



# Full wwPDB X-ray Structure Validation Report ⓘ

Jan 4, 2024 – 02:27 am GMT

PDB ID : 8C3A  
Title : Crystal structure of ailanthone bound to the Candida albicans 80S ribosome  
Authors : Kolosova, O.; Zgadzay, Y.; Yusupov, M.  
Deposited on : 2022-12-23  
Resolution : 3.00 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](mailto: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 : 2.36  
buster-report : 1.1.7 (2018)  
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)  
Refmac : 5.8.0158  
CCP4 : 7.0.044 (Gargrove)  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.36

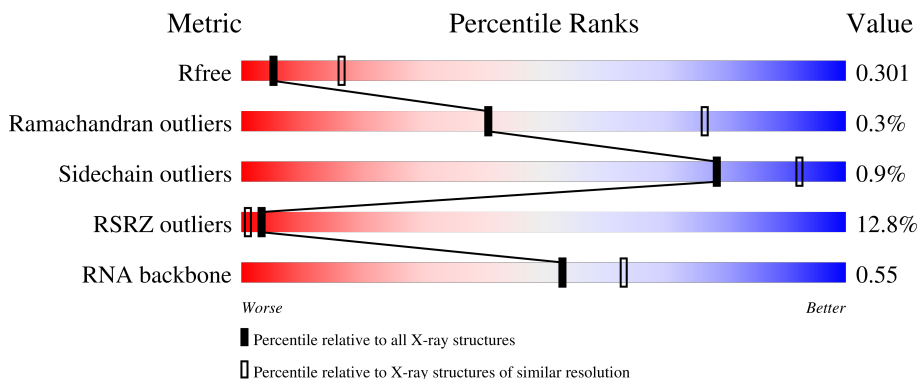
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 3.00 Å.

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



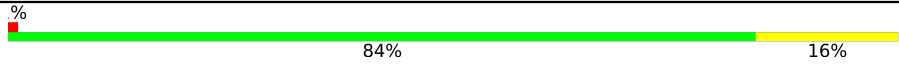
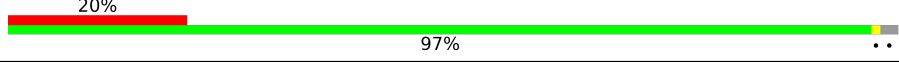
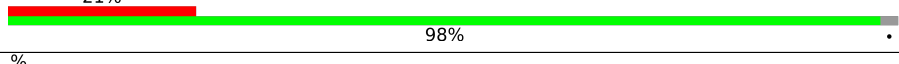
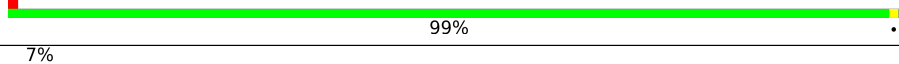
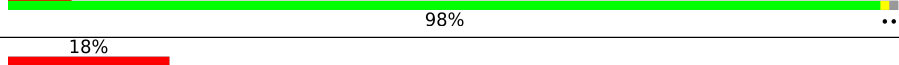
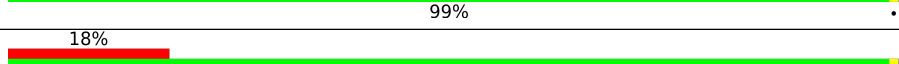
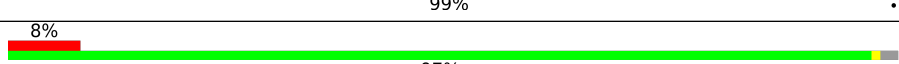
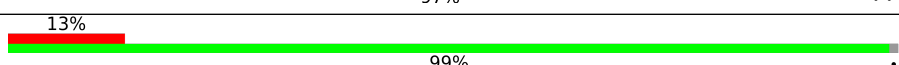
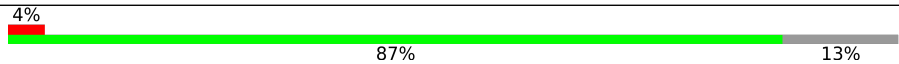

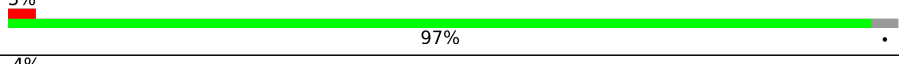
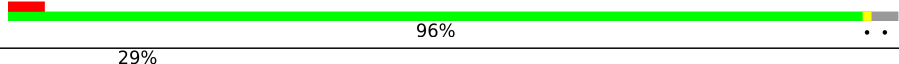
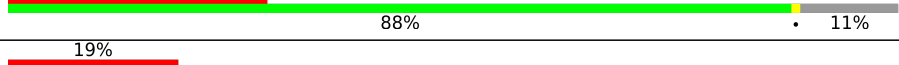
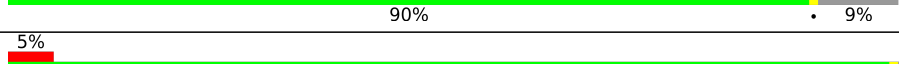
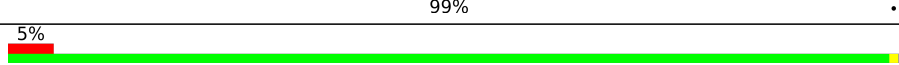
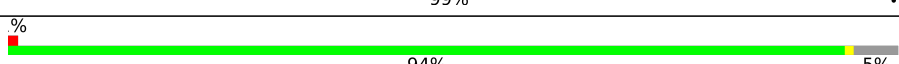
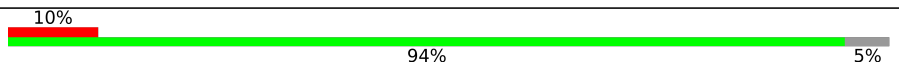
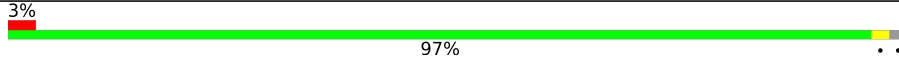
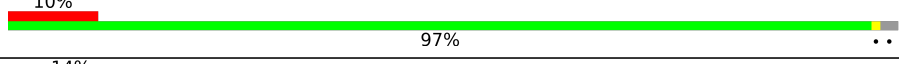
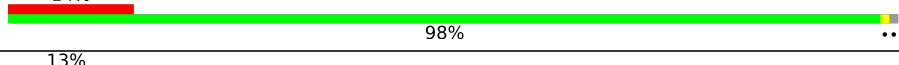
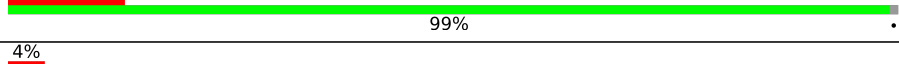
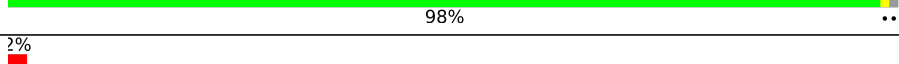
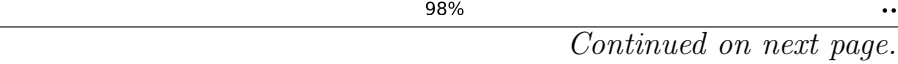


Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
$R_{free}$	130704	2092 (3.00-3.00)
Ramachandran outliers	138981	2333 (3.00-3.00)
Sidechain outliers	138945	2336 (3.00-3.00)
RSRZ outliers	127900	1990 (3.00-3.00)
RNA backbone	3102	1173 (3.30-2.70)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments of the lower bar indicate the fraction of residues that contain outliers for  $\geq 3$ , 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	
1	AS	3359	
2	3	121	
2	AT	121	
3	4	158	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
3	AU	158	
4	AW	254	
4	j	254	
5	AX	389	
5	k	389	
6	AY	363	
6	l	363	
7	AZ	298	
7	m	298	
8	BA	176	
8	n	176	
9	BB	241	
9	o	241	
10	BC	262	
10	p	262	
11	BD	191	
11	q	191	
12	BE	220	
12	r	220	
13	BF	174	
13	s	174	
14	BG	202	
14	t	202	
15	BH	131	
15	u	131	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
16	BI	204	61% 100%
16	v	204	18% 99%
17	BJ	200	2% 100%
17	w	200	4% 99%
18	BK	185	15% 94% 5%
18	x	185	17% 93% 6%
19	BL	186	13% 99% .
19	y	186	19% 99% .
20	BM	190	3% 92% 6%
20	z	190	4% 94% 6%
21	0	172	3% 98% ..
21	BN	172	3% 99% .
22	2	160	19% 99% .
22	BO	160	14% 99% ..
23	5	124	11% 81% 17%
23	BP	124	12% 77% 5% 18%
24	6	137	11% 96% .
24	BQ	137	13% 94% ..
25	7	155	6% 75% 24%
25	BR	155	6% 62% 37%
26	8	142	16% 85% 15%
26	BS	142	28% 84% 16%
27	9	127	26% 98% ..
27	BT	127	24% 98% ..
28	AA	136	12% 99% .

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
28	BU	136	21% 98%
29	AB	149	32% 99%
29	BV	149	17% 99%
30	AC	63	21% 95%
30	BW	63	24% 97%
31	AD	106	3% 91%
31	BX	106	16% 91%
32	AE	112	15% 96%
32	BY	112	13% 97%
33	AF	131	18% 95%
33	BZ	131	10% 94%
34	AG	107	6% 98%
34	CA	107	4% 99%
35	AH	122	21% 92%
35	CB	122	36% 92%
36	AI	120	18% 98%
36	CC	120	30% 97%
37	AJ	99	12% 97%
37	CD	99	22% 98%
38	AK	87	22% 99%
38	CE	87	32% 99%
39	AL	78	22% 99%
39	CF	78	42% 97%
40	AM	51	8% 96%
40	CG	51	39% 98%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
41	AN	52	10% 100%
41	CH	52	13% 90% 8%
42	AO	25	76% 92% 8%
42	CI	25	60% 96%
43	AP	106	9% 96%
43	CJ	106	8% 95%
44	AQ	92	18% 99%
44	CK	92	18% 99%
45	CL	267	3% 44% 55%
45	i	267	6% 44% 55%
46	B	1787	3% 71% 26%
46	CM	1787	3% 71% 26%
47	C	261	8% 79% 20%
47	CN	261	4% 79% 20%
48	CO	256	14% 84% 16%
48	D	256	7% 83% 16%
49	CP	249	6% 86% 13%
49	E	249	33% 87% 13%
50	CQ	251	8% 86% 11%
50	F	251	33% 88% 11%
51	CR	262	28% 99%
51	G	262	27% 99%
52	CS	225	20% 91% 8%
52	H	225	26% 91% 8%
53	CT	236	13% 99%

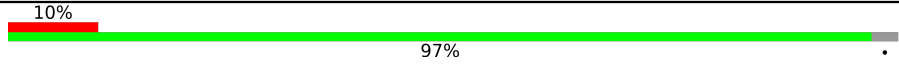
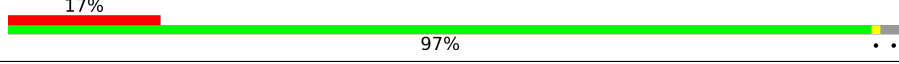
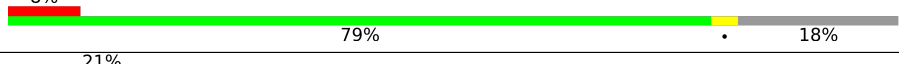

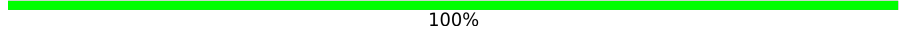
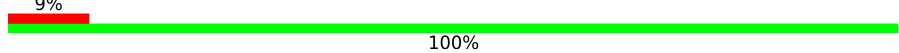
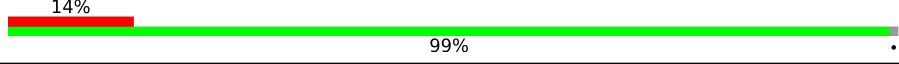
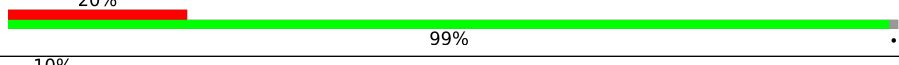
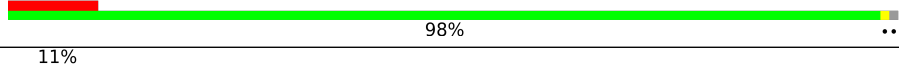
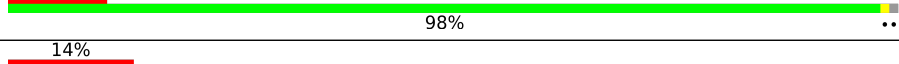
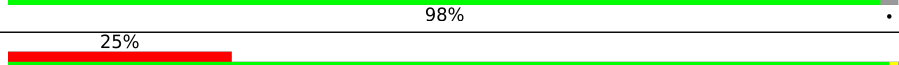
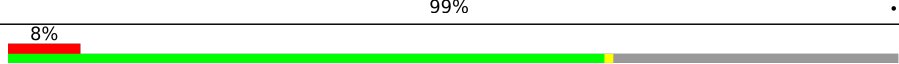
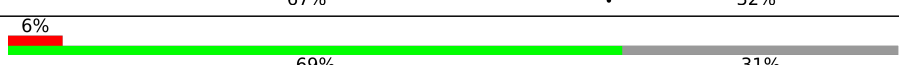
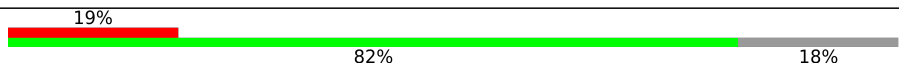

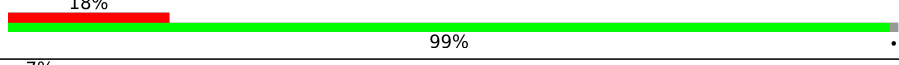
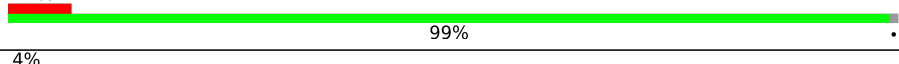
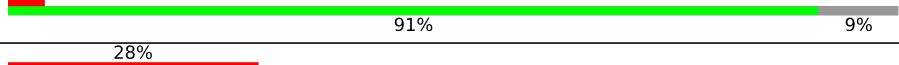
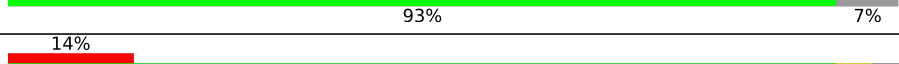
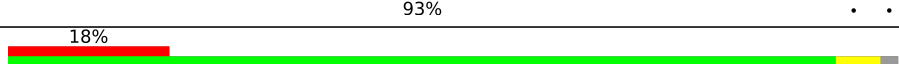
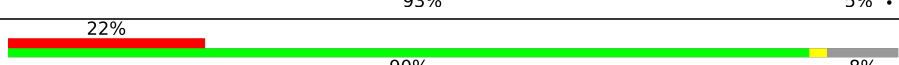
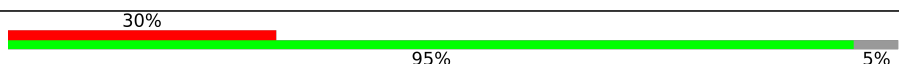



Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
53	I	236	10% 95%
54	CU	186	15% 97%
54	J	186	30% 99%
55	CV	206	13% 99%
55	K	206	11% 98%
56	CW	189	25% 94% 6%
56	L	189	48% 94% 6%
57	CX	118	7% 80% 20%
57	M	118	19% 82% 17%
58	CY	155	15% 90% 9%
58	N	155	25% 92% 7%
59	CZ	143	16% 77% 6% 17%
59	O	143	29% 75% 6% 19%
60	DA	151	22% 99%
60	P	151	14% 99%
61	DB	132	14% 95%
61	Q	132	3% 95%
62	DC	142	18% 90% 8%
62	R	142	23% 88% 9%
63	DD	142	37% 97%
63	S	142	53% 97%
64	DE	137	18% 91% 9%
64	T	137	33% 90% 9%
65	DF	145	7% 94%
65	U	145	8% 96%

Continued on next page...


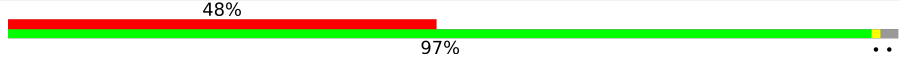
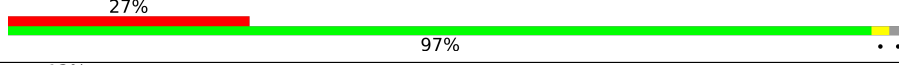

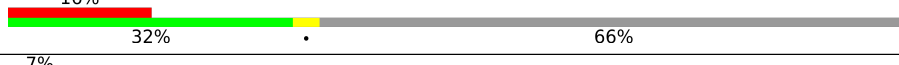

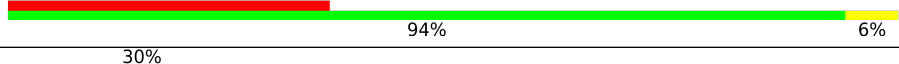
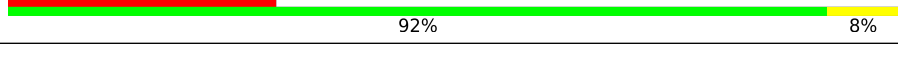
Continued from previous page...

Mol	Chain	Length	Quality of chain
66	DG	145	
66	V	145	
67	DH	119	
67	W	119	
68	DI	87	
68	X	87	
69	DJ	130	
69	Y	130	
70	DK	145	
70	Z	145	
71	DL	135	
71	a	135	
72	DM	105	
72	b	105	
73	DN	119	
73	c	119	
74	DO	82	
74	d	82	
75	DP	67	
75	e	67	
76	DQ	56	
76	f	56	
77	DR	63	
77	g	63	
78	DS	193	

Continued on next page...



Continued from previous page...

Mol	Chain	Length	Quality of chain
78	h	193	
79	AR	317	
79	DT	317	
80	P0	312	
80	p0	312	
81	12	165	
82	L1	217	
82	l1	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
83	MG	0	203	-	-	-	X
83	MG	1	3419	-	-	-	X
83	MG	1	3518	-	-	-	X
83	MG	1	3548	-	-	-	X
83	MG	1	3549	-	-	-	X
83	MG	1	3582	-	-	-	X
83	MG	1	3588	-	-	-	X
83	MG	1	3604	-	-	-	X
83	MG	1	3629	-	-	-	X
83	MG	1	3642	-	-	-	X
83	MG	1	3654	-	-	-	X
83	MG	1	3679	-	-	-	X
83	MG	1	3681	-	-	-	X
83	MG	1	3691	-	-	-	X
83	MG	1	3716	-	-	-	X
83	MG	1	3722	-	-	-	X
83	MG	1	3802	-	-	-	X
83	MG	1	3866	-	-	-	X
83	MG	1	3890	-	-	-	X
83	MG	1	3918	-	-	-	X
83	MG	1	3920	-	-	-	X
83	MG	1	3947	-	-	-	X
83	MG	1	3957	-	-	-	X

Continued on next page...

*Continued from previous page...*

Mol	Type	Chain	Res	Chirality	Geometry	Clashes	Electron density
83	MG	3	208	-	-	-	X
83	MG	4	207	-	-	-	X
83	MG	9	202	-	-	-	X
83	MG	AC	101	-	-	-	X
83	MG	AF	202	-	-	-	X
83	MG	AS	3463	-	-	-	X
83	MG	AS	3630	-	-	-	X
83	MG	AS	3634	-	-	-	X
83	MG	AS	3649	-	-	-	X
83	MG	AS	3654	-	-	-	X
83	MG	AS	3670	-	-	-	X
83	MG	AS	3701	-	-	-	X
83	MG	AS	3709	-	-	-	X
83	MG	AS	3744	-	-	-	X
83	MG	AS	3753	-	-	-	X
83	MG	AS	3757	-	-	-	X
83	MG	AS	3768	-	-	-	X
83	MG	AS	3775	-	-	-	X
83	MG	AU	209	-	-	-	X
83	MG	B	1914	-	-	-	X
83	MG	B	1936	-	-	-	X
83	MG	B	1958	-	-	-	X
83	MG	BI	301	-	-	-	X
83	MG	BS	201	-	-	-	X
83	MG	CM	1897	-	-	-	X
83	MG	CM	1917	-	-	-	X
83	MG	I	301	-	-	-	X
83	MG	j	302	-	-	-	X
83	MG	k	406	-	-	-	X

## 2 Entry composition [i](#)

There are 87 unique types of molecules in this entry. The entry contains 410139 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	3217	Total	C	N	O	P	0	0	0
			68771	30722	12362	22470	3217			
1	AS	3229	Total	C	N	O	P	0	0	0
			69025	30835	12406	22555	3229			

- 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	1	0
			1894	1185	377	330	2			
4	AW	249	Total	C	N	O	S	0	1	0
			1894	1185	377	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	234	Total	C	N	O	S	0	0	0
			1885	1208	345	331	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			

*Continued on next page...*

*Continued from previous page...*

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	6	2	0
			843	550	138	155			

- 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	121	Total	C	N	O	S	0	0	0
			974	622	175	176	1			

*Continued on next page...*

*Continued from previous page...*

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

- Molecule 27 is a protein called Ribosomal protein L24.

