0
			419	260	86	67	6			
41	CH	51	Total	C	N	O	S	0	0	0
			411	255	85	66	5			

- Molecule 42 is a protein called 60S ribosomal protein L41.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	AO	25	Total	C	N	O	S	0	0	0
			236	144	63	28	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
42	CI	24	Total	C	N	O	S	0	0	0
			227	138	61	27	1			

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
43	AP	103	Total	C	N	O	S	0	0	0
			828	521	165	137	5			
43	CJ	103	Total	C	N	O	S	0	0	0
			828	521	165	137	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
			698	430	140	124	4			
44	CK	91	Total	C	N	O	S	0	0	0
			698	430	140	124	4			

- Molecule 45 is a protein called 60S ribosomal protein CAALFM_C304810CA.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
45	i	121	Total	C	N	O	0	0	0
			931	563	166	202			
45	CL	121	Total	C	N	O	0	0	0
			931	563	166	202			

- Molecule 46 is a RNA chain called 18S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	B	1756	Total	C	N	O	P	0	0	0
			37425	16730	6631	12308	1756			
46	CM	1765	Total	C	N	O	P	0	0	0
			37621	16818	6670	12368	1765			

- Molecule 47 is a protein called 40S ribosomal protein S0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
47	C	208	Total	C	N	O	S	0	0	0
			1627	1041	284	297	5			
47	CN	208	Total	C	N	O	S	0	0	0
			1627	1041	284	297	5			

- Molecule 48 is a protein called 40S ribosomal protein S1.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
48	D	214	Total	C	N	O	S	0	0	0
			1724	1094	313	313	4			
48	CO	214	Total	C	N	O	S	0	0	0
			1724	1094	313	313	4			

- Molecule 49 is a protein called Ribosomal protein S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
49	E	217	Total	C	N	O	S	0	0	0
			1629	1039	289	296	5			
49	CP	217	Total	C	N	O	S	0	0	0
			1629	1039	289	296	5			

- Molecule 50 is a protein called Ribosomal protein S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
50	F	223	Total	C	N	O	S	0	0	0
			1707	1087	311	305	4			
50	CQ	223	Total	C	N	O	S	0	0	0
			1707	1087	311	305	4			

- Molecule 51 is a protein called 40S ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
51	G	259	Total	C	N	O	S	0	0	0
			2051	1304	385	357	5			
51	CR	260	Total	C	N	O	S	0	0	0
			2055	1306	386	358	5			

- Molecule 52 is a protein called Ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
52	H	206	Total	C	N	O	S	0	0	0
			1614	1008	301	301	4			
52	CS	206	Total	C	N	O	S	0	0	0
			1614	1008	301	301	4			

- Molecule 53 is a protein called 40S ribosomal protein S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
53	I	226	Total	C	N	O	S	0	0	0
			1820	1133	351	330	6			
53	CT	236	Total	C	N	O	S	0	0	0
			1904	1184	369	345	6			

- Molecule 54 is a protein called 40S ribosomal protein S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
54	J	185	Total	C	N	O	S	0	0	0
			1491	953	269	269				
54	CU	183	Total	C	N	O	S	0	0	0
			1475	944	265	266				

- Molecule 55 is a protein called 40S ribosomal protein S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
55	K	203	Total	C	N	O	S	0	0	0
			1579	973	322	283	1			
55	CV	203	Total	C	N	O	S	0	0	0
			1579	973	322	283	1			

- Molecule 56 is a protein called Ribosomal protein S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
56	L	178	Total	C	N	O	S	0	0	0
			1453	918	286	248	1			
56	CW	178	Total	C	N	O	S	0	0	0
			1453	918	286	248	1			

- Molecule 57 is a protein called 40S ribosomal protein S10-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
57	M	94	Total	C	N	O	S	0	0	0
			785	508	131	146				
57	CX	94	Total	C	N	O	S	0	0	0
			791	515	131	144	1			

- Molecule 58 is a protein called 40S ribosomal protein S11A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	N	144	Total	C	N	O	S	0	0	0
			1150	734	215	198	3			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
58	CY	141	Total	C	N	O	S	0	0	0
			1129	722	212	192	3			

- Molecule 59 is a protein called 40S ribosomal protein S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	P	150	Total	C	N	O	S	0	0	0
			1187	757	219	210	1			
59	DA	150	Total	C	N	O	S	0	0	0
			1187	757	219	210	1			

- Molecule 60 is a protein called 40S ribosomal protein S14-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
60	Q	127	Total	C	N	O	S	0	0	0
			942	579	186	174	3			
60	DB	127	Total	C	N	O	S	0	0	0
			942	579	186	174	3			

- Molecule 61 is a protein called 40S ribosomal protein S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
61	R	129	Total	C	N	O	S	0	0	0
			1018	649	185	177	7			
61	DC	130	Total	C	N	O	S	0	0	0
			1029	655	189	178	7			

- Molecule 62 is a protein called 40S ribosomal protein S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
62	S	140	Total	C	N	O	S	0	0	0
			1091	700	198	192	1			
62	DD	140	Total	C	N	O	S	0	0	0
			1091	700	198	192	1			

- Molecule 63 is a protein called 40S ribosomal protein S17-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
63	T	124	Total	C	N	O	S	0	0	0
			997	628	183	185	1			
63	DE	124	Total	C	N	O	S	0	0	0
			997	628	183	185	1			

- Molecule 64 is a protein called 40S ribosomal protein S18-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
64	U	144	Total 1187	C 744	N 233	O 207	S 3	0	0	0
64	DF	141	Total 1161	C 727	N 227	O 204	S 3	0	0	0

- Molecule 65 is a protein called 40S ribosomal protein S19-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
65	V	141	Total 1100	C 689	N 210	O 200	S 1	0	0	0
65	DG	141	Total 1100	C 689	N 210	O 200	S 1	0	0	0

- Molecule 66 is a protein called Ribosomal protein S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
66	W	102	Total 808	C 509	N 150	O 147	S 2	0	0	0
66	DH	97	Total 763	C 481	N 140	O 140	S 2	0	0	0

- Molecule 67 is a protein called 40S ribosomal protein S21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
67	X	87	Total 676	C 415	N 126	O 133	S 2	0	0	0
67	DI	87	Total 676	C 415	N 126	O 133	S 2	0	0	0

- Molecule 68 is a protein called 40S ribosomal protein S22-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
68	Y	129	Total 1032	C 655	N 191	O 183	S 3	0	0	0
68	DJ	129	Total 1032	C 655	N 191	O 183	S 3	0	0	0

- Molecule 69 is a protein called Ribosomal protein S23 (S12).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
69	Z	143	Total	C	N	O	S	0	0	0
			1110	701	219	188	2			
69	DK	143	Total	C	N	O	S	0	0	0
			1110	701	219	188	2			

- Molecule 70 is a protein called 40S ribosomal protein S24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
70	a	134	Total	C	N	O	S	0	0	0
			1086	677	218	191				
70	DL	132	Total	C	N	O	S	0	0	0
			1072	670	216	186				

- Molecule 71 is a protein called 40S ribosomal protein S25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
71	b	72	Total	C	N	O	S	0	0	0
			578	369	103	106				
71	DM	71	Total	C	N	O	S	0	0	0
			570	365	102	103				

- Molecule 72 is a protein called 40S ribosomal protein S26.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
72	c	98	Total	C	N	O	S	0	0	0
			779	482	163	128	6			
72	DN	98	Total	C	N	O	S	0	0	0
			779	482	163	128	6			

- Molecule 73 is a protein called 40S ribosomal protein S27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
73	d	81	Total	C	N	O	S	0	0	0
			614	383	110	114	7			
73	DO	81	Total	C	N	O	S	0	0	0
			614	383	110	114	7			

- Molecule 74 is a protein called 40S ribosomal protein S28-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	e	62	Total	C	N	O	S	0	0	0
			487	299	98	88	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
74	DP	61	Total	C	N	O	S	0	0	0
			476	293	94	87	2			

- Molecule 75 is a protein called 40S ribosomal protein S29A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
75	f	55	Total	C	N	O	S	0	0	0
			454	281	94	75	4			
75	DQ	54	Total	C	N	O	S	0	0	0
			449	278	93	74	4			

- Molecule 76 is a protein called 40S ribosomal protein S30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
76	g	60	Total	C	N	O	S	0	0	0
			474	297	96	79	2			
76	DR	58	Total	C	N	O	S	0	0	0
			461	289	93	77	2			

- Molecule 77 is a protein called Ubiquitin-40S ribosomal protein S31 fusion protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
77	h	70	Total	C	N	O	S	0	0	0
			574	362	113	93	6			
77	DS	70	Total	C	N	O	S	0	0	0
			574	362	113	93	6			

- Molecule 78 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
78	AR	311	Total	C	N	O	S	0	0	0
			2398	1519	412	462	5			
78	DT	311	Total	C	N	O	S	0	0	0
			2398	1519	412	462	5			

- Molecule 79 is a protein called 40S ribosomal protein S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
79	CZ	119	Total	C	N	O	S	0	0	0
			913	566	163	179	5			
79	O	39	Total	C	N	O	S	0	0	0
			293	180	50	60	3			

- Molecule 80 is a protein called 60S acidic ribosomal protein P0.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
80	P0	107	Total	C	N	O	S	0	0	0
			845	542	150	150	3			
80	p0	61	Total	C	N	O	S	0	0	0
			487	305	94	85	3			

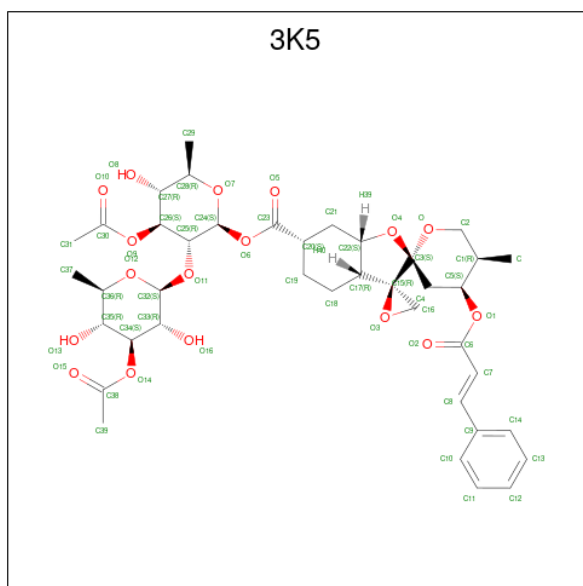
- Molecule 81 is a protein called 60S ribosomal protein L12-A.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
81	12	62	Total	C	N	O	S	0	0	0
			472	293	83	94	2			

- Molecule 82 is a protein called Ribosomal protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
82	L1	217	Total	C	N	O	S	0	0	0
			1711	1096	294	312	9			
82	11	211	Total	C	N	O	S	0	0	0
			1661	1064	287	302	8			

- Molecule 83 is 3-O-acetyl-2-O-(3-O-acetyl-6-deoxy-beta-D-glucopyranosyl)-6-deoxy-1-O-
 {[(2R,2'S,3a'R,4''S,5''R,6'S,7a'S)-5''-methyl-4''-
 {[(2E)-3-phenylprop-2-enoyl]oxy}decahy
 drodispiro[oxirane-2,3'-[1]benzofuran-2',2''-pyran]-6'-yl]carbonyl}-beta-D-glucopyranose
 (three-letter code: 3K5) (formula: C₄₀H₅₂O₁₇).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
83	1	1	Total	C	O	0	0
			57	40	17		
83	AS	1	Total	C	O	0	0
			57	40	17		

- Molecule 84 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	1	636	Total	Mg	0	0
			636	636		
84	3	19	Total	Mg	0	0
			19	19		
84	4	15	Total	Mg	0	0
			15	15		
84	j	3	Total	Mg	0	0
			3	3		
84	k	7	Total	Mg	0	0
			7	7		
84	o	6	Total	Mg	0	0
			6	6		
84	r	3	Total	Mg	0	0
			3	3		
84	s	1	Total	Mg	0	0
			1	1		
84	u	2	Total	Mg	0	0
			2	2		
84	v	4	Total	Mg	0	0
			4	4		
84	w	4	Total	Mg	0	0
			4	4		
84	x	3	Total	Mg	0	0
			3	3		
84	y	3	Total	Mg	0	0
			3	3		
84	z	1	Total	Mg	0	0
			1	1		
84	0	3	Total	Mg	0	0
			3	3		
84	2	2	Total	Mg	0	0
			2	2		
84	6	3	Total	Mg	0	0
			3	3		
84	8	1	Total	Mg	0	0
			1	1		

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	9	1	Total Mg 1 1	0	0
84	AA	1	Total Mg 1 1	0	0
84	AB	2	Total Mg 2 2	0	0
84	AC	2	Total Mg 2 2	0	0
84	AD	2	Total Mg 2 2	0	0
84	AE	2	Total Mg 2 2	0	0
84	AF	2	Total Mg 2 2	0	0
84	AG	2	Total Mg 2 2	0	0
84	AH	1	Total Mg 1 1	0	0
84	AI	1	Total Mg 1 1	0	0
84	AJ	1	Total Mg 1 1	0	0
84	AM	1	Total Mg 1 1	0	0
84	AO	1	Total Mg 1 1	0	0
84	AP	2	Total Mg 2 2	0	0
84	i	1	Total Mg 1 1	0	0
84	B	197	Total Mg 197 197	0	0
84	D	2	Total Mg 2 2	0	0
84	E	1	Total Mg 1 1	0	0
84	G	1	Total Mg 1 1	0	0
84	I	1	Total Mg 1 1	0	0
84	J	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	K	2	Total Mg 2 2	0	0
84	Q	2	Total Mg 2 2	0	0
84	R	1	Total Mg 1 1	0	0
84	U	1	Total Mg 1 1	0	0
84	Y	3	Total Mg 3 3	0	0
84	Z	3	Total Mg 3 3	0	0
84	a	1	Total Mg 1 1	0	0
84	c	1	Total Mg 1 1	0	0
84	f	1	Total Mg 1 1	0	0
84	g	1	Total Mg 1 1	0	0
84	AR	1	Total Mg 1 1	0	0
84	AS	433	Total Mg 433 433	0	0
84	AT	14	Total Mg 14 14	0	0
84	AU	9	Total Mg 9 9	0	0
84	AW	4	Total Mg 4 4	0	0
84	AX	1	Total Mg 1 1	0	0
84	AY	1	Total Mg 1 1	0	0
84	BB	6	Total Mg 6 6	0	0
84	BE	3	Total Mg 3 3	0	0
84	BF	1	Total Mg 1 1	0	0
84	BH	1	Total Mg 1 1	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
84	BI	1	Total Mg 1 1	0	0
84	BJ	4	Total Mg 4 4	0	0
84	BK	1	Total Mg 1 1	0	0
84	BN	3	Total Mg 3 3	0	0
84	BO	2	Total Mg 2 2	0	0
84	BS	2	Total Mg 2 2	0	0
84	BV	1	Total Mg 1 1	0	0
84	BZ	4	Total Mg 4 4	0	0
84	CA	2	Total Mg 2 2	0	0
84	CJ	1	Total Mg 1 1	0	0
84	CL	4	Total Mg 4 4	0	0
84	CM	183	Total Mg 183 183	0	0
84	CN	1	Total Mg 1 1	0	0
84	CO	1	Total Mg 1 1	0	0
84	CP	1	Total Mg 1 1	0	0
84	CQ	3	Total Mg 3 3	0	0
84	CW	2	Total Mg 2 2	0	0
84	CY	1	Total Mg 1 1	0	0
84	DA	1	Total Mg 1 1	0	0
84	DB	3	Total Mg 3 3	0	0
84	DG	2	Total Mg 2 2	0	0

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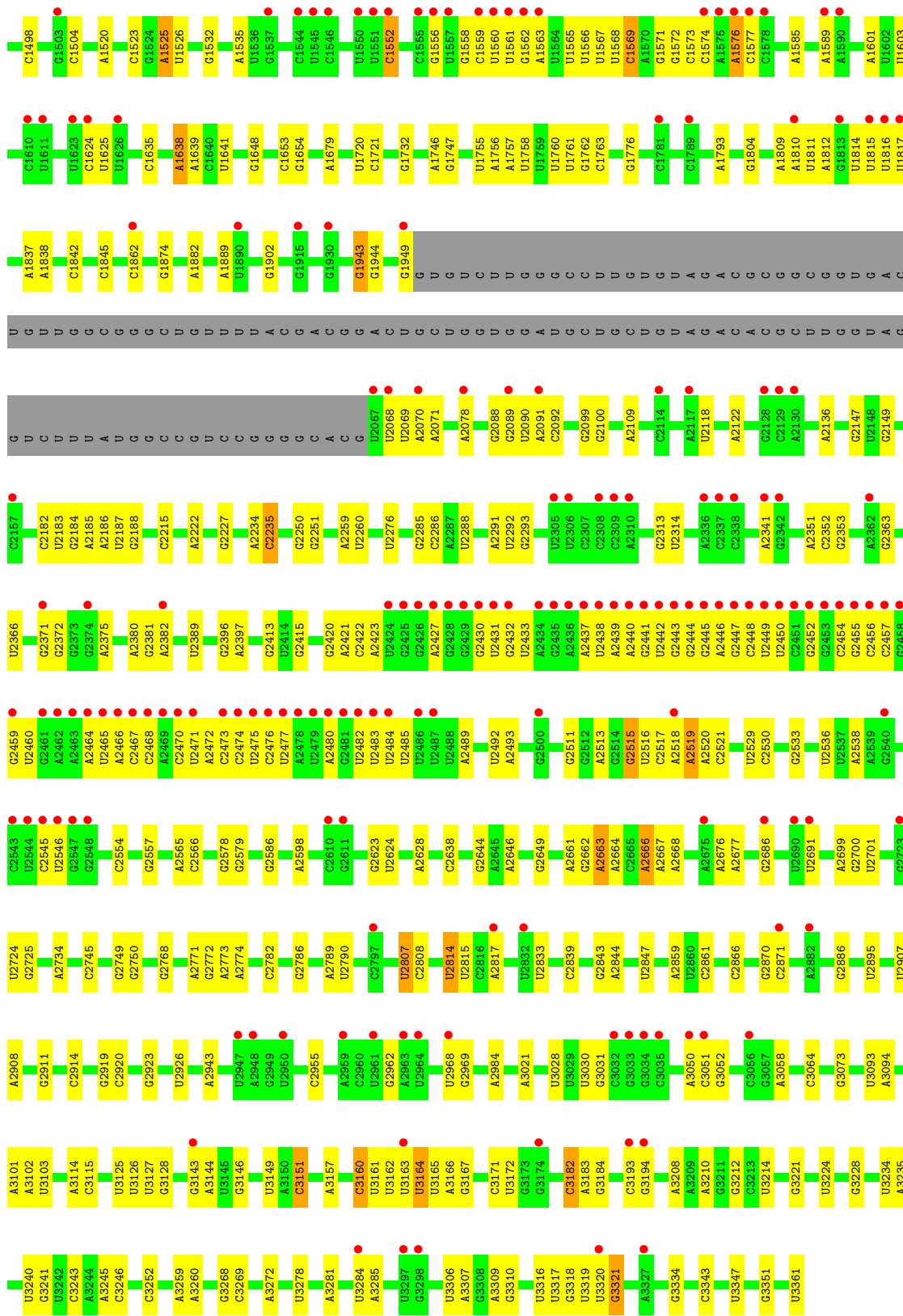
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
84	DJ	2	Total	Mg	0	0
			2	2		

- Molecule 85 is ZINC ION (three-letter code: ZN) (formula: Zn).

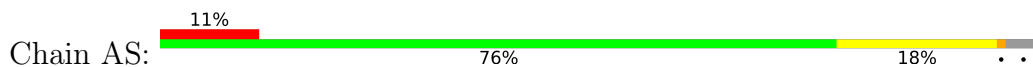
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	AH	1	Total	Zn	0	0
			1	1		
85	AK	1	Total	Zn	0	0
			1	1		
85	AN	1	Total	Zn	0	0
			1	1		
85	AP	1	Total	Zn	0	0
			1	1		
85	AQ	1	Total	Zn	0	0
			1	1		
85	c	1	Total	Zn	0	0
			1	1		
85	d	1	Total	Zn	0	0
			1	1		
85	f	1	Total	Zn	0	0
			1	1		
85	h	1	Total	Zn	0	0
			1	1		
85	CB	1	Total	Zn	0	0
			1	1		
85	CE	1	Total	Zn	0	0
			1	1		
85	CH	1	Total	Zn	0	0
			1	1		
85	CJ	1	Total	Zn	0	0
			1	1		
85	CK	1	Total	Zn	0	0
			1	1		
85	DN	1	Total	Zn	0	0
			1	1		
85	DO	1	Total	Zn	0	0
			1	1		
85	DQ	1	Total	Zn	0	0
			1	1		
85	DS	1	Total	Zn	0	0
			1	1		

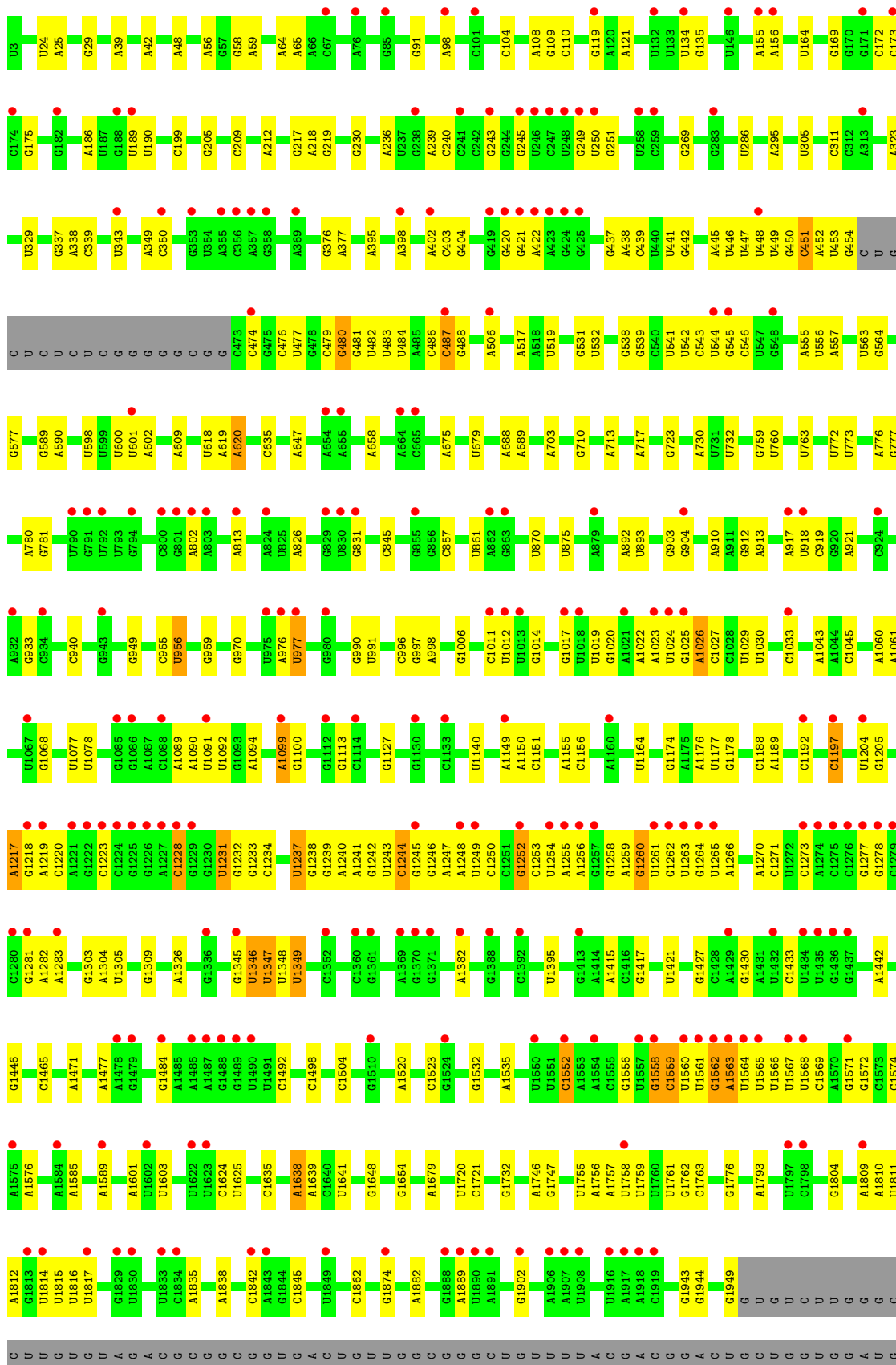
- Molecule 86 is water.

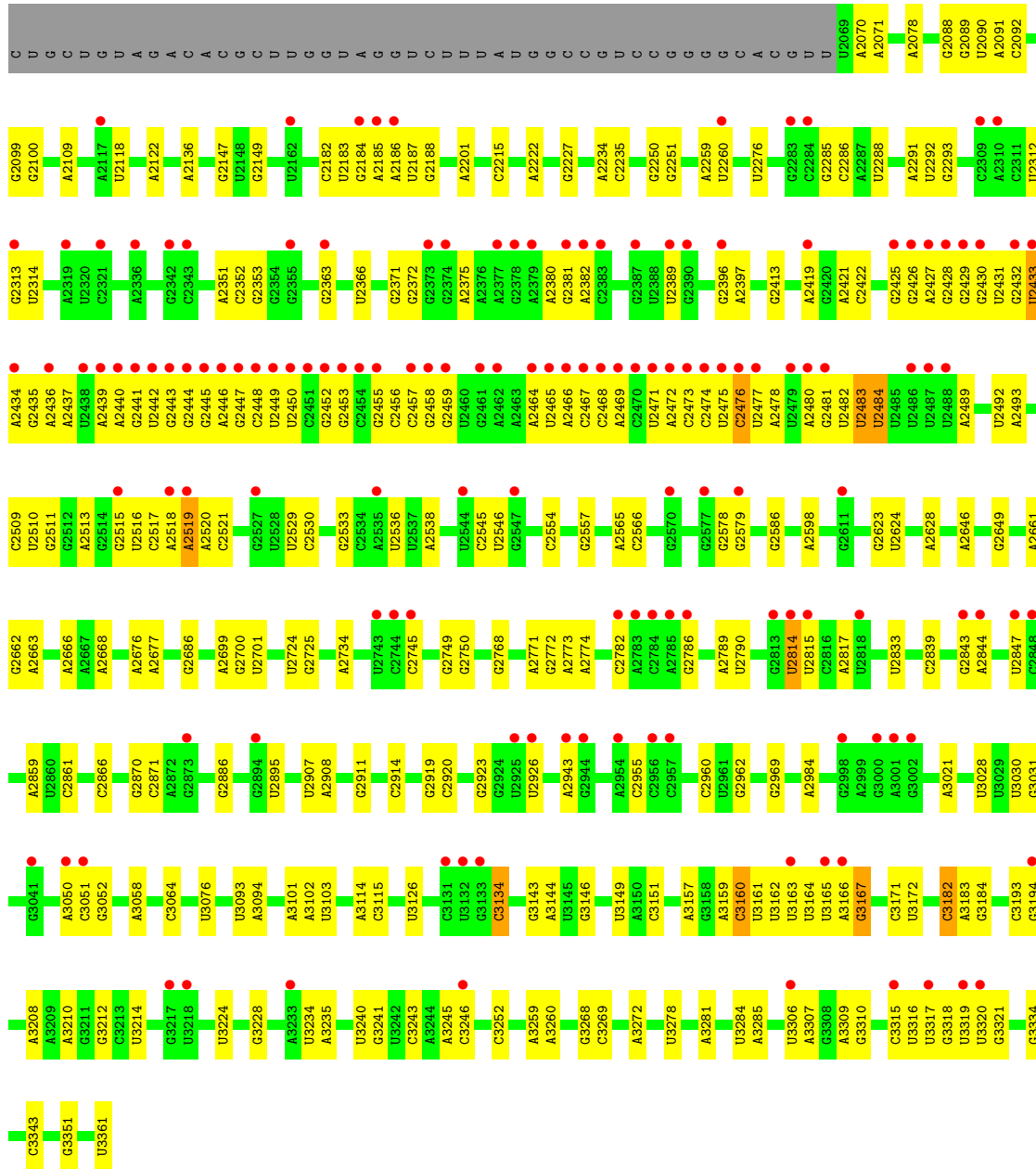
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
86	1	23	Total O 23 23	0	0
86	1	1	Total O 1 1	0	0
86	B	12	Total O 12 12	0	0
86	AS	22	Total O 22 22	0	0
86	BQ	2	Total O 2 2	0	0



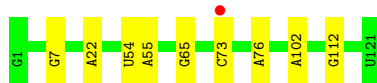
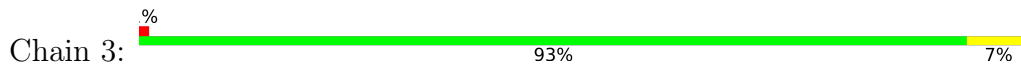
• Molecule 1: 25S



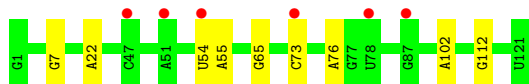




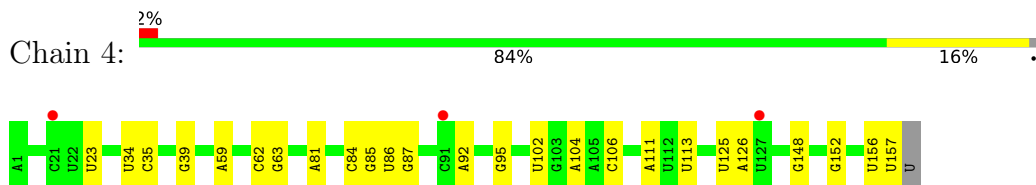
• Molecule 2: 5S



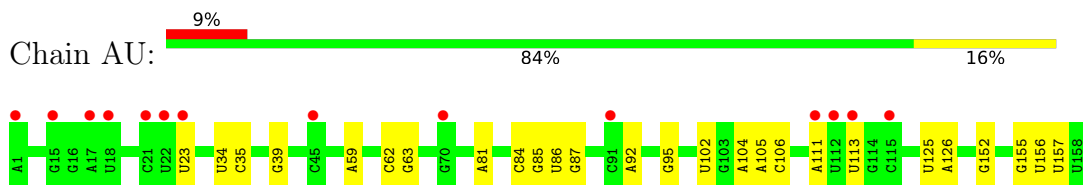
• Molecule 2: 5S



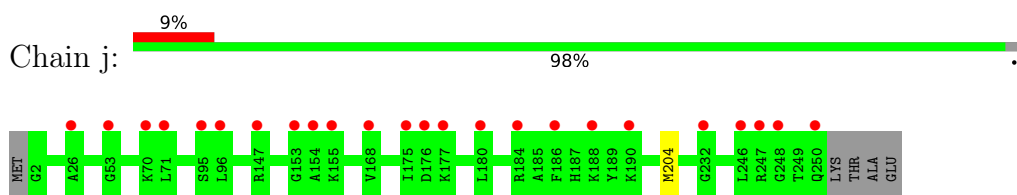
- Molecule 3: 5.8S



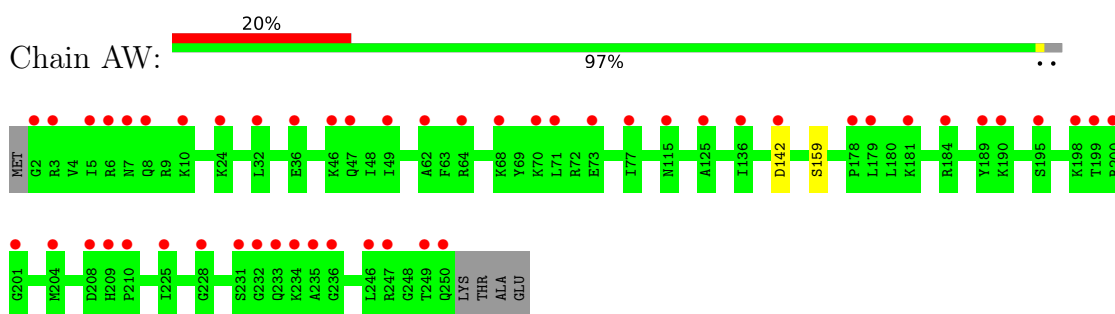
- Molecule 3: 5.8S



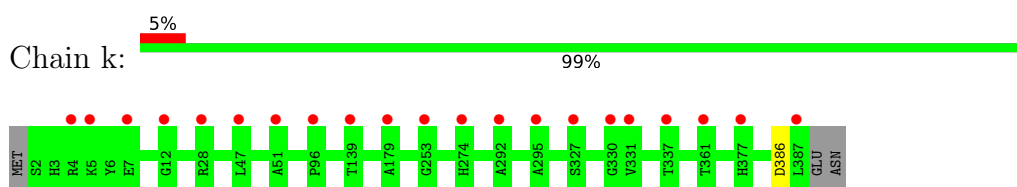
- Molecule 4: 60S ribosomal protein L2-B



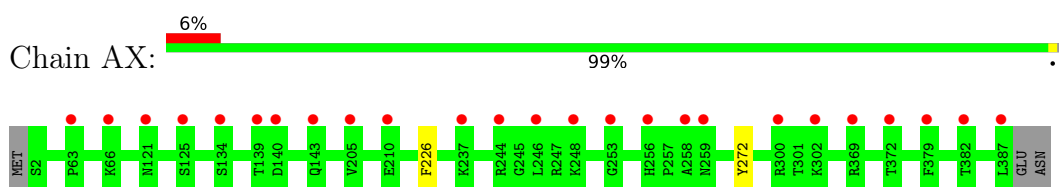
- Molecule 4: 60S ribosomal protein L2-B



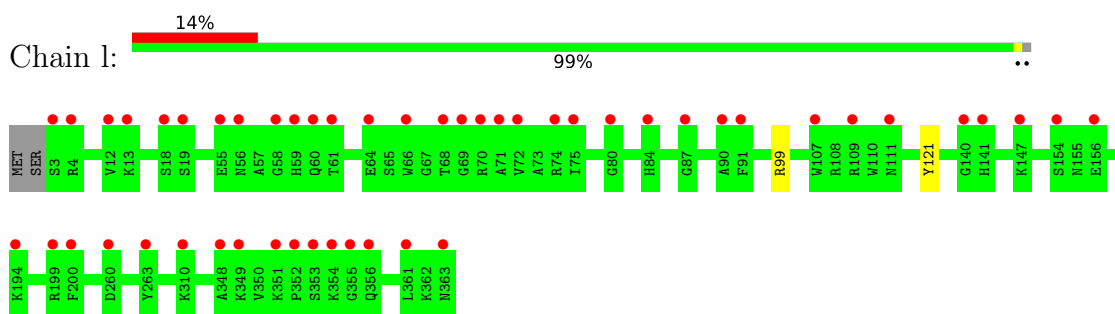
- Molecule 5: 60S ribosomal protein L3



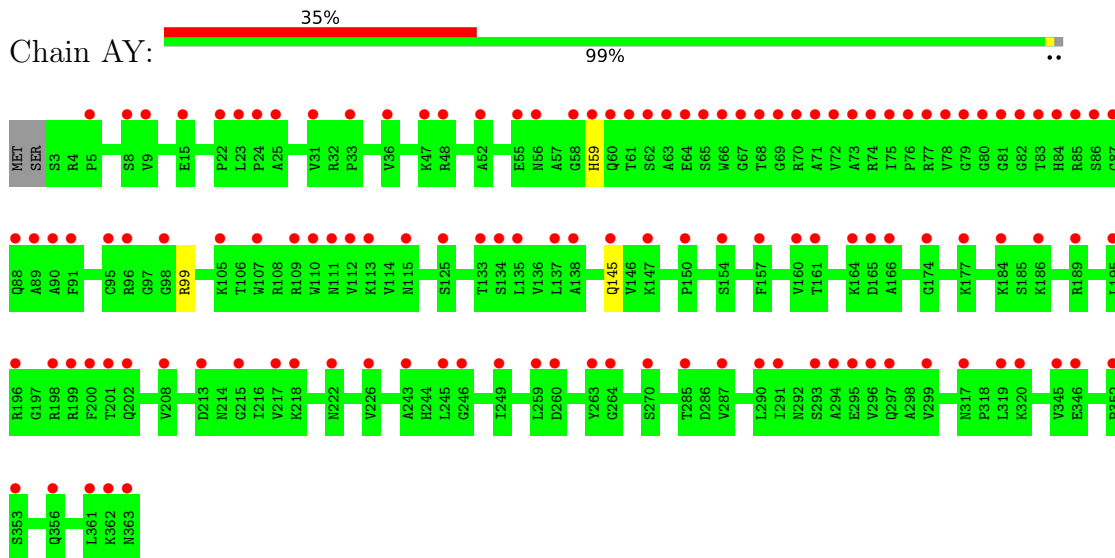
- Molecule 5: 60S ribosomal protein L3



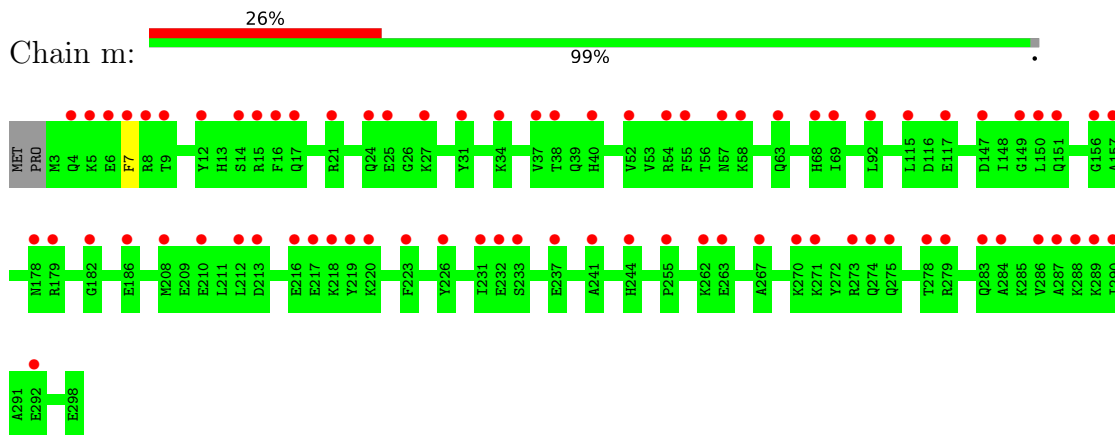
- Molecule 6: 60S ribosomal protein L4-B



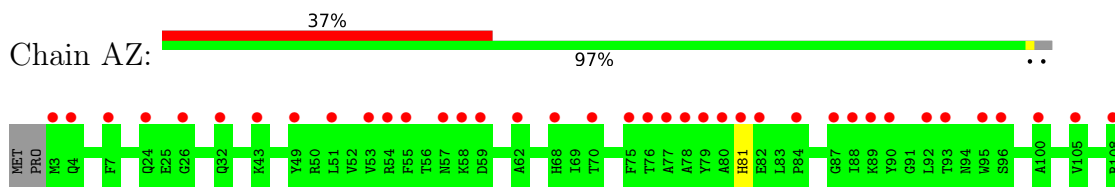
- Molecule 6: 60S ribosomal protein L4-B

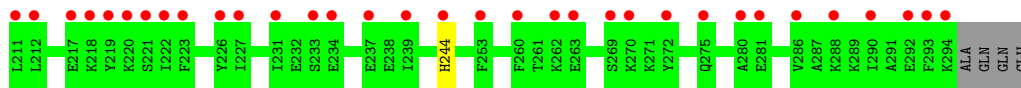
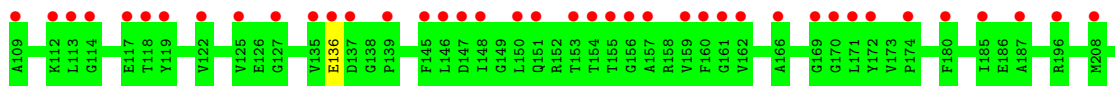


- Molecule 7: Uncharacterized protein CaJ7.0206

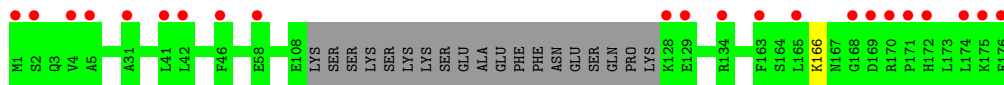
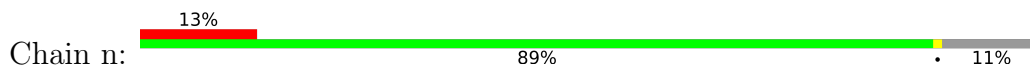


- Molecule 7: Uncharacterized protein CaJ7.0206

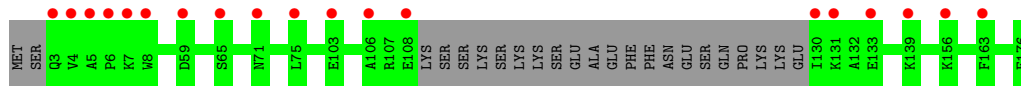
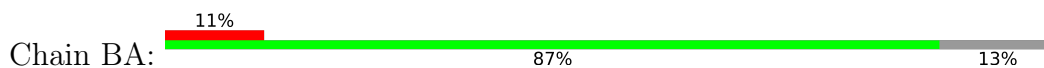




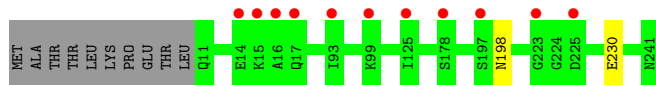
- Molecule 8: 60S ribosomal protein L6



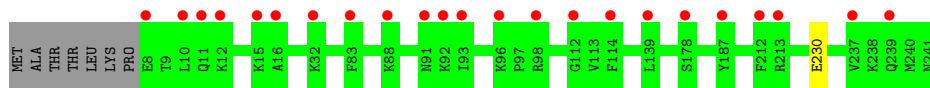
- Molecule 8: 60S ribosomal protein L6



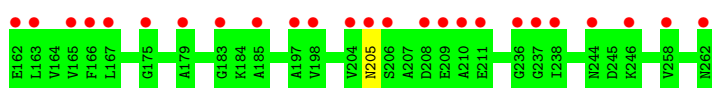
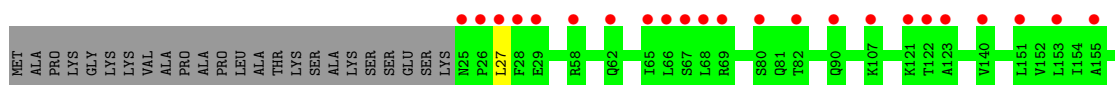
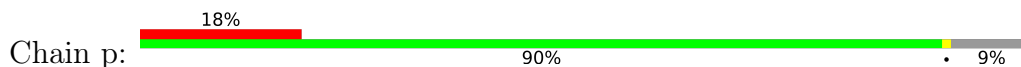
- Molecule 9: 60S ribosomal protein L7-A



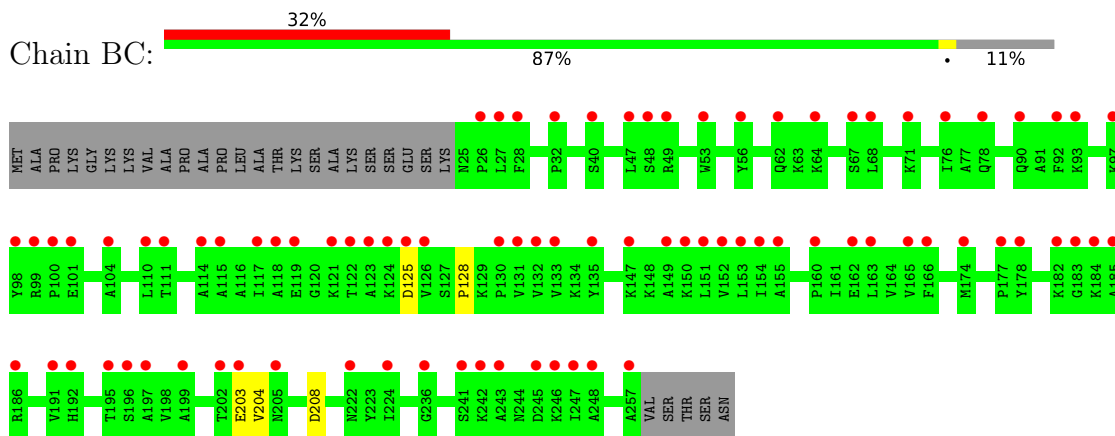
- Molecule 9: 60S ribosomal protein L7-A



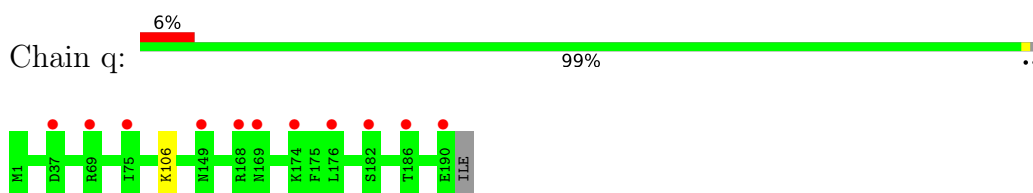
- Molecule 10: 60S ribosomal protein L8



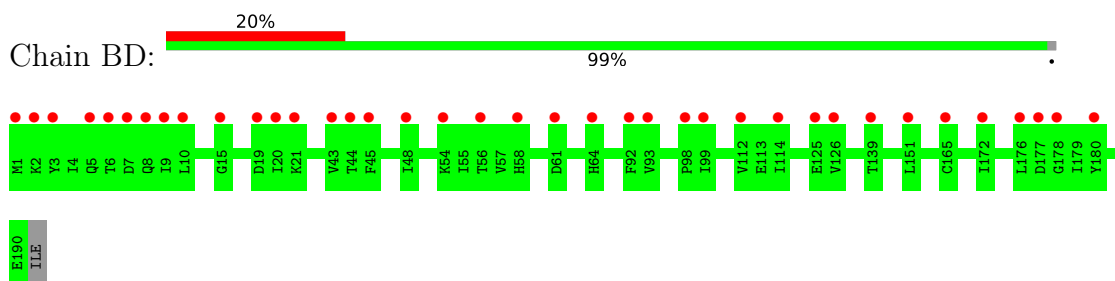
- Molecule 10: 60S ribosomal protein L8



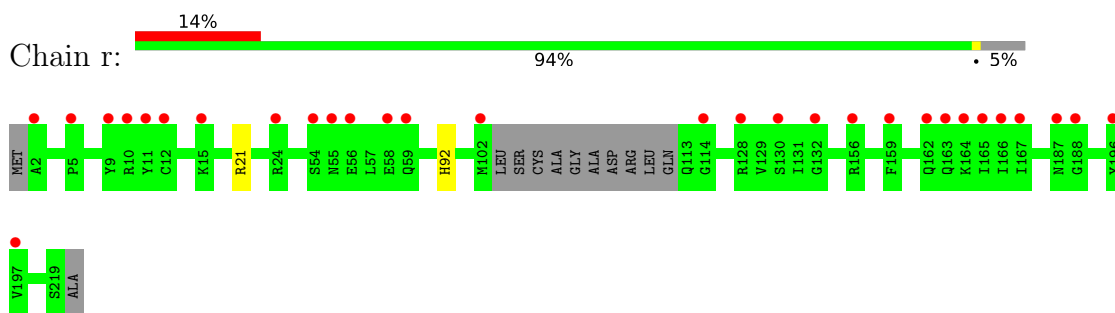
- Molecule 11: 60S ribosomal protein L9-B



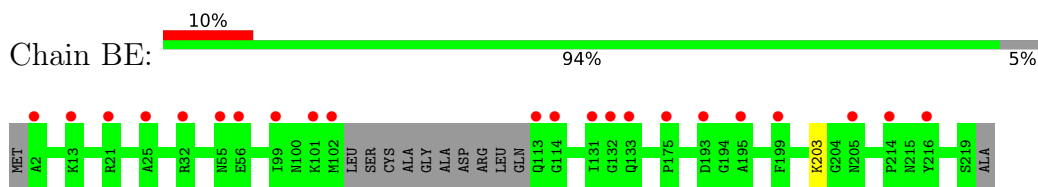
- Molecule 11: 60S ribosomal protein L9-B



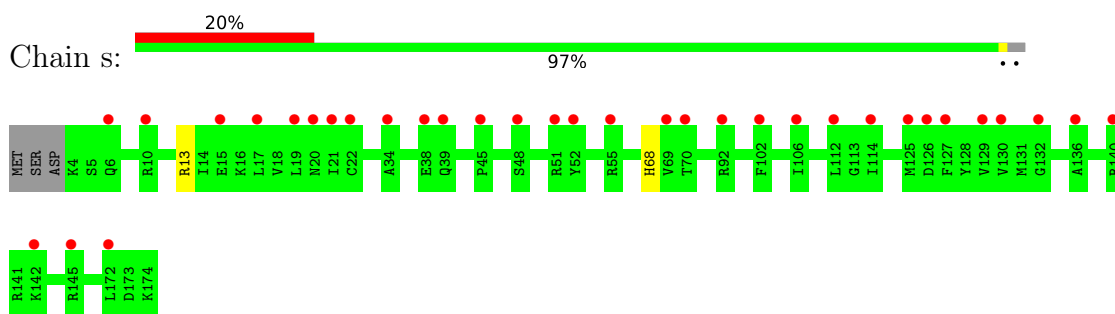
- Molecule 12: 60S ribosomal protein L10



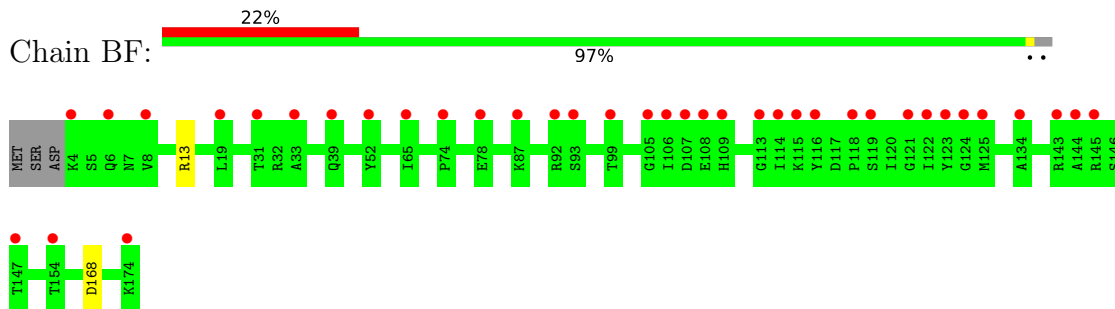
- Molecule 12: 60S ribosomal protein L10



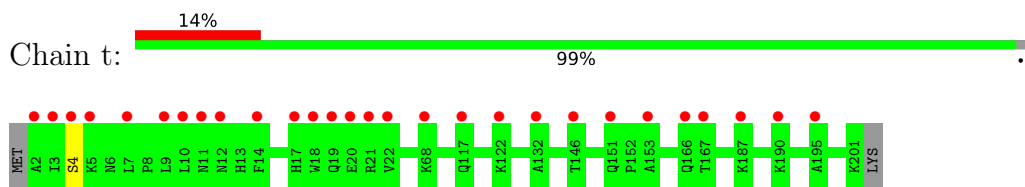
- Molecule 13: 60S ribosomal protein L11-B



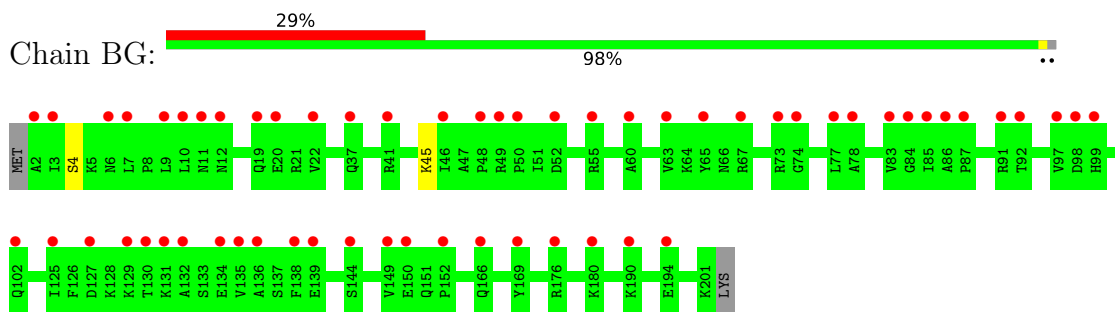
- Molecule 13: 60S ribosomal protein L11-B



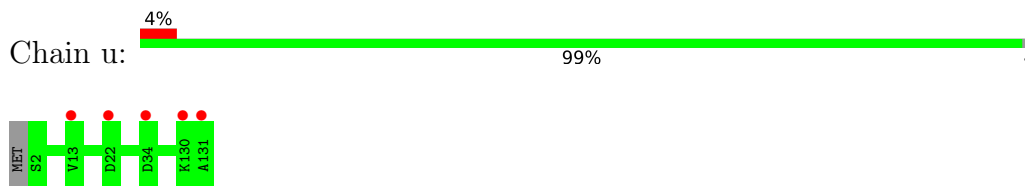
- Molecule 14: 60S ribosomal protein L13



- Molecule 14: 60S ribosomal protein L13

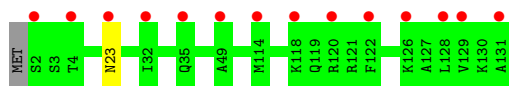


- Molecule 15: 60S ribosomal protein L14-B



- Molecule 15: 60S ribosomal protein L14-B

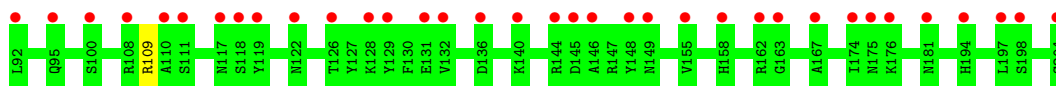
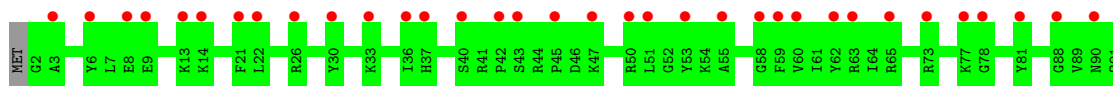




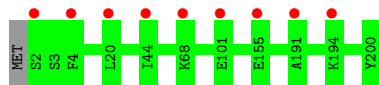
- Molecule 16: 60S ribosomal protein L15-A



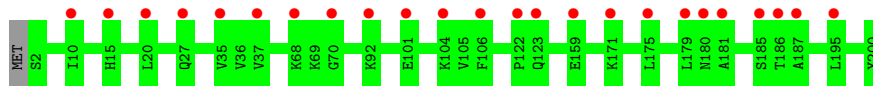
- Molecule 16: 60S ribosomal protein L15-A



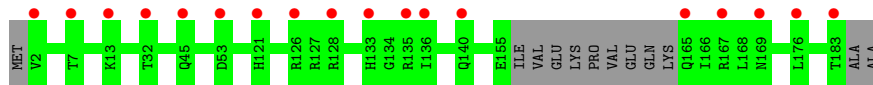
- Molecule 17: Ribosomal protein L13



- Molecule 17: Ribosomal protein L13

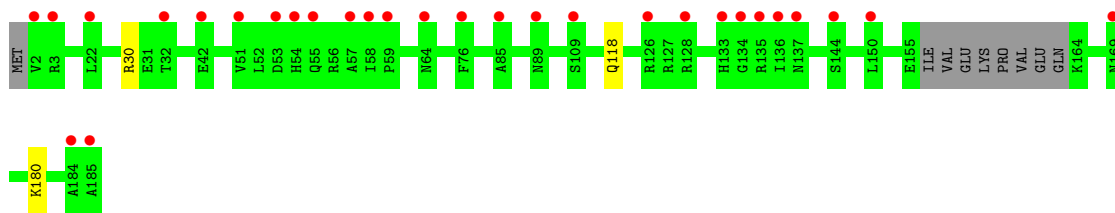


- Molecule 18: Ribosomal protein L22

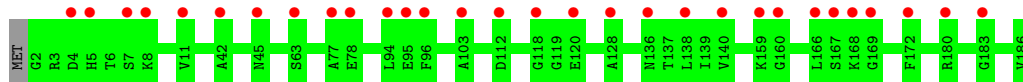


- Molecule 18: Ribosomal protein L22

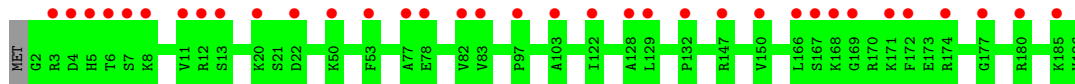




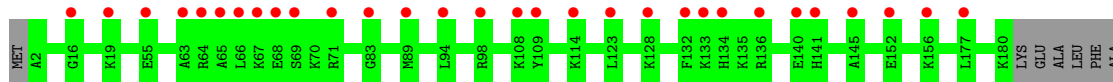
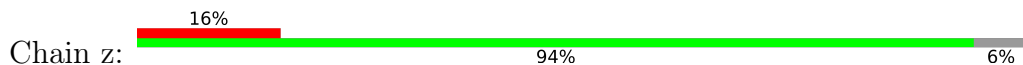
- Molecule 19: 60S ribosomal protein L18-A



- Molecule 19: 60S ribosomal protein L18-A

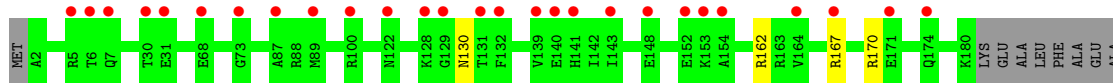


- Molecule 20: 60S ribosomal protein L19-A



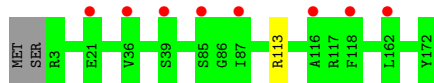
GLU
ALA
ALA
ASN

- Molecule 20: 60S ribosomal protein L19-A

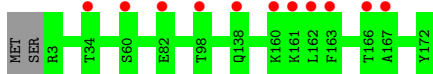


ALA
ASN

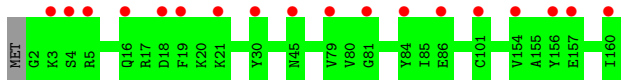
- Molecule 21: 60S ribosomal protein L20



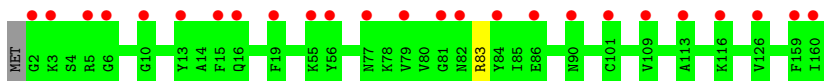
- Molecule 21: 60S ribosomal protein L20



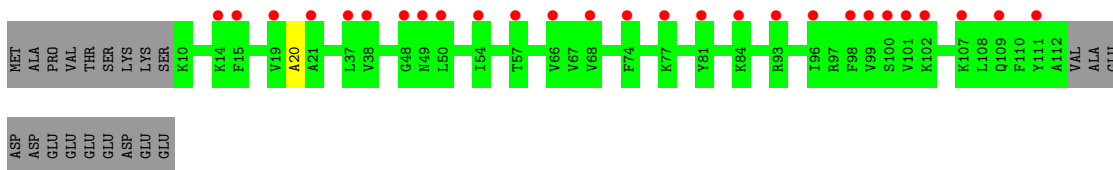
- Molecule 22: 60S ribosomal protein L21-A



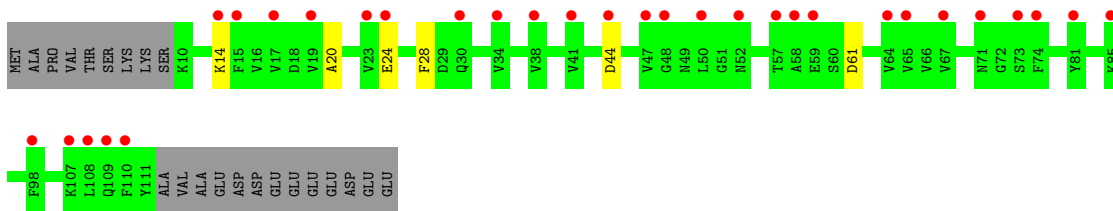
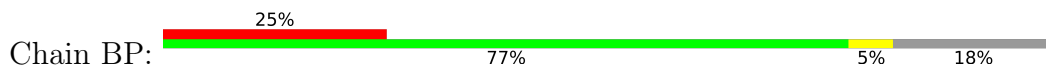
- Molecule 22: 60S ribosomal protein L21-A



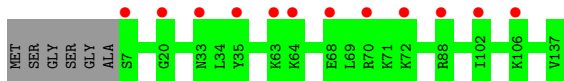
- Molecule 23: 60S ribosomal protein L22-B



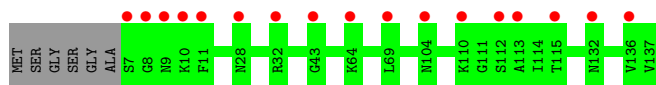
- Molecule 23: 60S ribosomal protein L22-B



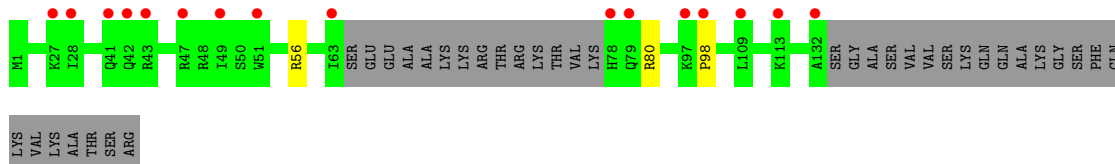
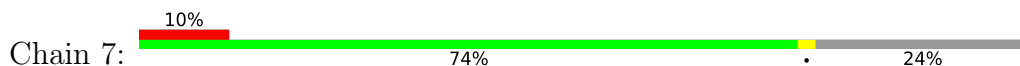
- Molecule 24: 60S ribosomal protein L23-A



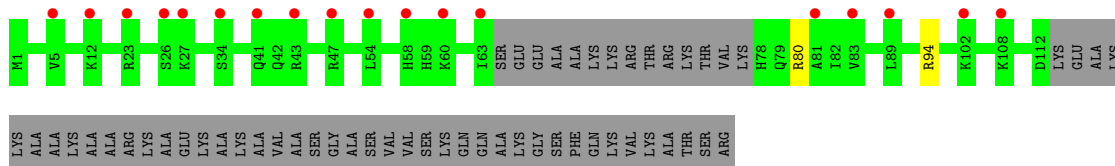
- Molecule 24: 60S ribosomal protein L23-A



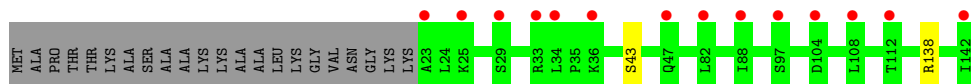
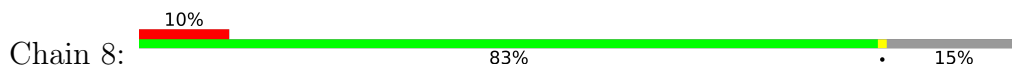
- Molecule 25: 60S ribosomal protein L24-A



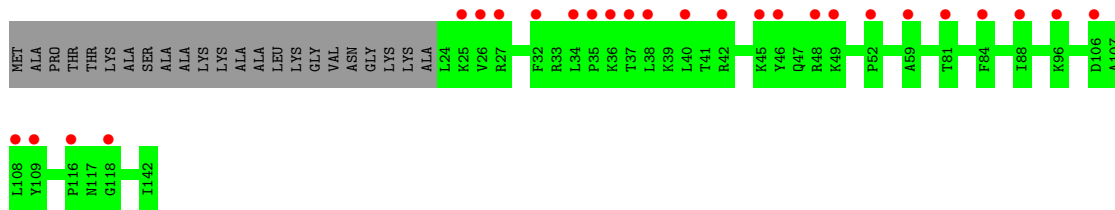
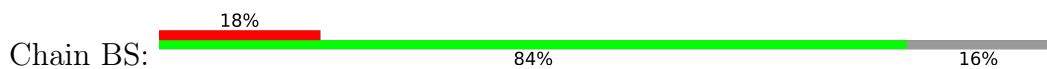
- Molecule 25: 60S ribosomal protein L24-A



- Molecule 26: 60S ribosomal protein L25

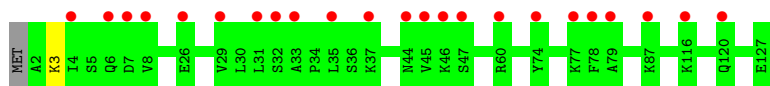


- Molecule 26: 60S ribosomal protein L25

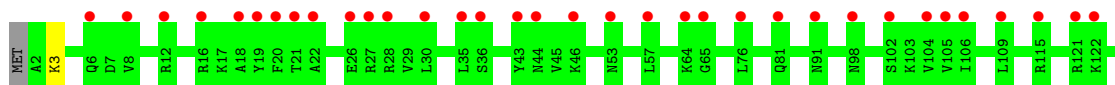


- Molecule 27: Ribosomal protein L24

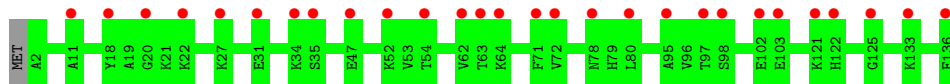




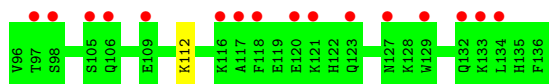
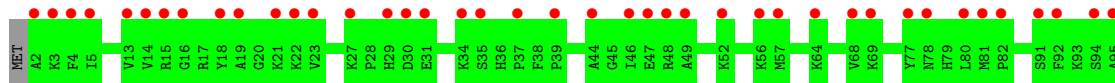
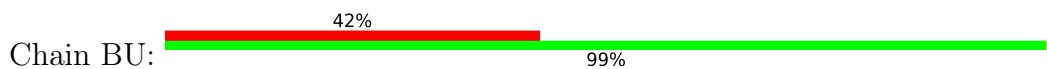
- Molecule 27: Ribosomal protein L24



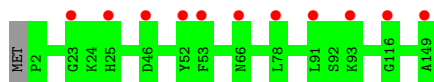
- Molecule 28: 60S ribosomal protein L27



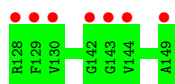
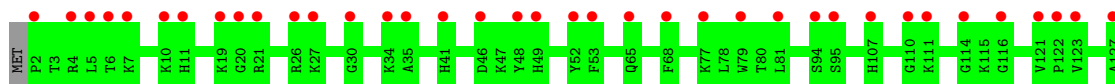
- Molecule 28: 60S ribosomal protein L27



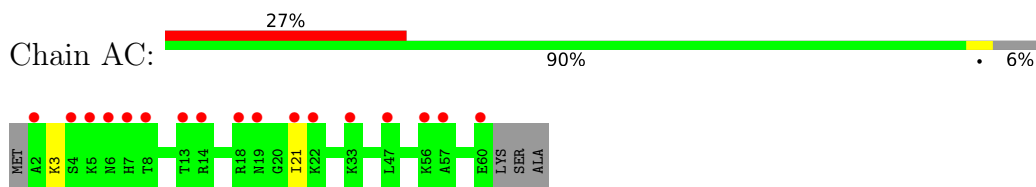
- Molecule 29: 60S ribosomal protein L28



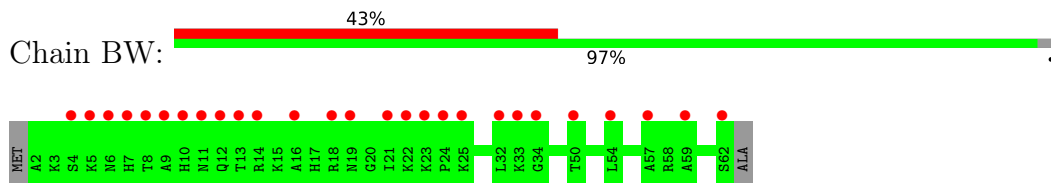
- Molecule 29: 60S ribosomal protein L28



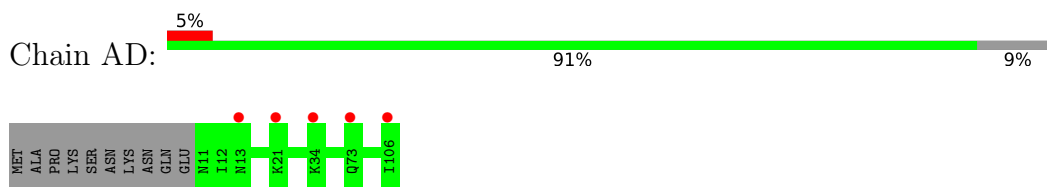
- Molecule 30: 60S ribosomal protein L29



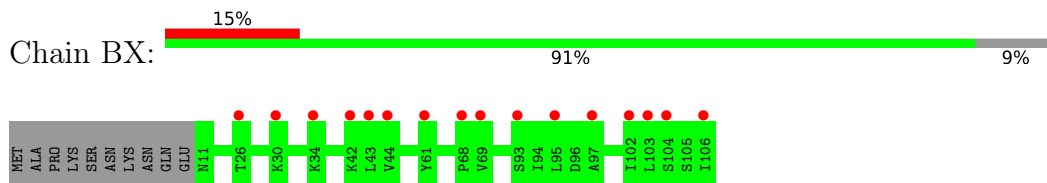
- Molecule 30: 60S ribosomal protein L29



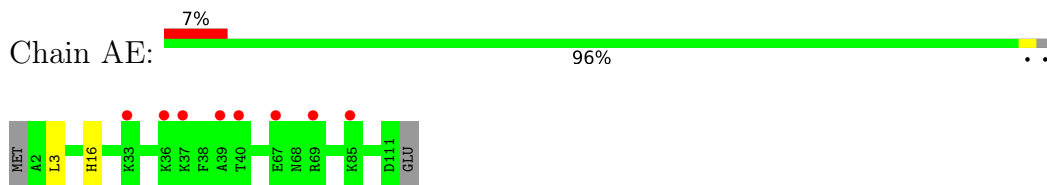
- Molecule 31: 60S ribosomal protein L30



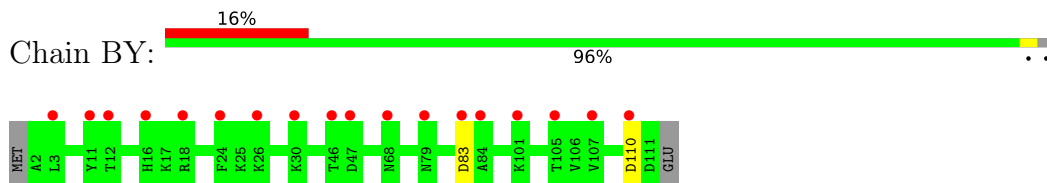
- Molecule 31: 60S ribosomal protein L30



- Molecule 32: 60S ribosomal protein L31-B

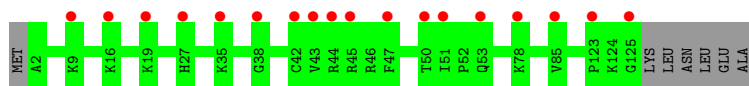


- Molecule 32: 60S ribosomal protein L31-B

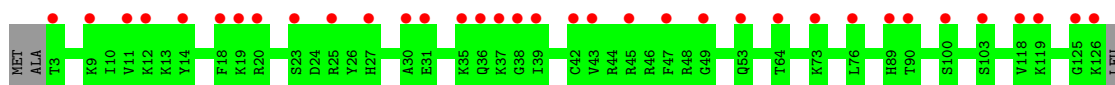


- Molecule 33: 60S ribosomal protein L32

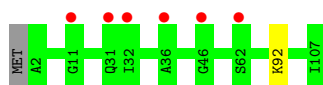




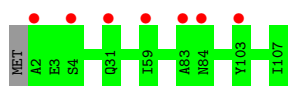
- Molecule 33: 60S ribosomal protein L32



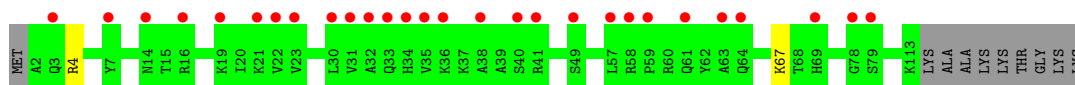
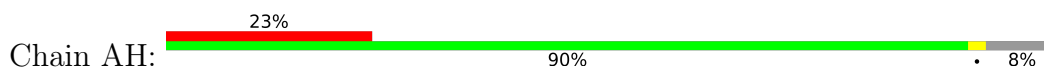
- Molecule 34: 60S ribosomal protein L33-A



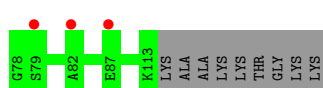
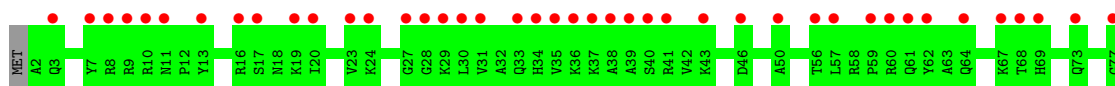
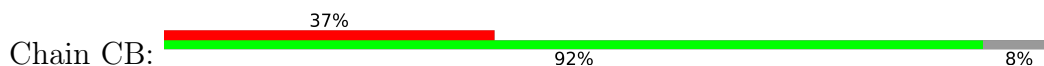
- Molecule 34: 60S ribosomal protein L33-A



- Molecule 35: 60S ribosomal protein L34-B

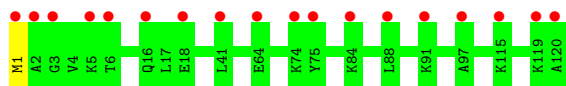


- Molecule 35: 60S ribosomal protein L34-B

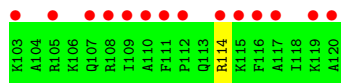
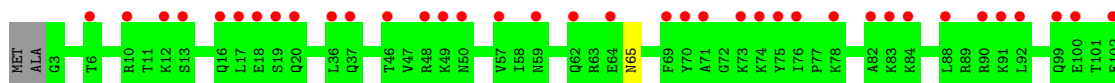
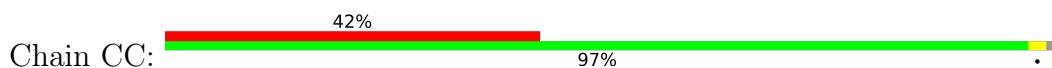


- Molecule 36: Ribosomal protein L29

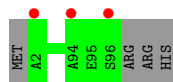




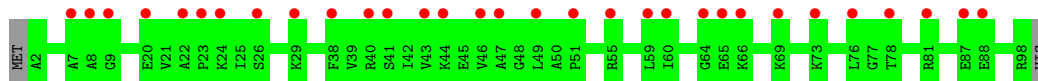
- Molecule 36: Ribosomal protein L29



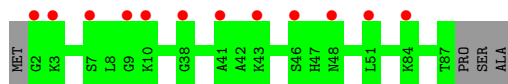
- Molecule 37: 60S ribosomal protein L36



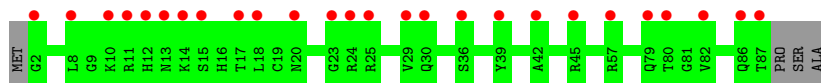
- Molecule 37: 60S ribosomal protein L36



- Molecule 38: 60S ribosomal protein L37-B

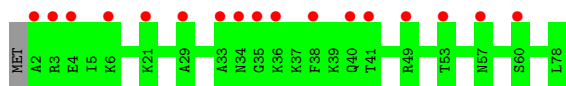


- Molecule 38: 60S ribosomal protein L37-B

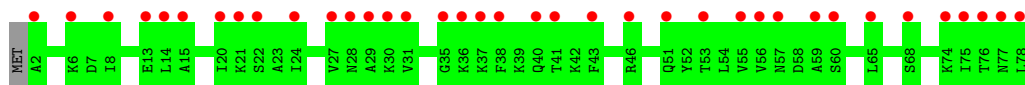


- Molecule 39: 60S ribosomal protein L38

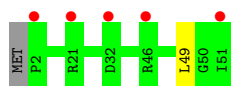




- Molecule 39: 60S ribosomal protein L38



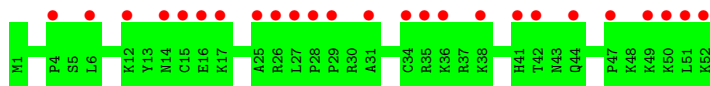
- Molecule 40: 60S ribosomal protein L39



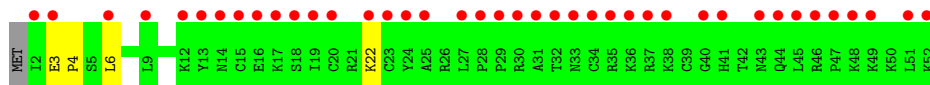
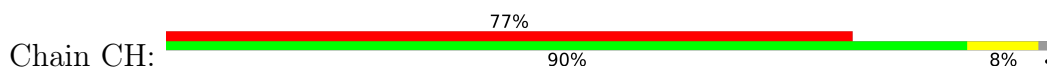
- Molecule 40: 60S ribosomal protein L39



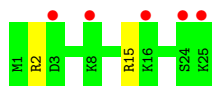
- Molecule 41: 60S ribosomal protein L40-B



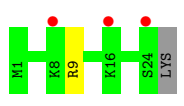
- Molecule 41: 60S ribosomal protein L40-B



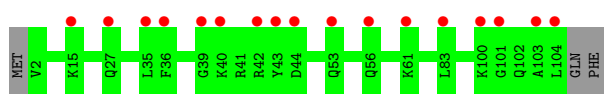
- Molecule 42: 60S ribosomal protein L41



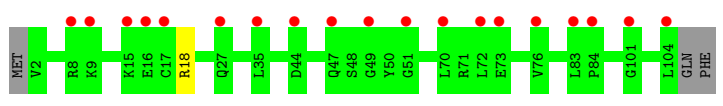
- Molecule 42: 60S ribosomal protein L41



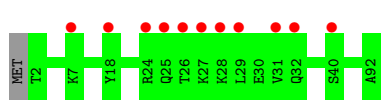
• Molecule 43: 60S ribosomal protein L42-B



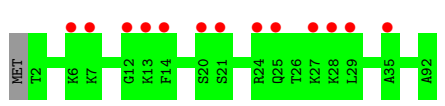
• Molecule 43: 60S ribosomal protein L42-B



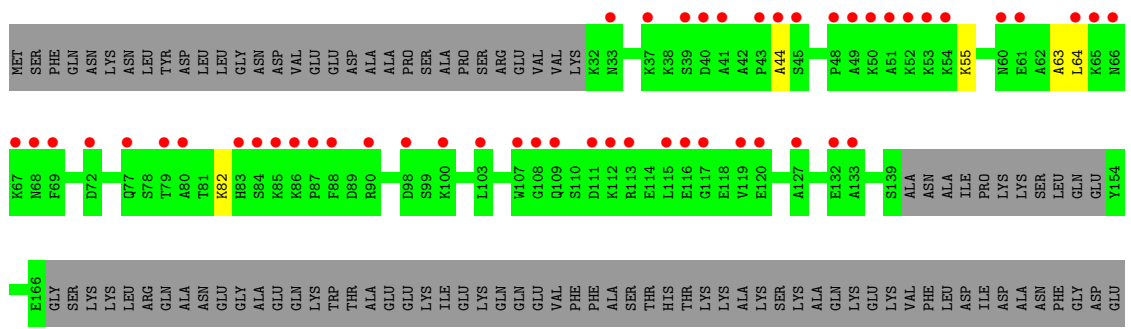
• Molecule 44: 60S ribosomal protein L43-A