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

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

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

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
29	AB	148	1170	741	231	197	1	0	0	0
29	BV	148	1170	741	231	197	1	0	0	0

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
30	AC	62	493	307	105	81		0	0	0
30	BW	61	488	304	104	80		0	0	0

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

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



- 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	1	0
			998	634	196	167	1			
36	CC	118	Total	C	N	O		6	1	0
			985	626	194	165				

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

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
37	AJ	97	Total	C	N	O	S	0	0	0
			758	471	156	130	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	1	0
			446	280	100	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			

*Continued on next page...*

*Continued from previous page...*

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
			930	563	166	201			
45	CL	121	Total	C	N	O	0	0	0
			930	563	166	201			

- Molecule 46 is a RNA chain called 18S.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
46	B	1761	Total	C	N	O	P	0	0	0
			37537	16780	6656	12340	1761			
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 1724	C 1094	N 313	O 313	S 4	0	0	0
48	CO	214	Total 1724	C 1094	N 313	O 313	S 4	0	0	0

- 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 1629	C 1039	N 289	O 296	S 5	0	0	0
49	CP	217	Total 1629	C 1039	N 289	O 296	S 5	0	0	0

- 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 1707	C 1087	N 311	O 305	S 4	0	0	0
50	CQ	223	Total 1707	C 1087	N 311	O 305	S 4	0	0	0

- 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 2051	C 1304	N 385	O 357	S 5	0	0	0
51	CR	260	Total 2055	C 1306	N 386	O 358	S 5	0	0	0

- 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 1614	C 1008	N 301	O 301	S 4	0	0	0
52	CS	206	Total 1614	C 1008	N 301	O 301	S 4	0	0	0

- 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	98	Total	C	N	O	S	0	0	0
			817	531	135	150	1			
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			

*Continued on next page...*

*Continued from previous page...*

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 S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
59	O	116	Total	C	N	O	S	0	0	0
			885	550	158	172	5			
59	CZ	119	Total	C	N	O	S	0	0	0
			913	566	163	179	5			

- Molecule 60 is a protein called 40S ribosomal protein S13.

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

- Molecule 61 is a protein called 40S ribosomal protein S14-A.

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

- Molecule 62 is a protein called 40S ribosomal protein S15.

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

- Molecule 63 is a protein called 40S ribosomal protein S16.

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

- Molecule 64 is a protein called 40S ribosomal protein S17-B.

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

- Molecule 65 is a protein called 40S ribosomal protein S18-B.

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

- Molecule 66 is a protein called 40S ribosomal protein S19-A.

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

- Molecule 67 is a protein called Ribosomal protein S10.

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

- Molecule 68 is a protein called 40S ribosomal protein S21.

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

- Molecule 69 is a protein called 40S ribosomal protein S22-A.

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

- Molecule 70 is a protein called Ribosomal protein S23 (S12).

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

- Molecule 71 is a protein called 40S ribosomal protein S24.

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

- Molecule 72 is a protein called 40S ribosomal protein S25.

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

- Molecule 73 is a protein called 40S ribosomal protein S26.

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

- Molecule 74 is a protein called 40S ribosomal protein S27.

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

*Continued on next page...*



*Continued from previous page...*

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

- Molecule 75 is a protein called 40S ribosomal protein S28-B.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
75	e	62	487	299	98	88	2	0	0	0
75	DP	61	476	293	94	87	2	0	0	0

- Molecule 76 is a protein called 40S ribosomal protein S29A.

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

- Molecule 77 is a protein called 40S ribosomal protein S30.

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

- Molecule 78 is a protein called Ubiquitin-40S ribosomal protein S31 fusion protein.

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

- Molecule 79 is a protein called Guanine nucleotide-binding protein subunit beta-like protein.

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

- 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 845	C 542	N 150	O 150	S 3	0	0	0
80	p0	107	Total 845	C 542	N 150	O 150	S 3	0	0	0

- 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	63	Total 480	C 297	N 85	O 96	S 2	0	0	0

- Molecule 82 is a protein called Ribosomal protein.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
82	L1	217	Total 1711	C 1096	N 294	O 312	S 9	0	0	0
82	11	217	Total 1711	C 1096	N 294	O 312	S 9	0	0	0

- Molecule 83 is MAGNESIUM ION (three-letter code: MG) (formula: Mg).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
83	1	556	Total 556	Mg 556	0	0
83	3	15	Total 15	Mg 15	0	0
83	4	11	Total 11	Mg 11	0	0
83	j	3	Total 3	Mg 3	0	0
83	k	6	Total 6	Mg 6	0	0
83	o	4	Total 4	Mg 4	0	0
83	r	2	Total 2	Mg 2	0	0
83	s	1	Total 1	Mg 1	0	0
83	u	2	Total 2	Mg 2	0	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
83	v	2	Total 2	Mg 2	0	0
83	w	3	Total 3	Mg 3	0	0
83	x	2	Total 2	Mg 2	0	0
83	0	4	Total 4	Mg 4	0	0
83	2	1	Total 1	Mg 1	0	0
83	6	4	Total 4	Mg 4	0	0
83	8	3	Total 3	Mg 3	0	0
83	9	2	Total 2	Mg 2	0	0
83	AB	2	Total 2	Mg 2	0	0
83	AC	1	Total 1	Mg 1	0	0
83	AE	3	Total 3	Mg 3	0	0
83	AF	2	Total 2	Mg 2	0	0
83	AG	3	Total 3	Mg 3	0	0
83	AH	2	Total 2	Mg 2	0	0
83	AK	1	Total 1	Mg 1	0	0
83	AP	2	Total 2	Mg 2	0	0
83	i	1	Total 1	Mg 1	0	0
83	B	172	Total 172	Mg 172	0	0
83	D	1	Total 1	Mg 1	0	0
83	G	2	Total 2	Mg 2	0	0
83	I	1	Total 1	Mg 1	0	0

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
83	J	1	Total 1	Mg 1	0	0
83	K	1	Total 1	Mg 1	0	0
83	Q	2	Total 2	Mg 2	0	0
83	R	1	Total 1	Mg 1	0	0
83	V	1	Total 1	Mg 1	0	0
83	Y	3	Total 3	Mg 3	0	0
83	Z	2	Total 2	Mg 2	0	0
83	f	1	Total 1	Mg 1	0	0
83	g	1	Total 1	Mg 1	0	0
83	AR	1	Total 1	Mg 1	0	0
83	AS	380	Total 380	Mg 380	0	0
83	AT	10	Total 10	Mg 10	0	0
83	AU	10	Total 10	Mg 10	0	0
83	AW	4	Total 4	Mg 4	0	0
83	AX	2	Total 2	Mg 2	0	0
83	AY	1	Total 1	Mg 1	0	0
83	AZ	1	Total 1	Mg 1	0	0
83	BB	4	Total 4	Mg 4	0	0
83	BE	2	Total 2	Mg 2	0	0
83	BF	1	Total 1	Mg 1	0	0
83	BH	1	Total 1	Mg 1	0	0

*Continued on next page...*

*Continued from previous page...*

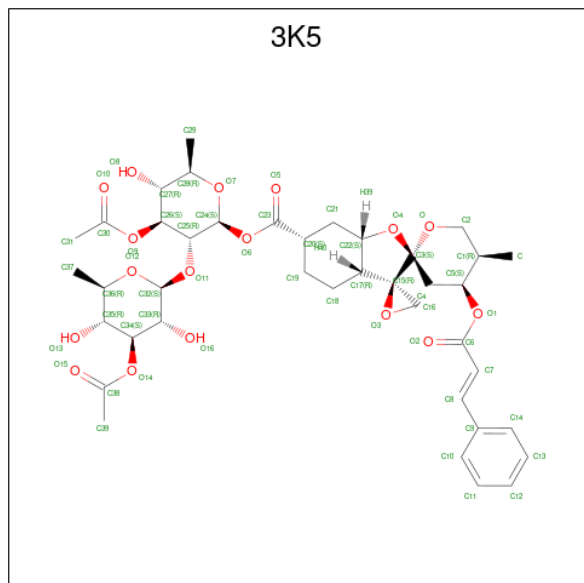
Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
83	BI	1	Total Mg 1 1	0	0
83	BJ	3	Total Mg 3 3	0	0
83	BK	2	Total Mg 2 2	0	0
83	BN	1	Total Mg 1 1	0	0
83	BO	1	Total Mg 1 1	0	0
83	BS	1	Total Mg 1 1	0	0
83	BV	1	Total Mg 1 1	0	0
83	BZ	4	Total Mg 4 4	0	0
83	CA	3	Total Mg 3 3	0	0
83	CJ	1	Total Mg 1 1	0	0
83	CK	2	Total Mg 2 2	0	0
83	CL	3	Total Mg 3 3	0	0
83	CM	148	Total Mg 148 148	0	0
83	CO	1	Total Mg 1 1	0	0
83	CP	1	Total Mg 1 1	0	0
83	CQ	2	Total Mg 2 2	0	0
83	CY	1	Total Mg 1 1	0	0
83	DA	1	Total Mg 1 1	0	0
83	DB	4	Total Mg 4 4	0	0
83	DG	2	Total Mg 2 2	0	0
83	DJ	2	Total Mg 2 2	0	0

*Continued on next page...*

Continued from previous page...

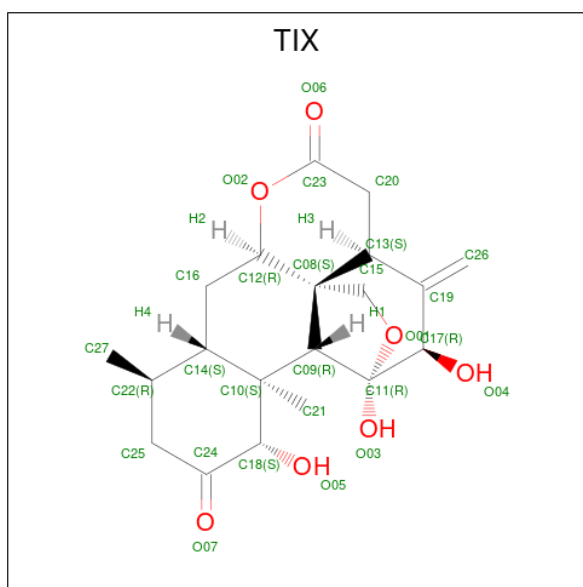
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
83	DQ	1	Total	Mg	0	0
			1	1		

- Molecule 84 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}decahydrodispiro[oxirane-2,3'-[1]benzofuran-2',2''-pyran]-6'-yl]carbonyl]-beta-D-glucopyranose (three-letter code: 3K5) (formula: C<sub>40</sub>H<sub>52</sub>O<sub>17</sub>).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
84	1	1	Total	C	O	0	0
			57	40	17		
84	AS	1	Total	C	O	0	0
			57	40	17		

- Molecule 85 is aianthone (three-letter code: TIX) (formula: C<sub>20</sub>H<sub>26</sub>O<sub>7</sub>).



Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
85	1	1	Total	C O	0	0
			27	20 7		
85	AS	1	Total	C O	0	0
			27	20 7		

- Molecule 86 is ZINC ION (three-letter code: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	AH	1	Total	Zn	0	0
			1	1		
86	AK	1	Total	Zn	0	0
			1	1		
86	AN	1	Total	Zn	0	0
			1	1		
86	AP	1	Total	Zn	0	0
			1	1		
86	AQ	1	Total	Zn	0	0
			1	1		
86	c	1	Total	Zn	0	0
			1	1		
86	d	1	Total	Zn	0	0
			1	1		
86	f	1	Total	Zn	0	0
			1	1		
86	h	1	Total	Zn	0	0
			1	1		
86	CB	1	Total	Zn	0	0
			1	1		

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
86	CE	1	Total 1	Zn 1	0	0
86	CH	1	Total 1	Zn 1	0	0
86	CJ	1	Total 1	Zn 1	0	0
86	CK	1	Total 1	Zn 1	0	0
86	DN	1	Total 1	Zn 1	0	0
86	DO	1	Total 1	Zn 1	0	0
86	DQ	1	Total 1	Zn 1	0	0
86	DS	1	Total 1	Zn 1	0	0

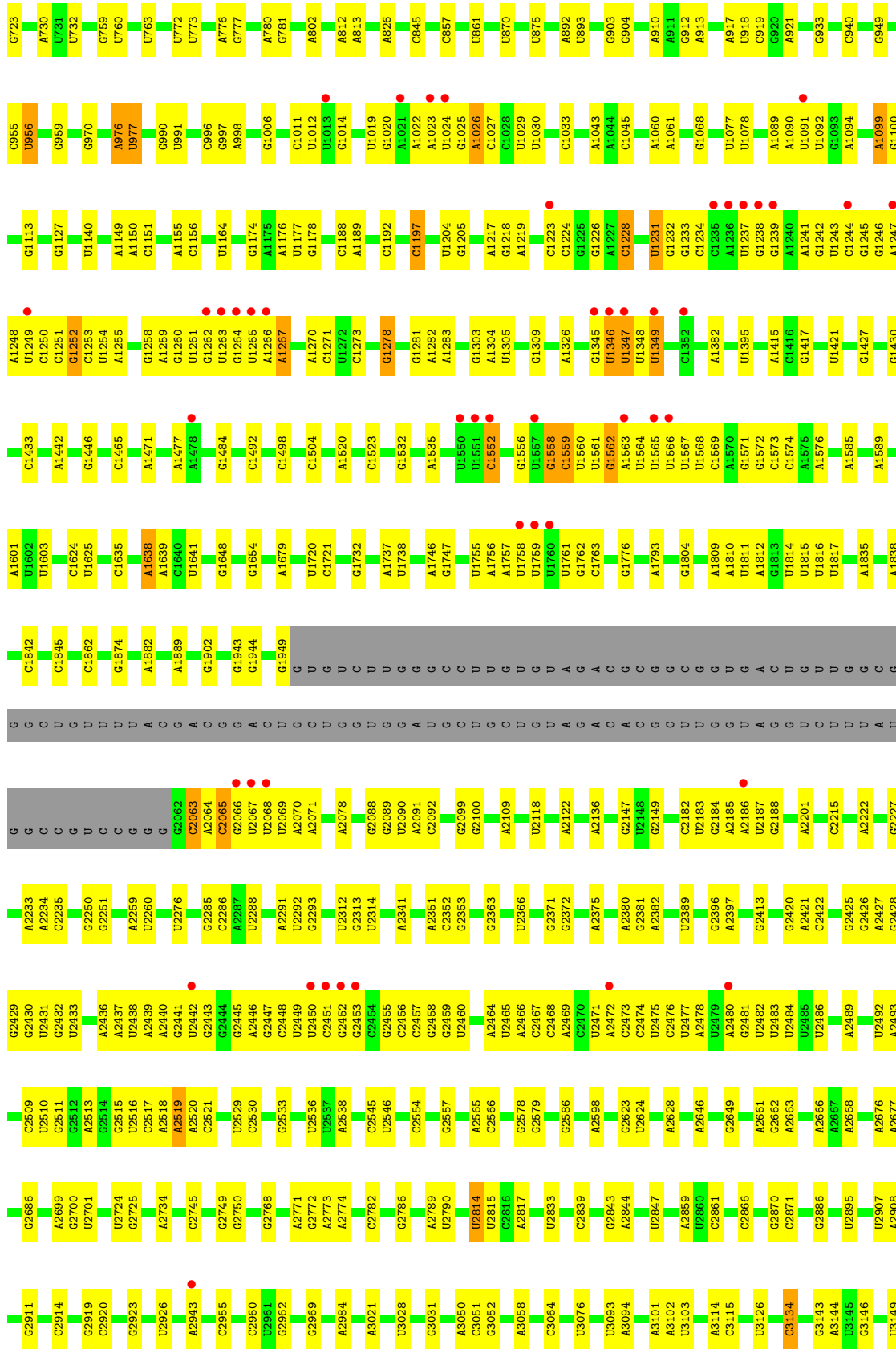
- Molecule 87 is water.

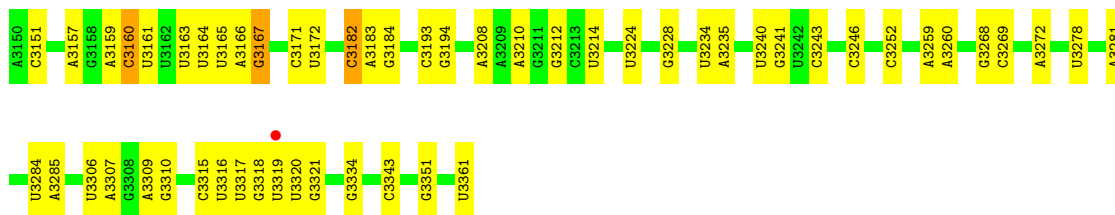
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
87	1	20	Total 20	O 20	0	0
87	4	3	Total 3	O 3	0	0
87	1	1	Total 1	O 1	0	0
87	B	12	Total 12	O 12	0	0
87	AS	26	Total 26	O 26	0	0
87	BQ	3	Total 3	O 3	0	0
87	BV	1	Total 1	O 1	0	0











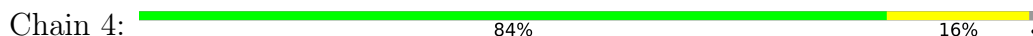
• Molecule 2: 5S



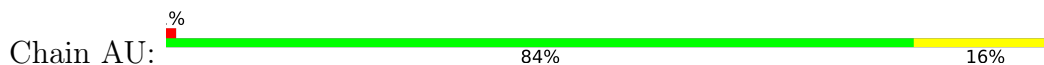
• Molecule 2: 5S



• Molecule 3: 5.8S



• Molecule 3: 5.8S

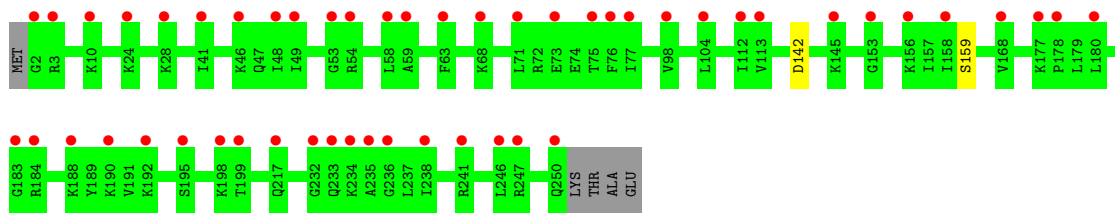


• Molecule 4: 60S ribosomal protein L2-B

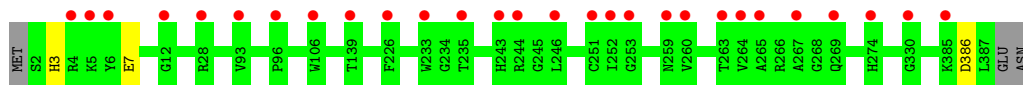


• Molecule 4: 60S ribosomal protein L2-B

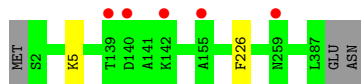




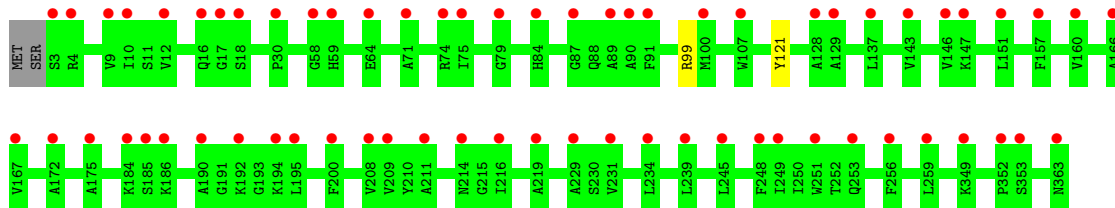
- Molecule 5: 60S ribosomal protein L3



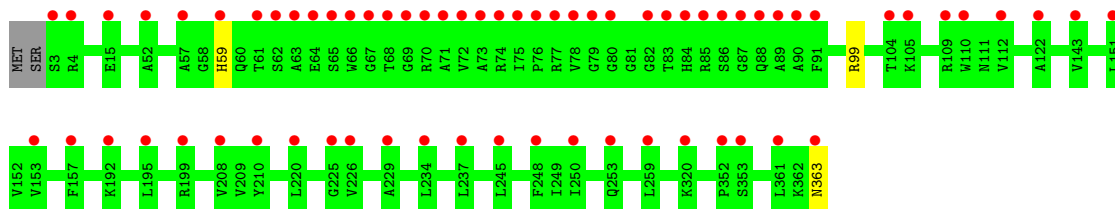
- Molecule 5: 60S ribosomal protein L3



- Molecule 6: 60S ribosomal protein L4-B



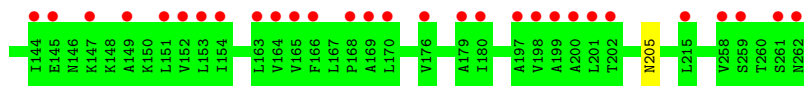
- Molecule 6: 60S ribosomal protein L4-B



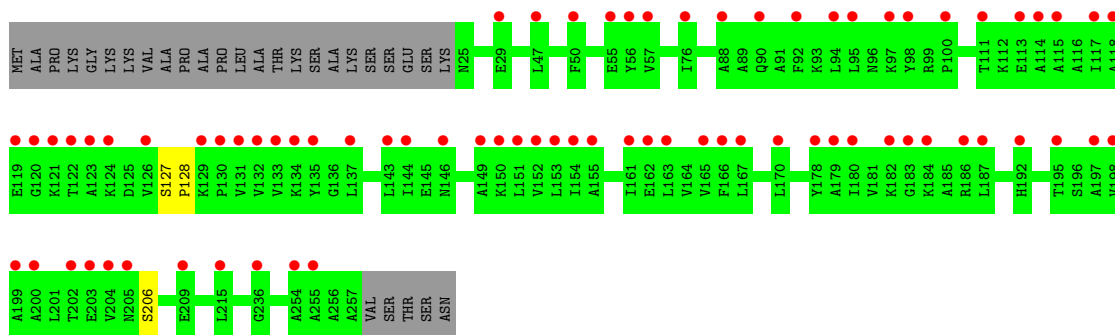
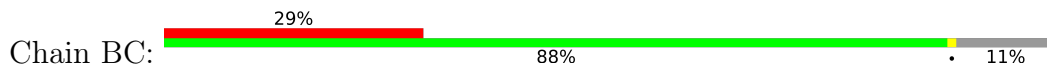
- Molecule 7: Uncharacterized protein CaJ7.0206



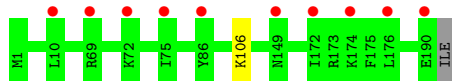




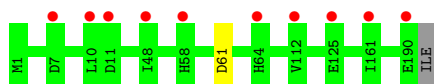
- Molecule 10: 60S ribosomal protein L8



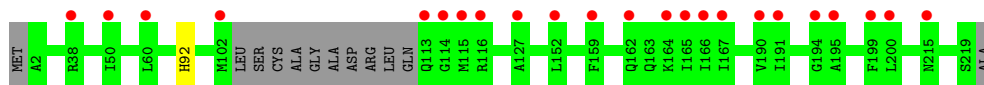
- Molecule 11: 60S ribosomal protein L9-B



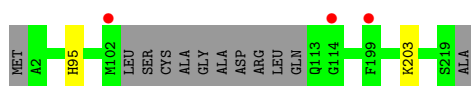
- Molecule 11: 60S ribosomal protein L9-B



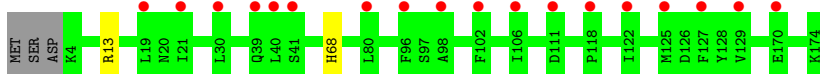
- Molecule 12: 60S ribosomal protein L10



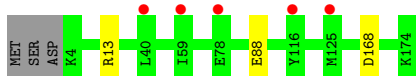
- Molecule 12: 60S ribosomal protein L10



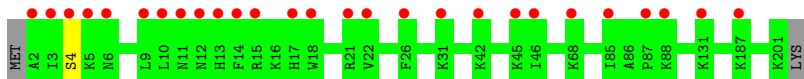
- Molecule 13: 60S ribosomal protein L11-B



- Molecule 13: 60S ribosomal protein L11-B



- Molecule 14: 60S ribosomal protein L13



- Molecule 14: 60S ribosomal protein L13



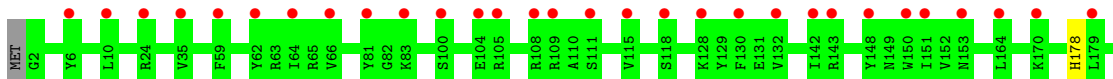
- Molecule 15: 60S ribosomal protein L14-B



- Molecule 15: 60S ribosomal protein L14-B



- Molecule 16: 60S ribosomal protein L15-A

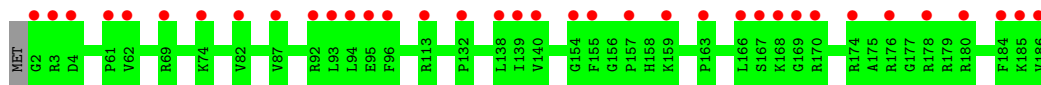




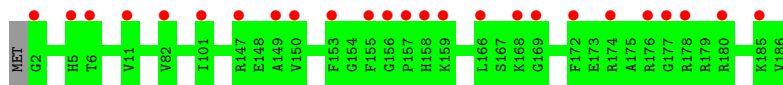




- Molecule 19: 60S ribosomal protein L18-A



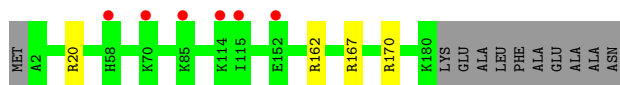
- Molecule 19: 60S ribosomal protein L18-A



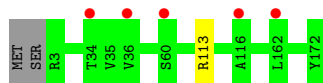
- Molecule 20: 60S ribosomal protein L19-A



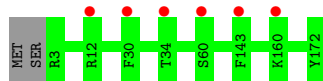
- Molecule 20: 60S ribosomal protein L19-A



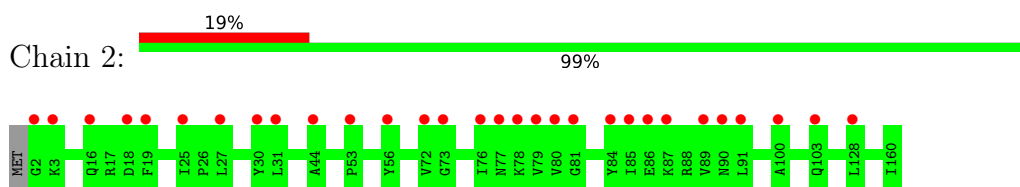
- Molecule 21: 60S ribosomal protein L20



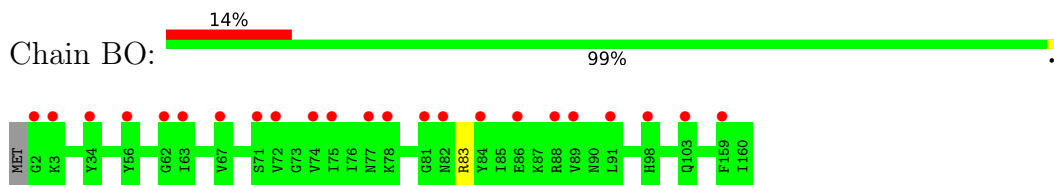
- Molecule 21: 60S ribosomal protein L20



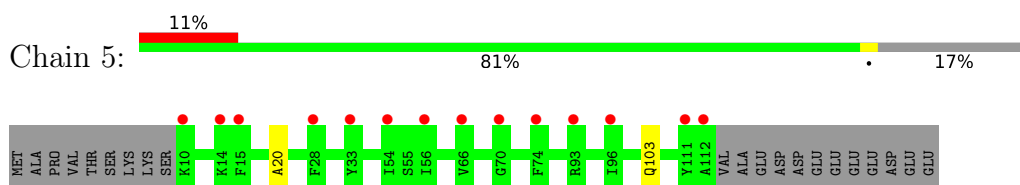
- Molecule 22: 60S ribosomal protein L21-A



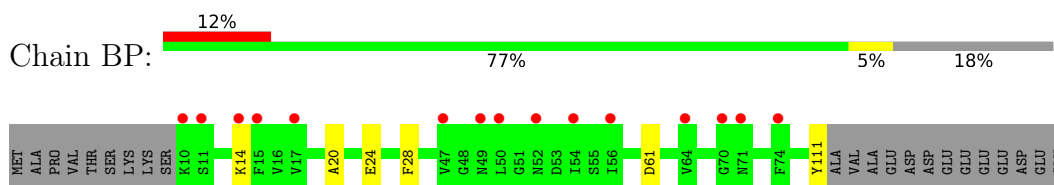
- Molecule 22: 60S ribosomal protein L21-A



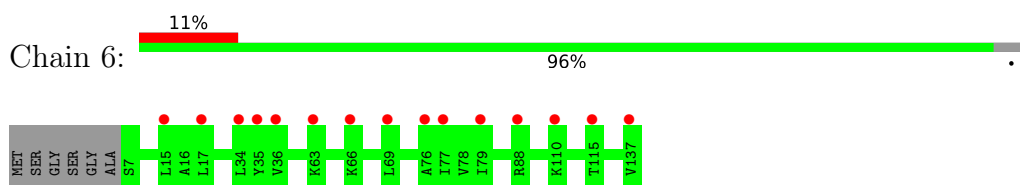
- Molecule 23: 60S ribosomal protein L22-B



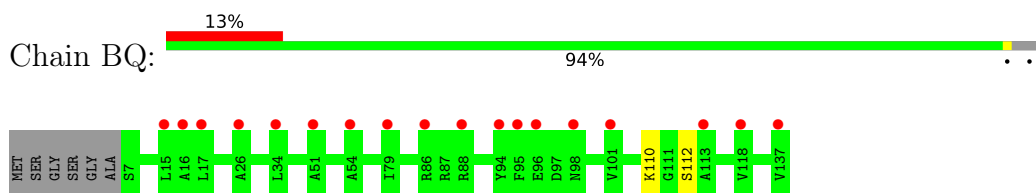
- Molecule 23: 60S ribosomal protein L22-B



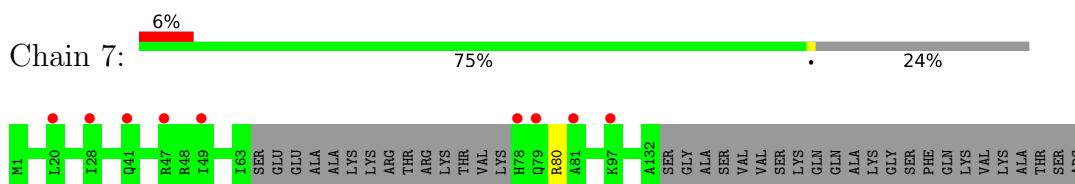
- Molecule 24: 60S ribosomal protein L23-A



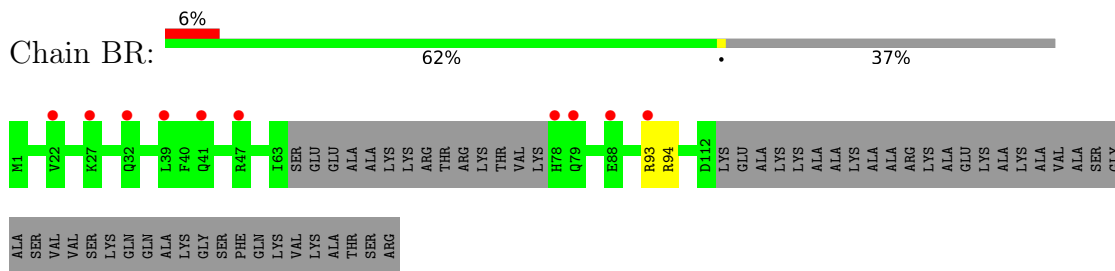
- Molecule 24: 60S ribosomal protein L23-A



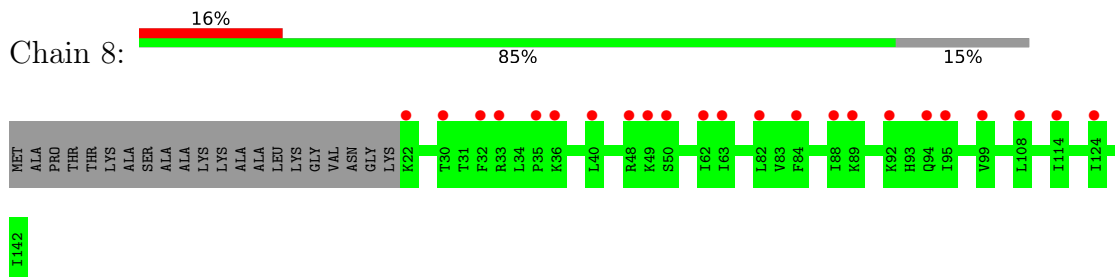
- Molecule 25: 60S ribosomal protein L24-A



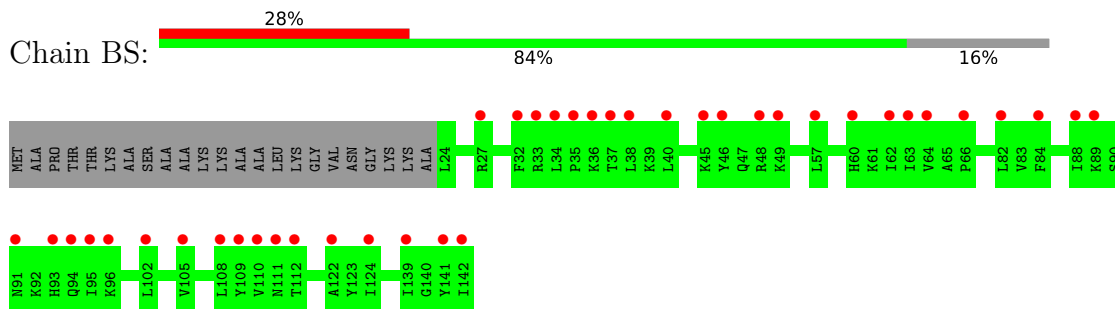
- Molecule 25: 60S ribosomal protein L24-A



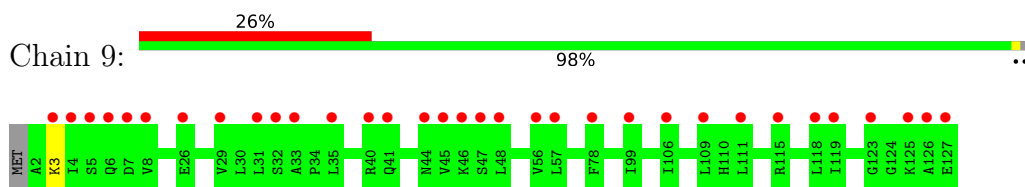
- Molecule 26: 60S ribosomal protein L25



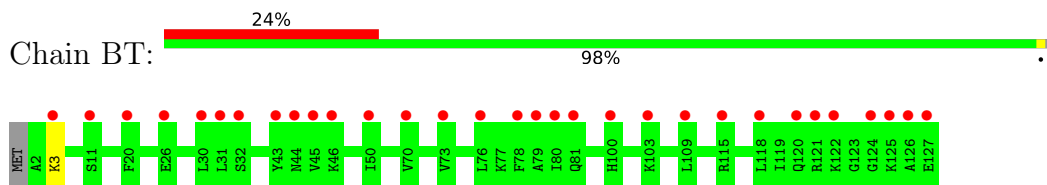
- Molecule 26: 60S ribosomal protein L25



- Molecule 27: Ribosomal protein L24

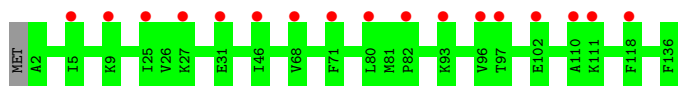


- Molecule 27: Ribosomal protein L24

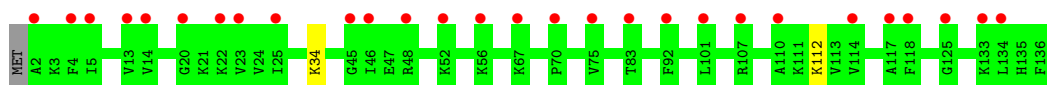


- Molecule 28: 60S ribosomal protein L27

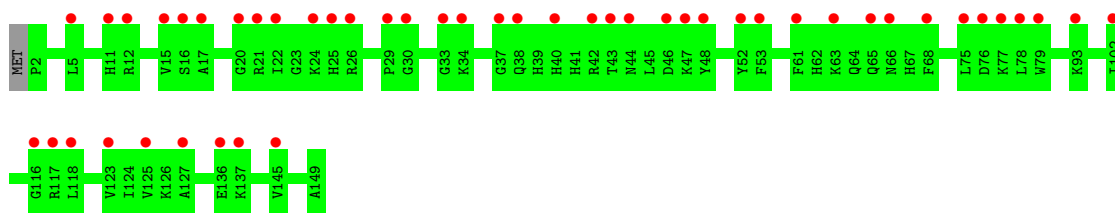




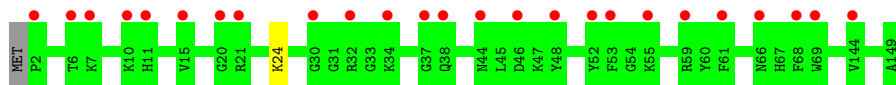
- Molecule 28: 60S ribosomal protein L27



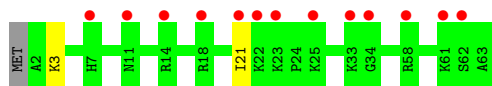
- Molecule 29: 60S ribosomal protein L28



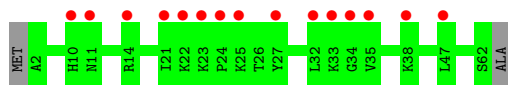
- Molecule 29: 60S ribosomal protein L28



- Molecule 30: 60S ribosomal protein L29

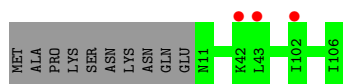


- Molecule 30: 60S ribosomal protein L29

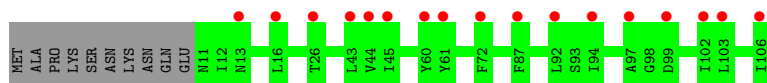


- Molecule 31: 60S ribosomal protein L30

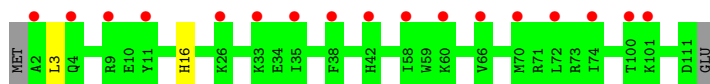




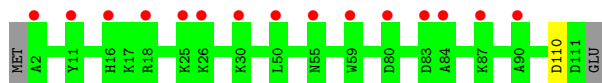
- Molecule 31: 60S ribosomal protein L30



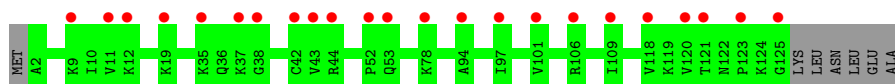
- Molecule 32: 60S ribosomal protein L31-B



- Molecule 32: 60S ribosomal protein L31-B



- Molecule 33: 60S ribosomal protein L32



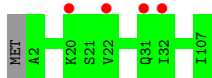
- Molecule 33: 60S ribosomal protein L32



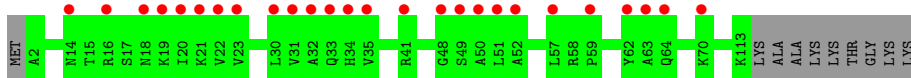
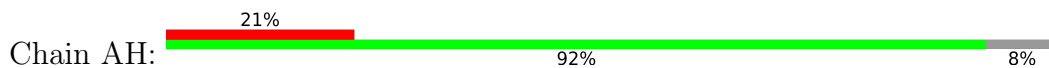
- Molecule 34: 60S ribosomal protein L33-A



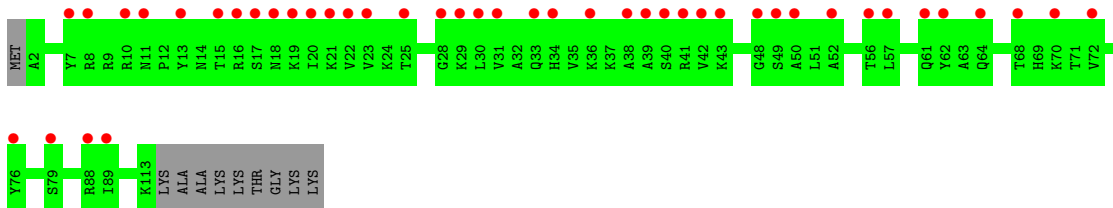
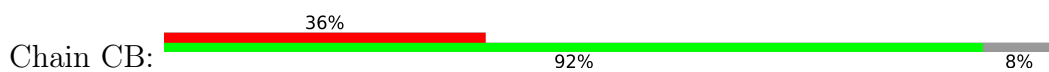
- Molecule 34: 60S ribosomal protein L33-A



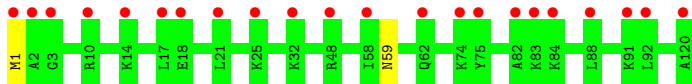
- Molecule 35: 60S ribosomal protein L34-B



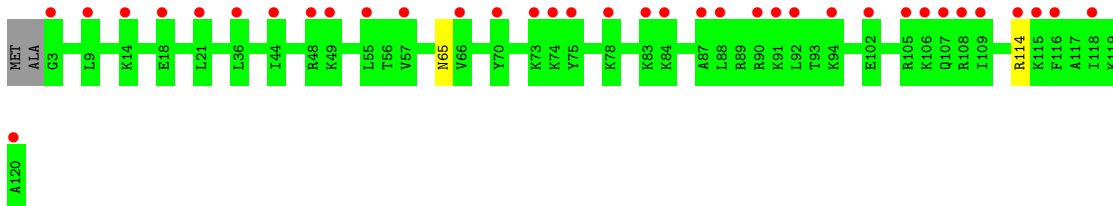
- Molecule 35: 60S ribosomal protein L34-B



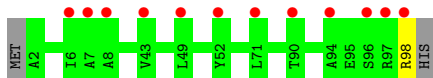
- Molecule 36: Ribosomal protein L29



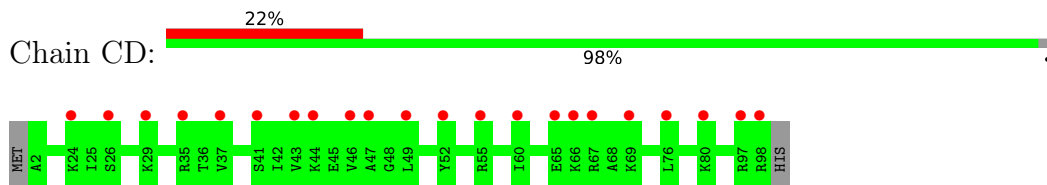
- Molecule 36: Ribosomal protein L29



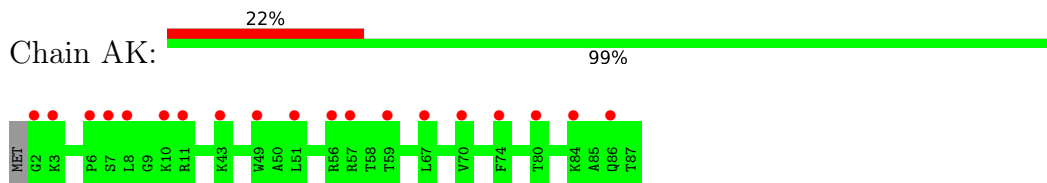
- Molecule 37: 60S ribosomal protein L36