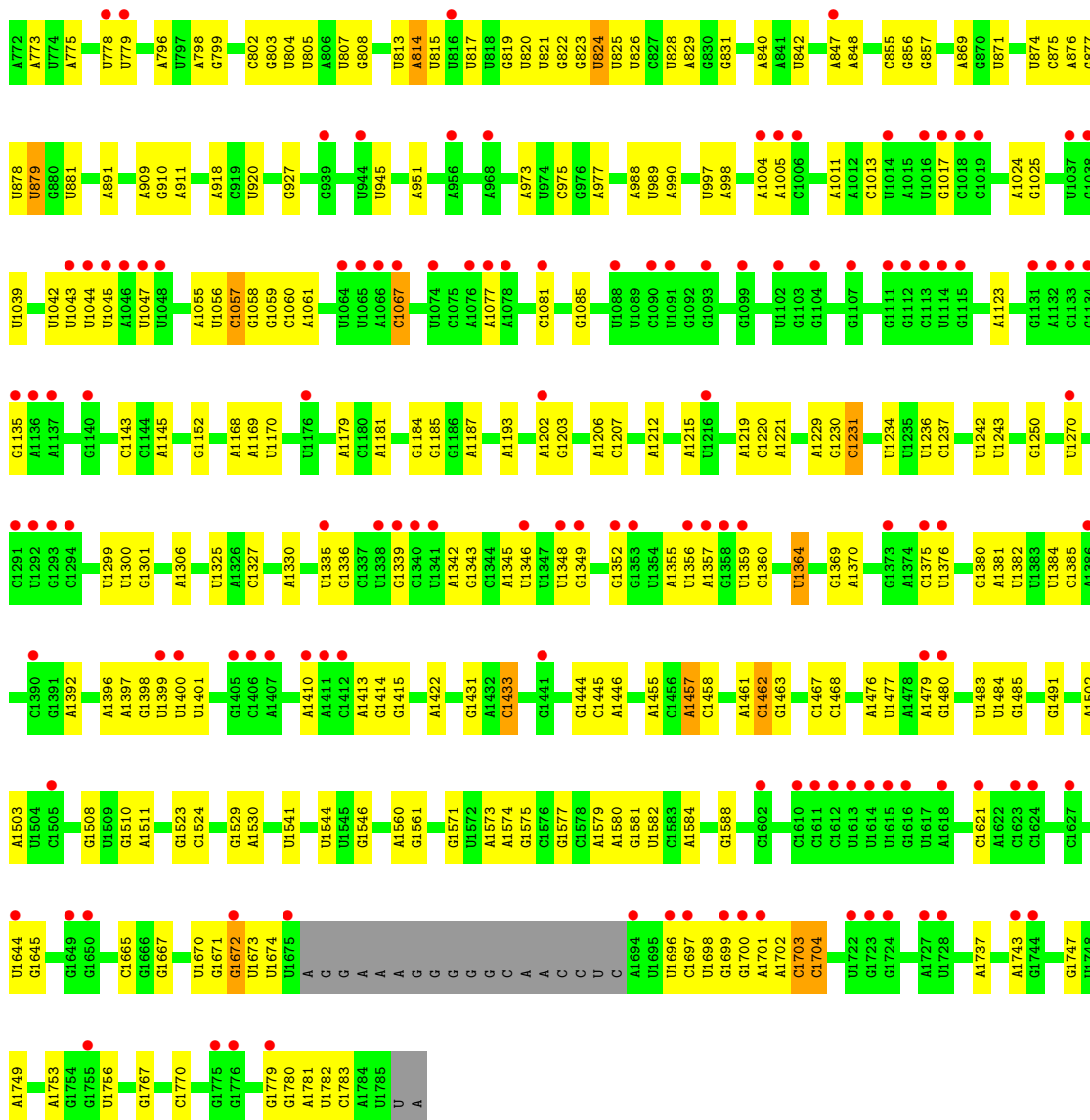


• Molecule 44: 60S ribosomal protein L43-A

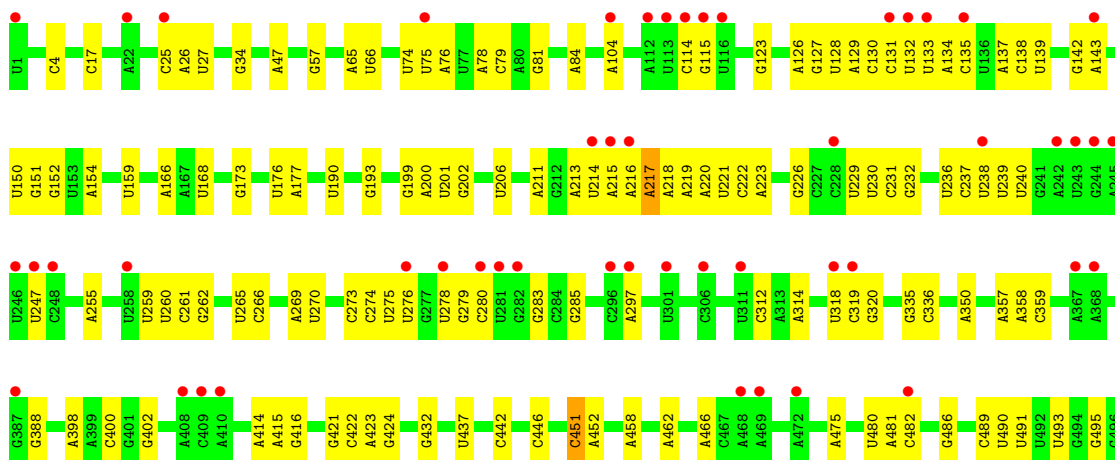
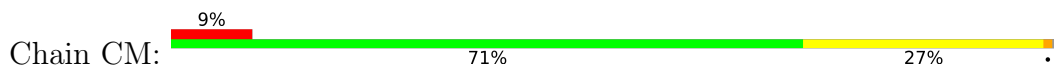


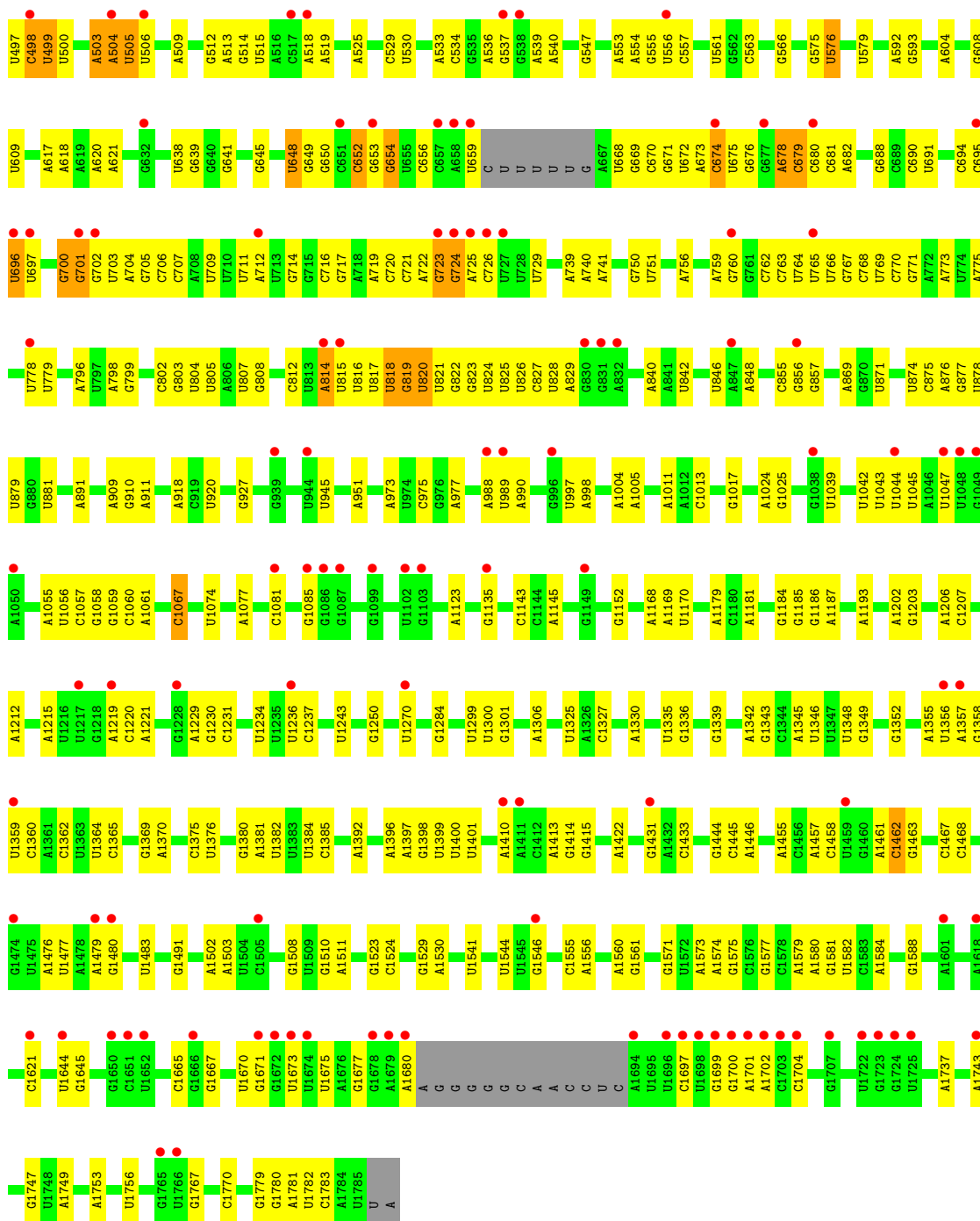
• Molecule 45: 60S ribosomal protein CAALFM_C304810CA



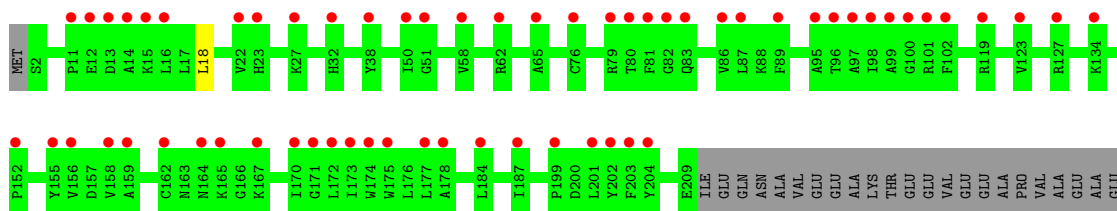
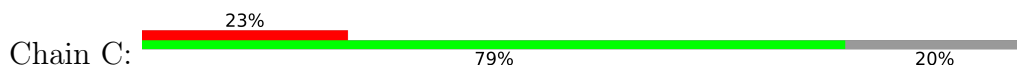


• Molecule 46: 18S





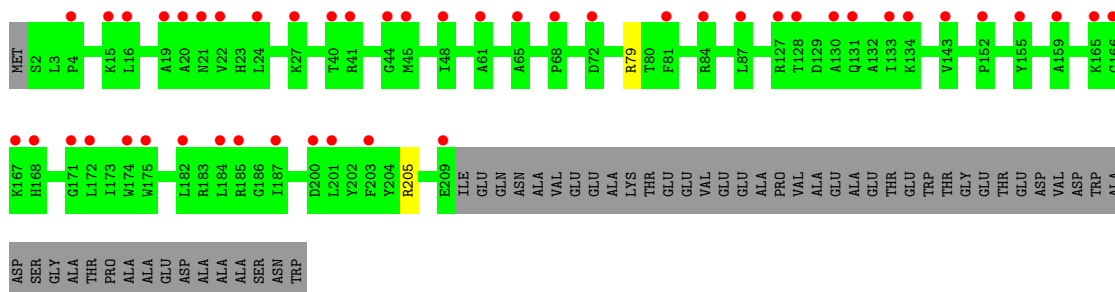
● Molecule 47: 40S ribosomal protein S0



THR
GLU
TRP
TRP
GLY
GLU
THR
GLU
ASP
VAL
ASP
TRP
ALA
ALA
GLU
ASP
ALA
ALA
SER
ASN
TRP

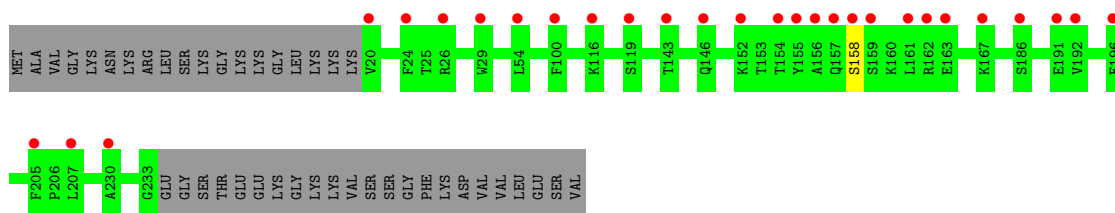
• Molecule 47: 40S ribosomal protein S0

Chain CN: 18% 79% 20%



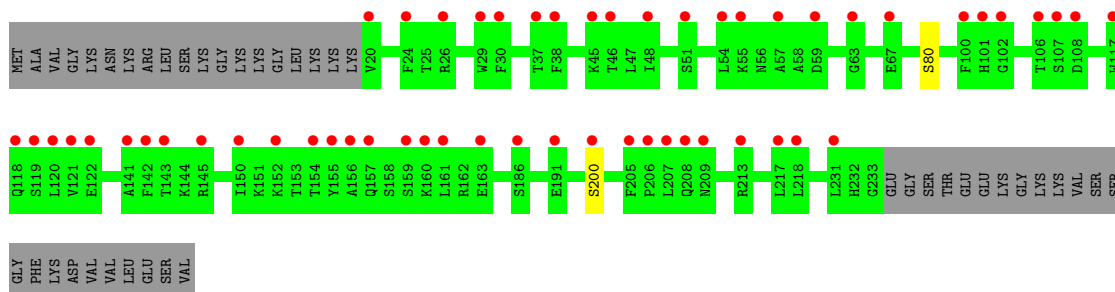
• Molecule 48: 40S ribosomal protein S1

Chain D: 11% 83% 16%



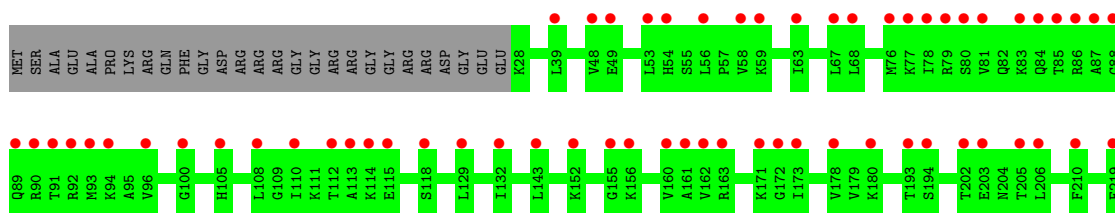
• Molecule 48: 40S ribosomal protein S1

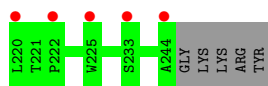
Chain CO: 21% 83% 16%



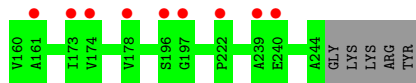
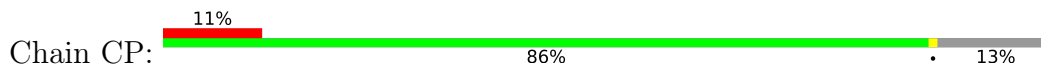
• Molecule 49: Ribosomal protein S5

Chain E: 27% 87% 13%

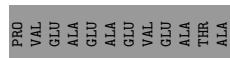
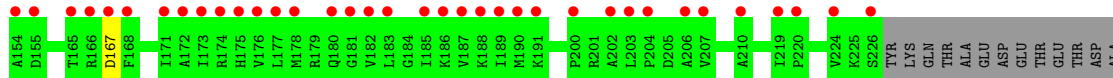
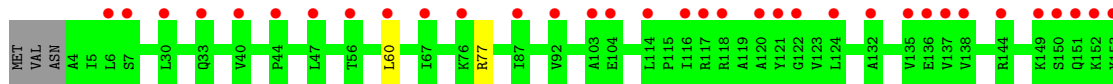
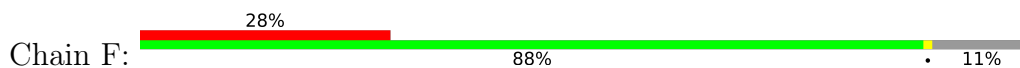




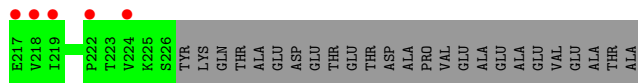
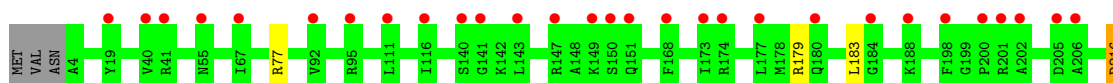
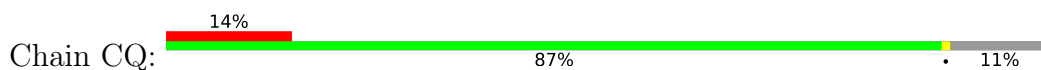
- Molecule 49: Ribosomal protein S5



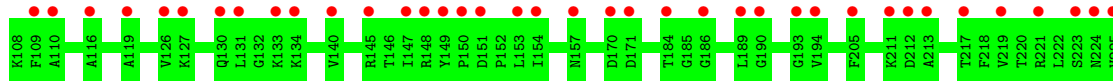
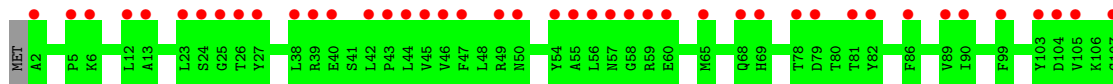
- Molecule 50: Ribosomal protein S3

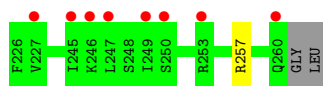


- Molecule 50: Ribosomal protein S3

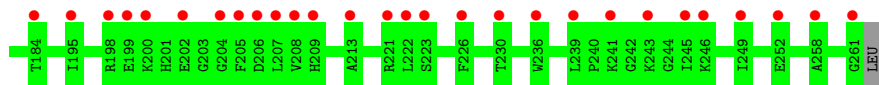
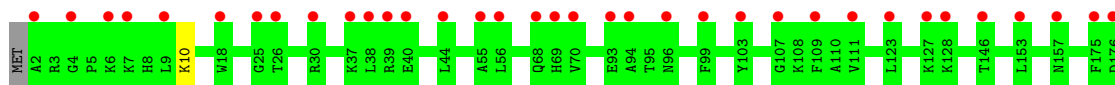


- Molecule 51: 40S ribosomal protein S4

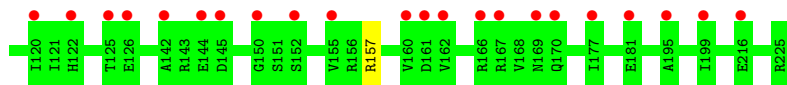
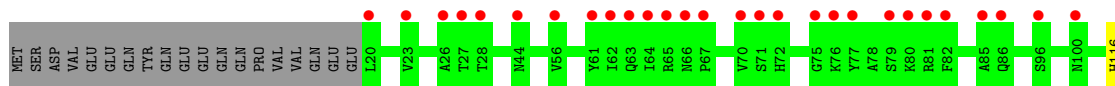
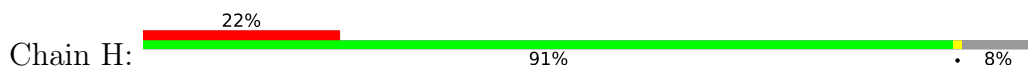




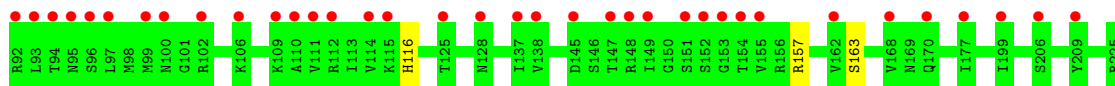
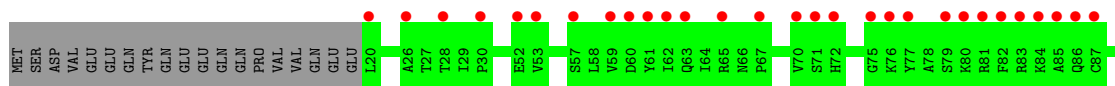
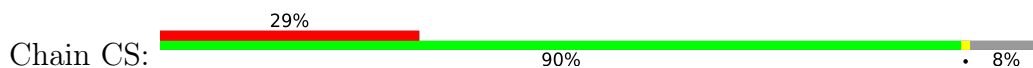
- Molecule 51: 40S ribosomal protein S4



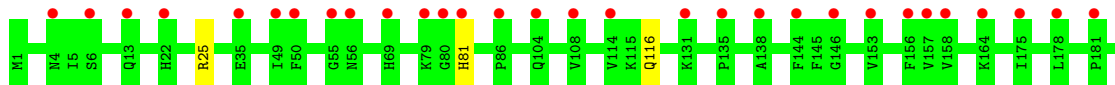
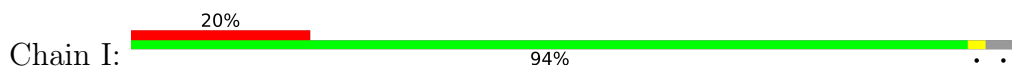
- Molecule 52: Ribosomal protein S7



- Molecule 52: Ribosomal protein S7

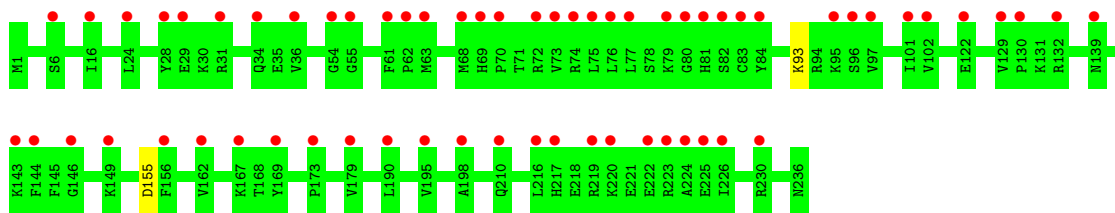


- Molecule 53: 40S ribosomal protein S6

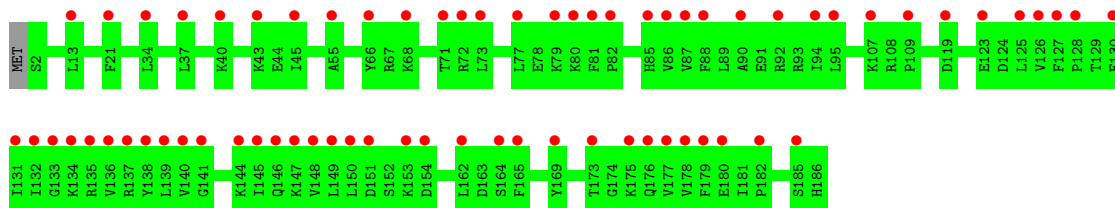


- Molecule 53: 40S ribosomal protein S6

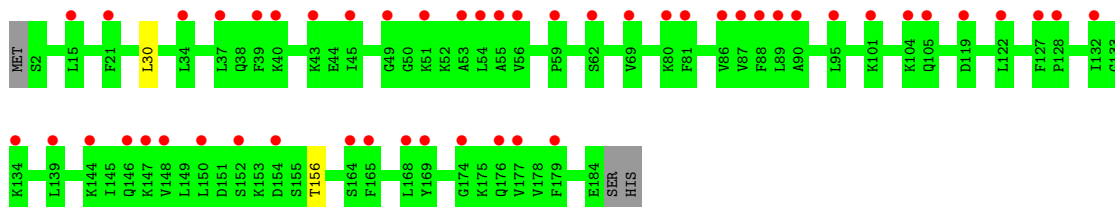




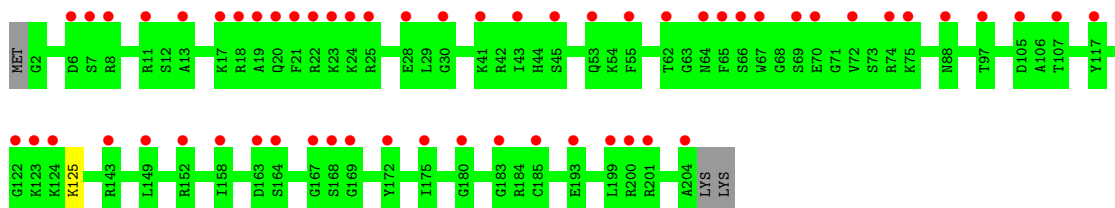
- Molecule 54: 40S ribosomal protein S7



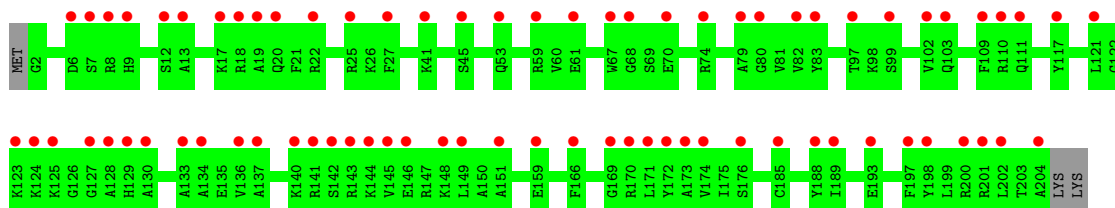
- Molecule 54: 40S ribosomal protein S7



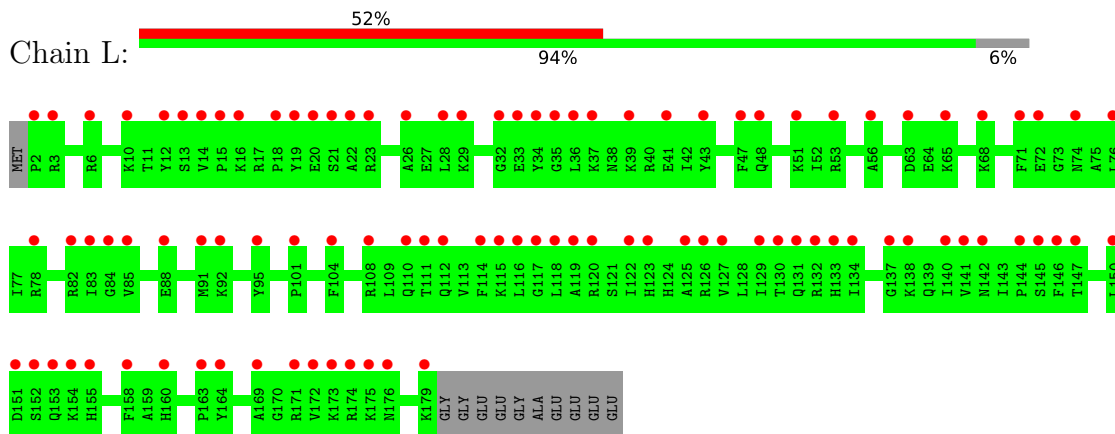
- Molecule 55: 40S ribosomal protein S8



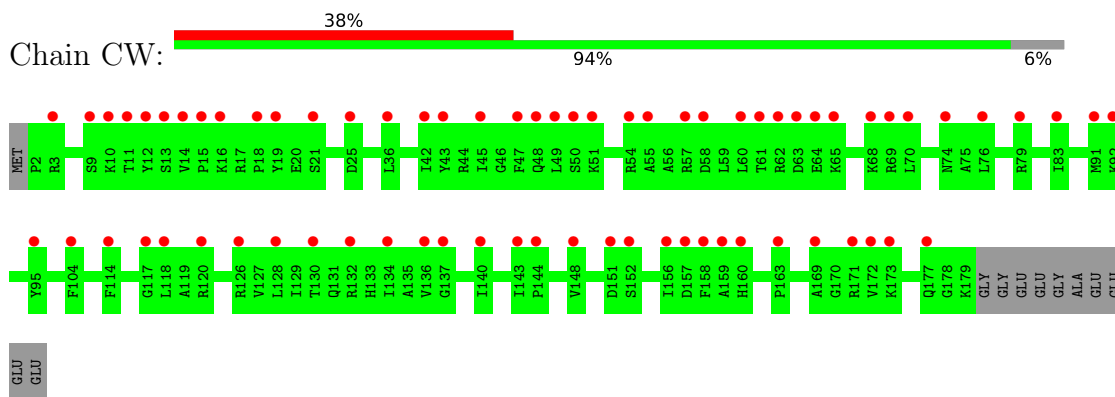
- Molecule 55: 40S ribosomal protein S8



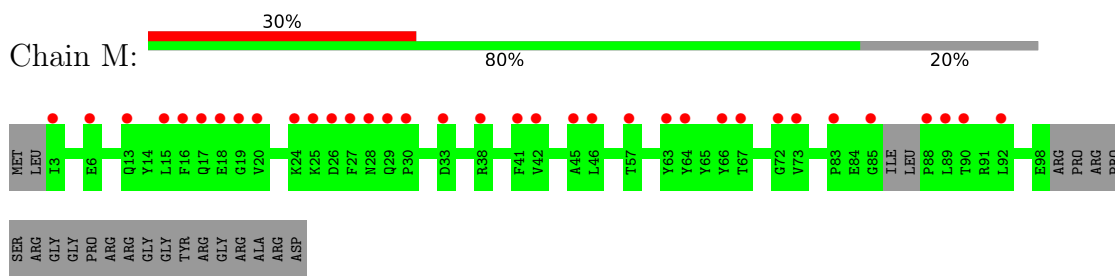
- Molecule 56: Ribosomal protein S4



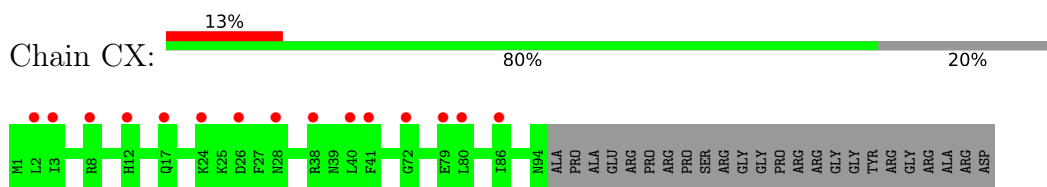
- Molecule 56: Ribosomal protein S4



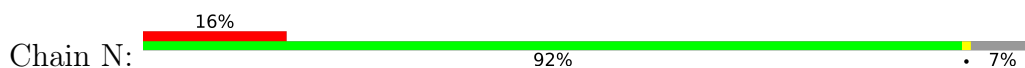
- Molecule 57: 40S ribosomal protein S10-A



- Molecule 57: 40S ribosomal protein S10-A

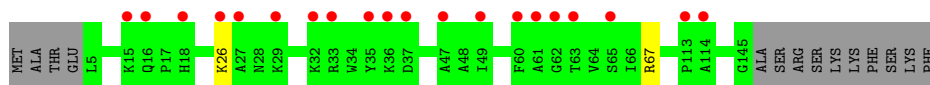


- Molecule 58: 40S ribosomal protein S11A

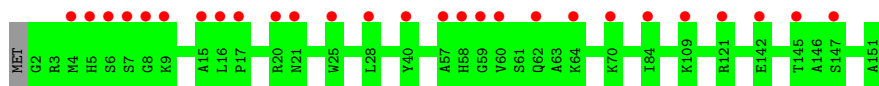




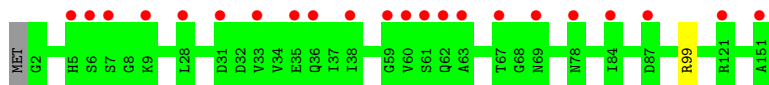
- Molecule 58: 40S ribosomal protein S11A



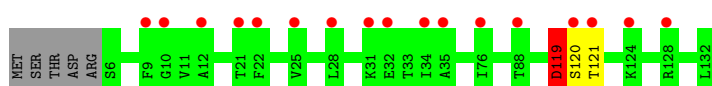
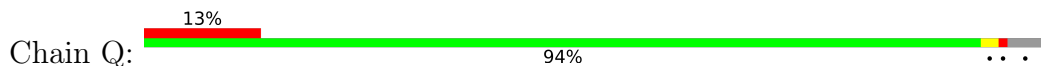
- Molecule 59: 40S ribosomal protein S13



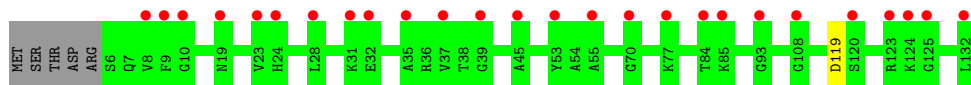
- Molecule 59: 40S ribosomal protein S13



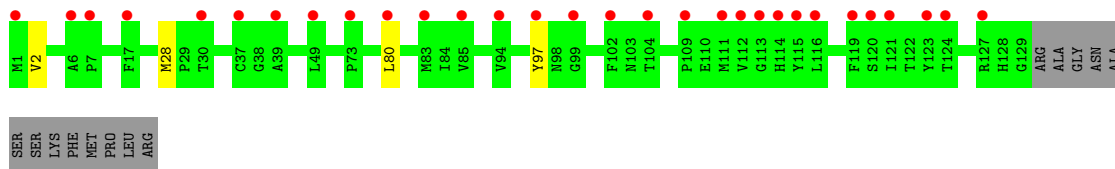
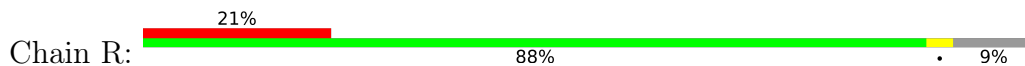
- Molecule 60: 40S ribosomal protein S14-A



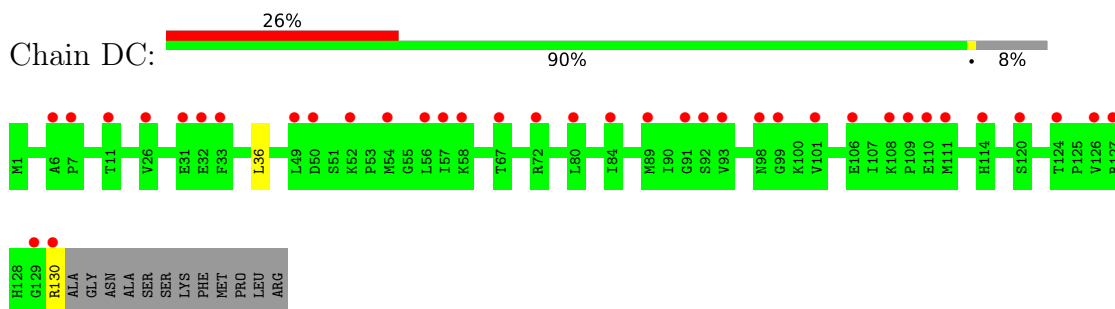
- Molecule 60: 40S ribosomal protein S14-A



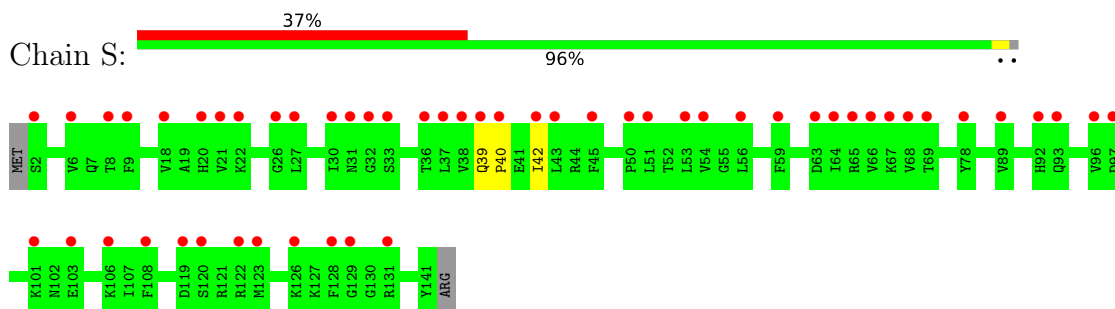
- Molecule 61: 40S ribosomal protein S15



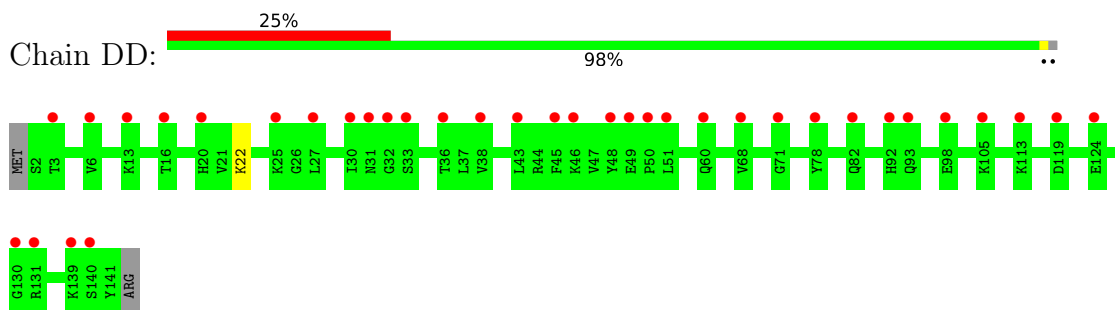
- Molecule 61: 40S ribosomal protein S15



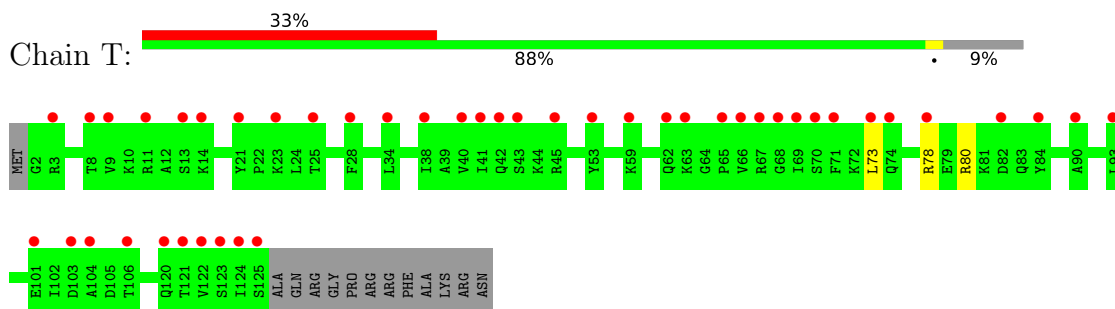
- Molecule 62: 40S ribosomal protein S16



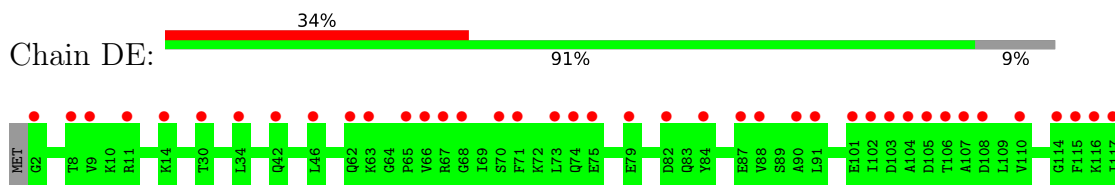
- Molecule 62: 40S ribosomal protein S16

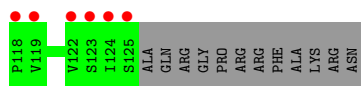


- Molecule 63: 40S ribosomal protein S17-B

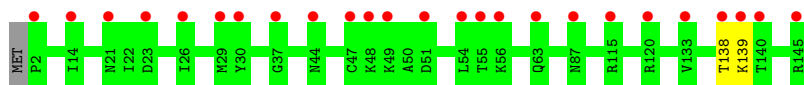


- Molecule 63: 40S ribosomal protein S17-B

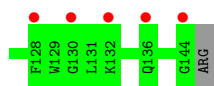
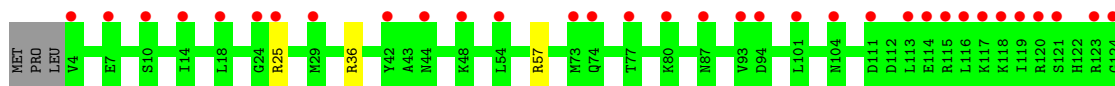




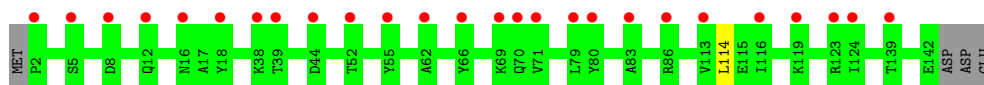
• Molecule 64: 40S ribosomal protein S18-B



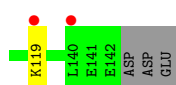
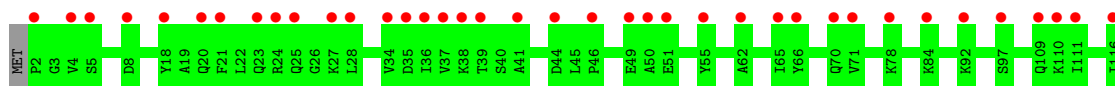
• Molecule 64: 40S ribosomal protein S18-B



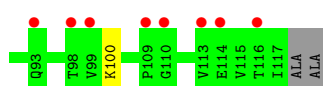
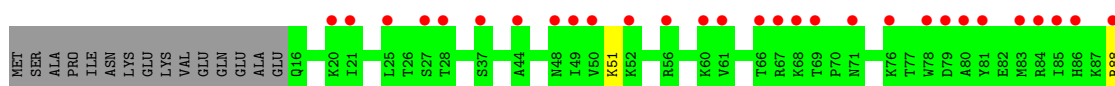
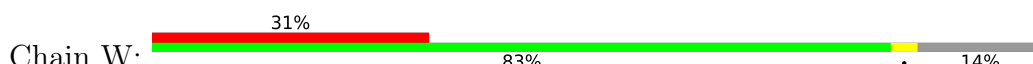
• Molecule 65: 40S ribosomal protein S19-A



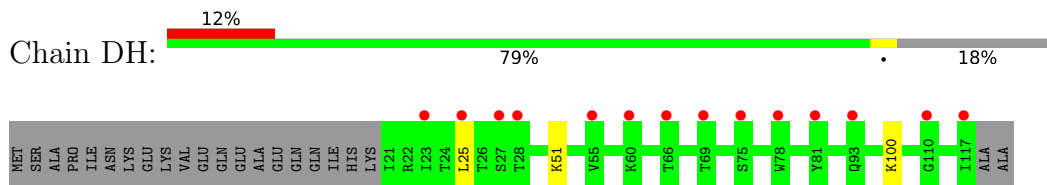
• Molecule 65: 40S ribosomal protein S19-A



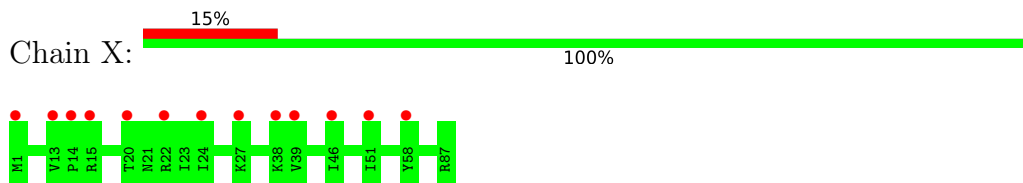
• Molecule 66: Ribosomal protein S10



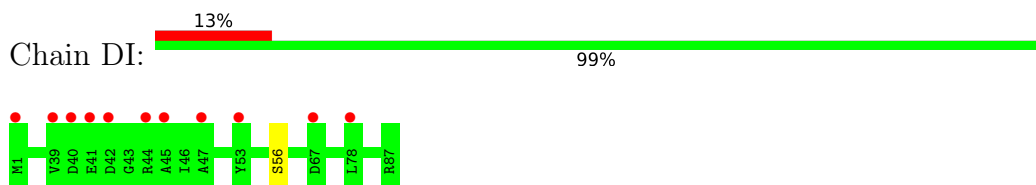
- Molecule 66: Ribosomal protein S10



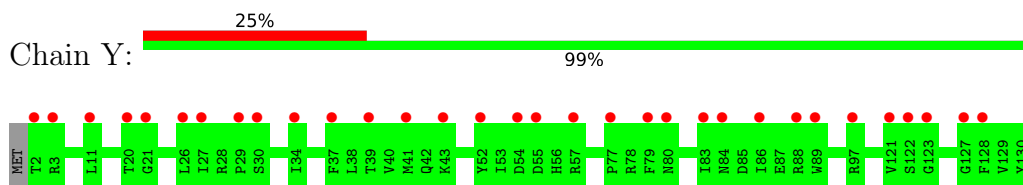
- Molecule 67: 40S ribosomal protein S21



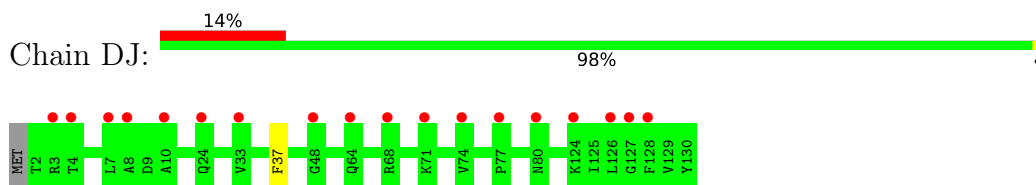
- Molecule 67: 40S ribosomal protein S21



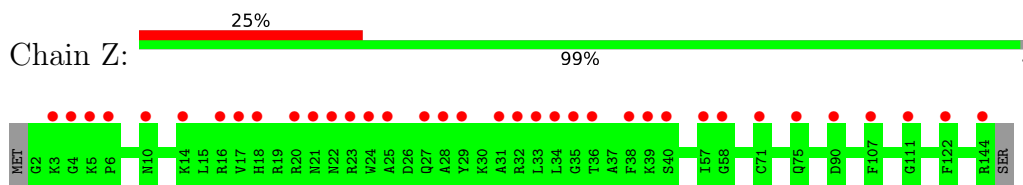
- Molecule 68: 40S ribosomal protein S22-A



- Molecule 68: 40S ribosomal protein S22-A



- Molecule 69: Ribosomal protein S23 (S12)

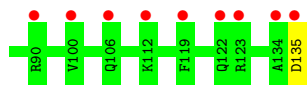
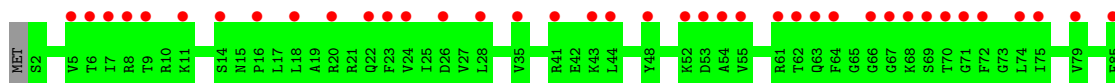


- Molecule 69: Ribosomal protein S23 (S12)

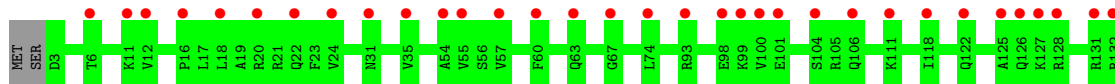




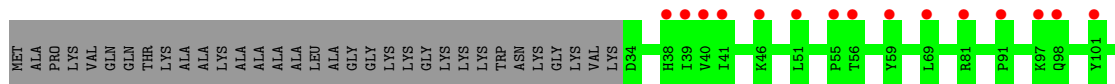
- Molecule 70: 40S ribosomal protein S24



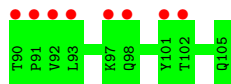
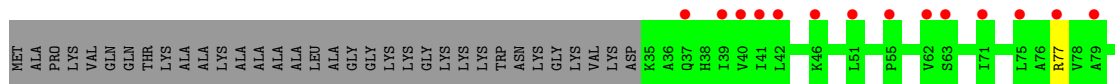
- Molecule 70: 40S ribosomal protein S24



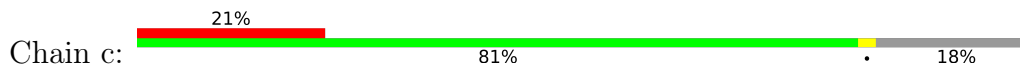
- Molecule 71: 40S ribosomal protein S25

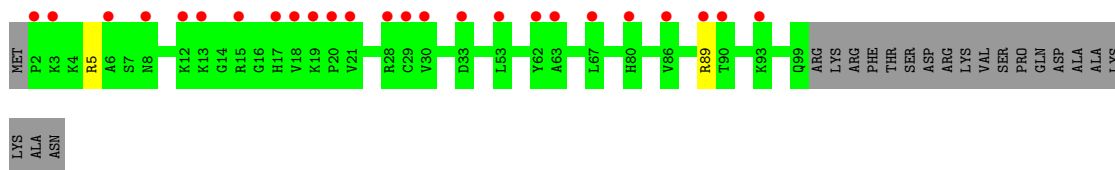


- Molecule 71: 40S ribosomal protein S25

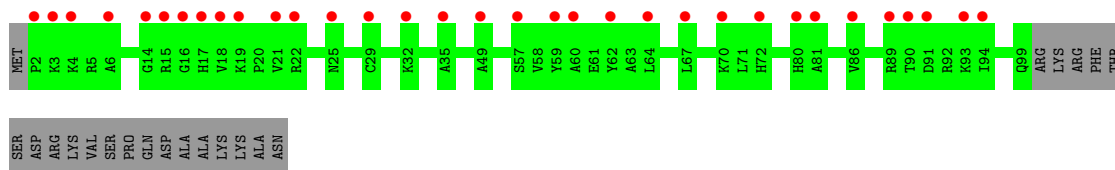
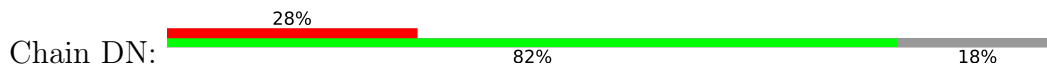


- Molecule 72: 40S ribosomal protein S26

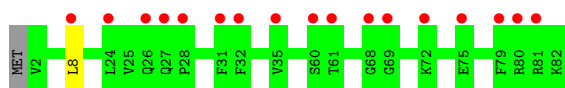




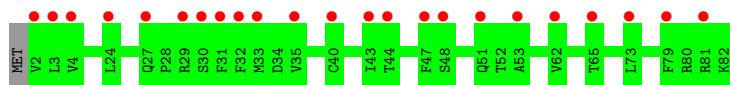
• Molecule 72: 40S ribosomal protein S26



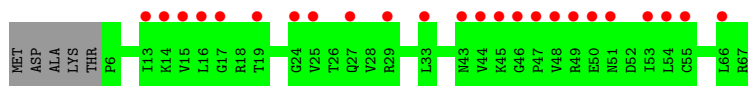
• Molecule 73: 40S ribosomal protein S27



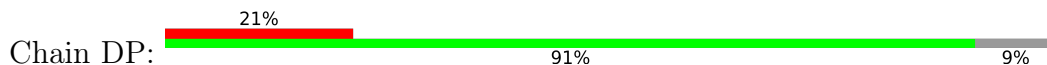
• Molecule 73: 40S ribosomal protein S27



• Molecule 74: 40S ribosomal protein S28-B

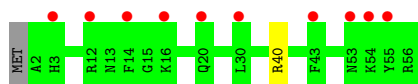


• Molecule 74: 40S ribosomal protein S28-B

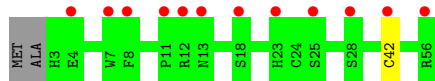


• Molecule 75: 40S ribosomal protein S29A

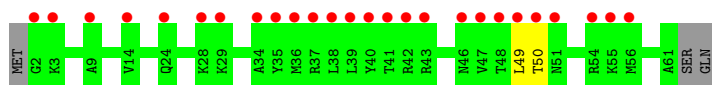
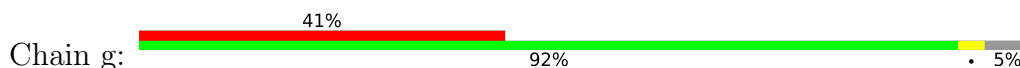




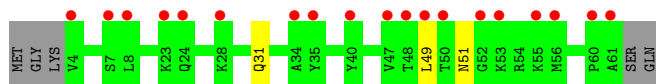
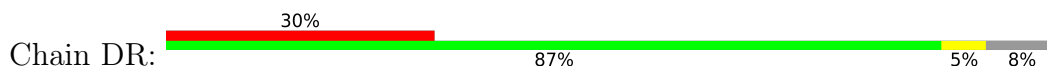
- Molecule 75: 40S ribosomal protein S29A



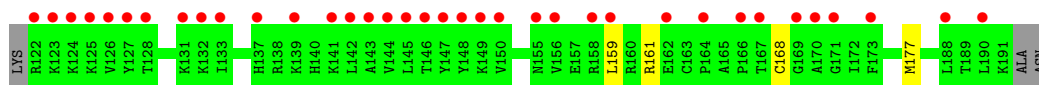
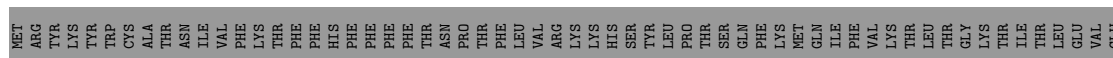
- Molecule 76: 40S ribosomal protein S30



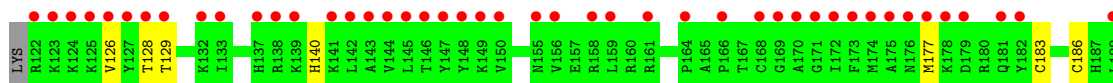
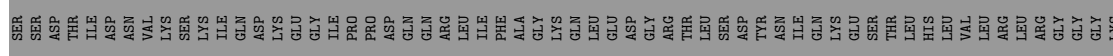
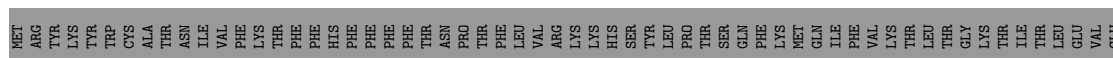
- Molecule 76: 40S ribosomal protein S30

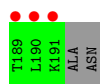


- Molecule 77: Ubiquitin-40S ribosomal protein S31 fusion protein

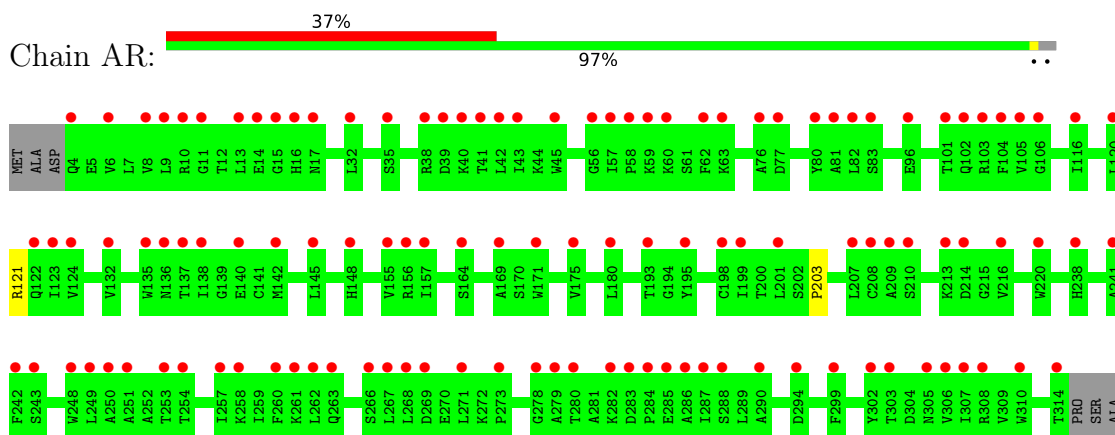


- Molecule 77: Ubiquitin-40S ribosomal protein S31 fusion protein

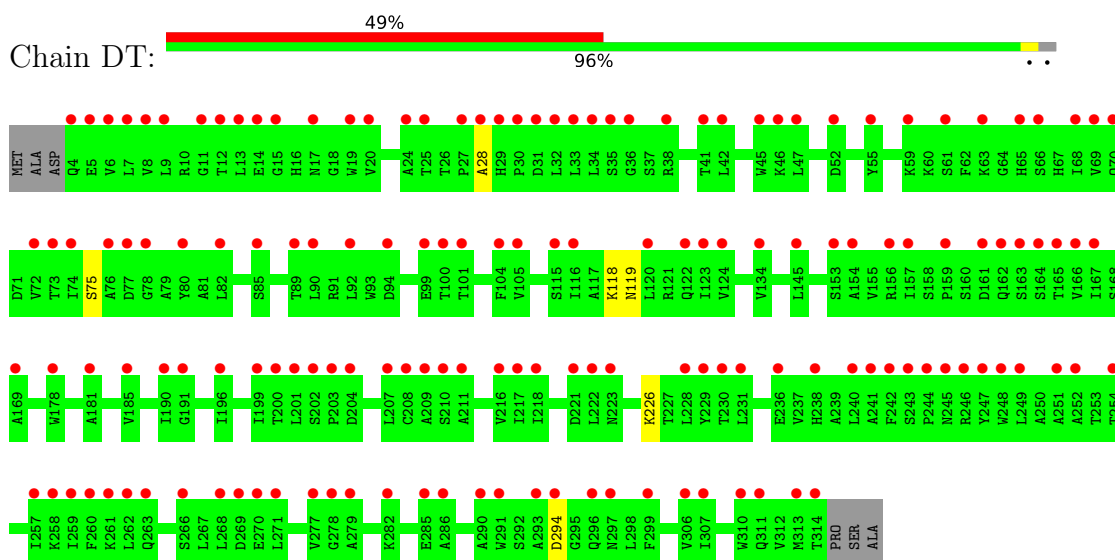




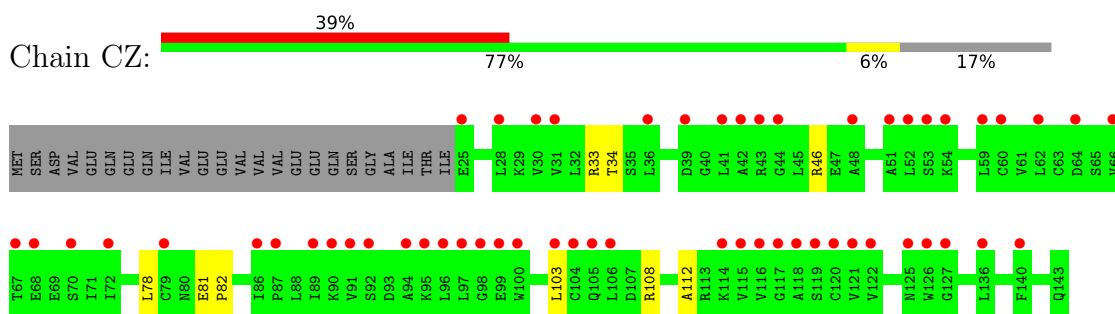
- Molecule 78: Guanine nucleotide-binding protein subunit beta-like protein



- Molecule 78: Guanine nucleotide-binding protein subunit beta-like protein

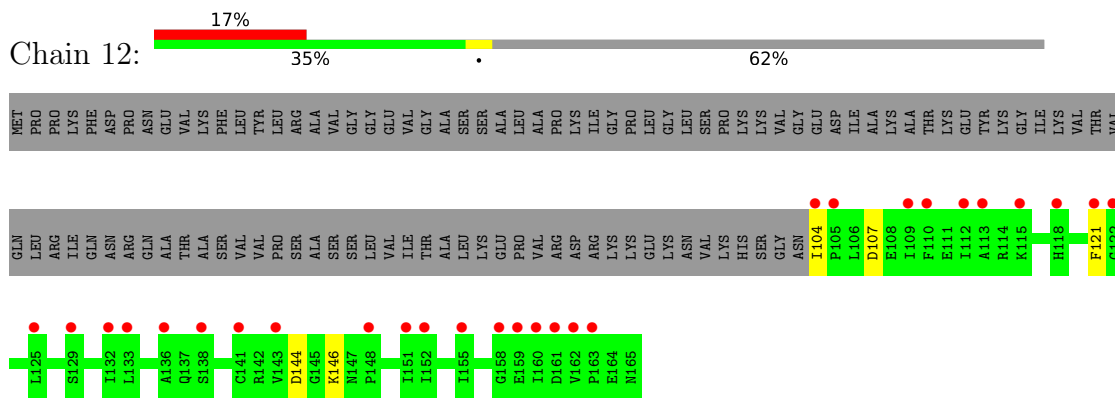


- Molecule 79: 40S ribosomal protein S12

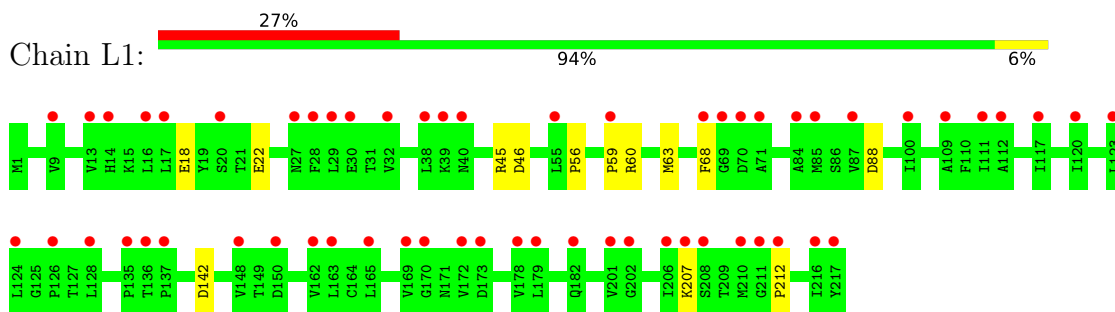


- Molecule 79: 40S ribosomal protein S12

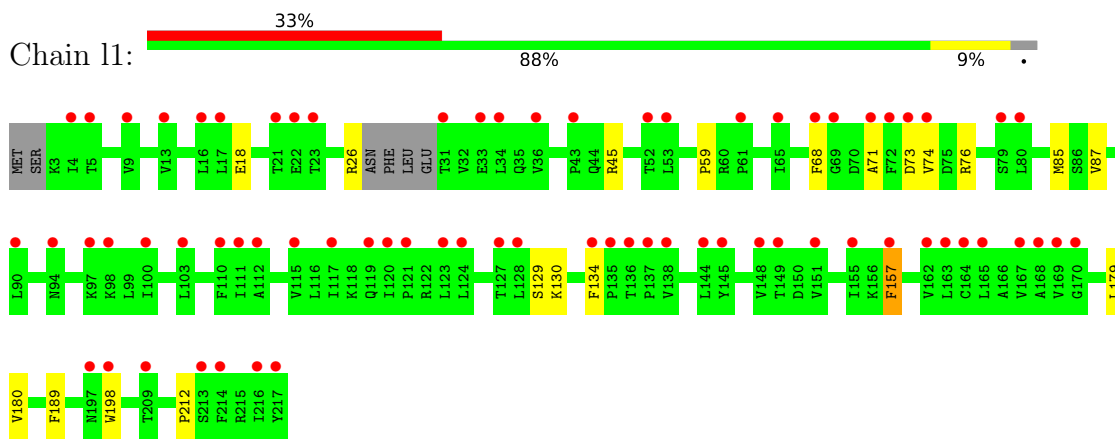




• Molecule 82: Ribosomal protein



• Molecule 82: Ribosomal protein



4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, α , β , γ	299.77Å 294.17Å 451.17Å 90.00° 100.05° 90.00°	Depositor
Resolution (Å)	228.18 – 3.20 228.18 – 3.20	Depositor EDS
% Data completeness (in resolution range)	100.0 (228.18-3.20) 91.7 (228.18-3.20)	Depositor EDS
R_{merge}	0.74	Depositor
R_{sym}	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ ¹	1.00 (at 3.19Å)	Xtrriage
Refinement program	PHENIX 1.19rc4_4035	Depositor
R, R_{free}	0.246 , 0.281 0.248 , 0.283	Depositor DCC
R_{free} test set	2000 reflections (0.16%)	wwPDB-VP
Wilson B-factor (Å ²)	65.1	Xtrriage
Anisotropy	0.105	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.24 , 40.4	EDS
L-test for twinning ²	$\langle L \rangle = 0.42$, $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.86	EDS
Total number of atoms	408874	wwPDB-VP
Average B, all atoms (Å ²)	94.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.42% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: 3K5, MG, ZN

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	1	0.32	0/76948	0.89	100/119959 (0.1%)
1	AS	0.31	0/77089	0.89	105/120181 (0.1%)
2	3	0.25	0/2884	0.76	0/4492
2	AT	0.26	0/2884	0.77	0/4492
3	4	0.25	0/3724	0.78	1/5798 (0.0%)
3	AU	0.26	0/3746	0.79	2/5832 (0.0%)
4	AW	0.28	0/1922	0.57	0/2581
4	j	0.27	0/1922	0.59	0/2581
5	AX	0.28	0/3145	0.58	0/4231
5	k	0.31	0/3156	0.59	0/4246
6	AY	0.26	0/2799	0.55	0/3777
6	l	0.28	0/2799	0.56	0/3777
7	AZ	0.26	0/2447	0.52	0/3294
7	m	0.27	0/2479	0.54	0/3337
8	BA	0.27	0/1231	0.55	0/1662
8	n	0.28	0/1263	0.56	0/1703
9	BB	0.27	0/1918	0.52	0/2575
9	o	0.29	0/1894	0.53	0/2542
10	BC	0.27	0/1835	0.50	0/2472
10	p	0.27	0/1869	0.51	0/2519
11	BD	0.26	0/1537	0.54	0/2067
11	q	0.28	0/1537	0.58	0/2067
12	BE	0.28	0/1724	0.57	0/2314
12	r	0.27	0/1724	0.57	0/2314
13	BF	0.27	0/1390	0.59	0/1861
13	s	0.27	0/1390	0.58	0/1861
14	BG	0.26	0/1637	0.55	0/2195
14	t	0.27	0/1637	0.57	0/2195
15	BH	0.26	0/1044	0.54	0/1407
15	u	0.27	0/1044	0.56	0/1407
16	BI	0.26	0/1753	0.60	0/2347
16	v	0.29	0/1753	0.62	0/2347

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
17	BJ	0.28	0/1620	0.53	0/2167
17	w	0.28	0/1620	0.54	0/2167
18	BK	0.26	0/1429	0.58	0/1920
18	x	0.27	0/1410	0.58	0/1895
19	BL	0.27	0/1482	0.59	0/1985
19	y	0.28	0/1482	0.59	0/1985
20	BM	0.26	0/1475	0.60	0/1961
20	z	0.26	0/1475	0.60	0/1961
21	0	0.27	0/1457	0.58	0/1962
21	BN	0.27	0/1457	0.55	0/1962
22	2	0.28	0/1285	0.55	0/1723
22	BO	0.27	0/1285	0.53	0/1723
23	5	0.27	0/846	0.47	0/1140
23	BP	0.27	0/857	0.51	0/1156
24	6	0.28	0/993	0.58	0/1339
24	BQ	0.29	0/993	0.59	0/1339
25	7	0.27	0/958	0.53	0/1267
25	BR	0.26	0/814	0.55	0/1079
26	8	0.27	0/981	0.54	0/1326
26	BS	0.25	0/976	0.52	0/1319
27	9	0.26	0/999	0.54	0/1334
27	BT	0.25	0/999	0.53	0/1334
28	AA	0.27	0/1112	0.49	0/1488
28	BU	0.26	0/1112	0.49	0/1488
29	AB	0.26	0/1199	0.54	0/1607
29	BV	0.26	0/1199	0.54	0/1607
30	AC	0.25	0/483	0.60	0/642
30	BW	0.25	0/498	0.52	0/661
31	AD	0.27	0/738	0.49	0/994
31	BX	0.27	0/738	0.49	0/994
32	AE	0.26	0/907	0.57	1/1219 (0.1%)
32	BY	0.25	0/907	0.56	0/1219
33	AF	0.27	0/1021	0.54	0/1368
33	BZ	0.26	0/1025	0.56	0/1372
34	AG	0.29	0/866	0.54	0/1165
34	CA	0.28	0/866	0.54	0/1165
35	AH	0.26	0/896	0.58	0/1195
35	CB	0.25	0/896	0.58	0/1195
36	AI	0.25	0/1003	0.56	0/1336
36	CC	0.25	0/990	0.55	0/1319
37	AJ	0.26	0/741	0.56	0/984
37	CD	0.26	0/763	0.58	0/1012
38	AK	0.29	0/690	0.64	0/916

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
38	CE	0.26	0/690	0.60	0/916
39	AL	0.26	0/623	0.51	0/831
39	CF	0.30	0/623	0.57	0/831
40	AM	0.26	0/447	0.58	0/594
40	CG	0.26	0/447	0.64	0/594
41	AN	0.26	0/425	0.59	0/563
41	CH	0.32	0/417	0.65	0/553
42	AO	0.28	0/237	0.73	0/304
42	CI	0.27	0/228	0.71	0/293
43	AP	0.28	0/840	0.57	0/1110
43	CJ	0.29	0/840	0.55	0/1110
44	AQ	0.29	0/705	0.61	0/940
44	CK	0.26	0/705	0.59	0/940
45	CL	0.33	0/942	0.64	0/1258
45	i	0.30	0/942	0.66	0/1258
46	B	0.31	0/41860	0.94	87/65228 (0.1%)
46	CM	0.33	0/42081	0.94	77/65573 (0.1%)
47	C	0.25	0/1666	0.50	0/2273
47	CN	0.26	0/1666	0.51	0/2273
48	CO	0.26	0/1750	0.58	0/2354
48	D	0.25	0/1750	0.54	0/2354
49	CP	0.28	0/1657	0.53	0/2248
49	E	0.26	0/1657	0.51	0/2248
50	CQ	0.28	0/1731	0.63	2/2324 (0.1%)
50	F	0.27	0/1731	0.61	1/2324 (0.0%)
51	CR	0.27	0/2096	0.57	0/2822
51	G	0.26	0/2092	0.56	0/2817
52	CS	0.27	0/1631	0.54	0/2199
52	H	0.25	0/1631	0.56	0/2199
53	CT	0.28	0/1929	0.59	0/2571
53	I	0.26	0/1845	0.56	0/2464
54	CU	0.26	0/1499	0.56	0/2016
54	J	0.26	0/1516	0.55	0/2039
55	CV	0.27	0/1606	0.60	0/2150
55	K	0.27	0/1606	0.60	0/2150
56	CW	0.26	0/1478	0.57	0/1978
56	L	0.26	0/1478	0.56	0/1978
57	CX	0.28	0/809	0.59	0/1092
57	M	0.29	0/803	0.62	0/1083
58	CY	0.28	0/1154	0.57	0/1553
58	N	0.27	0/1175	0.56	0/1582
59	DA	0.26	0/1210	0.54	0/1631
59	P	0.24	0/1210	0.50	0/1631

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
60	DB	0.29	0/953	0.67	0/1279
60	Q	0.31	0/953	0.66	1/1279 (0.1%)
61	DC	0.29	0/1049	0.61	0/1409
61	R	0.31	0/1038	0.62	1/1395 (0.1%)
62	DD	0.25	0/1109	0.54	0/1486
62	S	0.28	0/1109	0.55	0/1486
63	DE	0.28	0/1009	0.63	0/1354
63	T	0.28	0/1009	0.69	1/1354 (0.1%)
64	DF	0.26	0/1178	0.59	0/1579
64	U	0.27	0/1205	0.58	0/1615
65	DG	0.27	0/1120	0.57	0/1508
65	V	0.27	0/1120	0.59	1/1508 (0.1%)
66	DH	0.27	0/772	0.60	1/1045 (0.1%)
66	W	0.25	0/818	0.57	0/1106
67	DI	0.28	0/683	0.59	0/918
67	X	0.26	0/683	0.57	0/918
68	DJ	0.30	0/1049	0.57	0/1412
68	Y	0.25	0/1049	0.55	0/1412
69	DK	0.28	0/1128	0.60	0/1505
69	Z	0.27	0/1128	0.62	0/1505
70	DL	0.27	0/1086	0.58	0/1447
70	a	0.26	0/1100	0.57	0/1466
71	DM	0.26	0/577	0.56	0/778
71	b	0.26	0/585	0.52	0/789
72	DN	0.25	0/791	0.60	0/1060
72	c	0.26	0/791	0.61	0/1060
73	DO	0.27	0/624	0.56	0/843
73	d	0.26	0/624	0.52	0/843
74	DP	0.27	0/478	0.69	0/640
74	e	0.26	0/489	0.69	0/654
75	DQ	0.32	0/461	0.60	0/613
75	f	0.28	0/466	0.58	0/620
76	DR	0.35	0/469	0.70	0/626
76	g	0.29	0/482	0.60	0/642
77	DS	0.32	0/585	0.78	1/778 (0.1%)
77	h	0.29	0/585	0.71	1/778 (0.1%)
78	AR	0.24	0/2451	0.54	0/3337
78	DT	0.28	0/2451	0.60	0/3337
79	CZ	0.30	0/921	0.85	2/1240 (0.2%)
79	O	0.30	0/293	0.68	1/393 (0.3%)
80	P0	0.26	0/857	0.58	0/1148
80	p0	0.35	0/489	0.73	0/645
81	12	0.32	0/478	0.50	0/642

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
82	L1	0.27	0/1737	0.53	0/2335
82	l1	0.28	0/1685	0.57	0/2264
All	All	0.30	0/436812	0.79	386/640723 (0.1%)

There are no bond length outliers.