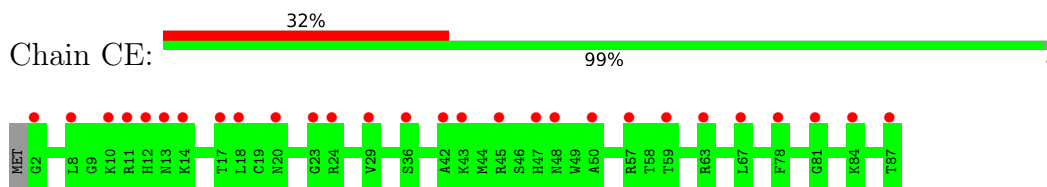
- Molecule 37: 60S ribosomal protein L36



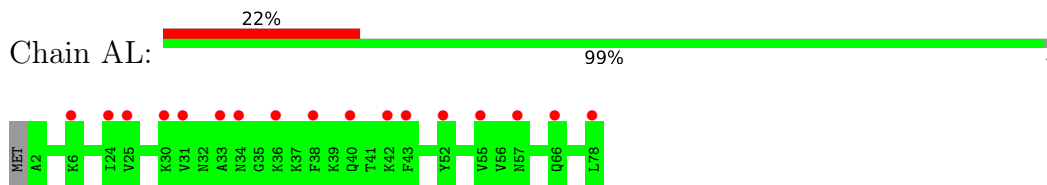
- Molecule 38: 60S ribosomal protein L37-B



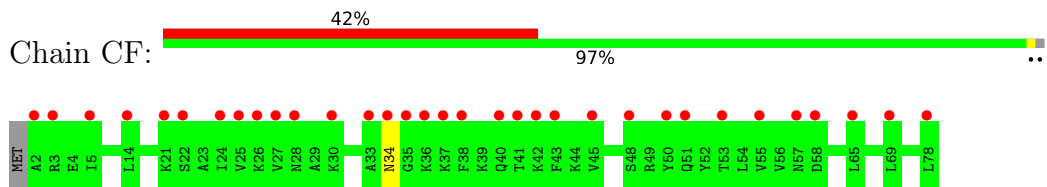
- Molecule 38: 60S ribosomal protein L37-B



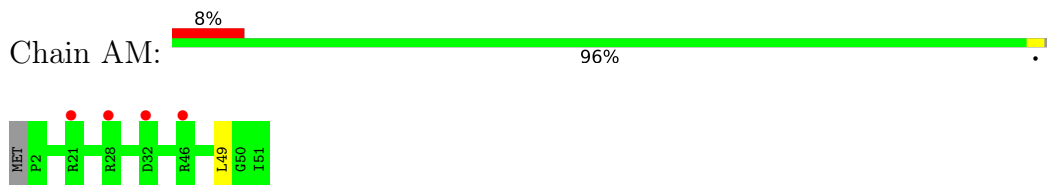
- Molecule 39: 60S ribosomal protein L38



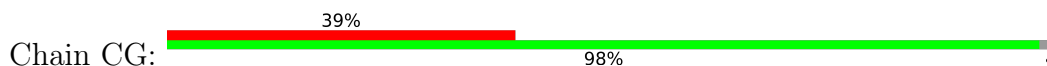
- Molecule 39: 60S ribosomal protein L38



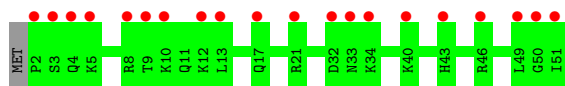
- Molecule 40: 60S ribosomal protein L39



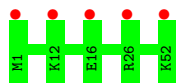
- Molecule 40: 60S ribosomal protein L39



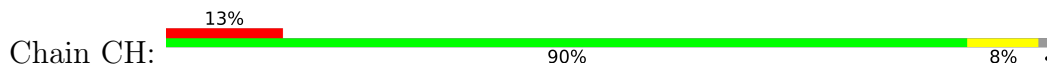




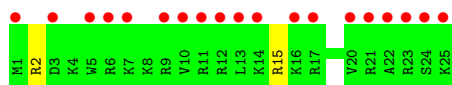
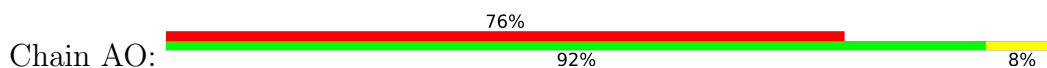
- Molecule 41: 60S ribosomal protein L40-B



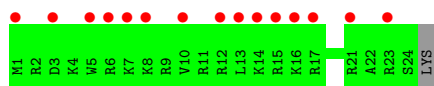
- Molecule 41: 60S ribosomal protein L40-B



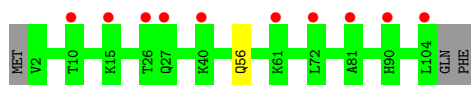
- Molecule 42: 60S ribosomal protein L41



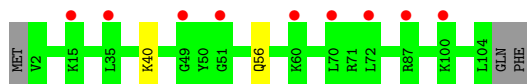
- Molecule 42: 60S ribosomal protein L41



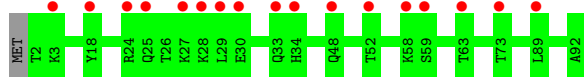
- Molecule 43: 60S ribosomal protein L42-B



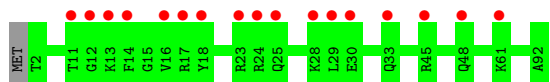
- Molecule 43: 60S ribosomal protein L42-B



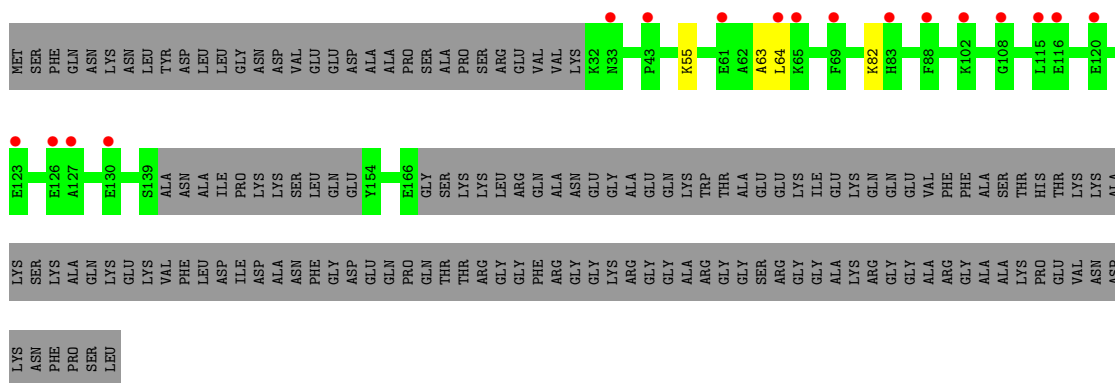
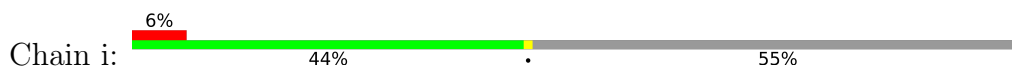
- Molecule 44: 60S ribosomal protein L43-A



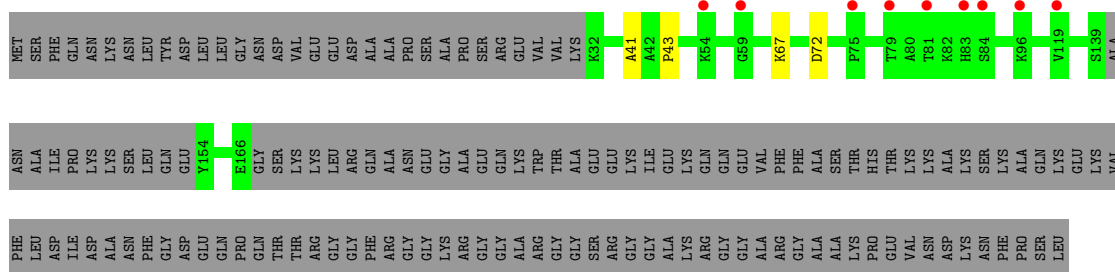
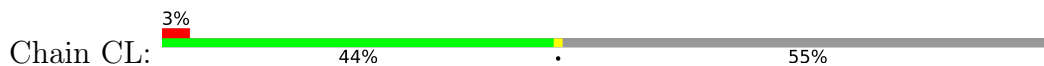
- Molecule 44: 60S ribosomal protein L43-A



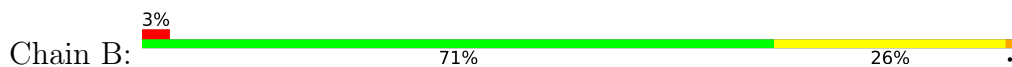
- Molecule 45: 60S ribosomal protein CAALFM\_C304810CA

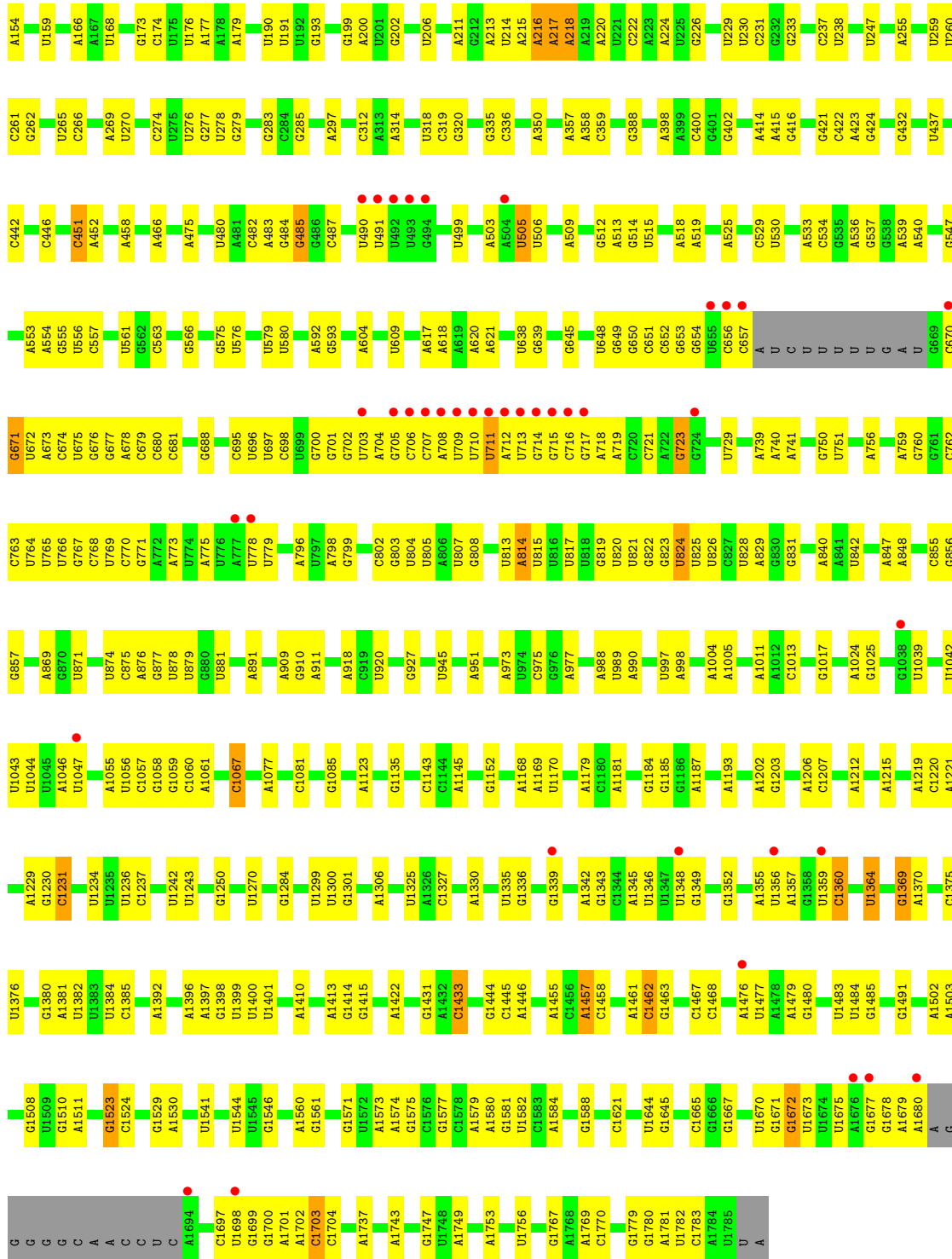


- Molecule 45: 60S ribosomal protein CAALFM\_C304810CA

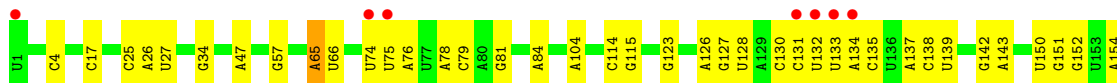
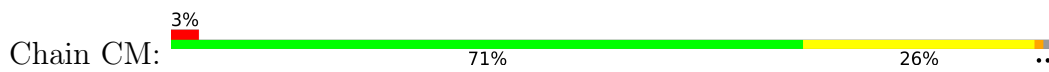


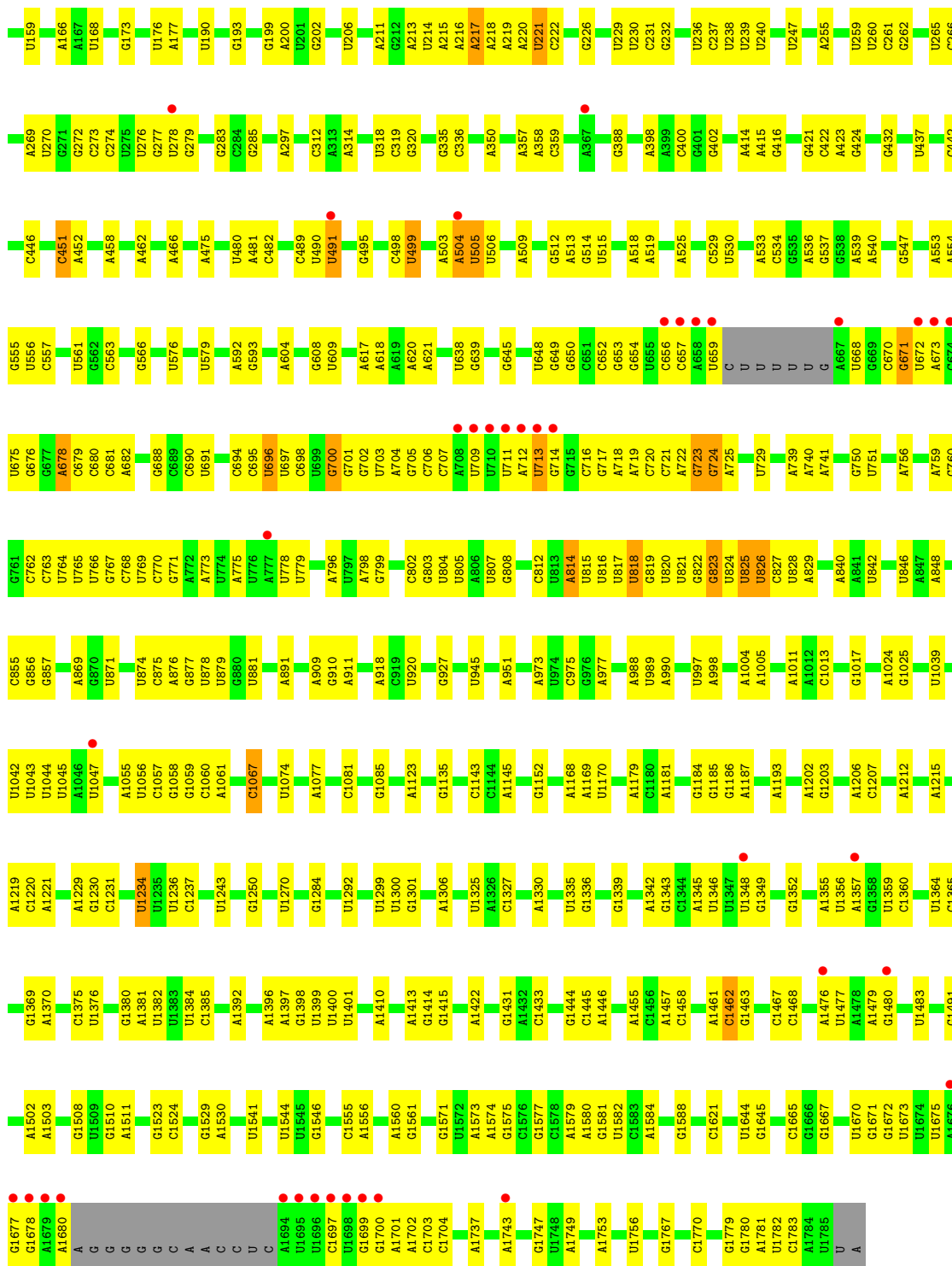
- Molecule 46: 18S



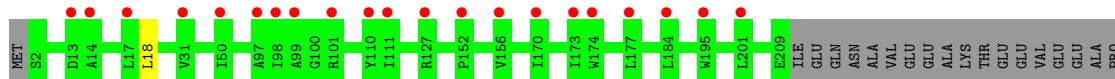
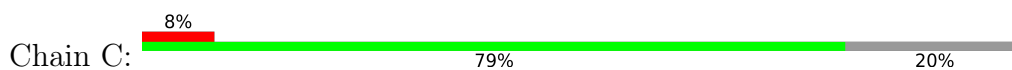


• Molecule 46: 18S



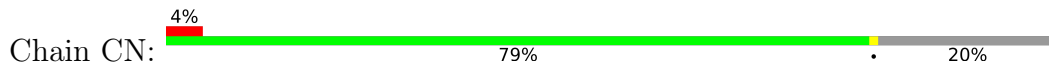


● Molecule 47: 40S ribosomal protein S0



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

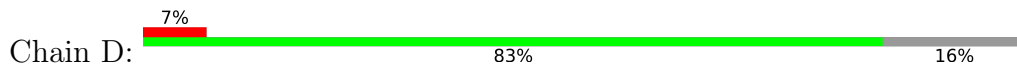
• Molecule 47: 40S ribosomal protein S0



MET S2 L16 M46 R79 L87 R127 Y185 K167 I170 I178 L184 R205 E209  
ILE GLU GLN ASN ALA VAL GLU ALA LYS THR GLU VAL VAL ALA ALA ALA THR TRP THR GLU ASP ASP

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

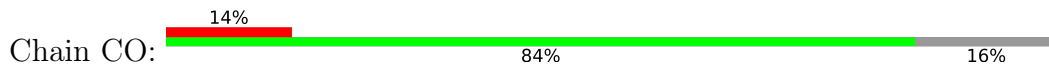
• Molecule 48: 40S ribosomal protein S1



MET  
ALA  
VAL  
GLY  
LYS  
ASN  
LYS  
ARG  
LEU  
SER  
SER  
GLY  
PHE  
LYS  
GLY  
LYS  
LYS  
V20  
V29  
F38  
L47  
L54  
K55  
N56  
A57  
L61  
K62  
G63  
E90  
T98  
K116  
I140  
Q146  
A156  
Q157  
S158  
Y176  
R195  
L217  
G233  
GLU  
GLY  
SER

THR  
GLU  
GLU  
LYS  
GLY  
LYS  
VAL  
SER  
SER  
GLY  
PHE  
LYS  
ASP  
VAL  
VAL  
LEU  
LEU  
GLU  
SER  
VAL

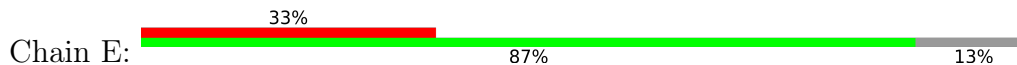
• Molecule 48: 40S ribosomal protein S1



MET  
ALA  
VAL  
GLY  
LYS  
ASN  
LYS  
ARG  
LEU  
SER  
SER  
GLY  
GLY  
LYS  
LYS  
LYS  
LYS  
V20  
F24  
W29  
F30  
F38  
K45  
T46  
L47  
G53  
L54  
K55  
B59  
G60  
L61  
K62  
G63  
R64  
E67  
R85  
E90  
L95  
L97  
T98  
H101  
G102  
H110  
L120  
V121

Y137  
K152  
Y155  
A156  
K216  
L217  
L218  
K219  
Q220  
L225  
H231  
H232  
G233  
GLU  
SER  
THR  
GLU  
GLY  
LYS  
LYS  
VAL  
SER  
SER  
GLY  
PHE  
LYS  
ASP  
VAL  
VAL  
LEU  
SER  
VAL

• Molecule 49: Ribosomal protein S5

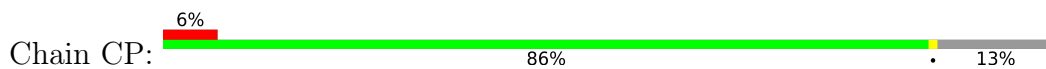


MET  
SER  
ALA  
GLU  
ALA  
PRO  
LYS  
ARG  
GLN  
PHE  
GLY  
ASP  
ARG  
ARG  
ARG  
GLY  
ARG  
GLY  
GLY  
ARG  
ARG  
K28  
S47  
I51  
L56  
P57  
V58  
K59  
T64  
D65  
L66  
K72  
V75  
M76  
K77  
I78  
R79  
S80  
V81  
Q82  
K83  
R86  
A87  
G88  
Q89  
R90  
T91

R92  
M93  
A95  
V96  
L108  
G109  
I110  
K111  
T112  
A113  
K114  
E115  
S118  
A119  
I120  
I124  
K128  
I134  
R135  
L143  
G144  
Q145  
L149  
P150  
C151  
K152  
V153  
T154  
G155  
K156  
V160  
A161  
V162  
R163  
L164  
P168  
K171  
G172  
I173  
V174  
A175  
V178  
V179  
K180  
Q184  
L185

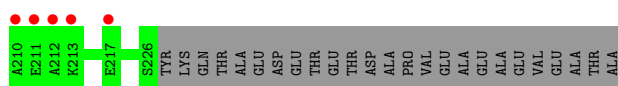
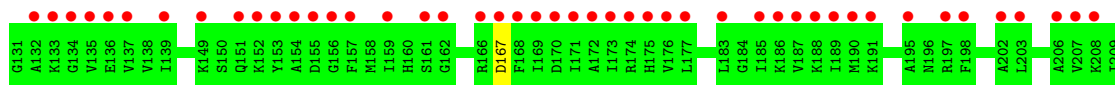
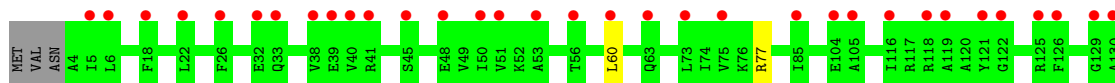
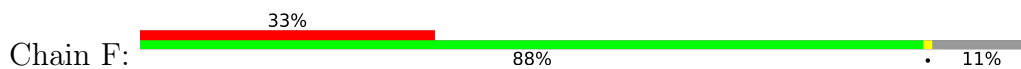
Y188  
E189  
Y192  
T193  
S194  
S195  
S196  
G197  
S198  
T199  
T202  
E203  
M204  
T205  
L206  
A209  
F210  
I213  
L220  
F234  
L235  
A244  
GLY  
LYS  
LYS  
ARG  
TYR

• Molecule 49: Ribosomal protein S5

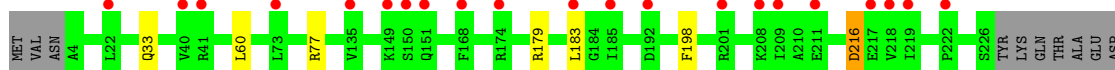
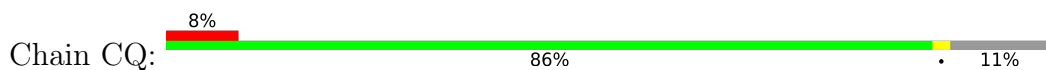


ARG  
TYR

- Molecule 50: Ribosomal protein S3

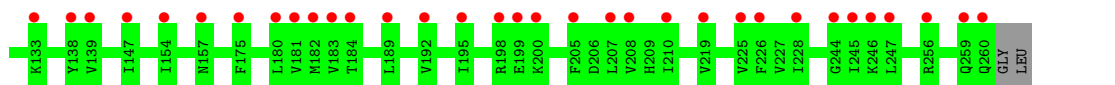
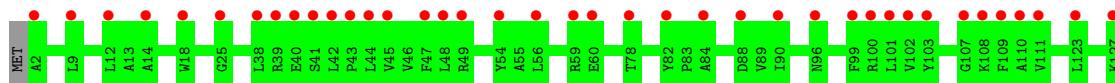


- Molecule 50: Ribosomal protein S3

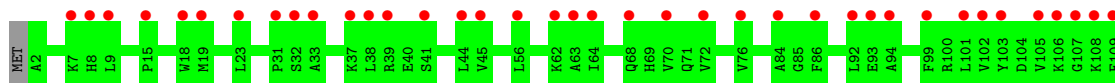


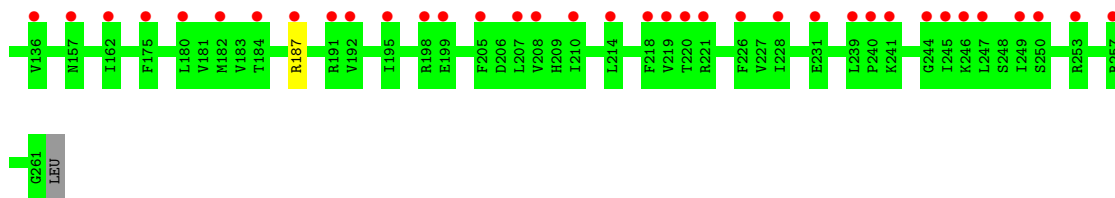
GLU  
THR  
THR  
ASP  
PRO  
VAL  
VAL  
ALA  
ALA  
VAL  
ALA  
ALA  
ALA

- Molecule 51: 40S ribosomal protein S4

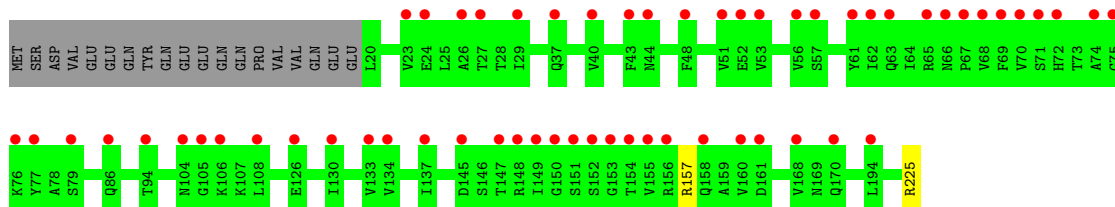
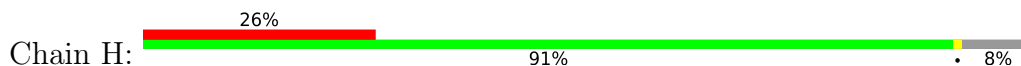


- Molecule 51: 40S ribosomal protein S4

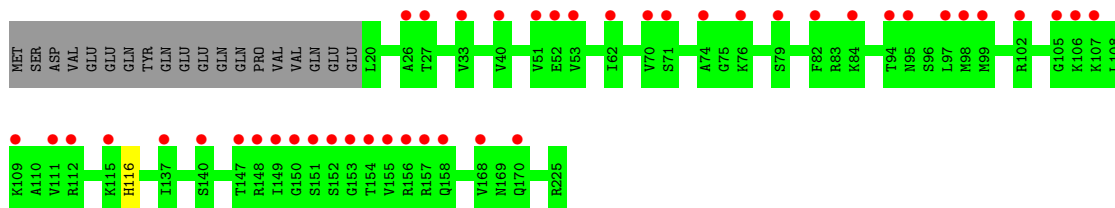




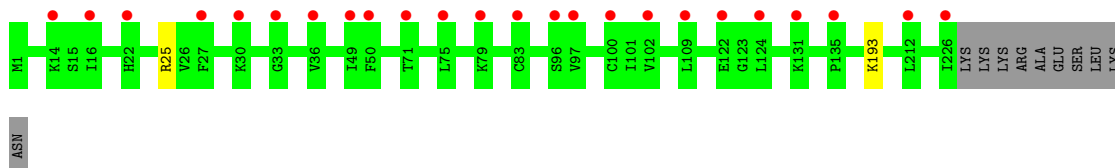
• Molecule 52: Ribosomal protein S7



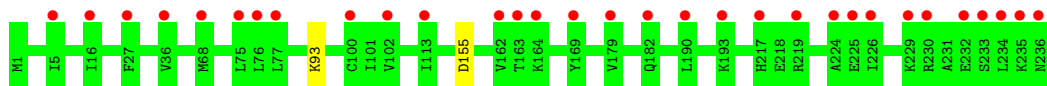
• Molecule 52: Ribosomal protein S7



• Molecule 53: 40S ribosomal protein S6

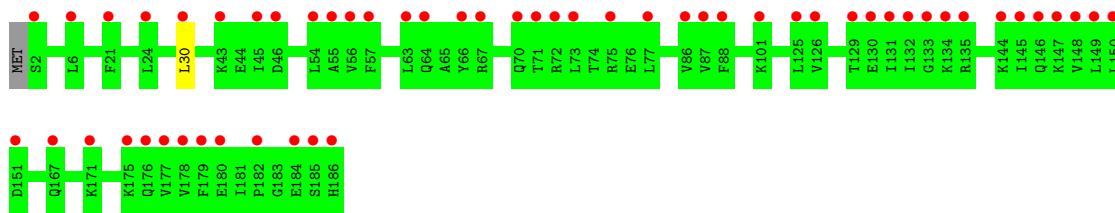


• Molecule 53: 40S ribosomal protein S6

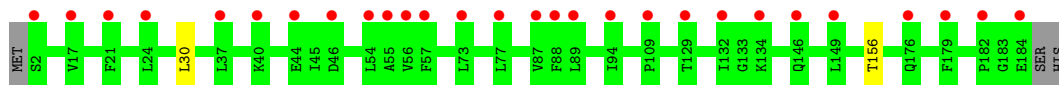


• Molecule 54: 40S ribosomal protein S7

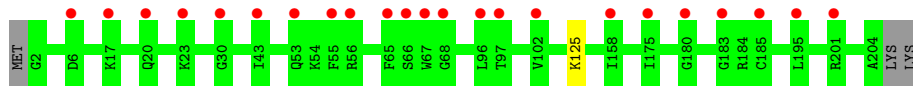




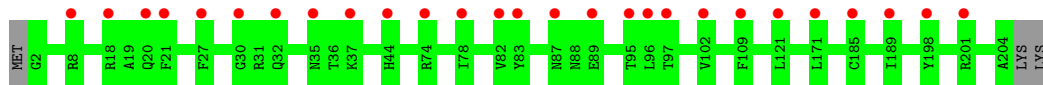
• Molecule 54: 40S ribosomal protein S7



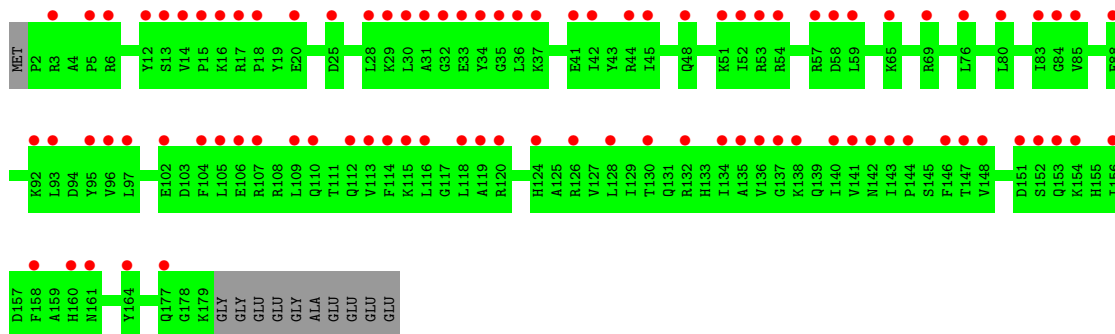
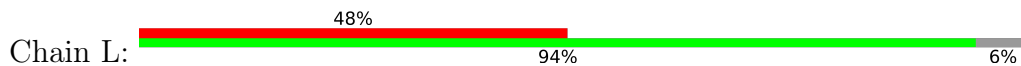
• Molecule 55: 40S ribosomal protein S8



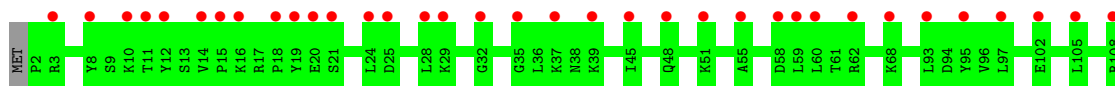
• Molecule 55: 40S ribosomal protein S8



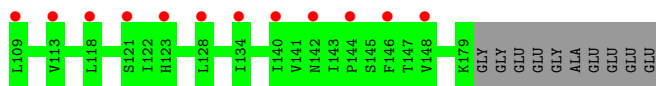
• Molecule 56: Ribosomal protein S4



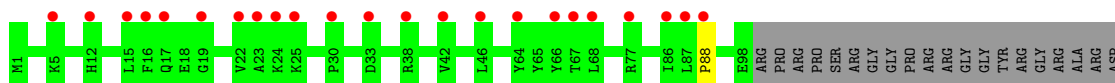
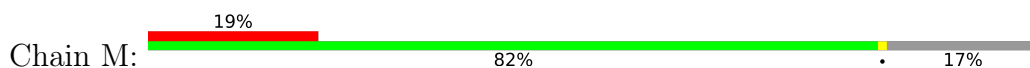
• Molecule 56: Ribosomal protein S4



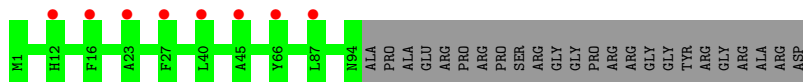
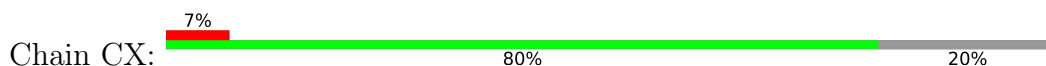




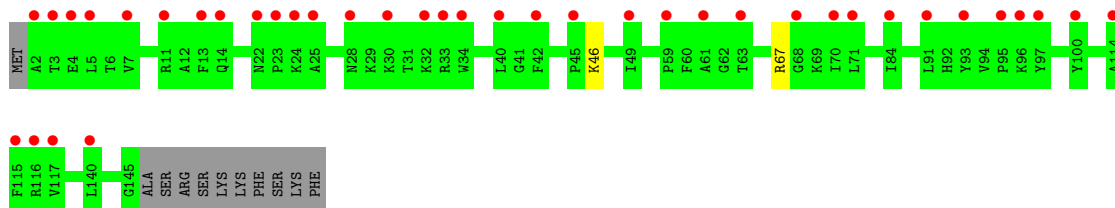
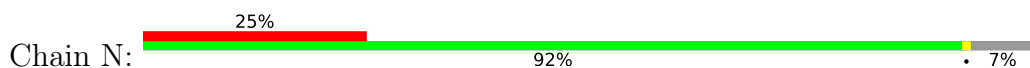
- Molecule 57: 40S ribosomal protein S10-A



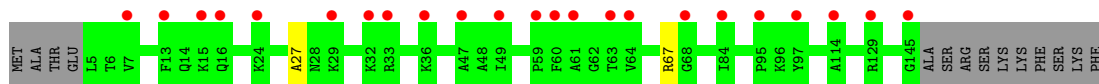
- Molecule 57: 40S ribosomal protein S10-A



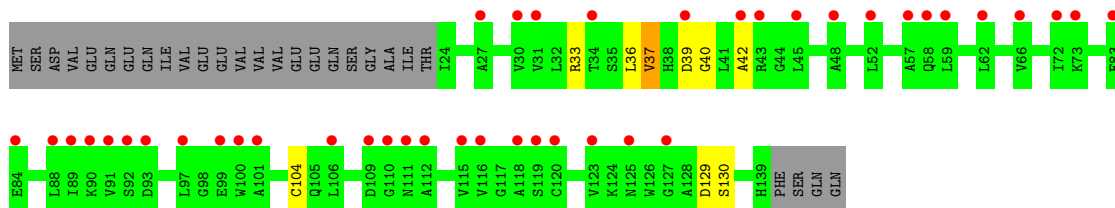
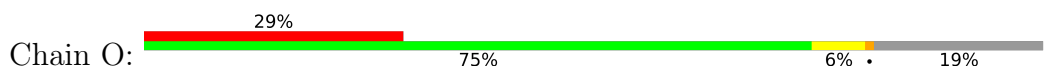
- Molecule 58: 40S ribosomal protein S11A



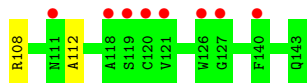
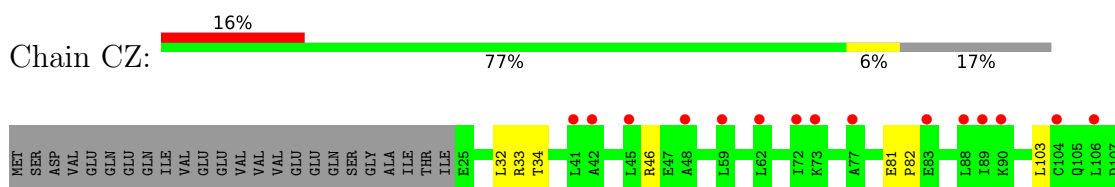
- Molecule 58: 40S ribosomal protein S11A



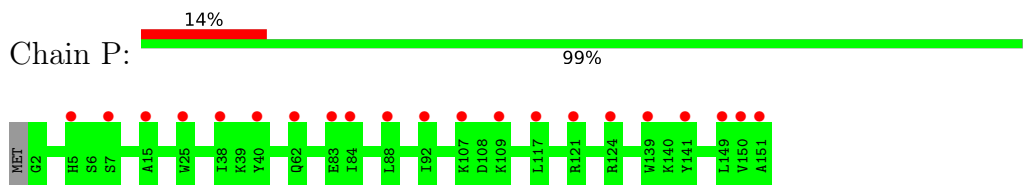
- Molecule 59: 40S ribosomal protein S12



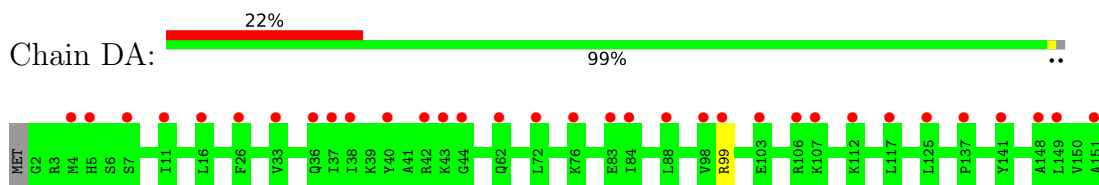
- Molecule 59: 40S ribosomal protein S12



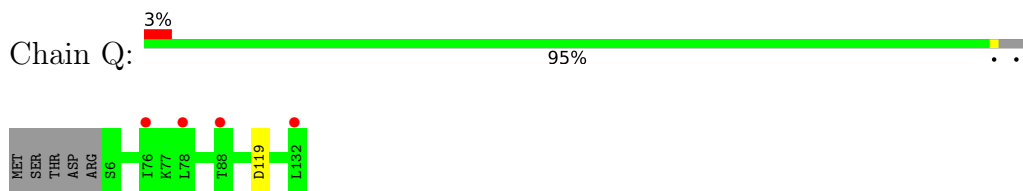
- Molecule 60: 40S ribosomal protein S13



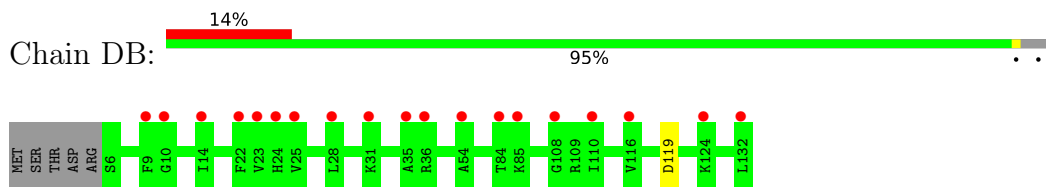
- Molecule 60: 40S ribosomal protein S13



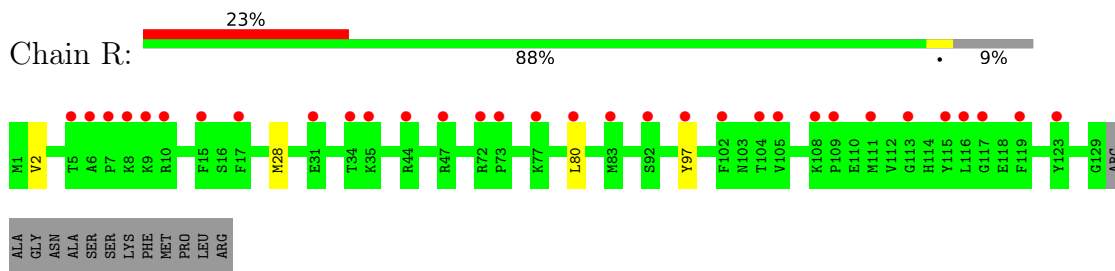
- Molecule 61: 40S ribosomal protein S14-A



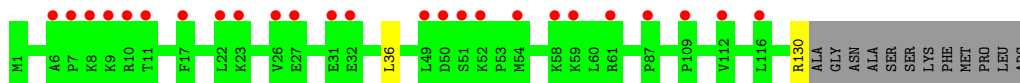
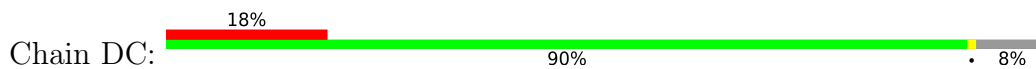
- Molecule 61: 40S ribosomal protein S14-A



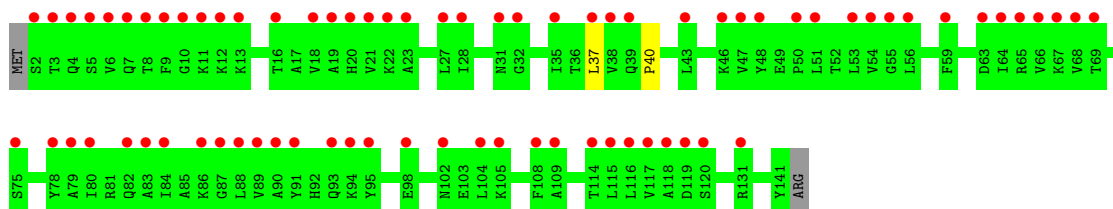
- Molecule 62: 40S ribosomal protein S15



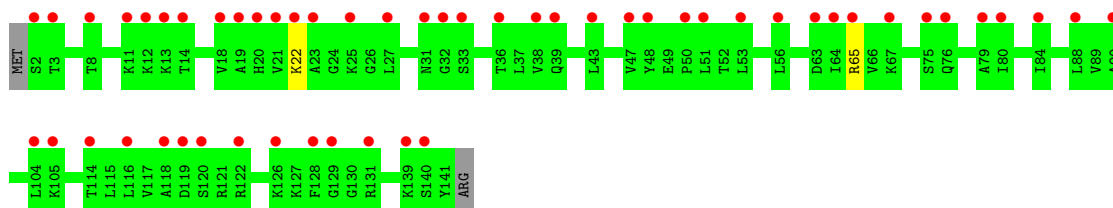
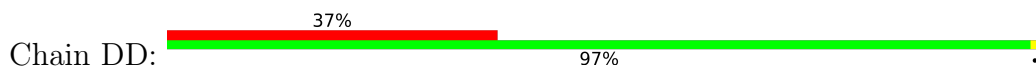
- Molecule 62: 40S ribosomal protein S15