All (386) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	1576	A	O4'-C1'-N9	13.13	118.70	108.20
46	B	724	G	N3-C4-C5	-10.96	123.12	128.60
1	1	1576	A	C4-N9-C1'	9.66	143.69	126.30
79	CZ	81	GLU	C-N-CD	-9.52	99.65	120.60
46	CM	656	C	N1-C2-O2	9.30	124.48	118.90
46	B	824	U	O4'-C1'-N1	-9.12	100.90	108.20
46	B	698	C	C6-N1-C2	-8.99	116.70	120.30
46	B	676	G	O4'-C1'-N9	8.93	115.34	108.20
50	F	60	LEU	CA-CB-CG	8.78	135.49	115.30
1	AS	119	G	C8-N9-C4	8.50	109.80	106.40
46	B	723	G	O4'-C1'-N9	8.50	115.00	108.20
1	1	1230	G	O4'-C1'-N9	8.49	114.99	108.20
1	1	1576	A	C6-C5-N7	-8.48	126.36	132.30
63	T	73	LEU	CA-CB-CG	8.44	134.71	115.30
1	AS	2419	A	C8-N9-C4	-8.43	102.43	105.80
1	AS	477	U	C5-C6-N1	8.37	126.89	122.70
1	1	1576	A	N7-C8-N9	8.31	117.95	113.80
46	CM	656	C	C6-N1-C2	-8.30	116.98	120.30
1	1	1576	A	C8-N9-C1'	-8.29	112.78	127.70
1	AS	1252	G	C8-N9-C1'	-8.27	116.24	127.00
46	B	698	C	C5-C6-N1	8.18	125.09	121.00
46	B	451	C	N1-C2-O2	8.10	123.76	118.90
1	AS	1228	C	N1-C2-O2	8.08	123.75	118.90
46	B	451	C	C2-N1-C1'	8.03	127.64	118.80
46	CM	656	C	C2-N1-C1'	8.03	127.64	118.80
46	CM	451	C	N1-C2-O2	8.00	123.70	118.90
1	1	1218	G	O4'-C1'-N9	7.94	114.56	108.20
1	AS	480	G	C8-N9-C4	-7.94	103.22	106.40
46	B	485	G	C4-N9-C1'	7.93	136.81	126.50
46	CM	701	G	N3-C4-N9	-7.83	121.30	126.00
1	AS	1252	G	C4-N9-C1'	7.80	136.64	126.50
1	AS	480	G	N3-C4-C5	-7.78	124.71	128.60
46	B	656	C	C6-N1-C2	-7.76	117.19	120.30
1	AS	1228	C	C2-N1-C1'	7.65	127.21	118.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	656	C	N3-C2-O2	-7.61	116.57	121.90
46	CM	451	C	C2-N1-C1'	7.61	127.17	118.80
46	CM	696	U	C5-C6-N1	7.58	126.49	122.70
46	B	724	G	O4'-C1'-N9	7.54	114.23	108.20
46	B	482	C	O4'-C1'-N1	7.50	114.20	108.20
46	B	656	C	C2-N1-C1'	7.50	127.05	118.80
1	1	401	U	O4'-C1'-N1	7.47	114.18	108.20
3	AU	39	G	O4'-C1'-N9	7.41	114.13	108.20
1	1	2814	U	C2-N1-C1'	7.41	126.59	117.70
46	B	672	U	C6-N1-C2	-7.39	116.57	121.00
1	AS	480	G	N9-C1'-C2'	-7.34	103.92	112.00
46	B	485	G	C6-C5-N7	-7.31	126.01	130.40
46	CM	641	G	N3-C4-N9	-7.30	121.62	126.00
46	B	1375	C	N1-C2-O2	7.29	123.28	118.90
46	CM	505	U	C5'-C4'-O4'	7.22	117.77	109.10
46	CM	1375	C	C2-N1-C1'	7.22	126.74	118.80
1	AS	1252	G	C6-C5-N7	-7.21	126.07	130.40
46	CM	503	A	N9-C1'-C2'	-7.20	104.08	112.00
46	B	724	G	O5'-P-OP2	7.18	119.32	110.70
46	B	724	G	C8-N9-C4	-7.13	103.55	106.40
1	AS	2814	U	C2-N1-C1'	7.10	126.22	117.70
46	CM	725	A	C5'-C4'-C3'	-7.08	104.67	116.00
46	B	724	G	C2-N3-C4	7.07	115.44	111.90
1	1	1237	U	C5'-C4'-O4'	7.02	117.52	109.10
46	B	1672	G	O4'-C1'-N9	7.01	113.81	108.20
1	AS	3167	G	N3-C4-N9	6.97	130.18	126.00
1	AS	1349	U	C2-N1-C1'	6.97	126.06	117.70
1	1	1576	A	C4-C5-N7	6.95	114.18	110.70
1	AS	1262	G	C8-N9-C1'	-6.92	118.00	127.00
46	B	485	G	N7-C8-N9	6.91	116.56	113.10
46	B	1375	C	N3-C2-O2	-6.91	117.06	121.90
1	AS	977	U	C2-N1-C1'	6.88	125.96	117.70
1	AS	1252	G	C4-C5-N7	6.87	113.55	110.80
1	1	481	G	O4'-C1'-N9	6.86	113.69	108.20
46	CM	696	U	O5'-P-OP1	-6.85	99.54	105.70
1	1	482	U	O4'-C1'-N1	6.78	113.62	108.20
46	B	680	C	C2-N1-C1'	-6.76	111.36	118.80
46	B	1375	C	C2-N1-C1'	6.76	126.24	118.80
1	AS	3126	U	C2-N1-C1'	6.74	125.78	117.70
1	1	977	U	C2-N1-C1'	6.73	125.78	117.70
1	AS	2215	C	N3-C2-O2	-6.72	117.19	121.90
1	AS	480	G	C2-N3-C4	6.72	115.26	111.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	B	485	G	C8-N9-C1'	-6.68	118.32	127.00
1	AS	1231	U	N3-C4-O4	6.68	124.08	119.40
46	B	217	A	O4'-C1'-N9	6.66	113.53	108.20
1	AS	2814	U	N1-C2-O2	6.64	127.45	122.80
46	CM	726	C	C6-N1-C2	-6.63	117.65	120.30
46	CM	451	C	N3-C2-O2	-6.63	117.26	121.90
46	B	656	C	C5-C6-N1	6.61	124.31	121.00
1	1	1576	A	C5-N7-C8	-6.61	100.60	103.90
1	1	3160	C	C2-N1-C1'	6.57	126.03	118.80
1	AS	1228	C	C6-N1-C1'	-6.55	112.94	120.80
1	AS	3160	C	C2-N1-C1'	6.54	125.99	118.80
1	AS	487	C	C5-C6-N1	6.53	124.27	121.00
1	AS	1262	G	C4-N9-C1'	6.52	134.98	126.50
1	1	918	U	C2-N1-C1'	6.52	125.52	117.70
1	1	1280	C	C6-N1-C2	-6.50	117.70	120.30
1	AS	1237	U	O4'-C1'-N1	6.49	113.39	108.20
46	CM	721	C	N1-C2-O2	6.47	122.78	118.90
46	CM	504	A	O4'-C1'-N9	-6.46	103.03	108.20
1	1	1237	U	O4'-C1'-N1	6.43	113.34	108.20
1	1	3182	C	C2-N1-C1'	6.42	125.86	118.80
46	B	680	C	O4'-C1'-N1	6.42	113.33	108.20
1	AS	1234	C	C2-N1-C1'	6.40	125.84	118.80
46	CM	1045	U	C2-N1-C1'	6.39	125.37	117.70
46	CM	1234	U	C2-N1-C1'	6.38	125.36	117.70
1	1	1248	A	O4'-C1'-N9	6.38	113.30	108.20
1	AS	1492	C	C2-N1-C1'	6.38	125.82	118.80
1	AS	2215	C	N1-C2-O2	6.37	122.72	118.90
46	CM	217	A	C8-N9-C4	-6.37	103.25	105.80
46	B	1242	U	C2-N1-C1'	6.37	125.34	117.70
46	CM	654	G	C8-N9-C4	-6.37	103.85	106.40
1	1	48	A	O5'-P-OP2	-6.36	99.98	105.70
1	AS	1252	G	N9-C4-C5	-6.35	102.86	105.40
1	AS	2235	C	C2-N1-C1'	6.33	125.76	118.80
1	AS	1349	U	N1-C2-O2	6.32	127.22	122.80
46	B	653	G	O4'-C1'-N9	6.30	113.24	108.20
1	1	3347	U	C2-N1-C1'	6.30	125.26	117.70
46	B	451	C	N3-C2-O2	-6.29	117.50	121.90
1	AS	3182	C	C2-N1-C1'	6.28	125.71	118.80
46	CM	814	A	P-O3'-C3'	6.25	127.21	119.70
46	B	505	U	O5'-P-OP1	6.25	118.20	110.70
46	B	643	U	O4'-C1'-N1	6.25	113.20	108.20
46	B	680	C	C6-N1-C1'	6.22	128.26	120.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	1576	A	N3-C4-N9	6.21	132.37	127.40
1	AS	620	A	N1-C6-N6	6.20	122.32	118.60
46	CM	724	G	O4'-C1'-N9	6.20	113.16	108.20
1	1	1576	A	N1-C6-N6	6.19	122.31	118.60
1	AS	119	G	OP2-P-O3'	-6.18	91.60	105.20
1	1	46	C	O4'-C1'-N1	6.16	113.12	108.20
46	B	681	C	C6-N1-C2	-6.13	117.85	120.30
1	AS	3160	C	C6-N1-C1'	-6.12	113.46	120.80
1	1	2474	C	N1-C2-O2	6.11	122.57	118.90
46	B	1704	C	O4'-C1'-N1	6.11	113.08	108.20
1	AS	119	G	N9-C4-C5	-6.10	102.96	105.40
1	1	2663	A	P-O3'-C3'	6.06	126.97	119.70
46	CM	505	U	O5'-P-OP1	6.05	117.96	110.70
46	CM	846	U	C2-N1-C1'	6.04	124.94	117.70
1	AS	1562	G	C4-N9-C1'	6.03	134.34	126.50
1	AS	918	U	C2-N1-C1'	6.02	124.92	117.70
1	AS	1231	U	C5-C4-O4	-6.01	122.29	125.90
1	AS	918	U	N3-C2-O2	-6.01	117.99	122.20
46	B	561	U	N3-C2-O2	-5.99	118.00	122.20
46	B	671	G	O4'-C1'-N9	5.99	112.99	108.20
46	B	1703	C	OP1-P-O3'	5.97	118.34	105.20
46	CM	1462	C	C2-N1-C1'	5.97	125.37	118.80
46	CM	579	U	C2-N1-C1'	5.96	124.85	117.70
1	1	1019	U	O4'-C1'-N1	5.96	112.97	108.20
1	1	3243	C	N1-C2-O2	5.95	122.47	118.90
1	1	1943	G	OP1-P-O3'	5.94	118.27	105.20
46	B	505	U	P-O3'-C3'	5.94	126.83	119.70
46	B	1703	C	N3-C2-O2	-5.92	117.75	121.90
1	1	1228	C	C6-N1-C2	-5.92	117.93	120.30
1	AS	956	U	C2-N1-C1'	5.92	124.81	117.70
46	B	814	A	P-O3'-C3'	5.92	126.80	119.70
46	CM	648	U	C5-C6-N1	5.90	125.65	122.70
46	B	724	G	N9-C4-C5	5.89	107.76	105.40
46	CM	656	C	C5-C6-N1	5.88	123.94	121.00
1	1	1492	C	C2-N1-C1'	5.87	125.26	118.80
46	B	1234	U	C2-N1-C1'	5.87	124.74	117.70
46	B	1462	C	C2-N1-C1'	5.87	125.25	118.80
1	1	2814	U	N1-C2-O2	5.86	126.90	122.80
46	CM	499	U	P-O3'-C3'	-5.86	112.67	119.70
66	DH	25	LEU	CA-CB-CG	5.85	128.75	115.30
1	1	1224	C	C2-N1-C1'	5.84	125.23	118.80
1	1	2215	C	N3-C2-O2	-5.84	117.81	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	480	U	C6-N1-C2	-5.83	117.50	121.00
1	AS	1347	U	N3-C2-O2	-5.83	118.12	122.20
1	AS	1026	A	C4-N9-C1'	5.81	136.76	126.30
46	B	672	U	C5-C6-N1	5.80	125.60	122.70
46	CM	656	C	C2-N3-C4	5.80	122.80	119.90
1	AS	1260	G	N9-C1'-C2'	5.80	121.53	114.00
46	B	579	U	C2-N1-C1'	5.79	124.64	117.70
1	AS	2484	U	O4'-C1'-N1	5.79	112.83	108.20
1	AS	1558	G	N3-C4-N9	5.78	129.47	126.00
1	AS	487	C	C2-N1-C1'	5.77	125.15	118.80
1	AS	1231	U	O4'-C1'-N1	-5.77	103.58	108.20
1	AS	1026	A	C8-N9-C1'	-5.76	117.33	127.70
1	1	3164	U	OP1-P-O3'	5.74	117.83	105.20
1	AS	1228	C	C5-C6-N1	5.74	123.87	121.00
1	1	2666	A	P-O3'-C3'	5.73	126.58	119.70
46	B	485	G	N3-C4-N9	5.73	129.44	126.00
1	AS	1244	C	C2-N1-C1'	5.73	125.11	118.80
1	AS	3167	G	N9-C4-C5	-5.73	103.11	105.40
1	1	1033	C	C2-N1-C1'	5.71	125.08	118.80
1	AS	918	U	N1-C2-O2	5.71	126.80	122.80
46	CM	576	U	P-O3'-C3'	-5.71	112.85	119.70
46	B	657	C	C2-N1-C1'	5.71	125.08	118.80
46	CM	818	U	N3-C2-O2	-5.69	118.21	122.20
1	1	1576	A	C8-N9-C4	-5.69	103.52	105.80
1	AS	487	C	C2-N3-C4	5.69	122.74	119.90
46	CM	820	U	O4'-C1'-N1	5.68	112.75	108.20
46	B	656	C	N1-C2-O2	5.68	122.31	118.90
50	CQ	216	ASP	CB-CG-OD1	5.67	123.41	118.30
1	1	401	U	C2-N1-C1'	5.67	124.50	117.70
1	1	3160	C	C6-N1-C1'	-5.67	114.00	120.80
46	B	451	C	C6-N1-C1'	-5.67	114.00	120.80
46	CM	700	G	O4'-C1'-N9	5.66	112.73	108.20
1	AS	1217	A	OP2-P-O3'	5.66	117.65	105.20
46	B	1242	U	N3-C2-O2	-5.65	118.24	122.20
46	CM	561	U	N3-C2-O2	-5.64	118.25	122.20
1	1	403	C	O4'-C1'-N1	5.64	112.71	108.20
46	CM	505	U	P-O3'-C3'	5.61	126.43	119.70
1	1	1525	A	C8-N9-C1'	-5.61	117.61	127.70
46	B	721	C	O4'-C1'-N1	5.61	112.69	108.20
1	1	406	G	O4'-C1'-N9	5.60	112.68	108.20
46	CM	656	C	C6-N1-C1'	-5.59	114.09	120.80
1	1	3030	U	C2-N1-C1'	5.58	124.40	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	1347	U	N1-C2-O2	5.58	126.71	122.80
1	1	46	C	C2-N1-C1'	5.57	124.92	118.80
1	AS	1346	U	P-O3'-C3'	5.57	126.38	119.70
46	CM	1362	C	N3-C2-O2	-5.57	118.00	121.90
46	CM	1375	C	C6-N1-C1'	-5.55	114.14	120.80
1	AS	2814	U	N3-C2-O2	-5.55	118.31	122.20
46	B	1433	C	O4'-C1'-N1	5.54	112.64	108.20
46	B	485	G	C4-C5-N7	5.54	113.01	110.80
1	1	112	C	C2-N1-C1'	5.53	124.88	118.80
77	h	159	LEU	CA-CB-CG	5.53	128.01	115.30
46	CM	500	U	P-O3'-C3'	-5.52	113.08	119.70
46	B	1057	C	C2-N1-C1'	5.52	124.87	118.80
46	CM	1444	G	C4-N9-C1'	5.51	133.67	126.50
46	CM	721	C	N3-C2-O2	-5.51	118.04	121.90
1	AS	1562	G	O4'-C1'-N9	-5.51	103.79	108.20
1	AS	1260	G	OP1-P-O3'	-5.50	93.09	105.20
1	1	2807	U	P-O3'-C3'	5.50	126.30	119.70
1	AS	1247	A	O3'-P-O5'	5.50	114.45	104.00
46	CM	1067	C	C2-N1-C1'	5.50	124.85	118.80
1	1	3243	C	N3-C2-O2	-5.49	118.05	121.90
46	CM	654	G	N7-C8-N9	5.49	115.84	113.10
65	V	114	LEU	CA-CB-CG	5.49	127.92	115.30
1	1	1252	G	O4'-C1'-N9	5.48	112.59	108.20
1	AS	1231	U	C2-N1-C1'	5.48	124.28	117.70
1	AS	2509	C	N1-C2-O2	5.47	122.18	118.90
1	1	481	G	C8-N9-C1'	5.47	134.11	127.00
46	B	1237	C	C2-N1-C1'	5.47	124.81	118.80
1	AS	1223	C	N3-C2-O2	-5.47	118.07	121.90
1	1	3182	C	N1-C2-O2	5.47	122.18	118.90
46	CM	723	G	O4'-C1'-N9	5.47	112.57	108.20
46	B	4	C	N1-C2-O2	5.46	122.18	118.90
46	CM	818	U	N1-C2-O2	5.46	126.62	122.80
1	1	3151	C	C2-N1-C1'	5.45	124.80	118.80
1	AS	1349	U	P-O3'-C3'	5.45	126.24	119.70
46	CM	679	C	O4'-C1'-N1	-5.45	103.84	108.20
1	1	1569	C	C2-N1-C1'	5.44	124.79	118.80
1	1	1230	G	C4-N9-C1'	-5.44	119.42	126.50
1	AS	2476	C	P-O3'-C3'	5.44	126.23	119.70
1	AS	2476	C	OP1-P-O3'	5.44	117.16	105.20
1	AS	2519	A	P-O3'-C3'	5.44	126.22	119.70
1	1	1197	C	C2-N1-C1'	5.43	124.78	118.80
1	1	2667	A	C8-N9-C4	-5.43	103.63	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	1327	C	N1-C2-O2	5.42	122.15	118.90
46	B	1444	G	N3-C4-N9	5.41	129.25	126.00
1	1	3245	A	O4'-C1'-N9	5.41	112.53	108.20
1	1	2667	A	C5'-C4'-O4'	-5.41	102.61	109.10
1	1	1943	G	P-O3'-C3'	5.40	126.18	119.70
1	AS	1562	G	C6-C5-N7	-5.40	127.16	130.40
1	1	2474	C	N3-C2-O2	-5.39	118.12	121.90
61	R	80	LEU	CA-CB-CG	5.39	127.70	115.30
46	B	724	G	C8-N9-C1'	5.39	134.01	127.00
1	1	1346	U	P-O3'-C3'	5.39	126.17	119.70
1	1	2235	C	N1-C2-O2	5.39	122.13	118.90
46	CM	678	A	O5'-P-OP1	5.38	117.16	110.70
32	AE	3	LEU	CA-CB-CG	5.37	127.65	115.30
1	AS	1252	G	N3-C4-N9	5.37	129.22	126.00
46	B	1444	G	C4-N9-C1'	5.36	133.47	126.50
1	AS	1638	A	O4'-C1'-N9	-5.36	103.91	108.20
1	AS	831	G	O4'-C1'-N9	5.36	112.49	108.20
46	B	1067	C	C2-N1-C1'	5.36	124.69	118.80
46	CM	701	G	N3-C4-C5	5.35	131.28	128.60
1	1	1262	G	C4-N9-C1'	5.35	133.45	126.50
46	B	879	U	N3-C2-O2	-5.34	118.46	122.20
46	CM	819	G	C4-N9-C1'	5.34	133.44	126.50
46	CM	451	C	C6-N1-C1'	-5.33	114.40	120.80
1	1	481	G	C4-N9-C1'	-5.33	119.57	126.50
46	CM	608	G	C4-N9-C1'	5.33	133.43	126.50
46	CM	674	C	C5-C6-N1	5.33	123.66	121.00
1	1	1251	C	O4'-C1'-N1	5.33	112.46	108.20
1	AS	3126	U	N1-C2-O2	5.33	126.53	122.80
46	B	1231	C	N1-C2-O2	5.32	122.09	118.90
46	CM	1375	C	N1-C2-O2	5.32	122.09	118.90
1	1	486	C	O4'-C1'-N1	5.30	112.44	108.20
46	CM	701	G	C8-N9-C1'	5.30	133.89	127.00
1	AS	1223	C	N1-C2-O2	5.30	122.08	118.90
1	1	1244	C	C2-N1-C1'	5.30	124.63	118.80
46	B	1327	C	N1-C2-O2	5.30	122.08	118.90
46	B	1067	C	N1-C2-O2	5.29	122.08	118.90
3	4	39	G	O4'-C1'-N9	5.29	112.43	108.20
1	AS	446	U	C5-C6-N1	5.28	125.34	122.70
1	1	1230	G	C8-N9-C1'	5.27	133.86	127.00
46	CM	721	C	C6-N1-C2	-5.27	118.19	120.30
1	AS	1562	G	N7-C8-N9	5.27	115.73	113.10
1	AS	2482	U	C2-N1-C1'	5.26	124.02	117.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	956	U	C2-N1-C1'	5.26	124.01	117.70
3	AU	155	G	O4'-C1'-N9	5.26	112.41	108.20
46	B	723	G	C4-N9-C1'	-5.26	119.67	126.50
1	AS	1247	A	P-O3'-C3'	5.25	126.00	119.70
1	1	2519	A	P-O3'-C3'	5.25	125.99	119.70
46	B	673	A	C8-N9-C4	-5.24	103.70	105.80
1	1	1012	U	OP2-P-O3'	5.24	116.73	105.20
1	1	1576	A	C5-C6-N6	-5.24	119.51	123.70
46	B	1457	A	C8-N9-C4	-5.24	103.71	105.80
46	B	1698	U	C5-C6-N1	5.24	125.32	122.70
60	Q	119	ASP	CB-CA-C	-5.24	99.93	110.40
46	B	679	C	O4'-C1'-N1	5.23	112.39	108.20
46	CM	669	G	N1-C6-O6	-5.23	116.76	119.90
1	1	1099	A	OP2-P-O3'	5.23	116.71	105.20
46	B	1327	C	C2-N1-C1'	5.23	124.55	118.80
46	B	682	A	N9-C4-C5	-5.22	103.71	105.80
46	CM	1067	C	N1-C2-O2	5.21	122.03	118.90
46	B	879	U	N1-C2-O2	5.20	126.44	122.80
1	AS	1552	C	C2-N1-C1'	5.20	124.52	118.80
1	AS	2433	U	C2-N1-C1'	5.20	123.93	117.70
1	AS	1563	A	O4'-C1'-N9	5.19	112.35	108.20
46	CM	818	U	C2-N1-C1'	5.19	123.93	117.70
1	AS	1559	C	C2-N1-C1'	5.19	124.50	118.80
46	B	1672	G	C8-N9-C1'	5.18	133.74	127.00
1	AS	3160	C	OP1-P-O3'	5.18	116.61	105.20
1	1	1228	C	C2-N1-C1'	5.17	124.49	118.80
1	AS	1349	U	C6-N1-C1'	-5.17	113.96	121.20
46	CM	696	U	C6-N1-C2	-5.17	117.90	121.00
50	CQ	183	LEU	CA-CB-CG	5.17	127.19	115.30
1	1	1019	U	C6-N1-C2	-5.17	117.90	121.00
1	1	1569	C	C6-N1-C1'	-5.17	114.60	120.80
1	1	1020	G	O5'-P-OP2	-5.16	101.06	105.70
1	1	2515	G	P-O3'-C3'	5.16	125.89	119.70
1	AS	1099	A	OP2-P-O3'	5.16	116.54	105.20
1	1	2968	U	C2-N1-C1'	5.15	123.88	117.70
1	1	1576	A	N9-C4-C5	-5.14	103.74	105.80
1	1	1197	C	N1-C2-O2	5.14	121.98	118.90
1	AS	1253	C	N1-C2-O2	5.14	121.98	118.90
1	1	2215	C	N1-C2-O2	5.13	121.98	118.90
46	CM	669	G	C5-C6-O6	5.13	131.68	128.60
77	DS	177	MET	CA-CB-CG	5.13	122.03	113.30
46	B	579	U	N1-C2-O2	5.13	126.39	122.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	B	579	U	N3-C2-O2	-5.13	118.61	122.20
46	CM	500	U	C5'-C4'-O4'	5.13	115.26	109.10
1	1	989	G	O4'-C1'-N9	5.13	112.30	108.20
1	AS	437	G	N3-C4-N9	-5.13	122.92	126.00
46	CM	656	C	N3-C4-C5	-5.12	119.85	121.90
46	CM	725	A	O5'-C5'-C4'	-5.12	101.97	111.70
1	1	2814	U	C6-N1-C1'	-5.12	114.03	121.20
1	AS	1244	C	C5-C6-N1	5.11	123.56	121.00
46	CM	575	G	C4-N9-C1'	5.11	133.15	126.50
46	B	698	C	O4'-C1'-N1	5.11	112.28	108.20
1	AS	451	C	C2-N1-C1'	5.11	124.42	118.80
46	CM	652	C	C5-C6-N1	5.11	123.55	121.00
46	B	1364	U	C2-N1-C1'	5.10	123.81	117.70
46	B	824	U	P-O5'-C5'	-5.09	112.75	120.90
46	B	1242	U	C6-N1-C2	-5.09	117.94	121.00
1	AS	3182	C	N1-C2-O2	5.09	121.95	118.90
46	CM	1237	C	C2-N1-C1'	5.09	124.40	118.80
1	AS	1220	C	C6-N1-C2	-5.09	118.27	120.30
1	AS	1277	G	C8-N9-C1'	-5.09	120.39	127.00
1	1	3347	U	N1-C2-O2	5.08	126.36	122.80
1	1	1638	A	O4'-C1'-N9	-5.08	104.14	108.20
1	AS	1197	C	C2-N1-C1'	5.07	124.38	118.80
1	1	3321	G	O5'-P-OP1	-5.07	101.14	105.70
79	CZ	78	LEU	CA-CB-CG	5.07	126.95	115.30
1	AS	3243	C	N1-C2-O2	5.06	121.94	118.90
1	1	1253	C	C2-N1-C1'	5.06	124.37	118.80
1	AS	1252	G	N3-C2-N2	5.06	123.44	119.90
1	1	3151	C	O4'-C1'-N1	5.06	112.25	108.20
1	AS	1277	G	C4-N9-C1'	5.06	133.07	126.50
1	AS	3134	C	C2-N1-C1'	5.05	124.36	118.80
46	CM	498	C	O4'-C1'-N1	5.05	112.24	108.20
1	1	977	U	O4'-C1'-N1	5.05	112.24	108.20
46	CM	701	G	N9-C4-C5	5.05	107.42	105.40
46	B	451	C	C6-N1-C2	-5.05	118.28	120.30
1	AS	1237	U	C5'-C4'-O4'	5.05	115.16	109.10
1	1	1573	C	C2-N1-C1'	5.05	124.35	118.80
46	B	488	C	C6-N1-C2	-5.04	118.28	120.30
1	AS	3030	U	C2-N1-C1'	5.04	123.75	117.70
1	1	977	U	C6-N1-C1'	-5.04	114.14	121.20
1	1	1525	A	C4-N9-C1'	5.04	135.37	126.30
46	B	682	A	C6-C5-N7	-5.04	128.77	132.30
1	AS	2419	A	N9-C4-C5	5.04	107.82	105.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	4	C	C2-N1-C1'	5.04	124.34	118.80
1	AS	1347	U	N1-C2-O2	5.03	126.32	122.80
79	O	59	LEU	CB-CG-CD2	5.03	119.56	111.00
1	AS	2433	U	N1-C2-O2	5.03	126.32	122.80
46	CM	482	C	O4'-C1'-N1	5.03	112.22	108.20
1	1	1552	C	C2-N1-C1'	5.02	124.33	118.80
46	B	1672	G	C4-C5-N7	-5.02	108.79	110.80
1	1	483	U	O4'-C1'-N1	5.02	112.22	108.20
46	B	1703	C	N1-C2-O2	5.02	121.91	118.90
1	AS	2483	U	C2-N1-C1'	5.02	123.72	117.70
1	1	376	G	O4'-C1'-N9	5.02	112.21	108.20
1	AS	3245	A	O4'-C1'-N9	5.02	112.21	108.20
46	CM	1444	G	C8-N9-C1'	-5.01	120.48	127.00
46	B	213	A	C8-N9-C4	-5.01	103.80	105.80
1	1	1021	A	C8-N9-C4	-5.00	103.80	105.80
46	CM	451	C	C6-N1-C2	-5.00	118.30	120.30

There are no chirality outliers.

There are no planarity outliers.

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	AW	247/254 (97%)	239 (97%)	8 (3%)	0	100	100
4	j	247/254 (97%)	239 (97%)	8 (3%)	0	100	100
5	AX	384/389 (99%)	371 (97%)	13 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	k	385/389 (99%)	372 (97%)	13 (3%)	0	100	100
6	AY	359/363 (99%)	349 (97%)	10 (3%)	0	100	100
6	l	359/363 (99%)	348 (97%)	11 (3%)	0	100	100
7	AZ	290/298 (97%)	278 (96%)	12 (4%)	0	100	100
7	m	294/298 (99%)	282 (96%)	12 (4%)	0	100	100
8	BA	149/176 (85%)	147 (99%)	2 (1%)	0	100	100
8	n	153/176 (87%)	150 (98%)	3 (2%)	0	100	100
9	BB	232/241 (96%)	226 (97%)	5 (2%)	1 (0%)	30	64
9	o	229/241 (95%)	222 (97%)	6 (3%)	1 (0%)	30	64
10	BC	231/262 (88%)	219 (95%)	10 (4%)	2 (1%)	14	49
10	p	236/262 (90%)	227 (96%)	8 (3%)	1 (0%)	30	64
11	BD	188/191 (98%)	181 (96%)	7 (4%)	0	100	100
11	q	188/191 (98%)	184 (98%)	4 (2%)	0	100	100
12	BE	204/220 (93%)	199 (98%)	5 (2%)	0	100	100
12	r	204/220 (93%)	201 (98%)	3 (2%)	0	100	100
13	BF	169/174 (97%)	162 (96%)	7 (4%)	0	100	100
13	s	169/174 (97%)	161 (95%)	8 (5%)	0	100	100
14	BG	198/202 (98%)	194 (98%)	4 (2%)	0	100	100
14	t	198/202 (98%)	196 (99%)	2 (1%)	0	100	100
15	BH	128/131 (98%)	124 (97%)	4 (3%)	0	100	100
15	u	128/131 (98%)	125 (98%)	3 (2%)	0	100	100
16	BI	201/204 (98%)	198 (98%)	3 (2%)	0	100	100
16	v	201/204 (98%)	197 (98%)	4 (2%)	0	100	100
17	BJ	197/200 (98%)	195 (99%)	2 (1%)	0	100	100
17	w	197/200 (98%)	195 (99%)	2 (1%)	0	100	100
18	BK	172/185 (93%)	167 (97%)	5 (3%)	0	100	100
18	x	169/185 (91%)	166 (98%)	3 (2%)	0	100	100
19	BL	183/186 (98%)	179 (98%)	4 (2%)	0	100	100
19	y	183/186 (98%)	179 (98%)	4 (2%)	0	100	100
20	BM	177/190 (93%)	173 (98%)	4 (2%)	0	100	100
20	z	177/190 (93%)	174 (98%)	3 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
21	0	168/172 (98%)	166 (99%)	2 (1%)	0	100	100
21	BN	168/172 (98%)	166 (99%)	2 (1%)	0	100	100
22	2	157/160 (98%)	154 (98%)	3 (2%)	0	100	100
22	BO	157/160 (98%)	154 (98%)	3 (2%)	0	100	100
23	5	101/124 (82%)	95 (94%)	5 (5%)	1 (1%)	13	47
23	BP	101/124 (82%)	88 (87%)	11 (11%)	2 (2%)	6	32
24	6	129/137 (94%)	126 (98%)	3 (2%)	0	100	100
24	BQ	129/137 (94%)	126 (98%)	3 (2%)	0	100	100
25	7	114/155 (74%)	102 (90%)	11 (10%)	1 (1%)	14	49
25	BR	94/155 (61%)	90 (96%)	4 (4%)	0	100	100
26	8	118/142 (83%)	116 (98%)	2 (2%)	0	100	100
26	BS	117/142 (82%)	115 (98%)	2 (2%)	0	100	100
27	9	124/127 (98%)	123 (99%)	1 (1%)	0	100	100
27	BT	124/127 (98%)	123 (99%)	1 (1%)	0	100	100
28	AA	133/136 (98%)	132 (99%)	1 (1%)	0	100	100
28	BU	133/136 (98%)	131 (98%)	2 (2%)	0	100	100
29	AB	146/149 (98%)	138 (94%)	8 (6%)	0	100	100
29	BV	146/149 (98%)	139 (95%)	7 (5%)	0	100	100
30	AC	57/63 (90%)	54 (95%)	1 (2%)	2 (4%)	3	20
30	BW	59/63 (94%)	58 (98%)	1 (2%)	0	100	100
31	AD	94/106 (89%)	93 (99%)	1 (1%)	0	100	100
31	BX	94/106 (89%)	92 (98%)	2 (2%)	0	100	100
32	AE	108/112 (96%)	106 (98%)	2 (2%)	0	100	100
32	BY	108/112 (96%)	103 (95%)	3 (3%)	2 (2%)	6	34
33	AF	122/131 (93%)	122 (100%)	0	0	100	100
33	BZ	122/131 (93%)	122 (100%)	0	0	100	100
34	AG	104/107 (97%)	102 (98%)	2 (2%)	0	100	100
34	CA	104/107 (97%)	102 (98%)	2 (2%)	0	100	100
35	AH	110/122 (90%)	108 (98%)	2 (2%)	0	100	100
35	CB	110/122 (90%)	107 (97%)	3 (3%)	0	100	100
36	AI	118/120 (98%)	114 (97%)	4 (3%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	CC	116/120 (97%)	114 (98%)	2 (2%)	0	100	100
37	AJ	93/99 (94%)	92 (99%)	1 (1%)	0	100	100
37	CD	95/99 (96%)	94 (99%)	1 (1%)	0	100	100
38	AK	84/90 (93%)	81 (96%)	3 (4%)	0	100	100
38	CE	84/90 (93%)	81 (96%)	3 (4%)	0	100	100
39	AL	75/78 (96%)	70 (93%)	5 (7%)	0	100	100
39	CF	75/78 (96%)	67 (89%)	8 (11%)	0	100	100
40	AM	48/51 (94%)	46 (96%)	1 (2%)	1 (2%)	5	31
40	CG	48/51 (94%)	46 (96%)	2 (4%)	0	100	100
41	AN	50/52 (96%)	49 (98%)	1 (2%)	0	100	100
41	CH	49/52 (94%)	45 (92%)	1 (2%)	3 (6%)	1	9
42	AO	23/25 (92%)	22 (96%)	1 (4%)	0	100	100
42	CI	22/25 (88%)	22 (100%)	0	0	100	100
43	AP	101/106 (95%)	100 (99%)	1 (1%)	0	100	100
43	CJ	101/106 (95%)	100 (99%)	1 (1%)	0	100	100
44	AQ	89/92 (97%)	85 (96%)	4 (4%)	0	100	100
44	CK	89/92 (97%)	85 (96%)	4 (4%)	0	100	100
45	CL	117/267 (44%)	91 (78%)	23 (20%)	3 (3%)	4	27
45	i	117/267 (44%)	93 (80%)	20 (17%)	4 (3%)	3	21
47	C	206/261 (79%)	201 (98%)	5 (2%)	0	100	100
47	CN	206/261 (79%)	198 (96%)	8 (4%)	0	100	100
48	CO	212/256 (83%)	204 (96%)	8 (4%)	0	100	100
48	D	212/256 (83%)	207 (98%)	5 (2%)	0	100	100
49	CP	215/249 (86%)	209 (97%)	6 (3%)	0	100	100
49	E	215/249 (86%)	210 (98%)	5 (2%)	0	100	100
50	CQ	221/251 (88%)	211 (96%)	10 (4%)	0	100	100
50	F	221/251 (88%)	213 (96%)	8 (4%)	0	100	100
51	CR	258/262 (98%)	251 (97%)	7 (3%)	0	100	100
51	G	257/262 (98%)	253 (98%)	4 (2%)	0	100	100
52	CS	204/225 (91%)	197 (97%)	7 (3%)	0	100	100
52	H	204/225 (91%)	193 (95%)	11 (5%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
53	CT	234/236 (99%)	230 (98%)	4 (2%)	0	100	100
53	I	224/236 (95%)	220 (98%)	4 (2%)	0	100	100
54	CU	181/186 (97%)	171 (94%)	9 (5%)	1 (1%)	22	57
54	J	183/186 (98%)	171 (93%)	12 (7%)	0	100	100
55	CV	201/206 (98%)	199 (99%)	2 (1%)	0	100	100
55	K	201/206 (98%)	200 (100%)	1 (0%)	0	100	100
56	CW	176/189 (93%)	175 (99%)	1 (1%)	0	100	100
56	L	176/189 (93%)	175 (99%)	1 (1%)	0	100	100
57	CX	92/118 (78%)	86 (94%)	6 (6%)	0	100	100
57	M	90/118 (76%)	78 (87%)	12 (13%)	0	100	100
58	CY	139/155 (90%)	133 (96%)	5 (4%)	1 (1%)	19	54
58	N	142/155 (92%)	137 (96%)	5 (4%)	0	100	100
59	DA	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
59	P	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
60	DB	125/132 (95%)	120 (96%)	4 (3%)	1 (1%)	16	51
60	Q	125/132 (95%)	119 (95%)	5 (4%)	1 (1%)	16	51
61	DC	128/142 (90%)	108 (84%)	20 (16%)	0	100	100
61	R	127/142 (89%)	115 (91%)	11 (9%)	1 (1%)	16	51
62	DD	138/142 (97%)	134 (97%)	4 (3%)	0	100	100
62	S	138/142 (97%)	133 (96%)	4 (3%)	1 (1%)	19	54
63	DE	122/137 (89%)	119 (98%)	3 (2%)	0	100	100
63	T	122/137 (89%)	118 (97%)	4 (3%)	0	100	100
64	DF	139/145 (96%)	132 (95%)	6 (4%)	1 (1%)	19	54
64	U	142/145 (98%)	137 (96%)	5 (4%)	0	100	100
65	DG	139/145 (96%)	133 (96%)	5 (4%)	1 (1%)	19	54
65	V	139/145 (96%)	136 (98%)	3 (2%)	0	100	100
66	DH	95/119 (80%)	93 (98%)	2 (2%)	0	100	100
66	W	100/119 (84%)	97 (97%)	3 (3%)	0	100	100
67	DI	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
67	X	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
68	DJ	127/130 (98%)	125 (98%)	2 (2%)	0	100	100

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Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
68	Y	127/130 (98%)	125 (98%)	2 (2%)	0	100	100
69	DK	141/145 (97%)	139 (99%)	2 (1%)	0	100	100
69	Z	141/145 (97%)	138 (98%)	3 (2%)	0	100	100
70	DL	130/135 (96%)	130 (100%)	0	0	100	100
70	a	132/135 (98%)	130 (98%)	2 (2%)	0	100	100
71	DM	69/105 (66%)	64 (93%)	5 (7%)	0	100	100
71	b	70/105 (67%)	69 (99%)	1 (1%)	0	100	100
72	DN	96/119 (81%)	94 (98%)	2 (2%)	0	100	100
72	c	96/119 (81%)	94 (98%)	2 (2%)	0	100	100
73	DO	79/82 (96%)	73 (92%)	6 (8%)	0	100	100
73	d	79/82 (96%)	75 (95%)	4 (5%)	0	100	100
74	DP	59/67 (88%)	52 (88%)	7 (12%)	0	100	100
74	e	60/67 (90%)	57 (95%)	3 (5%)	0	100	100
75	DQ	52/56 (93%)	50 (96%)	2 (4%)	0	100	100
75	f	53/56 (95%)	51 (96%)	2 (4%)	0	100	100
76	DR	56/63 (89%)	50 (89%)	6 (11%)	0	100	100
76	g	58/63 (92%)	55 (95%)	3 (5%)	0	100	100
77	DS	68/193 (35%)	57 (84%)	10 (15%)	1 (2%)	8	38
77	h	68/193 (35%)	54 (79%)	13 (19%)	1 (2%)	8	38
78	AR	309/317 (98%)	292 (94%)	16 (5%)	1 (0%)	37	69
78	DT	309/317 (98%)	284 (92%)	23 (7%)	2 (1%)	22	57
79	CZ	117/143 (82%)	89 (76%)	23 (20%)	5 (4%)	2	16
79	O	37/143 (26%)	32 (86%)	5 (14%)	0	100	100
80	P0	105/312 (34%)	81 (77%)	20 (19%)	4 (4%)	2	18
80	p0	55/312 (18%)	34 (62%)	19 (34%)	2 (4%)	3	20
81	12	60/165 (36%)	37 (62%)	23 (38%)	0	100	100
82	L1	215/217 (99%)	163 (76%)	48 (22%)	4 (2%)	6	34
82	l1	207/217 (95%)	118 (57%)	80 (39%)	9 (4%)	2	16
All	All	22661/25499 (89%)	21655 (96%)	945 (4%)	61 (0%)	37	69

All (61) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
10	p	205	ASN
30	AC	21	ILE
40	AM	49	LEU
45	i	55	LYS
45	i	64	LEU
60	Q	119	ASP
77	h	161	ARG
10	BC	125	ASP
41	CH	3	GLU
45	CL	43	PRO
45	CL	72	ASP
79	CZ	82	PRO
79	CZ	112	ALA
64	DF	57	ARG
65	DG	119	LYS
78	DT	75	SER
80	P0	24	SER
80	P0	71	PRO
80	P0	72	GLU
82	L1	45	ARG
82	l1	71	ALA
82	l1	74	VAL
82	l1	129	SER
82	l1	157	PHE
82	l1	179	LEU
82	l1	212	PRO
80	p0	46	ARG
45	i	63	ALA
61	R	2	VAL
32	BY	83	ASP
41	CH	4	PRO
58	CY	26	LYS
79	CZ	34	THR
78	DT	28	ALA
82	L1	56	PRO
82	L1	212	PRO
82	l1	59	PRO
82	l1	87	VAL
82	l1	180	VAL
80	p0	41	ILE
23	5	20	ALA
9	BB	230	GLU
10	BC	128	PRO

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Mol	Chain	Res	Type
23	BP	20	ALA
32	BY	110	ASP
79	CZ	108	ARG
60	DB	119	ASP
80	P0	102	SER
82	L1	59	PRO
23	BP	24	GLU
79	CZ	103	LEU
77	DS	126	VAL
78	AR	203	PRO
41	CH	6	LEU
45	CL	48	PRO
54	CU	156	THR
9	o	230	GLU
30	AC	3	LYS
45	i	44	ALA
62	S	40	PRO
25	7	98	PRO

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	AW	190/194 (98%)	188 (99%)	2 (1%)	70	86
4	j	190/194 (98%)	189 (100%)	1 (0%)	86	93
5	AX	325/328 (99%)	323 (99%)	2 (1%)	84	92
5	k	326/328 (99%)	325 (100%)	1 (0%)	91	96
6	AY	290/292 (99%)	287 (99%)	3 (1%)	73	87
6	l	290/292 (99%)	288 (99%)	2 (1%)	81	92
7	AZ	247/252 (98%)	244 (99%)	3 (1%)	67	85
7	m	250/252 (99%)	249 (100%)	1 (0%)	89	94
8	BA	132/154 (86%)	132 (100%)	0	100	100
8	n	136/154 (88%)	135 (99%)	1 (1%)	81	92

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
9	BB	198/204 (97%)	198 (100%)	0	100	100
9	o	195/204 (96%)	194 (100%)	1 (0%)	86	93
10	BC	193/216 (89%)	190 (98%)	3 (2%)	58	79
10	p	198/216 (92%)	197 (100%)	1 (0%)	86	93
11	BD	169/170 (99%)	169 (100%)	0	100	100
11	q	169/170 (99%)	168 (99%)	1 (1%)	84	92
12	BE	178/186 (96%)	177 (99%)	1 (1%)	84	92
12	r	178/186 (96%)	176 (99%)	2 (1%)	70	86
13	BF	146/149 (98%)	144 (99%)	2 (1%)	62	82
13	s	146/149 (98%)	144 (99%)	2 (1%)	62	82
14	BG	166/168 (99%)	164 (99%)	2 (1%)	67	85
14	t	166/168 (99%)	165 (99%)	1 (1%)	84	92
15	BH	108/109 (99%)	107 (99%)	1 (1%)	75	89
15	u	108/109 (99%)	108 (100%)	0	100	100
16	BI	177/178 (99%)	176 (99%)	1 (1%)	84	92
16	v	177/178 (99%)	176 (99%)	1 (1%)	84	92
17	BJ	166/167 (99%)	166 (100%)	0	100	100
17	w	166/167 (99%)	166 (100%)	0	100	100
18	BK	145/154 (94%)	142 (98%)	3 (2%)	48	74
18	x	144/154 (94%)	144 (100%)	0	100	100
19	BL	153/154 (99%)	153 (100%)	0	100	100
19	y	153/154 (99%)	153 (100%)	0	100	100
20	BM	146/153 (95%)	142 (97%)	4 (3%)	40	69
20	z	146/153 (95%)	146 (100%)	0	100	100
21	0	155/157 (99%)	154 (99%)	1 (1%)	84	92
21	BN	155/157 (99%)	155 (100%)	0	100	100
22	2	133/134 (99%)	133 (100%)	0	100	100
22	BO	133/134 (99%)	132 (99%)	1 (1%)	79	90
23	5	93/112 (83%)	93 (100%)	0	100	100
23	BP	94/112 (84%)	90 (96%)	4 (4%)	25	57
24	6	101/104 (97%)	101 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
24	BQ	101/104 (97%)	101 (100%)	0	100	100
25	7	97/127 (76%)	95 (98%)	2 (2%)	48	74
25	BR	86/127 (68%)	84 (98%)	2 (2%)	45	72
26	8	107/121 (88%)	105 (98%)	2 (2%)	52	76
26	BS	107/121 (88%)	107 (100%)	0	100	100
27	9	111/112 (99%)	110 (99%)	1 (1%)	75	89
27	BT	111/112 (99%)	110 (99%)	1 (1%)	75	89
28	AA	117/118 (99%)	117 (100%)	0	100	100
28	BU	117/118 (99%)	116 (99%)	1 (1%)	75	89
29	AB	120/121 (99%)	120 (100%)	0	100	100
29	BV	120/121 (99%)	120 (100%)	0	100	100
30	AC	46/49 (94%)	46 (100%)	0	100	100
30	BW	48/49 (98%)	48 (100%)	0	100	100
31	AD	81/90 (90%)	81 (100%)	0	100	100
31	BX	81/90 (90%)	81 (100%)	0	100	100
32	AE	98/100 (98%)	97 (99%)	1 (1%)	73	87
32	BY	98/100 (98%)	98 (100%)	0	100	100
33	AF	109/115 (95%)	109 (100%)	0	100	100
33	BZ	110/115 (96%)	110 (100%)	0	100	100
34	AG	91/92 (99%)	90 (99%)	1 (1%)	70	86
34	CA	91/92 (99%)	91 (100%)	0	100	100
35	AH	95/102 (93%)	93 (98%)	2 (2%)	48	74
35	CB	95/102 (93%)	95 (100%)	0	100	100
36	AI	106/106 (100%)	105 (99%)	1 (1%)	75	89
36	CC	105/106 (99%)	103 (98%)	2 (2%)	52	76
37	AJ	75/79 (95%)	75 (100%)	0	100	100
37	CD	77/79 (98%)	77 (100%)	0	100	100
38	AK	70/73 (96%)	70 (100%)	0	100	100
38	CE	70/73 (96%)	70 (100%)	0	100	100
39	AL	68/69 (99%)	68 (100%)	0	100	100
39	CF	68/69 (99%)	68 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
40	AM	46/47 (98%)	46 (100%)	0	100	100
40	CG	46/47 (98%)	45 (98%)	1 (2%)	47	73
41	AN	47/47 (100%)	47 (100%)	0	100	100
41	CH	46/47 (98%)	45 (98%)	1 (2%)	47	73
42	AO	24/24 (100%)	22 (92%)	2 (8%)	9	35
42	CI	23/24 (96%)	22 (96%)	1 (4%)	25	57
43	AP	88/91 (97%)	88 (100%)	0	100	100
43	CJ	88/91 (97%)	87 (99%)	1 (1%)	70	86
44	AQ	72/73 (99%)	72 (100%)	0	100	100
44	CK	72/73 (99%)	72 (100%)	0	100	100
45	CL	100/212 (47%)	99 (99%)	1 (1%)	73	87
45	i	100/212 (47%)	99 (99%)	1 (1%)	73	87
47	C	176/215 (82%)	175 (99%)	1 (1%)	84	92
47	CN	176/215 (82%)	174 (99%)	2 (1%)	70	86
48	CO	194/229 (85%)	192 (99%)	2 (1%)	73	87
48	D	194/229 (85%)	193 (100%)	1 (0%)	86	93
49	CP	175/198 (88%)	173 (99%)	2 (1%)	70	86
49	E	175/198 (88%)	175 (100%)	0	100	100
50	CQ	174/196 (89%)	171 (98%)	3 (2%)	56	78
50	F	174/196 (89%)	172 (99%)	2 (1%)	70	86
51	CR	218/220 (99%)	217 (100%)	1 (0%)	86	93
51	G	218/220 (99%)	217 (100%)	1 (0%)	86	93
52	CS	178/197 (90%)	175 (98%)	3 (2%)	56	78
52	H	178/197 (90%)	176 (99%)	2 (1%)	70	86
53	CT	204/204 (100%)	202 (99%)	2 (1%)	73	87
53	I	195/204 (96%)	191 (98%)	4 (2%)	48	74
54	CU	164/167 (98%)	163 (99%)	1 (1%)	84	92
54	J	166/167 (99%)	166 (100%)	0	100	100
55	CV	157/160 (98%)	157 (100%)	0	100	100
55	K	157/160 (98%)	156 (99%)	1 (1%)	84	92
56	CW	153/160 (96%)	153 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
56	L	153/160 (96%)	153 (100%)	0	100	100
57	CX	88/104 (85%)	88 (100%)	0	100	100
57	M	86/104 (83%)	86 (100%)	0	100	100
58	CY	122/134 (91%)	121 (99%)	1 (1%)	79	90
58	N	124/134 (92%)	122 (98%)	2 (2%)	58	79
59	DA	129/130 (99%)	128 (99%)	1 (1%)	79	90
59	P	129/130 (99%)	129 (100%)	0	100	100
60	DB	97/102 (95%)	97 (100%)	0	100	100
60	Q	97/102 (95%)	94 (97%)	3 (3%)	35	66
61	DC	112/121 (93%)	110 (98%)	2 (2%)	54	77
61	R	111/121 (92%)	109 (98%)	2 (2%)	54	77
62	DD	114/116 (98%)	113 (99%)	1 (1%)	75	89
62	S	114/116 (98%)	112 (98%)	2 (2%)	54	77
63	DE	112/122 (92%)	112 (100%)	0	100	100
63	T	112/122 (92%)	110 (98%)	2 (2%)	54	77
64	DF	125/129 (97%)	123 (98%)	2 (2%)	58	79
64	U	128/129 (99%)	126 (98%)	2 (2%)	58	79
65	DG	113/117 (97%)	113 (100%)	0	100	100
65	V	113/117 (97%)	113 (100%)	0	100	100
66	DH	87/105 (83%)	85 (98%)	2 (2%)	45	72
66	W	92/105 (88%)	89 (97%)	3 (3%)	33	64
67	DI	71/71 (100%)	70 (99%)	1 (1%)	62	82
67	X	71/71 (100%)	71 (100%)	0	100	100
68	DJ	112/113 (99%)	111 (99%)	1 (1%)	75	89
68	Y	112/113 (99%)	112 (100%)	0	100	100
69	DK	116/118 (98%)	114 (98%)	2 (2%)	56	78
69	Z	116/118 (98%)	116 (100%)	0	100	100
70	DL	109/112 (97%)	109 (100%)	0	100	100
70	a	111/112 (99%)	110 (99%)	1 (1%)	75	89
71	DM	63/85 (74%)	62 (98%)	1 (2%)	58	79
71	b	64/85 (75%)	64 (100%)	0	100	100

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Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
72	DN	84/102 (82%)	84 (100%)	0	100	100
72	c	84/102 (82%)	82 (98%)	2 (2%)	44	71
73	DO	72/73 (99%)	72 (100%)	0	100	100
73	d	72/73 (99%)	71 (99%)	1 (1%)	62	82
74	DP	53/58 (91%)	53 (100%)	0	100	100
74	e	54/58 (93%)	54 (100%)	0	100	100
75	DQ	47/48 (98%)	46 (98%)	1 (2%)	48	74
75	f	47/48 (98%)	46 (98%)	1 (2%)	48	74
76	DR	50/54 (93%)	47 (94%)	3 (6%)	16	48
76	g	51/54 (94%)	49 (96%)	2 (4%)	27	60
77	DS	62/175 (35%)	57 (92%)	5 (8%)	9	36
77	h	62/175 (35%)	60 (97%)	2 (3%)	34	65
78	AR	259/263 (98%)	258 (100%)	1 (0%)	89	94
78	DT	259/263 (98%)	255 (98%)	4 (2%)	60	81
79	CZ	101/123 (82%)	99 (98%)	2 (2%)	50	75
79	O	34/123 (28%)	34 (100%)	0	100	100
80	P0	92/247 (37%)	86 (94%)	6 (6%)	14	45
80	p0	52/247 (21%)	50 (96%)	2 (4%)	28	60
81	12	52/137 (38%)	47 (90%)	5 (10%)	7	28
82	L1	196/196 (100%)	187 (95%)	9 (5%)	23	56
82	l1	190/196 (97%)	178 (94%)	12 (6%)	15	46
All	All	19461/21471 (91%)	19272 (99%)	189 (1%)	73	87

All (189) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
4	j	204	MET
5	k	386	ASP
6	l	99	ARG
6	l	121	TYR
7	m	7	PHE
8	n	166	LYS
9	o	198	ASN
10	p	27	LEU
11	q	106	LYS

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Mol	Chain	Res	Type
12	r	21	ARG
12	r	92	HIS
13	s	13	ARG
13	s	68	HIS
14	t	4	SER
16	v	178	HIS
21	0	113	ARG
25	7	56	ARG
25	7	80	ARG
26	8	43	SER
26	8	138	ARG
27	9	3	LYS
32	AE	16	HIS
34	AG	92	LYS
35	AH	4	ARG
35	AH	67	LYS
36	AI	1	MET
42	AO	2	ARG
42	AO	15	ARG
45	i	82	LYS
47	C	18	LEU
48	D	158	SER
50	F	77	ARG
50	F	167	ASP
51	G	257	ARG
52	H	116	HIS
52	H	157	ARG
53	I	25	ARG
53	I	81	HIS
53	I	116	GLN
53	I	193	LYS
55	K	125	LYS
58	N	46	LYS
58	N	67	ARG
60	Q	119	ASP
60	Q	120	SER
60	Q	121	THR
61	R	28	MET
61	R	97	TYR
62	S	39	GLN
62	S	42	ILE
63	T	78	ARG

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Mol	Chain	Res	Type
63	T	80	ARG
64	U	138	THR
64	U	139	LYS
66	W	51	LYS
66	W	88	ARG
66	W	100	LYS
70	a	135	ASP
72	c	5	ARG
72	c	89	ARG
73	d	8	LEU
75	f	40	ARG
76	g	49	LEU
76	g	50	THR
77	h	168	CYS
77	h	177	MET
78	AR	121	ARG
4	AW	142	ASP
4	AW	159	SER
5	AX	226	PHE
5	AX	272	TYR
6	AY	59	HIS
6	AY	99	ARG
6	AY	145	GLN
7	AZ	81	HIS
7	AZ	136	GLU
7	AZ	244	HIS
10	BC	203	GLU
10	BC	204	VAL
10	BC	208	ASP
12	BE	203	LYS
13	BF	13	ARG
13	BF	168	ASP
14	BG	4	SER
14	BG	45	LYS
15	BH	23	ASN
16	BI	109	ARG
18	BK	30	ARG
18	BK	118	GLN
18	BK	180	LYS
20	BM	130	ASN
20	BM	162	ARG
20	BM	167	ARG

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Mol	Chain	Res	Type
20	BM	170	ARG
22	BO	83	ARG
23	BP	14	LYS
23	BP	28	PHE
23	BP	44	ASP
23	BP	61	ASP
25	BR	80	ARG
25	BR	94	ARG
27	BT	3	LYS
28	BU	112	LYS
36	CC	65	ASN
36	CC	114	ARG
40	CG	21	ARG
41	CH	22	LYS
42	CI	9	ARG
43	CJ	18	ARG
45	CL	67	LYS
47	CN	79	ARG
47	CN	205	ARG
48	CO	80	SER
48	CO	200	SER
49	CP	74	ASP
49	CP	136	ARG
50	CQ	77	ARG
50	CQ	179	ARG
50	CQ	216	ASP
51	CR	10	LYS
52	CS	116	HIS
52	CS	157	ARG
52	CS	163	SER
53	CT	93	LYS
53	CT	155	ASP
54	CU	30	LEU
58	CY	67	ARG
79	CZ	33	ARG
79	CZ	46	ARG
59	DA	99	ARG
61	DC	36	LEU
61	DC	130	ARG
62	DD	22	LYS
64	DF	25	ARG
64	DF	36	ARG

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Mol	Chain	Res	Type
66	DH	51	LYS
66	DH	100	LYS
67	DI	56	SER
68	DJ	37	PHE
69	DK	13	ARG
69	DK	90	ASP
71	DM	77	ARG
75	DQ	42	CYS
76	DR	31	GLN
76	DR	49	LEU
76	DR	51	ASN
77	DS	128	THR
77	DS	129	THR
77	DS	140	HIS
77	DS	183	CYS
77	DS	186	CYS
78	DT	118	LYS
78	DT	119	ASN
78	DT	226	LYS
78	DT	294	ASP
80	P0	5	ARG
80	P0	34	SER
80	P0	68	SER
80	P0	88	PHE
80	P0	94	LYS
80	P0	97	ARG
81	12	104	ILE
81	12	107	ASP
81	12	121	PHE
81	12	144	ASP
81	12	146	LYS
82	L1	18	GLU
82	L1	22	GLU
82	L1	46	ASP
82	L1	60	ARG
82	L1	63	MET
82	L1	68	PHE
82	L1	88	ASP
82	L1	142	ASP
82	L1	207	LYS
82	11	18	GLU
82	11	26	ARG

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Mol	Chain	Res	Type
82	l1	45	ARG
82	l1	68	PHE
82	l1	73	ASP
82	l1	76	ARG
82	l1	85	MET
82	l1	130	LYS
82	l1	134	PHE
82	l1	157	PHE
82	l1	189	PHE
82	l1	198	TRP
80	p0	8	LYS
80	p0	10	GLN

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (34) such sidechains are listed below:

Mol	Chain	Res	Type
8	n	3	GLN
9	o	17	GLN
23	5	30	GLN
23	5	103	GLN
26	8	111	ASN
29	AB	40	HIS
36	AI	26	GLN
36	AI	45	HIS
51	G	197	HIS
52	H	34	GLN
52	H	37	GLN
61	R	103	ASN
62	S	39	GLN
64	U	137	HIS
78	AR	53	ASN
13	BF	109	HIS
18	BK	118	GLN
18	BK	120	ASN
20	BM	134	HIS
22	BO	66	ASN
23	BP	103	GLN
26	BS	111	ASN
36	CC	62	GLN
39	CF	67	GLN
45	CL	33	ASN
47	CN	33	ASN

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Mol	Chain	Res	Type
48	CO	232	HIS
49	CP	54	HIS
62	DD	138	GLN
71	DM	38	HIS
75	DQ	23	HIS
76	DR	31	GLN
82	L1	182	GLN
82	L1	200	ASN

5.3.3 RNA [i](#)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3212/3359 (95%)	614 (19%)	45 (1%)
1	AS	3219/3359 (95%)	618 (19%)	50 (1%)
2	3	120/121 (99%)	9 (7%)	0
2	AT	120/121 (99%)	9 (7%)	0
3	4	156/158 (98%)	23 (14%)	3 (1%)
3	AU	157/158 (99%)	23 (14%)	3 (1%)
46	B	1753/1787 (98%)	447 (25%)	45 (2%)
46	CM	1762/1787 (98%)	454 (25%)	54 (3%)
All	All	10499/10850 (96%)	2197 (20%)	200 (1%)

All (2197) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
1	1	15	A
1	1	24	U
1	1	25	A
1	1	29	G
1	1	39	A
1	1	42	A
1	1	48	A
1	1	56	A
1	1	58	G
1	1	59	A
1	1	64	A
1	1	65	A
1	1	91	G
1	1	92	C
1	1	98	A
1	1	104	C

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Mol	Chain	Res	Type
1	1	108	A
1	1	109	G
1	1	110	C
1	1	121	A
1	1	134	U
1	1	135	G
1	1	155	A
1	1	156	A
1	1	164	U
1	1	169	G
1	1	172	C
1	1	173	C
1	1	175	G
1	1	186	A
1	1	189	U
1	1	190	U
1	1	199	C
1	1	205	G
1	1	209	C
1	1	212	A
1	1	217	G
1	1	218	A
1	1	219	G
1	1	230	G
1	1	236	A
1	1	239	A
1	1	240	C
1	1	243	G
1	1	245	G
1	1	249	G
1	1	250	U
1	1	269	G
1	1	286	U
1	1	295	A
1	1	305	U
1	1	311	C
1	1	323	A
1	1	329	U
1	1	337	G
1	1	338	A
1	1	339	C
1	1	349	A

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Mol	Chain	Res	Type
1	1	350	C
1	1	376	G
1	1	377	A
1	1	387	A
1	1	395	A
1	1	398	A
1	1	402	A
1	1	403	C
1	1	404	G
1	1	420	G
1	1	421	G
1	1	422	A
1	1	438	A
1	1	439	C
1	1	447	U
1	1	448	U
1	1	450	G
1	1	451	C
1	1	482	U
1	1	485	A
1	1	506	A
1	1	517	A
1	1	519	U
1	1	531	G
1	1	532	U
1	1	538	G
1	1	539	G
1	1	540	C
1	1	541	U
1	1	542	U
1	1	543	C
1	1	544	U
1	1	545	G
1	1	546	C
1	1	555	A
1	1	556	U
1	1	557	A
1	1	564	G
1	1	576	A
1	1	577	G
1	1	589	G
1	1	590	A

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Mol	Chain	Res	Type
1	1	598	U
1	1	603	C
1	1	604	C
1	1	609	A
1	1	618	U
1	1	619	A
1	1	620	A
1	1	635	C
1	1	647	A
1	1	658	A
1	1	675	A
1	1	679	U
1	1	681	U
1	1	688	A
1	1	689	A
1	1	703	A
1	1	710	G
1	1	713	A
1	1	717	A
1	1	723	G
1	1	730	A
1	1	732	U
1	1	760	U
1	1	763	U
1	1	772	U
1	1	773	U
1	1	776	A
1	1	777	G
1	1	780	A
1	1	781	G
1	1	802	A
1	1	813	A
1	1	826	A
1	1	845	C
1	1	857	C
1	1	861	U
1	1	870	U
1	1	875	U
1	1	903	G
1	1	904	G
1	1	910	A
1	1	912	G

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Mol	Chain	Res	Type
1	1	913	A
1	1	914	C
1	1	917	A
1	1	919	C
1	1	921	A
1	1	933	G
1	1	935	U
1	1	940	C
1	1	949	G
1	1	955	C
1	1	956	U
1	1	958	A
1	1	959	G
1	1	977	U
1	1	990	G
1	1	991	U
1	1	996	C
1	1	997	G
1	1	998	A
1	1	1006	G
1	1	1011	C
1	1	1012	U
1	1	1013	U
1	1	1014	G
1	1	1018	U
1	1	1019	U
1	1	1020	G
1	1	1021	A
1	1	1022	A
1	1	1023	A
1	1	1024	U
1	1	1025	G
1	1	1027	C
1	1	1030	U
1	1	1033	C
1	1	1043	A
1	1	1045	C
1	1	1060	A
1	1	1061	A
1	1	1068	G
1	1	1077	U
1	1	1078	U

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Mol	Chain	Res	Type
1	1	1089	A
1	1	1090	A
1	1	1091	U
1	1	1092	U
1	1	1094	A
1	1	1099	A
1	1	1100	G
1	1	1113	G
1	1	1127	G
1	1	1140	U
1	1	1149	A
1	1	1150	A
1	1	1151	C
1	1	1155	A
1	1	1156	C
1	1	1164	U
1	1	1174	G
1	1	1176	A
1	1	1177	U
1	1	1178	G
1	1	1188	C
1	1	1189	A
1	1	1192	C
1	1	1197	C
1	1	1204	U
1	1	1205	G
1	1	1218	G
1	1	1223	C
1	1	1224	C
1	1	1231	U
1	1	1232	G
1	1	1237	U
1	1	1239	G
1	1	1240	A
1	1	1241	A
1	1	1242	G
1	1	1244	C
1	1	1245	G
1	1	1246	G
1	1	1247	A
1	1	1249	U
1	1	1250	C

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Mol	Chain	Res	Type
1	1	1252	G
1	1	1254	U
1	1	1255	A
1	1	1257	G
1	1	1258	G
1	1	1259	A
1	1	1261	U
1	1	1262	G
1	1	1263	U
1	1	1264	G
1	1	1265	U
1	1	1266	A
1	1	1267	A
1	1	1270	A
1	1	1271	C
1	1	1273	C
1	1	1274	A
1	1	1278	G
1	1	1280	C
1	1	1282	A
1	1	1303	G
1	1	1304	A
1	1	1305	U
1	1	1309	G
1	1	1312	C
1	1	1326	A
1	1	1345	G
1	1	1346	U
1	1	1347	U
1	1	1348	U
1	1	1349	U
1	1	1382	A
1	1	1395	U
1	1	1415	A
1	1	1417	G
1	1	1421	U
1	1	1427	G
1	1	1430	G
1	1	1433	C
1	1	1442	A
1	1	1446	G
1	1	1465	C

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Mol	Chain	Res	Type
1	1	1471	A
1	1	1477	A
1	1	1484	G
1	1	1498	C
1	1	1504	C
1	1	1520	A
1	1	1523	C
1	1	1525	A
1	1	1526	U
1	1	1532	G
1	1	1535	A
1	1	1552	C
1	1	1556	G
1	1	1558	G
1	1	1559	C
1	1	1560	U
1	1	1561	U
1	1	1562	G
1	1	1563	A
1	1	1565	U
1	1	1566	U
1	1	1567	U
1	1	1568	U
1	1	1569	C
1	1	1571	G
1	1	1572	G
1	1	1574	C
1	1	1576	A
1	1	1577	C
1	1	1585	A
1	1	1589	A
1	1	1601	A
1	1	1603	U
1	1	1624	C
1	1	1625	U
1	1	1635	C
1	1	1638	A
1	1	1639	A
1	1	1641	U
1	1	1648	G
1	1	1653	C
1	1	1654	G

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Mol	Chain	Res	Type
1	1	1679	A
1	1	1720	U
1	1	1721	C
1	1	1732	G
1	1	1746	A
1	1	1747	G
1	1	1755	U
1	1	1756	A
1	1	1757	A
1	1	1758	U
1	1	1760	U
1	1	1761	U
1	1	1762	G
1	1	1763	C
1	1	1776	G
1	1	1793	A
1	1	1804	G
1	1	1809	A
1	1	1810	A
1	1	1811	U
1	1	1812	A
1	1	1814	U
1	1	1815	U
1	1	1816	U
1	1	1817	U
1	1	1837	A
1	1	1838	A
1	1	1842	C
1	1	1845	C
1	1	1862	C
1	1	1874	G
1	1	1882	A
1	1	1889	A
1	1	1902	G
1	1	1944	G
1	1	1949	G
1	1	2068	U
1	1	2069	U
1	1	2070	A
1	1	2071	A
1	1	2078	A
1	1	2088	G

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Mol	Chain	Res	Type
1	1	2089	G
1	1	2091	A
1	1	2092	C
1	1	2099	G
1	1	2100	G
1	1	2109	A
1	1	2118	U
1	1	2122	A
1	1	2136	A
1	1	2147	G
1	1	2149	G
1	1	2183	U
1	1	2184	G
1	1	2185	A
1	1	2186	A
1	1	2187	U
1	1	2188	G
1	1	2222	A
1	1	2227	G
1	1	2234	A
1	1	2235	C
1	1	2250	G
1	1	2251	G
1	1	2259	A
1	1	2260	U
1	1	2276	U
1	1	2285	G
1	1	2286	C
1	1	2288	U
1	1	2291	A
1	1	2292	U
1	1	2293	G
1	1	2313	G
1	1	2314	U
1	1	2341	A
1	1	2351	A
1	1	2352	C
1	1	2353	G
1	1	2363	G
1	1	2366	U
1	1	2371	G
1	1	2372	G

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Mol	Chain	Res	Type
1	1	2375	A
1	1	2380	A
1	1	2381	G
1	1	2382	A
1	1	2389	U
1	1	2396	G
1	1	2397	A
1	1	2413	G
1	1	2415	G
1	1	2420	G
1	1	2421	A
1	1	2422	C
1	1	2423	A
1	1	2427	A
1	1	2430	G
1	1	2431	U
1	1	2432	G
1	1	2433	U
1	1	2437	A
1	1	2438	U
1	1	2439	A
1	1	2440	A
1	1	2441	G
1	1	2442	U
1	1	2443	G
1	1	2444	G
1	1	2445	G
1	1	2446	A
1	1	2447	G
1	1	2448	C
1	1	2449	U
1	1	2450	U
1	1	2452	G
1	1	2454	C
1	1	2455	G
1	1	2456	C
1	1	2457	C
1	1	2459	G
1	1	2460	U
1	1	2464	A
1	1	2465	U
1	1	2466	A

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Mol	Chain	Res	Type
1	1	2467	C
1	1	2468	C
1	1	2470	C
1	1	2471	U
1	1	2472	A
1	1	2473	C
1	1	2475	U
1	1	2476	C
1	1	2477	U
1	1	2480	A
1	1	2482	U
1	1	2483	U
1	1	2484	U
1	1	2485	U
1	1	2489	A
1	1	2492	U
1	1	2493	A
1	1	2511	G
1	1	2513	A
1	1	2515	G
1	1	2516	U
1	1	2517	C
1	1	2518	A
1	1	2519	A
1	1	2520	A
1	1	2521	C
1	1	2529	U
1	1	2530	C
1	1	2533	G
1	1	2536	U
1	1	2538	A
1	1	2545	C
1	1	2546	U
1	1	2554	C
1	1	2557	G
1	1	2565	A
1	1	2566	C
1	1	2578	G
1	1	2579	G
1	1	2586	G
1	1	2598	A
1	1	2623	G

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Mol	Chain	Res	Type
1	1	2624	U
1	1	2628	A
1	1	2638	C
1	1	2644	G
1	1	2646	A
1	1	2649	G
1	1	2661	A
1	1	2662	G
1	1	2663	A
1	1	2664	A
1	1	2666	A
1	1	2668	A
1	1	2676	A
1	1	2677	A
1	1	2686	G
1	1	2691	U
1	1	2699	A
1	1	2700	G
1	1	2701	U
1	1	2724	U
1	1	2725	G
1	1	2734	A
1	1	2745	C
1	1	2749	G
1	1	2750	G
1	1	2768	G
1	1	2771	A
1	1	2772	G
1	1	2773	A
1	1	2774	A
1	1	2782	C
1	1	2786	G
1	1	2789	A
1	1	2790	U
1	1	2808	C
1	1	2814	U
1	1	2815	U
1	1	2817	A
1	1	2833	U
1	1	2839	C
1	1	2843	G
1	1	2844	A

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Mol	Chain	Res	Type
1	1	2847	U
1	1	2859	A
1	1	2861	C
1	1	2866	C
1	1	2870	G
1	1	2871	C
1	1	2886	G
1	1	2895	U
1	1	2907	U
1	1	2908	A
1	1	2911	G
1	1	2914	C
1	1	2919	G
1	1	2920	C
1	1	2923	G
1	1	2926	U
1	1	2943	A
1	1	2955	C
1	1	2962	G
1	1	2969	G
1	1	2984	A
1	1	3021	A
1	1	3028	U
1	1	3031	G
1	1	3050	A
1	1	3051	C
1	1	3052	G
1	1	3058	A
1	1	3064	C
1	1	3073	G
1	1	3094	A
1	1	3101	A
1	1	3102	A
1	1	3103	U
1	1	3114	A
1	1	3115	C
1	1	3125	U
1	1	3126	U
1	1	3127	U
1	1	3128	G
1	1	3143	G
1	1	3144	A

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Mol	Chain	Res	Type
1	1	3146	G
1	1	3149	U
1	1	3151	C
1	1	3157	A
1	1	3160	C
1	1	3161	U
1	1	3162	U
1	1	3163	U
1	1	3164	U
1	1	3165	U
1	1	3166	A
1	1	3167	G
1	1	3171	C
1	1	3172	U
1	1	3182	C
1	1	3183	A
1	1	3184	G
1	1	3194	G
1	1	3208	A
1	1	3210	A
1	1	3212	G
1	1	3214	U
1	1	3221	G
1	1	3224	U
1	1	3228	G
1	1	3235	A
1	1	3241	G
1	1	3246	C
1	1	3252	C
1	1	3259	A
1	1	3260	A
1	1	3268	G
1	1	3269	C
1	1	3272	A
1	1	3278	U
1	1	3281	A
1	1	3284	U
1	1	3285	A
1	1	3306	U
1	1	3307	A
1	1	3309	A
1	1	3310	G

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Mol	Chain	Res	Type
1	1	3316	U
1	1	3317	U
1	1	3318	G
1	1	3319	U
1	1	3320	U
1	1	3321	G
1	1	3334	G
1	1	3343	C
1	1	3351	G
1	1	3361	U
2	3	7	G
2	3	22	A
2	3	54	U
2	3	55	A
2	3	65	G
2	3	73	C
2	3	76	A
2	3	102	A
2	3	112	G
3	4	23	U
3	4	34	U
3	4	35	C
3	4	59	A
3	4	62	C
3	4	63	G
3	4	81	A
3	4	84	C
3	4	85	G
3	4	86	U
3	4	87	G
3	4	92	A
3	4	95	G
3	4	102	U
3	4	104	A
3	4	106	C
3	4	111	A
3	4	113	U
3	4	125	U
3	4	126	A
3	4	148	G
3	4	152	G
3	4	157	U

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Mol	Chain	Res	Type
46	B	17	C
46	B	25	C
46	B	26	A
46	B	27	U
46	B	34	G
46	B	47	A
46	B	57	G
46	B	66	U
46	B	74	U
46	B	75	U
46	B	76	A
46	B	78	A
46	B	79	C
46	B	81	G
46	B	84	A
46	B	93	A
46	B	104	A
46	B	114	C
46	B	115	G
46	B	123	G
46	B	126	A
46	B	127	G
46	B	128	U
46	B	129	A
46	B	130	C
46	B	131	C
46	B	132	U
46	B	133	U
46	B	134	A
46	B	135	C
46	B	138	C
46	B	139	U
46	B	142	G
46	B	143	A
46	B	150	U
46	B	151	G
46	B	152	G
46	B	154	A
46	B	159	U
46	B	166	A
46	B	168	U
46	B	173	G

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Mol	Chain	Res	Type
46	B	174	C
46	B	176	U
46	B	177	A
46	B	179	A
46	B	190	U
46	B	191	U
46	B	193	G
46	B	199	G
46	B	200	A
46	B	202	G
46	B	206	U
46	B	211	A
46	B	213	A
46	B	214	U
46	B	215	A
46	B	216	A
46	B	217	A
46	B	218	A
46	B	220	A
46	B	221	U
46	B	224	A
46	B	226	G
46	B	229	U
46	B	230	U
46	B	231	C
46	B	233	G
46	B	237	C
46	B	238	U
46	B	247	U
46	B	255	A
46	B	259	U
46	B	260	U
46	B	261	C
46	B	262	G
46	B	266	C
46	B	269	A
46	B	270	U
46	B	274	C
46	B	276	U
46	B	277	G
46	B	278	U
46	B	279	G

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Mol	Chain	Res	Type
46	B	283	G
46	B	285	G
46	B	297	A
46	B	312	C
46	B	314	A
46	B	318	U
46	B	319	C
46	B	320	G
46	B	335	G
46	B	336	C
46	B	350	A
46	B	357	A
46	B	358	A
46	B	359	C
46	B	388	G
46	B	398	A
46	B	400	C
46	B	402	G
46	B	414	A
46	B	416	G
46	B	421	G
46	B	422	C
46	B	423	A
46	B	424	G
46	B	432	G
46	B	437	U
46	B	442	C
46	B	446	C
46	B	452	A
46	B	458	A
46	B	466	A
46	B	475	A
46	B	480	U
46	B	482	C
46	B	483	A
46	B	485	G
46	B	487	C
46	B	489	C
46	B	490	U
46	B	491	U
46	B	493	U
46	B	498	C

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Mol	Chain	Res	Type
46	B	499	U
46	B	503	A
46	B	505	U
46	B	506	U
46	B	509	A
46	B	512	G
46	B	513	A
46	B	515	U
46	B	518	A
46	B	519	A
46	B	525	A
46	B	530	U
46	B	534	C
46	B	536	A
46	B	537	G
46	B	539	A
46	B	540	A
46	B	547	G
46	B	553	A
46	B	554	A
46	B	555	G
46	B	556	U
46	B	557	C
46	B	563	C
46	B	566	G
46	B	575	G
46	B	576	U
46	B	580	U
46	B	592	A
46	B	593	G
46	B	604	A
46	B	609	U
46	B	617	A
46	B	618	A
46	B	620	A
46	B	621	A
46	B	639	G
46	B	643	U
46	B	645	G
46	B	648	U
46	B	649	G
46	B	650	G

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Mol	Chain	Res	Type
46	B	651	C
46	B	652	C
46	B	654	G
46	B	657	C
46	B	670	C
46	B	671	G
46	B	672	U
46	B	673	A
46	B	674	C
46	B	677	G
46	B	678	A
46	B	679	C
46	B	680	C
46	B	681	C
46	B	685	C
46	B	688	G
46	B	695	C
46	B	696	U
46	B	697	U
46	B	698	C
46	B	700	G
46	B	701	G
46	B	702	G
46	B	703	U
46	B	704	A
46	B	705	G
46	B	706	C
46	B	707	C
46	B	708	A
46	B	709	U
46	B	710	U
46	B	711	U
46	B	712	A
46	B	713	U
46	B	714	G
46	B	715	G
46	B	716	C
46	B	717	G
46	B	718	A
46	B	719	A
46	B	721	C
46	B	723	G

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Mol	Chain	Res	Type
46	B	729	U
46	B	739	A
46	B	740	A
46	B	741	A
46	B	750	G
46	B	751	U
46	B	756	A
46	B	759	A
46	B	760	G
46	B	762	C
46	B	764	U
46	B	765	U
46	B	766	U
46	B	767	G
46	B	768	C
46	B	770	C
46	B	771	G
46	B	773	A
46	B	775	A
46	B	778	U
46	B	779	U
46	B	796	A
46	B	798	A
46	B	799	G
46	B	802	C
46	B	803	G
46	B	804	U
46	B	805	U
46	B	807	U
46	B	808	G
46	B	813	U
46	B	815	U
46	B	817	U
46	B	819	G
46	B	820	U
46	B	821	U
46	B	822	G
46	B	823	G
46	B	824	U
46	B	825	U
46	B	826	U
46	B	828	U

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Mol	Chain	Res	Type
46	B	829	A
46	B	831	G
46	B	840	A
46	B	842	U
46	B	847	A
46	B	848	A
46	B	856	G
46	B	857	G
46	B	869	A
46	B	871	U
46	B	875	C
46	B	877	G
46	B	878	U
46	B	879	U
46	B	881	U
46	B	891	A
46	B	909	A
46	B	910	G
46	B	911	A
46	B	918	A
46	B	920	U
46	B	927	G
46	B	945	U
46	B	951	A
46	B	973	A
46	B	975	C
46	B	977	A
46	B	988	A
46	B	989	U
46	B	990	A
46	B	997	U
46	B	998	A
46	B	1004	A
46	B	1005	A
46	B	1011	A
46	B	1013	C
46	B	1017	G
46	B	1024	A
46	B	1025	G
46	B	1039	U
46	B	1042	U
46	B	1043	U

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Mol	Chain	Res	Type
46	B	1044	U
46	B	1045	U
46	B	1047	U
46	B	1055	A
46	B	1056	U
46	B	1057	C
46	B	1058	G
46	B	1059	G
46	B	1060	C
46	B	1061	A
46	B	1067	C
46	B	1077	A
46	B	1081	C
46	B	1085	G
46	B	1123	A
46	B	1135	G
46	B	1143	C
46	B	1145	A
46	B	1152	G
46	B	1168	A
46	B	1169	A
46	B	1170	U
46	B	1179	A
46	B	1181	A
46	B	1184	G
46	B	1185	G
46	B	1187	A
46	B	1193	A
46	B	1202	A
46	B	1203	G
46	B	1206	A
46	B	1207	C
46	B	1212	A
46	B	1215	A
46	B	1219	A
46	B	1220	C
46	B	1221	A
46	B	1229	A
46	B	1230	G
46	B	1231	C
46	B	1236	U
46	B	1243	U

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Mol	Chain	Res	Type
46	B	1250	G
46	B	1270	U
46	B	1299	U
46	B	1300	U
46	B	1301	G
46	B	1306	A
46	B	1325	U
46	B	1330	A
46	B	1336	G
46	B	1339	G
46	B	1342	A
46	B	1343	G
46	B	1345	A
46	B	1346	U
46	B	1348	U
46	B	1349	G
46	B	1352	G
46	B	1355	A
46	B	1356	U
46	B	1357	A
46	B	1359	U
46	B	1360	C
46	B	1364	U
46	B	1369	G
46	B	1370	A
46	B	1376	U
46	B	1380	G
46	B	1381	A
46	B	1382	U
46	B	1384	U
46	B	1385	C
46	B	1392	A
46	B	1397	A
46	B	1398	G
46	B	1399	U
46	B	1400	U
46	B	1401	U
46	B	1410	A
46	B	1413	A
46	B	1414	G
46	B	1415	G
46	B	1422	A

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Mol	Chain	Res	Type
46	B	1431	G
46	B	1433	C
46	B	1445	C
46	B	1446	A
46	B	1455	A
46	B	1457	A
46	B	1458	C
46	B	1461	A
46	B	1462	C
46	B	1463	G
46	B	1468	C
46	B	1476	A
46	B	1477	U
46	B	1480	G
46	B	1483	U
46	B	1485	G
46	B	1491	G
46	B	1502	A
46	B	1503	A
46	B	1508	G
46	B	1510	G
46	B	1511	A
46	B	1523	G
46	B	1524	C
46	B	1529	G
46	B	1530	A
46	B	1541	U
46	B	1544	U
46	B	1546	G
46	B	1560	A
46	B	1561	G
46	B	1571	G
46	B	1574	A
46	B	1575	G
46	B	1577	G
46	B	1580	A
46	B	1582	U
46	B	1584	A
46	B	1588	G
46	B	1621	C
46	B	1644	U
46	B	1645	G

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Mol	Chain	Res	Type
46	B	1665	C
46	B	1667	G
46	B	1670	U
46	B	1671	G
46	B	1672	G
46	B	1673	U
46	B	1674	U
46	B	1696	U
46	B	1697	C
46	B	1699	G
46	B	1700	G
46	B	1701	A
46	B	1702	A
46	B	1704	C
46	B	1737	A
46	B	1743	A
46	B	1747	G
46	B	1749	A
46	B	1753	A
46	B	1756	U
46	B	1767	G
46	B	1770	C
46	B	1779	G
46	B	1780	G
46	B	1781	A
46	B	1782	U
46	B	1783	C
1	AS	24	U
1	AS	25	A
1	AS	29	G
1	AS	39	A
1	AS	42	A
1	AS	48	A
1	AS	56	A
1	AS	58	G
1	AS	59	A
1	AS	64	A
1	AS	65	A
1	AS	91	G
1	AS	98	A
1	AS	104	C
1	AS	108	A

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Mol	Chain	Res	Type
1	AS	109	G
1	AS	110	C
1	AS	121	A
1	AS	134	U
1	AS	135	G
1	AS	155	A
1	AS	156	A
1	AS	164	U
1	AS	169	G
1	AS	172	C
1	AS	173	C
1	AS	175	G
1	AS	186	A
1	AS	189	U
1	AS	190	U
1	AS	199	C
1	AS	205	G
1	AS	209	C
1	AS	212	A
1	AS	217	G
1	AS	218	A
1	AS	219	G
1	AS	230	G
1	AS	236	A
1	AS	239	A
1	AS	240	C
1	AS	243	G
1	AS	245	G
1	AS	249	G
1	AS	250	U
1	AS	251	G
1	AS	269	G
1	AS	286	U
1	AS	295	A
1	AS	305	U
1	AS	311	C
1	AS	323	A
1	AS	329	U
1	AS	337	G
1	AS	338	A
1	AS	339	C
1	AS	343	U

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Mol	Chain	Res	Type
1	AS	349	A
1	AS	350	C
1	AS	376	G
1	AS	377	A
1	AS	395	A
1	AS	398	A
1	AS	402	A
1	AS	403	C
1	AS	404	G
1	AS	420	G
1	AS	421	G
1	AS	422	A
1	AS	438	A
1	AS	439	C
1	AS	441	U
1	AS	442	G
1	AS	445	A
1	AS	447	U
1	AS	448	U
1	AS	449	U
1	AS	450	G
1	AS	451	C
1	AS	453	U
1	AS	454	G
1	AS	474	C
1	AS	476	C
1	AS	479	C
1	AS	480	G
1	AS	481	G
1	AS	482	U
1	AS	483	U
1	AS	484	U
1	AS	486	C
1	AS	487	C
1	AS	488	G
1	AS	506	A
1	AS	517	A
1	AS	519	U
1	AS	531	G
1	AS	532	U
1	AS	538	G
1	AS	539	G

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Mol	Chain	Res	Type
1	AS	541	U
1	AS	542	U
1	AS	543	C
1	AS	544	U
1	AS	545	G
1	AS	546	C
1	AS	555	A
1	AS	556	U
1	AS	557	A
1	AS	564	G
1	AS	577	G
1	AS	589	G
1	AS	590	A
1	AS	598	U
1	AS	600	U
1	AS	601	U
1	AS	602	A
1	AS	609	A
1	AS	618	U
1	AS	619	A
1	AS	620	A
1	AS	635	C
1	AS	647	A
1	AS	658	A
1	AS	675	A
1	AS	679	U
1	AS	688	A
1	AS	689	A
1	AS	703	A
1	AS	710	G
1	AS	713	A
1	AS	717	A
1	AS	723	G
1	AS	730	A
1	AS	732	U
1	AS	760	U
1	AS	763	U
1	AS	772	U
1	AS	773	U
1	AS	776	A
1	AS	777	G
1	AS	780	A

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Mol	Chain	Res	Type
1	AS	781	G
1	AS	802	A
1	AS	813	A
1	AS	826	A
1	AS	845	C
1	AS	857	C
1	AS	861	U
1	AS	870	U
1	AS	875	U
1	AS	892	A
1	AS	893	U
1	AS	903	G
1	AS	904	G
1	AS	910	A
1	AS	912	G
1	AS	913	A
1	AS	917	A
1	AS	919	C
1	AS	921	A
1	AS	933	G
1	AS	940	C
1	AS	949	G
1	AS	955	C
1	AS	956	U
1	AS	959	G
1	AS	970	G
1	AS	976	A
1	AS	977	U
1	AS	990	G
1	AS	991	U
1	AS	996	C
1	AS	997	G
1	AS	998	A
1	AS	1006	G
1	AS	1011	C
1	AS	1012	U
1	AS	1014	G
1	AS	1017	G
1	AS	1019	U
1	AS	1020	G
1	AS	1022	A
1	AS	1023	A

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Mol	Chain	Res	Type
1	AS	1024	U
1	AS	1025	G
1	AS	1026	A
1	AS	1027	C
1	AS	1030	U
1	AS	1033	C
1	AS	1043	A
1	AS	1045	C
1	AS	1060	A
1	AS	1061	A
1	AS	1068	G
1	AS	1077	U
1	AS	1078	U
1	AS	1089	A
1	AS	1090	A
1	AS	1091	U
1	AS	1092	U
1	AS	1094	A
1	AS	1099	A
1	AS	1100	G
1	AS	1113	G
1	AS	1127	G
1	AS	1140	U
1	AS	1149	A
1	AS	1150	A
1	AS	1151	C
1	AS	1155	A
1	AS	1156	C
1	AS	1164	U
1	AS	1174	G
1	AS	1176	A
1	AS	1177	U
1	AS	1178	G
1	AS	1188	C
1	AS	1189	A
1	AS	1192	C
1	AS	1197	C
1	AS	1204	U
1	AS	1205	G
1	AS	1218	G
1	AS	1219	A
1	AS	1228	C

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Mol	Chain	Res	Type
1	AS	1231	U
1	AS	1232	G
1	AS	1233	G
1	AS	1237	U
1	AS	1238	G
1	AS	1239	G
1	AS	1240	A
1	AS	1241	A
1	AS	1242	G
1	AS	1243	U
1	AS	1244	C
1	AS	1246	G
1	AS	1248	A
1	AS	1249	U
1	AS	1250	C
1	AS	1252	G
1	AS	1254	U
1	AS	1255	A
1	AS	1256	A
1	AS	1258	G
1	AS	1259	A
1	AS	1260	G
1	AS	1261	U
1	AS	1263	U
1	AS	1264	G
1	AS	1265	U
1	AS	1266	A
1	AS	1270	A
1	AS	1271	C
1	AS	1273	C
1	AS	1278	G
1	AS	1281	G
1	AS	1282	A
1	AS	1283	A
1	AS	1303	G
1	AS	1304	A
1	AS	1305	U
1	AS	1309	G
1	AS	1326	A
1	AS	1345	G
1	AS	1346	U
1	AS	1347	U

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Mol	Chain	Res	Type
1	AS	1348	U
1	AS	1349	U
1	AS	1382	A
1	AS	1395	U
1	AS	1415	A
1	AS	1417	G
1	AS	1421	U
1	AS	1427	G
1	AS	1430	G
1	AS	1433	C
1	AS	1442	A
1	AS	1446	G
1	AS	1465	C
1	AS	1471	A
1	AS	1477	A
1	AS	1484	G
1	AS	1498	C
1	AS	1504	C
1	AS	1520	A
1	AS	1523	C
1	AS	1532	G
1	AS	1535	A
1	AS	1552	C
1	AS	1556	G
1	AS	1558	G
1	AS	1559	C
1	AS	1560	U
1	AS	1561	U
1	AS	1562	G
1	AS	1563	A
1	AS	1564	U
1	AS	1565	U
1	AS	1566	U
1	AS	1567	U
1	AS	1568	U
1	AS	1569	C
1	AS	1571	G
1	AS	1572	G
1	AS	1574	C
1	AS	1576	A
1	AS	1585	A
1	AS	1589	A

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Mol	Chain	Res	Type
1	AS	1601	A
1	AS	1603	U
1	AS	1624	C
1	AS	1625	U
1	AS	1635	C
1	AS	1638	A
1	AS	1639	A
1	AS	1641	U
1	AS	1648	G
1	AS	1654	G
1	AS	1679	A
1	AS	1720	U
1	AS	1721	C
1	AS	1732	G
1	AS	1746	A
1	AS	1747	G
1	AS	1755	U
1	AS	1756	A
1	AS	1757	A
1	AS	1758	U
1	AS	1759	U
1	AS	1761	U
1	AS	1762	G
1	AS	1763	C
1	AS	1776	G
1	AS	1793	A
1	AS	1804	G
1	AS	1809	A
1	AS	1810	A
1	AS	1811	U
1	AS	1812	A
1	AS	1814	U
1	AS	1815	U
1	AS	1816	U
1	AS	1817	U
1	AS	1835	A
1	AS	1838	A
1	AS	1842	C
1	AS	1845	C
1	AS	1862	C
1	AS	1874	G
1	AS	1882	A

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Mol	Chain	Res	Type
1	AS	1889	A
1	AS	1902	G
1	AS	1944	G
1	AS	1949	G
1	AS	2070	A
1	AS	2071	A
1	AS	2078	A
1	AS	2088	G
1	AS	2089	G
1	AS	2091	A
1	AS	2092	C
1	AS	2099	G
1	AS	2100	G
1	AS	2109	A
1	AS	2118	U
1	AS	2122	A
1	AS	2136	A
1	AS	2147	G
1	AS	2149	G
1	AS	2183	U
1	AS	2184	G
1	AS	2185	A
1	AS	2186	A
1	AS	2187	U
1	AS	2188	G
1	AS	2201	A
1	AS	2222	A
1	AS	2227	G
1	AS	2234	A
1	AS	2250	G
1	AS	2251	G
1	AS	2259	A
1	AS	2260	U
1	AS	2276	U
1	AS	2285	G
1	AS	2286	C
1	AS	2288	U
1	AS	2291	A
1	AS	2292	U
1	AS	2293	G
1	AS	2312	U
1	AS	2313	G

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Mol	Chain	Res	Type
1	AS	2314	U
1	AS	2351	A
1	AS	2352	C
1	AS	2353	G
1	AS	2363	G
1	AS	2366	U
1	AS	2371	G
1	AS	2372	G
1	AS	2375	A
1	AS	2380	A
1	AS	2381	G
1	AS	2382	A
1	AS	2389	U
1	AS	2396	G
1	AS	2397	A
1	AS	2413	G
1	AS	2421	A
1	AS	2422	C
1	AS	2425	G
1	AS	2426	G
1	AS	2427	A
1	AS	2428	G
1	AS	2429	G
1	AS	2430	G
1	AS	2431	U
1	AS	2432	G
1	AS	2433	U
1	AS	2434	A
1	AS	2435	G
1	AS	2436	A
1	AS	2437	A
1	AS	2439	A
1	AS	2440	A
1	AS	2441	G
1	AS	2442	U
1	AS	2443	G
1	AS	2444	G
1	AS	2445	G
1	AS	2446	A
1	AS	2447	G
1	AS	2448	C
1	AS	2449	U

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Mol	Chain	Res	Type
1	AS	2450	U
1	AS	2452	G
1	AS	2453	G
1	AS	2455	G
1	AS	2456	C
1	AS	2457	C
1	AS	2458	G
1	AS	2459	G
1	AS	2464	A
1	AS	2465	U
1	AS	2466	A
1	AS	2467	C
1	AS	2468	C
1	AS	2469	A
1	AS	2471	U
1	AS	2472	A
1	AS	2473	C
1	AS	2474	C
1	AS	2475	U
1	AS	2476	C
1	AS	2477	U
1	AS	2478	A
1	AS	2480	A
1	AS	2481	G
1	AS	2483	U
1	AS	2484	U
1	AS	2489	A
1	AS	2492	U
1	AS	2493	A
1	AS	2510	U
1	AS	2511	G
1	AS	2513	A
1	AS	2515	G
1	AS	2516	U
1	AS	2517	C
1	AS	2518	A
1	AS	2519	A
1	AS	2520	A
1	AS	2521	C
1	AS	2529	U
1	AS	2530	C
1	AS	2533	G

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Mol	Chain	Res	Type
1	AS	2536	U
1	AS	2538	A
1	AS	2545	C
1	AS	2546	U
1	AS	2554	C
1	AS	2557	G
1	AS	2565	A
1	AS	2566	C
1	AS	2578	G
1	AS	2579	G
1	AS	2586	G
1	AS	2598	A
1	AS	2623	G
1	AS	2624	U
1	AS	2628	A
1	AS	2646	A
1	AS	2649	G
1	AS	2661	A
1	AS	2662	G
1	AS	2663	A
1	AS	2666	A
1	AS	2668	A
1	AS	2676	A
1	AS	2677	A
1	AS	2686	G
1	AS	2699	A
1	AS	2700	G
1	AS	2701	U
1	AS	2724	U
1	AS	2725	G
1	AS	2734	A
1	AS	2745	C
1	AS	2749	G
1	AS	2750	G
1	AS	2768	G
1	AS	2771	A
1	AS	2772	G
1	AS	2773	A
1	AS	2774	A
1	AS	2782	C
1	AS	2786	G
1	AS	2789	A

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Mol	Chain	Res	Type
1	AS	2790	U
1	AS	2814	U
1	AS	2815	U
1	AS	2817	A
1	AS	2833	U
1	AS	2839	C
1	AS	2843	G
1	AS	2844	A
1	AS	2847	U
1	AS	2859	A
1	AS	2861	C
1	AS	2866	C
1	AS	2870	G
1	AS	2871	C
1	AS	2886	G
1	AS	2895	U
1	AS	2907	U
1	AS	2908	A
1	AS	2911	G
1	AS	2914	C
1	AS	2919	G
1	AS	2920	C
1	AS	2923	G
1	AS	2926	U
1	AS	2943	A
1	AS	2955	C
1	AS	2960	C
1	AS	2962	G
1	AS	2969	G
1	AS	2984	A
1	AS	3021	A
1	AS	3028	U
1	AS	3031	G
1	AS	3050	A
1	AS	3051	C
1	AS	3052	G
1	AS	3058	A
1	AS	3064	C
1	AS	3076	U
1	AS	3094	A
1	AS	3101	A
1	AS	3102	A

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Mol	Chain	Res	Type
1	AS	3103	U
1	AS	3114	A
1	AS	3115	C
1	AS	3134	C
1	AS	3143	G
1	AS	3144	A
1	AS	3146	G
1	AS	3149	U
1	AS	3151	C
1	AS	3157	A
1	AS	3160	C
1	AS	3161	U
1	AS	3162	U
1	AS	3163	U
1	AS	3164	U
1	AS	3165	U
1	AS	3166	A
1	AS	3167	G
1	AS	3171	C
1	AS	3172	U
1	AS	3182	C
1	AS	3183	A
1	AS	3184	G
1	AS	3194	G
1	AS	3208	A
1	AS	3210	A
1	AS	3212	G
1	AS	3214	U
1	AS	3224	U
1	AS	3228	G
1	AS	3235	A
1	AS	3241	G
1	AS	3246	C
1	AS	3252	C
1	AS	3259	A
1	AS	3260	A
1	AS	3268	G
1	AS	3269	C
1	AS	3272	A
1	AS	3278	U
1	AS	3281	A
1	AS	3284	U

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Mol	Chain	Res	Type
1	AS	3285	A
1	AS	3306	U
1	AS	3307	A
1	AS	3309	A
1	AS	3310	G
1	AS	3316	U
1	AS	3317	U
1	AS	3318	G
1	AS	3319	U
1	AS	3320	U
1	AS	3321	G
1	AS	3334	G
1	AS	3343	C
1	AS	3351	G
1	AS	3361	U
2	AT	7	G
2	AT	22	A
2	AT	54	U
2	AT	55	A
2	AT	65	G
2	AT	73	C
2	AT	76	A
2	AT	102	A
2	AT	112	G
3	AU	23	U
3	AU	34	U
3	AU	35	C
3	AU	59	A
3	AU	62	C
3	AU	63	G
3	AU	81	A
3	AU	84	C
3	AU	85	G
3	AU	86	U
3	AU	87	G
3	AU	92	A
3	AU	95	G
3	AU	102	U
3	AU	104	A
3	AU	105	A
3	AU	106	C
3	AU	111	A

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Mol	Chain	Res	Type
3	AU	113	U
3	AU	125	U
3	AU	126	A
3	AU	152	G
3	AU	157	U
46	CM	17	C
46	CM	25	C
46	CM	26	A
46	CM	27	U
46	CM	34	G
46	CM	47	A
46	CM	57	G
46	CM	66	U
46	CM	74	U
46	CM	75	U
46	CM	76	A
46	CM	78	A
46	CM	79	C
46	CM	81	G
46	CM	84	A
46	CM	104	A
46	CM	114	C
46	CM	115	G
46	CM	123	G
46	CM	126	A
46	CM	127	G
46	CM	128	U
46	CM	129	A
46	CM	130	C
46	CM	131	C
46	CM	132	U
46	CM	133	U
46	CM	134	A
46	CM	135	C
46	CM	138	C
46	CM	139	U
46	CM	142	G
46	CM	143	A
46	CM	150	U
46	CM	151	G
46	CM	152	G
46	CM	154	A

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Mol	Chain	Res	Type
46	CM	159	U
46	CM	166	A
46	CM	168	U
46	CM	173	G
46	CM	176	U
46	CM	177	A
46	CM	190	U
46	CM	193	G
46	CM	199	G
46	CM	200	A
46	CM	201	U
46	CM	202	G
46	CM	206	U
46	CM	211	A
46	CM	213	A
46	CM	214	U
46	CM	215	A
46	CM	216	A
46	CM	217	A
46	CM	218	A
46	CM	219	A
46	CM	220	A
46	CM	221	U
46	CM	222	C
46	CM	223	A
46	CM	226	G
46	CM	229	U
46	CM	230	U
46	CM	231	C
46	CM	232	G
46	CM	236	U
46	CM	237	C
46	CM	238	U
46	CM	239	U
46	CM	240	U
46	CM	247	U
46	CM	255	A
46	CM	259	U
46	CM	260	U
46	CM	261	C
46	CM	262	G
46	CM	266	C

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Mol	Chain	Res	Type
46	CM	269	A
46	CM	270	U
46	CM	273	C
46	CM	274	C
46	CM	275	U
46	CM	276	U
46	CM	278	U
46	CM	279	G
46	CM	280	C
46	CM	283	G
46	CM	285	G
46	CM	297	A
46	CM	312	C
46	CM	314	A
46	CM	318	U
46	CM	319	C
46	CM	320	G
46	CM	335	G
46	CM	336	C
46	CM	350	A
46	CM	357	A
46	CM	358	A
46	CM	359	C
46	CM	388	G
46	CM	398	A
46	CM	400	C
46	CM	402	G
46	CM	414	A
46	CM	416	G
46	CM	421	G
46	CM	422	C
46	CM	423	A
46	CM	424	G
46	CM	432	G
46	CM	437	U
46	CM	442	C
46	CM	446	C
46	CM	452	A
46	CM	458	A
46	CM	462	A
46	CM	466	A
46	CM	475	A

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Mol	Chain	Res	Type
46	CM	481	A
46	CM	486	G
46	CM	489	C
46	CM	490	U
46	CM	491	U
46	CM	493	U
46	CM	495	G
46	CM	497	U
46	CM	498	C
46	CM	499	U
46	CM	503	A
46	CM	504	A
46	CM	505	U
46	CM	506	U
46	CM	509	A
46	CM	512	G
46	CM	513	A
46	CM	515	U
46	CM	518	A
46	CM	519	A
46	CM	525	A
46	CM	530	U
46	CM	534	C
46	CM	536	A
46	CM	537	G
46	CM	539	A
46	CM	540	A
46	CM	547	G
46	CM	553	A
46	CM	554	A
46	CM	555	G
46	CM	556	U
46	CM	557	C
46	CM	563	C
46	CM	566	G
46	CM	576	U
46	CM	592	A
46	CM	593	G
46	CM	604	A
46	CM	609	U
46	CM	617	A
46	CM	618	A

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Mol	Chain	Res	Type
46	CM	620	A
46	CM	621	A
46	CM	639	G
46	CM	645	G
46	CM	648	U
46	CM	649	G
46	CM	650	G
46	CM	652	C
46	CM	653	G
46	CM	654	G
46	CM	659	U
46	CM	668	U
46	CM	670	C
46	CM	671	G
46	CM	672	U
46	CM	673	A
46	CM	674	C
46	CM	675	U
46	CM	676	G
46	CM	678	A
46	CM	679	C
46	CM	680	C
46	CM	681	C
46	CM	682	A
46	CM	688	G
46	CM	691	U
46	CM	694	C
46	CM	695	C
46	CM	696	U
46	CM	697	U
46	CM	700	G
46	CM	701	G
46	CM	702	G
46	CM	703	U
46	CM	704	A
46	CM	705	G
46	CM	706	C
46	CM	707	C
46	CM	709	U
46	CM	711	U
46	CM	712	A
46	CM	714	G

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Mol	Chain	Res	Type
46	CM	716	C
46	CM	717	G
46	CM	719	A
46	CM	720	C
46	CM	722	A
46	CM	723	G
46	CM	724	G
46	CM	729	U
46	CM	739	A
46	CM	740	A
46	CM	741	A
46	CM	750	G
46	CM	751	U
46	CM	756	A
46	CM	759	A
46	CM	760	G
46	CM	762	C
46	CM	764	U
46	CM	765	U
46	CM	766	U
46	CM	767	G
46	CM	768	C
46	CM	770	C
46	CM	771	G
46	CM	773	A
46	CM	775	A
46	CM	778	U
46	CM	779	U
46	CM	796	A
46	CM	798	A
46	CM	799	G
46	CM	802	C
46	CM	803	G
46	CM	804	U
46	CM	805	U
46	CM	807	U
46	CM	808	G
46	CM	812	C
46	CM	814	A
46	CM	815	U
46	CM	816	U
46	CM	818	U

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Mol	Chain	Res	Type
46	CM	819	G
46	CM	820	U
46	CM	821	U
46	CM	822	G
46	CM	823	G
46	CM	824	U
46	CM	825	U
46	CM	826	U
46	CM	827	C
46	CM	828	U
46	CM	829	A
46	CM	840	A
46	CM	842	U
46	CM	848	A
46	CM	856	G
46	CM	857	G
46	CM	869	A
46	CM	871	U
46	CM	875	C
46	CM	877	G
46	CM	878	U
46	CM	879	U
46	CM	881	U
46	CM	891	A
46	CM	909	A
46	CM	910	G
46	CM	911	A
46	CM	918	A
46	CM	920	U
46	CM	927	G
46	CM	945	U
46	CM	951	A
46	CM	973	A
46	CM	975	C
46	CM	977	A
46	CM	988	A
46	CM	989	U
46	CM	990	A
46	CM	997	U
46	CM	998	A
46	CM	1004	A
46	CM	1005	A

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Mol	Chain	Res	Type
46	CM	1011	A
46	CM	1013	C
46	CM	1017	G
46	CM	1024	A
46	CM	1025	G
46	CM	1039	U
46	CM	1042	U
46	CM	1043	U
46	CM	1044	U
46	CM	1047	U
46	CM	1055	A
46	CM	1056	U
46	CM	1057	C
46	CM	1058	G
46	CM	1059	G
46	CM	1060	C
46	CM	1061	A
46	CM	1067	C
46	CM	1074	U
46	CM	1077	A
46	CM	1081	C
46	CM	1085	G
46	CM	1123	A
46	CM	1135	G
46	CM	1143	C
46	CM	1145	A
46	CM	1152	G
46	CM	1168	A
46	CM	1169	A
46	CM	1170	U
46	CM	1179	A
46	CM	1181	A
46	CM	1184	G
46	CM	1185	G
46	CM	1186	G
46	CM	1187	A
46	CM	1193	A
46	CM	1202	A
46	CM	1203	G
46	CM	1206	A
46	CM	1207	C
46	CM	1212	A

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Mol	Chain	Res	Type
46	CM	1215	A
46	CM	1219	A
46	CM	1220	C
46	CM	1221	A
46	CM	1229	A
46	CM	1230	G
46	CM	1231	C
46	CM	1236	U
46	CM	1243	U
46	CM	1250	G
46	CM	1270	U
46	CM	1284	G
46	CM	1299	U
46	CM	1300	U
46	CM	1301	G
46	CM	1306	A
46	CM	1325	U
46	CM	1330	A
46	CM	1336	G
46	CM	1339	G
46	CM	1342	A
46	CM	1343	G
46	CM	1345	A
46	CM	1346	U
46	CM	1348	U
46	CM	1349	G
46	CM	1352	G
46	CM	1355	A
46	CM	1356	U
46	CM	1357	A
46	CM	1358	G
46	CM	1359	U
46	CM	1360	C
46	CM	1364	U
46	CM	1365	C
46	CM	1369	G
46	CM	1370	A
46	CM	1376	U
46	CM	1380	G
46	CM	1381	A
46	CM	1382	U
46	CM	1384	U

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Mol	Chain	Res	Type
46	CM	1385	C
46	CM	1392	A
46	CM	1397	A
46	CM	1398	G
46	CM	1399	U
46	CM	1400	U
46	CM	1401	U
46	CM	1410	A
46	CM	1413	A
46	CM	1414	G
46	CM	1415	G
46	CM	1422	A
46	CM	1431	G
46	CM	1433	C
46	CM	1445	C
46	CM	1446	A
46	CM	1455	A
46	CM	1457	A
46	CM	1458	C
46	CM	1461	A
46	CM	1462	C
46	CM	1463	G
46	CM	1468	C
46	CM	1476	A
46	CM	1477	U
46	CM	1480	G
46	CM	1483	U
46	CM	1491	G
46	CM	1502	A
46	CM	1503	A
46	CM	1508	G
46	CM	1510	G
46	CM	1511	A
46	CM	1523	G
46	CM	1524	C
46	CM	1529	G
46	CM	1530	A
46	CM	1541	U
46	CM	1544	U
46	CM	1546	G
46	CM	1556	A
46	CM	1560	A

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Mol	Chain	Res	Type
46	CM	1561	G
46	CM	1571	G
46	CM	1574	A
46	CM	1575	G
46	CM	1577	G
46	CM	1580	A
46	CM	1582	U
46	CM	1584	A
46	CM	1588	G
46	CM	1621	C
46	CM	1644	U
46	CM	1645	G
46	CM	1665	C
46	CM	1667	G
46	CM	1670	U
46	CM	1671	G
46	CM	1673	U
46	CM	1675	U
46	CM	1677	G
46	CM	1680	A
46	CM	1697	C
46	CM	1699	G
46	CM	1700	G
46	CM	1701	A
46	CM	1702	A
46	CM	1704	C
46	CM	1737	A
46	CM	1743	A
46	CM	1747	G
46	CM	1749	A
46	CM	1753	A
46	CM	1756	U
46	CM	1767	G
46	CM	1770	C
46	CM	1779	G
46	CM	1780	G
46	CM	1781	A
46	CM	1782	U
46	CM	1783	C

All (200) RNA pucker outliers are listed below:

Mol	Chain	Res	Type
1	1	172	C
1	1	403	C
1	1	538	G
1	1	563	U
1	1	759	G
1	1	912	G
1	1	1012	U
1	1	1029	U
1	1	1060	A
1	1	1099	A
1	1	1256	A
1	1	1346	U
1	1	1347	U
1	1	1559	C
1	1	1561	U
1	1	1576	A
1	1	1762	G
1	1	1815	U
1	1	1943	G
1	1	2090	U
1	1	2182	C
1	1	2183	U
1	1	2441	G
1	1	2442	U
1	1	2447	G
1	1	2455	G
1	1	2465	U
1	1	2476	C
1	1	2515	G
1	1	2519	A
1	1	2545	C
1	1	2663	A
1	1	2789	A
1	1	2790	U
1	1	2807	U
1	1	3093	U
1	1	3127	U
1	1	3164	U
1	1	3165	U
1	1	3193	C
1	1	3234	U
1	1	3240	U
1	1	3284	U

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Mol	Chain	Res	Type
1	1	3309	A
1	1	3317	U
3	4	85	G
3	4	125	U
3	4	156	U
46	B	25	C
46	B	78	A
46	B	133	U
46	B	137	A
46	B	151	G
46	B	176	U
46	B	215	A
46	B	216	A
46	B	259	U
46	B	265	U
46	B	278	U
46	B	415	A
46	B	451	C
46	B	505	U
46	B	514	G
46	B	518	A
46	B	529	C
46	B	533	A
46	B	553	A
46	B	556	U
46	B	638	U
46	B	695	C
46	B	711	U
46	B	740	A
46	B	763	C
46	B	769	U
46	B	814	A
46	B	820	U
46	B	855	C
46	B	874	U
46	B	876	A
46	B	1168	A
46	B	1335	U
46	B	1369	G
46	B	1396	A
46	B	1398	G
46	B	1457	A

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Mol	Chain	Res	Type
46	B	1467	C
46	B	1479	A
46	B	1484	U
46	B	1523	G
46	B	1573	A
46	B	1579	A
46	B	1581	G
46	B	1703	C
1	AS	172	C
1	AS	403	C
1	AS	452	A
1	AS	453	U
1	AS	481	G
1	AS	487	C
1	AS	538	G
1	AS	563	U
1	AS	601	U
1	AS	759	G
1	AS	912	G
1	AS	1029	U
1	AS	1060	A
1	AS	1099	A
1	AS	1217	A
1	AS	1245	G
1	AS	1346	U
1	AS	1347	U
1	AS	1559	C
1	AS	1762	G
1	AS	1815	U
1	AS	1943	G
1	AS	2090	U
1	AS	2182	C
1	AS	2183	U
1	AS	2430	G
1	AS	2431	U
1	AS	2434	A
1	AS	2447	G
1	AS	2448	C
1	AS	2449	U
1	AS	2452	G
1	AS	2455	G
1	AS	2458	G

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Mol	Chain	Res	Type
1	AS	2465	U
1	AS	2476	C
1	AS	2515	G
1	AS	2519	A
1	AS	2545	C
1	AS	2789	A
1	AS	2790	U
1	AS	3093	U
1	AS	3159	A
1	AS	3193	C
1	AS	3234	U
1	AS	3240	U
1	AS	3284	U
1	AS	3309	A
1	AS	3315	C
1	AS	3317	U
3	AU	85	G
3	AU	125	U
3	AU	156	U
46	CM	25	C
46	CM	65	A
46	CM	78	A
46	CM	133	U
46	CM	137	A
46	CM	151	G
46	CM	176	U
46	CM	214	U
46	CM	216	A
46	CM	237	C
46	CM	238	U
46	CM	259	U
46	CM	265	U
46	CM	415	A
46	CM	451	C
46	CM	505	U
46	CM	514	G
46	CM	518	A
46	CM	529	C
46	CM	533	A
46	CM	553	A
46	CM	556	U
46	CM	638	U

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Mol	Chain	Res	Type
46	CM	678	A
46	CM	680	C
46	CM	681	C
46	CM	690	C
46	CM	695	C
46	CM	700	G
46	CM	702	G
46	CM	711	U
46	CM	740	A
46	CM	763	C
46	CM	769	U
46	CM	814	A
46	CM	817	U
46	CM	823	G
46	CM	855	C
46	CM	874	U
46	CM	876	A
46	CM	1168	A
46	CM	1335	U
46	CM	1359	U
46	CM	1369	G
46	CM	1396	A
46	CM	1398	G
46	CM	1457	A
46	CM	1467	C
46	CM	1479	A
46	CM	1523	G
46	CM	1555	C
46	CM	1573	A
46	CM	1579	A
46	CM	1581	G

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

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

5.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

Of 1676 ligands modelled in this entry, 1674 are monoatomic - leaving 2 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
83	3K5	AS	3401	-	62,63,63	2.83	28 (45%)	82,95,95	1.67	12 (14%)
83	3K5	1	3401	-	62,63,63	2.85	27 (43%)	82,95,95	1.68	17 (20%)

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	3K5	AS	3401	-	-	11/29/121/121	0/7/7/7
83	3K5	1	3401	-	-	11/29/121/121	0/7/7/7

All (55) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
83	1	3401	3K5	C17-C22	-9.20	1.36	1.53
83	AS	3401	3K5	C17-C22	-7.96	1.38	1.53
83	1	3401	3K5	O4-C22	7.38	1.59	1.43
83	AS	3401	3K5	O4-C22	7.14	1.59	1.43
83	1	3401	3K5	C21-C22	5.98	1.63	1.52
83	AS	3401	3K5	C21-C22	5.48	1.62	1.52
83	AS	3401	3K5	O6-C23	5.15	1.46	1.34
83	1	3401	3K5	O6-C23	4.93	1.45	1.34
83	AS	3401	3K5	O1-C6	4.75	1.44	1.34
83	AS	3401	3K5	O12-C36	4.65	1.55	1.44
83	1	3401	3K5	O1-C6	4.65	1.44	1.34
83	AS	3401	3K5	C18-C17	4.53	1.61	1.53
83	1	3401	3K5	O12-C36	4.43	1.54	1.44
83	1	3401	3K5	C20-C23	4.41	1.62	1.51
83	1	3401	3K5	C37-C36	-4.36	1.41	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
83	AS	3401	3K5	C37-C36	-4.31	1.41	1.51
83	AS	3401	3K5	O4-C3	-4.18	1.32	1.42
83	AS	3401	3K5	O-C2	4.13	1.49	1.43
83	AS	3401	3K5	C20-C23	4.11	1.61	1.51
83	1	3401	3K5	O-C2	4.11	1.49	1.43
83	1	3401	3K5	C29-C28	-3.97	1.42	1.51
83	1	3401	3K5	O7-C28	3.94	1.53	1.44
83	AS	3401	3K5	C29-C28	-3.92	1.42	1.51
83	AS	3401	3K5	O9-C26	3.85	1.50	1.44
83	AS	3401	3K5	O9-C30	3.83	1.43	1.35
83	AS	3401	3K5	O7-C28	3.80	1.53	1.44
83	1	3401	3K5	C18-C17	3.74	1.60	1.53
83	1	3401	3K5	O4-C3	-3.67	1.33	1.42
83	1	3401	3K5	C7-C6	3.52	1.56	1.48
83	AS	3401	3K5	C21-C20	-3.37	1.46	1.53
83	1	3401	3K5	O9-C30	3.35	1.42	1.35
83	1	3401	3K5	O9-C26	3.34	1.49	1.44
83	AS	3401	3K5	O14-C38	3.33	1.42	1.35
83	AS	3401	3K5	C7-C6	3.22	1.55	1.48
83	1	3401	3K5	O14-C38	3.10	1.42	1.35
83	1	3401	3K5	C26-C25	-3.03	1.45	1.52
83	AS	3401	3K5	O14-C34	3.00	1.49	1.44
83	1	3401	3K5	C21-C20	-2.98	1.46	1.53
83	AS	3401	3K5	C26-C25	-2.89	1.46	1.52
83	1	3401	3K5	C9-C8	2.84	1.55	1.47
83	AS	3401	3K5	C9-C8	2.70	1.55	1.47
83	AS	3401	3K5	C4-C3	2.57	1.57	1.52
83	1	3401	3K5	O14-C34	2.53	1.48	1.44
83	1	3401	3K5	O-C3	2.50	1.45	1.42
83	AS	3401	3K5	C1-C5	-2.42	1.47	1.52
83	1	3401	3K5	C1-C5	-2.28	1.47	1.52
83	AS	3401	3K5	C2-C1	2.28	1.55	1.51
83	AS	3401	3K5	O11-C25	2.18	1.49	1.43
83	1	3401	3K5	C4-C3	2.15	1.56	1.52
83	1	3401	3K5	C2-C1	2.09	1.55	1.51
83	1	3401	3K5	O12-C32	2.06	1.47	1.41
83	AS	3401	3K5	C-C1	2.06	1.58	1.53
83	AS	3401	3K5	O12-C32	2.06	1.47	1.41
83	1	3401	3K5	O11-C25	2.01	1.49	1.43
83	AS	3401	3K5	C27-C28	2.01	1.57	1.52

All (29) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
83	AS	3401	3K5	O14-C38-C39	5.41	121.04	111.09
83	1	3401	3K5	O14-C38-C39	4.92	120.15	111.09
83	AS	3401	3K5	C2-O-C3	-4.88	110.21	113.66
83	AS	3401	3K5	O9-C30-C31	4.88	120.07	111.09
83	AS	3401	3K5	C8-C7-C6	-4.40	108.84	122.26
83	1	3401	3K5	O9-C30-C31	4.33	119.05	111.09
83	AS	3401	3K5	C-C1-C5	-3.65	107.83	112.65
83	1	3401	3K5	O6-C23-C20	3.45	119.48	111.83
83	1	3401	3K5	C32-O11-C25	-3.37	109.62	117.96
83	1	3401	3K5	C9-C8-C7	-3.36	119.23	126.91
83	AS	3401	3K5	C21-C20-C23	-3.29	103.69	111.36
83	1	3401	3K5	C21-C20-C19	3.25	114.25	109.86
83	1	3401	3K5	O1-C6-C7	3.14	118.51	111.38
83	AS	3401	3K5	C32-O11-C25	-3.09	110.31	117.96
83	1	3401	3K5	C18-C19-C20	2.99	116.19	111.18
83	1	3401	3K5	C-C1-C5	-2.81	108.94	112.65
83	1	3401	3K5	O4-C22-C21	2.78	118.46	111.36
83	1	3401	3K5	O4-C22-C17	-2.67	101.03	105.05
83	1	3401	3K5	C4-C3-C15	-2.50	110.08	114.34
83	1	3401	3K5	C26-C27-C28	2.49	115.53	110.12
83	1	3401	3K5	C37-C36-C35	-2.44	108.57	113.07
83	1	3401	3K5	C24-O6-C23	-2.39	113.39	116.94
83	AS	3401	3K5	O4-C22-C21	2.26	117.13	111.36
83	1	3401	3K5	C34-O14-C38	-2.19	114.33	117.72
83	1	3401	3K5	C24-O7-C28	-2.16	109.96	113.67
83	AS	3401	3K5	O-C3-C4	2.15	112.99	110.76
83	AS	3401	3K5	C26-C27-C28	2.12	114.73	110.12
83	AS	3401	3K5	C18-C17-C22	2.05	111.93	107.56
83	AS	3401	3K5	C10-C9-C8	-2.02	114.02	121.29

There are no chirality outliers.

All (22) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
83	1	3401	3K5	C4-C5-O1-C6
83	1	3401	3K5	C7-C6-O1-C5
83	1	3401	3K5	C31-C30-O9-C26
83	AS	3401	3K5	C39-C38-O14-C34
83	AS	3401	3K5	C35-C34-O14-C38
83	AS	3401	3K5	C31-C30-O9-C26
83	1	3401	3K5	O15-C38-O14-C34
83	1	3401	3K5	C39-C38-O14-C34
83	AS	3401	3K5	O15-C38-O14-C34

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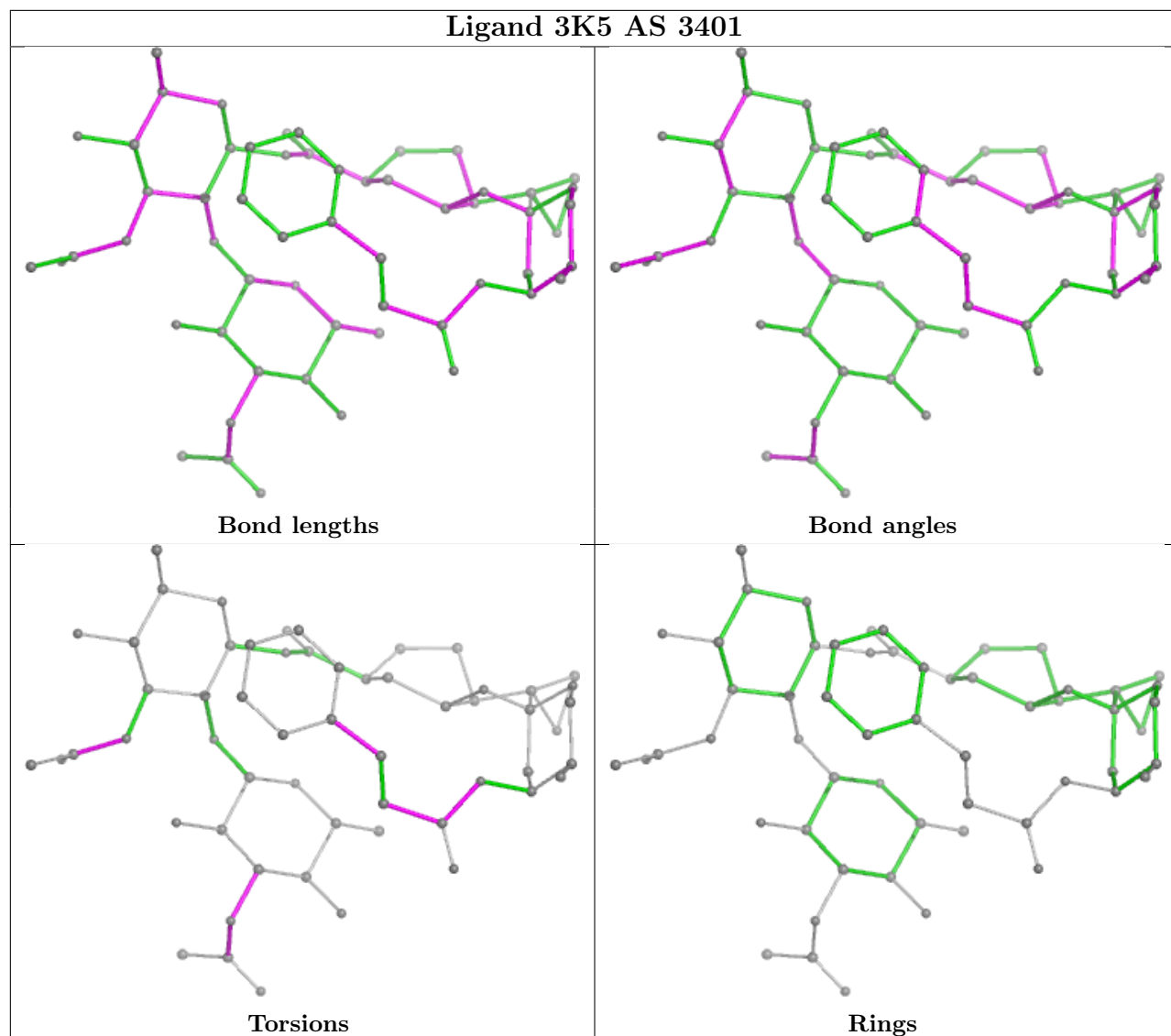
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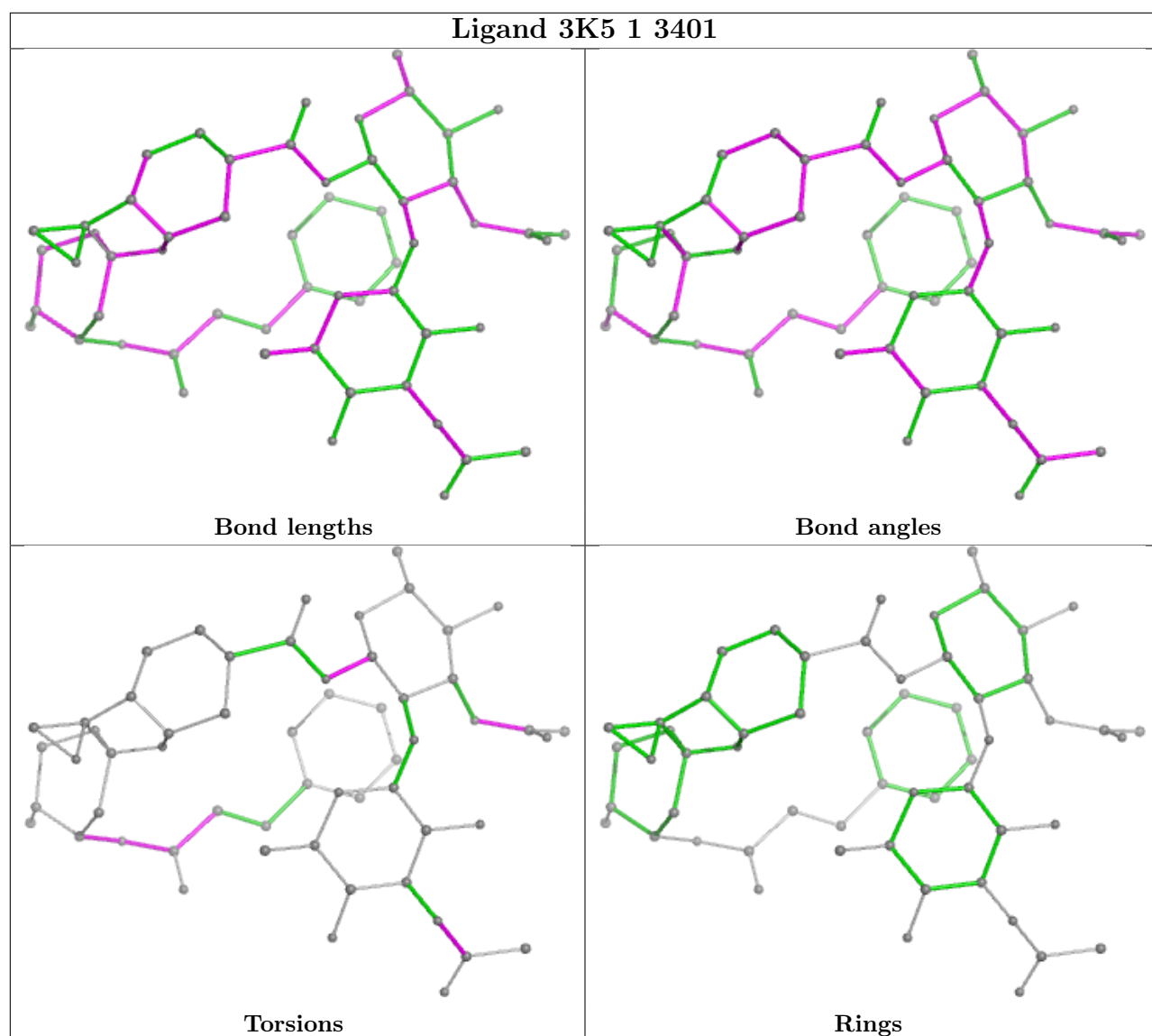
Mol	Chain	Res	Type	Atoms
83	AS	3401	3K5	O10-C30-O9-C26
83	1	3401	3K5	O10-C30-O9-C26
83	1	3401	3K5	O2-C6-O1-C5
83	AS	3401	3K5	C7-C8-C9-C10
83	1	3401	3K5	O7-C24-O6-C23
83	AS	3401	3K5	C7-C8-C9-C14
83	AS	3401	3K5	O1-C6-C7-C8
83	AS	3401	3K5	O2-C6-O1-C5
83	AS	3401	3K5	O2-C6-C7-C8
83	1	3401	3K5	O2-C6-C7-C8
83	1	3401	3K5	O1-C6-C7-C8
83	AS	3401	3K5	C7-C6-O1-C5
83	1	3401	3K5	C25-C24-O6-C23

There are no ring outliers.

No monomer is involved in short contacts.

The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. For torsion angles, if less than 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.





5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

5.8 Polymer linkage issues [\(i\)](#)

There are no chain breaks in this entry.

6 Fit of model and data i

6.1 Protein, DNA and RNA chains i

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, 95th 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	3216/3359 (95%)	0.47	248 (7%) 21 14	36, 65, 187, 389	0
1	AS	3222/3359 (95%)	0.77	364 (11%) 11 8	44, 79, 214, 339	0
2	3	121/121 (100%)	0.19	1 (0%) 82 70	44, 80, 102, 135	0
2	AT	121/121 (100%)	0.63	6 (4%) 35 24	45, 79, 104, 152	0
3	4	157/158 (99%)	0.18	3 (1%) 66 50	50, 69, 125, 185	0
3	AU	158/158 (100%)	0.90	14 (8%) 17 12	65, 101, 152, 231	0
4	AW	249/254 (98%)	1.14	51 (20%) 3 3	45, 83, 111, 135	0
4	j	249/254 (98%)	0.81	24 (9%) 15 10	35, 56, 84, 174	0
5	AX	386/389 (99%)	0.71	25 (6%) 26 18	45, 69, 103, 162	0
5	k	386/389 (99%)	0.64	21 (5%) 32 22	34, 60, 83, 137	1 (0%)
6	AY	361/363 (99%)	2.05	126 (34%) 1 1	54, 85, 119, 141	0
6	l	361/363 (99%)	1.07	50 (13%) 7 5	34, 73, 112, 147	0
7	AZ	292/298 (97%)	1.92	111 (38%) 1 1	52, 105, 142, 169	0
7	m	296/298 (99%)	1.54	77 (26%) 2 2	56, 92, 128, 151	0
8	BA	153/176 (86%)	1.00	19 (12%) 9 7	60, 84, 116, 152	0
8	n	157/176 (89%)	1.03	22 (14%) 7 5	55, 80, 115, 153	0
9	BB	234/241 (97%)	0.77	23 (9%) 14 10	45, 66, 125, 183	0
9	o	231/241 (95%)	0.63	11 (4%) 36 25	44, 61, 113, 169	0
10	BC	233/262 (88%)	1.86	85 (36%) 1 1	100, 135, 171, 191	0
10	p	238/262 (90%)	1.21	48 (20%) 3 3	60, 86, 141, 178	0
11	BD	190/191 (99%)	1.31	38 (20%) 3 3	66, 88, 121, 160	0
11	q	190/191 (99%)	0.76	11 (5%) 30 20	56, 81, 111, 143	0
12	BE	208/220 (94%)	0.83	22 (10%) 13 9	40, 62, 116, 155	0
12	r	208/220 (94%)	1.07	30 (14%) 7 5	39, 64, 104, 125	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
13	BF	171/174 (98%)	1.56	38 (22%) 3 2	64, 95, 130, 147	0
13	s	171/174 (98%)	1.27	34 (19%) 3 3	62, 95, 119, 138	0
14	BG	200/202 (99%)	1.56	59 (29%) 1 1	51, 105, 142, 162	0
14	t	200/202 (99%)	1.05	28 (14%) 7 5	47, 79, 127, 156	0
15	BH	130/131 (99%)	0.72	14 (10%) 12 9	59, 79, 110, 133	0
15	u	130/131 (99%)	0.44	5 (3%) 44 30	54, 71, 102, 124	0
16	BI	203/204 (99%)	1.76	69 (33%) 1 1	62, 96, 118, 126	0
16	v	203/204 (99%)	0.67	14 (6%) 24 17	36, 60, 78, 92	0
17	BJ	199/200 (99%)	0.74	24 (12%) 10 7	44, 60, 105, 139	0
17	w	199/200 (99%)	0.46	9 (4%) 39 26	39, 55, 93, 122	0
18	BK	176/185 (95%)	1.17	29 (16%) 5 4	49, 73, 105, 148	0
18	x	173/185 (93%)	0.93	18 (10%) 13 9	42, 63, 105, 130	0
19	BL	185/186 (99%)	1.35	35 (18%) 4 3	57, 80, 99, 112	0
19	y	185/186 (99%)	1.06	30 (16%) 5 4	44, 67, 88, 102	0
20	BM	179/190 (94%)	1.14	27 (15%) 6 5	67, 94, 154, 187	0
20	z	179/190 (94%)	1.09	30 (16%) 5 4	55, 75, 141, 155	0
21	0	170/172 (98%)	0.46	8 (4%) 37 25	49, 61, 87, 153	0
21	BN	170/172 (98%)	0.65	11 (6%) 26 18	50, 68, 93, 127	0
22	2	159/160 (99%)	0.88	18 (11%) 11 8	47, 63, 131, 153	0
22	BO	159/160 (99%)	1.17	25 (15%) 6 4	46, 67, 128, 158	0
23	5	103/124 (83%)	1.37	27 (26%) 2 2	93, 123, 153, 170	0
23	BP	102/124 (82%)	1.66	31 (30%) 1 1	99, 143, 163, 177	1 (0%)
24	6	131/137 (95%)	0.65	12 (9%) 16 11	42, 55, 84, 103	0
24	BQ	131/137 (95%)	0.95	17 (12%) 9 6	42, 61, 98, 112	0
25	7	118/155 (76%)	0.91	16 (13%) 8 6	43, 82, 135, 146	0
25	BR	98/155 (63%)	1.29	18 (18%) 4 3	57, 83, 141, 152	0
26	8	120/142 (84%)	1.00	14 (11%) 10 8	60, 78, 103, 121	0
26	BS	119/142 (83%)	1.52	26 (21%) 3 2	76, 109, 131, 142	0
27	9	126/127 (99%)	1.32	23 (18%) 4 3	53, 82, 109, 134	0
27	BT	126/127 (99%)	1.67	35 (27%) 2 1	67, 106, 142, 162	0
28	AA	135/136 (99%)	1.46	28 (20%) 3 3	66, 96, 118, 153	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
28	BU	135/136 (99%)	1.89	57 (42%) 1 1	103, 132, 155, 181	0
29	AB	148/149 (99%)	0.80	11 (7%) 22 16	41, 65, 100, 127	0
29	BV	148/149 (99%)	1.54	44 (29%) 1 1	52, 85, 114, 133	0
30	AC	59/63 (93%)	1.58	17 (28%) 1 1	46, 77, 125, 141	0
30	BW	61/63 (96%)	2.19	27 (44%) 1 1	47, 86, 141, 156	0
31	AD	96/106 (90%)	0.68	5 (5%) 34 23	62, 84, 109, 129	0
31	BX	96/106 (90%)	1.22	16 (16%) 5 4	87, 125, 150, 159	0
32	AE	110/112 (98%)	0.95	8 (7%) 22 16	51, 71, 124, 159	0
32	BY	110/112 (98%)	1.21	18 (16%) 5 4	56, 88, 129, 160	0
33	AF	124/131 (94%)	1.11	18 (14%) 7 5	42, 65, 86, 97	0
33	BZ	124/131 (94%)	1.61	35 (28%) 1 1	45, 75, 102, 119	0
34	AG	106/107 (99%)	0.67	6 (5%) 30 20	48, 61, 79, 95	0
34	CA	106/107 (99%)	0.63	7 (6%) 26 17	48, 64, 80, 99	0
35	AH	112/122 (91%)	1.46	28 (25%) 2 2	53, 77, 130, 148	0
35	CB	112/122 (91%)	2.03	45 (40%) 1 1	72, 111, 154, 174	0
36	AI	120/120 (100%)	1.22	18 (15%) 6 5	68, 89, 119, 150	0
36	CC	118/120 (98%)	2.06	51 (43%) 1 1	92, 117, 142, 151	0
37	AJ	95/99 (95%)	0.61	3 (3%) 50 35	60, 76, 105, 144	0
37	CD	97/99 (97%)	1.64	31 (31%) 1 1	90, 110, 148, 165	0
38	AK	86/90 (95%)	0.95	12 (13%) 7 5	44, 58, 102, 122	0
38	CE	86/90 (95%)	1.62	26 (30%) 1 1	53, 78, 122, 147	0
39	AL	77/78 (98%)	1.43	17 (22%) 3 2	86, 106, 146, 169	0
39	CF	77/78 (98%)	2.19	37 (48%) 0 1	102, 133, 167, 176	0
40	AM	50/51 (98%)	1.02	5 (10%) 14 10	53, 66, 92, 97	0
40	CG	50/51 (98%)	1.76	13 (26%) 2 2	70, 87, 104, 113	0
41	AN	52/52 (100%)	2.28	25 (48%) 0 1	104, 134, 149, 158	0
41	CH	51/52 (98%)	2.82	40 (78%) 0 0	109, 139, 156, 162	0
42	AO	25/25 (100%)	1.27	5 (20%) 3 3	60, 69, 83, 84	0
42	CI	24/25 (96%)	1.10	3 (12%) 9 7	55, 65, 79, 92	0
43	AP	103/106 (97%)	0.90	17 (16%) 5 4	36, 65, 116, 130	0
43	CJ	103/106 (97%)	1.12	19 (18%) 4 3	51, 77, 128, 139	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9	
44	AQ	91/92 (98%)	0.95	11 (12%)	10	7	43, 63, 102, 130	0
44	CK	91/92 (98%)	1.08	13 (14%)	7	5	58, 89, 124, 136	0
45	CL	121/267 (45%)	2.70	71 (58%)	0	1	66, 107, 141, 150	0
45	i	121/267 (45%)	2.00	51 (42%)	1	1	71, 111, 146, 151	0
46	B	1756/1787 (98%)	0.91	242 (13%)	8	5	45, 91, 186, 461	0
46	CM	1765/1787 (98%)	0.75	158 (8%)	17	11	42, 87, 190, 469	0
47	C	208/261 (79%)	1.65	61 (29%)	1	1	90, 123, 151, 168	0
47	CN	208/261 (79%)	1.43	47 (22%)	3	2	67, 109, 142, 181	0
48	CO	214/256 (83%)	1.63	55 (25%)	2	2	82, 131, 155, 182	0
48	D	214/256 (83%)	1.11	28 (13%)	8	6	72, 100, 123, 135	0
49	CP	217/249 (87%)	1.11	28 (12%)	9	6	51, 78, 111, 133	0
49	E	217/249 (87%)	1.83	67 (30%)	1	1	74, 102, 127, 150	0
50	CQ	223/251 (88%)	1.14	34 (15%)	6	5	60, 84, 150, 174	0
50	F	223/251 (88%)	1.79	70 (31%)	1	1	82, 112, 162, 180	0
51	CR	260/262 (99%)	1.49	63 (24%)	2	2	70, 95, 120, 158	0
51	G	259/262 (98%)	1.88	89 (34%)	1	1	71, 105, 131, 161	0
52	CS	206/225 (91%)	1.79	65 (31%)	1	1	82, 112, 155, 202	0
52	H	206/225 (91%)	1.38	50 (24%)	2	2	78, 107, 145, 178	0
53	CT	236/236 (100%)	1.59	62 (26%)	2	2	66, 109, 153, 171	0
53	I	226/236 (95%)	1.52	48 (21%)	3	2	63, 107, 150, 195	0
54	CU	183/186 (98%)	1.54	50 (27%)	2	2	74, 142, 181, 195	0
54	J	185/186 (99%)	1.95	69 (37%)	1	1	73, 140, 167, 181	0
55	CV	203/206 (98%)	1.75	75 (36%)	1	1	47, 79, 139, 171	0
55	K	203/206 (98%)	1.59	58 (28%)	1	1	51, 88, 132, 159	0
56	CW	178/189 (94%)	2.01	71 (39%)	1	1	73, 103, 132, 149	0
56	L	178/189 (94%)	2.47	99 (55%)	0	1	82, 115, 136, 153	0
57	CX	94/118 (79%)	1.06	15 (15%)	6	4	61, 103, 143, 162	0
57	M	94/118 (79%)	1.89	35 (37%)	1	1	86, 124, 148, 163	0
58	CY	141/155 (90%)	0.91	20 (14%)	7	5	47, 72, 107, 163	0
58	N	144/155 (92%)	1.26	25 (17%)	5	4	57, 84, 122, 155	0
59	DA	150/151 (99%)	1.12	22 (14%)	7	5	60, 99, 132, 157	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å ²)	Q<0.9	
59	P	150/151 (99%)	1.12	27 (18%)	4	4	62, 100, 122, 137	0
60	DB	127/132 (96%)	1.36	26 (20%)	3	3	61, 109, 139, 148	0
60	Q	127/132 (96%)	0.98	17 (13%)	8	6	56, 87, 110, 117	0
61	DC	130/142 (91%)	1.52	37 (28%)	1	1	69, 108, 136, 162	0
61	R	129/142 (90%)	1.36	30 (23%)	2	2	73, 101, 141, 161	0
62	DD	140/142 (98%)	1.63	36 (25%)	2	2	65, 109, 142, 157	0
62	S	140/142 (98%)	1.87	53 (37%)	1	1	76, 114, 150, 161	0
63	DE	124/137 (90%)	1.76	46 (37%)	1	1	71, 130, 174, 183	0
63	T	124/137 (90%)	1.90	45 (36%)	1	1	89, 132, 176, 183	0
64	DF	141/145 (97%)	1.60	38 (26%)	2	2	61, 109, 142, 171	0
64	U	144/145 (99%)	1.21	25 (17%)	5	4	69, 89, 124, 149	0
65	DG	141/145 (97%)	1.51	40 (28%)	1	1	69, 107, 138, 160	0
65	V	141/145 (97%)	1.24	26 (18%)	4	3	82, 106, 142, 164	0
66	DH	97/119 (81%)	1.28	14 (14%)	7	5	57, 109, 133, 152	0
66	W	102/119 (85%)	1.81	37 (36%)	1	1	76, 132, 155, 163	0
67	DI	87/87 (100%)	1.13	11 (12%)	9	7	72, 94, 129, 159	0
67	X	87/87 (100%)	1.17	13 (14%)	7	5	85, 113, 136, 147	0
68	DJ	129/130 (99%)	1.06	18 (13%)	7	5	57, 74, 95, 107	0
68	Y	129/130 (99%)	1.43	32 (24%)	2	2	75, 92, 115, 123	0
69	DK	143/145 (98%)	0.92	11 (7%)	21	14	47, 72, 98, 133	0
69	Z	143/145 (98%)	1.49	36 (25%)	2	2	64, 77, 96, 122	0
70	DL	132/135 (97%)	1.52	35 (26%)	2	2	89, 118, 145, 190	0
70	a	134/135 (99%)	1.84	48 (35%)	1	1	82, 121, 140, 154	0
71	DM	71/105 (67%)	1.65	22 (30%)	1	1	104, 137, 155, 161	0
71	b	72/105 (68%)	1.22	15 (20%)	3	3	93, 114, 141, 156	0
72	DN	98/119 (82%)	1.61	33 (33%)	1	1	69, 89, 146, 156	0
72	c	98/119 (82%)	1.70	25 (25%)	2	2	71, 92, 132, 153	0
73	DO	81/82 (98%)	1.52	23 (28%)	1	1	82, 112, 180, 193	0
73	d	81/82 (98%)	1.41	17 (20%)	3	3	84, 108, 165, 181	0
74	DP	61/67 (91%)	1.65	14 (22%)	2	2	90, 117, 147, 169	0
74	e	62/67 (92%)	2.09	24 (38%)	1	1	90, 117, 146, 156	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
75	DQ	54/56 (96%)	1.24	12 (22%) 3 2	54, 74, 106, 129	0
75	f	55/56 (98%)	1.27	10 (18%) 4 3	77, 92, 120, 142	0
76	DR	58/63 (92%)	1.85	19 (32%) 1 1	73, 109, 178, 188	0
76	g	60/63 (95%)	2.16	26 (43%) 1 1	82, 114, 166, 177	0
77	DS	70/193 (36%)	2.71	48 (68%) 0 0	106, 185, 202, 224	0
77	h	70/193 (36%)	2.24	36 (51%) 0 1	133, 179, 195, 202	0
78	AR	311/317 (98%)	1.80	118 (37%) 1 1	132, 165, 186, 202	0
78	DT	311/317 (98%)	2.09	154 (49%) 0 1	112, 162, 187, 201	0
79	CZ	119/143 (83%)	1.95	56 (47%) 0 1	142, 174, 188, 196	0
79	O	39/143 (27%)	2.06	20 (51%) 0 1	167, 186, 197, 206	0
80	P0	107/312 (34%)	2.35	57 (53%) 0 1	109, 124, 138, 165	0
80	p0	61/312 (19%)	3.11	45 (73%) 0 0	112, 126, 141, 145	0
81	12	62/165 (37%)	2.08	28 (45%) 1 1	103, 127, 146, 153	0
82	L1	217/217 (100%)	1.39	58 (26%) 2 2	101, 128, 165, 236	0
82	l1	211/217 (97%)	1.63	71 (33%) 1 1	111, 135, 155, 205	0
All	All	33513/36349 (92%)	1.15	6350 (18%) 4 3	34, 89, 165, 469	2 (0%)

All (6350) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
49	E	86	ARG	18.6
49	CP	86	ARG	14.3
1	AS	3319	U	13.9
6	AY	66	TRP	13.0
56	L	138	LYS	12.7
6	AY	82	GLY	12.6
49	E	87	ALA	11.8
45	CL	81	THR	11.6
6	AY	70	ARG	11.4
6	AY	64	GLU	11.0
77	DS	127	TYR	10.9
64	DF	120	ARG	10.7
12	BE	102	MET	10.3
1	1	2453	G	10.3
6	AY	80	GLY	9.7
14	t	2	ALA	9.6
7	AZ	82	GLU	9.6

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Mol	Chain	Res	Type	RSRZ
50	F	154	ALA	9.6
1	1	2454	C	9.5
47	C	99	ALA	9.5
13	BF	115	LYS	9.5
55	K	20	GLN	9.5
35	CB	8	ARG	9.4
6	AY	69	GLY	9.3
54	J	179	PHE	9.2
1	AS	545	G	9.2
1	AS	2943	A	9.0
49	E	114	LYS	9.0
6	AY	65	SER	9.0
27	BT	26	GLU	8.9
46	B	1135	G	8.9
3	AU	111	A	8.9
35	CB	28	GLY	8.9
14	BG	2	ALA	8.9
1	AS	1204	U	8.8
30	BW	10	HIS	8.8
57	M	30	PRO	8.7
53	I	79	LYS	8.6
36	AI	120	ALA	8.5
49	E	90	ARG	8.5
1	AS	2396	G	8.4
46	B	1339	G	8.3
80	P0	26	PHE	8.3
72	DN	6	ALA	8.2
80	P0	85	GLY	8.2
30	BW	14	ARG	8.1
6	AY	61	THR	8.1
45	CL	60	ASN	8.1
6	AY	68	THR	8.1
39	CF	57	ASN	8.1
56	CW	58	ASP	8.1
56	CW	10	LYS	8.1
72	c	29	CYS	8.1
45	CL	98	ASP	8.0
72	c	90	THR	8.0
6	AY	55	GLU	8.0
51	CR	39	ARG	8.0
45	CL	84	SER	8.0
1	AS	2382	A	7.9

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Mol	Chain	Res	Type	RSRZ
48	CO	156	ALA	7.9
12	r	162	GLN	7.9
51	CR	200	LYS	7.9
8	n	169	ASP	7.8
6	AY	87	GLY	7.7
55	K	17	LYS	7.7
62	S	31	ASN	7.7
45	CL	59	GLY	7.7
6	AY	84	HIS	7.7
6	AY	72	VAL	7.6
46	CM	114	C	7.6
45	i	88	PHE	7.6
33	BZ	31	GLU	7.6
1	AS	1352	C	7.5
36	CC	102	GLU	7.5
63	T	68	GLY	7.5
59	P	7	SER	7.5
51	G	39	ARG	7.5
54	J	146	GLN	7.5
50	F	153	TYR	7.4
56	CW	48	GLN	7.4
30	BW	11	ASN	7.4
14	t	20	GLU	7.4
1	1	2436	A	7.4
56	L	151	ASP	7.4
55	CV	20	GLN	7.4
77	DS	128	THR	7.4
6	AY	88	GLN	7.4
50	F	136	GLU	7.4
4	AW	235	ALA	7.3
56	L	172	VAL	7.3
20	z	136	ARG	7.3
1	AS	2450	U	7.3
1	AS	356	C	7.3
6	AY	67	GLY	7.3
56	L	154	LYS	7.2
62	S	67	LYS	7.2
1	AS	2379	A	7.2
33	BZ	27	HIS	7.2
48	CO	120	LEU	7.1
45	i	116	GLU	7.1
14	t	4	SER	7.1

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Mol	Chain	Res	Type	RSRZ
80	p0	59	VAL	7.1
6	AY	86	SER	7.1
46	B	1047	U	7.1
35	CB	3	GLN	7.0
52	H	86	GLN	7.0
62	DD	36	THR	7.0
56	CW	62	ARG	7.0
47	CN	19	ALA	7.0
48	D	156	ALA	7.0
50	F	188	LYS	7.0
56	L	116	LEU	7.0
51	G	40	GLU	7.0
47	C	97	ALA	7.0
50	F	152	LYS	7.0
72	c	2	PRO	6.9
7	AZ	212	LEU	6.9
1	AS	2472	A	6.9
46	CM	1679	A	6.9
71	DM	37	GLN	6.9
81	12	104	ILE	6.9
6	AY	73	ALA	6.9
51	CR	198	ARG	6.9
55	CV	18	ARG	6.9
50	F	151	GLN	6.9
46	CM	1680	A	6.9
51	G	110	ALA	6.8
48	CO	155	TYR	6.8
46	CM	1703	C	6.8
49	CP	87	ALA	6.8
45	i	90	ARG	6.8
52	CS	152	SER	6.8
40	CG	12	LYS	6.8
56	CW	12	TYR	6.8
54	J	148	VAL	6.7
1	1	2157	C	6.7
65	V	69	LYS	6.7
46	B	1044	U	6.7
80	p0	41	ILE	6.7
49	E	77	LYS	6.7
63	DE	91	LEU	6.6
50	F	171	ILE	6.6
21	0	162	LEU	6.6

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Mol	Chain	Res	Type	RSRZ
48	CO	119	SER	6.6
72	c	89	ARG	6.6
41	AN	16	GLU	6.6
6	AY	89	ALA	6.6
50	F	202	ALA	6.6
82	ll	68	PHE	6.6
54	J	141	GLY	6.5
44	AQ	28	LYS	6.5
77	DS	191	LYS	6.5
53	CT	96	SER	6.5
6	AY	83	THR	6.5
35	AH	61	GLN	6.5
70	a	72	PHE	6.4
11	BD	7	ASP	6.4
28	AA	34	LYS	6.4
6	l	353	SER	6.4
10	BC	67	SER	6.4
64	DF	94	ASP	6.4
52	CS	82	PHE	6.4
1	1	3284	U	6.4
16	BI	146	ALA	6.4
53	CT	54	GLY	6.4
35	CB	10	ARG	6.4
48	CO	205	PHE	6.3
7	m	12	TYR	6.3
25	BR	27	LYS	6.3
64	DF	118	LYS	6.3
6	AY	81	GLY	6.3
62	S	32	GLY	6.3
45	CL	65	LYS	6.3
49	CP	89	GLN	6.3
66	W	81	TYR	6.3
45	CL	62	ALA	6.3
60	DB	85	LYS	6.3
6	AY	62	SER	6.3
46	B	1359	U	6.2
54	J	178	VAL	6.2
6	AY	363	ASN	6.2
7	m	8	ARG	6.2
7	m	24	GLN	6.2
56	L	13	SER	6.2
7	AZ	55	PHE	6.2

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Mol	Chain	Res	Type	RSRZ
41	CH	52	LYS	6.2
20	z	133	LYS	6.2
51	G	78	THR	6.2
46	CM	1698	U	6.1
63	T	66	VAL	6.1
55	CV	17	LYS	6.1
15	u	130	LYS	6.1
6	l	352	PRO	6.1
46	CM	724	G	6.1
35	AH	33	GLN	6.1
39	CF	2	ALA	6.1
52	CS	71	SER	6.1
78	DT	245	ASN	6.1
29	BV	52	TYR	6.1
1	1	1127	G	6.1
1	AS	2784	C	6.1
70	DL	99	LYS	6.0
6	AY	75	ILE	6.0
80	P0	77	LEU	6.0
18	BK	135	ARG	6.0
30	AC	21	ILE	6.0
56	L	35	GLY	6.0
46	B	1624	C	6.0
49	E	115	GLU	6.0
6	AY	79	GLY	6.0
38	CE	23	GLY	6.0
78	DT	294	ASP	6.0
45	CL	75	PRO	6.0
20	z	68	GLU	6.0
74	e	50	GLU	6.0
1	AS	2480	A	5.9
73	d	27	GLN	5.9
46	B	1618	A	5.9
78	AR	260	PHE	5.9
80	p0	55	LYS	5.9
45	CL	61	GLU	5.9
76	g	47	VAL	5.9
26	BS	36	LYS	5.9
36	CC	91	LYS	5.9
49	E	93	MET	5.9
50	CQ	150	SER	5.9
18	BK	2	VAL	5.9

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Mol	Chain	Res	Type	RSRZ
77	DS	181	GLN	5.9
26	BS	48	ARG	5.8
51	CR	205	PHE	5.8
57	M	25	LYS	5.8
74	DP	49	ARG	5.8
1	AS	664	A	5.8
7	AZ	7	PHE	5.8
35	CB	17	SER	5.8
47	C	80	THR	5.8
77	DS	146	THR	5.8
6	AY	76	PRO	5.7
8	n	174	LEU	5.7
73	DO	30	SER	5.7
14	t	17	HIS	5.7
45	CL	73	VAL	5.7
47	C	127	ARG	5.7
45	CL	85	LYS	5.7
6	l	64	GLU	5.7
12	r	55	ASN	5.7
4	AW	232	GLY	5.7
36	CC	75	TYR	5.7
80	P0	78	PRO	5.7
70	DL	122	GLN	5.7
77	h	126	VAL	5.7
60	Q	120	SER	5.7
1	AS	2847	U	5.7
43	AP	40	LYS	5.7
49	E	79	ARG	5.7
58	N	93	TYR	5.6
54	J	127	PHE	5.6
49	E	80	SER	5.6
55	CV	19	ALA	5.6
69	Z	21	ASN	5.6
33	BZ	35	LYS	5.6
6	AY	74	ARG	5.6
24	6	88	ARG	5.6
74	e	17	GLY	5.6
1	AS	655	A	5.6
66	DH	81	TYR	5.6
10	p	62	GLN	5.6
53	I	80	GLY	5.6
1	AS	1487	A	5.6

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Mol	Chain	Res	Type	RSRZ
46	CM	1743	A	5.6
39	CF	22	SER	5.6
1	AS	2473	C	5.5
35	CB	29	LYS	5.5
76	g	54	ARG	5.5
27	BT	20	PHE	5.5
76	g	56	MET	5.5
80	p0	58	MET	5.5
6	l	363	ASN	5.5
19	BL	166	LEU	5.5
41	AN	52	LYS	5.5
53	I	135	PRO	5.5
7	AZ	58	LYS	5.5
13	BF	116	TYR	5.5
80	P0	25	ILE	5.5
14	BG	10	LEU	5.5
30	BW	23	LYS	5.5
45	CL	100	LYS	5.5
6	AY	77	ARG	5.5
5	AX	139	THR	5.5
50	F	173	ILE	5.5
78	AR	101	THR	5.5
16	BI	204	SER	5.5
1	AS	2378	G	5.5
1	AS	2926	U	5.5
45	CL	66	ASN	5.5
52	CS	59	VAL	5.5
56	CW	14	VAL	5.5
80	p0	35	SER	5.5
30	BW	33	LYS	5.4
41	CH	49	LYS	5.4
50	F	149	LYS	5.4
56	L	15	PRO	5.4
77	DS	145	LEU	5.4
7	m	283	GLN	5.4
33	BZ	36	GLN	5.4
1	1	1552	C	5.4
53	I	131	LYS	5.4
22	BO	81	GLY	5.4
46	CM	1135	G	5.4
78	DT	6	VAL	5.4
44	AQ	25	GLN	5.4

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Mol	Chain	Res	Type	RSRZ
4	AW	2	GLY	5.4
19	y	169	GLY	5.4
26	BS	25	LYS	5.4
50	F	168	PHE	5.4
51	G	47	PHE	5.4
53	CT	69	HIS	5.4
56	CW	74	ASN	5.4
55	K	62	THR	5.4
1	1	1188	C	5.4
1	AS	1024	U	5.4
27	BT	18	ALA	5.4
46	CM	725	A	5.4
46	CM	1480	G	5.4
80	p0	2	GLY	5.4
64	DF	117	LYS	5.3
45	CL	83	HIS	5.3
3	AU	21	C	5.3
74	e	45	LYS	5.3
80	P0	79	PHE	5.3
46	B	1410	A	5.3
56	CW	51	LYS	5.3
46	B	1038	G	5.3
51	CR	157	ASN	5.3
62	S	65	ARG	5.3
53	I	208	TYR	5.3
78	AR	280	THR	5.3
80	p0	11	TYR	5.3
78	DT	244	PRO	5.3
6	l	80	GLY	5.3
49	E	92	ARG	5.3
73	DO	29	ARG	5.3
19	y	95	GLU	5.3
69	Z	57	ILE	5.3
1	1	545	G	5.3
52	H	72	HIS	5.3
35	AH	35	VAL	5.3
56	CW	47	PHE	5.2
1	AS	357	A	5.2
1	AS	1584	A	5.2
29	BV	7	LYS	5.2
50	CQ	149	LYS	5.2
1	1	1263	U	5.2

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Mol	Chain	Res	Type	RSRZ
70	a	63	GLN	5.2
54	J	136	VAL	5.2
76	g	39	LEU	5.2
12	r	164	LYS	5.2
14	t	21	ARG	5.2
22	BO	2	GLY	5.2
56	L	14	VAL	5.2
1	AS	1842	C	5.2
16	v	6	TYR	5.2
56	CW	11	THR	5.2
6	l	71	ALA	5.2
7	m	6	GLU	5.2
67	DI	41	GLU	5.2
78	AR	208	CYS	5.2
6	AY	245	LEU	5.2
6	AY	91	PHE	5.2
29	BV	20	GLY	5.2
77	h	170	ALA	5.2
19	BL	7	SER	5.2
28	BU	31	GLU	5.2
77	h	150	VAL	5.2
6	AY	63	ALA	5.1
6	AY	71	ALA	5.1
46	CM	1081	C	5.1
25	BR	41	GLN	5.1
46	B	724	G	5.1
6	l	154	SER	5.1
80	p0	51	VAL	5.1
35	AH	19	LYS	5.1
56	L	29	LYS	5.1
39	CF	29	ALA	5.1
54	J	147	LYS	5.1
19	BL	12	ARG	5.1
6	AY	361	LEU	5.1
35	CB	30	LEU	5.1
36	AI	84	LYS	5.1
5	k	330	GLY	5.1
53	CT	74	ARG	5.1
59	DA	62	GLN	5.1
69	Z	39	LYS	5.1
78	DT	80	TYR	5.1
55	CV	137	ALA	5.1

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Mol	Chain	Res	Type	RSRZ
31	BX	106	ILE	5.1
12	r	12	CYS	5.1
36	CC	84	LYS	5.1
49	E	210	PHE	5.0
15	u	131	ALA	5.0
82	ll	165	LEU	5.0
52	H	70	VAL	5.0
69	Z	17	VAL	5.0
1	1	1561	U	5.0
46	CM	247	U	5.0
69	Z	16	ARG	5.0
69	Z	31	ALA	5.0
70	a	67	GLY	5.0
41	AN	12	LYS	5.0
1	AS	801	G	5.0
54	J	149	LEU	5.0
80	P0	35	SER	5.0
55	CV	103	GLN	5.0
56	L	153	GLN	5.0
7	AZ	59	ASP	5.0
54	J	135	ARG	5.0
46	B	1081	C	5.0
16	BI	6	TYR	5.0
19	BL	20	LYS	5.0
47	CN	15	LYS	5.0
47	CN	128	THR	5.0
72	c	19	LYS	5.0
7	AZ	81	HIS	5.0
4	AW	247	ARG	5.0
69	Z	27	GLN	5.0
41	AN	34	CYS	5.0
45	i	41	ALA	5.0
7	AZ	156	GLY	5.0
45	CL	103	LEU	5.0
51	G	44	LEU	5.0
52	CS	154	THR	5.0
1	AS	917	A	5.0
74	e	15	VAL	5.0
17	w	2	SER	5.0
63	DE	123	SER	5.0
52	H	177	ILE	5.0
56	L	137	GLY	5.0

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Mol	Chain	Res	Type	RSRZ
74	e	46	GLY	5.0
46	CM	1697	C	4.9
4	j	250	GLN	4.9
50	F	150	SER	4.9
78	DT	296	GLN	4.9
46	CM	988	A	4.9
47	CN	171	GLY	4.9
48	CO	143	THR	4.9
1	1	1264	G	4.9
1	AS	1489	G	4.9
19	BL	168	LYS	4.9
35	AH	36	LYS	4.9
46	B	1348	U	4.9
47	C	134	LYS	4.9
78	DT	231	LEU	4.9
44	AQ	24	ARG	4.9
53	CT	222	GLU	4.9
10	BC	132	VAL	4.9
39	CF	78	LEU	4.9
30	AC	4	SER	4.9
46	B	1614	U	4.9
62	DD	48	TYR	4.9
46	CM	1357	A	4.9
59	P	57	ALA	4.9
81	12	113	ALA	4.9
74	e	16	LEU	4.9
80	p0	33	VAL	4.9
66	W	79	ASP	4.9
60	Q	88	THR	4.9
45	i	103	LEU	4.9
79	O	78	LEU	4.9
28	BU	123	GLN	4.9
56	L	82	ARG	4.9
40	CG	9	THR	4.8
54	CU	132	ILE	4.8
49	E	220	LEU	4.8
1	1	1197	C	4.8
45	i	109	GLN	4.8
1	AS	1829	G	4.8
7	m	233	SER	4.8
45	i	61	GLU	4.8
46	B	1005	A	4.8

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Mol	Chain	Res	Type	RSRZ
81	12	121	PHE	4.8
14	t	11	ASN	4.8
29	BV	21	ARG	4.8
5	k	377[A]	HIS	4.8
51	G	43	PRO	4.8
69	Z	58	GLY	4.8
30	AC	22	LYS	4.8
46	B	1045	U	4.8
50	F	191	LYS	4.8
38	CE	18	LEU	4.8
7	m	217	GLU	4.8
1	AS	2783	A	4.8
10	BC	183	GLY	4.8
56	L	16	LYS	4.8
78	AR	269	ASP	4.8
1	AS	2447	G	4.8
1	AS	2453	G	4.8
51	G	205	PHE	4.8
54	J	88	PHE	4.8
51	G	153	LEU	4.8
49	E	113	ALA	4.8
49	E	161	ALA	4.8
10	BC	100	PRO	4.8
53	CT	79	LYS	4.8
74	DP	51	ASN	4.8
7	AZ	151	GLN	4.7
44	CK	25	GLN	4.7
26	8	36	LYS	4.7
28	BU	133	LYS	4.7
45	CL	96	LYS	4.7
7	AZ	269	SER	4.7
53	CT	29	GLU	4.7
19	BL	5	HIS	4.7
76	DR	56	MET	4.7
46	CM	726	C	4.7
72	DN	89	ARG	4.7
56	L	150	LEU	4.7
58	N	60	PHE	4.7
56	CW	65	LYS	4.7
56	L	32	GLY	4.7
14	BG	12	ASN	4.7
1	1	2089	G	4.7

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Mol	Chain	Res	Type	RSRZ
14	BG	73	ARG	4.7
18	x	136	ILE	4.7
27	9	120	GLN	4.7
35	CB	33	GLN	4.7
57	M	26	ASP	4.7
19	y	159	LYS	4.7
25	BR	108	LYS	4.7
53	CT	224	ALA	4.7
1	AS	2470	C	4.7
46	B	726	C	4.7
7	AZ	169	GLY	4.7
8	n	1	MET	4.7
45	CL	95	GLY	4.7
80	p0	57	THR	4.7
74	DP	53	ILE	4.7
44	AQ	27	LYS	4.7
54	CU	176	GLN	4.7
7	AZ	226	TYR	4.7
52	CS	52	GLU	4.7
52	H	28	THR	4.7
79	CZ	36	LEU	4.7
80	p0	15	LEU	4.7
61	DC	50	ASP	4.7
56	L	12	TYR	4.7
77	h	127	TYR	4.7
6	AY	109	ARG	4.6
13	s	51	ARG	4.6
49	CP	174	VAL	4.6
52	CS	112	ARG	4.6
77	h	171	GLY	4.6
10	BC	202	THR	4.6
44	CK	28	LYS	4.6
54	J	21	PHE	4.6
1	AS	2744	C	4.6
1	1	1816	U	4.6
47	C	174	TRP	4.6
55	K	18	ARG	4.6
26	BS	35	PRO	4.6
36	CC	36	LEU	4.6
45	i	64	LEU	4.6
6	AY	186	LYS	4.6
24	BQ	64	LYS	4.6

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Mol	Chain	Res	Type	RSRZ
23	BP	57	THR	4.6
56	CW	61	THR	4.6
1	1	1562	G	4.6
16	v	153	ASN	4.6
6	AY	85	ARG	4.6
80	P0	28	VAL	4.6
80	p0	3	GLY	4.6
8	n	165	LEU	4.6
10	BC	184	LYS	4.6
27	BT	30	LEU	4.6
45	i	65	LYS	4.6
74	DP	45	LYS	4.6
80	p0	18	LEU	4.6
48	CO	122	GLU	4.6
50	CQ	173	ILE	4.6
56	L	123	HIS	4.6
13	s	125	MET	4.6
10	BC	131	VAL	4.6
13	BF	124	GLY	4.6
56	CW	19	TYR	4.6
56	L	18	PRO	4.6
57	M	24	LYS	4.6
40	AM	32	ASP	4.6
1	1	2467	C	4.6
1	AS	402	A	4.6
64	U	145	ARG	4.6
61	DC	52	LYS	4.6
7	AZ	219	TYR	4.6
38	AK	2	GLY	4.6
77	h	148	TYR	4.6
78	AR	138	ILE	4.6
69	Z	36	THR	4.6
18	BK	126	ARG	4.6
55	K	22	ARG	4.6
76	g	37	ARG	4.6
20	z	67	LYS	4.5
33	AF	9	LYS	4.5
53	I	193	LYS	4.5
25	7	41	GLN	4.5
25	7	79	GLN	4.5
48	D	157	GLN	4.5
49	E	89	GLN	4.5

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Mol	Chain	Res	Type	RSRZ
68	Y	26	LEU	4.5
76	DR	49	LEU	4.5
30	AC	6	ASN	4.5
12	r	11	TYR	4.5
67	X	58	TYR	4.5
45	CL	79	THR	4.5
72	DN	3	LYS	4.5
28	BU	14	VAL	4.5
82	L1	13	VAL	4.5
1	1	2950	U	4.5
1	AS	1602	U	4.5
54	CU	146	GLN	4.5
13	BF	114	ILE	4.5
6	AY	59	HIS	4.5
16	BI	158	HIS	4.5
49	CP	83	LYS	4.5
74	e	53	ILE	4.5
16	BI	198	SER	4.5
46	B	1340	C	4.5
70	a	8	ARG	4.5
37	CD	47	ALA	4.5
77	h	143	ALA	4.5
46	B	715	G	4.5
46	CM	1099	G	4.5
18	x	2	VAL	4.5
62	S	37	LEU	4.5
81	12	112	ILE	4.5
4	AW	47	GLN	4.5
35	CB	64	GLN	4.5
76	DR	60	PRO	4.5
7	AZ	119	TYR	4.5
76	g	42	ARG	4.5
18	BK	89	ASN	4.5
32	BY	26	LYS	4.5
46	CM	1652	U	4.5
53	CT	77	LEU	4.5
78	DT	228	LEU	4.5
51	CR	184	THR	4.5
76	g	48	THR	4.5
13	BF	74	PRO	4.5
23	BP	15	PHE	4.5
52	H	170	GLN	4.5

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Mol	Chain	Res	Type	RSRZ
24	6	35	TYR	4.5
61	R	97	TYR	4.5
45	CL	92	SER	4.5
72	DN	21	VAL	4.4
81	12	125	LEU	4.4
20	z	152	GLU	4.4
51	G	60	GLU	4.4
56	CW	64	GLU	4.4
10	p	238	ILE	4.4
46	B	708	A	4.4
49	E	78	ILE	4.4
78	DT	38	ARG	4.4
7	AZ	84	PRO	4.4
8	n	171	PRO	4.4
53	I	210	GLN	4.4
78	DT	247	TYR	4.4
51	G	2	ALA	4.4
46	CM	1765	G	4.4
36	CC	48	ARG	4.4
46	B	1292	U	4.4
46	CM	113	U	4.4
5	k	96	PRO	4.4
52	CS	76	LYS	4.4
1	AS	2454	C	4.4
80	P0	22	TYR	4.4
10	BC	243	ALA	4.4
51	G	157	ASN	4.4
18	x	128	ARG	4.4
38	CE	2	GLY	4.4
1	AS	2455	G	4.4
10	BC	97	LYS	4.4
52	H	145	ASP	4.4
66	W	78	TRP	4.4
56	L	48	GLN	4.4
63	T	21	TYR	4.4
67	DI	47	ALA	4.4
49	E	178	VAL	4.4
1	AS	1197	C	4.4
51	G	59	ARG	4.4
51	CR	37	LYS	4.4
65	DG	20	GLN	4.4
46	B	711	U	4.4

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Mol	Chain	Res	Type	RSRZ
47	C	155	TYR	4.4
53	CT	179	VAL	4.4
24	BQ	112	SER	4.4
35	AH	79	SER	4.4
35	CB	36	LYS	4.4
1	AS	1918	A	4.4
6	AY	58	GLY	4.4
17	w	155	GLU	4.4
7	m	38	THR	4.4
27	BT	21	THR	4.4
56	CW	70	LEU	4.3
13	BF	107	ASP	4.3
68	DJ	74	VAL	4.3
13	BF	145	ARG	4.3
18	BK	128	ARG	4.3
1	AS	2471	U	4.3
18	BK	136	ILE	4.3
25	BR	60	LYS	4.3
50	F	116	ILE	4.3
52	CS	62	ILE	4.3
53	I	226	ILE	4.3
64	DF	119	ILE	4.3
10	BC	119	GLU	4.3
22	BO	101	CYS	4.3
45	CL	36	SER	4.3
46	B	1480	G	4.3
46	CM	701	G	4.3
41	CH	14	ASN	4.3
30	BW	8	THR	4.3
57	M	88	PRO	4.3
77	h	128	THR	4.3
65	DG	50	ALA	4.3
21	BN	160	LYS	4.3
39	CF	6	LYS	4.3
48	CO	55	LYS	4.3
48	CO	30	PHE	4.3
12	r	58	GLU	4.3
46	B	779	U	4.3
46	CM	1270	U	4.3
46	CM	1359	U	4.3
69	Z	40	SER	4.3
14	t	9	LEU	4.3

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Mol	Chain	Res	Type	RSRZ
38	CE	13	ASN	4.3
51	G	26	THR	4.3
77	DS	190	LEU	4.3
82	ll	136	THR	4.3
45	i	107	TRP	4.3
54	CU	90	ALA	4.3
56	CW	69	ARG	4.3
22	BO	3	LYS	4.3
35	AH	21	LYS	4.3
46	B	714	G	4.3
74	e	14	LYS	4.3
14	BG	102	GLN	4.3
46	CM	1702	A	4.3
55	CV	188	TYR	4.3
48	CO	54	LEU	4.3
48	CO	163	GLU	4.3
54	J	123	GLU	4.3
12	r	102	MET	4.3
45	i	84	SER	4.3
49	CP	159	SER	4.3
39	CF	30	LYS	4.3
51	CR	127	LYS	4.3
13	BF	39	GLN	4.3
40	CG	51	ILE	4.3
43	AP	44	ASP	4.3
63	DE	108	ASP	4.3
1	AS	1262	G	4.3
43	CJ	51	GLY	4.3
46	CM	814	A	4.3
46	CM	1678	G	4.3
1	AS	1192	C	4.3
46	B	1090	C	4.3
56	L	171	ARG	4.3
56	CW	18	PRO	4.3
33	BZ	9	LYS	4.3
50	F	206	ALA	4.3
56	L	111	THR	4.3
56	L	115	LYS	4.3
69	Z	28	ALA	4.3
78	DT	28	ALA	4.3
78	DT	241	ALA	4.3
46	B	713	U	4.3