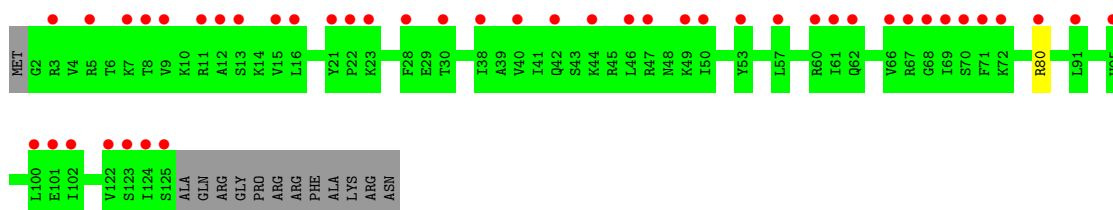
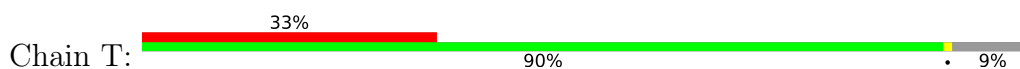
- Molecule 63: 40S ribosomal protein S16



- Molecule 63: 40S ribosomal protein S16



- Molecule 64: 40S ribosomal protein S17-B



- Molecule 64: 40S ribosomal protein S17-B



- Molecule 65: 40S ribosomal protein S18-B

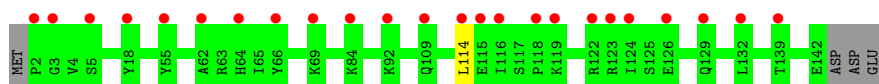




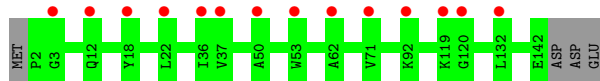
- Molecule 65: 40S ribosomal protein S18-B



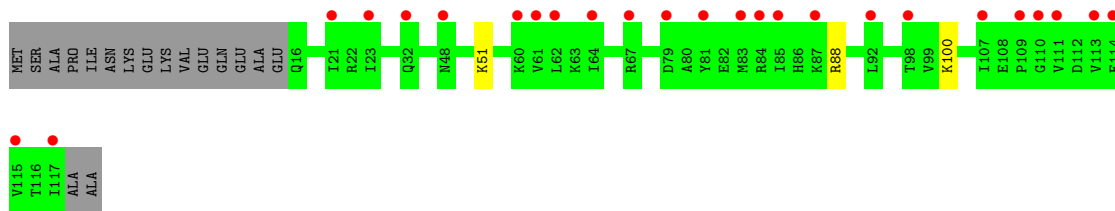
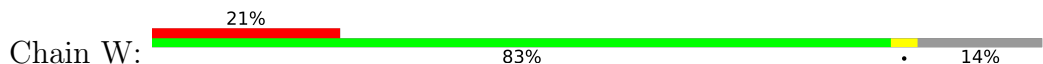
- Molecule 66: 40S ribosomal protein S19-A



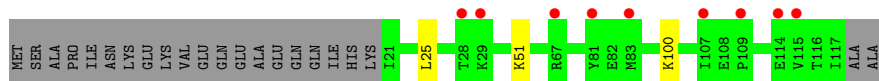
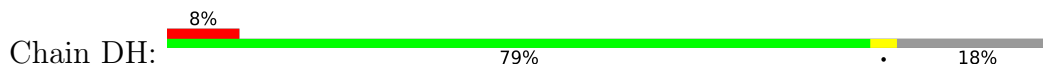
- Molecule 66: 40S ribosomal protein S19-A



- Molecule 67: Ribosomal protein S10

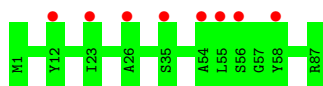


- Molecule 67: Ribosomal protein S10



- Molecule 68: 40S ribosomal protein S21



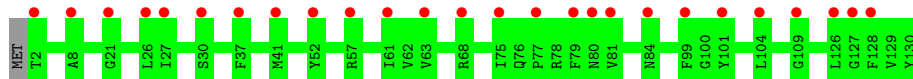


- Molecule 68: 40S ribosomal protein S21



There are no outlier residues recorded for this chain.

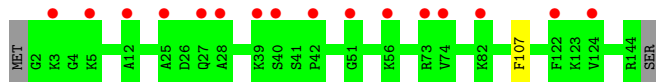
- Molecule 69: 40S ribosomal protein S22-A



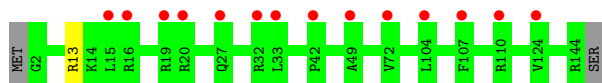
- Molecule 69: 40S ribosomal protein S22-A



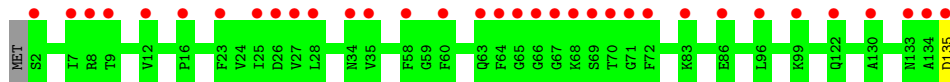
- Molecule 70: Ribosomal protein S23 (S12)



- Molecule 70: Ribosomal protein S23 (S12)

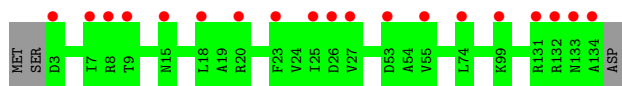


- Molecule 71: 40S ribosomal protein S24

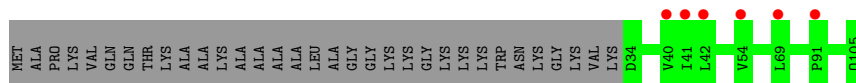


- Molecule 71: 40S ribosomal protein S24

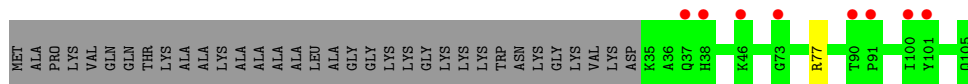




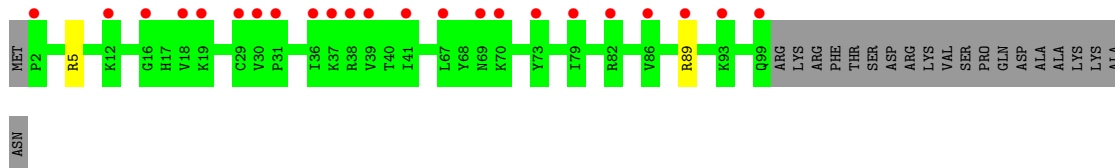
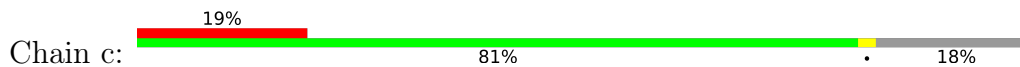
• Molecule 72: 40S ribosomal protein S25



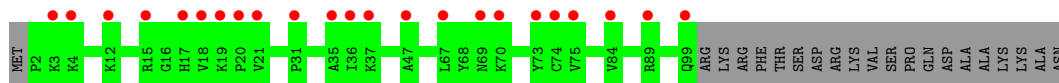
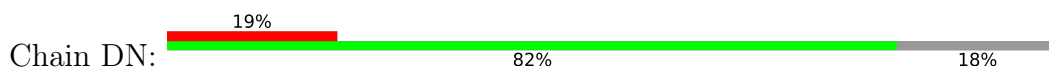
• Molecule 72: 40S ribosomal protein S25



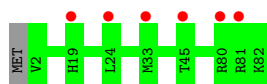
• Molecule 73: 40S ribosomal protein S26



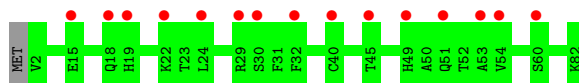
• Molecule 73: 40S ribosomal protein S26



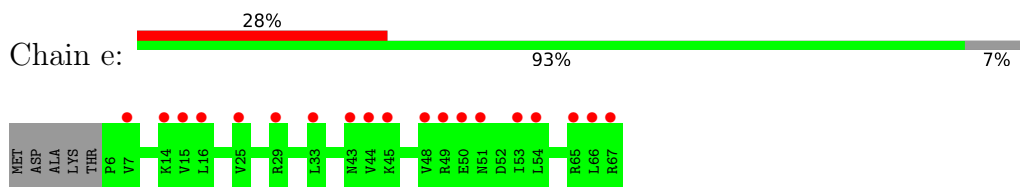
• Molecule 74: 40S ribosomal protein S27



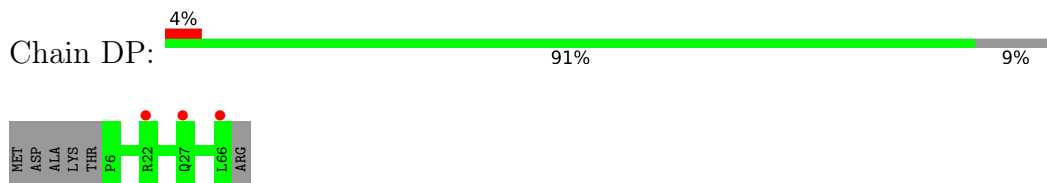
• Molecule 74: 40S ribosomal protein S27



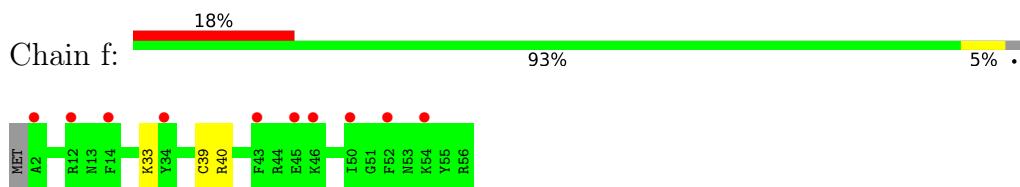
- Molecule 75: 40S ribosomal protein S28-B



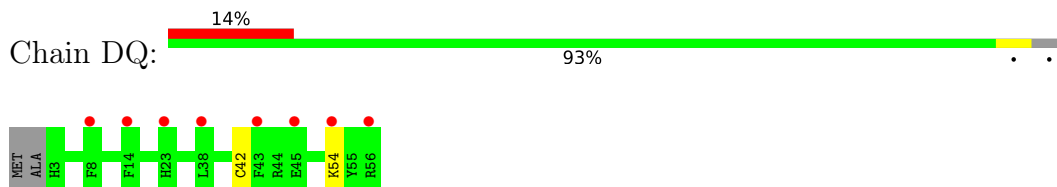
- Molecule 75: 40S ribosomal protein S28-B



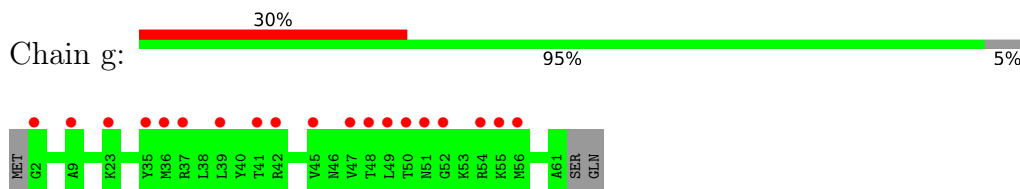
- Molecule 76: 40S ribosomal protein S29A



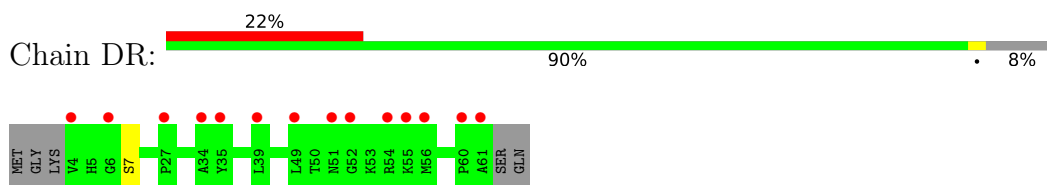
- Molecule 76: 40S ribosomal protein S29A



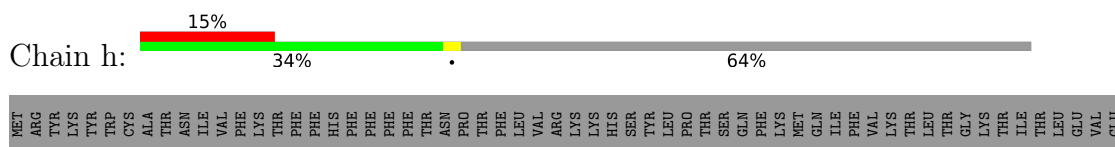
- Molecule 77: 40S ribosomal protein S30

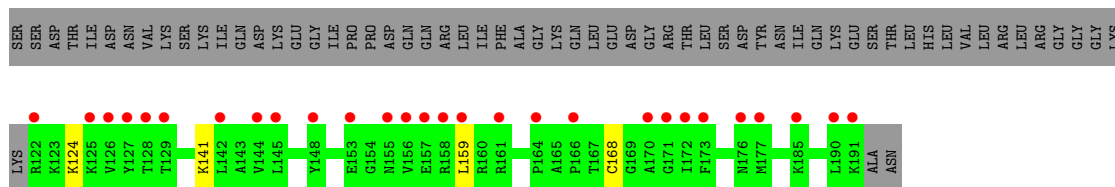


- Molecule 77: 40S ribosomal protein S30

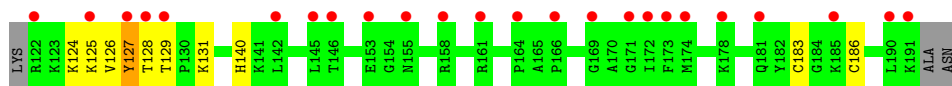
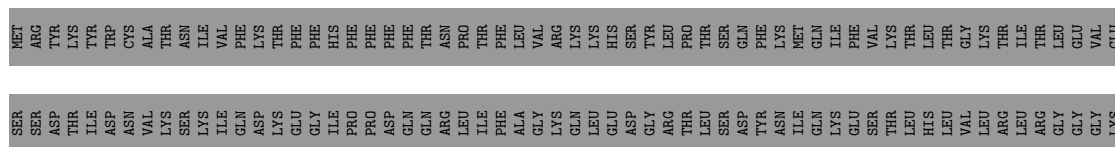


- Molecule 78: Ubiquitin-40S ribosomal protein S31 fusion protein

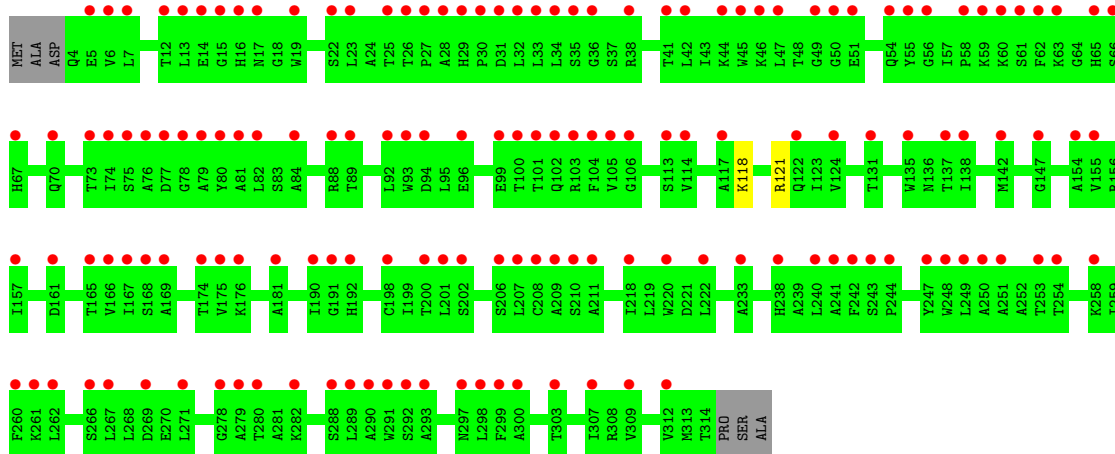




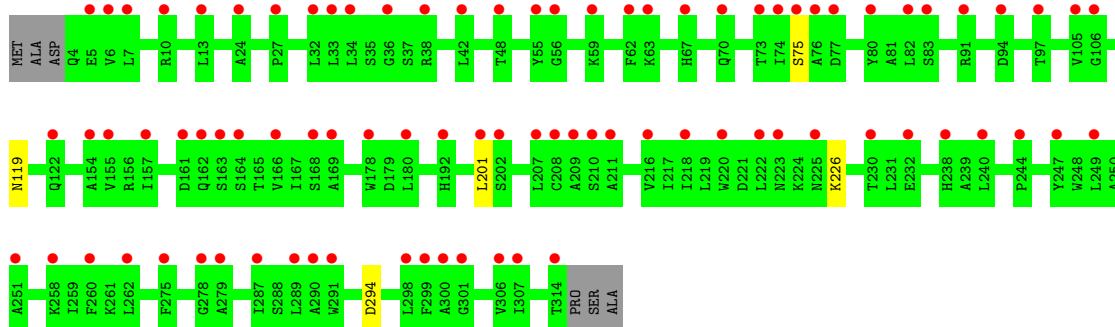
• Molecule 78: Ubiquitin-40S ribosomal protein S31 fusion protein



• Molecule 79: Guanine nucleotide-binding protein subunit beta-like protein



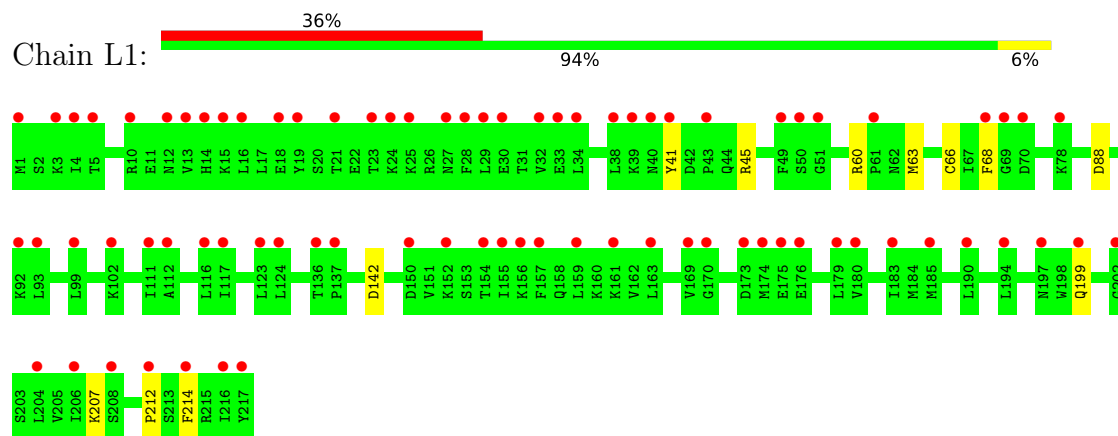
• Molecule 79: Guanine nucleotide-binding protein subunit beta-like protein



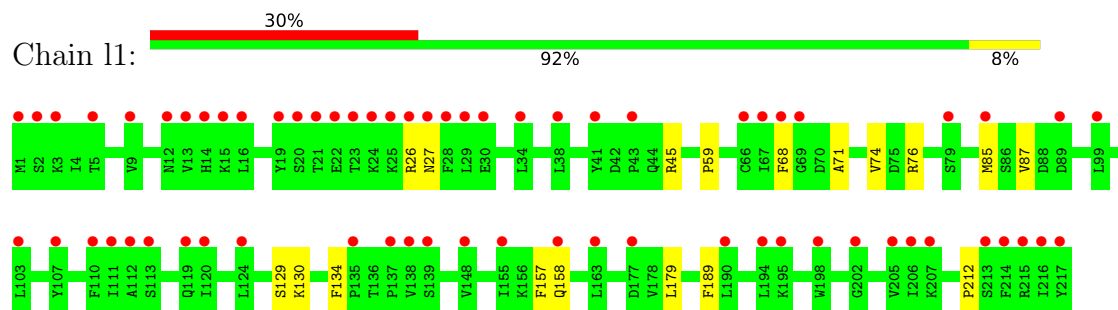




## ● Molecule 82: Ribosomal protein



## ● Molecule 82: Ribosomal protein



## 4 Data and refinement statistics

Property	Value	Source
Space group	P 1 21 1	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	298.96Å 294.09Å 450.21Å 90.00° 100.12° 90.00°	Depositor
Resolution (Å)	227.46 – 3.00 267.82 – 3.00	Depositor EDS
% Data completeness (in resolution range)	99.4 (227.46-3.00) 89.8 (267.82-3.00)	Depositor EDS
$R_{merge}$	(Not available)	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	0.95 (at 3.01Å)	Xtrriage
Refinement program	PHENIX 19.2	Depositor
R, $R_{free}$	0.268 , 0.299 0.270 , 0.301	Depositor DCC
$R_{free}$ test set	2000 reflections (0.13%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	53.4	Xtrriage
Anisotropy	0.128	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.21 , 28.7	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.42$ , $\langle L^2 \rangle = 0.25$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.84	EDS
Total number of atoms	410139	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	88.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.40% of the height of the origin peak. No significant pseudotranslation is detected.*

<sup>1</sup>Intensities estimated from amplitudes.