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Mol	Chain	Res	Type	RSRZ
52	CS	77	TYR	4.3
63	T	42	GLN	4.3
78	DT	162	GLN	4.3
53	I	212	LEU	4.3
57	CX	2	LEU	4.3
48	D	162	ARG	4.2
23	5	107	LYS	4.2
30	BW	22	LYS	4.2
78	DT	8	VAL	4.2
79	CZ	90	LYS	4.2
1	AS	155	A	4.2
1	AS	1256	A	4.2
6	AY	90	ALA	4.2
38	AK	41	ALA	4.2
82	ll	23	THR	4.2
1	AS	792	U	4.2
7	m	16	PHE	4.2
47	C	102	PHE	4.2
19	y	94	LEU	4.2
52	H	76	LYS	4.2
27	9	29	VAL	4.2
45	CL	34	THR	4.2
27	9	78	PHE	4.2
79	CZ	120	CYS	4.2
7	m	150	LEU	4.2
64	U	30	TYR	4.2
65	DG	55	TYR	4.2
1	1	1556	G	4.2
55	K	169	GLY	4.2
41	CH	41	HIS	4.2
63	T	63	LYS	4.2
1	AS	544	U	4.2
50	F	137	VAL	4.2
41	CH	25	ALA	4.2
28	BU	109	GLU	4.2
82	L1	136	THR	4.2
27	BT	76	LEU	4.2
51	G	56	LEU	4.2
1	AS	1023	A	4.2
7	m	289	LYS	4.2
12	r	114	GLY	4.2
19	y	118	GLY	4.2

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Mol	Chain	Res	Type	RSRZ
45	CL	37	LYS	4.2
47	C	204	TYR	4.2
66	DH	93	GLN	4.2
46	B	725	A	4.2
76	g	3	LYS	4.2
82	L1	202	GLY	4.2
46	B	1621	C	4.2
35	CB	39	ALA	4.2
72	c	33	ASP	4.2
1	1	2428	G	4.2
1	AS	1557	U	4.2
13	BF	122	ILE	4.2
46	CM	632	G	4.2
82	L1	120	ILE	4.2
78	DT	201	LEU	4.2
6	l	3	SER	4.2
14	BG	131	LYS	4.2
45	i	33	ASN	4.2
57	M	85	GLY	4.2
72	c	20	PRO	4.2
36	CC	109	ILE	4.2
47	C	170	ILE	4.2
81	12	109	ILE	4.2
82	L1	111	ILE	4.2
45	CL	97	THR	4.2
46	B	1356	U	4.2
53	CT	72	ARG	4.2
1	AS	249	G	4.1
46	CM	723	G	4.1
12	r	130	SER	4.1
51	G	58	GLY	4.1
51	G	223	SER	4.1
6	AY	202	GLN	4.1
52	CS	86	GLN	4.1
80	p0	38	MET	4.1
72	c	18	VAL	4.1
74	e	51	ASN	4.1
81	12	162	VAL	4.1
55	CV	185	CYS	4.1
63	DE	90	ALA	4.1
74	e	55	CYS	4.1
62	DD	30	ILE	4.1

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Mol	Chain	Res	Type	RSRZ
14	BG	20	GLU	4.1
36	CC	108	ARG	4.1
1	AS	1478	A	4.1
41	AN	51	LEU	4.1
44	AQ	29	LEU	4.1
50	F	186	LYS	4.1
6	l	91	PHE	4.1
54	CU	88	PHE	4.1
33	AF	50	THR	4.1
1	1	1204	U	4.1
1	1	1545	U	4.1
46	B	1091	U	4.1
46	CM	1766	U	4.1
57	M	19	GLY	4.1
23	BP	17	VAL	4.1
49	CP	84	GLN	4.1
62	S	2	SER	4.1
62	DD	68	VAL	4.1
78	DT	216	VAL	4.1
52	CS	85	ALA	4.1
16	BI	108	ARG	4.1
47	CN	41	ARG	4.1
6	AY	105	LYS	4.1
10	BC	150	LYS	4.1
38	AK	51	LEU	4.1
72	c	3	LYS	4.1
7	m	7	PHE	4.1
23	BP	98	PHE	4.1
56	L	71	PHE	4.1
75	DQ	8	PHE	4.1
78	DT	94	ASP	4.1
78	DT	161	ASP	4.1
10	p	236	GLY	4.1
55	CV	80	GLY	4.1
77	DS	144	VAL	4.1
40	CG	4	GLN	4.1
18	x	133	HIS	4.1
33	BZ	30	ALA	4.1
45	CL	110	SER	4.1
78	DT	115	SER	4.1
1	1	2474	C	4.1
1	AS	2474	C	4.1

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Mol	Chain	Res	Type	RSRZ
82	l1	100	ILE	4.1
44	CK	13	LYS	4.1
45	CL	82	LYS	4.1
64	U	54	LEU	4.1
80	P0	19	LEU	4.1
32	BY	46	THR	4.1
48	CO	154	THR	4.1
51	G	79	ASP	4.1
77	DS	177	MET	4.1
82	L1	211	GLY	4.1
5	AX	143	GLN	4.1
37	CD	8	ALA	4.1
1	AS	1021	A	4.1
5	AX	256	HIS	4.1
5	k	5	LYS	4.1
26	8	97	SER	4.1
43	CJ	84	PRO	4.1
48	D	159	SER	4.1
55	K	201	ARG	4.1
70	DL	127	LYS	4.1
4	j	246	LEU	4.1
26	BS	38	LEU	4.1
36	AI	88	LEU	4.1
13	BF	78	GLU	4.1
51	CR	202	GLU	4.1
6	AY	112	VAL	4.1
49	E	88	GLY	4.1
52	CS	70	VAL	4.1
63	T	25	THR	4.1
79	CZ	116	VAL	4.1
16	BI	81	TYR	4.1
67	DI	45	ALA	4.1
70	DL	131	ARG	4.1
78	DT	290	ALA	4.1
8	BA	3	GLN	4.1
56	CW	16	LYS	4.1
1	AS	2429	G	4.1
46	CM	1546	G	4.1
46	CM	1700	G	4.1
80	p0	52	LEU	4.1
48	D	158	SER	4.1
52	H	71	SER	4.1

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Mol	Chain	Res	Type	RSRZ
10	p	166	PHE	4.1
1	1	1560	U	4.0
54	J	130	GLU	4.0
46	B	1406	C	4.0
41	CH	30	ARG	4.0
70	DL	111	LYS	4.0
82	L1	173	ASP	4.0
63	T	69	ILE	4.0
6	AY	352	PRO	4.0
50	F	200	PRO	4.0
45	i	45	SER	4.0
82	l1	79	SER	4.0
5	AX	259	ASN	4.0
78	DT	17	ASN	4.0
1	1	1262	G	4.0
1	1	2341	A	4.0
46	B	215	A	4.0
8	n	170	ARG	4.0
46	B	1615	U	4.0
73	DO	53	ALA	4.0
22	2	18	ASP	4.0
7	m	226	TYR	4.0
14	BG	9	LEU	4.0
43	AP	104	LEU	4.0
43	CJ	44	ASP	4.0
48	D	54	LEU	4.0
78	AR	39	ASP	4.0
64	U	2	PRO	4.0
11	BD	5	GLN	4.0
52	CS	170	GLN	4.0
39	CF	43	PHE	4.0
37	AJ	96	SER	4.0
64	DF	121	SER	4.0
14	BG	6	ASN	4.0
53	I	197	ASN	4.0
79	CZ	115	VAL	4.0
10	BC	162	GLU	4.0
16	BI	176	LYS	4.0
24	6	64	LYS	4.0
28	AA	102	GLU	4.0
61	DC	110	GLU	4.0
78	AR	15	GLY	4.0

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Mol	Chain	Res	Type	RSRZ
64	U	140	THR	4.0
78	AR	253	THR	4.0
52	CS	97	LEU	4.0
82	ll	124	LEU	4.0
1	AS	85	G	4.0
55	K	53	GLN	4.0
51	CR	175	PHE	4.0
53	CT	61	PHE	4.0
3	4	91	C	4.0
6	l	13	LYS	4.0
32	BY	30	LYS	4.0
36	AI	91	LYS	4.0
60	Q	31	LYS	4.0
76	DR	7	SER	4.0
6	l	107	TRP	4.0
61	R	113	GLY	4.0
36	CC	18	GLU	4.0
64	DF	114	GLU	4.0
50	CQ	202	ALA	4.0
68	Y	27	ILE	4.0
80	p0	45	LEU	4.0
51	G	103	TYR	4.0
12	BE	113	GLN	4.0
50	CQ	205	ASP	4.0
53	CT	144	PHE	4.0
70	a	135	ASP	4.0
82	ll	110	PHE	4.0
46	B	1	U	4.0
1	1	1099	A	4.0
1	AS	802	A	4.0
38	CE	24	ARG	4.0
56	L	37	LYS	4.0
61	R	85	VAL	4.0
76	DR	55	LYS	4.0
1	AS	2387	G	4.0
46	B	1134	G	4.0
19	BL	169	GLY	4.0
2	AT	73	C	4.0
12	r	166	ILE	4.0
24	BQ	9	ASN	4.0
28	AA	11	ALA	4.0
39	CF	41	THR	4.0

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Mol	Chain	Res	Type	RSRZ
58	CY	63	THR	4.0
33	BZ	18	PHE	3.9
64	DF	128	PHE	3.9
78	DT	299	PHE	3.9
10	BC	192	HIS	3.9
57	CX	12	HIS	3.9
70	a	22	GLN	3.9
10	BC	49	ARG	3.9
29	BV	34	LYS	3.9
49	E	76	MET	3.9
54	J	134	LYS	3.9
63	DE	11	ARG	3.9
64	U	48	LYS	3.9
65	DG	92	LYS	3.9
78	AR	38	ARG	3.9
72	DN	18	VAL	3.9
1	1	2336	A	3.9
49	CP	88	GLY	3.9
14	t	3	ILE	3.9
47	C	87	LEU	3.9
22	BO	86	GLU	3.9
41	CH	16	GLU	3.9
1	1	3034	G	3.9
41	AN	28	PRO	3.9
1	AS	2451	C	3.9
40	AM	21	ARG	3.9
8	n	168	GLY	3.9
60	DB	125	GLY	3.9
31	BX	95	LEU	3.9
51	G	249	ILE	3.9
54	CU	168	LEU	3.9
1	1	1557	U	3.9
46	CM	1459	U	3.9
76	DR	61	ALA	3.9
18	BK	137	ASN	3.9
55	K	21	PHE	3.9
78	DT	314	THR	3.9
37	CD	55	ARG	3.9
52	H	65	ARG	3.9
54	CU	105	GLN	3.9
66	W	50	VAL	3.9
46	B	1700	G	3.9

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Mol	Chain	Res	Type	RSRZ
11	BD	176	LEU	3.9
12	r	132	GLY	3.9
41	CH	51	LEU	3.9
62	S	119	ASP	3.9
76	g	49	LEU	3.9
82	ll	120	ILE	3.9
27	9	32	SER	3.9
1	1	1024	U	3.9
14	BG	48	PRO	3.9
28	BU	82	PRO	3.9
46	B	1043	U	3.9
46	CM	1	U	3.9
55	CV	201	ARG	3.9
82	ll	43	PRO	3.9
1	1	1116	A	3.9
53	CT	28	TYR	3.9
63	DE	119	VAL	3.9
71	DM	40	VAL	3.9
55	CV	111	GLN	3.9
48	CO	207	LEU	3.9
78	DT	207	LEU	3.9
49	CP	151	CYS	3.9
68	Y	127	GLY	3.9
80	p0	47	GLY	3.9
14	BG	98	ASP	3.9
1	AS	1257	G	3.9
1	AS	2452	G	3.9
49	E	83	LYS	3.9
60	DB	124	LYS	3.9
49	CP	90	ARG	3.9
53	I	222	GLU	3.9
56	L	3	ARG	3.9
79	CZ	119	SER	3.9
80	p0	68	SER	3.9
6	AY	56	ASN	3.9
78	DT	223	ASN	3.9
26	8	108	LEU	3.9
57	M	17	GLN	3.9
11	BD	178	GLY	3.9
80	P0	80	ILE	3.9
77	DS	168	CYS	3.9
11	q	174	LYS	3.9

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Mol	Chain	Res	Type	RSRZ
11	BD	61	ASP	3.9
77	DS	178	LYS	3.9
20	BM	152	GLU	3.8
47	CN	155	TYR	3.8
41	CH	2	ILE	3.8
78	DT	259	ILE	3.8
1	AS	2743	U	3.8
6	l	58	GLY	3.8
12	r	59	GLN	3.8
78	DT	263	GLN	3.8
47	CN	165	LYS	3.8
51	G	6	LYS	3.8
53	I	205	ALA	3.8
55	K	19	ALA	3.8
78	AR	282	LYS	3.8
55	K	11	ARG	3.8
11	BD	45	PHE	3.8
46	B	357	A	3.8
10	BC	130	PRO	3.8
6	AY	78	VAL	3.8
10	BC	133	VAL	3.8
10	p	67	SER	3.8
28	AA	35	SER	3.8
52	CS	151	SER	3.8
76	g	50	THR	3.8
62	S	30	ILE	3.8
69	Z	18	HIS	3.8
78	AR	80	TYR	3.8
1	1	1577	C	3.8
6	AY	164	LYS	3.8
7	AZ	78	ALA	3.8
35	CB	61	GLN	3.8
78	DT	261	LYS	3.8
1	1	3174	G	3.8
1	AS	2459	G	3.8
46	CM	1431	G	3.8
12	BE	199	PHE	3.8
47	C	81	PHE	3.8
79	CZ	100	TRP	3.8
7	AZ	147	ASP	3.8
61	DC	111	MET	3.8
64	DF	73	MET	3.8

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Mol	Chain	Res	Type	RSRZ
8	BA	4	VAL	3.8
10	BC	152	VAL	3.8
48	D	192	VAL	3.8
1	1	2427	A	3.8
1	AS	1889	A	3.8
45	CL	115	LEU	3.8
70	a	28	LEU	3.8
54	J	132	ILE	3.8
63	DE	8	THR	3.8
28	BU	35	SER	3.8
52	H	75	GLY	3.8
57	M	72	GLY	3.8
61	R	99	GLY	3.8
7	AZ	80	ALA	3.8
10	BC	155	ALA	3.8
14	t	153	ALA	3.8
20	z	63	ALA	3.8
39	CF	40	GLN	3.8
1	AS	2448	C	3.8
1	AS	2782	C	3.8
10	BC	166	PHE	3.8
46	B	131	C	3.8
70	a	23	PHE	3.8
53	CT	63	MET	3.8
46	CM	278	U	3.8
53	I	114	VAL	3.8
77	DS	156	VAL	3.8
4	j	96	LEU	3.8
50	CQ	217	GLU	3.8
54	CU	89	LEU	3.8
61	DC	49	LEU	3.8
71	DM	42	LEU	3.8
1	1	3298	G	3.8
1	AS	1226	G	3.8
1	AS	1277	G	3.8
6	AY	320	LYS	3.8
41	CH	48	LYS	3.8
45	i	85	LYS	3.8
46	CM	1650	G	3.8
58	CY	32	LYS	3.8
78	DT	199	ILE	3.8
8	n	2	SER	3.8

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Mol	Chain	Res	Type	RSRZ
16	BI	163	GLY	3.8
19	BL	167	SER	3.8
45	i	83	HIS	3.8
52	H	166	ARG	3.8
45	CL	42	ALA	3.8
46	B	350	A	3.8
65	DG	41	ALA	3.8
53	I	4	ASN	3.8
69	Z	10	ASN	3.8
76	g	46	ASN	3.8
14	t	19	GLN	3.8
22	BO	19	PHE	3.8
6	AY	24	PRO	3.8
49	E	48	VAL	3.8
55	CV	145	VAL	3.8
62	S	51	LEU	3.8
68	DJ	77	PRO	3.8
80	p0	30	VAL	3.8
35	AH	30	LEU	3.8
46	B	1612	C	3.8
18	BK	53	ASP	3.8
23	5	77	LYS	3.8
54	J	180	GLU	3.8
45	CL	111	ASP	3.8
1	AS	1091	U	3.8
1	AS	1560	U	3.8
1	AS	1890	U	3.8
4	j	175	ILE	3.8
77	DS	125	LYS	3.8
39	AL	49	ARG	3.8
55	K	200	ARG	3.8
56	L	130	THR	3.8
4	j	154	ALA	3.8
39	AL	33	ALA	3.8
51	CR	25	GLY	3.8
63	T	90	ALA	3.8
70	a	134	ALA	3.8
78	AR	106	GLY	3.8
78	DT	293	ALA	3.8
80	P0	39	HIS	3.8
53	I	201	GLN	3.7
63	T	62	GLN	3.7

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Mol	Chain	Res	Type	RSRZ
73	d	26	GLN	3.7
46	CM	1672	G	3.7
1	1	2078	A	3.7
46	B	1411	A	3.7
46	CM	1618	A	3.7
77	DS	150	VAL	3.7
54	J	34	LEU	3.7
24	6	70	ARG	3.7
44	CK	24	ARG	3.7
47	CN	127	ARG	3.7
55	K	8	ARG	3.7
7	m	287	ALA	3.7
27	BT	22	ALA	3.7
56	L	147	THR	3.7
78	AR	251	ALA	3.7
46	B	493	U	3.7
56	L	160	HIS	3.7
78	AR	16	HIS	3.7
6	AY	353	SER	3.7
35	AH	3	GLN	3.7
78	AR	263	GLN	3.7
27	9	44	ASN	3.7
76	g	51	ASN	3.7
26	BS	108	LEU	3.7
29	BV	5	LEU	3.7
74	e	48	VAL	3.7
82	ll	167	VAL	3.7
14	t	68	LYS	3.7
47	C	167	LYS	3.7
25	BR	47	ARG	3.7
70	DL	20	ARG	3.7
1	AS	1219	A	3.7
46	B	1046	A	3.7
46	CM	1085	G	3.7
44	CK	12	GLY	3.7
7	AZ	68	HIS	3.7
10	BC	122	THR	3.7
72	c	17	HIS	3.7
1	AS	1263	U	3.7
1	AS	2284	C	3.7
19	BL	129	LEU	3.7
36	CC	78	LYS	3.7

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Mol	Chain	Res	Type	RSRZ
53	I	191	LYS	3.7
53	I	196	LYS	3.7
63	DE	116	LYS	3.7
66	W	48	ASN	3.7
72	DN	25	ASN	3.7
41	CH	29	PRO	3.7
77	DS	164	PRO	3.7
50	F	189	ILE	3.7
78	DT	257	ILE	3.7
70	DL	98	GLU	3.7
45	CL	80	ALA	3.7
1	1	1576	A	3.7
1	1	2480	A	3.7
66	W	69	THR	3.7
76	DR	35	TYR	3.7
82	ll	217	TYR	3.7
1	1	2447	G	3.7
1	AS	1264	G	3.7
46	B	717	G	3.7
57	M	41	PHE	3.7
5	AX	66	LYS	3.7
6	AY	218	LYS	3.7
28	BU	22	LYS	3.7
41	AN	36	LYS	3.7
51	G	134	LYS	3.7
55	CV	144	LYS	3.7
62	DD	139	LYS	3.7
79	CZ	28	LEU	3.7
7	AZ	54	ARG	3.7
28	BU	98	SER	3.7
45	CL	99	SER	3.7
53	CT	82	SER	3.7
28	BU	37	PRO	3.7
39	AL	57	ASN	3.7
46	B	1114	U	3.7
65	V	2	PRO	3.7
7	AZ	109	ALA	3.7
14	BG	84	GLY	3.7
28	BU	47	GLU	3.7
7	AZ	89	LYS	3.7
32	AE	33	LYS	3.7
45	i	115	LEU	3.7

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Mol	Chain	Res	Type	RSRZ
66	W	76	LYS	3.7
70	a	68	LYS	3.7
54	J	87	VAL	3.7
1	AS	1369	A	3.7
46	CM	215	A	3.7
53	CT	219	ARG	3.7
56	L	6	ARG	3.7
72	DN	22	ARG	3.7
62	S	39	GLN	3.7
30	BW	24	PRO	3.7
52	CS	79	SER	3.7
52	CS	96	SER	3.7
53	CT	70	PRO	3.7
70	DL	118	ILE	3.7
78	AR	248	TRP	3.7
12	BE	2	ALA	3.6
46	CM	243	U	3.6
46	CM	246	U	3.6
78	DT	181	ALA	3.6
82	L1	112	ALA	3.6
7	m	292	GLU	3.6
32	AE	67	GLU	3.6
52	H	181	GLU	3.6
13	BF	125	MET	3.6
63	DE	14	LYS	3.6
73	DO	47	PHE	3.6
11	BD	3	TYR	3.6
14	t	10	LEU	3.6
49	E	68	LEU	3.6
54	J	139	LEU	3.6
74	e	33	LEU	3.6
80	P0	38	MET	3.6
25	BR	5	VAL	3.6
26	BS	109	TYR	3.6
29	BV	6	THR	3.6
32	BY	18	ARG	3.6
49	E	58	VAL	3.6
52	CS	53	VAL	3.6
52	CS	168	VAL	3.6
54	J	177	VAL	3.6
67	DI	39	VAL	3.6
7	m	275	GLN	3.6

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Mol	Chain	Res	Type	RSRZ
54	J	176	GLN	3.6
1	1	2466	A	3.6
59	DA	61	SER	3.6
52	H	169	ASN	3.6
15	BH	131	ALA	3.6
79	CZ	48	ALA	3.6
80	p0	4	ALA	3.6
1	AS	1561	U	3.6
69	Z	34	LEU	3.6
2	AT	87	G	3.6
20	z	71	ARG	3.6
36	CC	105	ARG	3.6
46	CM	115	G	3.6
6	l	59	HIS	3.6
50	CQ	218	VAL	3.6
78	AR	105	VAL	3.6
82	L1	201	VAL	3.6
54	J	66	TYR	3.6
65	V	55	TYR	3.6
1	1	2337	C	3.6
3	4	21	C	3.6
66	W	93	GLN	3.6
45	i	39	SER	3.6
7	m	58	LYS	3.6
51	CR	6	LYS	3.6
51	CR	246	LYS	3.6
52	CS	110	ALA	3.6
23	BP	52	ASN	3.6
56	L	176	ASN	3.6
76	g	55	LYS	3.6
80	p0	8	LYS	3.6
1	1	2437	A	3.6
20	z	132	PHE	3.6
46	B	1136	A	3.6
54	CU	179	PHE	3.6
82	L1	68	PHE	3.6
7	AZ	135	VAL	3.6
31	BX	44	VAL	3.6
20	BM	131	THR	3.6
49	E	202	THR	3.6
78	DT	55	TYR	3.6
79	CZ	86	ILE	3.6

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Mol	Chain	Res	Type	RSRZ
1	1	2441	G	3.6
1	AS	1436	G	3.6
4	AW	250	GLN	3.6
46	B	1779	G	3.6
46	CM	1086	G	3.6
49	E	84	GLN	3.6
51	G	130	GLN	3.6
80	p0	36	GLN	3.6
82	L1	182	GLN	3.6
9	BB	92	LYS	3.6
56	CW	68	LYS	3.6
21	BN	167	ALA	3.6
70	DL	134	ALA	3.6
72	c	63	ALA	3.6
50	F	166	ARG	3.6
52	CS	81	ARG	3.6
52	CS	153	GLY	3.6
54	J	133	GLY	3.6
66	W	88	ARG	3.6
70	a	66	GLY	3.6
79	CZ	96	LEU	3.6
16	BI	175	ASN	3.6
20	z	141	HIS	3.6
56	L	155	HIS	3.6
58	N	100	TYR	3.6
65	V	18	TYR	3.6
11	BD	48	ILE	3.6
50	F	185	ILE	3.6
70	a	70	THR	3.6
82	ll	111	ILE	3.6
7	m	4	GLN	3.6
10	BC	71	LYS	3.6
17	BJ	123	GLN	3.6
32	AE	36	LYS	3.6
51	G	133	LYS	3.6
63	T	120	GLN	3.6
20	z	66	LEU	3.6
63	DE	68	GLY	3.6
77	h	188	LEU	3.6
7	AZ	293	PHE	3.6
67	X	1	MET	3.6
50	F	7	SER	3.6

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Mol	Chain	Res	Type	RSRZ
63	DE	66	VAL	3.6
66	W	61	VAL	3.6
16	BI	181	ASN	3.6
53	CT	225	GLU	3.6
55	K	70	GLU	3.6
56	L	33	GLU	3.6
57	M	28	ASN	3.6
80	p0	56	ASN	3.6
7	AZ	172	TYR	3.6
49	E	85	THR	3.6
29	BV	10	LYS	3.6
41	CH	47	PRO	3.6
65	DG	27	LYS	3.6
72	c	12	LYS	3.6
76	g	29	LYS	3.6
80	P0	81	LYS	3.6
1	AS	3166	A	3.5
7	m	274	GLN	3.5
63	DE	104	ALA	3.5
4	j	71	LEU	3.5
10	p	68	LEU	3.5
48	CO	161	LEU	3.5
56	CW	63	ASP	3.5
1	1	1817	U	3.5
6	AY	264	GLY	3.5
62	DD	71	GLY	3.5
15	BH	129	VAL	3.5
59	P	6	SER	3.5
82	ll	213	SER	3.5
51	CR	93	GLU	3.5
64	U	87	ASN	3.5
80	p0	63	ILE	3.5
5	AX	302	LYS	3.5
8	BA	139	LYS	3.5
16	BI	119	TYR	3.5
22	BO	116	LYS	3.5
52	CS	115	LYS	3.5
65	V	66	TYR	3.5
66	W	66	THR	3.5
19	y	180	ARG	3.5
6	AY	195	LEU	3.5
7	m	17	GLN	3.5

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Mol	Chain	Res	Type	RSRZ
18	BK	185	ALA	3.5
54	CU	54	LEU	3.5
79	CZ	136	LEU	3.5
45	i	69	PHE	3.5
57	CX	41	PHE	3.5
73	d	79	PHE	3.5
11	BD	19	ASP	3.5
46	B	1065	U	3.5
53	CT	83	CYS	3.5
4	AW	49	ILE	3.5
57	CX	79	GLU	3.5
78	DT	157	ILE	3.5
18	x	169	ASN	3.5
58	CY	36	LYS	3.5
30	AC	18	ARG	3.5
30	BW	18	ARG	3.5
35	CB	16	ARG	3.5
38	CE	25	ARG	3.5
38	CE	87	THR	3.5
55	K	25	ARG	3.5
66	W	84	ARG	3.5
69	DK	16	ARG	3.5
76	DR	34	ALA	3.5
79	O	74	LEU	3.5
46	CM	248	C	3.5
55	CV	53	GLN	3.5
10	p	237	GLY	3.5
69	Z	4	GLY	3.5
7	AZ	125	VAL	3.5
78	DT	277	VAL	3.5
1	AS	2458	G	3.5
46	B	512	G	3.5
46	CM	1038	G	3.5
63	T	103	ASP	3.5
20	BM	143	ILE	3.5
71	DM	39	ILE	3.5
78	AR	116	ILE	3.5
78	DT	258	LYS	3.5
46	CM	216	A	3.5
6	l	19	SER	3.5
46	B	727	U	3.5
10	BC	186	ARG	3.5

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Mol	Chain	Res	Type	RSRZ
38	CE	45	ARG	3.5
56	CW	54	ARG	3.5
72	DN	15	ARG	3.5
73	d	81	ARG	3.5
78	DT	229	TYR	3.5
7	m	9	THR	3.5
53	CT	62	PRO	3.5
40	CG	49	LEU	3.5
79	CZ	103	LEU	3.5
6	AY	215	GLY	3.5
7	AZ	170	GLY	3.5
22	2	19	PHE	3.5
24	BQ	8	GLY	3.5
36	CC	57	VAL	3.5
45	CL	69	PHE	3.5
53	CT	80	GLY	3.5
78	AR	11	GLY	3.5
82	l1	36	VAL	3.5
82	l1	138	VAL	3.5
1	1	2470	C	3.5
1	AS	1279	C	3.5
7	m	34	LYS	3.5
9	BB	12	LYS	3.5
62	DD	13	LYS	3.5
19	BL	3	ARG	3.5
1	AS	1278	G	3.5
1	AS	1370	G	3.5
55	K	168	SER	3.5
56	L	21	SER	3.5
45	CL	129	LEU	3.5
53	I	56	ASN	3.5
54	CU	128	PRO	3.5
78	AR	42	LEU	3.5
79	CZ	41	LEU	3.5
82	L1	179	LEU	3.5
3	AU	113	U	3.5
78	DT	41	THR	3.5
53	CT	68	MET	3.5
51	CR	261	GLY	3.5
73	DO	32	PHE	3.5
76	DR	4	VAL	3.5
77	h	173	PHE	3.5

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Mol	Chain	Res	Type	RSRZ
79	O	44	GLY	3.5
7	m	151	GLN	3.5
48	CO	208	GLN	3.5
32	AE	37	LYS	3.5
56	L	83	ILE	3.5
18	x	135	ARG	3.5
50	F	174	ARG	3.5
1	1	2114	C	3.4
1	AS	3051	C	3.4
8	n	58	GLU	3.4
10	p	27	LEU	3.4
26	BS	34	LEU	3.4
59	P	5	HIS	3.4
61	R	80	LEU	3.4
77	h	137	HIS	3.4
78	DT	262	LEU	3.4
79	CZ	68	GLU	3.4
10	BC	98	TYR	3.4
38	CE	36	SER	3.4
56	L	2	PRO	3.4
78	DT	243	SER	3.4
38	CE	17	THR	3.4
41	CH	32	THR	3.4
70	a	9	THR	3.4
62	S	96	VAL	3.4
74	DP	15	VAL	3.4
16	BI	58	GLY	3.4
43	AP	39	GLY	3.4
1	AS	601	U	3.4
3	AU	18	U	3.4
41	AN	49	LYS	3.4
42	AO	8	LYS	3.4
45	i	37	LYS	3.4
4	AW	8	GLN	3.4
36	CC	107	GLN	3.4
46	B	258	U	3.4
49	CP	139	TRP	3.4
53	CT	143	LYS	3.4
55	K	75	LYS	3.4
61	DC	108	LYS	3.4
65	DG	84	LYS	3.4
80	p0	7	LYS	3.4

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Mol	Chain	Res	Type	RSRZ
46	B	1352	G	3.4
57	M	29	GLN	3.4
12	r	165	ILE	3.4
45	i	113	ARG	3.4
51	G	49	ARG	3.4
57	M	38	ARG	3.4
35	CB	57	LEU	3.4
52	CS	60	ASP	3.4
57	M	46	LEU	3.4
77	h	190	LEU	3.4
78	AR	262	LEU	3.4
10	p	162	GLU	3.4
37	CD	65	GLU	3.4
55	CV	159	GLU	3.4
65	DG	51	GLU	3.4
28	BU	18	TYR	3.4
54	J	82	PRO	3.4
22	BO	159	PHE	3.4
53	CT	102	VAL	3.4
58	CY	60	PHE	3.4
65	V	5	SER	3.4
1	1	2476	C	3.4
11	BD	44	THR	3.4
32	BY	12	THR	3.4
38	CE	29	VAL	3.4
46	B	1627	C	3.4
48	D	143	THR	3.4
50	F	165	THR	3.4
77	h	156	VAL	3.4
36	AI	119	LYS	3.4
37	CD	24	LYS	3.4
41	CH	22	LYS	3.4
43	CJ	49	GLY	3.4
51	CR	204	GLY	3.4
52	H	66	ASN	3.4
72	DN	19	LYS	3.4
78	AR	135	TRP	3.4
14	BG	41	ARG	3.4
25	7	43	ARG	3.4
54	J	131	ILE	3.4
81	12	155	ILE	3.4
46	B	1400	U	3.4

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Mol	Chain	Res	Type	RSRZ
46	CM	815	U	3.4
46	CM	367	A	3.4
5	AX	387	LEU	3.4
50	F	124	LEU	3.4
62	S	53	LEU	3.4
1	AS	1218	G	3.4
1	AS	2373	G	3.4
3	AU	15	G	3.4
5	k	274	HIS	3.4
8	BA	106	ALA	3.4
35	AH	32	ALA	3.4
36	CC	117	ALA	3.4
39	AL	29	ALA	3.4
45	i	40	ASP	3.4
61	DC	114	HIS	3.4
63	DE	79	GLU	3.4
7	m	5	LYS	3.4
9	BB	32	LYS	3.4
45	CL	55	LYS	3.4
49	E	162	VAL	3.4
51	CR	243	LYS	3.4
60	Q	9	PHE	3.4
65	V	119	LYS	3.4
74	DP	11	LYS	3.4
79	CZ	114	LYS	3.4
17	BJ	186	THR	3.4
37	CD	9	GLY	3.4
47	C	96	THR	3.4
55	CV	142	SER	3.4
61	R	120	SER	3.4
64	U	55	THR	3.4
79	O	49	SER	3.4
80	p0	34	SER	3.4
10	p	25	ASN	3.4
70	DL	133	ASN	3.4
4	AW	64	ARG	3.4
14	BG	176	ARG	3.4
16	BI	162	ARG	3.4
66	W	49	ILE	3.4
78	DT	248	TRP	3.4
80	p0	25	ILE	3.4
58	CY	16	GLN	3.4

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Mol	Chain	Res	Type	RSRZ
46	CM	1704	C	3.4
59	P	16	LEU	3.4
78	DT	33	LEU	3.4
80	p0	67	LEU	3.4
1	1	1815	U	3.4
2	AT	78	U	3.4
46	B	238	U	3.4
5	k	7	GLU	3.4
41	CH	17	LYS	3.4
43	AP	15	LYS	3.4
55	CV	41	LYS	3.4
62	DD	46	LYS	3.4
9	BB	212	PHE	3.4
13	s	126	ASP	3.4
55	K	65	PHE	3.4
71	b	59	TYR	3.4
76	g	14	VAL	3.4
27	BT	28	ARG	3.4
48	CO	37	THR	3.4
64	U	120	ARG	3.4
1	1	2444	G	3.4
28	AA	98	SER	3.4
48	CO	159	SER	3.4
49	E	194	SER	3.4
66	DH	28	THR	3.4
55	K	43	ILE	3.4
41	CH	15	CYS	3.4
57	M	13	GLN	3.4
62	DD	93	GLN	3.4
62	S	27	LEU	3.4
30	AC	33	LYS	3.4
45	CL	54	LYS	3.4
61	R	1	MET	3.4
69	DK	70	LYS	3.4
28	BU	95	ALA	3.4
45	i	51	ALA	3.4
45	i	87	PRO	3.4
54	J	128	PRO	3.4
78	DT	211	ALA	3.4
57	M	18	GLU	3.4
72	c	86	VAL	3.4
73	d	31	PHE	3.4

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Mol	Chain	Res	Type	RSRZ
80	p0	50	VAL	3.4
46	CM	1696	U	3.4
6	AY	260	ASP	3.4
7	AZ	137	ASP	3.4
7	AZ	161	GLY	3.4
54	J	72	ARG	3.4
55	K	6	ASP	3.4
70	DL	67	GLY	3.4
77	DS	169	GLY	3.4
82	L1	69	GLY	3.4
49	E	110	ILE	3.4
53	I	49	ILE	3.4
76	g	41	THR	3.4
42	CI	24	SER	3.4
9	BB	10	LEU	3.3
28	BU	78	ASN	3.3
40	CG	11	GLN	3.3
47	CN	184	LEU	3.3
53	I	190	LEU	3.3
56	L	110	GLN	3.3
77	DS	159	LEU	3.3
1	1	2455	G	3.3
1	AS	863	G	3.3
4	j	70	LYS	3.3
14	BG	129	LYS	3.3
78	AR	40	LYS	3.3
10	p	179	ALA	3.3
48	CO	100	PHE	3.3
53	I	108	VAL	3.3
72	c	6	ALA	3.3
6	AY	33	PRO	3.3
10	p	26	PRO	3.3
41	CH	28	PRO	3.3
60	DB	9	PHE	3.3
78	AR	58	PRO	3.3
8	BA	108	GLU	3.3
35	CB	41	ARG	3.3
64	U	115	ARG	3.3
72	c	15	ARG	3.3
16	BI	30	TYR	3.3
20	BM	129	GLY	3.3
22	BO	10	GLY	3.3

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Mol	Chain	Res	Type	RSRZ
45	i	108	GLY	3.3
47	CN	44	GLY	3.3
52	CS	61	TYR	3.3
61	R	115	TYR	3.3
62	DD	32	GLY	3.3
80	P0	11	TYR	3.3
1	AS	800	C	3.3
1	AS	1224	C	3.3
3	AU	45	C	3.3
46	B	374	C	3.3
65	V	116	ILE	3.3
1	1	2482	U	3.3
1	AS	3320	U	3.3
46	B	1728	U	3.3
73	d	24	LEU	3.3
77	h	159	LEU	3.3
56	L	152	SER	3.3
1	AS	1283	A	3.3
10	BC	182	LYS	3.3
10	BC	246	LYS	3.3
26	BS	49	LYS	3.3
38	AK	10	LYS	3.3
38	AK	84	LYS	3.3
46	CM	1701	A	3.3
79	O	63	CYS	3.3
10	BC	123	ALA	3.3
27	9	79	ALA	3.3
35	CB	31	VAL	3.3
38	CE	42	ALA	3.3
49	E	160	VAL	3.3
53	I	153	VAL	3.3
54	J	90	ALA	3.3
18	BK	59	PRO	3.3
19	BL	172	PHE	3.3
56	L	141	VAL	3.3
59	DA	33	VAL	3.3
63	DE	115	PHE	3.3
72	c	30	VAL	3.3
22	BO	5	ARG	3.3
35	CB	9	ARG	3.3
50	F	117	ARG	3.3
50	F	144	ARG	3.3

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Mol	Chain	Res	Type	RSRZ
53	I	223	ARG	3.3
71	b	55	PRO	3.3
80	P0	88	PHE	3.3
35	CB	34	HIS	3.3
56	CW	160	HIS	3.3
20	z	140	GLU	3.3
1	AS	2428	G	3.3
22	BO	84	TYR	3.3
36	CC	70	TYR	3.3
41	CH	19	ILE	3.3
43	AP	43	TYR	3.3
49	CP	78	ILE	3.3
51	G	186	GLY	3.3
59	P	8	GLY	3.3
80	P0	99	ILE	3.3
5	k	387	LEU	3.3
16	BI	197	LEU	3.3
69	Z	33	LEU	3.3
10	BC	147	LYS	3.3
20	z	128	LYS	3.3
1	1	1012	U	3.3
46	B	319	C	3.3
46	CM	131	C	3.3
56	L	68	LYS	3.3
66	W	60	LYS	3.3
34	AG	62	SER	3.3
50	CQ	151	GLN	3.3
70	a	69	SER	3.3
30	BW	19	ASN	3.3
78	AR	17	ASN	3.3
19	BL	180	ARG	3.3
38	CE	57	ARG	3.3
43	AP	42	ARG	3.3
1	AS	1248	A	3.3
8	n	163	PHE	3.3
56	L	146	PHE	3.3
80	P0	86	PHE	3.3
47	CN	187	ILE	3.3
51	G	154	ILE	3.3
63	T	41	ILE	3.3
64	DF	124	GLY	3.3
78	DT	190	ILE	3.3

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Mol	Chain	Res	Type	RSRZ
55	K	28	GLU	3.3
23	5	111	TYR	3.3
7	AZ	150	LEU	3.3
39	CF	14	LEU	3.3
78	AR	82	LEU	3.3
14	BG	180	LYS	3.3
20	z	19	LYS	3.3
67	X	27	LYS	3.3
71	b	56	THR	3.3
72	DN	32	LYS	3.3
1	1	2374	G	3.3
45	CL	56	SER	3.3
46	B	1099	G	3.3
55	CV	59	ARG	3.3
77	DS	174	MET	3.3
13	BF	8	VAL	3.3
27	9	45	VAL	3.3
56	CW	172	VAL	3.3
62	S	68	VAL	3.3
82	L1	169	VAL	3.3
82	l1	148	VAL	3.3
1	1	732	U	3.3
1	1	1544	C	3.3
1	AS	1013	U	3.3
1	AS	1275	C	3.3
1	AS	1849	U	3.3
21	BN	163	PHE	3.3
46	B	308	C	3.3
46	B	1338	U	3.3
54	CU	39	PHE	3.3
58	N	115	PHE	3.3
81	12	110	PHE	3.3
41	AN	47	PRO	3.3
61	R	109	PRO	3.3
71	DM	91	PRO	3.3
80	P0	108	PRO	3.3
5	k	253	GLY	3.3
48	CO	150	ILE	3.3
50	F	219	ILE	3.3
60	DB	108	GLY	3.3
4	j	180	LEU	3.3
13	BF	123	TYR	3.3

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Mol	Chain	Res	Type	RSRZ
43	CJ	35	LEU	3.3
43	CJ	83	LEU	3.3
46	B	1407	A	3.3
46	CM	112	A	3.3
46	CM	1219	A	3.3
78	DT	32	LEU	3.3
35	CB	19	LYS	3.3
41	AN	50	LYS	3.3
48	CO	152	LYS	3.3
78	AR	258	LYS	3.3
26	BS	37	THR	3.3
78	AR	137	THR	3.3
4	j	176	ASP	3.3
51	G	171	ASP	3.3
56	CW	120	ARG	3.3
62	DD	131	ARG	3.3
16	v	57	GLN	3.3
19	BL	128	ALA	3.3
21	BN	138	GLN	3.3
29	AB	149	ALA	3.3
33	AF	53	GLN	3.3
54	CU	86	VAL	3.3
55	CV	102	VAL	3.3
39	CF	38	PHE	3.3
57	M	27	PHE	3.3
69	Z	25	ALA	3.3
76	g	34	ALA	3.3
79	O	51	ALA	3.3
65	DG	5	SER	3.3
82	ll	157	PHE	3.3
39	CF	75	ILE	3.3
20	z	16	GLY	3.3
28	AA	20	GLY	3.3
33	AF	42	CYS	3.3
1	1	2443	G	3.3
1	AS	1488	G	3.3
1	AS	2944	G	3.3
7	m	244	HIS	3.3
29	BV	11	HIS	3.3
78	AR	238	HIS	3.3
1	1	1610	C	3.2
1	AS	2745	C	3.2

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Mol	Chain	Res	Type	RSRZ
36	AI	64	GLU	3.2
76	g	35	TYR	3.2
1	1	2462	A	3.2
63	T	8	THR	3.2
66	DH	66	THR	3.2
69	Z	23	ARG	3.2
78	DT	165	THR	3.2
18	BK	51	VAL	3.2
26	BS	26	VAL	3.2
82	L1	172	VAL	3.2
17	BJ	27	GLN	3.2
44	AQ	32	GLN	3.2
45	CL	109	GLN	3.2
55	CV	133	ALA	3.2
63	T	74	GLN	3.2
70	a	54	ALA	3.2
78	DT	70	GLN	3.2
10	BC	196	SER	3.2
14	BG	50	PRO	3.2
14	BG	87	PRO	3.2
42	AO	24	SER	3.2
58	N	95	PRO	3.2
10	p	153	LEU	3.2
11	q	169	ASN	3.2
25	BR	89	LEU	3.2
47	CN	16	LEU	3.2
77	DS	142	LEU	3.2
78	DT	42	LEU	3.2
82	L1	170	GLY	3.2
82	l1	123	LEU	3.2
55	CV	129	HIS	3.2
61	R	114	HIS	3.2
1	1	2471	U	3.2
7	m	25	GLU	3.2
56	L	41	GLU	3.2
10	BC	99	ARG	3.2
41	AN	26	ARG	3.2
53	I	219	ARG	3.2
1	AS	1392	C	3.2
3	AU	91	C	3.2
1	1	249	G	3.2
1	1	3033	G	3.2

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Mol	Chain	Res	Type	RSRZ
36	CC	46	THR	3.2
46	B	307	C	3.2
76	g	36	MET	3.2
52	H	23	VAL	3.2
79	CZ	31	VAL	3.2
82	L1	162	VAL	3.2
10	BC	114	ALA	3.2
45	CL	125	ALA	3.2
45	CL	133	ALA	3.2
1	AS	813	A	3.2
78	AR	122	GLN	3.2
10	BC	27	LEU	3.2
16	v	184	LYS	3.2
33	AF	123	PRO	3.2
45	i	43	PRO	3.2
49	E	94	LYS	3.2
65	DG	46	PRO	3.2
77	DS	172	ILE	3.2
5	k	12	GLY	3.2
28	BU	105	SER	3.2
31	BX	103	LEU	3.2
52	H	20	LEU	3.2
78	AR	266	SER	3.2
78	AR	267	LEU	3.2
78	DT	34	LEU	3.2
82	l1	69	GLY	3.2
34	CA	84	ASN	3.2
60	DB	19	ASN	3.2
62	DD	20	HIS	3.2
6	l	109	ARG	3.2
17	w	101	GLU	3.2
56	L	43	TYR	3.2
1	1	2477	U	3.2
1	AS	2475	U	3.2
7	AZ	95	TRP	3.2
37	CD	46	VAL	3.2
46	B	778	U	3.2
46	B	944	U	3.2
46	CM	944	U	3.2
55	CV	82	VAL	3.2
78	AR	8	VAL	3.2
8	n	176	PHE	3.2

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Mol	Chain	Res	Type	RSRZ
18	BK	85	ALA	3.2
18	BK	184	ALA	3.2
26	8	112	THR	3.2
27	9	33	ALA	3.2
14	t	5	LYS	3.2
36	CC	74	LYS	3.2
63	T	38	ILE	3.2
78	DT	31	ASP	3.2
1	AS	1437	G	3.2
5	AX	253	GLY	3.2
28	AA	125	GLY	3.2
46	B	683	G	3.2
46	B	1293	G	3.2
11	q	69	ARG	3.2
12	r	128	ARG	3.2
46	B	578	A	3.2
13	BF	109	HIS	3.2
24	BQ	132	ASN	3.2
45	CL	70	ASN	3.2
55	CV	22	ARG	3.2
7	AZ	136	GLU	3.2
16	v	62	TYR	3.2
29	AB	52	TYR	3.2
45	CL	132	GLU	3.2
22	2	101	CYS	3.2
53	I	195	VAL	3.2
79	O	61	VAL	3.2
69	Z	24	TRP	3.2
51	CR	109	PHE	3.2
55	CV	134	ALA	3.2
70	DL	54	ALA	3.2
73	DO	31	PHE	3.2
82	ll	214	PHE	3.2
6	l	349	LYS	3.2
11	BD	6	THR	3.2
27	9	37	LYS	3.2
38	CE	10	LYS	3.2
77	h	139	LYS	3.2
1	1	1551	U	3.2
1	1	2465	U	3.2
1	AS	1434	U	3.2
1	AS	2486	U	3.2

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Mol	Chain	Res	Type	RSRZ
10	p	167	LEU	3.2
47	C	98	ILE	3.2
65	DG	2	PRO	3.2
54	CU	49	GLY	3.2
77	h	169	GLY	3.2
78	DT	278	GLY	3.2
27	BT	16	ARG	3.2
66	W	67	ARG	3.2
80	P0	16	ARG	3.2
1	AS	2956	C	3.2
21	BN	60	SER	3.2
46	B	1113	C	3.2
52	CS	57	SER	3.2
63	DE	125	SER	3.2
78	AR	210	SER	3.2
6	l	56	ASN	3.2
79	CZ	125	ASN	3.2
1	1	1021	A	3.2
1	AS	862	A	3.2
1	AS	879	A	3.2
7	m	37	VAL	3.2
20	BM	31	GLU	3.2
24	6	68	GLU	3.2
51	G	149	TYR	3.2
1	AS	1222	G	3.2
1	AS	1917	A	3.2
80	P0	84	VAL	3.2
82	ll	169	VAL	3.2
1	AS	2390	G	3.2
1	AS	2611	G	3.2
44	CK	27	LYS	3.2
47	CN	175	TRP	3.2
56	L	169	ALA	3.2
59	DA	63	ALA	3.2
72	c	13	LYS	3.2
74	DP	55	CYS	3.2
79	CZ	94	ALA	3.2
31	BX	102	ILE	3.2
50	CQ	219	ILE	3.2
52	H	64	ILE	3.2
52	CS	125	THR	3.2
61	R	116	LEU	3.2

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Mol	Chain	Res	Type	RSRZ
81	12	152	ILE	3.2
82	11	144	LEU	3.2
47	C	152	PRO	3.1
7	m	156	GLY	3.1
10	BC	236	GLY	3.1
18	BK	55	GLN	3.1
27	BT	121	ARG	3.1
31	AD	73	GLN	3.1
56	L	112	GLN	3.1
68	DJ	3	ARG	3.1
46	B	259	U	3.1
46	B	1613	U	3.1
46	CM	311	U	3.1
52	H	161	ASP	3.1
79	CZ	39	ASP	3.1
78	DT	153	SER	3.1
79	O	53	SER	3.1
7	m	288	LYS	3.1
9	o	14	GLU	3.1
10	p	262	ASN	3.1
77	h	155	ASN	3.1
77	DS	126	VAL	3.1
12	r	56	GLU	3.1
16	BI	8	GLU	3.1
36	CC	83	LYS	3.1
56	L	92	LYS	3.1
62	S	22	LYS	3.1
64	DF	132	LYS	3.1
73	d	72	LYS	3.1
1	1	2448	C	3.1
10	BC	118	ALA	3.1
35	CB	38	ALA	3.1
45	CL	156	ALA	3.1
7	m	92	LEU	3.1
11	BD	10	LEU	3.1
14	BG	3	ILE	3.1
25	7	63	ILE	3.1
41	AN	27	LEU	3.1
54	J	145	ILE	3.1
74	DP	66	LEU	3.1
78	AR	249	LEU	3.1
80	P0	63	ILE	3.1

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Mol	Chain	Res	Type	RSRZ
82	L1	128	LEU	3.1
72	DN	29	CYS	3.1
39	AL	3	ARG	3.1
82	L1	137	PRO	3.1
1	AS	420	G	3.1
1	AS	2184	G	3.1
1	AS	2363	G	3.1
7	AZ	275	GLN	3.1
33	BZ	125	GLY	3.1
40	CG	50	GLY	3.1
46	B	1115	G	3.1
46	B	1349	G	3.1
46	CM	244	G	3.1
64	DF	74	GLN	3.1
1	1	449	U	3.1
18	BK	133	HIS	3.1
32	BY	83	ASP	3.1
62	S	63	ASP	3.1
6	AY	184	LYS	3.1
14	t	122	LYS	3.1
37	CD	69	LYS	3.1
41	AN	38	LYS	3.1
45	CL	50	LYS	3.1
50	F	182	VAL	3.1
51	G	45	VAL	3.1
62	S	106	LYS	3.1
55	CV	176	SER	3.1
6	AY	200	PHE	3.1
7	AZ	145	PHE	3.1
7	AZ	237	GLU	3.1
36	CC	71	ALA	3.1
37	CD	7	ALA	3.1
43	CJ	73	GLU	3.1
48	D	205	PHE	3.1
50	F	104	GLU	3.1
51	G	82	TYR	3.1
55	CV	146	GLU	3.1
61	R	102	PHE	3.1
45	i	68	ASN	3.1
77	DS	175	ALA	3.1
6	AY	290	LEU	3.1
41	CH	6	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
54	J	150	LEU	3.1
60	DB	132	LEU	3.1
78	AR	199	ILE	3.1
78	DT	19	TRP	3.1
79	O	45	LEU	3.1
63	DE	117	ILE	3.1
56	CW	57	ARG	3.1
52	CS	94	THR	3.1
4	AW	210	PRO	3.1
45	CL	43	PRO	3.1
70	a	16	PRO	3.1
72	DN	2	PRO	3.1
33	AF	38	GLY	3.1
76	DR	52	GLY	3.1
22	BO	16	GLN	3.1
1	AS	1099	A	3.1
46	B	22	A	3.1
46	B	968	A	3.1
46	CM	1479	A	3.1
7	AZ	270	LYS	3.1
24	6	63	LYS	3.1
38	AK	43	LYS	3.1
41	CH	36	LYS	3.1
45	i	53	LYS	3.1
23	BP	64	VAL	3.1
31	BX	69	VAL	3.1
45	i	119	VAL	3.1
1	1	2547	G	3.1
1	AS	1479	G	3.1
1	AS	2342	G	3.1
1	AS	2381	G	3.1
1	AS	2445	G	3.1
7	m	55	PHE	3.1
46	B	1017	G	3.1
46	CM	1228	G	3.1
64	U	23	ASP	3.1
64	U	51	ASP	3.1
53	I	144	PHE	3.1
27	9	31	LEU	3.1
50	F	203	LEU	3.1
62	DD	78	TYR	3.1
68	Y	52	TYR	3.1

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Mol	Chain	Res	Type	RSRZ
55	CV	193	GLU	3.1
82	ll	117	ILE	3.1
41	AN	35	ARG	3.1
41	CH	46	ARG	3.1
49	E	91	THR	3.1
49	CP	85	THR	3.1
51	CR	146	THR	3.1
53	I	86	PRO	3.1
61	R	7	PRO	3.1
78	DT	25	THR	3.1
78	DT	203	PRO	3.1
6	l	69	GLY	3.1
41	CH	40	GLY	3.1
47	C	51	GLY	3.1
4	j	177	LYS	3.1
7	AZ	294	LYS	3.1
19	BL	8	LYS	3.1
44	CK	6	LYS	3.1
50	F	190	MET	3.1
54	CU	40	LYS	3.1
76	DR	53	LYS	3.1
1	1	2456	C	3.1
7	AZ	162	VAL	3.1
62	DD	38	VAL	3.1
35	AH	34	HIS	3.1
1	1	1563	A	3.1
7	m	147	ASP	3.1
10	BC	199	ALA	3.1
16	v	185	ALA	3.1
25	7	109	LEU	3.1
35	AH	57	LEU	3.1
46	B	1357	A	3.1
46	CM	245	A	3.1
49	E	219	PHE	3.1
54	J	125	LEU	3.1
63	T	73	LEU	3.1
65	DG	21	PHE	3.1
36	CC	82	ALA	3.1
68	DJ	8	ALA	3.1
80	P0	106	ALA	3.1
82	L1	16	LEU	3.1
82	L1	165	LEU	3.1

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Mol	Chain	Res	Type	RSRZ
52	CS	92	ARG	3.1
65	V	86	ARG	3.1
77	DS	148	TYR	3.1
11	q	182	SER	3.1
11	BD	125	GLU	3.1
12	r	54	SER	3.1
28	BU	91	SER	3.1
31	BX	104	SER	3.1
38	AK	46	SER	3.1
62	S	103	GLU	3.1
63	DE	101	GLU	3.1
1	1	2832	U	3.1
1	AS	1758	U	3.1
5	k	337	THR	3.1
6	AY	22	PRO	3.1
34	AG	11	GLY	3.1
56	L	84	GLY	3.1
78	AR	278	GLY	3.1
30	AC	56	LYS	3.1
78	AR	59	LYS	3.1
80	p0	43	LYS	3.1
33	BZ	42	CYS	3.1
14	BG	97	VAL	3.1
35	AH	23	VAL	3.1
52	CS	155	VAL	3.1
66	DH	55	VAL	3.1
73	DO	2	VAL	3.1
14	BG	77	LEU	3.1
37	CD	49	LEU	3.1
69	DK	107	PHE	3.1
19	y	42	ALA	3.1
56	CW	55	ALA	3.1
78	DT	76	ALA	3.1
70	a	7	ILE	3.1
78	DT	167	ILE	3.1
78	DT	246	ARG	3.1
1	1	3035	C	3.1
1	1	3193	C	3.1
10	BC	135	TYR	3.1
46	B	763	C	3.1
6	AY	346	GLU	3.0
15	u	22	ASP	3.0

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Mol	Chain	Res	Type	RSRZ
82	L1	70	ASP	3.0
1	1	2310	A	3.0
1	AS	2785	A	3.0
1	AS	2954	A	3.0
46	B	682	A	3.0
46	CM	658	A	3.0
46	CM	847	A	3.0
50	CQ	140	SER	3.0
4	AW	236	GLY	3.0
10	BC	222	ASN	3.0
26	BS	118	GLY	3.0
27	BT	46	LYS	3.0
27	BT	65	GLY	3.0
50	CQ	184	GLY	3.0
63	T	23	LYS	3.0
63	DE	114	GLY	3.0
72	DN	14	GLY	3.0
10	BC	111	THR	3.0
10	BC	195	THR	3.0
14	t	146	THR	3.0
48	D	154	THR	3.0
71	DM	90	THR	3.0
1	1	2968	U	3.0
46	B	276	U	3.0
54	J	86	VAL	3.0
74	e	44	VAL	3.0
56	L	104	PHE	3.0
73	DO	3	LEU	3.0
80	P0	93	LEU	3.0
1	1	450	G	3.0
1	1	960	G	3.0
1	1	3194	G	3.0
63	T	67	ARG	3.0
29	BV	41	HIS	3.0
50	F	172	ALA	3.0
51	CR	209	HIS	3.0
81	12	160	ILE	3.0
7	m	31	TYR	3.0
53	CT	84	TYR	3.0
71	DM	101	TYR	3.0
6	l	55	GLU	3.0
36	CC	100	GLU	3.0

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Mol	Chain	Res	Type	RSRZ
48	CO	67	GLU	3.0
50	F	155	ASP	3.0
7	m	270	LYS	3.0
24	6	106	LYS	3.0
33	AF	35	LYS	3.0
39	CF	21	LYS	3.0
41	CH	38	LYS	3.0
44	AQ	7	LYS	3.0
52	CS	84	LYS	3.0
64	U	139	LYS	3.0
65	DG	38	LYS	3.0
69	Z	14	LYS	3.0
1	AS	241	C	3.0
15	BH	2	SER	3.0
16	v	198	SER	3.0
29	BV	142	GLY	3.0
55	CV	99	SER	3.0
79	CZ	117	GLY	3.0
81	12	148	PRO	3.0
1	1	2117	A	3.0
46	B	504	A	3.0
61	DC	54	MET	3.0
66	DH	69	THR	3.0
78	DT	12	THR	3.0
78	DT	101	THR	3.0
62	DD	6	VAL	3.0
66	W	99	VAL	3.0
78	DT	166	VAL	3.0
7	AZ	4	GLN	3.0
18	BK	3	ARG	3.0
50	F	183	LEU	3.0
54	CU	150	LEU	3.0
56	L	132	ARG	3.0
56	CW	132	ARG	3.0
59	P	121	ARG	3.0
64	DF	115	ARG	3.0
78	AR	120	LEU	3.0
80	P0	76	LEU	3.0
4	AW	62	ALA	3.0
6	l	90	ALA	3.0
20	BM	87	ALA	3.0
35	AH	38	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
46	B	492	U	3.0
46	CM	1673	U	3.0
78	DT	260	PHE	3.0
41	AN	15	CYS	3.0
56	CW	42	ILE	3.0
59	P	15	ALA	3.0
63	T	104	ALA	3.0
65	DG	62	ALA	3.0
79	CZ	42	ALA	3.0
10	BC	242	LYS	3.0
49	CP	77	LYS	3.0
56	CW	173	LYS	3.0
57	M	64	TYR	3.0
77	h	125	LYS	3.0
20	BM	68	GLU	3.0
36	AI	18	GLU	3.0
78	DT	291	TRP	3.0
1	AS	2443	G	3.0
1	AS	2579	G	3.0
7	AZ	87	GLY	3.0
7	AZ	174	PRO	3.0
49	E	172	GLY	3.0
27	9	47	SER	3.0
23	BP	19	VAL	3.0
27	BT	105	VAL	3.0
28	BU	23	VAL	3.0
32	BY	105	THR	3.0
35	CB	35	VAL	3.0
39	CF	27	VAL	3.0
45	CL	68	ASN	3.0
52	H	100	ASN	3.0
67	X	39	VAL	3.0
73	DO	4	VAL	3.0
75	f	53	ASN	3.0
80	P0	104	VAL	3.0
80	p0	32	ASN	3.0
11	q	176	LEU	3.0
15	BH	120	ARG	3.0
30	BW	32	LEU	3.0
78	AR	268	LEU	3.0
79	CZ	97	LEU	3.0
41	CH	44	GLN	3.0

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Mol	Chain	Res	Type	RSRZ
7	m	231	ILE	3.0
12	BE	25	ALA	3.0
14	BG	125	ILE	3.0
30	AC	2	ALA	3.0
78	DT	209	ALA	3.0
1	AS	918	U	3.0
1	AS	1435	U	3.0
8	BA	131	LYS	3.0
11	BD	21	LYS	3.0
17	w	68	LYS	3.0
33	BZ	73	LYS	3.0
45	i	67	LYS	3.0
55	CV	172	TYR	3.0
65	DG	18	TYR	3.0
72	c	62	TYR	3.0
37	CD	20	GLU	3.0
56	L	20	GLU	3.0
33	BZ	38	GLY	3.0
61	DC	129	GLY	3.0
19	BL	174	ARG	3.0
23	BP	47	VAL	3.0
51	G	46	VAL	3.0
55	K	69	SER	3.0
56	L	120	ARG	3.0
63	DE	122	VAL	3.0
70	a	5	VAL	3.0
62	DD	140	SER	3.0
66	DH	25	LEU	3.0
75	f	12	ARG	3.0
78	AR	6	VAL	3.0
23	BP	108	LEU	3.0
30	BW	4	SER	3.0
75	DQ	28	SER	3.0
78	DT	47	LEU	3.0
16	BI	59	PHE	3.0
45	CL	33	ASN	3.0
56	CW	104	PHE	3.0
68	Y	37	PHE	3.0
70	a	85	PHE	3.0
80	p0	26	PHE	3.0
18	BK	57	ALA	3.0
46	B	1358	G	3.0

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Mol	Chain	Res	Type	RSRZ
46	CM	831	G	3.0
53	I	192	ALA	3.0
61	DC	6	ALA	3.0
70	DL	125	ALA	3.0
78	DT	116	ILE	3.0
7	AZ	218	LYS	3.0
31	BX	30	LYS	3.0
35	CB	43	LYS	3.0
39	AL	36	LYS	3.0
47	CN	134	LYS	3.0
56	CW	92	LYS	3.0
78	DT	29	HIS	3.0
1	AS	1228	C	3.0
1	1	2882	A	3.0
1	AS	423	A	3.0
1	AS	654	A	3.0
1	AS	1255	A	3.0
1	AS	2427	A	3.0
4	AW	189	TYR	3.0
55	K	172	TYR	3.0
6	l	156	GLU	3.0
13	BF	108	GLU	3.0
45	i	117	GLY	3.0
47	CN	152	PRO	3.0
56	L	117	GLY	3.0
79	CZ	44	GLY	3.0
79	CZ	126	TRP	3.0
19	BL	150	VAL	3.0
35	AH	31	VAL	3.0
47	C	158	VAL	3.0
55	CV	200	ARG	3.0
67	DI	44	ARG	3.0
56	L	28	LEU	3.0
58	N	40	LEU	3.0
77	h	145	LEU	3.0
78	DT	82	LEU	3.0
34	CA	4	SER	3.0
36	CC	6	THR	3.0
54	CU	81	PHE	3.0
78	DT	164	SER	3.0
7	AZ	166	ALA	3.0
52	CS	26	ALA	3.0

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Mol	Chain	Res	Type	RSRZ
56	L	122	ILE	3.0
62	S	42	ILE	3.0
63	DE	124	ILE	3.0
71	b	39	ILE	3.0
78	DT	169	ALA	3.0
78	DT	279	ALA	3.0
9	BB	11	GLN	2.9
22	2	3	LYS	2.9
41	AN	44	GLN	2.9
45	CL	71	LYS	2.9
68	Y	43	LYS	2.9
71	DM	98	GLN	2.9
60	DB	24	HIS	2.9
75	DQ	23	HIS	2.9
1	1	796	G	2.9
22	2	30	TYR	2.9
41	CH	13	TYR	2.9
46	CM	387	G	2.9
46	CM	1671	G	2.9
6	AY	174	GLY	2.9
7	m	182	GLY	2.9
30	AC	14	ARG	2.9
52	CS	75	GLY	2.9
46	B	1623	C	2.9
46	CM	1651	C	2.9
47	C	12	GLU	2.9
78	AR	285	GLU	2.9
78	DT	27	PRO	2.9
1	1	1192	C	2.9
1	AS	350	C	2.9
7	AZ	171	LEU	2.9
16	BI	155	VAL	2.9
28	BU	13	VAL	2.9
39	CF	55	VAL	2.9
49	E	143	LEU	2.9
50	CQ	177	LEU	2.9
70	a	79	VAL	2.9
74	e	25	VAL	2.9
1	1	2439	A	2.9
46	B	1078	A	2.9
1	AS	1916	U	2.9
46	B	21	U	2.9

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Mol	Chain	Res	Type	RSRZ
61	R	119	PHE	2.9
5	AX	258	ALA	2.9
11	BD	2	LYS	2.9
19	y	168	LYS	2.9
23	5	14	LYS	2.9
28	AA	95	ALA	2.9
28	AA	97	THR	2.9
31	BX	26	THR	2.9
35	CB	37	LYS	2.9
36	AI	74	LYS	2.9
36	CC	12	LYS	2.9
39	CF	76	THR	2.9
45	CL	40	ASP	2.9
51	CR	245	ILE	2.9
52	CS	28	THR	2.9
54	J	144	LYS	2.9
54	CU	164	SER	2.9
56	CW	50	SER	2.9
62	DD	25	LYS	2.9
62	DD	33	SER	2.9
66	W	44	ALA	2.9
68	Y	30	SER	2.9
70	a	14	SER	2.9
13	s	39	GLN	2.9
59	P	62	GLN	2.9
73	DO	51	GLN	2.9
32	BY	16	HIS	2.9
38	CE	11	ARG	2.9
55	CV	8	ARG	2.9
27	9	74	TYR	2.9
52	H	77	TYR	2.9
53	CT	55	GLY	2.9
70	a	71	GLY	2.9
7	m	212	LEU	2.9
8	BA	6	PRO	2.9
14	BG	135	VAL	2.9
16	BI	22	LEU	2.9
54	J	140	VAL	2.9
66	W	113	VAL	2.9
70	DL	100	VAL	2.9
76	DR	47	VAL	2.9
79	CZ	62	LEU	2.9

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Mol	Chain	Res	Type	RSRZ
80	P0	15	LEU	2.9
81	12	105	PRO	2.9
81	12	163	PRO	2.9
20	z	55	GLU	2.9
20	BM	171	GLU	2.9
53	CT	122	GLU	2.9
78	DT	14	GLU	2.9
81	12	141	CYS	2.9
9	o	15	LYS	2.9
20	BM	132	PHE	2.9
45	i	112	LYS	2.9
55	CV	197	PHE	2.9
50	CQ	116	ILE	2.9
61	R	121	ILE	2.9
79	CZ	89	ILE	2.9
1	AS	943	G	2.9
1	AS	980	G	2.9
1	AS	1276	C	2.9
10	p	123	ALA	2.9
10	BC	115	ALA	2.9
45	i	49	ALA	2.9
46	B	706	C	2.9
46	CM	1149	G	2.9
1	1	2382	A	2.9
1	AS	355	A	2.9
15	BH	4	THR	2.9
50	F	132	ALA	2.9
55	K	13	ALA	2.9
59	DA	31	ASP	2.9
76	DR	48	THR	2.9
78	DT	230	THR	2.9
1	AS	2260	U	2.9
4	AW	231	SER	2.9
46	B	1270	U	2.9
53	I	6	SER	2.9
54	J	185	SER	2.9
53	I	104	GLN	2.9
65	DG	23	GLN	2.9
69	DK	21	ASN	2.9
77	DS	176	ASN	2.9
5	AX	369	ARG	2.9
7	m	21	ARG	2.9

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Mol	Chain	Res	Type	RSRZ
26	BS	27	ARG	2.9
28	BU	15	ARG	2.9
36	CC	114	ARG	2.9
70	a	41	ARG	2.9
74	e	49	ARG	2.9
77	h	122	ARG	2.9
6	l	140	GLY	2.9
30	AC	47	LEU	2.9
43	AP	35	LEU	2.9
51	G	194	VAL	2.9
57	M	63	TYR	2.9
60	DB	23	VAL	2.9
73	DO	35	VAL	2.9
76	DR	8	LEU	2.9
6	AY	5	PRO	2.9
23	BP	81	TYR	2.9
41	AN	29	PRO	2.9
77	DS	147	TYR	2.9
5	AX	210	GLU	2.9
12	BE	101	LYS	2.9
28	BU	34	LYS	2.9
33	BZ	12	LYS	2.9
33	BZ	119	LYS	2.9
45	CL	38	LYS	2.9
56	L	72	GLU	2.9
66	W	114	GLU	2.9
73	d	75	GLU	2.9
47	C	89	PHE	2.9
77	h	123	LYS	2.9
56	CW	156	ILE	2.9
82	L1	28	PHE	2.9
7	m	241	ALA	2.9
7	m	284	ALA	2.9
30	BW	57	ALA	2.9
47	CN	65	ALA	2.9
7	AZ	155	THR	2.9
28	BU	30	ASP	2.9
6	AY	189	ARG	2.9
11	q	168	ARG	2.9
16	BI	111	SER	2.9
27	BT	6	GLN	2.9
35	CB	40	SER	2.9

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Mol	Chain	Res	Type	RSRZ
48	CO	157	GLN	2.9
61	DC	92	SER	2.9
70	DL	126	GLN	2.9
1	1	2091	A	2.9
1	AS	67	C	2.9
1	AS	132	U	2.9
1	AS	2321	C	2.9
23	BP	71	ASN	2.9
46	B	222	C	2.9
1	1	2459	G	2.9
1	1	2464	A	2.9
1	1	2468	C	2.9
1	1	2469	A	2.9
11	BD	58	HIS	2.9
46	CM	306	C	2.9
46	CM	319	C	2.9
46	CM	659	U	2.9
80	P0	56	ASN	2.9
13	BF	19	LEU	2.9
48	CO	218	LEU	2.9
65	DG	28	LEU	2.9
71	DM	93	LEU	2.9
82	L1	210	MET	2.9
6	l	12	VAL	2.9
7	AZ	26	GLY	2.9
19	BL	83	VAL	2.9
23	BP	23	VAL	2.9
49	E	81	VAL	2.9
50	F	181	GLY	2.9
58	N	68	GLY	2.9
64	DF	93	VAL	2.9
50	CQ	222	PRO	2.9
54	J	182	PRO	2.9
4	AW	190	LYS	2.9
24	6	72	LYS	2.9
28	AA	27	LYS	2.9
28	BU	52	LYS	2.9
50	CQ	188	LYS	2.9
54	J	175	LYS	2.9
78	AR	60	LYS	2.9
7	m	186	GLU	2.9
13	s	106	ILE	2.9

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Mol	Chain	Res	Type	RSRZ
23	BP	74	PHE	2.9
27	9	26	GLU	2.9
36	CC	116	PHE	2.9
37	CD	38	PHE	2.9
47	C	173	ILE	2.9
56	L	129	ILE	2.9
63	T	124	ILE	2.9
78	DT	270	GLU	2.9
79	O	71	ILE	2.9
10	p	197	ALA	2.9
36	CC	110	ALA	2.9
37	AJ	94	ALA	2.9
51	CR	55	ALA	2.9
66	W	116	THR	2.9
68	Y	2	THR	2.9
72	DN	90	THR	2.9
80	P0	57	THR	2.9
33	BZ	20	ARG	2.9
49	CP	79	ARG	2.9
58	CY	33	ARG	2.9
80	p0	60	ARG	2.9
6	AY	213	ASP	2.9
14	BG	37	GLN	2.9
18	x	53	ASP	2.9
16	BI	118	SER	2.9
22	2	16	GLN	2.9
23	BP	109	GLN	2.9
48	CO	186	SER	2.9
63	DE	62	GLN	2.9
28	BU	80	LEU	2.9
29	AB	91	LEU	2.9
31	BX	43	LEU	2.9
57	M	89	LEU	2.9
59	DA	28	LEU	2.9
63	T	93	LEU	2.9
78	AR	83	SER	2.9
77	DS	137	HIS	2.9
78	AR	145	LEU	2.9
79	CZ	70	SER	2.9
23	5	19	VAL	2.9
33	BZ	43	VAL	2.9
47	C	100	GLY	2.9

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Mol	Chain	Res	Type	RSRZ
47	CN	21	ASN	2.9
49	CP	37	GLY	2.9
50	F	122	GLY	2.9
59	DA	78	ASN	2.9
65	DG	34	VAL	2.9
10	BC	160	PRO	2.9
28	BU	56	LYS	2.9
55	K	41	LYS	2.9
69	Z	5	LYS	2.9
72	DN	4	LYS	2.9
78	AR	56	GLY	2.9
80	P0	75	LYS	2.9
1	1	2308	C	2.9
1	AS	422	A	2.9
1	AS	2436	A	2.9
10	BC	178	TYR	2.9
54	CU	169	TYR	2.9
7	AZ	185	ILE	2.9
7	AZ	223	PHE	2.9
11	BD	9	ILE	2.9
24	6	102	ILE	2.9
30	BW	21	ILE	2.9
33	BZ	47	PHE	2.9
34	AG	32	ILE	2.9
45	CL	88	PHE	2.9
54	CU	45	ILE	2.9
78	DT	123	ILE	2.9
80	P0	41	ILE	2.9
1	1	91	G	2.8
1	AS	421	G	2.8
1	AS	2374	G	2.8
7	m	263	GLU	2.8
7	AZ	281	GLU	2.8
20	z	145	ALA	2.8
46	CM	939	G	2.8
46	CM	1103	G	2.8
51	CR	258	ALA	2.8
54	CU	55	ALA	2.8
33	BZ	45	ARG	2.8
53	CT	230	ARG	2.8
56	CW	3	ARG	2.8
68	Y	97	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
60	DB	84	THR	2.8
80	P0	89	THR	2.8
53	CT	75	LEU	2.8
79	O	52	LEU	2.8
10	BC	62	GLN	2.8
47	C	165	LYS	2.8
47	CN	167	LYS	2.8
51	G	127	LYS	2.8
53	CT	81	HIS	2.8
54	J	43	LYS	2.8
55	CV	45	SER	2.8
55	CV	125	LYS	2.8
57	M	33	ASP	2.8
78	AR	4	GLN	2.8
82	ll	119	GLN	2.8
6	AY	287	VAL	2.8
12	r	15	LYS	2.8
13	BF	4	LYS	2.8
13	BF	174	LYS	2.8
27	9	116	LYS	2.8
27	BT	8	VAL	2.8
7	m	149	GLY	2.8
7	AZ	221	SER	2.8
58	N	15	LYS	2.8
58	CY	15	LYS	2.8
58	CY	29	LYS	2.8
62	S	21	VAL	2.8
65	DG	71	VAL	2.8
77	DS	141	LYS	2.8
78	DT	202	SER	2.8
82	L1	87	VAL	2.8
10	p	183	GLY	2.8
68	DJ	127	GLY	2.8
30	BW	6	ASN	2.8
57	M	83	PRO	2.8
67	X	14	PRO	2.8
7	AZ	231	ILE	2.8
9	BB	187	TYR	2.8
10	p	28	PHE	2.8
22	BO	56	TYR	2.8
39	AL	38	PHE	2.8
47	CN	133	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
48	D	29	TRP	2.8
48	CO	48	ILE	2.8
56	L	95	TYR	2.8
56	L	164	TYR	2.8
1	1	2438	U	2.8
1	1	2479	U	2.8
1	1	3163	U	2.8
1	AS	250	U	2.8
1	AS	3132	U	2.8
4	AW	73	GLU	2.8
6	AY	138	ALA	2.8
14	BG	134	GLU	2.8
36	CC	64	GLU	2.8
36	CC	120	ALA	2.8
43	AP	103	ALA	2.8
46	B	764	U	2.8
60	DB	45	ALA	2.8
61	DC	106	GLU	2.8
1	1	452	A	2.8
12	r	10	ARG	2.8
1	1	2797	C	2.8
1	AS	487	C	2.8
1	AS	1563	A	2.8
1	AS	2336	A	2.8
46	B	25	C	2.8
46	B	536	A	2.8
46	CM	104	A	2.8
70	DL	128	ARG	2.8
10	BC	153	LEU	2.8
11	BD	56	THR	2.8
14	t	167	THR	2.8
20	z	94	LEU	2.8
49	E	205	THR	2.8
36	AI	1	MET	2.8
51	CR	207	LEU	2.8
54	J	95	LEU	2.8
55	CV	171	LEU	2.8
60	Q	28	LEU	2.8
78	AR	32	LEU	2.8
78	DT	120	LEU	2.8
1	1	1949	G	2.8
1	AS	1252	G	2.8

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Mol	Chain	Res	Type	RSRZ
5	AX	237	LYS	2.8
36	AI	115	LYS	2.8
46	B	514	G	2.8
20	BM	174	GLN	2.8
22	BO	79	VAL	2.8
46	B	1775	G	2.8
53	CT	73	VAL	2.8
56	L	127	VAL	2.8
72	DN	93	LYS	2.8
77	DS	132	LYS	2.8
59	DA	36	GLN	2.8
18	BK	54	HIS	2.8
22	2	81	GLY	2.8
75	f	3	HIS	2.8
68	Y	55	ASP	2.8
81	12	161	ASP	2.8
21	0	85	SER	2.8
53	I	181	PRO	2.8
53	CT	173	PRO	2.8
63	T	43	SER	2.8
63	T	65	PRO	2.8
68	Y	29	PRO	2.8
69	Z	6	PRO	2.8
78	AR	243	SER	2.8
47	C	164	ASN	2.8
51	G	109	PHE	2.8
52	CS	95	ASN	2.8
52	CS	177	ILE	2.8
54	J	81	PHE	2.8
56	L	142	ASN	2.8
74	DP	13	ILE	2.8
82	ll	134	PHE	2.8
35	CB	13	TYR	2.8
52	H	61	TYR	2.8
59	P	40	TYR	2.8
5	AX	300	ARG	2.8
7	m	157	ALA	2.8
14	BG	60	ALA	2.8
16	BI	3	ALA	2.8
17	w	191	ALA	2.8
37	CD	81	ARG	2.8
45	CL	113	ARG	2.8

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Mol	Chain	Res	Type	RSRZ
47	CN	130	ALA	2.8
56	L	56	ALA	2.8
71	DM	79	ALA	2.8
7	AZ	292	GLU	2.8
13	s	15	GLU	2.8
55	CV	61	GLU	2.8
62	DD	124	GLU	2.8
1	1	1623	U	2.8
1	1	2450	U	2.8
1	1	2947	U	2.8
46	CM	1047	U	2.8
27	BT	35	LEU	2.8
36	CC	17	LEU	2.8
38	CE	8	LEU	2.8
49	E	67	LEU	2.8
62	S	43	LEU	2.8
64	DF	116	LEU	2.8
79	CZ	52	LEU	2.8
27	9	46	LYS	2.8
27	BT	122	LYS	2.8
30	BW	5	LYS	2.8
39	AL	21	LYS	2.8
18	BK	32	THR	2.8
1	1	1224	C	2.8
1	1	1789	C	2.8
1	AS	398	A	2.8
1	AS	2844	A	2.8
19	y	11	VAL	2.8
22	2	154	VAL	2.8
53	I	158	VAL	2.8
61	R	124	THR	2.8
78	AR	254	THR	2.8
82	l1	13	VAL	2.8
82	l1	149	THR	2.8
46	B	513	A	2.8
35	AH	78	GLY	2.8
53	I	55	GLY	2.8
61	DC	91	GLY	2.8
65	V	70	GLN	2.8
10	BC	26	PRO	2.8
52	H	62	ILE	2.8
56	CW	140	ILE	2.8

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Mol	Chain	Res	Type	RSRZ
71	b	91	PRO	2.8
82	l1	121	PRO	2.8
32	BY	47	ASP	2.8
37	CD	41	SER	2.8
42	AO	3	ASP	2.8
78	AR	35	SER	2.8
1	1	866	G	2.8
1	1	2342	G	2.8
6	AY	243	ALA	2.8
7	AZ	77	ALA	2.8
7	AZ	79	TYR	2.8
14	BG	169	TYR	2.8
16	BI	149	ASN	2.8
33	AF	45	ARG	2.8
41	AN	14	ASN	2.8
48	CO	29	TRP	2.8
48	CO	117	TRP	2.8
50	CQ	201	ARG	2.8
46	B	1672	G	2.8
52	H	44	ASN	2.8
53	I	206	ALA	2.8
55	CV	130	ALA	2.8
64	DF	44	ASN	2.8
64	DF	104	ASN	2.8
80	p0	49	ALA	2.8
51	CR	252	GLU	2.8
28	AA	80	LEU	2.8
38	CE	14	LYS	2.8
43	CJ	104	LEU	2.8
53	CT	76	LEU	2.8
54	CU	144	LYS	2.8
70	a	11	LYS	2.8
82	L1	17	LEU	2.8
51	G	227	VAL	2.8
54	CU	148	VAL	2.8
56	L	85	VAL	2.8
64	DF	4	VAL	2.8
70	a	55	VAL	2.8
77	h	144	VAL	2.8
78	DT	124	VAL	2.8
62	DD	3	THR	2.8
63	DE	30	THR	2.8

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Mol	Chain	Res	Type	RSRZ
1	1	2486	U	2.8
1	1	2487	U	2.8
46	B	1048	U	2.8
46	CM	116	U	2.8
46	CM	556	U	2.8
6	l	87	GLY	2.8
11	BD	165	CYS	2.8
6	AY	249	ILE	2.8
10	BC	224	ILE	2.8
14	t	166	GLN	2.8
13	s	102	PHE	2.8
25	7	49	ILE	2.8
29	BV	65	GLN	2.8
39	CF	51	GLN	2.8
45	CL	104	GLN	2.8
53	CT	34	GLN	2.8
48	CO	38	PHE	2.8
62	DD	50	PRO	2.8
64	U	14	ILE	2.8
69	Z	107	PHE	2.8
78	DT	65	HIS	2.8
25	7	98	PRO	2.8
74	e	47	PRO	2.8
77	h	166	PRO	2.8
1	AS	76	A	2.8
46	B	1004	A	2.8
46	CM	712	A	2.8
1	1	1578	C	2.8
1	1	2338	C	2.8
1	AS	1223	C	2.8
46	B	1611	C	2.8
50	CQ	95	ARG	2.8
6	l	66	TRP	2.8
6	AY	110	TRP	2.8
7	AZ	90	TYR	2.8
14	t	18	TRP	2.8
16	BI	62	TYR	2.8
24	6	7	SER	2.8
39	AL	2	ALA	2.8
50	F	226	SER	2.8
56	CW	152	SER	2.8
58	CY	114	ALA	2.8

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Mol	Chain	Res	Type	RSRZ
61	DC	120	SER	2.8
69	DK	90	ASP	2.8
77	DS	143	ALA	2.8
78	AR	294	ASP	2.8
24	BQ	104	ASN	2.8
41	CH	33	ASN	2.8
70	DL	31	ASN	2.8
82	ll	197	ASN	2.8
9	o	99	LYS	2.8
22	2	157	GLU	2.8
37	CD	44	LYS	2.8
54	CU	51	LYS	2.8
58	N	5	LEU	2.8
77	h	142	LEU	2.8
82	ll	53	LEU	2.8
61	R	112	VAL	2.8
61	DC	126	VAL	2.8
1	AS	1086	G	2.8
1	AS	1558	G	2.8
82	ll	127	THR	2.8
4	j	248	GLY	2.8
78	DT	191	GLY	2.8
18	BK	58	ILE	2.8
7	AZ	32	GLN	2.7
13	s	127	PHE	2.8
51	G	145	ARG	2.7
51	CR	195	ILE	2.8
55	K	175	ILE	2.8
63	T	3	ARG	2.7
65	DG	25	GLN	2.7
68	Y	128	PHE	2.8
1	1	1013	U	2.7
1	AS	2389	U	2.7
1	AS	2442	U	2.7
10	BC	32	PRO	2.7
35	CB	59	PRO	2.7
46	B	101	U	2.7
46	B	1037	U	2.7
46	CM	696	U	2.7
77	DS	166	PRO	2.7
79	O	82	PRO	2.7
10	p	210	ALA	2.7

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Mol	Chain	Res	Type	RSRZ
31	BX	97	ALA	2.7
78	AR	279	ALA	2.7
13	s	52	TYR	2.7
9	o	178	SER	2.7
19	y	8	LYS	2.7
48	CO	160	LYS	2.7
51	CR	103	TYR	2.7
55	CV	124	LYS	2.7
55	CV	198	TYR	2.7
36	CC	19	SER	2.7
65	V	44	ASP	2.7
66	W	37	SER	2.7
78	DT	163	SER	2.7
80	P0	92	ASP	2.7
1	AS	2186	A	2.7
7	AZ	146	LEU	2.7
49	E	53	LEU	2.7
56	L	118	LEU	2.7
78	DT	271	LEU	2.7
1	AS	101	C	2.7
1	AS	2476	C	2.7
6	AY	111	ASN	2.7
13	s	38	GLU	2.7
51	CR	199	GLU	2.7
33	BZ	11	VAL	2.7
61	DC	93	VAL	2.7
78	AR	124	VAL	2.7
5	k	4	ARG	2.7
7	AZ	70	THR	2.7
7	AZ	148	ILE	2.7
13	BF	113	GLY	2.7
27	9	4	ILE	2.7
28	AA	54	THR	2.7
28	BU	48	ARG	2.7
62	S	69	THR	2.7
68	Y	57	ARG	2.7
77	h	158	ARG	2.7
16	BI	194	HIS	2.7
25	7	78	HIS	2.7
27	BT	81	GLN	2.7
48	CO	101	HIS	2.7
48	CO	118	GLN	2.7

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Mol	Chain	Res	Type	RSRZ
1	1	1015	G	2.7
1	1	1245	G	2.7
1	AS	238	G	2.7
1	AS	904	G	2.7
1	AS	1888	G	2.7
46	B	1755	G	2.7
46	CM	856	G	2.7
58	CY	47	ALA	2.7
82	L1	84	ALA	2.7
37	CD	66	LYS	2.7
43	AP	100	LYS	2.7
51	CR	128	LYS	2.7
80	P0	55	LYS	2.7
1	1	1550	U	2.7
1	1	2484	U	2.7
1	1	3320	U	2.7
19	y	138	LEU	2.7
46	B	556	U	2.7
46	B	1335	U	2.7
46	B	1644	U	2.7
46	CM	506	U	2.7
54	CU	34	LEU	2.7
78	DT	240	LEU	2.7
79	O	59	LEU	2.7
82	L1	163	LEU	2.7
6	AY	165	ASP	2.7
35	CB	79	SER	2.7
56	L	145	SER	2.7
66	W	27	SER	2.7
7	m	178	ASN	2.7
10	p	204	VAL	2.7
10	p	211	GLU	2.7
11	q	190	GLU	2.7
28	AA	31	GLU	2.7
39	AL	4	GLU	2.7
39	CF	31	VAL	2.7
48	CO	209	ASN	2.7
52	H	216	GLU	2.7
66	W	71	ASN	2.7
72	c	8	ASN	2.7
78	DT	306	VAL	2.7
80	P0	20	GLU	2.7

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Mol	Chain	Res	Type	RSRZ
1	AS	2377	A	2.7
1	AS	2439	A	2.7
1	AS	3050	A	2.7
46	B	216	A	2.7
46	B	712	A	2.7
1	1	3051	C	2.7
1	AS	2468	C	2.7
6	l	199	ARG	2.7
25	7	47	ARG	2.7
46	B	1602	C	2.7
46	CM	695	C	2.7
54	J	137	ARG	2.7
28	BU	16	GLY	2.7
33	BZ	49	GLY	2.7
55	CV	169	GLY	2.7
7	AZ	75	PHE	2.7
14	t	14	PHE	2.7
47	CN	203	PHE	2.7
54	J	165	PHE	2.7
57	CX	86	ILE	2.7
58	N	42	PHE	2.7
73	DO	43	ILE	2.7
82	L1	206	ILE	2.7
82	l1	216	ILE	2.7
30	AC	8	THR	2.7
63	T	106	THR	2.7
77	h	146	THR	2.7
78	AR	41	THR	2.7
16	BI	42	PRO	2.7
54	J	85	HIS	2.7
58	N	59	PRO	2.7
71	DM	55	PRO	2.7
82	l1	135	PRO	2.7
14	BG	166	GLN	2.7
32	BY	84	ALA	2.7
51	CR	2	ALA	2.7
55	CV	79	ALA	2.7
63	DE	74	GLN	2.7
75	f	20	GLN	2.7
17	BJ	20	LEU	2.7
19	y	166	LEU	2.7
36	CC	92	LEU	2.7

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Mol	Chain	Res	Type	RSRZ
49	CP	56	LEU	2.7
50	F	114	LEU	2.7
51	G	42	LEU	2.7
56	CW	36	LEU	2.7
63	DE	73	LEU	2.7
78	AR	180	LEU	2.7
6	AY	95	CYS	2.7
6	AY	263	TYR	2.7
10	BC	56	TYR	2.7
22	2	156	TYR	2.7
47	C	162	CYS	2.7
11	BD	1	MET	2.7
6	AY	299	VAL	2.7
39	CF	56	VAL	2.7
1	1	2305	U	2.7
46	CM	1722	U	2.7
48	D	186	SER	2.7
54	J	151	ASP	2.7
54	CU	119	ASP	2.7
69	Z	90	ASP	2.7
1	AS	419	G	2.7
1	AS	2444	G	2.7
1	AS	2786	G	2.7
9	BB	91	ASN	2.7
37	CD	88	GLU	2.7
16	BI	63	ARG	2.7
41	CH	35	ARG	2.7
46	B	676	G	2.7
46	B	1776	G	2.7
61	DC	31	GLU	2.7
55	K	74	ARG	2.7
57	CX	38	ARG	2.7
61	DC	98	ASN	2.7
68	Y	88	ARG	2.7
70	DL	132	ARG	2.7
72	c	28	ARG	2.7
12	r	167	ILE	2.7
80	P0	96	ILE	2.7
68	Y	79	PHE	2.7
78	AR	62	PHE	2.7
80	P0	12	PHE	2.7
1	1	1043	A	2.7

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Mol	Chain	Res	Type	RSRZ
1	1	2362	A	2.7
1	1	2446	A	2.7
9	BB	88	LYS	2.7
16	BI	47	LYS	2.7
26	8	25	LYS	2.7
33	BZ	37	LYS	2.7
54	J	71	THR	2.7
46	B	577	A	2.7
46	B	620	A	2.7
46	CM	408	A	2.7
46	CM	410	A	2.7
48	CO	45	LYS	2.7
78	AR	284	PRO	2.7
6	l	348	ALA	2.7
28	BU	29	HIS	2.7
1	AS	1360	C	2.7
28	BU	106	GLN	2.7
39	AL	40	GLN	2.7
50	F	33	GLN	2.7
56	CW	60	LEU	2.7
78	AR	9	LEU	2.7
35	CB	62	TYR	2.7
65	DG	66	TYR	2.7
22	2	79	VAL	2.7
27	BT	104	VAL	2.7
47	C	123	VAL	2.7
50	CQ	40	VAL	2.7
52	CS	114	VAL	2.7
62	S	18	VAL	2.7
71	DM	62	VAL	2.7
73	DO	40	CYS	2.7
36	CC	90	ARG	2.7
55	CV	25	ARG	2.7
65	V	123	ARG	2.7
4	j	95	SER	2.7
7	m	213	ASP	2.7
11	q	37	ASP	2.7
14	BG	52	ASP	2.7
51	G	250	SER	2.7
65	DG	44	ASP	2.7
79	CZ	99	GLU	2.7
7	m	290	ILE	2.7

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Mol	Chain	Res	Type	RSRZ
9	o	93	ILE	2.7
12	BE	99	ILE	2.7
27	BT	44	ASN	2.7
52	H	120	ILE	2.7
78	AR	123	ILE	2.7
81	12	132	ILE	2.7
1	AS	2465	U	2.7
1	AS	2479	U	2.7
9	o	223	GLY	2.7
23	BP	48	GLY	2.7
34	AG	46	GLY	2.7
36	CC	111	PHE	2.7
46	B	132	U	2.7
46	B	139	U	2.7
51	G	107	GLY	2.7
53	CT	156	PHE	2.7
62	DD	130	GLY	2.7
76	g	2	GLY	2.7
10	BC	64	LYS	2.7
25	BR	102	LYS	2.7
40	CG	48	LYS	2.7
54	J	80	LYS	2.7
70	DL	11	LYS	2.7
72	c	93	LYS	2.7
13	BF	99	THR	2.7
66	W	109	PRO	2.7
82	L1	212	PRO	2.7
1	1	2128	G	2.7
1	1	2458	G	2.7
1	AS	794	G	2.7
1	AS	1085	G	2.7
1	AS	2461	G	2.7
1	AS	2577	G	2.7
1	AS	2813	G	2.7
5	k	51	ALA	2.7
16	v	55	ALA	2.7
19	y	77	ALA	2.7
23	5	21	ALA	2.7
29	AB	25	HIS	2.7
43	CJ	70	LEU	2.7
46	B	535	G	2.7
46	B	702	G	2.7

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Mol	Chain	Res	Type	RSRZ
46	CM	1087	G	2.7
48	CO	141	ALA	2.7
51	CR	222	LEU	2.7
65	V	62	ALA	2.7
78	DT	222	LEU	2.7
9	o	17	GLN	2.7
62	DD	82	GLN	2.7
1	1	1023	A	2.7
15	BH	114	MET	2.7
46	B	847	A	2.7
46	CM	242	A	2.7
26	BS	46	TYR	2.7
27	9	8	VAL	2.7
29	BV	130	VAL	2.7
48	CO	121	VAL	2.7
82	L1	32	VAL	2.7
82	l1	151	VAL	2.7
1	AS	247	C	2.7
1	AS	2383	C	2.7
46	B	1610	C	2.7
46	CM	228	C	2.7
56	L	126	ARG	2.7
78	DT	156	ARG	2.7
8	BA	133	GLU	2.6
9	BB	93	ILE	2.6
49	CP	173	ILE	2.6
51	G	245	ILE	2.6
53	I	175	ILE	2.6
65	V	124	ILE	2.6
9	BB	178	SER	2.6
11	BD	54	LYS	2.6
15	BH	122	PHE	2.6
25	7	27	LYS	2.6
29	AB	116	GLY	2.6
39	CF	36	LYS	2.6
49	E	233	SER	2.6
51	G	86	PHE	2.6
52	H	82	PHE	2.6
54	J	107	LYS	2.6
55	K	55	PHE	2.6
62	DD	105	LYS	2.6
66	W	52	LYS	2.6

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Mol	Chain	Res	Type	RSRZ
68	Y	21	GLY	2.6
69	DK	108	GLY	2.6
82	L1	207	LYS	2.6
16	BI	117	ASN	2.6
32	BY	68	ASN	2.6
78	AR	136	ASN	2.6
7	AZ	93	THR	2.6
10	p	163	LEU	2.6
10	BC	110	LEU	2.6
13	s	70	THR	2.6
24	BQ	113	ALA	2.6
32	AE	40	THR	2.6
37	AJ	2	ALA	2.6
40	CG	24	PRO	2.6
48	CO	231	LEU	2.6
52	CS	30	PRO	2.6
38	CE	80	THR	2.6
46	CM	1044	U	2.6
60	Q	12	ALA	2.6
72	c	67	LEU	2.6
80	P0	18	LEU	2.6
82	l1	128	LEU	2.6
46	B	75	U	2.6
46	B	318	U	2.6
11	BD	64	HIS	2.6
58	CY	18	HIS	2.6
72	DN	80	HIS	2.6
35	AH	64	GLN	2.6
61	DC	89	MET	2.6
7	AZ	53	VAL	2.6
17	BJ	37	VAL	2.6
44	AQ	31	VAL	2.6
47	C	119	ARG	2.6
50	CQ	174	ARG	2.6
54	J	126	VAL	2.6
54	CU	56	VAL	2.6
71	DM	77	ARG	2.6
73	d	80	ARG	2.6
7	m	219	TYR	2.6
7	AZ	272	TYR	2.6
27	BT	19	TYR	2.6
47	C	38	TYR	2.6

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Mol	Chain	Res	Type	RSRZ
69	Z	29	TYR	2.6
1	1	2452	G	2.6
1	AS	1371	G	2.6
46	B	723	G	2.6
46	CM	677	G	2.6
1	AS	156	A	2.6
4	AW	234	LYS	2.6
16	BI	77	LYS	2.6
46	B	1727	A	2.6
46	B	1743	A	2.6
51	G	211	LYS	2.6
56	L	10	LYS	2.6
56	L	51	LYS	2.6
61	DC	58	LYS	2.6
82	ll	4	ILE	2.6
12	BE	114	GLY	2.6
18	BK	134	GLY	2.6
41	CH	23	CYS	2.6
43	CJ	101	GLY	2.6
47	C	76	CYS	2.6
55	K	180	GLY	2.6
55	K	185	CYS	2.6
61	R	17	PHE	2.6
74	e	24	GLY	2.6
1	1	1195	C	2.6
1	AS	3246	C	2.6
14	BG	127	ASP	2.6
26	8	29	SER	2.6
46	B	1019	C	2.6
66	DH	27	SER	2.6
4	AW	7	ASN	2.6
6	AY	135	LEU	2.6
33	BZ	76	LEU	2.6
49	CP	222	PRO	2.6
51	CR	94	ALA	2.6
52	CS	100	ASN	2.6
57	CX	80	LEU	2.6
23	BP	58	ALA	2.6
35	CB	82	ALA	2.6
57	M	45	ALA	2.6
68	Y	80	ASN	2.6
69	Z	22	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
78	DT	286	ALA	2.6
18	x	32	THR	2.6
28	BU	97	THR	2.6
30	BW	13	THR	2.6
63	T	121	THR	2.6
51	G	69	HIS	2.6
4	j	184	ARG	2.6
4	AW	233	GLN	2.6
6	AY	96	ARG	2.6
36	AI	16	GLN	2.6
55	CV	110	ARG	2.6
61	DC	127	ARG	2.6
1	1	881	U	2.6
1	AS	1254	U	2.6
1	AS	1265	U	2.6
1	AS	1568	U	2.6
5	k	331	VAL	2.6
46	B	1675	U	2.6
46	CM	132	U	2.6
46	CM	258	U	2.6
50	F	138	VAL	2.6
53	CT	97	VAL	2.6
59	P	60	VAL	2.6
79	CZ	121	VAL	2.6
4	j	190	LYS	2.6
4	AW	70	LYS	2.6
16	BI	13	LYS	2.6
16	BI	14	LYS	2.6
54	J	153	LYS	2.6
58	N	29	LYS	2.6
63	DE	63	LYS	2.6
64	DF	42	TYR	2.6
65	DG	78	LYS	2.6
78	AR	63	LYS	2.6
82	L1	39	LYS	2.6
10	p	65	ILE	2.6
12	BE	131	ILE	2.6
17	w	44	ILE	2.6
61	DC	57	ILE	2.6
79	CZ	72	ILE	2.6
24	BQ	11	PHE	2.6
29	AB	53	PHE	2.6

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Mol	Chain	Res	Type	RSRZ
44	CK	14	PHE	2.6
55	CV	27	PHE	2.6
62	S	45	PHE	2.6
70	a	64	PHE	2.6
4	j	53	GLY	2.6
4	j	232	GLY	2.6
10	BC	101	GLU	2.6
43	CJ	16	GLU	2.6
51	G	25	GLY	2.6
51	CR	4	GLY	2.6
61	DC	99	GLY	2.6
69	Z	35	GLY	2.6
73	d	68	GLY	2.6
78	AR	140	GLU	2.6
80	P0	54	GLY	2.6
4	AW	71	LEU	2.6
15	BH	128	LEU	2.6
47	C	16	LEU	2.6
49	E	108	LEU	2.6
51	CR	9	LEU	2.6
82	L1	29	LEU	2.6
1	1	1022	A	2.6
1	1	2675	A	2.6
1	AS	1589	A	2.6
1	AS	2185	A	2.6
6	AY	154	SER	2.6
7	m	267	ALA	2.6
10	BC	104	ALA	2.6
1	AS	3217	G	2.6
5	AX	63	PRO	2.6
12	r	5	PRO	2.6
13	BF	119	SER	2.6
28	BU	39	PRO	2.6
29	BV	2	PRO	2.6
46	B	509	A	2.6
51	CR	223	SER	2.6
54	J	164	SER	2.6
56	CW	13	SER	2.6
58	CY	65	SER	2.6
61	R	73	PRO	2.6
75	DQ	18	SER	2.6
46	B	705	G	2.6

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Mol	Chain	Res	Type	RSRZ
78	DT	159	PRO	2.6
4	AW	115	ASN	2.6
28	BU	127	ASN	2.6
1	1	2473	C	2.6
4	AW	184	ARG	2.6
7	AZ	154	THR	2.6
7	AZ	244	HIS	2.6
10	p	69	ARG	2.6
25	BR	58	HIS	2.6
30	BW	50	THR	2.6
41	AN	41	HIS	2.6
47	C	101	ARG	2.6
55	CV	170	ARG	2.6
56	CW	126	ARG	2.6
56	CW	130	THR	2.6
61	DC	124	THR	2.6
66	W	98	THR	2.6
78	DT	313	MET	2.6
82	ll	31	THR	2.6
23	BP	38	VAL	2.6
73	d	35	VAL	2.6
82	L1	9	VAL	2.6
23	BP	30	GLN	2.6
63	DE	42	GLN	2.6
70	a	122	GLN	2.6
54	J	79	LYS	2.6
77	h	124	LYS	2.6
78	AR	310	TRP	2.6
79	CZ	95	LYS	2.6
1	1	2306	U	2.6
1	1	2449	U	2.6
1	AS	1830	U	2.6
1	AS	2815	U	2.6
1	AS	3218	U	2.6
14	BG	85	ILE	2.6
23	5	96	ILE	2.6
28	BU	77	TYR	2.6
35	CB	20	ILE	2.6
54	J	169	TYR	2.6
46	CM	989	U	2.6
46	CM	1356	U	2.6
49	E	63	ILE	2.6

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Mol	Chain	Res	Type	RSRZ
70	a	48	TYR	2.6
71	b	101	TYR	2.6
46	B	624	U	2.6
46	B	710	U	2.6
46	B	1064	U	2.6
71	DM	41	ILE	2.6
28	BU	118	PHE	2.6
33	AF	47	PHE	2.6
63	DE	71	PHE	2.6
62	S	129	GLY	2.6
68	DJ	48	GLY	2.6
4	AW	32	LEU	2.6
6	AY	259	LEU	2.6
8	n	41	LEU	2.6
8	BA	75	LEU	2.6
10	BC	47	LEU	2.6
16	v	197	LEU	2.6
47	CN	201	LEU	2.6
78	DT	90	LEU	2.6
18	BK	42	GLU	2.6
23	BP	59	GLU	2.6
45	CL	135	GLU	2.6
9	BB	16	ALA	2.6
11	BD	98	PRO	2.6
14	BG	136	ALA	2.6
36	AI	2	ALA	2.6
52	H	26	ALA	2.6
72	DN	49	ALA	2.6
13	s	55	ARG	2.6
20	z	98	ARG	2.6
36	CC	13	SER	2.6
52	CS	83	ARG	2.6
75	DQ	12	ARG	2.6
78	DT	208	CYS	2.6
63	DE	82	ASP	2.6
4	AW	199	THR	2.6
6	AY	161	THR	2.6
13	BF	147	THR	2.6
20	z	134	HIS	2.6
35	CB	68	THR	2.6
41	AN	42	THR	2.6
45	i	66	ASN	2.6

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Mol	Chain	Res	Type	RSRZ
50	F	224	VAL	2.6
51	G	224	ASN	2.6
51	CR	70	VAL	2.6
77	DS	129	THR	2.6
78	AR	155	VAL	2.6
78	AR	193	THR	2.6
80	P0	105	VAL	2.6
82	ll	209	THR	2.6
1	1	2463	A	2.6
59	DA	9	LYS	2.6
63	T	14	LYS	2.6
6	l	356	GLN	2.6
12	BE	133	GLN	2.6
1	1	188	G	2.6
1	1	1025	G	2.6
1	1	1130	G	2.6
6	AY	107	TRP	2.6
1	1	2129	C	2.6
1	AS	245	G	2.6
1	AS	358	G	2.6
1	AS	1017	G	2.6
3	AU	115	C	2.6
14	BG	46	ILE	2.6
46	B	1412	C	2.6
46	B	1697	C	2.6
46	CM	830	G	2.6
57	M	3	ILE	2.6
59	DA	84	ILE	2.6
65	DG	116	ILE	2.6
78	DT	307	ILE	2.6
7	AZ	160	PHE	2.6
7	AZ	260	PHE	2.6
16	BI	21	PHE	2.6
28	BU	4	PHE	2.6
41	CH	24	TYR	2.6
48	CO	142	PHE	2.6
50	CQ	198	PHE	2.6
82	ll	72	PHE	2.6
26	8	82	LEU	2.6
49	E	129	LEU	2.6
55	K	167	GLY	2.6
78	DT	9	LEU	2.6

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Mol	Chain	Res	Type	RSRZ
78	DT	92	LEU	2.6
1	AS	1012	U	2.6
1	AS	1564	U	2.6
1	AS	2449	U	2.6
1	AS	3163	U	2.6
8	n	129	GLU	2.6
48	D	230	ALA	2.6
48	CO	57	ALA	2.6
50	F	220	PRO	2.6
55	CV	143	ARG	2.6
56	L	23	ARG	2.6
56	CW	79	ARG	2.6
59	DA	151	ALA	2.6
63	DE	67	ARG	2.6
70	a	61	ARG	2.6
74	DP	63	ALA	2.6
78	AR	14	GLU	2.6
78	DT	5	GLU	2.6
6	l	70	ARG	2.6
6	AY	196	ARG	2.6
6	AY	199	ARG	2.6
78	DT	24	ALA	2.6
79	O	57	ALA	2.6
29	BV	122	PRO	2.6
59	P	17	PRO	2.6
73	DO	33	MET	2.6
6	AY	293	SER	2.6
7	AZ	105	VAL	2.6
10	p	80	SER	2.6
10	BC	241	SER	2.6
33	AF	85	VAL	2.6
39	CF	37	LYS	2.6
51	G	212	ASP	2.6
52	CS	206	SER	2.6
62	S	6	VAL	2.6
78	DT	210	SER	2.6
81	12	143	VAL	2.6
6	AY	317	ASN	2.6
12	BE	205	ASN	2.6
24	BQ	115	THR	2.6
29	BV	46	ASP	2.6
45	i	98	ASP	2.6

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Mol	Chain	Res	Type	RSRZ
35	AH	14	ASN	2.6
39	AL	34	ASN	2.6
52	CS	147	THR	2.6
59	DA	67	THR	2.6
62	S	20	HIS	2.6
66	W	86	HIS	2.6
78	AR	314	THR	2.6
7	AZ	222	ILE	2.5
34	CA	31	GLN	2.5
76	g	24	GLN	2.5
78	AR	307	ILE	2.5
78	DT	178	TRP	2.5
1	AS	1227	A	2.5
1	AS	2518	A	2.5
22	BO	15	PHE	2.5
23	5	74	PHE	2.5
28	BU	134	LEU	2.5
46	B	367	A	2.5
46	B	1132	A	2.5
47	C	202	TYR	2.5
54	J	138	TYR	2.5
55	CV	83	TYR	2.5
56	L	114	PHE	2.5
62	S	56	LEU	2.5
62	S	78	TYR	2.5
63	T	71	PHE	2.5
55	CV	121	LEU	2.5
78	AR	207	LEU	2.5
4	AW	228	GLY	2.5
47	CN	166	GLY	2.5
48	CO	63	GLY	2.5
66	DH	110	GLY	2.5
78	DT	15	GLY	2.5
1	AS	1011	C	2.5
1	AS	2309	C	2.5
13	s	145	ARG	2.5
16	BI	26	ARG	2.5
28	BU	117	ALA	2.5
35	AH	63	ALA	2.5
35	CB	60	ARG	2.5
46	B	274	C	2.5
45	i	80	ALA	2.5

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Mol	Chain	Res	Type	RSRZ
45	i	133	ALA	2.5
47	CN	20	ALA	2.5
48	CO	145	ARG	2.5
51	G	253	ARG	2.5
51	CR	213	ALA	2.5
53	CT	198	ALA	2.5
54	J	55	ALA	2.5
60	DB	35	ALA	2.5
63	T	11	ARG	2.5
82	ll	71	ALA	2.5
1	1	2429	G	2.5
1	AS	353	G	2.5
1	AS	1345	G	2.5
1	AS	3194	G	2.5
46	CM	537	G	2.5
46	CM	702	G	2.5
63	DE	75	GLU	2.5
10	BC	174	MET	2.5
77	h	164	PRO	2.5
78	DT	30	PRO	2.5
1	AS	977	U	2.5
1	AS	1814	U	2.5
1	AS	2925	U	2.5
3	AU	22	U	2.5
8	n	128	LYS	2.5
9	BB	237	VAL	2.5
19	BL	171	LYS	2.5
26	BS	96	LYS	2.5
28	AA	62	VAL	2.5
46	B	278	U	2.5
46	B	311	U	2.5
46	B	491	U	2.5
46	B	1014	U	2.5
46	B	1341	U	2.5
50	F	76	LYS	2.5
70	DL	35	VAL	2.5
71	b	46	LYS	2.5
72	c	21	VAL	2.5
7	m	278	THR	2.5
8	n	172	HIS	2.5
21	BN	34	THR	2.5
50	F	56	THR	2.5

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Mol	Chain	Res	Type	RSRZ
62	S	120	SER	2.5
70	a	6	THR	2.5
78	DT	73	THR	2.5
82	ll	73	ASP	2.5
16	BI	90	ASN	2.5
27	BT	98	ASN	2.5
51	CR	96	ASN	2.5
59	DA	69	ASN	2.5
64	U	26	ILE	2.5
66	DH	117	ILE	2.5
71	DM	71	ILE	2.5
78	DT	217	ILE	2.5
78	DT	297	ASN	2.5
8	BA	8	TRP	2.5
34	AG	31	GLN	2.5
7	AZ	113	LEU	2.5
17	BJ	179	LEU	2.5
23	BP	50	LEU	2.5
47	CN	24	LEU	2.5
48	D	24	PHE	2.5
48	D	207	LEU	2.5
51	G	189	LEU	2.5
78	AR	201	LEU	2.5
78	DT	268	LEU	2.5
80	P0	52	LEU	2.5
63	T	53	TYR	2.5
35	CB	27	GLY	2.5
63	DE	2	GLY	2.5
16	BI	50	ARG	2.5
26	8	33	ARG	2.5
55	CV	141	ARG	2.5
76	g	43	ARG	2.5
77	DS	161	ARG	2.5
79	CZ	43	ARG	2.5
21	0	116	ALA	2.5
56	L	119	ALA	2.5
78	AR	286	ALA	2.5
1	1	1590	A	2.5
1	1	2948	A	2.5
1	AS	1149	A	2.5
46	CM	469	A	2.5
8	BA	156	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
16	v	104	GLU	2.5
16	BI	131	GLU	2.5
17	BJ	104	LYS	2.5
19	BL	50	LYS	2.5
20	BM	140	GLU	2.5
23	5	102	LYS	2.5
48	D	196	GLU	2.5
52	H	126	GLU	2.5
52	CS	99	MET	2.5
64	DF	80	LYS	2.5
74	DP	50	GLU	2.5
82	L1	85	MET	2.5
8	n	4	VAL	2.5
10	p	258	VAL	2.5
10	BC	126	VAL	2.5
52	CS	162	VAL	2.5
59	DA	60	VAL	2.5
70	a	24	VAL	2.5
78	DT	20	VAL	2.5
1	1	1555	C	2.5
1	1	2309	C	2.5
1	1	2871	C	2.5
1	AS	173	C	2.5
1	AS	1798	C	2.5
46	CM	482	C	2.5
1	1	2544	U	2.5
1	AS	2477	U	2.5
21	0	87	ILE	2.5
30	AC	7	HIS	2.5
1	1	2430	G	2.5
1	1	2548	G	2.5
10	BC	48	SER	2.5
28	BU	94	SER	2.5
33	BZ	3	THR	2.5
46	B	373	U	2.5
46	CM	276	U	2.5
46	B	1699	G	2.5
48	CO	200	SER	2.5
51	CR	26	THR	2.5
62	S	36	THR	2.5
72	DN	17	HIS	2.5
76	DR	50	THR	2.5

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Mol	Chain	Res	Type	RSRZ
46	B	23	G	2.5
5	AX	379	PHE	2.5
10	BC	245	ASP	2.5
48	CO	108	ASP	2.5
47	C	175	TRP	2.5
51	G	50	ASN	2.5
56	L	36	LEU	2.5
56	CW	158	PHE	2.5
58	CY	37	ASP	2.5
63	DE	103	ASP	2.5
68	Y	54	ASP	2.5
79	CZ	104	CYS	2.5
80	P0	48	ASP	2.5
6	l	60	GLN	2.5
6	AY	297	GLN	2.5
18	x	140	GLN	2.5
23	5	109	GLN	2.5
70	a	18	LEU	2.5
70	DL	74	LEU	2.5
73	DO	27	GLN	2.5
73	DO	73	LEU	2.5
7	AZ	49	TYR	2.5
16	BI	73	ARG	2.5
20	z	83	GLY	2.5
29	BV	116	GLY	2.5
35	AH	16	ARG	2.5
50	CQ	41	ARG	2.5
52	CS	65	ARG	2.5
53	CT	169	TYR	2.5
15	BH	118	LYS	2.5
16	BI	33	LYS	2.5
26	8	23	ALA	2.5
28	BU	19	ALA	2.5
34	CA	2	ALA	2.5
42	AO	16	LYS	2.5
45	i	127	ALA	2.5
47	C	159	ALA	2.5
53	CT	149	LYS	2.5
55	K	124	LYS	2.5
59	P	109	LYS	2.5
78	AR	250	ALA	2.5
78	DT	59	LYS	2.5

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Mol	Chain	Res	Type	RSRZ
80	P0	62	ALA	2.5
7	m	117	GLU	2.5
9	BB	8	GLU	2.5
10	p	140	VAL	2.5
11	BD	43	VAL	2.5
17	BJ	35	VAL	2.5
29	BV	123	VAL	2.5
37	CD	23	PRO	2.5
43	CJ	76	VAL	2.5
47	C	86	VAL	2.5
47	CN	22	VAL	2.5
50	F	92	VAL	2.5
50	CQ	200	PRO	2.5
54	CU	59	PRO	2.5
48	D	163	GLU	2.5
51	G	89	VAL	2.5
51	G	219	VAL	2.5
62	S	50	PRO	2.5
78	DT	105	VAL	2.5
78	DT	236	GLU	2.5
1	1	2959	A	2.5
1	AS	1907	A	2.5
1	AS	2519	A	2.5
28	BU	46	ILE	2.5
50	F	175	HIS	2.5
55	CV	9	HIS	2.5
65	DG	111	ILE	2.5
81	12	118	HIS	2.5
27	9	35	LEU	2.5
28	AA	63	THR	2.5
36	AI	41	LEU	2.5
45	CL	155	LEU	2.5
1	1	800	C	2.5
1	AS	1552	C	2.5
1	AS	1919	C	2.5
1	AS	2467	C	2.5
16	BI	43	SER	2.5
29	BV	68	PHE	2.5
49	E	112	THR	2.5
54	J	13	LEU	2.5
56	CW	118	LEU	2.5
78	AR	13	LEU	2.5

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Mol	Chain	Res	Type	RSRZ
78	DT	242	PHE	2.5
78	DT	249	LEU	2.5
81	12	133	LEU	2.5
1	AS	343	U	2.5
1	AS	2438	U	2.5
6	AY	60	GLN	2.5
6	AY	356	GLN	2.5
19	y	112	ASP	2.5
27	9	7	ASP	2.5
35	AH	41	ARG	2.5
46	CM	697	U	2.5
54	CU	154	ASP	2.5
59	DA	87	ASP	2.5
65	V	8	ASP	2.5
67	DI	42	ASP	2.5
69	DK	71	CYS	2.5
73	DO	81	ARG	2.5
8	BA	71	ASN	2.5
22	BO	77	ASN	2.5
46	B	609	U	2.5
46	B	1102	U	2.5
77	DS	179	ASP	2.5
78	AR	77	ASP	2.5
82	11	94	ASN	2.5
36	AI	3	GLY	2.5
50	CQ	141	GLY	2.5
53	CT	146	GLY	2.5
49	E	152	LYS	2.5
51	G	246	LYS	2.5
52	CS	109	LYS	2.5
60	DB	53	TYR	2.5
64	DF	144	GLY	2.5
4	AW	125	ALA	2.5
6	AY	47	LYS	2.5
27	9	77	LYS	2.5
35	CB	50	ALA	2.5
41	AN	31	ALA	2.5
45	CL	102	LYS	2.5
78	AR	241	ALA	2.5
79	CZ	118	ALA	2.5
1	1	171	G	2.5
1	1	2425	G	2.5

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Mol	Chain	Res	Type	RSRZ
1	1	2426	G	2.5
1	AS	188	G	2.5
1	AS	2441	G	2.5
1	AS	2527	G	2.5
46	B	1111	G	2.5
46	B	1112	G	2.5
46	B	1650	G	2.5
12	BE	214	PRO	2.5
15	u	13	VAL	2.5
19	BL	11	VAL	2.5
28	AA	72	VAL	2.5
52	H	162	VAL	2.5
54	J	109	PRO	2.5
54	CU	69	VAL	2.5
62	S	66	VAL	2.5
70	DL	24	VAL	2.5
73	d	28	PRO	2.5
19	BL	78	GLU	2.5
30	AC	60	GLU	2.5
82	ll	22	GLU	2.5
7	m	69	ILE	2.5
22	2	160	ILE	2.5
26	BS	88	ILE	2.5
33	AF	51	ILE	2.5
47	C	50	ILE	2.5
51	CR	249	ILE	2.5
52	CS	137	ILE	2.5
55	CV	189	ILE	2.5
64	DF	14	ILE	2.5
81	12	151	ILE	2.5
16	BI	37	HIS	2.5
50	F	47	LEU	2.5
58	N	140	LEU	2.5
62	DD	92	HIS	2.5
64	DF	54	LEU	2.5
71	DM	51	LEU	2.5
82	ll	17	LEU	2.5
6	l	74	ARG	2.5
10	p	58	ARG	2.5
28	BU	92	PHE	2.5
29	BV	129	PHE	2.5
41	CH	37	ARG	2.5

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Mol	Chain	Res	Type	RSRZ
45	i	79	THR	2.5
45	CL	90	ARG	2.5
47	CN	185	ARG	2.5
51	G	221	ARG	2.5
57	M	67	THR	2.5
60	Q	121	THR	2.5
62	DD	16	THR	2.5
80	p0	42	ARG	2.5
1	1	3050	A	2.5
1	AS	824	A	2.5
1	AS	932	A	2.5
46	B	1701	A	2.5
13	s	6	GLN	2.5
23	5	100	SER	2.5
33	BZ	100	SER	2.5
36	CC	20	GLN	2.5
52	CS	63	GLN	2.5
64	U	56	LYS	2.5
71	DM	63	SER	2.5
78	AR	164	SER	2.5
79	O	70	SER	2.5
82	ll	198	TRP	2.5
36	CC	103	LYS	2.5
36	CC	119	LYS	2.5
37	CD	73	LYS	2.5
73	d	69	GLY	2.5
8	BA	5	ALA	2.5
29	BV	48	TYR	2.5
32	BY	79	ASN	2.5
41	CH	20	CYS	2.5
41	CH	34	CYS	2.5
59	P	21	ASN	2.5
45	CL	49	ALA	2.5
47	C	65	ALA	2.5
47	C	178	ALA	2.5
53	I	138	ALA	2.5
55	K	204	ALA	2.5
1	1	2690	U	2.5
1	1	3056	C	2.5
1	AS	1833	U	2.5
1	AS	3306	U	2.5
46	B	480	U	2.5

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Mol	Chain	Res	Type	RSRZ
46	B	482	C	2.5
46	B	1294	C	2.5
46	CM	281	U	2.5
46	CM	1505	C	2.5
67	DI	1	MET	2.5
23	BP	65	VAL	2.5
28	BU	68	VAL	2.5
54	CU	87	VAL	2.5
70	DL	57	VAL	2.5
78	DT	72	VAL	2.5
26	BS	116	PRO	2.5
47	C	11	PRO	2.5
56	L	101	PRO	2.5
6	AY	295	GLU	2.5
7	m	210	GLU	2.5
11	BD	114	ILE	2.4
49	E	173	ILE	2.4
51	G	147	ILE	2.4
78	AR	43	ILE	2.4
17	BJ	175	LEU	2.4
74	e	54	LEU	2.4
78	DT	145	LEU	2.4
82	ll	16	LEU	2.4
1	1	2500	G	2.4
1	AS	119	G	2.4
1	AS	791	G	2.4
1	AS	2426	G	2.4
46	B	508	G	2.4
46	CM	1707	G	2.4
49	E	163	ARG	2.4
51	CR	221	ARG	2.4
53	I	50	PHE	2.4
55	CV	74	ARG	2.4
28	AA	122	HIS	2.4
4	AW	68	LYS	2.4
15	BH	126	LYS	2.4
23	BP	107	LYS	2.4
28	BU	64	LYS	2.4
29	BV	77	LYS	2.4
47	CN	40	THR	2.4
55	K	123	LYS	2.4
58	N	63	THR	2.4

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Mol	Chain	Res	Type	RSRZ
77	DS	189	THR	2.4
78	DT	46	LYS	2.4
82	l1	52	THR	2.4
9	BB	239	GLN	2.4
11	BD	8	GLN	2.4
18	x	45	GLN	2.4
27	9	6	GLN	2.4
36	CC	62	GLN	2.4
38	CE	86	GLN	2.4
55	K	183	GLY	2.4
56	L	131	GLN	2.4
60	Q	10	GLY	2.4
62	S	93	GLN	2.4
62	DD	60	GLN	2.4
64	U	37	GLY	2.4
69	Z	111	GLY	2.4
79	CZ	127	GLY	2.4
6	AY	8	SER	2.4
8	BA	65	SER	2.4
10	BC	185	ALA	2.4
13	s	48	SER	2.4
23	BP	73	SER	2.4
29	BV	95	SER	2.4
53	CT	6	SER	2.4
47	CN	45	MET	2.4
50	F	120	ALA	2.4
68	Y	122	SER	2.4
27	BT	43	TYR	2.4
35	AH	7	TYR	2.4
56	CW	91	MET	2.4
64	DF	111	ASP	2.4
77	h	147	TYR	2.4
78	AR	142	MET	2.4
78	AR	214	ASP	2.4
82	L1	150	ASP	2.4
1	1	880	A	2.4
1	1	1126	A	2.4
1	AS	2464	A	2.4
6	l	72	VAL	2.4
11	BD	126	VAL	2.4
13	s	130	VAL	2.4
14	t	22	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
19	BL	82	VAL	2.4
23	5	101	VAL	2.4
46	CM	468	A	2.4
60	DB	37	VAL	2.4
71	b	40	VAL	2.4
79	CZ	60	CYS	2.4
4	AW	178	PRO	2.4
17	BJ	122	PRO	2.4
49	E	222	PRO	2.4
78	AR	273	PRO	2.4
1	1	1272	U	2.4
1	1	2483	U	2.4
1	1	2691	U	2.4
1	AS	258	U	2.4
1	AS	1623	U	2.4
1	AS	2818	U	2.4
46	CM	1674	U	2.4
1	1	798	C	2.4
1	1	1276	C	2.4
1	1	2457	C	2.4
7	AZ	239	ILE	2.4
11	BD	99	ILE	2.4
13	s	21	ILE	2.4
37	CD	60	ILE	2.4
39	CF	20	ILE	2.4
4	AW	6	ARG	2.4
4	AW	36	GLU	2.4
4	AW	136	ILE	2.4
6	AY	319	LEU	2.4
11	BD	151	LEU	2.4
36	CC	10	ARG	2.4
45	i	132	GLU	2.4
56	CW	45	ILE	2.4
57	CX	3	ILE	2.4
47	C	184	LEU	2.4
50	CQ	143	LEU	2.4
51	CR	40	GLU	2.4
60	DB	28	LEU	2.4
60	DB	123	ARG	2.4
74	e	29	ARG	2.4
75	DQ	4	GLU	2.4
77	DS	188	LEU	2.4

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Mol	Chain	Res	Type	RSRZ
78	AR	308	ARG	2.4
78	DT	7	LEU	2.4
78	DT	99	GLU	2.4
80	P0	74	GLU	2.4
82	l1	80	LEU	2.4
6	l	200	PHE	2.4
62	S	9	PHE	2.4
7	m	68	HIS	2.4
19	BL	185	LYS	2.4
27	BT	64	LYS	2.4
28	BU	21	LYS	2.4
30	BW	7	HIS	2.4
48	D	152	LYS	2.4
71	DM	46	LYS	2.4
79	CZ	54	LYS	2.4
23	5	57	THR	2.4
35	CB	56	THR	2.4
58	N	21	THR	2.4
66	W	28	THR	2.4
67	X	20	THR	2.4
78	DT	100	THR	2.4
11	BD	15	GLY	2.4
10	BC	90	GLN	2.4
14	BG	86	ALA	2.4
29	BV	35	ALA	2.4
36	CC	16	GLN	2.4
38	CE	79	GLN	2.4
39	CF	15	ALA	2.4
45	CL	77	GLN	2.4
49	CP	239	ALA	2.4
52	H	63	GLN	2.4
52	H	85	ALA	2.4
66	W	80	ALA	2.4
76	DR	24	GLN	2.4
1	1	2371	G	2.4
1	AS	3000	G	2.4
7	m	52	VAL	2.4
9	o	197	SER	2.4
10	p	165	VAL	2.4
12	r	197	VAL	2.4
34	CA	103	TYR	2.4
36	AI	75	TYR	2.4

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Mol	Chain	Res	Type	RSRZ
52	H	79	SER	2.4
59	DA	7	SER	2.4
60	DB	8	VAL	2.4
60	DB	120	SER	2.4
67	X	13	VAL	2.4
79	CZ	66	VAL	2.4
80	P0	101	VAL	2.4
51	G	57	ASN	2.4
52	CS	128	ASN	2.4
69	Z	71	CYS	2.4
82	ll	61	PRO	2.4
7	AZ	92	LEU	2.4
7	AZ	227	ILE	2.4
7	AZ	290	ILE	2.4
9	BB	139	LEU	2.4
13	s	172	LEU	2.4
14	BG	91	ARG	2.4
19	BL	147	ARG	2.4
20	z	177	LEU	2.4
22	2	5	ARG	2.4
23	5	50	LEU	2.4
26	8	142	ILE	2.4
28	BU	5	ILE	2.4
47	C	187	ILE	2.4
54	J	73	LEU	2.4
57	CX	40	LEU	2.4
61	DC	84	ILE	2.4
62	DD	43	LEU	2.4
64	DF	113	LEU	2.4
77	DS	158	ARG	2.4
1	AS	313	A	2.4
1	AS	1486	A	2.4
1	AS	1906	A	2.4
1	AS	2440	A	2.4
1	AS	2466	A	2.4
20	BM	148	GLU	2.4
28	BU	120	GLU	2.4
46	CM	1694	A	2.4
48	CO	191	GLU	2.4
79	CZ	25	GLU	2.4
1	AS	1432	U	2.4
1	AS	1567	U	2.4

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Mol	Chain	Res	Type	RSRZ
6	l	147	LYS	2.4
6	l	351	LYS	2.4
16	v	192	LYS	2.4
17	w	4	PHE	2.4
17	BJ	92	LYS	2.4
23	5	15	PHE	2.4
23	BP	85	LYS	2.4
28	AA	64	LYS	2.4
28	BU	69	LYS	2.4
43	CJ	15	LYS	2.4
49	E	156	LYS	2.4
64	DF	48	LYS	2.4
73	DO	79	PHE	2.4
80	P0	66	PHE	2.4
80	p0	66	PHE	2.4
46	B	1016	U	2.4
1	1	2451	C	2.4
1	AS	259	C	2.4
4	AW	249	THR	2.4
18	x	7	THR	2.4
30	AC	13	THR	2.4
39	CF	53	THR	2.4
45	CL	58	THR	2.4
52	H	27	THR	2.4
52	H	125	THR	2.4
68	DJ	4	THR	2.4
72	DN	16	GLY	2.4
22	BO	113	ALA	2.4
26	BS	59	ALA	2.4
28	BU	81	MET	2.4
58	CY	27	ALA	2.4
78	AR	290	ALA	2.4
6	AY	160	VAL	2.4
14	BG	22	VAL	2.4
21	0	36	VAL	2.4
22	BO	109	VAL	2.4
50	F	207	VAL	2.4
53	CT	36	VAL	2.4
60	Q	25	VAL	2.4
68	Y	121	VAL	2.4
69	Z	75	GLN	2.4
70	DL	63	GLN	2.4

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Mol	Chain	Res	Type	RSRZ
56	L	34	TYR	2.4
6	l	18	SER	2.4
16	BI	45	PRO	2.4
21	0	39	SER	2.4
29	BV	94	SER	2.4
48	CO	107	SER	2.4
52	H	67	PRO	2.4
62	S	33	SER	2.4
63	DE	70	SER	2.4
6	l	75	ILE	2.4
7	AZ	88	ILE	2.4
14	t	12	ASN	2.4
15	BH	23	ASN	2.4
16	BI	51	LEU	2.4
16	BI	65	ARG	2.4
20	BM	122	ASN	2.4
23	5	37	LEU	2.4
23	5	93	ARG	2.4
39	CF	8	ILE	2.4
39	CF	28	ASN	2.4
41	CH	45	LEU	2.4
43	AP	83	LEU	2.4
45	i	111	ASP	2.4
47	C	79	ARG	2.4
53	CT	139	ASN	2.4
54	J	162	LEU	2.4
56	L	76	LEU	2.4
62	S	122	ARG	2.4
63	DE	34	LEU	2.4
70	a	20	ARG	2.4
70	DL	93	ARG	2.4
77	h	133	ILE	2.4
77	DS	133	ILE	2.4
10	p	107	LYS	2.4
10	BC	93	LYS	2.4
14	BG	190	LYS	2.4
23	BP	14	LYS	2.4
28	AA	133	LYS	2.4
45	i	100	LYS	2.4
55	CV	140	LYS	2.4
58	CY	26	LYS	2.4
1	1	421	G	2.4

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Mol	Chain	Res	Type	RSRZ
1	1	2432	G	2.4
1	AS	1225	G	2.4
7	AZ	180	PHE	2.4
45	CL	126	GLU	2.4
46	B	335	G	2.4
46	B	1131	G	2.4
46	CM	1723	G	2.4
55	K	193	GLU	2.4
56	L	47	PHE	2.4
62	DD	45	PHE	2.4
63	T	28	PHE	2.4
75	f	14	PHE	2.4
1	1	2130	A	2.4
1	AS	1843	A	2.4
6	l	141	HIS	2.4
46	B	739	A	2.4
1	1	2424	U	2.4
1	1	2546	U	2.4
9	BB	112	GLY	2.4
12	r	188	GLY	2.4
13	BF	105	GLY	2.4
19	y	183	GLY	2.4
5	k	292	ALA	2.4
5	AX	372	THR	2.4
6	AY	294	ALA	2.4
10	BC	257	ALA	2.4
20	z	89	MET	2.4
59	P	59	GLY	2.4
47	C	95	ALA	2.4
50	F	178	MET	2.4
78	DT	78	GLY	2.4
25	BR	81	ALA	2.4
51	G	184	THR	2.4
55	K	67	TRP	2.4
56	L	22	ALA	2.4
58	N	31	THR	2.4
58	N	114	ALA	2.4
64	U	138	THR	2.4
65	V	39	THR	2.4
78	AR	45	TRP	2.4
82	ll	112	ALA	2.4
33	AF	43	VAL	2.4

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Mol	Chain	Res	Type	RSRZ
53	CT	162	VAL	2.4
55	CV	174	VAL	2.4
65	DG	37	VAL	2.4
78	AR	132	VAL	2.4
14	t	151	GLN	2.4
28	BU	132	GLN	2.4
1	1	1128	C	2.4
1	1	1624	C	2.4
1	1	1781	C	2.4
8	n	134	ARG	2.4
13	BF	52	TYR	2.4
46	CM	498	C	2.4
19	BL	97	PRO	2.4
35	AH	59	PRO	2.4
40	AM	46	ARG	2.4
50	CQ	147	ARG	2.4
51	G	150	PRO	2.4
53	CT	132	ARG	2.4
19	y	167	SER	2.4
21	BN	162	LEU	2.4
22	2	4	SER	2.4
33	BZ	103	SER	2.4
39	CF	68	SER	2.4
49	CP	196	SER	2.4
51	CR	38	LEU	2.4
51	CR	123	LEU	2.4
55	K	164	SER	2.4
56	CW	76	LEU	2.4
65	DG	65	ILE	2.4
69	DK	133	LEU	2.4
72	c	53	LEU	2.4
73	d	8	LEU	2.4
82	L1	216	ILE	2.4
16	v	56	LYS	2.4
45	CL	101	LYS	2.4
6	l	111	ASN	2.4
8	BA	59	ASP	2.4
9	o	225	ASP	2.4
14	t	187	LYS	2.4
56	CW	157	ASP	2.4
60	DB	77	LYS	2.4
70	a	26	ASP	2.4

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Mol	Chain	Res	Type	RSRZ
75	f	54	LYS	2.4
78	DT	63	LYS	2.4
10	BC	205	ASN	2.4
12	BE	55	ASN	2.4
14	BG	11	ASN	2.4
24	BQ	28	ASN	2.4
57	CX	28	ASN	2.4
9	BB	114	PHE	2.4
11	BD	92	PHE	2.4
13	s	22	CYS	2.4
17	BJ	106	PHE	2.4
54	CU	127	PHE	2.4
62	S	128	PHE	2.4
69	DK	86	PHE	2.4
70	a	119	PHE	2.4
10	BC	203	GLU	2.4
14	BG	139	GLU	2.4
16	v	29	GLU	2.4
28	AA	47	GLU	2.4
48	D	191	GLU	2.4
59	P	58	HIS	2.4
6	AY	98	GLY	2.4
7	m	208	MET	2.4
16	BI	88	GLY	2.4
33	AF	125	GLY	2.4
38	AK	9	GLY	2.4
78	DT	36	GLY	2.4
28	BU	49	ALA	2.4
1	1	420	G	2.4
1	1	2445	G	2.4
1	AS	855	G	2.4
1	AS	1813	G	2.4
1	AS	2430	G	2.4
1	AS	2570	G	2.4
10	p	122	THR	2.4
20	BM	30	THR	2.4
48	CO	20	VAL	2.4
50	F	176	VAL	2.4
51	G	225	VAL	2.4
74	DP	48	VAL	2.4
46	B	494	G	2.4
46	B	1724	G	2.4

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Mol	Chain	Res	Type	RSRZ
46	B	1744	G	2.4
1	1	1810	A	2.4
1	AS	246	U	2.4
1	AS	248	U	2.4
1	AS	2469	A	2.4
4	j	247	ARG	2.4
7	m	54	ARG	2.4
13	s	92	ARG	2.4
14	t	117	GLN	2.4
25	7	42	GLN	2.4
46	B	675	U	2.4
46	B	1074	U	2.4
46	B	1176	U	2.4
46	B	1386	A	2.4
46	CM	504	A	2.4
47	C	83	GLN	2.4
51	CR	68	GLN	2.4
80	P0	10	GLN	2.4
80	P0	46	ARG	2.4
18	x	176	LEU	2.3
4	AW	46	LYS	2.3
6	l	354	LYS	2.3
6	AY	113	LYS	2.3
7	AZ	112	LYS	2.3
12	r	196	TYR	2.3
13	s	17	LEU	2.3
14	BG	7	LEU	2.3
23	5	54	ILE	2.3
25	7	28	ILE	2.3
25	7	113	LYS	2.3
35	CB	7	TYR	2.3
37	CD	51	PRO	2.3
43	CJ	9	LYS	2.3
44	AQ	18	TYR	2.3
51	G	38	LEU	2.3
53	CT	190	LEU	2.3
54	J	37	LEU	2.3
49	E	180	LYS	2.3
50	F	121	TYR	2.3
52	CS	80	LYS	2.3
52	CS	209	TYR	2.3
53	I	178	LEU	2.3

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Mol	Chain	Res	Type	RSRZ
54	CU	122	LEU	2.3
64	DF	101	LEU	2.3
69	Z	3	LYS	2.3
72	DN	94	ILE	2.3
82	ll	90	LEU	2.3
27	BT	102	SER	2.3
1	1	1273	C	2.3
1	AS	2457	C	2.3
1	AS	2848	C	2.3
7	m	223	PHE	2.3
47	C	203	PHE	2.3
51	G	24	SER	2.3
54	CU	152	SER	2.3
56	CW	9	SER	2.3
13	s	20	ASN	2.3
23	BP	44	ASP	2.3
46	B	1018	C	2.3
78	AR	242	PHE	2.3
51	G	151	ASP	2.3
12	BE	56	GLU	2.3
28	AA	103	GLU	2.3
79	CZ	79	CYS	2.3
6	l	84	HIS	2.3
7	AZ	187	ALA	2.3
12	BE	132	GLY	2.3
14	BG	99	HIS	2.3
16	BI	55	ALA	2.3
35	AH	69	HIS	2.3
37	CD	64	GLY	2.3
47	C	171	GLY	2.3
63	DE	107	ALA	2.3
64	DF	24	GLY	2.3
78	AR	76	ALA	2.3
78	AR	81	ALA	2.3
81	12	122	GLY	2.3
23	5	38	VAL	2.3
23	BP	34	VAL	2.3
35	AH	22	VAL	2.3
52	H	155	VAL	2.3
52	H	160	VAL	2.3
54	CU	177	VAL	2.3
64	U	133	VAL	2.3

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Mol	Chain	Res	Type	RSRZ
78	DT	134	VAL	2.3
7	m	15	ARG	2.3
7	AZ	118	THR	2.3
9	BB	98	ARG	2.3
9	BB	213	ARG	2.3
13	BF	31	THR	2.3
14	BG	49	ARG	2.3
29	BV	26	ARG	2.3
60	Q	21	THR	2.3
61	DC	67	THR	2.3
65	V	52	THR	2.3
70	a	62	THR	2.3
70	DL	6	THR	2.3
78	AR	220	TRP	2.3
78	DT	200	THR	2.3
79	CZ	67	THR	2.3
82	ll	21	THR	2.3
4	AW	77	ILE	2.3
16	BI	140	LYS	2.3
26	BS	40	LEU	2.3
29	AB	93	LYS	2.3
29	BV	27	LYS	2.3
29	BV	81	LEU	2.3
30	BW	54	LEU	2.3
31	AD	21	LYS	2.3
31	BX	42	LYS	2.3
32	BY	3	LEU	2.3
35	CB	67	LYS	2.3
36	CC	37	GLN	2.3
39	AL	6	LYS	2.3
41	CH	12	LYS	2.3
44	CK	7	LYS	2.3
6	AY	150	PRO	2.3
7	m	255	PRO	2.3
11	BD	172	ILE	2.3
13	BF	87	LYS	2.3
47	CN	182	LEU	2.3
51	G	90	ILE	2.3
51	G	260	GLN	2.3
52	H	199	ILE	2.3
52	CS	149	ILE	2.3
56	L	65	LYS	2.3

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Mol	Chain	Res	Type	RSRZ
63	DE	46	LEU	2.3
65	V	38	LYS	2.3
68	DJ	7	LEU	2.3
77	h	132	LYS	2.3
82	ll	103	LEU	2.3
78	AR	257	ILE	2.3
80	p0	10	GLN	2.3
13	BF	118	PRO	2.3
77	DS	182	TYR	2.3
1	1	894	U	2.3
1	1	1129	A	2.3
1	1	2440	A	2.3
1	AS	790	U	2.3
1	AS	830	U	2.3
1	AS	2446	A	2.3
1	AS	2487	U	2.3
46	B	121	U	2.3
46	B	816	U	2.3
46	B	1216	U	2.3
46	CM	301	U	2.3
1	1	876	G	2.3
1	1	1503	G	2.3
1	AS	425	G	2.3
1	AS	1524	G	2.3
1	AS	1562	G	2.3
1	AS	2283	G	2.3
46	B	1405	G	2.3
46	B	1723	G	2.3
46	CM	1049	G	2.3
46	CM	1699	G	2.3
5	AX	125	SER	2.3
41	CH	18	SER	2.3
63	T	123	SER	2.3
79	CZ	53	SER	2.3
81	12	129	SER	2.3
19	BL	4	ASP	2.3
41	CH	43	ASN	2.3
48	CO	59	ASP	2.3
79	CZ	64	ASP	2.3
35	CB	87	GLU	2.3
79	O	56	GLU	2.3
51	G	65	MET	2.3

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Mol	Chain	Res	Type	RSRZ
1	1	845	C	2.3
1	1	2543	C	2.3
1	AS	1280	C	2.3
6	AY	9	VAL	2.3
7	AZ	127	GLY	2.3
7	AZ	280	ALA	2.3
10	p	185	ALA	2.3
11	BD	112	VAL	2.3
14	BG	149	VAL	2.3
17	BJ	181	ALA	2.3
20	z	65	ALA	2.3
20	BM	141	HIS	2.3
39	AL	35	GLY	2.3
46	B	130	C	2.3
46	B	707	C	2.3
46	B	716	C	2.3
46	B	1006	C	2.3
46	B	1133	C	2.3
53	I	146	GLY	2.3
60	DB	70	GLY	2.3
61	R	6	ALA	2.3
61	DC	26	VAL	2.3
62	S	54	VAL	2.3
77	DS	171	GLY	2.3
78	AR	169	ALA	2.3
78	AR	216	VAL	2.3
78	DT	251	ALA	2.3
43	CJ	8	ARG	2.3
54	J	92	ARG	2.3
63	T	45	ARG	2.3
64	DF	25	ARG	2.3
79	CZ	122	VAL	2.3
14	BG	130	THR	2.3
18	BK	150	LEU	2.3
25	7	51	TRP	2.3
45	CL	94	THR	2.3
63	T	34	LEU	2.3
75	f	30	LEU	2.3
78	AR	303	THR	2.3
10	BC	117	ILE	2.3
16	BI	36	ILE	2.3
50	F	87	ILE	2.3

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Mol	Chain	Res	Type	RSRZ
68	Y	83	ILE	2.3
13	s	45	PRO	2.3
36	CC	112	PRO	2.3
51	G	68	GLN	2.3
53	I	13	GLN	2.3
82	L1	59	PRO	2.3
28	AA	18	TYR	2.3
57	M	66	TYR	2.3
51	CR	99	PHE	2.3
57	M	16	PHE	2.3
1	1	246	U	2.3
1	1	2431	U	2.3
1	1	2442	U	2.3
1	AS	189	U	2.3
1	AS	1565	U	2.3
1	AS	1908	U	2.3
33	BZ	23	SER	2.3
46	CM	1048	U	2.3
48	CO	51	SER	2.3
59	DA	6	SER	2.3
78	DT	266	SER	2.3
1	1	2963	A	2.3
1	AS	506	A	2.3
1	AS	2117	A	2.3
1	AS	2319	A	2.3
3	AU	1	A	2.3
7	m	237	GLU	2.3
7	AZ	234	GLU	2.3
12	r	187	ASN	2.3
17	BJ	101	GLU	2.3
46	B	1479	A	2.3
46	CM	297	A	2.3
46	CM	518	A	2.3
46	CM	1050	A	2.3
54	J	119	ASP	2.3
56	L	91	MET	2.3
59	P	142	GLU	2.3
60	DB	32	GLU	2.3
61	DC	32	GLU	2.3
68	Y	41	MET	2.3
61	R	94	VAL	2.3
61	DC	130	ARG	2.3

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Mol	Chain	Res	Type	RSRZ
63	DE	105	ASP	2.3
77	h	162	GLU	2.3
6	AY	52	ALA	2.3
6	AY	166	ALA	2.3
12	r	2	ALA	2.3
13	s	129	VAL	2.3
20	BM	154	ALA	2.3
29	BV	127	ALA	2.3
50	F	103	ALA	2.3
53	I	157	VAL	2.3
55	CV	68	GLY	2.3
68	DJ	10	ALA	2.3
68	DJ	33	VAL	2.3
76	g	9	ALA	2.3
80	p0	64	ARG	2.3
1	1	2461	G	2.3
1	AS	283	G	2.3
1	AS	424	G	2.3
7	AZ	220	LYS	2.3
7	AZ	262	LYS	2.3
28	AA	52	LYS	2.3
31	AD	34	LYS	2.3
38	CE	12	HIS	2.3
4	AW	179	LEU	2.3
24	BQ	69	LEU	2.3
25	BR	54	LEU	2.3
41	CH	9	LEU	2.3
46	B	1093	G	2.3
54	J	68	LYS	2.3
58	N	102	LYS	2.3
59	P	9	LYS	2.3
66	W	68	LYS	2.3
82	l1	97	LYS	2.3
50	F	60	LEU	2.3
55	CV	149	LEU	2.3
62	DD	27	LEU	2.3
76	g	38	LEU	2.3
80	P0	70	LEU	2.3
10	BC	154	ILE	2.3
47	CN	174	TRP	2.3
54	J	94	ILE	2.3
78	AR	171	TRP	2.3

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Mol	Chain	Res	Type	RSRZ
82	L1	100	ILE	2.3
1	1	3032	C	2.3
2	3	73	C	2.3
2	AT	47	C	2.3
5	k	139	THR	2.3
5	AX	382	THR	2.3
18	x	183	THR	2.3
46	B	1375	C	2.3
46	B	1390	C	2.3
46	B	1505	C	2.3
43	AP	56	GLN	2.3
48	CO	24	PHE	2.3
50	CQ	19	TYR	2.3
51	G	27	TYR	2.3
54	CU	165	PHE	2.3
56	L	19	TYR	2.3
56	CW	95	TYR	2.3
65	DG	109	GLN	2.3
8	n	46	PHE	2.3
23	BP	110	PHE	2.3
26	BS	84	PHE	2.3
43	AP	36	PHE	2.3
7	AZ	3	MET	2.3
12	r	24	ARG	2.3
20	BM	5	ARG	2.3
27	9	60	ARG	2.3
35	AH	58	ARG	2.3
56	L	78	ARG	2.3
66	W	56	ARG	2.3
67	X	15	ARG	2.3
68	Y	3	ARG	2.3
10	p	206	SER	2.3
4	AW	198	LYS	2.3
7	m	271	LYS	2.3
7	AZ	43	LYS	2.3
10	p	175	GLY	2.3
10	BC	197	ALA	2.3
12	BE	195	ALA	2.3
17	BJ	187	ALA	2.3
19	y	140	VAL	2.3
25	BR	83	VAL	2.3
37	CD	26	SER	2.3

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Mol	Chain	Res	Type	RSRZ
38	CE	15	SER	2.3
39	AL	60	SER	2.3
22	BO	55	LYS	2.3
29	BV	149	ALA	2.3
30	AC	5	LYS	2.3
33	BZ	19	LYS	2.3
34	AG	36	ALA	2.3
39	CF	35	GLY	2.3
39	CF	59	ALA	2.3
44	AQ	40	SER	2.3
44	CK	21	SER	2.3
47	CN	61	ALA	2.3
50	F	135	VAL	2.3
51	G	126	VAL	2.3
49	CP	156	LYS	2.3
54	CU	53	ALA	2.3
55	K	122	GLY	2.3
55	CV	204	ALA	2.3
63	T	13	SER	2.3
63	DE	9	VAL	2.3
63	DE	110	VAL	2.3
72	DN	57	SER	2.3
78	DT	85	SER	2.3
56	CW	117	GLY	2.3
60	DB	10	GLY	2.3
76	g	28	LYS	2.3
78	AR	96	GLU	2.3
79	CZ	30	VAL	2.3
79	CZ	51	ALA	2.3
80	P0	27	VAL	2.3
80	P0	33	VAL	2.3
80	p0	44	ALA	2.3
82	L1	30	GLU	2.3
82	L1	109	ALA	2.3
82	l1	9	VAL	2.3
1	AS	2433	U	2.3
1	AS	2488	U	2.3
1	AS	2814	U	2.3
3	AU	23	U	2.3
3	AU	112	U	2.3
10	p	66	LEU	2.3
10	p	208	ASP	2.3

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Mol	Chain	Res	Type	RSRZ
29	AB	46	ASP	2.3
35	CB	11	ASN	2.3
35	CB	24	LYS	2.3
45	i	50	LYS	2.3
55	K	88	ASN	2.3
62	DD	31	ASN	2.3
64	U	49	LYS	2.3
19	y	5	HIS	2.3
41	CH	27	LEU	2.3
43	CJ	72	LEU	2.3
46	B	601	U	2.3
46	CM	1644	U	2.3
50	F	167	ASP	2.3
51	G	12	LEU	2.3
51	G	170	ASP	2.3
53	CT	216	LEU	2.3
54	CU	95	LEU	2.3
57	M	15	LEU	2.3
57	M	92	LEU	2.3
78	DT	269	ASP	2.3
80	p0	19	LEU	2.3
1	AS	1382	A	2.3
1	AS	2462	A	2.3
6	AY	291	ILE	2.3
9	o	125	ILE	2.3
10	BC	76	ILE	2.3
51	CR	18	TRP	2.3
53	CT	16	ILE	2.3
59	P	25	TRP	2.3
78	DT	310	TRP	2.3
79	O	60	CYS	2.3
26	BS	52	PRO	2.3
26	BS	81	THR	2.3
55	K	107	THR	2.3
58	CY	113	PRO	2.3
65	DG	39	THR	2.3
82	L1	135	PRO	2.3
7	m	63	GLN	2.3
13	BF	6	GLN	2.3
18	x	165	GLN	2.3
57	CX	17	GLN	2.3
70	a	106	GLN	2.3

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Mol	Chain	Res	Type	RSRZ
78	AR	299	PHE	2.3
80	p0	12	PHE	2.3
1	1	1813	G	2.3
1	AS	829	G	2.3
1	AS	1025	G	2.3
1	AS	1361	G	2.3
1	AS	1413	G	2.3
1	AS	1484	G	2.3
1	AS	3133	G	2.3
46	B	562	G	2.3
46	B	701	G	2.3
46	B	1441	G	2.3
46	B	1649	G	2.3
1	1	1574	C	2.3
1	AS	474	C	2.3
6	AY	198	ARG	2.3
7	m	279	ARG	2.3
13	BF	92	ARG	2.3
25	BR	23	ARG	2.3
26	BS	42	ARG	2.3
32	AE	69	ARG	2.3
20	BM	128	LYS	2.3
24	BQ	110	LYS	2.3
28	BU	116	LYS	2.3
32	BY	101	LYS	2.3
45	i	52	LYS	2.3
5	k	179	ALA	2.3
6	AY	296	VAL	2.3
10	BC	165	VAL	2.3
47	C	15	LYS	2.3
52	CS	106	LYS	2.3
54	CU	43	LYS	2.3
47	CN	159	ALA	2.3
50	F	187	VAL	2.3
63	T	59	LYS	2.3
75	f	16	LYS	2.3
78	AR	213	LYS	2.3
6	l	355	GLY	2.3
8	n	5	ALA	2.3
13	BF	121	GLY	2.3
14	t	195	ALA	2.3
51	G	119	ALA	2.3

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Mol	Chain	Res	Type	RSRZ
55	CV	13	ALA	2.3
80	P0	30	VAL	2.3
16	BI	78	GLY	2.3
6	AY	125	SER	2.3
14	BG	144	SER	2.3
16	BI	40	SER	2.3
17	w	20	LEU	2.3
27	BT	36	SER	2.3
30	BW	62	SER	2.3
45	CL	64	LEU	2.3
47	C	177	LEU	2.3
48	D	161	LEU	2.3
48	CO	217	LEU	2.3
49	E	118	SER	2.3
49	E	206	LEU	2.3
49	CP	240	GLU	2.3
63	T	125	SER	2.3
63	DE	87	GLU	2.3
64	DF	18	LEU	2.3
68	Y	11	LEU	2.3
71	b	51	LEU	2.3
22	BO	160	ILE	2.2
35	CB	46	ASP	2.2
36	CC	59	ASN	2.2
47	CN	72	ASP	2.2
50	CQ	55	ASN	2.2
51	CR	176	ASP	2.2
55	K	64	ASN	2.2
62	DD	119	ASP	2.2
70	a	53	ASP	2.2
78	AR	157	ILE	2.2
78	DT	52	ASP	2.2
10	BC	53	TRP	2.2
1	1	1117	U	2.2
1	1	1118	U	2.2
1	AS	1261	U	2.2
46	B	230	U	2.2
46	B	576	U	2.2
46	B	1376	U	2.2
46	B	1722	U	2.2
46	CM	133	U	2.2
7	AZ	139	PRO	2.2

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Mol	Chain	Res	Type	RSRZ
13	BF	154	THR	2.2
16	v	196	THR	2.2
19	y	172	PHE	2.2
20	BM	6	THR	2.2
29	BV	53	PHE	2.2
31	BX	68	PRO	2.2
39	AL	41	THR	2.2
48	CO	206	PRO	2.2
51	G	81	THR	2.2
51	G	217	THR	2.2
54	J	173	THR	2.2
59	P	145	THR	2.2
68	DJ	128	PHE	2.2
77	h	167	THR	2.2
77	DS	173	PHE	2.2
10	BC	78	GLN	2.2
26	8	47	GLN	2.2
33	BZ	53	GLN	2.2
35	CB	73	GLN	2.2
46	B	510	A	2.2
46	B	516	A	2.2
46	B	1137	A	2.2
58	N	97	TYR	2.2
61	R	123	TYR	2.2
64	U	63	GLN	2.2
68	DJ	64	GLN	2.2
5	AX	244	ARG	2.2
48	CO	213	ARG	2.2
51	CR	30	ARG	2.2
63	T	78	ARG	2.2
6	AY	147	LYS	2.2
13	s	142	LYS	2.2
17	w	194	LYS	2.2
28	BU	27	LYS	2.2
36	CC	73	LYS	2.2
41	AN	17	LYS	2.2
45	CL	52	LYS	2.2
48	D	167	LYS	2.2
53	CT	220	LYS	2.2
56	L	175	LYS	2.2
60	DB	31	LYS	2.2
62	S	101	LYS	2.2

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Mol	Chain	Res	Type	RSRZ
5	AX	205	VAL	2.2
6	AY	226	VAL	2.2
20	BM	139	VAL	2.2
29	BV	144	VAL	2.2
51	G	140	VAL	2.2
57	M	42	VAL	2.2
62	S	38	VAL	2.2
63	T	122	VAL	2.2
70	a	35	VAL	2.2
5	k	295	ALA	2.2
5	AX	246	LEU	2.2
7	AZ	157	ALA	2.2
10	BC	68	LEU	2.2
13	s	136	ALA	2.2
14	BG	74	GLY	2.2
19	BL	103	ALA	2.2
25	7	132	ALA	2.2
26	8	34	LEU	2.2
36	CC	88	LEU	2.2
47	C	82	GLY	2.2
49	E	39	LEU	2.2
50	F	177	LEU	2.2
51	G	247	LEU	2.2
55	K	30	GLY	2.2
56	CW	169	ALA	2.2
58	CY	61	ALA	2.2
68	Y	123	GLY	2.2
1	1	753	C	2.2
1	1	795	G	2.2
1	1	2481	G	2.2
1	1	2540	G	2.2
1	AS	1130	G	2.2
1	AS	2481	G	2.2
1	AS	2547	G	2.2
46	B	231	C	2.2
46	B	1067	C	2.2
7	m	232	GLU	2.2
46	B	1140	G	2.2
46	CM	657	C	2.2
81	12	159	GLU	2.2
19	BL	122	ILE	2.2
33	BZ	39	ILE	2.2

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Mol	Chain	Res	Type	RSRZ
47	C	23	HIS	2.2
49	E	105	HIS	2.2
52	H	152	SER	2.2
56	L	140	ILE	2.2
59	DA	5	HIS	2.2
62	S	92	HIS	2.2
74	DP	59	SER	2.2
19	y	136	ASN	2.2
67	DI	40	ASP	2.2
67	DI	67	ASP	2.2
68	Y	84	ASN	2.2
68	DJ	80	ASN	2.2
72	DN	91	ASP	2.2
82	L1	40	ASN	2.2
45	CL	107	TRP	2.2
50	F	204	PRO	2.2
50	CQ	168	PHE	2.2
51	CR	226	PHE	2.2
53	CT	130	PRO	2.2
56	L	163	PRO	2.2
56	CW	144	PRO	2.2
21	BN	166	THR	2.2
39	AL	53	THR	2.2
71	DM	102	THR	2.2
1	1	599	U	2.2
1	1	2067	U	2.2
1	1	2961	U	2.2
1	AS	975	U	2.2
1	AS	1622	U	2.2
1	AS	1817	U	2.2
4	AW	3	ARG	2.2
5	k	28	ARG	2.2
27	BT	115	ARG	2.2
33	BZ	25	ARG	2.2
8	BA	7	LYS	2.2
18	x	13	LYS	2.2
38	CE	39	TYR	2.2
43	AP	27	GLN	2.2
43	CJ	27	GLN	2.2
46	B	1696	U	2.2
47	C	62	ARG	2.2
52	CS	102	ARG	2.2

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Mol	Chain	Res	Type	RSRZ
53	I	199	GLN	2.2
57	CX	8	ARG	2.2
70	DL	106	GLN	2.2
42	CI	8	LYS	2.2
62	S	123	MET	2.2
62	DD	113	LYS	2.2
63	DE	84	TYR	2.2
78	DT	282	LYS	2.2
7	AZ	286	VAL	2.2
33	BZ	118	VAL	2.2
47	C	156	VAL	2.2
48	D	20	VAL	2.2
49	CP	178	VAL	2.2
53	CT	195	VAL	2.2
78	AR	306	VAL	2.2
1	AS	1429	A	2.2
13	BF	144	ALA	2.2
27	BT	126	ALA	2.2
41	AN	25	ALA	2.2
46	B	1076	A	2.2
47	CN	87	LEU	2.2
49	E	244	ALA	2.2
55	CV	151	ALA	2.2
55	CV	173	ALA	2.2
56	CW	159	ALA	2.2
61	R	49	LEU	2.2
65	V	83	ALA	2.2
71	DM	75	LEU	2.2
74	e	66	LEU	2.2
29	AB	23	GLY	2.2
55	CV	127	GLY	2.2
26	8	88	ILE	2.2
53	CT	226	ILE	2.2
56	L	134	ILE	2.2
62	S	64	ILE	2.2
78	AR	57	ILE	2.2
78	AR	287	ILE	2.2
8	BA	103	GLU	2.2
10	p	29	GLU	2.2
21	BN	82	GLU	2.2
39	CF	13	GLU	2.2
45	CL	134	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
29	BV	107	HIS	2.2
4	AW	195	SER	2.2
7	AZ	96	SER	2.2
48	D	119	SER	2.2
55	K	45	SER	2.2
55	K	66	SER	2.2
55	CV	12	SER	2.2
70	DL	104	SER	2.2
1	1	1223	C	2.2
1	1	1559	C	2.2
10	p	205	ASN	2.2
10	BC	28	PHE	2.2
11	BD	177	ASP	2.2
16	BI	122	ASN	2.2
26	8	104	ASP	2.2
26	BS	32	PHE	2.2
36	CC	50	ASN	2.2
38	AK	48	ASN	2.2
39	CF	77	ASN	2.2
53	I	156	PHE	2.2
63	DE	65	PRO	2.2
64	DF	87	ASN	2.2
78	AR	104	PHE	2.2
13	s	10	ARG	2.2
18	x	167	ARG	2.2
25	BR	43	ARG	2.2
27	BT	27	ARG	2.2
48	D	26	ARG	2.2
1	1	794	G	2.2
1	1	863	G	2.2
1	1	949	G	2.2
1	AS	2313	G	2.2
1	AS	2425	G	2.2
5	AX	248	LYS	2.2
6	AY	201	THR	2.2
9	BB	15	LYS	2.2
10	p	246	LYS	2.2
10	BC	121	LYS	2.2
17	BJ	68	LYS	2.2
19	BL	6	THR	2.2
20	z	108	LYS	2.2
21	BN	98	THR	2.2

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Mol	Chain	Res	Type	RSRZ
28	BU	121	LYS	2.2
45	i	54	LYS	2.2
45	CL	86	LYS	2.2
46	B	234	G	2.2
46	B	649	G	2.2
46	B	1373	G	2.2
46	CM	282	G	2.2
54	CU	80	LYS	2.2
55	CV	123	LYS	2.2
56	L	179	LYS	2.2
58	N	43	LYS	2.2
62	S	8	THR	2.2
62	S	126	LYS	2.2
65	DG	110	LYS	2.2
78	DT	254	THR	2.2
81	12	115	LYS	2.2
12	BE	216	TYR	2.2
15	BH	35	GLN	2.2
16	BI	148	TYR	2.2
20	BM	7	GLN	2.2
48	D	146	GLN	2.2
50	CQ	180	GLN	2.2
61	R	111	MET	2.2
65	V	12	GLN	2.2
78	AR	198	CYS	2.2
82	11	164	CYS	2.2
6	AY	31	VAL	2.2
6	AY	36	VAL	2.2
6	AY	217	VAL	2.2
7	m	286	VAL	2.2
23	5	66	VAL	2.2
29	BV	121	VAL	2.2
56	CW	148	VAL	2.2
57	M	20	VAL	2.2
70	DL	12	VAL	2.2
78	DT	185	VAL	2.2
10	p	151	LEU	2.2
10	BC	151	LEU	2.2
52	CS	20	LEU	2.2
55	K	149	LEU	2.2
1	1	1890	U	2.2
1	1	2068	U	2.2

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Mol	Chain	Res	Type	RSRZ
1	AS	1249	U	2.2
1	AS	1797	U	2.2
1	AS	3317	U	2.2
3	4	127	U	2.2
30	BW	59	ALA	2.2
44	CK	35	ALA	2.2
46	B	511	U	2.2
46	B	1399	U	2.2
46	CM	214	U	2.2
51	G	116	ALA	2.2
56	L	125	ALA	2.2
29	BV	30	GLY	2.2
60	DB	39	GLY	2.2
58	CY	49	ILE	2.2
59	P	84	ILE	2.2
70	a	75	ILE	2.2
1	1	1575	A	2.2
1	1	1589	A	2.2
1	1	2478	A	2.2
1	AS	1554	A	2.2
1	AS	1575	A	2.2
1	AS	1891	A	2.2
3	AU	17	A	2.2
7	AZ	217	GLU	2.2
23	BP	24	GLU	2.2
46	B	1077	A	2.2
46	CM	832	A	2.2
49	E	203	GLU	2.2
55	CV	70	GLU	2.2
62	DD	49	GLU	2.2
82	ll	33	GLU	2.2
47	CN	168	HIS	2.2
78	DT	238	HIS	2.2
4	j	186	PHE	2.2
5	k	327	SER	2.2
7	m	14	SER	2.2
19	BL	53	PHE	2.2
20	z	64	ARG	2.2
20	BM	100	ARG	2.2
28	AA	71	PHE	2.2
36	CC	69	PHE	2.2
59	P	147	SER	2.2