<sup>2</sup>Theoretical 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, ZN, TIX, MG

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	0.30	1/76970 (0.0%)	0.90	96/119993 (0.1%)
1	AS	0.30	0/77254	0.90	94/120438 (0.1%)
2	3	0.25	0/2884	0.78	0/4492
2	AT	0.25	0/2884	0.79	0/4492
3	4	0.25	0/3724	0.81	1/5798 (0.0%)
3	AU	0.24	0/3746	0.81	2/5832 (0.0%)
4	AW	0.27	0/1931	0.57	0/2592
4	j	0.27	0/1931	0.59	0/2592
5	AX	0.27	0/3145	0.57	0/4231
5	k	0.27	0/3156	0.57	1/4246 (0.0%)
6	AY	0.26	0/2799	0.54	0/3777
6	l	0.27	0/2799	0.55	0/3777
7	AZ	0.26	0/2447	0.52	0/3294
7	m	0.26	0/2479	0.53	0/3337
8	BA	0.28	0/1231	0.55	0/1662
8	n	0.28	0/1263	0.55	0/1703
9	BB	0.27	0/1918	0.51	0/2575
9	o	0.28	0/1918	0.53	0/2575
10	BC	0.26	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	0.27	0/1724	0.57	0/2314
12	r	0.27	0/1724	0.57	0/2314
13	BF	0.26	0/1390	0.58	0/1861
13	s	0.26	0/1390	0.58	0/1861
14	BG	0.25	0/1637	0.55	0/2195
14	t	0.28	0/1637	0.57	0/2195
15	BH	0.27	0/1044	0.54	0/1407
15	u	0.26	0/1044	0.54	0/1407
16	BI	0.26	0/1753	0.60	0/2347
16	v	0.27	0/1753	0.60	0/2347

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
17	BJ	0.27	0/1620	0.53	0/2167
17	w	0.27	0/1620	0.53	0/2167
18	BK	0.25	0/1429	0.57	0/1920
18	x	0.26	0/1410	0.58	0/1895
19	BL	0.27	0/1482	0.59	0/1985
19	y	0.27	0/1482	0.59	0/1985
20	BM	0.25	0/1475	0.59	0/1961
20	z	0.26	0/1475	0.60	0/1961
21	0	0.27	0/1457	0.57	0/1962
21	BN	0.26	0/1457	0.54	0/1962
22	2	0.26	0/1285	0.53	0/1723
22	BO	0.27	0/1285	0.54	0/1723
23	5	0.26	0/846	0.47	0/1140
23	BP	0.28	0/866	0.51	0/1168
24	6	0.28	0/993	0.57	0/1339
24	BQ	0.28	0/993	0.59	0/1339
25	7	0.26	0/958	0.53	0/1267
25	BR	0.25	0/814	0.54	0/1079
26	8	0.26	0/990	0.54	0/1337
26	BS	0.25	0/976	0.52	0/1319
27	9	0.25	0/999	0.53	0/1334
27	BT	0.26	0/999	0.54	0/1334
28	AA	0.27	0/1112	0.48	0/1488
28	BU	0.26	0/1112	0.49	0/1488
29	AB	0.26	0/1199	0.55	0/1607
29	BV	0.26	0/1199	0.54	0/1607
30	AC	0.27	0/503	0.59	0/668
30	BW	0.24	0/498	0.53	0/661
31	AD	0.26	0/738	0.48	0/994
31	BX	0.26	0/738	0.49	0/994
32	AE	0.25	0/907	0.57	1/1219 (0.1%)
32	BY	0.24	0/907	0.57	0/1219
33	AF	0.26	0/1021	0.54	0/1368
33	BZ	0.25	0/1025	0.56	0/1372
34	AG	0.28	0/866	0.55	0/1165
34	CA	0.28	0/866	0.54	0/1165
35	AH	0.25	0/896	0.59	0/1195
35	CB	0.25	0/896	0.59	0/1195
36	AI	0.26	0/1012	0.56	0/1347
36	CC	0.24	0/999	0.55	0/1330
37	AJ	0.25	0/763	0.58	0/1012
37	CD	0.26	0/763	0.58	0/1012
38	AK	0.27	0/690	0.60	0/916

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
38	CE	0.26	0/690	0.61	0/916
39	AL	0.26	0/623	0.49	0/831
39	CF	0.27	0/623	0.58	0/831
40	AM	0.26	0/447	0.59	0/594
40	CG	0.27	0/458	0.64	0/609
41	AN	0.26	0/425	0.58	0/563
41	CH	0.29	0/417	0.59	0/553
42	AO	0.26	0/237	0.72	0/304
42	CI	0.27	0/228	0.72	0/293
43	AP	0.28	0/840	0.55	0/1110
43	CJ	0.28	0/840	0.55	0/1110
44	AQ	0.30	0/705	0.62	0/940
44	CK	0.26	0/705	0.59	0/940
45	CL	0.31	0/941	0.64	0/1257
45	i	0.28	0/941	0.67	0/1257
46	B	0.29	0/41987	0.94	70/65427 (0.1%)
46	CM	0.30	0/42081	0.94	63/65573 (0.1%)
47	C	0.25	0/1666	0.51	0/2273
47	CN	0.26	0/1666	0.52	0/2273
48	CO	0.26	0/1750	0.58	0/2354
48	D	0.25	0/1750	0.55	0/2354
49	CP	0.27	0/1657	0.54	0/2248
49	E	0.25	0/1657	0.52	0/2248
50	CQ	0.27	0/1731	0.63	3/2324 (0.1%)
50	F	0.27	0/1731	0.61	1/2324 (0.0%)
51	CR	0.26	0/2096	0.56	0/2822
51	G	0.26	0/2092	0.56	0/2817
52	CS	0.25	0/1631	0.54	0/2199
52	H	0.25	0/1631	0.56	0/2199
53	CT	0.27	0/1929	0.58	0/2571
53	I	0.25	0/1845	0.56	0/2464
54	CU	0.27	0/1499	0.56	0/2016
54	J	0.25	0/1516	0.55	0/2039
55	CV	0.27	0/1606	0.61	0/2150
55	K	0.27	0/1606	0.60	0/2150
56	CW	0.26	0/1478	0.56	0/1978
56	L	0.26	0/1478	0.57	0/1978
57	CX	0.29	0/809	0.57	0/1092
57	M	0.29	0/836	0.62	0/1130
58	CY	0.28	0/1154	0.58	0/1553
58	N	0.27	0/1175	0.58	0/1582
59	CZ	0.31	0/921	0.86	1/1240 (0.1%)
59	O	0.31	0/892	0.72	0/1203

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
60	DA	0.25	0/1210	0.54	0/1631
60	P	0.25	0/1210	0.51	0/1631
61	DB	0.30	0/953	0.65	0/1279
61	Q	0.30	0/953	0.64	0/1279
62	DC	0.29	0/1049	0.60	0/1409
62	R	0.30	0/1038	0.62	1/1395 (0.1%)
63	DD	0.25	0/1109	0.54	0/1486
63	S	0.27	0/1109	0.57	0/1486
64	DE	0.28	0/1009	0.63	0/1354
64	T	0.26	0/1009	0.63	0/1354
65	DF	0.26	0/1178	0.58	0/1579
65	U	0.27	0/1205	0.59	0/1615
66	DG	0.26	0/1120	0.55	0/1508
66	V	0.27	0/1120	0.59	1/1508 (0.1%)
67	DH	0.26	0/772	0.59	1/1045 (0.1%)
67	W	0.25	0/818	0.56	0/1106
68	DI	0.28	0/683	0.59	0/918
68	X	0.26	0/683	0.58	0/918
69	DJ	0.26	0/1049	0.56	0/1412
69	Y	0.25	0/1049	0.54	0/1412
70	DK	0.28	0/1128	0.59	0/1505
70	Z	0.28	0/1128	0.62	0/1505
71	DL	0.27	0/1086	0.58	0/1447
71	a	0.26	0/1100	0.56	0/1466
72	DM	0.26	0/577	0.57	0/778
72	b	0.24	0/585	0.52	0/789
73	DN	0.26	0/791	0.61	0/1060
73	c	0.27	0/791	0.62	0/1060
74	DO	0.28	0/624	0.59	0/843
74	d	0.26	0/624	0.54	0/843
75	DP	0.34	0/478	0.73	0/640
75	e	0.27	0/489	0.68	0/654
76	DQ	0.29	0/461	0.62	0/613
76	f	0.30	0/466	0.65	1/620 (0.2%)
77	DR	0.31	0/469	0.72	0/626
77	g	0.28	0/482	0.63	0/642
78	DS	0.34	0/585	0.75	0/778
78	h	0.26	0/585	0.69	1/778 (0.1%)
79	AR	0.27	0/2451	0.56	0/3337
79	DT	0.27	0/2451	0.60	0/3337
80	P0	0.26	0/857	0.56	0/1148
80	p0	0.27	0/857	0.63	1/1148 (0.1%)
81	12	0.26	0/486	0.51	0/653

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z  >5	RMSZ	# Z  >5
82	L1	0.26	0/1737	0.52	0/2335
82	l1	0.27	0/1737	0.55	0/2335
All	All	0.28	1/438315 (0.0%)	0.79	339/642822 (0.1%)

All (1) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	1	2482	U	C1'-N1	5.94	1.57	1.48

All (339) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AS	1267	A	O5'-P-OP2	-14.80	92.38	105.70
46	B	676	G	O4'-C1'-N9	11.57	117.45	108.20
1	AS	487	C	O5'-P-OP1	-11.41	95.43	105.70
59	CZ	81	GLU	C-N-CD	-11.20	95.95	120.60
1	1	1228	C	C6-N1-C2	-11.16	115.83	120.30
1	AS	1228	C	C2-N1-C1'	10.08	129.88	118.80
1	1	1228	C	C2-N1-C1'	9.94	129.74	118.80
1	1	1738	U	P-O3'-C3'	-9.65	108.12	119.70
1	AS	1738	U	P-O3'-C3'	-9.47	108.34	119.70
1	AS	1252	G	C8-N9-C1'	-9.34	114.85	127.00
1	AS	1252	G	C4-N9-C1'	9.23	138.50	126.50
46	B	824	U	O4'-C1'-N1	-9.10	100.92	108.20
1	1	1230	G	O4'-C1'-N9	8.85	115.28	108.20
1	1	1737	A	P-O3'-C3'	-8.71	109.24	119.70
1	AS	1228	C	C6-N1-C1'	-8.70	110.36	120.80
1	1	1228	C	C6-N1-C1'	-8.47	110.63	120.80
46	B	451	C	N1-C2-O2	8.38	123.93	118.90
50	F	60	LEU	CA-CB-CG	8.31	134.41	115.30
46	CM	451	C	N1-C2-O2	8.30	123.88	118.90
46	B	721	C	O4'-C1'-N1	8.05	114.64	108.20
46	CM	482	C	O4'-C1'-N1	8.05	114.64	108.20
1	AS	1737	A	P-O3'-C3'	-8.01	110.09	119.70
1	AS	1252	G	C6-C5-N7	-7.96	125.62	130.40
1	1	3160	C	C2-N1-C1'	7.95	127.55	118.80
1	1	1228	C	C5-C6-N1	7.90	124.95	121.00
1	1	401	U	O4'-C1'-N1	7.85	114.48	108.20
1	1	1255	A	O4'-C1'-N9	7.75	114.40	108.20
46	CM	272	G	O5'-P-OP2	-7.68	98.79	105.70
46	CM	656	C	N1-C2-O2	7.62	123.47	118.90
1	AS	1228	C	N1-C2-O2	7.55	123.43	118.90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	481	A	O4'-C1'-N9	7.55	114.24	108.20
46	B	451	C	C2-N1-C1'	7.52	127.07	118.80
46	CM	1375	C	C2-N1-C1'	7.48	127.03	118.80
1	1	1273	C	C2-N1-C1'	7.46	127.01	118.80
46	B	1046	A	C8-N9-C4	-7.45	102.82	105.80
46	B	656	C	C2-N1-C1'	7.41	126.95	118.80
1	1	2814	U	C2-N1-C1'	7.34	126.51	117.70
1	AS	1231	U	N3-C4-O4	7.33	124.53	119.40
46	B	485	G	C4-N9-C1'	7.33	136.02	126.50
1	1	1229	G	C8-N9-C1'	-7.30	117.51	127.00
46	CM	696	U	O5'-P-OP1	-7.28	99.14	105.70
1	1	2638	C	C5-C6-N1	7.25	124.63	121.00
1	AS	1228	C	C5-C6-N1	7.25	124.62	121.00
46	CM	217	A	C8-N9-C4	-7.24	102.91	105.80
46	CM	451	C	C2-N1-C1'	7.18	126.69	118.80
1	1	977	U	C2-N1-C1'	7.17	126.30	117.70
3	AU	39	G	O4'-C1'-N9	7.14	113.91	108.20
1	AS	1252	G	N3-C4-N9	7.12	130.27	126.00
1	AS	977	U	C2-N1-C1'	7.11	126.23	117.70
46	CM	451	C	N3-C2-O2	-7.04	116.97	121.90
1	AS	2814	U	C2-N1-C1'	7.04	126.15	117.70
46	B	656	C	N1-C2-O2	7.02	123.11	118.90
46	CM	696	U	C5-C6-N1	6.97	126.19	122.70
46	B	671	G	O4'-C1'-N9	6.92	113.73	108.20
1	AS	1231	U	C5-C4-O4	-6.91	121.75	125.90
46	CM	814	A	P-O3'-C3'	6.89	127.97	119.70
1	AS	480	G	C8-N9-C4	-6.88	103.65	106.40
1	AS	3182	C	C2-N1-C1'	6.87	126.36	118.80
1	AS	1349	U	C2-N1-C1'	6.83	125.89	117.70
46	B	451	C	N3-C2-O2	-6.82	117.13	121.90
46	CM	814	A	OP2-P-O3'	6.80	120.16	105.20
1	1	2637	U	C6-N1-C2	-6.79	116.93	121.00
46	B	1375	C	C2-N1-C1'	6.76	126.23	118.80
1	1	1273	C	C6-N1-C1'	-6.75	112.70	120.80
1	AS	3126	U	C2-N1-C1'	6.68	125.71	117.70
1	1	1248	A	O4'-C1'-N9	6.60	113.48	108.20
1	AS	1558	G	N3-C4-N9	6.58	129.95	126.00
1	AS	477	U	C5-C6-N1	6.57	125.99	122.70
46	CM	825	U	P-O3'-C3'	6.55	127.56	119.70
1	AS	1223	C	N1-C2-O2	6.54	122.83	118.90
1	1	3182	C	C2-N1-C1'	6.54	125.99	118.80
1	1	1229	G	C4-N9-C1'	6.52	134.98	126.50

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	AU	155	G	O4'-C1'-N9	6.46	113.36	108.20
1	1	1492	C	C2-N1-C1'	6.39	125.83	118.80
1	1	3160	C	C6-N1-C1'	-6.39	113.13	120.80
46	B	1242	U	C2-N1-C1'	6.33	125.30	117.70
1	AS	1267	A	O5'-P-OP1	6.33	118.30	110.70
1	AS	1252	G	C4-C5-N7	6.32	113.33	110.80
1	1	918	U	C2-N1-C1'	6.31	125.28	117.70
46	B	1457	A	C8-N9-C4	-6.29	103.28	105.80
46	CM	1045	U	C2-N1-C1'	6.29	125.24	117.70
46	CM	1703	C	C5'-C4'-O4'	6.27	116.62	109.10
46	B	1242	U	N3-C2-O2	-6.25	117.83	122.20
1	AS	3160	C	C2-N1-C1'	6.21	125.64	118.80
46	B	1433	C	O4'-C1'-N1	6.21	113.17	108.20
46	CM	822	G	O4'-C1'-N9	6.21	113.17	108.20
1	AS	1562	G	C4-N9-C1'	6.21	134.57	126.50
1	1	406	G	O4'-C1'-N9	6.19	113.15	108.20
46	CM	846	U	C2-N1-C1'	6.18	125.11	117.70
46	B	1703	C	OP1-P-O3'	6.17	118.78	105.20
46	CM	561	U	N3-C2-O2	-6.16	117.89	122.20
1	AS	2814	U	N1-C2-O2	6.16	127.11	122.80
1	1	481	G	O4'-C1'-N9	6.12	113.10	108.20
46	B	485	G	C8-N9-C1'	-6.12	119.04	127.00
46	B	485	G	C6-C5-N7	-6.11	126.73	130.40
46	CM	504	A	O4'-C1'-N9	-6.10	103.32	108.20
46	B	723	G	C8-N9-C1'	6.10	134.93	127.00
1	AS	918	U	C2-N1-C1'	6.09	125.01	117.70
46	CM	491	U	C2-N1-C1'	6.08	125.00	117.70
1	1	2474	C	N1-C2-O2	6.08	122.55	118.90
1	1	3160	C	N1-C2-O2	6.07	122.54	118.90
1	1	401	U	C2-N1-C1'	6.06	124.97	117.70
1	AS	2235	C	C2-N1-C1'	6.05	125.46	118.80
1	1	403	C	O4'-C1'-N1	6.05	113.04	108.20
3	4	39	G	O4'-C1'-N9	6.05	113.04	108.20
46	B	1234	U	C2-N1-C1'	6.02	124.93	117.70
46	CM	1234	U	C2-N1-C1'	6.01	124.92	117.70
1	1	1229	G	N9-C4-C5	-5.99	103.00	105.40
46	B	671	G	N3-C4-N9	5.99	129.59	126.00
46	CM	1462	C	C2-N1-C1'	5.99	125.38	118.80
46	B	814	A	P-O3'-C3'	5.98	126.88	119.70
1	1	3245	A	O4'-C1'-N9	5.97	112.98	108.20
1	1	1237	U	C5'-C4'-O4'	5.97	116.27	109.10
1	AS	1223	C	N3-C2-O2	-5.97	117.72	121.90

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	505	U	P-O3'-C3'	5.96	126.85	119.70
1	AS	1492	C	C2-N1-C1'	5.94	125.33	118.80
46	B	723	G	C4-N9-C1'	-5.93	118.79	126.50
46	CM	656	C	N3-C2-O2	-5.92	117.76	121.90
1	AS	918	U	N3-C2-O2	-5.92	118.06	122.20
1	AS	480	G	N3-C4-C5	-5.91	125.64	128.60
1	AS	2215	C	N3-C2-O2	-5.91	117.76	121.90
1	AS	3160	C	C6-N1-C1'	-5.91	113.71	120.80
1	AS	1346	U	P-O3'-C3'	5.88	126.75	119.70
46	B	505	U	P-O3'-C3'	5.85	126.72	119.70
46	B	1703	C	P-O3'-C3'	5.85	126.72	119.70
46	B	1067	C	C2-N1-C1'	5.85	125.24	118.80
1	1	1230	G	C4-N9-C1'	-5.85	118.89	126.50
46	B	723	G	O4'-C1'-N9	5.85	112.88	108.20
46	B	1462	C	C2-N1-C1'	5.85	125.23	118.80
1	AS	956	U	C2-N1-C1'	5.82	124.68	117.70
46	B	723	G	N3-C4-N9	-5.82	122.51	126.00
1	1	376	G	O4'-C1'-N9	5.81	112.85	108.20
46	CM	1375	C	C6-N1-C1'	-5.81	113.83	120.80
1	1	1218	G	O4'-C1'-N9	5.81	112.85	108.20
1	1	2663	A	P-O3'-C3'	5.81	126.67	119.70
1	1	1230	G	C8-N9-C1'	5.80	134.55	127.00
46	CM	818	U	C2-N1-C1'	5.80	124.66	117.70
1	1	1237	U	O4'-C1'-N1	5.80	112.84	108.20
1	AS	918	U	N1-C2-O2	5.79	126.85	122.80
1	AS	3167	G	N3-C4-N9	5.79	129.47	126.00
1	1	3182	C	N1-C2-O2	5.77	122.36	118.90
1	1	3164	U	OP1-P-O3'	5.76	117.88	105.20
46	CM	579	U	C2-N1-C1'	5.75	124.59	117.70
1	1	1224	C	C2-N1-C1'	5.74	125.11	118.80
1	1	1245	G	O4'-C1'-N9	5.72	112.78	108.20
1	AS	1253	C	C2-N1-C1'	5.72	125.09	118.80
46	B	217	A	O4'-C1'-N9	5.70	112.76	108.20
78	h	159	LEU	CA-CB-CG	5.70	128.41	115.30
1	1	2637	U	N1-C2-N3	5.70	118.32	114.90
1	AS	1252	G	C5-C6-O6	-5.70	125.18	128.60
1	1	1197	C	C2-N1-C1'	5.69	125.06	118.80
50	CQ	216	ASP	CB-CG-OD1	5.69	123.42	118.30
1	1	2814	U	N1-C2-O2	5.69	126.78	122.80
46	B	656	C	C5-C6-N1	5.69	123.84	121.00
46	CM	826	U	C5-C6-N1	5.68	125.54	122.70
1	1	1573	C	C2-N1-C1'	5.67	125.03	118.80