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Mol	Chain	Res	Type	RSRZ
61	R	127	ARG	2.2
66	DH	75	SER	2.2
73	d	60	SER	2.2
82	L1	208	SER	2.2
6	AY	362	LYS	2.2
7	m	218	LYS	2.2
40	CG	2	PRO	2.2
53	CT	167	LYS	2.2
68	Y	77	PRO	2.2
19	y	45	ASN	2.2
22	2	45	ASN	2.2
64	U	21	ASN	2.2
64	U	44	ASN	2.2
70	a	52	LYS	2.2
75	DQ	13	ASN	2.2
5	AX	140	ASP	2.2
6	l	260	ASP	2.2
16	BI	145	ASP	2.2
55	K	105	ASP	2.2
78	DT	77	ASP	2.2
7	AZ	208	MET	2.2
28	BU	57	MET	2.2
36	AI	6	THR	2.2
37	CD	78	THR	2.2
57	M	90	THR	2.2
64	DF	77	THR	2.2
1	AS	934	C	2.2
1	AS	3131	C	2.2
7	AZ	159	VAL	2.2
13	s	112	LEU	2.2
14	BG	65	TYR	2.2
16	BI	129	TYR	2.2
20	BM	164	VAL	2.2
23	5	99	VAL	2.2
29	AB	78	LEU	2.2
36	CC	99	GLN	2.2
39	CF	65	LEU	2.2
46	B	187	C	2.2
46	B	1291	C	2.2
50	CQ	224	VAL	2.2
56	CW	177	GLN	2.2
57	M	73	VAL	2.2

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Mol	Chain	Res	Type	RSRZ
58	CY	35	TYR	2.2
65	V	79	LEU	2.2
66	W	25	LEU	2.2
73	DO	24	LEU	2.2
78	AR	195	TYR	2.2
78	AR	271	LEU	2.2
82	L1	148	VAL	2.2
82	l1	163	LEU	2.2
10	p	155	ALA	2.2
13	BF	33	ALA	2.2
41	CH	31	ALA	2.2
61	R	39	ALA	2.2
77	DS	170	ALA	2.2
48	CO	102	GLY	2.2
51	G	193	GLY	2.2
1	1	169	G	2.2
1	1	1345	G	2.2
1	1	2723	G	2.2
1	AS	182	G	2.2
1	AS	1229	G	2.2
1	AS	1281	G	2.2
1	AS	2515	G	2.2
1	AS	2843	G	2.2
1	AS	2894	G	2.2
4	AW	5	ILE	2.2
10	BC	247	ILE	2.2
13	BF	65	ILE	2.2
13	BF	106	ILE	2.2
15	BH	32	ILE	2.2
25	BR	63	ILE	2.2
39	CF	24	ILE	2.2
46	B	650	G	2.2
46	B	1104	G	2.2
46	B	1353	G	2.2
66	W	21	ILE	2.2
80	P0	87	ILE	2.2
1	AS	146	U	2.2
1	AS	1550	U	2.2
1	AS	3165	U	2.2
46	CM	727	U	2.2
7	m	273	ARG	2.2
7	AZ	117	GLU	2.2

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Mol	Chain	Res	Type	RSRZ
13	s	140	ARG	2.2
14	BG	67	ARG	2.2
22	2	86	GLU	2.2
33	AF	44	ARG	2.2
48	CO	26	ARG	2.2
51	CR	69	HIS	2.2
53	I	35	GLU	2.2
53	I	81	HIS	2.2
61	DC	72	ARG	2.2
4	j	155	LYS	2.2
4	j	188	LYS	2.2
6	l	194	LYS	2.2
8	n	175	LYS	2.2
23	5	84	LYS	2.2
31	BX	34	LYS	2.2
49	E	59	LYS	2.2
53	CT	95	LYS	2.2
54	CU	101	LYS	2.2
56	L	39	LYS	2.2
56	L	173	LYS	2.2
62	S	59	PHE	2.2
69	Z	38	PHE	2.2
75	f	43	PHE	2.2
76	DR	23	LYS	2.2
77	DS	149	LYS	2.2
51	G	5	PRO	2.2
56	CW	15	PRO	2.2
75	DQ	7	TRP	2.2
1	1	506	A	2.2
1	AS	976	A	2.2
1	AS	1274	A	2.2
1	AS	1809	A	2.2
1	AS	3233	A	2.2
2	AT	51	A	2.2
17	BJ	185	SER	2.2
18	BK	144	SER	2.2
25	BR	26	SER	2.2
46	CM	1410	A	2.2
54	CU	62	SER	2.2
55	CV	7	SER	2.2
63	T	70	SER	2.2
75	DQ	25	SER	2.2

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Mol	Chain	Res	Type	RSRZ
78	DT	66	SER	2.2
7	m	57	ASN	2.2
10	p	244	ASN	2.2
23	5	49	ASN	2.2
64	U	29	MET	2.2
66	W	83	MET	2.2
74	e	43	ASN	2.2
82	L1	27	ASN	2.2
4	j	168	VAL	2.2
6	AY	208	VAL	2.2
7	AZ	51	LEU	2.2
10	p	198	VAL	2.2
19	BL	22	ASP	2.2
23	5	68	VAL	2.2
23	BP	67	VAL	2.2
32	BY	110	ASP	2.2
47	C	58	VAL	2.2
47	CN	143	VAL	2.2
50	F	6	LEU	2.2
50	F	30	LEU	2.2
51	G	104	ASP	2.2
52	CS	93	LEU	2.2
52	CS	145	ASP	2.2
54	J	77	LEU	2.2
54	CU	37	LEU	2.2
55	K	72	VAL	2.2
55	K	163	ASP	2.2
55	CV	136	VAL	2.2
61	DC	80	LEU	2.2
70	a	74	LEU	2.2
73	DO	44	THR	2.2
14	BG	132	ALA	2.1
16	BI	167	ALA	2.1
32	AE	39	ALA	2.1
43	AP	53	GLN	2.2
45	CL	105	GLN	2.2
48	D	155	TYR	2.2
51	G	54	TYR	2.2
55	K	117	TYR	2.2
71	b	98	GLN	2.2
76	DR	40	TYR	2.2
78	AR	209	ALA	2.1

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Mol	Chain	Res	Type	RSRZ
78	DT	4	GLN	2.2
79	O	58	GLN	2.2
80	p0	37	GLN	2.2
82	L1	217	TYR	2.2
47	C	14	ALA	2.1
51	G	13	ALA	2.1
81	12	136	ALA	2.1
7	AZ	114	GLY	2.1
13	s	132	GLY	2.1
19	BL	177	GLY	2.1
23	5	48	GLY	2.1
29	BV	114	GLY	2.1
49	E	155	GLY	2.1
4	AW	225	ILE	2.1
8	BA	130	ILE	2.1
50	F	67	ILE	2.1
52	CS	87	CYS	2.1
55	K	158	ILE	2.1
63	DE	102	ILE	2.1
65	DG	36	ILE	2.1
67	X	24	ILE	2.1
67	X	51	ILE	2.1
68	Y	86	ILE	2.1
71	b	41	ILE	2.1
82	L1	117	ILE	2.1
1	AS	665	C	2.1
46	B	651	C	2.1
46	CM	280	C	2.1
4	j	147	ARG	2.1
18	x	126	ARG	2.1
24	BQ	32	ARG	2.1
37	CD	40	ARG	2.1
62	S	131	ARG	2.1
77	DS	138	ARG	2.1
7	AZ	253	PHE	2.1
28	AA	121	LYS	2.1
33	AF	19	LYS	2.1
33	BZ	126	LYS	2.1
39	CF	74	LYS	2.1
54	CU	134	LYS	2.1
49	E	54	HIS	2.1
55	CV	166	PHE	2.1

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Mol	Chain	Res	Type	RSRZ
59	P	70	LYS	2.1
72	DN	70	LYS	2.1
74	DP	14	LYS	2.1
77	DS	124	LYS	2.1
17	BJ	15	HIS	2.1
19	y	120	GLU	2.1
21	0	21	GLU	2.1
70	DL	101	GLU	2.1
78	DT	104	PHE	2.1
80	P0	21	GLU	2.1
1	AS	1018	U	2.1
2	AT	54	U	2.1
46	B	1088	U	2.1
1	1	245	G	2.1
1	1	1111	G	2.1
1	1	2435	G	2.1
1	AS	548	G	2.1
1	AS	1571	G	2.1
1	AS	2355	G	2.1
1	AS	2873	G	2.1
1	AS	2998	G	2.1
46	B	495	G	2.1
46	B	939	G	2.1
46	CM	996	G	2.1
47	C	199	PRO	2.1
51	CR	236	TRP	2.1
6	AY	23	LEU	2.1
10	BC	40	SER	2.1
16	BI	132	VAL	2.1
20	z	69	SER	2.1
24	BQ	136	VAL	2.1
32	BY	107	VAL	2.1
51	G	23	LEU	2.1
51	CR	208	VAL	2.1
55	CV	202	LEU	2.1
65	DG	140	LEU	2.1
67	DI	78	LEU	2.1
69	DK	47	SER	2.1
70	a	100	VAL	2.1
78	AR	288	SER	2.1
79	CZ	91	VAL	2.1
79	O	62	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
80	P0	100	VAL	2.1
82	L1	55	LEU	2.1
82	L1	123	LEU	2.1
6	AY	222	ASN	2.1
11	BD	139	THR	2.1
18	BK	64	ASN	2.1
30	AC	19	ASN	2.1
45	i	60	ASN	2.1
57	M	57	THR	2.1
61	R	30	THR	2.1
63	DE	106	THR	2.1
68	Y	39	THR	2.1
4	AW	142	ASP	2.1
10	BC	248	ALA	2.1
22	BO	13	TYR	2.1
31	BX	61	TYR	2.1
36	AI	97	ALA	2.1
1	1	2070	A	2.1
1	1	2434	A	2.1
14	BG	19	GLN	2.1
38	CE	30	GLN	2.1
43	CJ	47	GLN	2.1
45	CL	44	ALA	2.1
47	C	13	ASP	2.1
54	J	154	ASP	2.1
55	CV	6	ASP	2.1
56	CW	25	ASP	2.1
65	DG	70	GLN	2.1
72	DN	59	TYR	2.1
72	DN	60	ALA	2.1
75	f	55	TYR	2.1
78	DT	221	ASP	2.1
78	DT	252	ALA	2.1
80	p0	62	ALA	2.1
46	B	599	A	2.1
46	B	619	A	2.1
46	B	678	A	2.1
46	B	1694	A	2.1
46	CM	472	A	2.1
46	CM	1601	A	2.1
4	AW	201	GLY	2.1
17	BJ	70	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
22	BO	6	GLY	2.1
24	BQ	43	GLY	2.1
31	AD	106	ILE	2.1
40	CG	27	ILE	2.1
49	E	100	GLY	2.1
54	CU	174	GLY	2.1
56	CW	134	ILE	2.1
56	CW	137	GLY	2.1
59	DA	59	GLY	2.1
66	DH	23	ILE	2.1
78	DT	11	GLY	2.1
82	ll	170	GLY	2.1
27	BT	12	ARG	2.1
29	BV	128	ARG	2.1
39	CF	46	ARG	2.1
40	CG	46	ARG	2.1
53	CT	223	ARG	2.1
56	CW	171	ARG	2.1
58	N	67	ARG	2.1
71	b	81	ARG	2.1
77	DS	122	ARG	2.1
78	AR	103	ARG	2.1
4	AW	181	LYS	2.1
7	m	27	LYS	2.1
20	z	114	LYS	2.1
36	AI	5	LYS	2.1
36	CC	115	LYS	2.1
54	J	40	LYS	2.1
54	CU	104	LYS	2.1
55	K	24	LYS	2.1
59	P	64	LYS	2.1
66	DH	60	LYS	2.1
71	DM	97	LYS	2.1
82	ll	98	LYS	2.1
8	BA	163	PHE	2.1
56	CW	114	PHE	2.1
47	C	32	HIS	2.1
52	CS	72	HIS	2.1
53	I	69	HIS	2.1
57	M	6	GLU	2.1
65	DG	49	GLU	2.1
72	c	80	HIS	2.1

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Mol	Chain	Res	Type	RSRZ
1	1	451	C	2.1
1	1	1234	C	2.1
1	AS	1273	C	2.1
1	AS	2957	C	2.1
10	BC	177	PRO	2.1
12	BE	175	PRO	2.1
46	B	349	C	2.1
46	CM	135	C	2.1
46	CM	517	C	2.1
46	CM	651	C	2.1
46	CM	674	C	2.1
47	CN	68	PRO	2.1
29	BV	79	TRP	2.1
49	E	225	TRP	2.1
5	k	47	LEU	2.1
10	BC	163	LEU	2.1
13	s	19	LEU	2.1
49	E	56	LEU	2.1
72	DN	64	LEU	2.1
82	L1	124	LEU	2.1
52	CS	138	VAL	2.1
61	DC	101	VAL	2.1
73	DO	62	VAL	2.1
1	1	1346	U	2.1
46	B	229	U	2.1
46	B	239	U	2.1
46	B	638	U	2.1
46	CM	318	U	2.1
46	CM	778	U	2.1
65	DG	97	SER	2.1
73	DO	48	SER	2.1
79	CZ	92	SER	2.1
80	P0	24	SER	2.1
82	L1	20	SER	2.1
4	j	26	ALA	2.1
7	AZ	62	ALA	2.1
7	AZ	100	ALA	2.1
14	t	132	ALA	2.1
15	BH	49	ALA	2.1
16	BI	110	ALA	2.1
30	BW	9	ALA	2.1
61	R	104	THR	2.1

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Mol	Chain	Res	Type	RSRZ
11	BD	20	ILE	2.1
11	BD	180	TYR	2.1
12	r	9	TYR	2.1
16	BI	53	TYR	2.1
22	2	84	TYR	2.1
22	BO	82	ASN	2.1
22	BO	90	ASN	2.1
24	6	33	ASN	2.1
29	AB	66	ASN	2.1
31	AD	13	ASN	2.1
16	BI	174	ILE	2.1
33	BZ	14	TYR	2.1
1	1	2686	G	2.1
1	AS	243	G	2.1
1	AS	1336	G	2.1
1	AS	1388	G	2.1
1	AS	3002	G	2.1
12	BE	193	ASP	2.1
20	BM	73	GLY	2.1
24	6	20	GLY	2.1
34	CA	59	ILE	2.1
35	CB	77	GLY	2.1
40	AM	51	ILE	2.1
55	CV	117	TYR	2.1
46	CM	653	G	2.1
56	CW	151	ASP	2.1
58	N	41	GLY	2.1
60	Q	34	ILE	2.1
82	ll	145	TYR	2.1
45	i	72	ASP	2.1
62	S	97	ASP	2.1
66	W	110	GLY	2.1
78	DT	122	GLN	2.1
4	AW	24	LYS	2.1
7	AZ	196	ARG	2.1
12	r	156	ARG	2.1
12	BE	21	ARG	2.1
25	BR	12	LYS	2.1
29	BV	4	ARG	2.1
40	CG	21	ARG	2.1
46	B	700	G	2.1
42	CI	16	LYS	2.1

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Mol	Chain	Res	Type	RSRZ
47	C	27	LYS	2.1
51	CR	241	LYS	2.1
52	H	81	ARG	2.1
52	H	167	ARG	2.1
52	CS	148	ARG	2.1
55	K	23	LYS	2.1
56	L	108	ARG	2.1
58	N	141	LYS	2.1
64	DF	123	ARG	2.1
67	X	38	LYS	2.1
69	Z	144	ARG	2.1
71	b	97	LYS	2.1
77	DS	139	LYS	2.1
79	O	50	LYS	2.1
1	1	1299	A	2.1
1	AS	369	A	2.1
1	AS	803	A	2.1
1	AS	2310	A	2.1
1	AS	2419	A	2.1
1	AS	3001	A	2.1
9	BB	83	PHE	2.1
21	0	118	PHE	2.1
32	BY	24	PHE	2.1
46	B	186	A	2.1
46	B	956	A	2.1
47	CN	81	PHE	2.1
54	CU	21	PHE	2.1
55	CV	109	PHE	2.1
73	d	32	PHE	2.1
64	U	47	CYS	2.1
14	BG	150	GLU	2.1
16	BI	9	GLU	2.1
53	CT	217	HIS	2.1
56	L	88	GLU	2.1
47	CN	172	LEU	2.1
50	F	44	PRO	2.1
71	b	38	HIS	2.1
72	DN	72	HIS	2.1
7	AZ	211	LEU	2.1
17	BJ	195	LEU	2.1
20	z	123	LEU	2.1
44	CK	29	LEU	2.1

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Mol	Chain	Res	Type	RSRZ
51	CR	153	LEU	2.1
54	CU	139	LEU	2.1
56	CW	49	LEU	2.1
62	DD	51	LEU	2.1
6	AY	345	VAL	2.1
7	AZ	122	VAL	2.1
35	CB	23	VAL	2.1
38	CE	82	VAL	2.1
51	G	105	VAL	2.1
52	CS	111	VAL	2.1
63	DE	88	VAL	2.1
68	Y	89	TRP	2.1
78	DT	69	VAL	2.1
1	1	1194	C	2.1
1	1	1244	C	2.1
1	AS	174	C	2.1
1	AS	924	C	2.1
1	AS	1033	C	2.1
1	AS	1088	C	2.1
1	AS	1114	C	2.1
1	AS	1834	C	2.1
1	AS	2343	C	2.1
1	AS	3315	C	2.1
28	BU	2	ALA	2.1
37	CD	22	ALA	2.1
46	CM	25	C	2.1
46	CM	296	C	2.1
46	CM	680	C	2.1
51	G	55	ALA	2.1
6	AY	270	SER	2.1
6	AY	285	THR	2.1
7	AZ	153	THR	2.1
7	AZ	233	SER	2.1
16	BI	126	THR	2.1
17	BJ	10	ILE	2.1
35	AH	40	SER	2.1
38	AK	7	SER	2.1
48	CO	46	THR	2.1
48	CO	106	THR	2.1
51	CR	230	THR	2.1
54	J	45	ILE	2.1
55	K	7	SER	2.1

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Mol	Chain	Res	Type	RSRZ
55	CV	97	THR	2.1
67	X	46	ILE	2.1
73	d	61	THR	2.1
73	DO	65	THR	2.1
78	DT	61	SER	2.1
68	DJ	68	ARG	2.1
64	DF	136	GLN	2.1
65	DG	119	LYS	2.1
68	DJ	71	LYS	2.1
69	Z	20	ARG	2.1
70	a	112	LYS	2.1
72	DN	62	TYR	2.1
78	DT	68	ILE	2.1
78	DT	196	ILE	2.1
1	1	3297	U	2.1
1	AS	1490	U	2.1
7	AZ	108	ARG	2.1
10	p	121	LYS	2.1
14	BG	55	ARG	2.1
11	q	149	ASN	2.1
16	BI	95	GLN	2.1
25	7	97	LYS	2.1
27	BT	53	ASN	2.1
27	BT	91	ASN	2.1
29	BV	19	LYS	2.1
30	BW	25	LYS	2.1
33	AF	16	LYS	2.1
33	AF	78	LYS	2.1
36	CC	49	LYS	2.1
43	AP	61	LYS	2.1
46	B	696	U	2.1
46	CM	238	U	2.1
46	CM	765	U	2.1
46	CM	1102	U	2.1
46	CM	1725	U	2.1
50	F	180	GLN	2.1
53	I	164	LYS	2.1
56	L	174	ARG	2.1
57	CX	72	GLY	2.1
58	CY	62	GLY	2.1
77	h	149	LYS	2.1
80	p0	65	GLY	2.1

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Mol	Chain	Res	Type	RSRZ
56	L	74	ASN	2.1
74	e	27	GLN	2.1
10	BC	125	ASP	2.1
16	BI	136	ASP	2.1
45	CL	72	ASP	2.1
47	CN	200	ASP	2.1
51	CR	206	ASP	2.1
56	L	63	ASP	2.1
28	AA	136	PHE	2.1
48	D	100	PHE	2.1
60	Q	22	PHE	2.1
61	DC	33	PHE	2.1
1	1	1537	G	2.1
1	1	1915	G	2.1
1	AS	171	G	2.1
1	AS	1902	G	2.1
1	AS	3041	G	2.1
3	AU	70	G	2.1
6	AY	137	LEU	2.1
7	m	40	HIS	2.1
8	n	42	LEU	2.1
14	t	7	LEU	2.1
20	BM	89	MET	2.1
1	1	1198	A	2.1
1	1	2817	A	2.1
1	1	3327	A	2.1
1	AS	98	A	2.1
7	AZ	263	GLU	2.1
10	BC	191	VAL	2.1
13	s	69	VAL	2.1
19	y	78	GLU	2.1
33	AF	27	HIS	2.1
35	CB	69	HIS	2.1
23	BP	41	VAL	2.1
37	CD	87	GLU	2.1
41	AN	4	PRO	2.1
41	AN	6	LEU	2.1
46	B	421	G	2.1
46	B	750	G	2.1
46	CM	538	G	2.1
46	CM	1474	G	2.1
46	CM	1724	G	2.1

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Mol	Chain	Res	Type	RSRZ
50	CQ	111	LEU	2.1
51	G	131	LEU	2.1
51	CR	56	LEU	2.1
52	H	122	HIS	2.1
53	I	22	HIS	2.1
54	CU	15	LEU	2.1
55	K	199	LEU	2.1
56	CW	128	LEU	2.1
56	CW	163	PRO	2.1
59	P	4	MET	2.1
61	DC	56	LEU	2.1
61	DC	109	PRO	2.1
70	DL	16	PRO	2.1
78	DT	13	LEU	2.1
82	ll	34	LEU	2.1
41	CH	3	GLU	2.1
45	i	120	GLU	2.1
46	B	383	A	2.1
46	B	1202	A	2.1
46	CM	22	A	2.1
50	F	40	VAL	2.1
62	S	89	VAL	2.1
62	DD	98	GLU	2.1
65	V	71	VAL	2.1
78	DT	45	TRP	2.1
82	L1	178	VAL	2.1
30	AC	57	ALA	2.1
50	F	210	ALA	2.1
72	DN	35	ALA	2.1
72	DN	81	ALA	2.1
82	ll	168	ALA	2.1
7	AZ	288	LYS	2.1
11	q	75	ILE	2.1
13	s	114	ILE	2.1
13	BF	143	ARG	2.1
20	z	156	LYS	2.1
24	BQ	10	LYS	2.1
26	BS	45	LYS	2.1
32	AE	85	LYS	2.1
47	CN	84	ARG	2.1
49	E	171	LYS	2.1
53	CT	31	ARG	2.1

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Mol	Chain	Res	Type	RSRZ
53	CT	101	ILE	2.1
68	Y	34	ILE	2.1
69	Z	32	ARG	2.1
75	DQ	56	ARG	2.1
77	h	141	LYS	2.1
78	DT	218	ILE	2.1
80	P0	60	ARG	2.1
6	AY	133	THR	2.1
11	q	186	THR	2.1
14	BG	92	THR	2.1
19	y	160	GLY	2.1
5	AX	134	SER	2.1
19	BL	13	SER	2.1
24	BQ	7	SER	2.1
32	BY	11	TYR	2.1
65	V	80	TYR	2.1
74	e	19	THR	2.1
76	g	40	TYR	2.1
81	12	158	GLY	2.1
52	H	96	SER	2.1
56	CW	21	SER	2.1
81	12	138	SER	2.1
7	AZ	24	GLN	2.1
45	i	77	GLN	2.1
53	CT	210	GLN	2.1
68	DJ	24	GLN	2.1
70	DL	22	GLN	2.1
78	DT	311	GLN	2.1
6	AY	115	ASN	2.1
28	AA	78	ASN	2.1
38	CE	20	ASN	2.1
1	1	1862	C	2.1
1	1	2545	C	2.1
1	1	1010	U	2.1
1	1	1611	U	2.1
1	1	2964	U	2.1
6	AY	157	PHE	2.1
12	r	159	PHE	2.1
19	y	4	ASP	2.1
46	B	657	C	2.1
46	B	674	C	2.1
46	B	766	U	2.1

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Mol	Chain	Res	Type	RSRZ
46	CM	1236	U	2.1
65	DG	8	ASP	2.1
65	DG	35	ASP	2.1
70	DL	60	PHE	2.1
78	DT	204	ASP	2.1
79	CZ	140	PHE	2.1
4	AW	204	MET	2.1
16	BI	92	LEU	2.1
27	BT	109	LEU	2.1
51	CR	44	LEU	2.1
51	CR	239	LEU	2.1
59	P	28	LEU	2.1
71	b	69	LEU	2.1
4	AW	209	HIS	2.1
14	BG	83	VAL	2.1
33	BZ	89	HIS	2.1
49	E	96	VAL	2.1
53	CT	129	VAL	2.1
56	L	133	HIS	2.1
63	T	9	VAL	2.1
63	T	40	VAL	2.1
71	DM	92	VAL	2.1
78	AR	148	HIS	2.1
82	ll	137	PRO	2.1
82	ll	162	VAL	2.1
7	m	216	GLU	2.1
14	BG	194	GLU	2.1
43	CJ	17	CYS	2.1
60	Q	32	GLU	2.1
75	DQ	42	CYS	2.1
78	DT	285	GLU	2.1
6	l	4	ARG	2.0
6	l	310	LYS	2.0
7	m	179	ARG	2.0
9	o	16	ALA	2.0
10	BC	149	ALA	2.0
12	BE	13	LYS	2.0
13	s	34	ALA	2.0
13	BF	134	ALA	2.0
16	BI	128	LYS	2.0
16	BI	144	ARG	2.0
17	BJ	171	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
20	BM	153	LYS	2.0
27	BT	106	ILE	2.0
30	BW	16	ALA	2.0
36	CC	76	ILE	2.0
42	AO	25	LYS	2.0
45	CL	131	ALA	2.0
47	CN	48	ILE	2.0
48	D	116	LYS	2.0
49	CP	161	ALA	2.0
50	CQ	206	ALA	2.0
51	CR	7	LYS	2.0
52	CS	199	ILE	2.0
55	CV	128	ALA	2.0
57	CX	24	LYS	2.0
58	N	27	ALA	2.0
58	N	61	ALA	2.0
66	W	20	LYS	2.0
67	X	22	ARG	2.0
59	DA	38	ILE	2.0
60	Q	76	ILE	2.0
74	e	13	ILE	2.0
76	DR	28	LYS	2.0
77	h	131	LYS	2.0
77	DS	123	LYS	2.0
78	AR	261	LYS	2.0
78	DT	154	ALA	2.0
82	ll	65	ILE	2.0
82	ll	155	ILE	2.0
1	1	1160	A	2.0
1	AS	1160	A	2.0
1	AS	2535	A	2.0
1	1	1930	G	2.0
1	1	2611	G	2.0
1	AS	1112	G	2.0
4	j	153	GLY	2.0
29	BV	110	GLY	2.0
38	AK	38	GLY	2.0
43	AP	101	GLY	2.0
46	B	1616	G	2.0
46	CM	1666	G	2.0
52	H	150	GLY	2.0
62	S	26	GLY	2.0

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Mol	Chain	Res	Type	RSRZ
64	DF	130	GLY	2.0
5	k	361	THR	2.0
6	l	61	THR	2.0
49	E	193	THR	2.0
55	K	97	THR	2.0
61	DC	11	THR	2.0
65	V	139	THR	2.0
67	DI	53	TYR	2.0
78	AR	302	TYR	2.0
78	DT	89	THR	2.0
82	ll	5	THR	2.0
6	AY	134	SER	2.0
10	p	90	GLN	2.0
12	r	163	GLN	2.0
18	BK	109	SER	2.0
19	y	7	SER	2.0
30	BW	12	GLN	2.0
31	BX	93	SER	2.0
35	AH	49	SER	2.0
39	CF	60	SER	2.0
44	CK	20	SER	2.0
64	DF	10	SER	2.0
78	AR	102	GLN	2.0
79	CZ	105	GLN	2.0
10	BC	92	PHE	2.0
14	BG	138	PHE	2.0
19	y	96	PHE	2.0
23	5	98	PHE	2.0
56	L	158	PHE	2.0
62	S	108	PHE	2.0
17	BJ	180	ASN	2.0
65	V	16	ASN	2.0
77	DS	155	ASN	2.0
78	AR	305	ASN	2.0
15	u	34	ASP	2.0
26	BS	106	ASP	2.0
37	CD	59	LEU	2.0
47	C	201	LEU	2.0
57	CX	26	ASP	2.0
63	T	82	ASP	2.0
68	DJ	126	LEU	2.0
70	a	44	LEU	2.0

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Mol	Chain	Res	Type	RSRZ
72	DN	67	LEU	2.0
78	AR	283	ASP	2.0
79	CZ	59	LEU	2.0
82	L1	38	LEU	2.0
61	R	83	MET	2.0
11	BD	93	VAL	2.0
37	CD	43	VAL	2.0
1	1	1546	C	2.0
1	1	2475	U	2.0
1	AS	134	U	2.0
1	AS	448	U	2.0
1	AS	1067	U	2.0
1	AS	1133	C	2.0
40	AM	2	PRO	2.0
46	B	225	U	2.0
46	B	541	C	2.0
46	B	672	U	2.0
46	B	1346	U	2.0
46	CM	75	U	2.0
47	C	22	VAL	2.0
50	CQ	92	VAL	2.0
51	CR	111	VAL	2.0
52	H	56	VAL	2.0
61	DC	7	PRO	2.0
62	S	40	PRO	2.0
63	DE	118	PRO	2.0
65	V	113	VAL	2.0
70	DL	55	VAL	2.0
75	DQ	11	PRO	2.0
78	AR	175	VAL	2.0
79	CZ	87	PRO	2.0
82	L1	126	PRO	2.0
82	l1	74	VAL	2.0
82	l1	115	VAL	2.0
46	CM	1621	C	2.0
49	CP	54	HIS	2.0
82	L1	14	HIS	2.0
6	AY	15	GLU	2.0
10	p	209	GLU	2.0
12	BE	32	ARG	2.0
22	2	21	LYS	2.0
27	9	87	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
28	AA	22	LYS	2.0
28	BU	129	TRP	2.0
29	BV	111	LYS	2.0
45	i	86	LYS	2.0
47	CN	27	LYS	2.0
50	F	118	ARG	2.0
51	G	148	ARG	2.0
52	H	80	LYS	2.0
54	CU	147	LYS	2.0
55	K	143	ARG	2.0
55	CV	67	TRP	2.0
55	CV	148	LYS	2.0
56	L	53	ARG	2.0
59	P	20	ARG	2.0
59	DA	35	GLU	2.0
60	Q	128	ARG	2.0
68	DJ	124	LYS	2.0
70	a	43	LYS	2.0
70	a	123	ARG	2.0
78	AR	156	ARG	2.0
6	AY	25	ALA	2.0
8	n	31	ALA	2.0
14	BG	78	ALA	2.0
19	y	103	ALA	2.0
45	i	44	ALA	2.0
49	E	132	ILE	2.0
52	H	195	ALA	2.0
56	L	26	ALA	2.0
56	CW	83	ILE	2.0
56	CW	143	ILE	2.0
60	Q	35	ALA	2.0
60	DB	55	ALA	2.0
61	R	37	CYS	2.0
66	W	85	ILE	2.0
78	DT	74	ILE	2.0
6	AY	246	GLY	2.0
30	BW	34	GLY	2.0
49	CP	197	GLY	2.0
6	l	68	THR	2.0
6	l	263	TYR	2.0
7	AZ	76	THR	2.0
10	p	82	THR	2.0

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Mol	Chain	Res	Type	RSRZ
20	z	109	TYR	2.0
23	5	81	TYR	2.0
33	BZ	64	THR	2.0
33	BZ	90	THR	2.0
44	AQ	26	THR	2.0
56	CW	43	TYR	2.0
63	T	84	TYR	2.0
68	Y	20	THR	2.0
6	AY	145	GLN	2.0
18	BK	76	PHE	2.0
47	CN	131	GLN	2.0
51	G	99	PHE	2.0
69	Z	122	PHE	2.0
69	DK	38	PHE	2.0
1	1	2518	A	2.0
1	AS	1221	A	2.0
1	AS	2434	A	2.0
4	AW	246	LEU	2.0
6	l	361	LEU	2.0
7	m	115	LEU	2.0
13	BF	93	SER	2.0
16	BI	100	SER	2.0
18	BK	22	LEU	2.0
19	y	63	SER	2.0
25	BR	34	SER	2.0
27	BT	57	LEU	2.0
45	CL	35	SER	2.0
46	B	112	A	2.0
46	B	704	A	2.0
46	B	1066	A	2.0
46	CM	143	A	2.0
46	CM	368	A	2.0
46	CM	1411	A	2.0
37	CD	76	LEU	2.0
47	C	172	LEU	2.0
53	CT	24	LEU	2.0
70	DL	18	LEU	2.0
78	DT	35	SER	2.0
79	CZ	106	LEU	2.0
5	AX	121	ASN	2.0
7	AZ	57	ASN	2.0
18	BK	169	ASN	2.0

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Mol	Chain	Res	Type	RSRZ
64	DF	29	MET	2.0
1	1	251	G	2.0
1	1	3143	G	2.0
1	AS	831	G	2.0
1	AS	1245	G	2.0
1	AS	1510	G	2.0
1	AS	1874	G	2.0
1	AS	2432	G	2.0
4	AW	208	ASP	2.0
14	BG	63	VAL	2.0
16	BI	60	VAL	2.0
22	BO	126	VAL	2.0
46	B	1107	G	2.0
46	CM	760	G	2.0
56	CW	136	VAL	2.0
65	DG	4	VAL	2.0
72	DN	86	VAL	2.0
14	BG	152	PRO	2.0
19	BL	132	PRO	2.0
45	i	48	PRO	2.0
47	CN	4	PRO	2.0
52	CS	67	PRO	2.0
56	L	144	PRO	2.0
4	AW	10	LYS	2.0
4	AW	200	ARG	2.0
6	AY	48	ARG	2.0
6	AY	177	LYS	2.0
7	m	220	LYS	2.0
7	m	262	LYS	2.0
9	BB	96	LYS	2.0
10	BC	124	LYS	2.0
14	t	190	LYS	2.0
18	x	121	HIS	2.0
20	BM	167	ARG	2.0
21	BN	161	LYS	2.0
28	BU	3	LYS	2.0
29	BV	49	HIS	2.0
37	CD	29	LYS	2.0
38	AK	3	LYS	2.0
55	K	152	ARG	2.0
59	DA	121	ARG	2.0
60	Q	124	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
65	DG	24	ARG	2.0
70	a	90	ARG	2.0
78	AR	10	ARG	2.0
80	p0	39	HIS	2.0
17	BJ	159	GLU	2.0
1	1	222	U	2.0
1	1	1626	U	2.0
1	AS	2162	U	2.0
1	AS	2544	U	2.0
19	y	128	ALA	2.0
19	BL	77	ALA	2.0
28	BU	44	ALA	2.0
34	CA	83	ALA	2.0
47	CN	209	GLU	2.0
49	E	49	GLU	2.0
50	CQ	67	ILE	2.0
51	G	213	ALA	2.0
52	H	142	ALA	2.0
52	H	144	GLU	2.0
63	T	101	GLU	2.0
64	DF	7	GLU	2.0
66	DH	78	TRP	2.0
46	B	275	U	2.0
46	CM	1217	U	2.0
82	L1	71	ALA	2.0
1	1	2610	C	2.0
29	BV	143	GLY	2.0
46	CM	409	C	2.0
49	CP	140	GLY	2.0
51	G	190	GLY	2.0
51	CR	107	GLY	2.0
60	DB	93	GLY	2.0
79	CZ	98	GLY	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, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3628	1/1	0.01	0.28	175,175,175,175	0
84	MG	1	3801	1/1	0.20	0.35	118,118,118,118	0
84	MG	B	1928	1/1	0.25	0.30	131,131,131,131	0
84	MG	AS	3649	1/1	0.46	0.26	83,83,83,83	0
84	MG	J	201	1/1	0.50	0.17	145,145,145,145	0
84	MG	AT	210	1/1	0.50	0.45	71,71,71,71	0
84	MG	B	1943	1/1	0.51	0.35	87,87,87,87	0
84	MG	1	3938	1/1	0.51	0.34	69,69,69,69	0
84	MG	AE	202	1/1	0.52	0.14	84,84,84,84	0
84	MG	AS	3590	1/1	0.53	0.40	96,96,96,96	0
84	MG	AS	3597	1/1	0.54	0.21	78,78,78,78	0
84	MG	B	1939	1/1	0.55	0.25	118,118,118,118	0
84	MG	2	201	1/1	0.56	0.39	95,95,95,95	0
84	MG	k	404	1/1	0.56	0.34	76,76,76,76	0
84	MG	AS	3586	1/1	0.57	0.36	77,77,77,77	0
84	MG	I	301	1/1	0.58	0.31	112,112,112,112	0
84	MG	B	1824	1/1	0.60	0.33	67,67,67,67	0
84	MG	AS	3662	1/1	0.61	0.30	88,88,88,88	0
84	MG	1	3593	1/1	0.61	0.35	94,94,94,94	0
85	ZN	DO	101	1/1	0.61	0.14	229,229,229,229	0
84	MG	CM	1813	1/1	0.62	0.37	57,57,57,57	0
84	MG	AS	3747	1/1	0.62	0.10	58,58,58,58	0
84	MG	1	3726	1/1	0.63	0.28	61,61,61,61	0
84	MG	AS	3628	1/1	0.63	0.19	49,49,49,49	0
84	MG	B	1836	1/1	0.63	0.21	287,287,287,287	0
84	MG	1	3808	1/1	0.63	0.32	102,102,102,102	0
84	MG	1	3874	1/1	0.64	0.29	57,57,57,57	0
84	MG	1	3513	1/1	0.65	0.34	44,44,44,44	0
84	MG	B	1946	1/1	0.66	0.32	78,78,78,78	0
84	MG	AS	3636	1/1	0.66	0.28	67,67,67,67	0
84	MG	B	1923	1/1	0.66	0.13	70,70,70,70	0
84	MG	CM	1871	1/1	0.66	0.32	89,89,89,89	0
84	MG	1	3921	1/1	0.66	0.22	80,80,80,80	0
84	MG	CM	1808	1/1	0.67	0.34	99,99,99,99	0
84	MG	AS	3634	1/1	0.67	0.36	69,69,69,69	0
84	MG	1	3826	1/1	0.67	0.17	43,43,43,43	0
85	ZN	CJ	201	1/1	0.67	0.19	255,255,255,255	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	B	1949	1/1	0.67	0.23	79,79,79,79	0
84	MG	1	3788	1/1	0.68	0.30	54,54,54,54	0
84	MG	1	3909	1/1	0.68	0.17	50,50,50,50	0
84	MG	1	3920	1/1	0.68	0.14	45,45,45,45	0
84	MG	CM	1879	1/1	0.68	0.26	63,63,63,63	0
84	MG	CM	1885	1/1	0.68	0.31	84,84,84,84	0
84	MG	w	303	1/1	0.68	0.28	86,86,86,86	0
84	MG	AS	3458	1/1	0.68	0.42	64,64,64,64	0
84	MG	1	3927	1/1	0.69	0.28	76,76,76,76	0
84	MG	3	202	1/1	0.69	0.27	83,83,83,83	0
84	MG	AS	3728	1/1	0.69	0.22	46,46,46,46	0
84	MG	B	1898	1/1	0.69	0.33	74,74,74,74	0
84	MG	1	3847	1/1	0.70	0.26	59,59,59,59	0
84	MG	BF	201	1/1	0.70	0.31	70,70,70,70	0
84	MG	1	3800	1/1	0.70	0.31	65,65,65,65	0
84	MG	B	1945	1/1	0.71	0.12	74,74,74,74	0
84	MG	AS	3661	1/1	0.71	0.47	75,75,75,75	0
84	MG	1	3584	1/1	0.71	0.28	52,52,52,52	0
84	MG	3	214	1/1	0.71	0.32	74,74,74,74	0
84	MG	B	1936	1/1	0.71	0.30	74,74,74,74	0
84	MG	1	3755	1/1	0.71	0.26	70,70,70,70	0
84	MG	B	1913	1/1	0.71	0.21	71,71,71,71	0
84	MG	AS	3501	1/1	0.72	0.45	64,64,64,64	0
84	MG	1	3754	1/1	0.72	0.31	76,76,76,76	0
84	MG	AS	3815	1/1	0.72	0.17	49,49,49,49	0
84	MG	1	4032	1/1	0.72	0.12	46,46,46,46	0
84	MG	B	1855	1/1	0.72	0.36	58,58,58,58	0
84	MG	B	1816	1/1	0.72	0.17	64,64,64,64	0
84	MG	AD	201	1/1	0.73	0.43	71,71,71,71	0
84	MG	BN	201	1/1	0.73	0.10	61,61,61,61	0
84	MG	1	3676	1/1	0.73	0.24	57,57,57,57	0
84	MG	y	202	1/1	0.73	0.14	63,63,63,63	0
84	MG	B	1907	1/1	0.73	0.11	47,47,47,47	0
84	MG	B	1941	1/1	0.73	0.27	94,94,94,94	0
84	MG	1	3728	1/1	0.73	0.31	49,49,49,49	0
84	MG	CM	1968	1/1	0.73	0.11	48,48,48,48	0
84	MG	AS	3820	1/1	0.73	0.20	50,50,50,50	0
84	MG	AS	3494	1/1	0.73	0.33	50,50,50,50	0
84	MG	B	1861	1/1	0.74	0.26	76,76,76,76	0
84	MG	AS	3506	1/1	0.74	0.23	49,49,49,49	0
84	MG	1	3758	1/1	0.74	0.44	60,60,60,60	0
84	MG	B	1903	1/1	0.74	0.24	89,89,89,89	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3779	1/1	0.74	0.23	44,44,44,44	0
84	MG	1	3609	1/1	0.74	0.13	48,48,48,48	0
84	MG	B	1915	1/1	0.74	0.27	62,62,62,62	0
84	MG	1	3686	1/1	0.74	0.20	57,57,57,57	0
84	MG	CM	1837	1/1	0.74	0.39	53,53,53,53	0
84	MG	B	1924	1/1	0.74	0.19	50,50,50,50	0
84	MG	R	201	1/1	0.74	0.27	78,78,78,78	0
84	MG	1	4020	1/1	0.74	0.16	57,57,57,57	0
84	MG	AS	3666	1/1	0.74	0.23	47,47,47,47	0
84	MG	AS	3715	1/1	0.74	0.14	49,49,49,49	0
84	MG	1	3757	1/1	0.74	0.36	69,69,69,69	0
84	MG	B	1803	1/1	0.75	0.41	56,56,56,56	0
84	MG	CM	1855	1/1	0.75	0.34	65,65,65,65	0
84	MG	1	3563	1/1	0.75	0.22	70,70,70,70	0
84	MG	B	1947	1/1	0.75	0.28	83,83,83,83	0
84	MG	AS	3534	1/1	0.75	0.24	67,67,67,67	0
84	MG	BZ	203	1/1	0.75	0.25	86,86,86,86	0
84	MG	CM	1978	1/1	0.75	0.10	42,42,42,42	0
84	MG	DB	202	1/1	0.75	0.33	83,83,83,83	0
84	MG	AS	3455	1/1	0.75	0.28	64,64,64,64	0
84	MG	1	3558	1/1	0.75	0.30	61,61,61,61	0
84	MG	1	3694	1/1	0.76	0.32	29,29,29,29	0
84	MG	B	1815	1/1	0.76	0.32	68,68,68,68	0
84	MG	1	3906	1/1	0.76	0.28	65,65,65,65	0
84	MG	1	3997	1/1	0.76	0.17	58,58,58,58	0
84	MG	AS	3671	1/1	0.76	0.32	55,55,55,55	0
84	MG	CM	1828	1/1	0.76	0.54	43,43,43,43	0
84	MG	CM	1836	1/1	0.76	0.31	59,59,59,59	0
84	MG	1	3720	1/1	0.76	0.29	97,97,97,97	0
84	MG	B	1839	1/1	0.76	0.33	68,68,68,68	0
84	MG	1	4029	1/1	0.76	0.16	46,46,46,46	0
84	MG	CM	1875	1/1	0.76	0.27	63,63,63,63	0
84	MG	CM	1876	1/1	0.76	0.23	63,63,63,63	0
84	MG	AS	3749	1/1	0.76	0.20	57,57,57,57	0
84	MG	B	1860	1/1	0.76	0.25	67,67,67,67	0
84	MG	1	3722	1/1	0.76	0.11	28,28,28,28	0
84	MG	AS	3829	1/1	0.76	0.20	43,43,43,43	0
84	MG	AT	208	1/1	0.76	0.25	57,57,57,57	0
84	MG	1	3670	1/1	0.76	0.14	57,57,57,57	0
84	MG	AU	205	1/1	0.76	0.23	44,44,44,44	0
84	MG	AS	3785	1/1	0.77	0.12	43,43,43,43	0
84	MG	AS	3479	1/1	0.77	0.32	68,68,68,68	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3491	1/1	0.77	0.25	50,50,50,50	0
84	MG	1	3829	1/1	0.77	0.21	51,51,51,51	0
84	MG	1	3633	1/1	0.77	0.29	48,48,48,48	0
84	MG	1	3751	1/1	0.77	0.18	61,61,61,61	0
84	MG	AS	3533	1/1	0.77	0.40	60,60,60,60	0
84	MG	B	1901	1/1	0.77	0.38	77,77,77,77	0
84	MG	B	1831	1/1	0.77	0.34	65,65,65,65	0
84	MG	1	3663	1/1	0.77	0.40	53,53,53,53	0
84	MG	AS	3733	1/1	0.77	0.16	53,53,53,53	0
84	MG	1	3422	1/1	0.77	0.34	46,46,46,46	0
84	MG	1	4010	1/1	0.77	0.14	41,41,41,41	0
84	MG	CM	1810	1/1	0.78	0.23	39,39,39,39	0
84	MG	B	1940	1/1	0.78	0.20	78,78,78,78	0
84	MG	1	3597	1/1	0.78	0.30	68,68,68,68	0
84	MG	1	3469	1/1	0.78	0.36	45,45,45,45	0
84	MG	1	4013	1/1	0.78	0.09	41,41,41,41	0
84	MG	AS	3816	1/1	0.78	0.30	48,48,48,48	0
84	MG	1	3843	1/1	0.78	0.24	53,53,53,53	0
84	MG	1	3660	1/1	0.78	0.33	35,35,35,35	0
84	MG	AT	207	1/1	0.78	0.33	59,59,59,59	0
84	MG	1	3925	1/1	0.78	0.11	49,49,49,49	0
84	MG	B	1978	1/1	0.78	0.25	51,51,51,51	0
84	MG	CM	1906	1/1	0.78	0.17	46,46,46,46	0
84	MG	CM	1919	1/1	0.78	0.26	49,49,49,49	0
84	MG	CM	1963	1/1	0.78	0.23	45,45,45,45	0
84	MG	1	3860	1/1	0.78	0.23	65,65,65,65	0
84	MG	AS	3706	1/1	0.78	0.18	46,46,46,46	0
84	MG	AS	3535	1/1	0.78	0.28	66,66,66,66	0
84	MG	3	208	1/1	0.78	0.26	70,70,70,70	0
84	MG	1	3786	1/1	0.78	0.18	69,69,69,69	0
84	MG	CL	302	1/1	0.79	0.45	72,72,72,72	0
84	MG	B	1938	1/1	0.79	0.25	47,47,47,47	0
84	MG	1	3498	1/1	0.79	0.32	39,39,39,39	0
84	MG	1	3512	1/1	0.79	0.34	58,58,58,58	0
84	MG	CM	1821	1/1	0.79	0.18	42,42,42,42	0
84	MG	B	1875	1/1	0.79	0.40	63,63,63,63	0
84	MG	B	1886	1/1	0.79	0.27	95,95,95,95	0
84	MG	B	1891	1/1	0.79	0.29	62,62,62,62	0
84	MG	B	1893	1/1	0.79	0.37	57,57,57,57	0
84	MG	AS	3589	1/1	0.79	0.19	51,51,51,51	0
84	MG	1	3680	1/1	0.79	0.14	40,40,40,40	0
84	MG	1	3892	1/1	0.79	0.23	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3942	1/1	0.79	0.17	47,47,47,47	0
84	MG	AT	206	1/1	0.79	0.36	42,42,42,42	0
84	MG	1	3982	1/1	0.79	0.19	43,43,43,43	0
84	MG	CM	1918	1/1	0.79	0.15	46,46,46,46	0
84	MG	3	215	1/1	0.79	0.23	65,65,65,65	0
84	MG	CM	1954	1/1	0.79	0.15	41,41,41,41	0
84	MG	4	201	1/1	0.79	0.31	54,54,54,54	0
84	MG	1	3586	1/1	0.79	0.43	60,60,60,60	0
84	MG	1	3688	1/1	0.79	0.25	57,57,57,57	0
84	MG	B	1849	1/1	0.79	0.15	56,56,56,56	0
84	MG	BZ	202	1/1	0.79	0.27	68,68,68,68	0
84	MG	1	3618	1/1	0.79	0.26	72,72,72,72	0
84	MG	1	3496	1/1	0.80	0.18	31,31,31,31	0
84	MG	AS	3827	1/1	0.80	0.11	44,44,44,44	0
84	MG	CM	1851	1/1	0.80	0.29	78,78,78,78	0
84	MG	AS	3503	1/1	0.80	0.40	53,53,53,53	0
84	MG	CM	1858	1/1	0.80	0.27	51,51,51,51	0
84	MG	CM	1861	1/1	0.80	0.18	51,51,51,51	0
84	MG	1	3404	1/1	0.80	0.38	38,38,38,38	0
84	MG	B	1873	1/1	0.80	0.30	62,62,62,62	0
84	MG	1	3517	1/1	0.80	0.35	60,60,60,60	0
84	MG	CM	1878	1/1	0.80	0.27	47,47,47,47	0
84	MG	a	201	1/1	0.80	0.29	86,86,86,86	0
84	MG	AS	3697	1/1	0.80	0.16	42,42,42,42	0
84	MG	CM	1889	1/1	0.80	0.36	47,47,47,47	0
84	MG	AS	3558	1/1	0.80	0.25	53,53,53,53	0
84	MG	CM	1916	1/1	0.80	0.25	48,48,48,48	0
84	MG	1	3696	1/1	0.80	0.16	200,200,200,200	0
84	MG	B	1887	1/1	0.80	0.27	76,76,76,76	0
84	MG	1	3735	1/1	0.80	0.24	53,53,53,53	0
84	MG	CM	1957	1/1	0.80	0.20	50,50,50,50	0
84	MG	AS	3742	1/1	0.80	0.24	42,42,42,42	0
84	MG	1	3876	1/1	0.80	0.16	46,46,46,46	0
84	MG	AS	3617	1/1	0.80	0.27	56,56,56,56	0
84	MG	AS	3622	1/1	0.80	0.41	68,68,68,68	0
84	MG	DJ	202	1/1	0.80	0.12	56,56,56,56	0
84	MG	1	3736	1/1	0.80	0.17	31,31,31,31	0
84	MG	AS	3499	1/1	0.80	0.25	59,59,59,59	0
84	MG	1	3583	1/1	0.81	0.13	56,56,56,56	0
84	MG	1	3963	1/1	0.81	0.22	48,48,48,48	0
84	MG	AS	3770	1/1	0.81	0.13	56,56,56,56	0
84	MG	1	4036	1/1	0.81	0.31	20,20,20,20	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3980	1/1	0.81	0.14	34,34,34,34	0
84	MG	1	3511	1/1	0.81	0.28	42,42,42,42	0
84	MG	CM	1866	1/1	0.81	0.22	73,73,73,73	0
84	MG	AS	3818	1/1	0.81	0.16	44,44,44,44	0
84	MG	B	1808	1/1	0.81	0.28	45,45,45,45	0
84	MG	3	211	1/1	0.81	0.39	58,58,58,58	0
84	MG	1	3923	1/1	0.81	0.13	56,56,56,56	0
84	MG	AS	3646	1/1	0.81	0.07	43,43,43,43	0
84	MG	1	3846	1/1	0.81	0.27	57,57,57,57	0
84	MG	AS	3658	1/1	0.81	0.25	59,59,59,59	0
84	MG	1	3444	1/1	0.81	0.39	57,57,57,57	0
84	MG	j	302	1/1	0.81	0.11	69,69,69,69	0
84	MG	B	1838	1/1	0.81	0.49	60,60,60,60	0
84	MG	1	3580	1/1	0.81	0.16	52,52,52,52	0
84	MG	BS	202	1/1	0.81	0.13	58,58,58,58	0
84	MG	B	1955	1/1	0.81	0.31	40,40,40,40	0
84	MG	B	1977	1/1	0.81	0.28	45,45,45,45	0
84	MG	1	4027	1/1	0.81	0.26	56,56,56,56	0
84	MG	AS	3725	1/1	0.81	0.21	45,45,45,45	0
84	MG	AS	3574	1/1	0.81	0.32	46,46,46,46	0
84	MG	AS	3585	1/1	0.81	0.26	52,52,52,52	0
85	ZN	AH	201	1/1	0.81	0.11	207,207,207,207	0
84	MG	AS	3741	1/1	0.81	0.09	53,53,53,53	0
84	MG	B	1851	1/1	0.81	0.22	61,61,61,61	0
84	MG	B	1956	1/1	0.82	0.31	46,46,46,46	0
84	MG	CM	1806	1/1	0.82	0.34	52,52,52,52	0
84	MG	1	3433	1/1	0.82	0.33	40,40,40,40	0
84	MG	AS	3539	1/1	0.82	0.32	54,54,54,54	0
84	MG	B	1804	1/1	0.82	0.35	61,61,61,61	0
84	MG	CM	1819	1/1	0.82	0.26	58,58,58,58	0
84	MG	AS	3732	1/1	0.82	0.28	51,51,51,51	0
84	MG	B	1864	1/1	0.82	0.30	70,70,70,70	0
84	MG	AS	3580	1/1	0.82	0.38	58,58,58,58	0
84	MG	3	217	1/1	0.82	0.12	42,42,42,42	0
84	MG	1	3914	1/1	0.82	0.32	59,59,59,59	0
84	MG	Z	201	1/1	0.82	0.20	48,48,48,48	0
84	MG	1	3523	1/1	0.82	0.45	51,51,51,51	0
84	MG	AS	3784	1/1	0.82	0.11	44,44,44,44	0
84	MG	c	202	1/1	0.82	0.19	63,63,63,63	0
84	MG	AS	3794	1/1	0.82	0.28	48,48,48,48	0
84	MG	AS	3803	1/1	0.82	0.47	52,52,52,52	0
84	MG	AS	3611	1/1	0.82	0.23	54,54,54,54	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	CM	1877	1/1	0.82	0.13	86,86,86,86	0
84	MG	AS	3419	1/1	0.82	0.65	47,47,47,47	0
84	MG	1	3979	1/1	0.82	0.19	45,45,45,45	0
84	MG	v	304	1/1	0.82	0.16	50,50,50,50	0
84	MG	AS	3825	1/1	0.82	0.17	45,45,45,45	0
84	MG	AS	3631	1/1	0.82	0.33	51,51,51,51	0
84	MG	AS	3468	1/1	0.82	0.23	51,51,51,51	0
84	MG	AT	203	1/1	0.82	0.24	63,63,63,63	0
84	MG	1	3673	1/1	0.82	0.17	46,46,46,46	0
84	MG	CM	1941	1/1	0.82	0.19	48,48,48,48	0
84	MG	1	3882	1/1	0.82	0.19	37,37,37,37	0
84	MG	1	3748	1/1	0.82	0.31	40,40,40,40	0
84	MG	AS	3498	1/1	0.82	0.30	57,57,57,57	0
84	MG	2	202	1/1	0.82	0.41	51,51,51,51	0
84	MG	AY	401	1/1	0.82	0.10	46,46,46,46	0
84	MG	DA	201	1/1	0.82	0.17	61,61,61,61	0
84	MG	1	3464	1/1	0.82	0.24	40,40,40,40	0
84	MG	DJ	201	1/1	0.82	0.15	53,53,53,53	0
84	MG	B	1912	1/1	0.82	0.34	58,58,58,58	0
84	MG	B	1954	1/1	0.82	0.15	52,52,52,52	0
85	ZN	CB	201	1/1	0.82	0.09	237,237,237,237	0
84	MG	AS	3683	1/1	0.82	0.23	43,43,43,43	0
84	MG	1	3930	1/1	0.82	0.23	59,59,59,59	0
84	MG	AS	3618	1/1	0.83	0.26	49,49,49,49	0
84	MG	AS	3751	1/1	0.83	0.13	39,39,39,39	0
84	MG	AS	3621	1/1	0.83	0.26	65,65,65,65	0
84	MG	o	306	1/1	0.83	0.18	40,40,40,40	0
84	MG	3	210	1/1	0.83	0.19	72,72,72,72	0
84	MG	AS	3789	1/1	0.83	0.16	40,40,40,40	0
84	MG	AS	3790	1/1	0.83	0.13	43,43,43,43	0
84	MG	B	1909	1/1	0.83	0.24	52,52,52,52	0
84	MG	AS	3797	1/1	0.83	0.26	49,49,49,49	0
84	MG	1	3529	1/1	0.83	0.42	53,53,53,53	0
84	MG	AS	3809	1/1	0.83	0.08	45,45,45,45	0
84	MG	1	3685	1/1	0.83	0.09	93,93,93,93	0
84	MG	CM	1873	1/1	0.83	0.20	56,56,56,56	0
84	MG	AS	3642	1/1	0.83	0.36	71,71,71,71	0
84	MG	AS	3644	1/1	0.83	0.30	56,56,56,56	0
84	MG	B	1866	1/1	0.83	0.29	66,66,66,66	0
84	MG	AS	3821	1/1	0.83	0.26	45,45,45,45	0
84	MG	B	1967	1/1	0.83	0.26	51,51,51,51	0
84	MG	B	1872	1/1	0.83	0.17	57,57,57,57	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3861	1/1	0.83	0.24	65,65,65,65	0
84	MG	1	3958	1/1	0.83	0.09	40,40,40,40	0
84	MG	AT	204	1/1	0.83	0.14	86,86,86,86	0
84	MG	B	1934	1/1	0.83	0.11	87,87,87,87	0
84	MG	AS	3669	1/1	0.83	0.15	71,71,71,71	0
84	MG	CM	1928	1/1	0.83	0.15	44,44,44,44	0
84	MG	Q	201	1/1	0.83	0.12	34,34,34,34	0
84	MG	AS	3679	1/1	0.83	0.28	45,45,45,45	0
84	MG	B	1882	1/1	0.83	0.36	57,57,57,57	0
84	MG	U	201	1/1	0.83	0.15	51,51,51,51	0
84	MG	Y	202	1/1	0.83	0.25	76,76,76,76	0
84	MG	8	201	1/1	0.83	0.25	50,50,50,50	0
84	MG	CN	301	1/1	0.83	0.34	67,67,67,67	0
84	MG	1	3698	1/1	0.83	0.23	37,37,37,37	0
84	MG	BV	201	1/1	0.83	0.10	48,48,48,48	0
84	MG	3	204	1/1	0.83	0.30	56,56,56,56	0
84	MG	AH	202	1/1	0.83	0.18	72,72,72,72	0
84	MG	AS	3442	1/1	0.83	0.27	38,38,38,38	0
85	ZN	d	101	1/1	0.83	0.10	251,251,251,251	0
84	MG	AS	3452	1/1	0.83	0.38	41,41,41,41	0
84	MG	1	3816	1/1	0.83	0.25	42,42,42,42	0
84	MG	B	1854	1/1	0.83	0.28	61,61,61,61	0
84	MG	1	3482	1/1	0.84	0.31	49,49,49,49	0
84	MG	AS	3428	1/1	0.84	0.28	36,36,36,36	0
84	MG	AS	3438	1/1	0.84	0.38	54,54,54,54	0
84	MG	AG	202	1/1	0.84	0.13	57,57,57,57	0
84	MG	1	3665	1/1	0.84	0.30	43,43,43,43	0
84	MG	CM	1845	1/1	0.84	0.12	31,31,31,31	0
84	MG	1	3814	1/1	0.84	0.17	47,47,47,47	0
84	MG	1	3543	1/1	0.84	0.18	41,41,41,41	0
84	MG	B	1805	1/1	0.84	0.43	54,54,54,54	0
84	MG	1	3821	1/1	0.84	0.20	39,39,39,39	0
84	MG	CM	1862	1/1	0.84	0.12	64,64,64,64	0
84	MG	AS	3487	1/1	0.84	0.33	39,39,39,39	0
84	MG	3	218	1/1	0.84	0.12	47,47,47,47	0
84	MG	AS	3653	1/1	0.84	0.36	41,41,41,41	0
84	MG	B	1953	1/1	0.84	0.10	48,48,48,48	0
84	MG	AS	3660	1/1	0.84	0.28	66,66,66,66	0
84	MG	1	3672	1/1	0.84	0.12	52,52,52,52	0
84	MG	4	208	1/1	0.84	0.17	38,38,38,38	0
84	MG	B	1829	1/1	0.84	0.27	53,53,53,53	0
84	MG	AS	3833	1/1	0.84	0.10	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3648	1/1	0.84	0.25	69,69,69,69	0
84	MG	B	1972	1/1	0.84	0.17	54,54,54,54	0
84	MG	AS	3672	1/1	0.84	0.10	47,47,47,47	0
84	MG	1	3655	1/1	0.84	0.15	58,58,58,58	0
84	MG	1	3656	1/1	0.84	0.34	59,59,59,59	0
84	MG	AT	209	1/1	0.84	0.32	47,47,47,47	0
84	MG	AS	3690	1/1	0.84	0.15	41,41,41,41	0
84	MG	CM	1942	1/1	0.84	0.15	46,46,46,46	0
84	MG	CM	1952	1/1	0.84	0.19	48,48,48,48	0
84	MG	B	1979	1/1	0.84	0.19	49,49,49,49	0
84	MG	B	1992	1/1	0.84	0.13	45,45,45,45	0
84	MG	CM	1961	1/1	0.84	0.13	46,46,46,46	0
84	MG	CM	1962	1/1	0.84	0.22	53,53,53,53	0
84	MG	1	3784	1/1	0.84	0.11	32,32,32,32	0
84	MG	1	4030	1/1	0.84	0.10	41,41,41,41	0
84	MG	1	3853	1/1	0.84	0.22	54,54,54,54	0
84	MG	B	1852	1/1	0.84	0.32	42,42,42,42	0
84	MG	CW	202	1/1	0.84	0.11	57,57,57,57	0
84	MG	1	3682	1/1	0.84	0.28	68,68,68,68	0
84	MG	1	3413	1/1	0.84	0.32	42,42,42,42	0
84	MG	1	3873	1/1	0.84	0.39	56,56,56,56	0
84	MG	CL	303	1/1	0.84	0.20	61,61,61,61	0
84	MG	9	201	1/1	0.84	0.35	65,65,65,65	0
84	MG	1	3662	1/1	0.84	0.30	54,54,54,54	0
84	MG	AR	401	1/1	0.84	0.22	69,69,69,69	0
84	MG	CM	1811	1/1	0.84	0.21	50,50,50,50	0
84	MG	AS	3765	1/1	0.84	0.12	44,44,44,44	0
84	MG	1	3781	1/1	0.85	0.26	48,48,48,48	0
84	MG	AS	3425	1/1	0.85	0.28	46,46,46,46	0
84	MG	AE	201	1/1	0.85	0.14	79,79,79,79	0
84	MG	AS	3431	1/1	0.85	0.37	52,52,52,52	0
84	MG	1	3782	1/1	0.85	0.26	30,30,30,30	0
84	MG	AF	202	1/1	0.85	0.12	55,55,55,55	0
84	MG	CL	304	1/1	0.85	0.09	54,54,54,54	0
84	MG	CM	1801	1/1	0.85	0.17	52,52,52,52	0
84	MG	CM	1804	1/1	0.85	0.36	40,40,40,40	0
84	MG	1	3480	1/1	0.85	0.35	36,36,36,36	0
84	MG	CM	1807	1/1	0.85	0.31	48,48,48,48	0
84	MG	B	1919	1/1	0.85	0.25	61,61,61,61	0
84	MG	B	1920	1/1	0.85	0.24	48,48,48,48	0
84	MG	AS	3688	1/1	0.85	0.20	39,39,39,39	0
84	MG	1	4017	1/1	0.85	0.12	51,51,51,51	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3604	1/1	0.85	0.28	33,33,33,33	0
84	MG	1	3471	1/1	0.85	0.24	24,24,24,24	0
84	MG	AS	3712	1/1	0.85	0.21	45,45,45,45	0
84	MG	CM	1835	1/1	0.85	0.29	58,58,58,58	0
84	MG	1	3880	1/1	0.85	0.09	38,38,38,38	0
84	MG	1	3797	1/1	0.85	0.29	51,51,51,51	0
84	MG	1	3799	1/1	0.85	0.33	69,69,69,69	0
84	MG	CM	1850	1/1	0.85	0.23	44,44,44,44	0
84	MG	1	4035	1/1	0.85	0.16	53,53,53,53	0
84	MG	1	3897	1/1	0.85	0.14	72,72,72,72	0
84	MG	AS	3502	1/1	0.85	0.21	45,45,45,45	0
84	MG	1	3898	1/1	0.85	0.16	40,40,40,40	0
84	MG	1	3522	1/1	0.85	0.31	37,37,37,37	0
84	MG	1	3622	1/1	0.85	0.30	44,44,44,44	0
84	MG	1	3807	1/1	0.85	0.27	45,45,45,45	0
84	MG	AS	3753	1/1	0.85	0.07	55,55,55,55	0
84	MG	1	3745	1/1	0.85	0.31	38,38,38,38	0
84	MG	3	213	1/1	0.85	0.31	49,49,49,49	0
84	MG	AS	3775	1/1	0.85	0.25	45,45,45,45	0
84	MG	1	3809	1/1	0.85	0.28	47,47,47,47	0
84	MG	AS	3568	1/1	0.85	0.26	42,42,42,42	0
84	MG	1	3664	1/1	0.85	0.24	44,44,44,44	0
84	MG	AS	3578	1/1	0.85	0.26	45,45,45,45	0
84	MG	CM	1895	1/1	0.85	0.32	52,52,52,52	0
84	MG	3	216	1/1	0.85	0.25	65,65,65,65	0
84	MG	CM	1909	1/1	0.85	0.21	52,52,52,52	0
84	MG	CM	1911	1/1	0.85	0.24	47,47,47,47	0
84	MG	1	3690	1/1	0.85	0.17	86,86,86,86	0
84	MG	B	1958	1/1	0.85	0.10	43,43,43,43	0
84	MG	1	3926	1/1	0.85	0.47	64,64,64,64	0
84	MG	1	3475	1/1	0.85	0.21	26,26,26,26	0
84	MG	1	3822	1/1	0.85	0.18	46,46,46,46	0
84	MG	1	3933	1/1	0.85	0.36	51,51,51,51	0
84	MG	AS	3612	1/1	0.85	0.25	46,46,46,46	0
84	MG	1	3568	1/1	0.85	0.16	46,46,46,46	0
84	MG	B	1981	1/1	0.85	0.15	46,46,46,46	0
84	MG	AS	3619	1/1	0.85	0.33	57,57,57,57	0
84	MG	1	3643	1/1	0.85	0.32	34,34,34,34	0
84	MG	r	303	1/1	0.85	0.10	54,54,54,54	0
84	MG	s	201	1/1	0.85	0.24	46,46,46,46	0
84	MG	K	301	1/1	0.85	0.16	72,72,72,72	0
84	MG	1	3949	1/1	0.85	0.07	48,48,48,48	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	CW	201	1/1	0.85	0.10	41,41,41,41	0
84	MG	1	3839	1/1	0.85	0.28	40,40,40,40	0
84	MG	AS	3637	1/1	0.85	0.28	44,44,44,44	0
84	MG	1	3716	1/1	0.85	0.13	51,51,51,51	0
84	MG	1	3964	1/1	0.85	0.16	44,44,44,44	0
84	MG	AU	203	1/1	0.85	0.28	48,48,48,48	0
84	MG	1	3778	1/1	0.85	0.17	39,39,39,39	0
85	ZN	AP	201	1/1	0.85	0.11	226,226,226,226	0
84	MG	B	1899	1/1	0.85	0.22	60,60,60,60	0
84	MG	1	3594	1/1	0.85	0.16	37,37,37,37	0
84	MG	BH	201	1/1	0.85	0.17	50,50,50,50	0
84	MG	1	3780	1/1	0.85	0.19	40,40,40,40	0
84	MG	1	3750	1/1	0.86	0.13	49,49,49,49	0
84	MG	1	3432	1/1	0.86	0.12	54,54,54,54	0
84	MG	1	3753	1/1	0.86	0.18	33,33,33,33	0
84	MG	AT	213	1/1	0.86	0.28	44,44,44,44	0
84	MG	AS	3729	1/1	0.86	0.28	48,48,48,48	0
84	MG	1	3508	1/1	0.86	0.22	43,43,43,43	0
84	MG	Q	202	1/1	0.86	0.27	65,65,65,65	0
84	MG	CM	1880	1/1	0.86	0.14	44,44,44,44	0
84	MG	BB	305	1/1	0.86	0.39	64,64,64,64	0
84	MG	AS	3734	1/1	0.86	0.22	43,43,43,43	0
84	MG	AS	3627	1/1	0.86	0.17	54,54,54,54	0
84	MG	1	3704	1/1	0.86	0.48	42,42,42,42	0
84	MG	1	3886	1/1	0.86	0.12	42,42,42,42	0
84	MG	1	4016	1/1	0.86	0.10	39,39,39,39	0
84	MG	CM	1913	1/1	0.86	0.07	48,48,48,48	0
84	MG	AS	3512	1/1	0.86	0.33	64,64,64,64	0
84	MG	CM	1917	1/1	0.86	0.16	55,55,55,55	0
84	MG	AS	3528	1/1	0.86	0.30	55,55,55,55	0
84	MG	AS	3764	1/1	0.86	0.11	44,44,44,44	0
84	MG	CM	1923	1/1	0.86	0.20	53,53,53,53	0
84	MG	AS	3638	1/1	0.86	0.12	39,39,39,39	0
84	MG	CM	1929	1/1	0.86	0.08	52,52,52,52	0
84	MG	1	3928	1/1	0.86	0.09	55,55,55,55	0
84	MG	1	3582	1/1	0.86	0.23	58,58,58,58	0
84	MG	1	3487	1/1	0.86	0.12	52,52,52,52	0
84	MG	AS	3536	1/1	0.86	0.30	42,42,42,42	0
84	MG	1	3815	1/1	0.86	0.23	72,72,72,72	0
84	MG	1	3859	1/1	0.86	0.10	43,43,43,43	0
84	MG	1	3794	1/1	0.86	0.18	42,42,42,42	0
84	MG	B	1966	1/1	0.86	0.21	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	4033	1/1	0.86	0.22	42,42,42,42	0
84	MG	CM	1970	1/1	0.86	0.13	43,43,43,43	0
84	MG	CM	1974	1/1	0.86	0.09	43,43,43,43	0
84	MG	CM	1975	1/1	0.86	0.23	48,48,48,48	0
84	MG	AS	3579	1/1	0.86	0.25	53,53,53,53	0
84	MG	1	3954	1/1	0.86	0.16	43,43,43,43	0
84	MG	CQ	303	1/1	0.86	0.08	39,39,39,39	0
84	MG	1	3912	1/1	0.86	0.16	36,36,36,36	0
84	MG	1	3442	1/1	0.86	0.25	63,63,63,63	0
84	MG	1	3917	1/1	0.86	0.15	70,70,70,70	0
84	MG	DB	201	1/1	0.86	0.20	62,62,62,62	0
84	MG	AS	3682	1/1	0.86	0.22	42,42,42,42	0
84	MG	DB	203	1/1	0.86	0.30	58,58,58,58	0
84	MG	B	1884	1/1	0.86	0.12	89,89,89,89	0
84	MG	B	1990	1/1	0.86	0.12	54,54,54,54	0
84	MG	AS	3598	1/1	0.86	0.17	41,41,41,41	0
84	MG	AS	3601	1/1	0.86	0.25	49,49,49,49	0
84	MG	AS	3698	1/1	0.86	0.15	44,44,44,44	0
84	MG	AS	3702	1/1	0.86	0.47	50,50,50,50	0
84	MG	B	1828	1/1	0.86	0.20	45,45,45,45	0
84	MG	D	302	1/1	0.86	0.10	35,35,35,35	0
84	MG	AS	3551	1/1	0.87	0.28	43,43,43,43	0
84	MG	AS	3710	1/1	0.87	0.26	48,48,48,48	0
84	MG	AS	3555	1/1	0.87	0.21	38,38,38,38	0
84	MG	CM	1809	1/1	0.87	0.28	102,102,102,102	0
84	MG	B	1904	1/1	0.87	0.10	50,50,50,50	0
84	MG	AS	3718	1/1	0.87	0.17	43,43,43,43	0
84	MG	1	3530	1/1	0.87	0.27	37,37,37,37	0
84	MG	AS	3726	1/1	0.87	0.27	50,50,50,50	0
84	MG	4	202	1/1	0.87	0.31	57,57,57,57	0
84	MG	B	1910	1/1	0.87	0.15	50,50,50,50	0
84	MG	AS	3730	1/1	0.87	0.18	42,42,42,42	0
84	MG	4	205	1/1	0.87	0.63	48,48,48,48	0
84	MG	1	3924	1/1	0.87	0.12	62,62,62,62	0
84	MG	CM	1840	1/1	0.87	0.43	56,56,56,56	0
84	MG	AS	3583	1/1	0.87	0.20	46,46,46,46	0
84	MG	AS	3738	1/1	0.87	0.09	54,54,54,54	0
84	MG	4	210	1/1	0.87	0.27	38,38,38,38	0
84	MG	4	211	1/1	0.87	0.15	63,63,63,63	0
84	MG	1	3466	1/1	0.87	0.20	37,37,37,37	0
84	MG	1	3555	1/1	0.87	0.23	60,60,60,60	0
84	MG	AS	3595	1/1	0.87	0.20	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	o	305	1/1	0.87	0.15	42,42,42,42	0
84	MG	AS	3760	1/1	0.87	0.08	36,36,36,36	0
84	MG	1	3448	1/1	0.87	0.28	36,36,36,36	0
84	MG	AS	3600	1/1	0.87	0.24	50,50,50,50	0
84	MG	B	1930	1/1	0.87	0.17	64,64,64,64	0
84	MG	AS	3609	1/1	0.87	0.15	44,44,44,44	0
84	MG	g	101	1/1	0.87	0.53	87,87,87,87	0
84	MG	B	1932	1/1	0.87	0.14	36,36,36,36	0
84	MG	AS	3417	1/1	0.87	0.29	36,36,36,36	0
84	MG	CM	1883	1/1	0.87	0.26	42,42,42,42	0
84	MG	1	4024	1/1	0.87	0.25	44,44,44,44	0
84	MG	1	3652	1/1	0.87	0.30	67,67,67,67	0
84	MG	v	303	1/1	0.87	0.20	49,49,49,49	0
84	MG	CM	1900	1/1	0.87	0.26	47,47,47,47	0
84	MG	1	3445	1/1	0.87	0.33	31,31,31,31	0
84	MG	AS	3804	1/1	0.87	0.15	67,67,67,67	0
84	MG	AS	3623	1/1	0.87	0.19	51,51,51,51	0
84	MG	1	3931	1/1	0.87	0.19	61,61,61,61	0
84	MG	1	3783	1/1	0.87	0.15	59,59,59,59	0
84	MG	1	3825	1/1	0.87	0.33	48,48,48,48	0
84	MG	1	3737	1/1	0.87	0.40	24,24,24,24	0
84	MG	AS	3456	1/1	0.87	0.19	58,58,58,58	0
84	MG	B	1867	1/1	0.87	0.22	90,90,90,90	0
84	MG	AS	3826	1/1	0.87	0.15	39,39,39,39	0
84	MG	1	3525	1/1	0.87	0.13	55,55,55,55	0
84	MG	CM	1940	1/1	0.87	0.14	46,46,46,46	0
84	MG	AS	3470	1/1	0.87	0.26	46,46,46,46	0
84	MG	AS	3643	1/1	0.87	0.17	61,61,61,61	0
84	MG	CM	1950	1/1	0.87	0.06	40,40,40,40	0
84	MG	1	3657	1/1	0.87	0.27	54,54,54,54	0
84	MG	AS	3645	1/1	0.87	0.19	50,50,50,50	0
84	MG	B	1951	1/1	0.87	0.09	49,49,49,49	0
84	MG	CM	1958	1/1	0.87	0.10	59,59,59,59	0
84	MG	1	3574	1/1	0.87	0.10	41,41,41,41	0
84	MG	1	3960	1/1	0.87	0.10	43,43,43,43	0
84	MG	1	3911	1/1	0.87	0.19	36,36,36,36	0
84	MG	CM	1966	1/1	0.87	0.18	54,54,54,54	0
84	MG	1	3608	1/1	0.87	0.14	71,71,71,71	0
84	MG	1	3978	1/1	0.87	0.08	36,36,36,36	0
84	MG	1	3575	1/1	0.87	0.23	49,49,49,49	0
84	MG	AU	204	1/1	0.87	0.12	43,43,43,43	0
84	MG	B	1892	1/1	0.87	0.15	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3612	1/1	0.87	0.41	49,49,49,49	0
84	MG	AS	3511	1/1	0.87	0.24	48,48,48,48	0
84	MG	BE	303	1/1	0.87	0.24	52,52,52,52	0
84	MG	1	3528	1/1	0.87	0.19	52,52,52,52	0
84	MG	AS	3676	1/1	0.87	0.27	35,35,35,35	0
84	MG	1	3989	1/1	0.87	0.08	35,35,35,35	0
84	MG	BO	201	1/1	0.87	0.11	48,48,48,48	0
84	MG	AS	3681	1/1	0.87	0.12	33,33,33,33	0
84	MG	DG	201	1/1	0.87	0.18	77,77,77,77	0
84	MG	1	3503	1/1	0.87	0.22	49,49,49,49	0
84	MG	B	1902	1/1	0.87	0.16	63,63,63,63	0
84	MG	B	1985	1/1	0.87	0.08	54,54,54,54	0
84	MG	B	1986	1/1	0.87	0.11	44,44,44,44	0
84	MG	B	1809	1/1	0.87	0.28	42,42,42,42	0
84	MG	AS	3542	1/1	0.87	0.38	56,56,56,56	0
84	MG	AS	3548	1/1	0.87	0.26	42,42,42,42	0
84	MG	AS	3705	1/1	0.87	0.15	48,48,48,48	0
84	MG	B	1862	1/1	0.88	0.24	54,54,54,54	0
84	MG	y	203	1/1	0.88	0.25	44,44,44,44	0
84	MG	AS	3762	1/1	0.88	0.23	42,42,42,42	0
84	MG	1	3894	1/1	0.88	0.23	73,73,73,73	0
84	MG	1	3419	1/1	0.88	0.24	18,18,18,18	0
84	MG	CM	1848	1/1	0.88	0.22	39,39,39,39	0
84	MG	AS	3626	1/1	0.88	0.12	45,45,45,45	0
84	MG	B	1868	1/1	0.88	0.20	70,70,70,70	0
84	MG	1	3412	1/1	0.88	0.30	49,49,49,49	0
84	MG	AS	3630	1/1	0.88	0.12	59,59,59,59	0
84	MG	AS	3476	1/1	0.88	0.22	33,33,33,33	0
84	MG	AS	3633	1/1	0.88	0.37	84,84,84,84	0
84	MG	1	3902	1/1	0.88	0.10	57,57,57,57	0
84	MG	CM	1869	1/1	0.88	0.15	46,46,46,46	0
84	MG	AA	201	1/1	0.88	0.13	57,57,57,57	0
84	MG	B	1877	1/1	0.88	0.27	62,62,62,62	0
84	MG	AS	3492	1/1	0.88	0.39	56,56,56,56	0
84	MG	AS	3805	1/1	0.88	0.22	45,45,45,45	0
84	MG	B	1879	1/1	0.88	0.23	42,42,42,42	0
84	MG	AB	202	1/1	0.88	0.19	53,53,53,53	0
84	MG	B	1961	1/1	0.88	0.10	54,54,54,54	0
84	MG	AS	3500	1/1	0.88	0.26	50,50,50,50	0
84	MG	1	3581	1/1	0.88	0.26	45,45,45,45	0
84	MG	1	3678	1/1	0.88	0.11	55,55,55,55	0
84	MG	1	3971	1/1	0.88	0.07	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3974	1/1	0.88	0.10	43,43,43,43	0
84	MG	1	3654	1/1	0.88	0.21	52,52,52,52	0
84	MG	AS	3828	1/1	0.88	0.11	47,47,47,47	0
84	MG	1	3681	1/1	0.88	0.08	45,45,45,45	0
84	MG	AS	3832	1/1	0.88	0.15	39,39,39,39	0
84	MG	CM	1912	1/1	0.88	0.10	44,44,44,44	0
84	MG	B	1980	1/1	0.88	0.11	49,49,49,49	0
84	MG	B	1897	1/1	0.88	0.24	47,47,47,47	0
84	MG	AP	203	1/1	0.88	0.35	74,74,74,74	0
84	MG	1	3785	1/1	0.88	0.23	53,53,53,53	0
84	MG	1	3426	1/1	0.88	0.30	22,22,22,22	0
84	MG	1	3564	1/1	0.88	0.44	54,54,54,54	0
84	MG	CM	1924	1/1	0.88	0.17	53,53,53,53	0
84	MG	1	3567	1/1	0.88	0.17	41,41,41,41	0
84	MG	AS	3547	1/1	0.88	0.19	41,41,41,41	0
84	MG	E	301	1/1	0.88	0.07	48,48,48,48	0
84	MG	AS	3550	1/1	0.88	0.28	35,35,35,35	0
84	MG	1	4003	1/1	0.88	0.11	48,48,48,48	0
84	MG	CM	1949	1/1	0.88	0.10	52,52,52,52	0
84	MG	4	207	1/1	0.88	0.24	43,43,43,43	0
84	MG	AS	3694	1/1	0.88	0.13	54,54,54,54	0
84	MG	1	3795	1/1	0.88	0.15	40,40,40,40	0
84	MG	1	3687	1/1	0.88	0.17	43,43,43,43	0
84	MG	B	1826	1/1	0.88	0.26	47,47,47,47	0
84	MG	B	1827	1/1	0.88	0.20	58,58,58,58	0
84	MG	BI	301	1/1	0.88	0.09	45,45,45,45	0
84	MG	1	3585	1/1	0.88	0.10	57,57,57,57	0
84	MG	1	3689	1/1	0.88	0.12	42,42,42,42	0
84	MG	AS	3582	1/1	0.88	0.33	47,47,47,47	0
84	MG	k	401	1/1	0.88	0.14	65,65,65,65	0
84	MG	CM	1973	1/1	0.88	0.17	45,45,45,45	0
84	MG	1	4019	1/1	0.88	0.21	42,42,42,42	0
84	MG	1	3431	1/1	0.88	0.14	53,53,53,53	0
84	MG	CM	1976	1/1	0.88	0.21	55,55,55,55	0
84	MG	CL	301	1/1	0.88	0.14	49,49,49,49	0
84	MG	CM	1981	1/1	0.88	0.23	45,45,45,45	0
84	MG	1	3802	1/1	0.88	0.20	75,75,75,75	0
84	MG	B	1840	1/1	0.88	0.21	37,37,37,37	0
84	MG	1	3589	1/1	0.88	0.21	33,33,33,33	0
84	MG	1	3632	1/1	0.88	0.11	42,42,42,42	0
84	MG	u	202	1/1	0.88	0.09	47,47,47,47	0
84	MG	AS	3426	1/1	0.88	0.21	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3697	1/1	0.88	0.12	61,61,61,61	0
84	MG	1	3524	1/1	0.88	0.38	50,50,50,50	0
84	MG	AS	3437	1/1	0.88	0.42	54,54,54,54	0
84	MG	1	3640	1/1	0.88	0.12	59,59,59,59	0
84	MG	AS	3743	1/1	0.88	0.08	47,47,47,47	0
84	MG	AS	3614	1/1	0.88	0.15	46,46,46,46	0
84	MG	AS	3439	1/1	0.88	0.35	44,44,44,44	0
84	MG	1	3944	1/1	0.88	0.09	39,39,39,39	0
84	MG	CM	1823	1/1	0.88	0.17	49,49,49,49	0
84	MG	AS	3752	1/1	0.88	0.21	47,47,47,47	0
84	MG	CM	1834	1/1	0.88	0.32	43,43,43,43	0
84	MG	AS	3739	1/1	0.89	0.06	43,43,43,43	0
84	MG	AS	3599	1/1	0.89	0.20	48,48,48,48	0
84	MG	CM	1822	1/1	0.89	0.18	47,47,47,47	0
84	MG	AS	3405	1/1	0.89	0.28	34,34,34,34	0
84	MG	CM	1824	1/1	0.89	0.13	48,48,48,48	0
84	MG	1	3446	1/1	0.89	0.15	29,29,29,29	0
84	MG	AS	3745	1/1	0.89	0.08	62,62,62,62	0
84	MG	1	3934	1/1	0.89	0.10	51,51,51,51	0
84	MG	AS	3748	1/1	0.89	0.14	36,36,36,36	0
84	MG	1	3733	1/1	0.89	0.23	52,52,52,52	0
84	MG	CM	1839	1/1	0.89	0.20	42,42,42,42	0
84	MG	1	3875	1/1	0.89	0.29	52,52,52,52	0
84	MG	1	3675	1/1	0.89	0.17	54,54,54,54	0
84	MG	1	3545	1/1	0.89	0.40	46,46,46,46	0
84	MG	AS	3754	1/1	0.89	0.15	40,40,40,40	0
84	MG	1	3881	1/1	0.89	0.20	44,44,44,44	0
84	MG	CM	1853	1/1	0.89	0.11	48,48,48,48	0
84	MG	CM	1854	1/1	0.89	0.10	37,37,37,37	0
84	MG	B	1822	1/1	0.89	0.30	47,47,47,47	0
84	MG	CM	1856	1/1	0.89	0.30	54,54,54,54	0
84	MG	1	3550	1/1	0.89	0.17	51,51,51,51	0
84	MG	B	1825	1/1	0.89	0.26	47,47,47,47	0
84	MG	1	3601	1/1	0.89	0.25	51,51,51,51	0
84	MG	1	3647	1/1	0.89	0.23	48,48,48,48	0
84	MG	1	3602	1/1	0.89	0.10	53,53,53,53	0
84	MG	1	3967	1/1	0.89	0.07	51,51,51,51	0
84	MG	AS	3461	1/1	0.89	0.27	33,33,33,33	0
84	MG	AS	3463	1/1	0.89	0.13	54,54,54,54	0
84	MG	AS	3792	1/1	0.89	0.10	64,64,64,64	0
84	MG	1	3968	1/1	0.89	0.10	45,45,45,45	0
84	MG	1	3896	1/1	0.89	0.14	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	AS	3799	1/1	0.89	0.08	44,44,44,44	0
84	MG	AS	3635	1/1	0.89	0.13	36,36,36,36	0
84	MG	1	3684	1/1	0.89	0.33	78,78,78,78	0
84	MG	1	3438	1/1	0.89	0.21	34,34,34,34	0
84	MG	1	3901	1/1	0.89	0.17	51,51,51,51	0
84	MG	1	3653	1/1	0.89	0.21	48,48,48,48	0
84	MG	4	212	1/1	0.89	0.16	44,44,44,44	0
84	MG	j	301	1/1	0.89	0.16	35,35,35,35	0
84	MG	1	3607	1/1	0.89	0.23	54,54,54,54	0
84	MG	1	3984	1/1	0.89	0.27	53,53,53,53	0
84	MG	k	403	1/1	0.89	0.20	56,56,56,56	0
84	MG	1	3985	1/1	0.89	0.09	34,34,34,34	0
84	MG	AS	3655	1/1	0.89	0.12	46,46,46,46	0
84	MG	1	3987	1/1	0.89	0.24	44,44,44,44	0
84	MG	1	3908	1/1	0.89	0.20	43,43,43,43	0
84	MG	B	1962	1/1	0.89	0.10	46,46,46,46	0
84	MG	CM	1920	1/1	0.89	0.08	44,44,44,44	0
84	MG	1	3994	1/1	0.89	0.19	37,37,37,37	0
84	MG	1	3557	1/1	0.89	0.25	54,54,54,54	0
84	MG	1	4002	1/1	0.89	0.13	39,39,39,39	0
84	MG	AS	3530	1/1	0.89	0.24	38,38,38,38	0
84	MG	v	302	1/1	0.89	0.21	68,68,68,68	0
84	MG	AS	3674	1/1	0.89	0.34	65,65,65,65	0
84	MG	1	3416	1/1	0.89	0.22	46,46,46,46	0
84	MG	CM	1948	1/1	0.89	0.12	58,58,58,58	0
84	MG	1	4004	1/1	0.89	0.10	48,48,48,48	0
84	MG	AT	211	1/1	0.89	0.09	44,44,44,44	0
84	MG	1	3411	1/1	0.89	0.36	32,32,32,32	0
84	MG	1	3693	1/1	0.89	0.14	47,47,47,47	0
84	MG	B	1880	1/1	0.89	0.27	47,47,47,47	0
84	MG	AS	3685	1/1	0.89	0.14	44,44,44,44	0
84	MG	AU	208	1/1	0.89	0.09	42,42,42,42	0
84	MG	AS	3686	1/1	0.89	0.23	38,38,38,38	0
84	MG	AS	3544	1/1	0.89	0.12	48,48,48,48	0
84	MG	CM	1965	1/1	0.89	0.19	53,53,53,53	0
84	MG	BE	302	1/1	0.89	0.23	36,36,36,36	0
84	MG	1	3915	1/1	0.89	0.17	30,30,30,30	0
84	MG	z	201	1/1	0.89	0.15	74,74,74,74	0
84	MG	0	202	1/1	0.89	0.17	59,59,59,59	0
84	MG	B	1993	1/1	0.89	0.17	42,42,42,42	0
84	MG	1	3659	1/1	0.89	0.26	41,41,41,41	0
84	MG	AS	3704	1/1	0.89	0.13	44,44,44,44	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	BS	201	1/1	0.89	0.10	49,49,49,49	0
84	MG	1	3614	1/1	0.89	0.15	78,78,78,78	0
84	MG	CM	1983	1/1	0.89	0.27	51,51,51,51	0
84	MG	1	3841	1/1	0.89	0.23	42,42,42,42	0
84	MG	AS	3709	1/1	0.89	0.24	43,43,43,43	0
84	MG	1	4021	1/1	0.89	0.08	47,47,47,47	0
84	MG	1	4022	1/1	0.89	0.06	40,40,40,40	0
84	MG	1	3616	1/1	0.89	0.28	26,26,26,26	0
84	MG	1	3486	1/1	0.89	0.35	37,37,37,37	0
84	MG	AS	3719	1/1	0.89	0.17	42,42,42,42	0
84	MG	1	3467	1/1	0.89	0.34	43,43,43,43	0
84	MG	1	3624	1/1	0.89	0.19	55,55,55,55	0
84	MG	1	3669	1/1	0.89	0.27	42,42,42,42	0
84	MG	1	3427	1/1	0.89	0.28	37,37,37,37	0
84	MG	1	3629	1/1	0.89	0.26	32,32,32,32	0
84	MG	B	1908	1/1	0.89	0.39	53,53,53,53	0
84	MG	1	3862	1/1	0.89	0.17	58,58,58,58	0
84	MG	B	1802	1/1	0.89	0.35	34,34,34,34	0
84	MG	CM	1812	1/1	0.89	0.13	44,44,44,44	0
84	MG	AS	3404	1/1	0.89	0.44	34,34,34,34	0
84	MG	B	1916	1/1	0.90	0.09	58,58,58,58	0
84	MG	B	1917	1/1	0.90	0.33	53,53,53,53	0
84	MG	1	3877	1/1	0.90	0.35	63,63,63,63	0
84	MG	1	3879	1/1	0.90	0.14	41,41,41,41	0
84	MG	1	3499	1/1	0.90	0.26	37,37,37,37	0
84	MG	CM	1826	1/1	0.90	0.10	47,47,47,47	0
84	MG	CM	1827	1/1	0.90	0.21	51,51,51,51	0
84	MG	1	3729	1/1	0.90	0.33	43,43,43,43	0
84	MG	CM	1833	1/1	0.90	0.25	49,49,49,49	0
84	MG	1	3969	1/1	0.90	0.08	43,43,43,43	0
84	MG	1	3526	1/1	0.90	0.25	54,54,54,54	0
84	MG	AS	3440	1/1	0.90	0.20	28,28,28,28	0
84	MG	1	3734	1/1	0.90	0.38	54,54,54,54	0
84	MG	AS	3758	1/1	0.90	0.10	57,57,57,57	0
84	MG	AS	3446	1/1	0.90	0.23	36,36,36,36	0
84	MG	CM	1842	1/1	0.90	0.14	52,52,52,52	0
84	MG	B	1933	1/1	0.90	0.19	70,70,70,70	0
84	MG	1	3976	1/1	0.90	0.07	40,40,40,40	0
84	MG	1	3500	1/1	0.90	0.19	36,36,36,36	0
84	MG	AS	3769	1/1	0.90	0.17	47,47,47,47	0
84	MG	CM	1852	1/1	0.90	0.20	35,35,35,35	0
84	MG	B	1834	1/1	0.90	0.16	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3772	1/1	0.90	0.22	46,46,46,46	0
84	MG	1	3650	1/1	0.90	0.39	43,43,43,43	0
84	MG	AS	3778	1/1	0.90	0.09	50,50,50,50	0
84	MG	1	3606	1/1	0.90	0.21	52,52,52,52	0
84	MG	AS	3467	1/1	0.90	0.27	68,68,68,68	0
84	MG	AS	3788	1/1	0.90	0.13	49,49,49,49	0
84	MG	1	3803	1/1	0.90	0.17	40,40,40,40	0
84	MG	1	3738	1/1	0.90	0.22	35,35,35,35	0
84	MG	B	1843	1/1	0.90	0.29	58,58,58,58	0
84	MG	B	1845	1/1	0.90	0.10	49,49,49,49	0
84	MG	AS	3484	1/1	0.90	0.26	40,40,40,40	0
84	MG	1	3900	1/1	0.90	0.21	53,53,53,53	0
84	MG	1	3743	1/1	0.90	0.17	32,32,32,32	0
84	MG	o	302	1/1	0.90	0.24	34,34,34,34	0
84	MG	1	3477	1/1	0.90	0.39	42,42,42,42	0
84	MG	AS	3807	1/1	0.90	0.05	42,42,42,42	0
84	MG	AS	3808	1/1	0.90	0.07	50,50,50,50	0
84	MG	1	3993	1/1	0.90	0.12	40,40,40,40	0
84	MG	1	3434	1/1	0.90	0.25	23,23,23,23	0
84	MG	CM	1890	1/1	0.90	0.29	34,34,34,34	0
84	MG	1	3542	1/1	0.90	0.33	40,40,40,40	0
84	MG	1	3435	1/1	0.90	0.23	27,27,27,27	0
84	MG	AS	3819	1/1	0.90	0.09	36,36,36,36	0
84	MG	1	3483	1/1	0.90	0.17	37,37,37,37	0
84	MG	1	3418	1/1	0.90	0.24	31,31,31,31	0
84	MG	1	3514	1/1	0.90	0.23	26,26,26,26	0
84	MG	AS	3509	1/1	0.90	0.23	37,37,37,37	0
84	MG	CM	1915	1/1	0.90	0.30	34,34,34,34	0
84	MG	1	3756	1/1	0.90	0.19	47,47,47,47	0
84	MG	B	1870	1/1	0.90	0.21	50,50,50,50	0
84	MG	AS	3514	1/1	0.90	0.26	33,33,33,33	0
84	MG	AS	3670	1/1	0.90	0.12	42,42,42,42	0
84	MG	1	3916	1/1	0.90	0.20	75,75,75,75	0
84	MG	CM	1921	1/1	0.90	0.11	42,42,42,42	0
84	MG	1	3827	1/1	0.90	0.20	52,52,52,52	0
84	MG	AS	3673	1/1	0.90	0.13	49,49,49,49	0
84	MG	1	3918	1/1	0.90	0.06	53,53,53,53	0
84	MG	AS	3675	1/1	0.90	0.17	49,49,49,49	0
84	MG	CM	1935	1/1	0.90	0.11	44,44,44,44	0
84	MG	CM	1939	1/1	0.90	0.15	45,45,45,45	0
84	MG	0	201	1/1	0.90	0.19	41,41,41,41	0
84	MG	1	3620	1/1	0.90	0.15	40,40,40,40	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3835	1/1	0.90	0.24	35,35,35,35	0
84	MG	1	3838	1/1	0.90	0.23	67,67,67,67	0
84	MG	B	1883	1/1	0.90	0.16	37,37,37,37	0
84	MG	AS	3684	1/1	0.90	0.17	32,32,32,32	0
84	MG	AS	3543	1/1	0.90	0.23	60,60,60,60	0
84	MG	1	3415	1/1	0.90	0.29	38,38,38,38	0
84	MG	CM	1955	1/1	0.90	0.24	42,42,42,42	0
84	MG	AU	206	1/1	0.90	0.11	42,42,42,42	0
84	MG	AS	3687	1/1	0.90	0.33	44,44,44,44	0
84	MG	AS	3546	1/1	0.90	0.16	42,42,42,42	0
84	MG	BB	302	1/1	0.90	0.34	44,44,44,44	0
84	MG	1	3759	1/1	0.90	0.12	36,36,36,36	0
84	MG	B	1994	1/1	0.90	0.11	58,58,58,58	0
84	MG	1	3768	1/1	0.90	0.15	28,28,28,28	0
84	MG	1	3770	1/1	0.90	0.15	33,33,33,33	0
84	MG	1	3494	1/1	0.90	0.08	37,37,37,37	0
84	MG	1	3849	1/1	0.90	0.17	38,38,38,38	0
84	MG	AS	3559	1/1	0.90	0.24	46,46,46,46	0
84	MG	AS	3565	1/1	0.90	0.31	35,35,35,35	0
84	MG	1	4034	1/1	0.90	0.07	58,58,58,58	0
84	MG	AS	3569	1/1	0.90	0.15	37,37,37,37	0
84	MG	CM	1980	1/1	0.90	0.08	43,43,43,43	0
84	MG	1	3592	1/1	0.90	0.18	53,53,53,53	0
84	MG	1	3666	1/1	0.90	0.19	42,42,42,42	0
84	MG	1	3559	1/1	0.90	0.16	43,43,43,43	0
84	MG	AI	201	1/1	0.90	0.08	54,54,54,54	0
84	MG	1	3714	1/1	0.90	0.21	42,42,42,42	0
84	MG	1	3460	1/1	0.90	0.22	21,21,21,21	0
84	MG	AS	3727	1/1	0.90	0.17	51,51,51,51	0
84	MG	1	3867	1/1	0.90	0.14	94,94,94,94	0
84	MG	1	3462	1/1	0.90	0.30	50,50,50,50	0
84	MG	1	3638	1/1	0.90	0.16	38,38,38,38	0
84	MG	1	3955	1/1	0.90	0.11	41,41,41,41	0
84	MG	AS	3593	1/1	0.90	0.19	52,52,52,52	0
84	MG	1	3600	1/1	0.90	0.10	47,47,47,47	0
84	MG	AS	3737	1/1	0.90	0.06	36,36,36,36	0
84	MG	AS	3596	1/1	0.90	0.16	142,142,142,142	0
84	MG	B	1813	1/1	0.90	0.22	50,50,50,50	0
85	ZN	h	201	1/1	0.90	0.09	238,238,238,238	0
84	MG	1	3727	1/1	0.90	0.11	36,36,36,36	0
84	MG	CM	1815	1/1	0.90	0.24	44,44,44,44	0
84	MG	CM	1817	1/1	0.90	0.24	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3833	1/1	0.91	0.11	34,34,34,34	0
84	MG	AS	3572	1/1	0.91	0.20	36,36,36,36	0
84	MG	1	3507	1/1	0.91	0.28	32,32,32,32	0
84	MG	1	3465	1/1	0.91	0.25	38,38,38,38	0
84	MG	1	3730	1/1	0.91	0.24	32,32,32,32	0
84	MG	Y	203	1/1	0.91	0.18	85,85,85,85	0
84	MG	B	1906	1/1	0.91	0.17	39,39,39,39	0
84	MG	1	3610	1/1	0.91	0.13	28,28,28,28	0
84	MG	1	3842	1/1	0.91	0.26	50,50,50,50	0
84	MG	AS	3736	1/1	0.91	0.08	35,35,35,35	0
84	MG	1	3910	1/1	0.91	0.11	69,69,69,69	0
84	MG	CM	1820	1/1	0.91	0.36	42,42,42,42	0
84	MG	AS	3587	1/1	0.91	0.21	44,44,44,44	0
84	MG	1	3611	1/1	0.91	0.27	31,31,31,31	0
84	MG	4	203	1/1	0.91	0.25	40,40,40,40	0
84	MG	AS	3592	1/1	0.91	0.09	42,42,42,42	0
84	MG	1	3844	1/1	0.91	0.18	54,54,54,54	0
84	MG	AS	3594	1/1	0.91	0.42	43,43,43,43	0
84	MG	B	1819	1/1	0.91	0.19	40,40,40,40	0
84	MG	CM	1830	1/1	0.91	0.24	36,36,36,36	0
84	MG	1	3983	1/1	0.91	0.08	44,44,44,44	0
84	MG	AS	3423	1/1	0.91	0.23	27,27,27,27	0
83	3K5	AS	3401	57/57	0.91	0.16	47,66,88,92	0
84	MG	4	209	1/1	0.91	0.15	39,39,39,39	0
84	MG	1	3644	1/1	0.91	0.15	34,34,34,34	0
84	MG	CM	1838	1/1	0.91	0.14	53,53,53,53	0
84	MG	1	3691	1/1	0.91	0.21	43,43,43,43	0
84	MG	AS	3602	1/1	0.91	0.44	43,43,43,43	0
84	MG	AS	3759	1/1	0.91	0.18	42,42,42,42	0
84	MG	AS	3608	1/1	0.91	0.22	50,50,50,50	0
84	MG	AS	3761	1/1	0.91	0.26	42,42,42,42	0
84	MG	1	3791	1/1	0.91	0.16	31,31,31,31	0
84	MG	B	1926	1/1	0.91	0.21	56,56,56,56	0
84	MG	4	213	1/1	0.91	0.14	43,43,43,43	0
84	MG	B	1929	1/1	0.91	0.18	45,45,45,45	0
84	MG	1	3856	1/1	0.91	0.22	46,46,46,46	0
84	MG	B	1833	1/1	0.91	0.12	34,34,34,34	0
84	MG	AS	3447	1/1	0.91	0.24	43,43,43,43	0
84	MG	AS	3450	1/1	0.91	0.21	41,41,41,41	0
84	MG	AS	3782	1/1	0.91	0.11	50,50,50,50	0
84	MG	1	3667	1/1	0.91	0.13	43,43,43,43	0
84	MG	AS	3454	1/1	0.91	0.32	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	CM	1868	1/1	0.91	0.17	48,48,48,48	0
84	MG	1	3995	1/1	0.91	0.10	45,45,45,45	0
84	MG	B	1935	1/1	0.91	0.20	86,86,86,86	0
84	MG	k	402	1/1	0.91	0.10	62,62,62,62	0
84	MG	1	3645	1/1	0.91	0.13	34,34,34,34	0
84	MG	AS	3793	1/1	0.91	0.13	59,59,59,59	0
84	MG	1	3613	1/1	0.91	0.23	33,33,33,33	0
84	MG	AS	3795	1/1	0.91	0.08	41,41,41,41	0
84	MG	B	1841	1/1	0.91	0.25	28,28,28,28	0
84	MG	B	1842	1/1	0.91	0.20	35,35,35,35	0
84	MG	k	405	1/1	0.91	0.18	34,34,34,34	0
84	MG	AS	3472	1/1	0.91	0.24	40,40,40,40	0
84	MG	CM	1888	1/1	0.91	0.11	39,39,39,39	0
84	MG	1	3533	1/1	0.91	0.16	31,31,31,31	0
84	MG	1	3865	1/1	0.91	0.12	56,56,56,56	0
84	MG	CM	1893	1/1	0.91	0.18	31,31,31,31	0
84	MG	AS	3480	1/1	0.91	0.12	38,38,38,38	0
84	MG	CM	1898	1/1	0.91	0.27	44,44,44,44	0
84	MG	AS	3483	1/1	0.91	0.23	32,32,32,32	0
84	MG	CM	1901	1/1	0.91	0.08	60,60,60,60	0
84	MG	CM	1905	1/1	0.91	0.31	35,35,35,35	0
84	MG	1	3866	1/1	0.91	0.13	52,52,52,52	0
84	MG	1	3598	1/1	0.91	0.38	42,42,42,42	0
84	MG	1	3699	1/1	0.91	0.15	40,40,40,40	0
84	MG	AS	3648	1/1	0.91	0.07	44,44,44,44	0
84	MG	1	3929	1/1	0.91	0.24	52,52,52,52	0
84	MG	B	1858	1/1	0.91	0.12	36,36,36,36	0
84	MG	1	4018	1/1	0.91	0.26	39,39,39,39	0
84	MG	1	3700	1/1	0.91	0.17	28,28,28,28	0
84	MG	1	3703	1/1	0.91	0.20	53,53,53,53	0
84	MG	1	3539	1/1	0.91	0.35	48,48,48,48	0
84	MG	x	201	1/1	0.91	0.28	28,28,28,28	0
84	MG	AS	3831	1/1	0.91	0.07	44,44,44,44	0
84	MG	B	1963	1/1	0.91	0.20	59,59,59,59	0
84	MG	AS	3667	1/1	0.91	0.10	36,36,36,36	0
84	MG	AS	3834	1/1	0.91	0.25	30,30,30,30	0
84	MG	AT	202	1/1	0.91	0.30	47,47,47,47	0
84	MG	AS	3668	1/1	0.91	0.12	41,41,41,41	0
84	MG	B	1964	1/1	0.91	0.06	55,55,55,55	0
84	MG	AS	3507	1/1	0.91	0.37	48,48,48,48	0
84	MG	1	3708	1/1	0.91	0.23	40,40,40,40	0
84	MG	1	3935	1/1	0.91	0.22	60,60,60,60	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	4026	1/1	0.91	0.12	42,42,42,42	0
84	MG	AS	3513	1/1	0.91	0.20	40,40,40,40	0
84	MG	B	1976	1/1	0.91	0.11	40,40,40,40	0
84	MG	AT	212	1/1	0.91	0.20	44,44,44,44	0
84	MG	CM	1953	1/1	0.91	0.28	42,42,42,42	0
84	MG	AS	3515	1/1	0.91	0.33	46,46,46,46	0
84	MG	1	3937	1/1	0.91	0.17	70,70,70,70	0
84	MG	AS	3680	1/1	0.91	0.13	49,49,49,49	0
84	MG	1	3711	1/1	0.91	0.10	31,31,31,31	0
84	MG	1	3561	1/1	0.91	0.20	43,43,43,43	0
84	MG	1	4031	1/1	0.91	0.08	43,43,43,43	0
84	MG	AW	302	1/1	0.91	0.27	42,42,42,42	0
84	MG	CM	1964	1/1	0.91	0.11	49,49,49,49	0
84	MG	AX	1300	1/1	0.91	0.30	36,36,36,36	0
84	MG	1	3501	1/1	0.91	0.14	28,28,28,28	0
84	MG	BB	301	1/1	0.91	0.12	37,37,37,37	0
84	MG	1	3765	1/1	0.91	0.16	33,33,33,33	0
84	MG	BB	304	1/1	0.91	0.08	40,40,40,40	0
84	MG	1	3953	1/1	0.91	0.12	38,38,38,38	0
84	MG	BB	306	1/1	0.91	0.15	42,42,42,42	0
84	MG	BE	301	1/1	0.91	0.17	37,37,37,37	0
84	MG	AS	3540	1/1	0.91	0.30	47,47,47,47	0
84	MG	1	3767	1/1	0.91	0.27	61,61,61,61	0
84	MG	B	1991	1/1	0.91	0.13	38,38,38,38	0
84	MG	AC	102	1/1	0.91	0.07	42,42,42,42	0
84	MG	1	3425	1/1	0.91	0.30	27,27,27,27	0
84	MG	CQ	302	1/1	0.91	0.08	41,41,41,41	0
84	MG	BJ	303	1/1	0.91	0.24	41,41,41,41	0
84	MG	1	4037	1/1	0.91	0.42	30,30,30,30	0
84	MG	B	1995	1/1	0.91	0.07	41,41,41,41	0
84	MG	AS	3549	1/1	0.91	0.11	40,40,40,40	0
84	MG	1	3627	1/1	0.91	0.21	40,40,40,40	0
84	MG	1	3895	1/1	0.91	0.18	36,36,36,36	0
84	MG	1	3774	1/1	0.91	0.14	44,44,44,44	0
84	MG	AS	3557	1/1	0.91	0.28	46,46,46,46	0
84	MG	BZ	204	1/1	0.91	0.20	43,43,43,43	0
84	MG	CA	201	1/1	0.91	0.12	51,51,51,51	0
84	MG	CJ	202	1/1	0.91	0.21	55,55,55,55	0
84	MG	1	3544	1/1	0.91	0.12	47,47,47,47	0
84	MG	1	3505	1/1	0.91	0.23	32,32,32,32	0
84	MG	AS	3717	1/1	0.91	0.12	39,39,39,39	0
84	MG	K	302	1/1	0.91	0.15	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AJ	101	1/1	0.91	0.14	68,68,68,68	0
84	MG	AS	3724	1/1	0.91	0.11	38,38,38,38	0
85	ZN	DS	201	1/1	0.91	0.11	208,208,208,208	0
84	MG	1	4001	1/1	0.92	0.16	43,43,43,43	0
84	MG	1	3472	1/1	0.92	0.26	27,27,27,27	0
84	MG	1	3615	1/1	0.92	0.17	40,40,40,40	0
84	MG	AS	3562	1/1	0.92	0.15	50,50,50,50	0
84	MG	w	302	1/1	0.92	0.15	53,53,53,53	0
84	MG	1	3502	1/1	0.92	0.27	46,46,46,46	0
84	MG	1	3845	1/1	0.92	0.16	44,44,44,44	0
84	MG	AS	3570	1/1	0.92	0.07	29,29,29,29	0
84	MG	AS	3571	1/1	0.92	0.15	61,61,61,61	0
84	MG	y	201	1/1	0.92	0.14	43,43,43,43	0
84	MG	1	4012	1/1	0.92	0.34	47,47,47,47	0
84	MG	AS	3576	1/1	0.92	0.12	46,46,46,46	0
84	MG	AS	3577	1/1	0.92	0.27	45,45,45,45	0
84	MG	1	3617	1/1	0.92	0.15	40,40,40,40	0
84	MG	1	3718	1/1	0.92	0.11	43,43,43,43	0
84	MG	CM	1825	1/1	0.92	0.17	34,34,34,34	0
84	MG	AS	3744	1/1	0.92	0.07	55,55,55,55	0
84	MG	1	3848	1/1	0.92	0.43	55,55,55,55	0
84	MG	1	3456	1/1	0.92	0.28	19,19,19,19	0
84	MG	1	3535	1/1	0.92	0.15	25,25,25,25	0
84	MG	1	3476	1/1	0.92	0.25	27,27,27,27	0
84	MG	Z	202	1/1	0.92	0.36	55,55,55,55	0
84	MG	1	3459	1/1	0.92	0.32	27,27,27,27	0
84	MG	AS	3588	1/1	0.92	0.13	43,43,43,43	0
84	MG	1	3478	1/1	0.92	0.28	31,31,31,31	0
84	MG	AS	3757	1/1	0.92	0.13	49,49,49,49	0
84	MG	1	3587	1/1	0.92	0.24	41,41,41,41	0
84	MG	1	4025	1/1	0.92	0.13	40,40,40,40	0
84	MG	1	3588	1/1	0.92	0.24	31,31,31,31	0
84	MG	1	3509	1/1	0.92	0.28	28,28,28,28	0
84	MG	AS	3406	1/1	0.92	0.51	32,32,32,32	0
84	MG	AS	3408	1/1	0.92	0.09	43,43,43,43	0
84	MG	AS	3410	1/1	0.92	0.35	32,32,32,32	0
84	MG	AS	3768	1/1	0.92	0.15	39,39,39,39	0
84	MG	AS	3416	1/1	0.92	0.30	22,22,22,22	0
84	MG	1	3591	1/1	0.92	0.31	54,54,54,54	0
84	MG	AS	3771	1/1	0.92	0.19	42,42,42,42	0
84	MG	1	3636	1/1	0.92	0.11	33,33,33,33	0
84	MG	AS	3773	1/1	0.92	0.12	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	CM	1859	1/1	0.92	0.11	40,40,40,40	0
84	MG	1	3936	1/1	0.92	0.17	70,70,70,70	0
84	MG	AG	201	1/1	0.92	0.10	57,57,57,57	0
84	MG	AS	3606	1/1	0.92	0.12	59,59,59,59	0
84	MG	CM	1867	1/1	0.92	0.18	74,74,74,74	0
84	MG	1	3868	1/1	0.92	0.22	40,40,40,40	0
84	MG	B	1911	1/1	0.92	0.31	49,49,49,49	0
84	MG	1	3872	1/1	0.92	0.11	54,54,54,54	0
84	MG	AS	3434	1/1	0.92	0.29	39,39,39,39	0
84	MG	1	3424	1/1	0.92	0.15	40,40,40,40	0
84	MG	1	3481	1/1	0.92	0.27	34,34,34,34	0
84	MG	AP	202	1/1	0.92	0.25	33,33,33,33	0
84	MG	1	3945	1/1	0.92	0.14	40,40,40,40	0
84	MG	1	3443	1/1	0.92	0.21	37,37,37,37	0
84	MG	1	3951	1/1	0.92	0.11	40,40,40,40	0
84	MG	1	3952	1/1	0.92	0.18	44,44,44,44	0
84	MG	AS	3448	1/1	0.92	0.31	38,38,38,38	0
84	MG	1	3739	1/1	0.92	0.32	32,32,32,32	0
84	MG	AS	3451	1/1	0.92	0.31	51,51,51,51	0
84	MG	1	3740	1/1	0.92	0.19	53,53,53,53	0
84	MG	1	3556	1/1	0.92	0.28	46,46,46,46	0
84	MG	B	1812	1/1	0.92	0.21	61,61,61,61	0
84	MG	CM	1897	1/1	0.92	0.27	31,31,31,31	0
84	MG	AS	3810	1/1	0.92	0.21	42,42,42,42	0
84	MG	AS	3812	1/1	0.92	0.08	45,45,45,45	0
84	MG	3	212	1/1	0.92	0.13	60,60,60,60	0
84	MG	B	1931	1/1	0.92	0.14	47,47,47,47	0
84	MG	1	3956	1/1	0.92	0.07	42,42,42,42	0
84	MG	1	3957	1/1	0.92	0.12	44,44,44,44	0
84	MG	AS	3464	1/1	0.92	0.24	50,50,50,50	0
84	MG	B	1817	1/1	0.92	0.28	38,38,38,38	0
84	MG	AS	3824	1/1	0.92	0.16	48,48,48,48	0
84	MG	CM	1914	1/1	0.92	0.12	54,54,54,54	0
84	MG	1	3806	1/1	0.92	0.14	43,43,43,43	0
84	MG	AS	3469	1/1	0.92	0.16	37,37,37,37	0
84	MG	1	3744	1/1	0.92	0.17	47,47,47,47	0
84	MG	B	1823	1/1	0.92	0.28	36,36,36,36	0
84	MG	1	3414	1/1	0.92	0.35	29,29,29,29	0
84	MG	1	3885	1/1	0.92	0.22	47,47,47,47	0
84	MG	3	219	1/1	0.92	0.11	46,46,46,46	0
84	MG	AS	3482	1/1	0.92	0.20	32,32,32,32	0
84	MG	1	3965	1/1	0.92	0.07	30,30,30,30	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3746	1/1	0.92	0.23	40,40,40,40	0
84	MG	1	3516	1/1	0.92	0.10	45,45,45,45	0
84	MG	CM	1932	1/1	0.92	0.16	49,49,49,49	0
84	MG	AS	3489	1/1	0.92	0.24	40,40,40,40	0
84	MG	AT	205	1/1	0.92	0.11	54,54,54,54	0
84	MG	AS	3665	1/1	0.92	0.36	51,51,51,51	0
84	MG	B	1830	1/1	0.92	0.26	34,34,34,34	0
84	MG	1	3436	1/1	0.92	0.28	33,33,33,33	0
84	MG	CM	1947	1/1	0.92	0.37	44,44,44,44	0
84	MG	4	206	1/1	0.92	0.20	30,30,30,30	0
84	MG	1	3970	1/1	0.92	0.25	46,46,46,46	0
84	MG	1	3649	1/1	0.92	0.13	65,65,65,65	0
84	MG	1	3819	1/1	0.92	0.07	32,32,32,32	0
84	MG	1	3430	1/1	0.92	0.27	34,34,34,34	0
84	MG	AT	214	1/1	0.92	0.14	39,39,39,39	0
84	MG	1	3977	1/1	0.92	0.14	45,45,45,45	0
84	MG	1	3562	1/1	0.92	0.20	37,37,37,37	0
84	MG	AS	3504	1/1	0.92	0.10	55,55,55,55	0
84	MG	1	3899	1/1	0.92	0.07	50,50,50,50	0
84	MG	4	215	1/1	0.92	0.16	30,30,30,30	0
84	MG	1	3823	1/1	0.92	0.10	29,29,29,29	0
84	MG	B	1965	1/1	0.92	0.17	46,46,46,46	0
84	MG	1	3447	1/1	0.92	0.25	25,25,25,25	0
84	MG	1	3468	1/1	0.92	0.27	38,38,38,38	0
84	MG	B	1969	1/1	0.92	0.08	46,46,46,46	0
84	MG	BB	303	1/1	0.92	0.07	44,44,44,44	0
84	MG	CM	1971	1/1	0.92	0.13	42,42,42,42	0
84	MG	1	3440	1/1	0.92	0.26	40,40,40,40	0
84	MG	AS	3520	1/1	0.92	0.27	51,51,51,51	0
84	MG	AS	3523	1/1	0.92	0.10	27,27,27,27	0
84	MG	B	1975	1/1	0.92	0.08	45,45,45,45	0
84	MG	1	3470	1/1	0.92	0.19	26,26,26,26	0
84	MG	1	3569	1/1	0.92	0.13	39,39,39,39	0
84	MG	1	3761	1/1	0.92	0.28	24,24,24,24	0
84	MG	o	301	1/1	0.92	0.20	38,38,38,38	0
84	MG	AS	3699	1/1	0.92	0.14	50,50,50,50	0
84	MG	AS	3700	1/1	0.92	0.07	37,37,37,37	0
84	MG	1	3992	1/1	0.92	0.11	40,40,40,40	0
84	MG	AS	3703	1/1	0.92	0.07	41,41,41,41	0
84	MG	o	303	1/1	0.92	0.20	34,34,34,34	0
84	MG	CY	201	1/1	0.92	0.15	49,49,49,49	0
84	MG	B	1982	1/1	0.92	0.12	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	B	1983	1/1	0.92	0.06	56,56,56,56	0
84	MG	AS	3708	1/1	0.92	0.06	56,56,56,56	0
84	MG	B	1984	1/1	0.92	0.09	62,62,62,62	0
84	MG	1	3836	1/1	0.92	0.17	38,38,38,38	0
84	MG	1	3573	1/1	0.92	0.13	50,50,50,50	0
84	MG	CA	202	1/1	0.92	0.07	46,46,46,46	0
84	MG	B	1987	1/1	0.92	0.07	46,46,46,46	0
84	MG	1	3527	1/1	0.92	0.22	38,38,38,38	0
84	MG	1	3996	1/1	0.92	0.24	40,40,40,40	0
84	MG	B	1869	1/1	0.92	0.18	72,72,72,72	0
84	MG	AS	3721	1/1	0.92	0.10	47,47,47,47	0
84	MG	AS	3723	1/1	0.92	0.24	47,47,47,47	0
84	MG	1	3453	1/1	0.92	0.33	26,26,26,26	0
84	MG	v	301	1/1	0.92	0.08	36,36,36,36	0
84	MG	CM	1829	1/1	0.93	0.27	35,35,35,35	0
84	MG	1	3661	1/1	0.93	0.20	39,39,39,39	0
84	MG	CM	1831	1/1	0.93	0.17	51,51,51,51	0
84	MG	AF	201	1/1	0.93	0.07	41,41,41,41	0
84	MG	AS	3781	1/1	0.93	0.12	42,42,42,42	0
84	MG	1	3732	1/1	0.93	0.16	32,32,32,32	0
84	MG	1	3603	1/1	0.93	0.08	52,52,52,52	0
84	MG	1	3551	1/1	0.93	0.28	52,52,52,52	0
84	MG	AS	3786	1/1	0.93	0.17	44,44,44,44	0
84	MG	1	3552	1/1	0.93	0.08	56,56,56,56	0
84	MG	1	3932	1/1	0.93	0.16	43,43,43,43	0
84	MG	1	3437	1/1	0.93	0.21	26,26,26,26	0
84	MG	AO	101	1/1	0.93	0.21	43,43,43,43	0
84	MG	1	3474	1/1	0.93	0.19	31,31,31,31	0
84	MG	B	1988	1/1	0.93	0.09	43,43,43,43	0
84	MG	B	1989	1/1	0.93	0.07	42,42,42,42	0
84	MG	1	3831	1/1	0.93	0.19	44,44,44,44	0
84	MG	AS	3656	1/1	0.93	0.07	35,35,35,35	0
84	MG	1	3458	1/1	0.93	0.21	35,35,35,35	0
84	MG	AS	3659	1/1	0.93	0.27	45,45,45,45	0
84	MG	B	1896	1/1	0.93	0.10	58,58,58,58	0
84	MG	AS	3806	1/1	0.93	0.08	34,34,34,34	0
83	3K5	1	3401	57/57	0.93	0.14	40,55,74,85	0
84	MG	1	3888	1/1	0.93	0.13	44,44,44,44	0
84	MG	1	3939	1/1	0.93	0.10	35,35,35,35	0
84	MG	AS	3517	1/1	0.93	0.20	34,34,34,34	0
84	MG	AS	3811	1/1	0.93	0.04	38,38,38,38	0
84	MG	B	1806	1/1	0.93	0.14	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3521	1/1	0.93	0.39	43,43,43,43	0
84	MG	1	3941	1/1	0.93	0.10	34,34,34,34	0
84	MG	1	3891	1/1	0.93	0.07	57,57,57,57	0
84	MG	B	1811	1/1	0.93	0.20	39,39,39,39	0
84	MG	1	4006	1/1	0.93	0.07	44,44,44,44	0
84	MG	4	214	1/1	0.93	0.09	45,45,45,45	0
84	MG	1	4009	1/1	0.93	0.08	43,43,43,43	0
84	MG	1	3943	1/1	0.93	0.09	36,36,36,36	0
84	MG	1	4011	1/1	0.93	0.09	37,37,37,37	0
84	MG	CM	1882	1/1	0.93	0.20	42,42,42,42	0
84	MG	1	3493	1/1	0.93	0.08	41,41,41,41	0
84	MG	B	1820	1/1	0.93	0.39	48,48,48,48	0
84	MG	1	3560	1/1	0.93	0.12	27,27,27,27	0
84	MG	1	4015	1/1	0.93	0.08	38,38,38,38	0
84	MG	1	3787	1/1	0.93	0.20	38,38,38,38	0
84	MG	1	3520	1/1	0.93	0.10	25,25,25,25	0
84	MG	1	3789	1/1	0.93	0.16	39,39,39,39	0
84	MG	1	3521	1/1	0.93	0.11	32,32,32,32	0
84	MG	1	3705	1/1	0.93	0.17	47,47,47,47	0
84	MG	1	3707	1/1	0.93	0.29	40,40,40,40	0
84	MG	1	3749	1/1	0.93	0.27	39,39,39,39	0
84	MG	CM	1902	1/1	0.93	0.32	50,50,50,50	0
84	MG	CM	1903	1/1	0.93	0.20	51,51,51,51	0
84	MG	AS	3691	1/1	0.93	0.09	47,47,47,47	0
84	MG	B	1927	1/1	0.93	0.07	48,48,48,48	0
84	MG	1	3540	1/1	0.93	0.17	35,35,35,35	0
84	MG	CM	1910	1/1	0.93	0.07	53,53,53,53	0
84	MG	1	3541	1/1	0.93	0.23	30,30,30,30	0
84	MG	AS	3411	1/1	0.93	0.05	29,29,29,29	0
84	MG	AS	3563	1/1	0.93	0.10	47,47,47,47	0
84	MG	AS	3701	1/1	0.93	0.09	42,42,42,42	0
84	MG	AS	3564	1/1	0.93	0.25	50,50,50,50	0
84	MG	u	201	1/1	0.93	0.09	37,37,37,37	0
84	MG	B	1835	1/1	0.93	0.28	43,43,43,43	0
84	MG	1	3506	1/1	0.93	0.34	43,43,43,43	0
84	MG	B	1837	1/1	0.93	0.21	38,38,38,38	0
84	MG	AS	3424	1/1	0.93	0.26	31,31,31,31	0
84	MG	1	3961	1/1	0.93	0.06	41,41,41,41	0
84	MG	CM	1922	1/1	0.93	0.07	43,43,43,43	0
84	MG	1	4028	1/1	0.93	0.09	46,46,46,46	0
84	MG	AW	303	1/1	0.93	0.23	52,52,52,52	0
84	MG	CM	1926	1/1	0.93	0.16	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AW	304	1/1	0.93	0.09	62,62,62,62	0
84	MG	1	3962	1/1	0.93	0.09	38,38,38,38	0
84	MG	CM	1930	1/1	0.93	0.24	45,45,45,45	0
84	MG	CM	1931	1/1	0.93	0.11	43,43,43,43	0
84	MG	AS	3713	1/1	0.93	0.14	54,54,54,54	0
84	MG	CM	1933	1/1	0.93	0.09	45,45,45,45	0
84	MG	AS	3714	1/1	0.93	0.07	46,46,46,46	0
84	MG	1	3851	1/1	0.93	0.22	46,46,46,46	0
84	MG	1	3406	1/1	0.93	0.30	33,33,33,33	0
84	MG	AS	3435	1/1	0.93	0.14	33,33,33,33	0
84	MG	1	3854	1/1	0.93	0.06	29,29,29,29	0
84	MG	AS	3720	1/1	0.93	0.09	46,46,46,46	0
84	MG	1	3717	1/1	0.93	0.18	43,43,43,43	0
84	MG	B	1848	1/1	0.93	0.10	51,51,51,51	0
84	MG	B	1944	1/1	0.93	0.11	82,82,82,82	0
84	MG	1	3858	1/1	0.93	0.14	45,45,45,45	0
84	MG	AS	3445	1/1	0.93	0.33	47,47,47,47	0
84	MG	B	1850	1/1	0.93	0.19	77,77,77,77	0
84	MG	BJ	301	1/1	0.93	0.09	30,30,30,30	0
84	MG	CM	1956	1/1	0.93	0.29	47,47,47,47	0
84	MG	1	3804	1/1	0.93	0.15	48,48,48,48	0
84	MG	BK	201	1/1	0.93	0.29	36,36,36,36	0
84	MG	B	1948	1/1	0.93	0.09	61,61,61,61	0
84	MG	AS	3449	1/1	0.93	0.13	27,27,27,27	0
84	MG	1	3451	1/1	0.93	0.27	24,24,24,24	0
84	MG	1	3683	1/1	0.93	0.42	72,72,72,72	0
84	MG	B	1952	1/1	0.93	0.09	42,42,42,42	0
84	MG	1	3972	1/1	0.93	0.20	49,49,49,49	0
84	MG	3	203	1/1	0.93	0.29	45,45,45,45	0
84	MG	CM	1969	1/1	0.93	0.04	43,43,43,43	0
84	MG	1	3973	1/1	0.93	0.19	43,43,43,43	0
84	MG	AS	3457	1/1	0.93	0.29	32,32,32,32	0
84	MG	1	3463	1/1	0.93	0.11	33,33,33,33	0
84	MG	AS	3459	1/1	0.93	0.24	34,34,34,34	0
84	MG	B	1957	1/1	0.93	0.16	55,55,55,55	0
84	MG	6	202	1/1	0.93	0.08	31,31,31,31	0
84	MG	B	1959	1/1	0.93	0.22	52,52,52,52	0
84	MG	AS	3466	1/1	0.93	0.21	45,45,45,45	0
84	MG	AS	3610	1/1	0.93	0.08	41,41,41,41	0
84	MG	CM	1803	1/1	0.93	0.15	29,29,29,29	0
84	MG	B	1863	1/1	0.93	0.09	87,87,87,87	0
84	MG	CO	301	1/1	0.93	0.22	42,42,42,42	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	AS	3750	1/1	0.93	0.14	41,41,41,41	0
84	MG	3	209	1/1	0.93	0.06	43,43,43,43	0
84	MG	AS	3613	1/1	0.93	0.08	44,44,44,44	0
84	MG	B	1865	1/1	0.93	0.31	39,39,39,39	0
84	MG	1	3725	1/1	0.93	0.23	44,44,44,44	0
84	MG	AS	3471	1/1	0.93	0.17	30,30,30,30	0
84	MG	1	3547	1/1	0.93	0.25	35,35,35,35	0
84	MG	1	3626	1/1	0.93	0.12	37,37,37,37	0
84	MG	AS	3478	1/1	0.93	0.09	40,40,40,40	0
84	MG	1	3441	1/1	0.93	0.29	36,36,36,36	0
84	MG	1	3578	1/1	0.93	0.16	40,40,40,40	0
84	MG	B	1871	1/1	0.93	0.20	75,75,75,75	0
84	MG	B	1973	1/1	0.93	0.06	44,44,44,44	0
84	MG	AS	3629	1/1	0.93	0.15	41,41,41,41	0
84	MG	AD	202	1/1	0.93	0.11	50,50,50,50	0
84	MG	AS	3485	1/1	0.93	0.34	35,35,35,35	0
84	MG	AS	3632	1/1	0.93	0.16	40,40,40,40	0
84	MG	1	3820	1/1	0.93	0.23	39,39,39,39	0
84	MG	B	1874	1/1	0.93	0.21	38,38,38,38	0
84	MG	AS	3774	1/1	0.93	0.08	59,59,59,59	0
84	MG	AS	3541	1/1	0.94	0.25	37,37,37,37	0
84	MG	1	3950	1/1	0.94	0.12	49,49,49,49	0
84	MG	1	3658	1/1	0.94	0.16	27,27,27,27	0
84	MG	1	3887	1/1	0.94	0.33	44,44,44,44	0
84	MG	AS	3545	1/1	0.94	0.31	39,39,39,39	0
84	MG	1	3775	1/1	0.94	0.11	38,38,38,38	0
84	MG	AS	3813	1/1	0.94	0.06	51,51,51,51	0
84	MG	1	4023	1/1	0.94	0.19	48,48,48,48	0
84	MG	1	3776	1/1	0.94	0.14	35,35,35,35	0
84	MG	1	3537	1/1	0.94	0.17	42,42,42,42	0
84	MG	B	1937	1/1	0.94	0.15	46,46,46,46	0
84	MG	1	3828	1/1	0.94	0.19	40,40,40,40	0
84	MG	1	3510	1/1	0.94	0.23	22,22,22,22	0
84	MG	CM	1863	1/1	0.94	0.24	58,58,58,58	0
84	MG	AS	3822	1/1	0.94	0.15	47,47,47,47	0
84	MG	AS	3556	1/1	0.94	0.20	46,46,46,46	0
84	MG	w	304	1/1	0.94	0.08	40,40,40,40	0
84	MG	1	3457	1/1	0.94	0.16	26,26,26,26	0
84	MG	x	202	1/1	0.94	0.14	38,38,38,38	0
84	MG	AS	3432	1/1	0.94	0.23	32,32,32,32	0
84	MG	CM	1874	1/1	0.94	0.32	42,42,42,42	0
84	MG	1	3488	1/1	0.94	0.07	41,41,41,41	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3450	1/1	0.94	0.23	33,33,33,33	0
84	MG	B	1853	1/1	0.94	0.06	58,58,58,58	0
84	MG	AS	3566	1/1	0.94	0.36	44,44,44,44	0
84	MG	AS	3695	1/1	0.94	0.28	34,34,34,34	0
84	MG	AT	201	1/1	0.94	0.22	24,24,24,24	0
84	MG	CM	1881	1/1	0.94	0.15	43,43,43,43	0
84	MG	AS	3696	1/1	0.94	0.10	41,41,41,41	0
84	MG	AS	3567	1/1	0.94	0.19	23,23,23,23	0
84	MG	CM	1884	1/1	0.94	0.13	43,43,43,43	0
84	MG	1	3417	1/1	0.94	0.15	45,45,45,45	0
84	MG	CM	1887	1/1	0.94	0.22	74,74,74,74	0
84	MG	1	3473	1/1	0.94	0.33	19,19,19,19	0
84	MG	B	1857	1/1	0.94	0.10	47,47,47,47	0
84	MG	AS	3441	1/1	0.94	0.14	42,42,42,42	0
84	MG	1	3639	1/1	0.94	0.17	26,26,26,26	0
84	MG	AS	3573	1/1	0.94	0.07	41,41,41,41	0
84	MG	CM	1896	1/1	0.94	0.25	36,36,36,36	0
84	MG	B	1859	1/1	0.94	0.11	71,71,71,71	0
84	MG	1	3840	1/1	0.94	0.07	28,28,28,28	0
84	MG	CM	1899	1/1	0.94	0.12	33,33,33,33	0
84	MG	0	203	1/1	0.94	0.09	50,50,50,50	0
84	MG	1	3903	1/1	0.94	0.18	43,43,43,43	0
84	MG	1	3402	1/1	0.94	0.19	19,19,19,19	0
84	MG	AU	201	1/1	0.94	0.24	28,28,28,28	0
84	MG	1	3668	1/1	0.94	0.11	45,45,45,45	0
84	MG	3	201	1/1	0.94	0.21	23,23,23,23	0
84	MG	CM	1907	1/1	0.94	0.07	52,52,52,52	0
84	MG	CM	1908	1/1	0.94	0.21	49,49,49,49	0
84	MG	1	3642	1/1	0.94	0.29	33,33,33,33	0
84	MG	AS	3584	1/1	0.94	0.18	36,36,36,36	0
84	MG	1	3741	1/1	0.94	0.19	29,29,29,29	0
84	MG	1	3790	1/1	0.94	0.40	41,41,41,41	0
84	MG	AC	101	1/1	0.94	0.09	38,38,38,38	0
84	MG	3	207	1/1	0.94	0.07	39,39,39,39	0
84	MG	1	3566	1/1	0.94	0.13	22,22,22,22	0
84	MG	1	3792	1/1	0.94	0.26	34,34,34,34	0
84	MG	1	3793	1/1	0.94	0.17	33,33,33,33	0
84	MG	1	3671	1/1	0.94	0.06	44,44,44,44	0
84	MG	B	1970	1/1	0.94	0.21	47,47,47,47	0
84	MG	AS	3465	1/1	0.94	0.19	37,37,37,37	0
84	MG	1	3518	1/1	0.94	0.14	28,28,28,28	0
84	MG	1	3706	1/1	0.94	0.20	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	B	1974	1/1	0.94	0.15	56,56,56,56	0
84	MG	B	1878	1/1	0.94	0.30	38,38,38,38	0
84	MG	CM	1925	1/1	0.94	0.14	45,45,45,45	0
84	MG	1	3919	1/1	0.94	0.12	41,41,41,41	0
84	MG	1	3981	1/1	0.94	0.15	41,41,41,41	0
84	MG	B	1881	1/1	0.94	0.18	64,64,64,64	0
84	MG	AS	3605	1/1	0.94	0.13	40,40,40,40	0
84	MG	1	3590	1/1	0.94	0.23	50,50,50,50	0
84	MG	AS	3477	1/1	0.94	0.09	27,27,27,27	0
84	MG	BJ	304	1/1	0.94	0.11	50,50,50,50	0
84	MG	1	3855	1/1	0.94	0.09	39,39,39,39	0
84	MG	CM	1938	1/1	0.94	0.07	33,33,33,33	0
84	MG	1	3519	1/1	0.94	0.30	57,57,57,57	0
84	MG	B	1885	1/1	0.94	0.15	60,60,60,60	0
84	MG	BO	202	1/1	0.94	0.26	50,50,50,50	0
84	MG	AM	101	1/1	0.94	0.36	45,45,45,45	0
84	MG	CM	1946	1/1	0.94	0.07	40,40,40,40	0
84	MG	1	3709	1/1	0.94	0.16	39,39,39,39	0
84	MG	1	3710	1/1	0.94	0.10	32,32,32,32	0
84	MG	BZ	201	1/1	0.94	0.18	47,47,47,47	0
84	MG	AS	3746	1/1	0.94	0.07	40,40,40,40	0
84	MG	CM	1951	1/1	0.94	0.16	41,41,41,41	0
84	MG	AS	3616	1/1	0.94	0.29	44,44,44,44	0
84	MG	1	3531	1/1	0.94	0.28	26,26,26,26	0
84	MG	1	3990	1/1	0.94	0.27	45,45,45,45	0
84	MG	4	204	1/1	0.94	0.20	32,32,32,32	0
84	MG	1	3991	1/1	0.94	0.42	47,47,47,47	0
84	MG	1	3532	1/1	0.94	0.27	32,32,32,32	0
84	MG	1	3805	1/1	0.94	0.19	52,52,52,52	0
84	MG	CM	1960	1/1	0.94	0.08	50,50,50,50	0
84	MG	1	3679	1/1	0.94	0.23	30,30,30,30	0
84	MG	1	3554	1/1	0.94	0.09	36,36,36,36	0
84	MG	1	3595	1/1	0.94	0.23	31,31,31,31	0
84	MG	1	3719	1/1	0.94	0.08	41,41,41,41	0
84	MG	B	1996	1/1	0.94	0.06	40,40,40,40	0
84	MG	CM	1805	1/1	0.94	0.28	34,34,34,34	0
84	MG	D	301	1/1	0.94	0.15	44,44,44,44	0
84	MG	1	4000	1/1	0.94	0.11	35,35,35,35	0
84	MG	1	3870	1/1	0.94	0.16	51,51,51,51	0
84	MG	1	3810	1/1	0.94	0.13	34,34,34,34	0
84	MG	1	3812	1/1	0.94	0.15	48,48,48,48	0
84	MG	AS	3510	1/1	0.94	0.34	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3813	1/1	0.94	0.09	62,62,62,62	0
84	MG	1	3454	1/1	0.94	0.06	23,23,23,23	0
84	MG	CM	1977	1/1	0.94	0.15	56,56,56,56	0
84	MG	AS	3639	1/1	0.94	0.14	49,49,49,49	0
84	MG	1	4007	1/1	0.94	0.44	38,38,38,38	0
84	MG	1	4008	1/1	0.94	0.07	47,47,47,47	0
84	MG	CM	1982	1/1	0.94	0.08	42,42,42,42	0
84	MG	B	1914	1/1	0.94	0.16	46,46,46,46	0
84	MG	1	3576	1/1	0.94	0.06	29,29,29,29	0
84	MG	AS	3518	1/1	0.94	0.26	28,28,28,28	0
84	MG	CQ	301	1/1	0.94	0.26	40,40,40,40	0
84	MG	AS	3519	1/1	0.94	0.17	38,38,38,38	0
84	MG	1	3764	1/1	0.94	0.11	51,51,51,51	0
84	MG	AS	3652	1/1	0.94	0.13	44,44,44,44	0
84	MG	1	3818	1/1	0.94	0.13	36,36,36,36	0
84	MG	AS	3654	1/1	0.94	0.13	33,33,33,33	0
84	MG	k	406	1/1	0.94	0.07	33,33,33,33	0
84	MG	1	3724	1/1	0.94	0.13	33,33,33,33	0
84	MG	Z	203	1/1	0.94	0.38	66,66,66,66	0
84	MG	AS	3531	1/1	0.94	0.15	38,38,38,38	0
84	MG	AS	3532	1/1	0.94	0.19	59,59,59,59	0
84	MG	1	3623	1/1	0.94	0.20	44,44,44,44	0
84	MG	1	3577	1/1	0.94	0.26	28,28,28,28	0
84	MG	AS	3798	1/1	0.94	0.15	37,37,37,37	0
85	ZN	AN	101	1/1	0.94	0.13	142,142,142,142	0
84	MG	AS	3663	1/1	0.94	0.06	94,94,94,94	0
84	MG	1	3883	1/1	0.94	0.17	42,42,42,42	0
84	MG	1	3948	1/1	0.94	0.10	38,38,38,38	0
84	MG	r	301	1/1	0.94	0.16	34,34,34,34	0
84	MG	1	3428	1/1	0.94	0.29	27,27,27,27	0
84	MG	CM	1843	1/1	0.94	0.25	42,42,42,42	0
84	MG	CM	1844	1/1	0.94	0.16	41,41,41,41	0
84	MG	CM	1894	1/1	0.95	0.23	43,43,43,43	0
84	MG	BN	203	1/1	0.95	0.10	39,39,39,39	0
84	MG	AS	3783	1/1	0.95	0.07	46,46,46,46	0
84	MG	1	3763	1/1	0.95	0.07	30,30,30,30	0
84	MG	1	3546	1/1	0.95	0.23	44,44,44,44	0
84	MG	AS	3689	1/1	0.95	0.24	38,38,38,38	0
84	MG	AS	3604	1/1	0.95	0.18	26,26,26,26	0
84	MG	B	1888	1/1	0.95	0.19	46,46,46,46	0
84	MG	AS	3527	1/1	0.95	0.13	63,63,63,63	0
84	MG	AS	3791	1/1	0.95	0.10	47,47,47,47	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	CM	1904	1/1	0.95	0.25	44,44,44,44	0
84	MG	AS	3607	1/1	0.95	0.20	37,37,37,37	0
84	MG	B	1889	1/1	0.95	0.22	36,36,36,36	0
84	MG	AS	3529	1/1	0.95	0.33	52,52,52,52	0
84	MG	1	3455	1/1	0.95	0.12	29,29,29,29	0
84	MG	AS	3796	1/1	0.95	0.24	43,43,43,43	0
84	MG	G	301	1/1	0.95	0.15	54,54,54,54	0
84	MG	o	304	1/1	0.95	0.16	41,41,41,41	0
84	MG	1	3766	1/1	0.95	0.20	45,45,45,45	0
84	MG	B	1894	1/1	0.95	0.19	40,40,40,40	0
84	MG	AS	3615	1/1	0.95	0.15	47,47,47,47	0
84	MG	1	4005	1/1	0.95	0.13	42,42,42,42	0
84	MG	1	3549	1/1	0.95	0.15	40,40,40,40	0
84	MG	AS	3538	1/1	0.95	0.16	42,42,42,42	0
84	MG	B	1844	1/1	0.95	0.27	41,41,41,41	0
84	MG	AS	3462	1/1	0.95	0.16	31,31,31,31	0
84	MG	1	3565	1/1	0.95	0.23	26,26,26,26	0
84	MG	1	3713	1/1	0.95	0.28	32,32,32,32	0
84	MG	AS	3625	1/1	0.95	0.12	65,65,65,65	0
84	MG	1	3966	1/1	0.95	0.06	33,33,33,33	0
84	MG	AS	3814	1/1	0.95	0.06	47,47,47,47	0
84	MG	1	3771	1/1	0.95	0.13	38,38,38,38	0
84	MG	CM	1816	1/1	0.95	0.28	31,31,31,31	0
84	MG	CM	1927	1/1	0.95	0.12	33,33,33,33	0
84	MG	1	3884	1/1	0.95	0.15	49,49,49,49	0
84	MG	CM	1818	1/1	0.95	0.18	29,29,29,29	0
84	MG	AS	3817	1/1	0.95	0.06	42,42,42,42	0
84	MG	B	1960	1/1	0.95	0.27	41,41,41,41	0
84	MG	i	301	1/1	0.95	0.06	40,40,40,40	0
84	MG	B	1801	1/1	0.95	0.21	38,38,38,38	0
84	MG	1	3772	1/1	0.95	0.06	34,34,34,34	0
84	MG	CM	1936	1/1	0.95	0.13	46,46,46,46	0
84	MG	CM	1937	1/1	0.95	0.14	49,49,49,49	0
84	MG	AS	3722	1/1	0.95	0.07	59,59,59,59	0
84	MG	1	3773	1/1	0.95	0.08	46,46,46,46	0
84	MG	AS	3475	1/1	0.95	0.14	36,36,36,36	0
84	MG	AS	3552	1/1	0.95	0.23	37,37,37,37	0
84	MG	1	3534	1/1	0.95	0.20	30,30,30,30	0
84	MG	CM	1944	1/1	0.95	0.08	55,55,55,55	0
84	MG	1	3409	1/1	0.95	0.26	22,22,22,22	0
84	MG	1	3605	1/1	0.95	0.10	44,44,44,44	0
84	MG	B	1807	1/1	0.95	0.08	82,82,82,82	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3407	1/1	0.95	0.22	23,23,23,23	0
84	MG	AS	3731	1/1	0.95	0.08	49,49,49,49	0
84	MG	AS	3560	1/1	0.95	0.10	32,32,32,32	0
84	MG	AS	3481	1/1	0.95	0.11	41,41,41,41	0
84	MG	1	3811	1/1	0.95	0.04	43,43,43,43	0
84	MG	1	3536	1/1	0.95	0.21	34,34,34,34	0
84	MG	AS	3647	1/1	0.95	0.08	37,37,37,37	0
84	MG	1	3852	1/1	0.95	0.19	43,43,43,43	0
84	MG	CM	1841	1/1	0.95	0.18	49,49,49,49	0
84	MG	1	3692	1/1	0.95	0.06	59,59,59,59	0
84	MG	AS	3486	1/1	0.95	0.12	44,44,44,44	0
84	MG	1	3515	1/1	0.95	0.23	33,33,33,33	0
84	MG	AS	3488	1/1	0.95	0.20	36,36,36,36	0
84	MG	CM	1846	1/1	0.95	0.14	46,46,46,46	0
84	MG	CM	1847	1/1	0.95	0.16	45,45,45,45	0
84	MG	AS	3418	1/1	0.95	0.11	17,17,17,17	0
84	MG	AS	3490	1/1	0.95	0.17	39,39,39,39	0
84	MG	CM	1967	1/1	0.95	0.07	60,60,60,60	0
84	MG	1	3485	1/1	0.95	0.21	37,37,37,37	0
84	MG	AS	3420	1/1	0.95	0.17	50,50,50,50	0
84	MG	AS	3493	1/1	0.95	0.22	34,34,34,34	0
84	MG	1	3497	1/1	0.95	0.25	29,29,29,29	0
84	MG	AS	3496	1/1	0.95	0.07	31,31,31,31	0
84	MG	1	3857	1/1	0.95	0.12	29,29,29,29	0
84	MG	1	3631	1/1	0.95	0.09	23,23,23,23	0
84	MG	1	3408	1/1	0.95	0.16	22,22,22,22	0
84	MG	AU	207	1/1	0.95	0.06	40,40,40,40	0
84	MG	1	3752	1/1	0.95	0.19	37,37,37,37	0
84	MG	AS	3756	1/1	0.95	0.17	35,35,35,35	0
84	MG	CM	1865	1/1	0.95	0.24	51,51,51,51	0
84	MG	AS	3430	1/1	0.95	0.28	29,29,29,29	0
84	MG	1	3904	1/1	0.95	0.24	46,46,46,46	0
84	MG	1	3677	1/1	0.95	0.15	47,47,47,47	0
84	MG	6	203	1/1	0.95	0.08	39,39,39,39	0
84	MG	CP	301	1/1	0.95	0.23	38,38,38,38	0
84	MG	1	3420	1/1	0.95	0.17	42,42,42,42	0
84	MG	CM	1872	1/1	0.95	0.23	32,32,32,32	0
84	MG	AS	3508	1/1	0.95	0.27	29,29,29,29	0
84	MG	AS	3763	1/1	0.95	0.12	41,41,41,41	0
84	MG	1	3635	1/1	0.95	0.13	26,26,26,26	0
84	MG	1	3421	1/1	0.95	0.38	26,26,26,26	0
84	MG	AB	201	1/1	0.95	0.21	25,25,25,25	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	AS	3677	1/1	0.95	0.08	31,31,31,31	0
84	MG	AS	3678	1/1	0.95	0.35	29,29,29,29	0
84	MG	1	3731	1/1	0.95	0.10	34,34,34,34	0
84	MG	1	3490	1/1	0.95	0.11	50,50,50,50	0
84	MG	1	3579	1/1	0.95	0.11	55,55,55,55	0
84	MG	AS	3443	1/1	0.95	0.09	48,48,48,48	0
84	MG	AS	3516	1/1	0.95	0.30	35,35,35,35	0
84	MG	BJ	302	1/1	0.95	0.14	53,53,53,53	0
84	MG	CM	1886	1/1	0.95	0.13	53,53,53,53	0
84	MG	1	3760	1/1	0.95	0.21	33,33,33,33	0
84	MG	AS	3779	1/1	0.95	0.24	48,48,48,48	0
84	MG	1	3491	1/1	0.95	0.11	35,35,35,35	0
84	MG	1	3762	1/1	0.95	0.13	38,38,38,38	0
84	MG	CM	1891	1/1	0.95	0.09	54,54,54,54	0
84	MG	BN	202	1/1	0.95	0.08	37,37,37,37	0
84	MG	AS	3657	1/1	0.96	0.07	47,47,47,47	0
84	MG	1	3907	1/1	0.96	0.18	30,30,30,30	0
84	MG	AS	3505	1/1	0.96	0.16	63,63,63,63	0
84	MG	1	3651	1/1	0.96	0.20	39,39,39,39	0
84	MG	B	1846	1/1	0.96	0.19	36,36,36,36	0
84	MG	B	1890	1/1	0.96	0.08	37,37,37,37	0
84	MG	B	1942	1/1	0.96	0.29	49,49,49,49	0
84	MG	B	1847	1/1	0.96	0.18	41,41,41,41	0
84	MG	1	3405	1/1	0.96	0.37	33,33,33,33	0
84	MG	1	3832	1/1	0.96	0.16	36,36,36,36	0
84	MG	B	1997	1/1	0.96	0.08	48,48,48,48	0
84	MG	1	3747	1/1	0.96	0.16	43,43,43,43	0
84	MG	B	1895	1/1	0.96	0.09	52,52,52,52	0
84	MG	1	3834	1/1	0.96	0.08	35,35,35,35	0
84	MG	B	1810	1/1	0.96	0.12	21,21,21,21	0
84	MG	AS	3755	1/1	0.96	0.18	43,43,43,43	0
84	MG	B	1950	1/1	0.96	0.16	55,55,55,55	0
84	MG	1	3452	1/1	0.96	0.08	32,32,32,32	0
84	MG	AS	3453	1/1	0.96	0.25	33,33,33,33	0
84	MG	1	3596	1/1	0.96	0.20	32,32,32,32	0
84	MG	CM	1934	1/1	0.96	0.06	53,53,53,53	0
84	MG	AS	3522	1/1	0.96	0.25	31,31,31,31	0
84	MG	B	1900	1/1	0.96	0.18	63,63,63,63	0
84	MG	AS	3524	1/1	0.96	0.14	47,47,47,47	0
84	MG	AS	3525	1/1	0.96	0.12	65,65,65,65	0
84	MG	AS	3526	1/1	0.96	0.20	40,40,40,40	0
84	MG	1	3975	1/1	0.96	0.04	37,37,37,37	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	AS	3766	1/1	0.96	0.06	52,52,52,52	0
84	MG	AS	3767	1/1	0.96	0.10	53,53,53,53	0
84	MG	B	1856	1/1	0.96	0.13	38,38,38,38	0
84	MG	1	3641	1/1	0.96	0.25	29,29,29,29	0
84	MG	1	3946	1/1	0.96	0.12	35,35,35,35	0
84	MG	Y	201	1/1	0.96	0.06	30,30,30,30	0
84	MG	1	3889	1/1	0.96	0.13	36,36,36,36	0
84	MG	B	1818	1/1	0.96	0.19	36,36,36,36	0
84	MG	1	3890	1/1	0.96	0.06	27,27,27,27	0
84	MG	1	4014	1/1	0.96	0.10	43,43,43,43	0
84	MG	CM	1860	1/1	0.96	0.06	52,52,52,52	0
84	MG	B	1821	1/1	0.96	0.23	31,31,31,31	0
84	MG	AS	3693	1/1	0.96	0.10	52,52,52,52	0
84	MG	AS	3780	1/1	0.96	0.12	47,47,47,47	0
84	MG	AS	3537	1/1	0.96	0.11	50,50,50,50	0
84	MG	1	3712	1/1	0.96	0.18	32,32,32,32	0
84	MG	CM	1959	1/1	0.96	0.12	56,56,56,56	0
84	MG	1	3461	1/1	0.96	0.20	19,19,19,19	0
84	MG	f	102	1/1	0.96	0.09	61,61,61,61	0
84	MG	1	3893	1/1	0.96	0.18	39,39,39,39	0
84	MG	CM	1870	1/1	0.96	0.16	63,63,63,63	0
84	MG	1	3429	1/1	0.96	0.12	35,35,35,35	0
84	MG	AS	3787	1/1	0.96	0.08	55,55,55,55	0
84	MG	AS	3620	1/1	0.96	0.18	37,37,37,37	0
84	MG	AS	3403	1/1	0.96	0.23	22,22,22,22	0
84	MG	AS	3474	1/1	0.96	0.15	33,33,33,33	0
84	MG	r	302	1/1	0.96	0.22	29,29,29,29	0
84	MG	AS	3624	1/1	0.96	0.09	37,37,37,37	0
84	MG	B	1968	1/1	0.96	0.14	58,58,58,58	0
84	MG	1	3599	1/1	0.96	0.17	43,43,43,43	0
84	MG	AS	3707	1/1	0.96	0.25	33,33,33,33	0
84	MG	1	3403	1/1	0.96	0.19	46,46,46,46	0
84	MG	B	1971	1/1	0.96	0.12	46,46,46,46	0
84	MG	AS	3409	1/1	0.96	0.26	24,24,24,24	0
84	MG	B	1918	1/1	0.96	0.07	47,47,47,47	0
84	MG	AS	3800	1/1	0.96	0.06	41,41,41,41	0
84	MG	AS	3801	1/1	0.96	0.12	54,54,54,54	0
84	MG	1	3986	1/1	0.96	0.06	36,36,36,36	0
84	MG	AS	3412	1/1	0.96	0.36	47,47,47,47	0
84	MG	AS	3415	1/1	0.96	0.21	28,28,28,28	0
84	MG	1	3701	1/1	0.96	0.05	47,47,47,47	0
84	MG	1	3777	1/1	0.96	0.24	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	CM	1892	1/1	0.96	0.14	43,43,43,43	0
84	MG	B	1832	1/1	0.96	0.27	38,38,38,38	0
84	MG	1	3702	1/1	0.96	0.06	55,55,55,55	0
84	MG	B	1876	1/1	0.96	0.13	58,58,58,58	0
84	MG	1	3959	1/1	0.96	0.14	47,47,47,47	0
84	MG	AS	3640	1/1	0.96	0.15	48,48,48,48	0
84	MG	1	3619	1/1	0.96	0.05	38,38,38,38	0
84	MG	w	301	1/1	0.96	0.27	42,42,42,42	0
84	MG	1	3721	1/1	0.96	0.08	40,40,40,40	0
84	MG	AS	3427	1/1	0.96	0.20	30,30,30,30	0
84	MG	AS	3495	1/1	0.96	0.12	34,34,34,34	0
84	MG	DG	202	1/1	0.96	0.10	61,61,61,61	0
84	MG	1	3479	1/1	0.96	0.28	17,17,17,17	0
84	MG	AS	3497	1/1	0.96	0.19	36,36,36,36	0
84	MG	1	3723	1/1	0.96	0.09	30,30,30,30	0
84	MG	AS	3650	1/1	0.96	0.07	30,30,30,30	0
84	MG	CM	1814	1/1	0.96	0.29	41,41,41,41	0
84	MG	1	3621	1/1	0.96	0.06	58,58,58,58	0
84	MG	1	3905	1/1	0.96	0.06	36,36,36,36	0
84	MG	AS	3735	1/1	0.96	0.05	31,31,31,31	0
85	ZN	CH	101	1/1	0.96	0.12	150,150,150,150	0
84	MG	AS	3433	1/1	0.96	0.08	41,41,41,41	0
84	MG	1	3998	1/1	0.96	0.09	40,40,40,40	0
84	MG	1	3495	1/1	0.96	0.24	23,23,23,23	0
84	MG	AS	3664	1/1	0.97	0.06	80,80,80,80	0
84	MG	k	407	1/1	0.97	0.16	36,36,36,36	0
84	MG	AS	3716	1/1	0.97	0.09	33,33,33,33	0
84	MG	CM	1832	1/1	0.97	0.30	31,31,31,31	0
84	MG	6	201	1/1	0.97	0.12	38,38,38,38	0
84	MG	1	3504	1/1	0.97	0.07	26,26,26,26	0
84	MG	1	3940	1/1	0.97	0.13	40,40,40,40	0
84	MG	AS	3823	1/1	0.97	0.19	43,43,43,43	0
84	MG	1	3824	1/1	0.97	0.10	46,46,46,46	0
84	MG	AS	3575	1/1	0.97	0.08	40,40,40,40	0
84	MG	1	3489	1/1	0.97	0.25	23,23,23,23	0
84	MG	1	3695	1/1	0.97	0.09	39,39,39,39	0
84	MG	1	3449	1/1	0.97	0.24	44,44,44,44	0
84	MG	B	1814	1/1	0.97	0.07	45,45,45,45	0
84	MG	AS	3777	1/1	0.97	0.24	42,42,42,42	0
84	MG	1	3646	1/1	0.97	0.12	37,37,37,37	0
84	MG	AS	3581	1/1	0.97	0.09	33,33,33,33	0
84	MG	1	3999	1/1	0.97	0.03	53,53,53,53	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3742	1/1	0.97	0.17	33,33,33,33	0
84	MG	1	3947	1/1	0.97	0.07	31,31,31,31	0
84	MG	CM	1849	1/1	0.97	0.05	46,46,46,46	0
84	MG	1	3922	1/1	0.97	0.21	48,48,48,48	0
84	MG	AS	3414	1/1	0.97	0.07	58,58,58,58	0
84	MG	1	3572	1/1	0.97	0.09	34,34,34,34	0
84	MG	B	1921	1/1	0.97	0.10	78,78,78,78	0
84	MG	AS	3460	1/1	0.97	0.10	34,34,34,34	0
84	MG	B	1922	1/1	0.97	0.07	41,41,41,41	0
84	MG	AS	3591	1/1	0.97	0.22	47,47,47,47	0
84	MG	CM	1857	1/1	0.97	0.14	29,29,29,29	0
84	MG	CM	1979	1/1	0.97	0.07	55,55,55,55	0
84	MG	1	3484	1/1	0.97	0.18	30,30,30,30	0
84	MG	1	3637	1/1	0.97	0.07	40,40,40,40	0
84	MG	CM	1802	1/1	0.97	0.41	29,29,29,29	0
84	MG	AS	3740	1/1	0.97	0.05	46,46,46,46	0
84	MG	B	1925	1/1	0.97	0.12	54,54,54,54	0
84	MG	AS	3421	1/1	0.97	0.09	29,29,29,29	0
84	MG	CM	1864	1/1	0.97	0.12	43,43,43,43	0
84	MG	1	3715	1/1	0.97	0.08	30,30,30,30	0
84	MG	AU	202	1/1	0.97	0.12	55,55,55,55	0
84	MG	1	3796	1/1	0.97	0.15	50,50,50,50	0
84	MG	1	3674	1/1	0.97	0.08	34,34,34,34	0
84	MG	1	3837	1/1	0.97	0.14	68,68,68,68	0
84	MG	AS	3554	1/1	0.97	0.11	44,44,44,44	0
84	MG	1	3798	1/1	0.97	0.23	35,35,35,35	0
84	MG	1	3553	1/1	0.97	0.07	50,50,50,50	0
84	MG	AU	209	1/1	0.97	0.04	33,33,33,33	0
84	MG	AS	3603	1/1	0.97	0.11	38,38,38,38	0
84	MG	AS	3651	1/1	0.97	0.08	54,54,54,54	0
84	MG	AS	3429	1/1	0.97	0.28	27,27,27,27	0
84	MG	1	3538	1/1	0.97	0.12	36,36,36,36	0
84	MG	1	3492	1/1	0.97	0.25	22,22,22,22	0
84	MG	3	205	1/1	0.97	0.17	30,30,30,30	0
84	MG	3	206	1/1	0.97	0.08	63,63,63,63	0
84	MG	1	3863	1/1	0.97	0.05	57,57,57,57	0
84	MG	1	3864	1/1	0.97	0.11	51,51,51,51	0
84	MG	1	3988	1/1	0.97	0.10	69,69,69,69	0
84	MG	CM	1943	1/1	0.97	0.15	48,48,48,48	0
84	MG	1	3410	1/1	0.97	0.32	25,25,25,25	0
84	MG	1	3913	1/1	0.97	0.09	33,33,33,33	0
85	ZN	DN	201	1/1	0.97	0.04	85,85,85,85	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
84	MG	1	3548	1/1	0.97	0.16	26,26,26,26	0
84	MG	B	1905	1/1	0.97	0.05	39,39,39,39	0
84	MG	AS	3553	1/1	0.98	0.10	29,29,29,29	0
84	MG	AS	3711	1/1	0.98	0.05	45,45,45,45	0
84	MG	1	3817	1/1	0.98	0.17	34,34,34,34	0
84	MG	AS	3776	1/1	0.98	0.07	40,40,40,40	0
84	MG	1	3878	1/1	0.98	0.04	35,35,35,35	0
84	MG	1	3769	1/1	0.98	0.11	27,27,27,27	0
84	MG	1	3850	1/1	0.98	0.15	28,28,28,28	0
84	MG	AS	3802	1/1	0.98	0.04	48,48,48,48	0
84	MG	1	3869	1/1	0.98	0.12	48,48,48,48	0
84	MG	AS	3473	1/1	0.98	0.15	28,28,28,28	0
84	MG	CM	1945	1/1	0.98	0.09	40,40,40,40	0
84	MG	j	303	1/1	0.98	0.11	26,26,26,26	0
84	MG	CM	1972	1/1	0.98	0.07	40,40,40,40	0
84	MG	AS	3561	1/1	0.98	0.05	29,29,29,29	0
84	MG	1	3634	1/1	0.98	0.08	33,33,33,33	0
84	MG	1	3871	1/1	0.98	0.08	47,47,47,47	0
84	MG	AS	3444	1/1	0.98	0.10	41,41,41,41	0
84	MG	AS	3641	1/1	0.98	0.06	41,41,41,41	0
85	ZN	AQ	101	1/1	0.98	0.06	84,84,84,84	0
84	MG	AW	301	1/1	0.98	0.12	37,37,37,37	0
85	ZN	f	101	1/1	0.98	0.08	75,75,75,75	0
84	MG	1	3630	1/1	0.98	0.07	44,44,44,44	0
84	MG	AS	3413	1/1	0.98	0.24	25,25,25,25	0
85	ZN	CE	101	1/1	0.98	0.04	71,71,71,71	0
84	MG	x	203	1/1	0.98	0.30	37,37,37,37	0
84	MG	1	3570	1/1	0.98	0.15	29,29,29,29	0
84	MG	1	3625	1/1	0.98	0.23	31,31,31,31	0
84	MG	1	3830	1/1	0.98	0.06	37,37,37,37	0
85	ZN	DQ	101	1/1	0.98	0.10	51,51,51,51	0
84	MG	1	3571	1/1	0.98	0.05	26,26,26,26	0
84	MG	AS	3402	1/1	0.99	0.04	39,39,39,39	0
84	MG	AS	3692	1/1	0.99	0.03	50,50,50,50	0
85	ZN	c	201	1/1	0.99	0.04	84,84,84,84	0
85	ZN	CK	101	1/1	0.99	0.03	116,116,116,116	0
84	MG	AS	3436	1/1	0.99	0.09	37,37,37,37	0
84	MG	1	3423	1/1	0.99	0.30	24,24,24,24	0
84	MG	AS	3830	1/1	0.99	0.04	49,49,49,49	0
84	MG	AS	3422	1/1	0.99	0.06	28,28,28,28	0
84	MG	1	3407	1/1	1.00	0.03	42,42,42,42	0
85	ZN	AK	101	1/1	1.00	0.04	49,49,49,49	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(\AA^2)	Q<0.9
84	MG	1	3439	1/1	1.00	0.07	28,28,28,28	0

6.5 Other polymers [i](#)

There are no such residues in this entry.