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	1	3151	C	O4'-C1'-N1	5.66	112.73	108.20
1	1	1253	C	C2-N1-C1'	5.66	125.03	118.80
46	CM	825	U	C5-C6-N1	-5.66	119.87	122.70
1	1	1874	G	C4-N9-C1'	5.66	133.85	126.50
1	1	1943	G	OP1-P-O3'	5.66	117.64	105.20
46	B	1046	A	O4'-C1'-N9	5.66	112.73	108.20
1	AS	1252	G	N9-C4-C5	-5.65	103.14	105.40
1	1	1943	G	P-O3'-C3'	5.65	126.48	119.70
46	B	676	G	N9-C1'-C2'	5.65	121.34	114.00
1	AS	2509	C	N1-C2-O2	5.65	122.29	118.90
46	CM	1067	C	C2-N1-C1'	5.65	125.01	118.80
1	AS	1562	G	N7-C8-N9	5.64	115.92	113.10
1	AS	447	U	P-O3'-C3'	5.64	126.47	119.70
1	AS	1231	U	C2-N1-C1'	5.64	124.46	117.70
1	1	602	A	N7-C8-N9	5.63	116.62	113.80
46	B	485	G	N3-C4-N9	5.63	129.38	126.00
46	CM	608	G	C4-N9-C1'	5.63	133.82	126.50
46	CM	1375	C	N1-C2-O2	5.63	122.28	118.90
1	1	1346	U	P-O3'-C3'	5.62	126.45	119.70
46	B	451	C	C6-N1-C2	-5.62	118.05	120.30
46	B	579	U	N3-C2-O2	-5.60	118.28	122.20
1	AS	1638	A	O4'-C1'-N9	-5.60	103.72	108.20
67	DH	25	LEU	CA-CB-CG	5.60	128.18	115.30
1	AS	1253	C	N1-C2-O2	5.59	122.25	118.90
46	B	218	A	C8-N9-C4	-5.59	103.57	105.80
1	AS	977	U	N1-C2-O2	5.59	126.71	122.80
80	p0	45	LEU	CA-CB-CG	5.58	128.14	115.30
1	AS	1231	U	O4'-C1'-N1	-5.57	103.74	108.20
46	CM	1444	G	C4-N9-C1'	5.57	133.75	126.50
1	1	1347	U	N1-C2-O2	5.56	126.69	122.80
1	AS	1026	A	C4-N9-C1'	5.56	136.31	126.30
1	1	3243	C	N1-C2-O2	5.54	122.22	118.90
1	AS	3160	C	OP1-P-O3'	5.53	117.36	105.20
46	B	482	C	O4'-C1'-N1	5.52	112.62	108.20
46	B	579	U	C2-N1-C1'	5.52	124.32	117.70
1	AS	1562	G	C6-C5-N7	-5.51	127.10	130.40
1	1	482	U	O4'-C1'-N1	5.50	112.60	108.20
1	1	3321	G	O5'-P-OP2	5.50	117.30	110.70
1	1	2519	A	P-O3'-C3'	5.50	126.30	119.70
1	1	1229	G	N3-C4-N9	5.49	129.29	126.00
46	B	485	G	N7-C8-N9	5.49	115.84	113.10
5	k	7	GLU	C-N-CA	5.48	135.40	121.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
1	AS	480	G	N9-C1'-C2'	-5.48	105.98	112.00
46	CM	826	U	C6-N1-C2	-5.47	117.72	121.00
1	1	977	U	C6-N1-C1'	-5.47	113.54	121.20
46	CM	721	C	C6-N1-C2	-5.47	118.11	120.30
1	1	2474	C	N3-C2-O2	-5.47	118.07	121.90
62	R	80	LEU	CA-CB-CG	5.47	127.88	115.30
46	CM	499	U	P-O3'-C3'	-5.46	113.14	119.70
1	AS	1026	A	C8-N9-C1'	-5.45	117.89	127.70
46	B	1444	G	N3-C4-N9	5.44	129.26	126.00
46	CM	505	U	O4'-C1'-N1	5.44	112.55	108.20
1	1	3321	G	O5'-P-OP1	-5.43	100.81	105.70
50	CQ	60	LEU	CA-CB-CG	5.43	127.79	115.30
46	B	4	C	N1-C2-O2	5.43	122.16	118.90
1	1	2235	C	N1-C2-O2	5.42	122.15	118.90
1	AS	3243	C	N1-C2-O2	5.42	122.15	118.90
46	B	1242	U	N1-C2-O2	5.41	126.59	122.80
1	AS	1278	G	N3-C2-N2	5.41	123.69	119.90
46	B	505	U	O5'-P-OP1	5.40	117.18	110.70
1	AS	1252	G	N7-C8-N9	5.40	115.80	113.10
1	1	3160	C	C5-C6-N1	5.38	123.69	121.00
46	CM	818	U	N3-C2-O2	-5.38	118.43	122.20
46	CM	1703	C	O4'-C1'-N1	5.38	112.51	108.20
46	CM	725	A	C5'-C4'-C3'	-5.38	107.39	116.00
1	1	1033	C	C2-N1-C1'	5.38	124.72	118.80
46	CM	671	G	C4-N9-C1'	5.38	133.49	126.50
1	AS	1247	A	P-O3'-C3'	5.38	126.15	119.70
46	B	1369	G	P-O3'-C3'	5.37	126.14	119.70
46	CM	4	C	C2-N1-C1'	5.36	124.70	118.80
1	AS	3134	C	C2-N1-C1'	5.36	124.70	118.80
1	1	2215	C	N3-C2-O2	-5.36	118.15	121.90
46	CM	491	U	N1-C2-O2	5.35	126.55	122.80
1	AS	452	A	P-O3'-C3'	5.35	126.12	119.70
1	AS	2519	A	P-O3'-C3'	5.35	126.12	119.70
1	AS	1247	A	O3'-P-O5'	5.34	114.16	104.00
46	B	579	U	N1-C2-O2	5.34	126.54	122.80
46	B	656	C	C6-N1-C1'	-5.34	114.40	120.80
46	B	1364	U	C2-N1-C1'	5.34	124.10	117.70
1	1	1257	G	C4-N9-C1'	5.33	133.43	126.50
1	1	1853	C	C2-N1-C1'	5.33	124.66	118.80
46	B	561	U	N3-C2-O2	-5.33	118.47	122.20
1	AS	1252	G	N1-C6-O6	5.32	123.09	119.90
46	B	656	C	C6-N1-C2	-5.31	118.18	120.30

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	B	1444	G	C4-N9-C1'	5.31	133.40	126.50
46	B	216	A	OP1-P-O3'	5.30	116.87	105.20
46	B	1675	U	O4'-C1'-N1	-5.30	103.96	108.20
1	AS	406	G	O4'-C1'-N9	5.30	112.44	108.20
1	1	2235	C	C2-N1-C1'	5.29	124.62	118.80
46	CM	1292	U	C2-N1-C1'	5.29	124.05	117.70
1	AS	1562	G	O4'-C1'-N9	-5.29	103.97	108.20
1	AS	1573	C	C2-N1-C1'	5.29	124.62	118.80
46	CM	1327	C	N1-C2-O2	5.28	122.07	118.90
1	1	3030	U	C2-N1-C1'	5.28	124.03	117.70
1	AS	451	C	C2-N1-C1'	5.27	124.60	118.80
1	1	2847	U	O4'-C1'-N1	5.27	112.41	108.20
1	AS	1252	G	N3-C4-C5	-5.27	125.97	128.60
46	B	1231	C	N1-C2-O2	5.26	122.05	118.90
1	1	1274	A	P-O3'-C3'	5.25	126.00	119.70
1	1	1552	C	C2-N1-C1'	5.25	124.58	118.80
1	AS	2814	U	N3-C2-O2	-5.25	118.53	122.20
46	CM	1444	G	N3-C4-N9	5.25	129.15	126.00
46	CM	713	U	C2-N1-C1'	5.25	124.00	117.70
1	AS	2509	C	N3-C2-O2	-5.25	118.23	121.90
1	1	1569	C	C2-N1-C1'	5.24	124.56	118.80
46	B	505	U	O4'-C1'-N1	5.23	112.39	108.20
46	CM	713	U	O4'-C1'-N1	5.23	112.39	108.20
1	AS	486	C	C2-N1-C1'	5.23	124.55	118.80
1	1	2637	U	C6-N1-C1'	5.22	128.51	121.20
46	B	1672	G	O4'-C1'-N9	5.22	112.38	108.20
1	1	2381	G	O4'-C1'-N9	5.22	112.38	108.20
46	CM	818	U	N1-C2-O2	5.22	126.45	122.80
1	1	112	C	C2-N1-C1'	5.21	124.54	118.80
46	CM	825	U	C4-C5-C6	5.21	122.83	119.70
46	CM	65	A	O4'-C1'-N9	-5.21	104.03	108.20
1	AS	3182	C	C6-N1-C1'	-5.21	114.55	120.80
1	AS	1234	C	C2-N1-C1'	5.21	124.53	118.80
1	1	1273	C	N1-C2-O2	5.20	122.02	118.90
46	CM	696	U	C6-N1-C2	-5.20	117.88	121.00
1	1	1525	A	C8-N9-C1'	-5.19	118.36	127.70
1	AS	1278	G	C8-N9-C1'	-5.19	120.26	127.00
46	CM	700	G	O4'-C1'-N9	5.18	112.35	108.20
1	1	3151	C	C2-N1-C1'	5.18	124.50	118.80
76	f	39	CYS	CB-CA-C	-5.18	100.05	110.40
1	AS	3126	U	N1-C2-O2	5.18	126.42	122.80
1	1	2968	U	C2-N1-C1'	5.17	123.91	117.70

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	608	G	C8-N9-C1'	-5.17	120.28	127.00
50	CQ	183	LEU	CA-CB-CG	5.17	127.19	115.30
46	B	1231	C	C2-N1-C1'	5.17	124.48	118.80
46	CM	723	G	N9-C4-C5	5.16	107.47	105.40
1	AS	1347	U	N3-C2-O2	-5.16	118.59	122.20
46	CM	698	C	C6-N1-C2	-5.16	118.24	120.30
1	1	3271	U	C2-N1-C1'	5.15	123.89	117.70
1	1	1229	G	C6-C5-N7	-5.14	127.31	130.40
46	B	1375	C	N1-C2-O2	5.14	121.99	118.90
32	AE	3	LEU	CA-CB-CG	5.14	127.13	115.30
1	AS	2215	C	N1-C2-O2	5.14	121.98	118.90
1	1	1099	A	P-O3'-C3'	5.14	125.86	119.70
1	1	481	G	C8-N9-C1'	5.13	133.68	127.00
46	B	676	G	C5'-C4'-O4'	5.13	115.26	109.10
46	CM	579	U	N1-C2-O2	5.13	126.39	122.80
46	B	711	U	P-O3'-C3'	5.13	125.86	119.70
1	AS	1099	A	OP2-P-O3'	5.13	116.48	105.20
46	B	1242	U	C6-N1-C2	-5.12	117.93	121.00
46	B	1237	C	C2-N1-C1'	5.12	124.43	118.80
46	CM	678	A	O5'-P-OP1	5.11	116.83	110.70
1	AS	2065	C	O4'-C1'-N1	5.10	112.28	108.20
1	1	1280	C	C6-N1-C2	-5.10	118.26	120.30
46	B	1067	C	N1-C2-O2	5.10	121.96	118.90
46	B	1046	A	C4-N9-C1'	5.10	135.48	126.30
1	1	2638	C	C6-N1-C2	-5.09	118.26	120.30
1	1	3167	G	N3-C4-N9	5.09	129.06	126.00
46	B	1360	C	N1-C2-O2	5.09	121.95	118.90
1	1	956	U	C2-N1-C1'	5.09	123.81	117.70
46	B	1327	C	C2-N1-C1'	5.09	124.40	118.80
1	AS	1552	C	C2-N1-C1'	5.09	124.39	118.80
1	AS	976	A	C8-N9-C4	-5.08	103.77	105.80
46	CM	724	G	O4'-C1'-N9	5.07	112.26	108.20
46	B	1523	G	N3-C4-C5	-5.07	126.06	128.60
1	AS	1197	C	C2-N1-C1'	5.07	124.38	118.80
1	AS	1217	A	OP2-P-O3'	5.07	116.35	105.20
1	AS	1562	G	C8-N9-C1'	-5.07	120.41	127.00
1	AS	1562	G	C8-N9-C4	-5.07	104.37	106.40
1	1	1638	A	O4'-C1'-N9	-5.06	104.15	108.20
1	AS	1228	C	C5-C4-N4	-5.06	116.66	120.20
1	1	1217	A	P-O3'-C3'	-5.05	113.63	119.70
1	1	1253	C	N1-C2-O2	5.05	121.93	118.90
1	1	2422	C	C2-N1-C1'	5.05	124.36	118.80

*Continued on next page...*

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
46	CM	823	G	O4'-C1'-N9	-5.05	104.16	108.20
46	B	1327	C	N1-C2-O2	5.05	121.93	118.90
1	AS	1558	G	C4-N9-C1'	5.04	133.06	126.50
46	B	451	C	C6-N1-C1'	-5.04	114.75	120.80
46	CM	1237	C	C2-N1-C1'	5.04	124.34	118.80
1	1	3309	A	N7-C8-N9	5.03	116.32	113.80
1	AS	3160	C	N1-C2-O2	5.03	121.92	118.90
1	1	3327	A	O4'-C1'-N9	5.03	112.22	108.20
1	1	2814	U	C6-N1-C1'	-5.03	114.16	121.20
66	V	114	LEU	CA-CB-CG	5.03	126.86	115.30
46	CM	451	C	C6-N1-C1'	-5.02	114.77	120.80
1	AS	1559	C	C2-N1-C1'	5.02	124.32	118.80
1	AS	2063	C	C2-N1-C1'	5.02	124.32	118.80
1	AS	1099	A	P-O3'-C3'	5.01	125.71	119.70
1	AS	1226	G	O4'-C1'-N9	5.00	112.20	108.20

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	248/254 (98%)	240 (97%)	8 (3%)	0	100	100
4	j	248/254 (98%)	240 (97%)	8 (3%)	0	100	100
5	AX	384/389 (99%)	372 (97%)	12 (3%)	0	100	100
5	k	385/389 (99%)	371 (96%)	14 (4%)	0	100	100

Continued on next page...



*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
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%)	279 (96%)	11 (4%)	0	100	100
7	m	294/298 (99%)	282 (96%)	11 (4%)	1 (0%)	41	76
8	BA	149/176 (85%)	147 (99%)	2 (1%)	0	100	100
8	n	153/176 (87%)	149 (97%)	4 (3%)	0	100	100
9	BB	232/241 (96%)	226 (97%)	5 (2%)	1 (0%)	34	72
9	o	232/241 (96%)	226 (97%)	5 (2%)	1 (0%)	34	72
10	BC	231/262 (88%)	219 (95%)	10 (4%)	2 (1%)	17	55
10	p	236/262 (90%)	227 (96%)	8 (3%)	1 (0%)	34	72
11	BD	188/191 (98%)	183 (97%)	5 (3%)	0	100	100
11	q	188/191 (98%)	183 (97%)	5 (3%)	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%)	163 (96%)	6 (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%)	197 (98%)	4 (2%)	0	100	100
16	v	201/204 (98%)	196 (98%)	5 (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%)	168 (98%)	4 (2%)	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
21	0	168/172 (98%)	166 (99%)	2 (1%)	0	100	100

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
21	BN	168/172 (98%)	166 (99%)	2 (1%)	0	100	100
22	2	157/160 (98%)	155 (99%)	2 (1%)	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%)	15	53
23	BP	102/124 (82%)	89 (87%)	11 (11%)	2 (2%)	7	34
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%)	103 (90%)	11 (10%)	0	100	100
25	BR	94/155 (61%)	91 (97%)	3 (3%)	0	100	100
26	8	119/142 (84%)	117 (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%)	139 (95%)	7 (5%)	0	100	100
29	BV	146/149 (98%)	139 (95%)	6 (4%)	1 (1%)	22	60
30	AC	60/63 (95%)	56 (93%)	2 (3%)	2 (3%)	4	21
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%)	104 (96%)	3 (3%)	1 (1%)	17	55
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%)	101 (97%)	3 (3%)	0	100	100
34	CA	104/107 (97%)	101 (97%)	3 (3%)	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	119/120 (99%)	114 (96%)	5 (4%)	0	100	100
36	CC	117/120 (98%)	114 (97%)	3 (3%)	0	100	100

Continued on next page...

*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
37	AJ	95/99 (96%)	94 (99%)	1 (1%)	0	100	100
37	CD	95/99 (96%)	94 (99%)	1 (1%)	0	100	100
38	AK	84/87 (97%)	81 (96%)	3 (4%)	0	100	100
38	CE	84/87 (97%)	81 (96%)	3 (4%)	0	100	100
39	AL	75/78 (96%)	70 (93%)	5 (7%)	0	100	100
39	CF	75/78 (96%)	69 (92%)	6 (8%)	0	100	100
40	AM	48/51 (94%)	46 (96%)	1 (2%)	1 (2%)	7	33
40	CG	49/51 (96%)	48 (98%)	1 (2%)	0	100	100
41	AN	50/52 (96%)	49 (98%)	1 (2%)	0	100	100
41	CH	49/52 (94%)	46 (94%)	0	3 (6%)	1	8
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%)	99 (98%)	2 (2%)	0	100	100
43	CJ	101/106 (95%)	99 (98%)	2 (2%)	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%)	92 (79%)	22 (19%)	3 (3%)	5	27
45	i	117/267 (44%)	95 (81%)	19 (16%)	3 (3%)	5	27
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%)	210 (98%)	5 (2%)	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%)	254 (98%)	4 (2%)	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
53	CT	234/236 (99%)	230 (98%)	4 (2%)	0	100	100

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
53	I	224/236 (95%)	220 (98%)	4 (2%)	0	100	100
54	CU	181/186 (97%)	171 (94%)	9 (5%)	1 (1%)	25	64
54	J	183/186 (98%)	174 (95%)	9 (5%)	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%)	174 (99%)	2 (1%)	0	100	100
56	L	176/189 (93%)	175 (99%)	1 (1%)	0	100	100
57	CX	92/118 (78%)	85 (92%)	7 (8%)	0	100	100
57	M	96/118 (81%)	82 (85%)	13 (14%)	1 (1%)	15	53
58	CY	139/155 (90%)	133 (96%)	5 (4%)	1 (1%)	22	60
58	N	142/155 (92%)	137 (96%)	5 (4%)	0	100	100
59	CZ	117/143 (82%)	90 (77%)	21 (18%)	6 (5%)	2	12
59	O	114/143 (80%)	89 (78%)	20 (18%)	5 (4%)	2	15
60	DA	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
60	P	148/151 (98%)	146 (99%)	2 (1%)	0	100	100
61	DB	125/132 (95%)	120 (96%)	4 (3%)	1 (1%)	19	57
61	Q	125/132 (95%)	119 (95%)	6 (5%)	0	100	100
62	DC	128/142 (90%)	111 (87%)	17 (13%)	0	100	100
62	R	127/142 (89%)	115 (91%)	11 (9%)	1 (1%)	19	57
63	DD	138/142 (97%)	134 (97%)	4 (3%)	0	100	100
63	S	138/142 (97%)	132 (96%)	5 (4%)	1 (1%)	22	60
64	DE	122/137 (89%)	119 (98%)	3 (2%)	0	100	100
64	T	122/137 (89%)	118 (97%)	4 (3%)	0	100	100
65	DF	139/145 (96%)	134 (96%)	3 (2%)	2 (1%)	11	43
65	U	142/145 (98%)	137 (96%)	5 (4%)	0	100	100
66	DG	139/145 (96%)	134 (96%)	5 (4%)	0	100	100
66	V	139/145 (96%)	136 (98%)	3 (2%)	0	100	100
67	DH	95/119 (80%)	93 (98%)	2 (2%)	0	100	100
67	W	100/119 (84%)	97 (97%)	3 (3%)	0	100	100
68	DI	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
68	X	85/87 (98%)	83 (98%)	2 (2%)	0	100	100

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
69	DJ	127/130 (98%)	125 (98%)	2 (2%)	0	100	100
69	Y	127/130 (98%)	125 (98%)	2 (2%)	0	100	100
70	DK	141/145 (97%)	139 (99%)	2 (1%)	0	100	100
70	Z	141/145 (97%)	138 (98%)	3 (2%)	0	100	100
71	DL	130/135 (96%)	130 (100%)	0	0	100	100
71	a	132/135 (98%)	130 (98%)	2 (2%)	0	100	100
72	DM	69/105 (66%)	66 (96%)	3 (4%)	0	100	100
72	b	70/105 (67%)	69 (99%)	1 (1%)	0	100	100
73	DN	96/119 (81%)	94 (98%)	2 (2%)	0	100	100
73	c	96/119 (81%)	94 (98%)	2 (2%)	0	100	100
74	DO	79/82 (96%)	72 (91%)	7 (9%)	0	100	100
74	d	79/82 (96%)	75 (95%)	4 (5%)	0	100	100
75	DP	59/67 (88%)	53 (90%)	6 (10%)	0	100	100
75	e	60/67 (90%)	57 (95%)	3 (5%)	0	100	100
76	DQ	52/56 (93%)	50 (96%)	2 (4%)	0	100	100
76	f	53/56 (95%)	52 (98%)	1 (2%)	0	100	100
77	DR	56/63 (89%)	50 (89%)	5 (9%)	1 (2%)	8	37
77	g	58/63 (92%)	54 (93%)	4 (7%)	0	100	100
78	DS	68/193 (35%)	57 (84%)	10 (15%)	1 (2%)	10	42
78	h	68/193 (35%)	56 (82%)	10 (15%)	2 (3%)	4	24
79	AR	309/317 (98%)	292 (94%)	16 (5%)	1 (0%)	41	76
79	DT	309/317 (98%)	287 (93%)	21 (7%)	1 (0%)	41	76
80	P0	105/312 (34%)	87 (83%)	16 (15%)	2 (2%)	8	36
80	p0	105/312 (34%)	74 (70%)	28 (27%)	3 (3%)	4	24
81	12	61/165 (37%)	36 (59%)	25 (41%)	0	100	100
82	L1	215/217 (99%)	173 (80%)	40 (19%)	2 (1%)	17	55
82	l1	215/217 (99%)	132 (61%)	74 (34%)	9 (4%)	3	16
All	All	22818/25493 (90%)	21825 (96%)	929 (4%)	64 (0%)	41	76

All (64) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
30	AC	21	ILE

Continued on next page...

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
40	AM	49	LEU
45	i	55	LYS
45	i	64	LEU
59	O	130	SER
41	CH	3	GLU
41	CH	4	PRO
45	CL	41	ALA
45	CL	43	PRO
45	CL	72	ASP
59	CZ	82	PRO
59	CZ	112	ALA
65	DF	57	ARG
65	DF	80	LYS
79	DT	75	SER
80	P0	71	PRO
80	P0	72	GLU
82	L1	45	ARG
82	l1	71	ALA
82	l1	74	VAL
82	l1	87	VAL
82	l1	129	SER
82	l1	157	PHE
82	l1	212	PRO
80	p0	71	PRO
80	p0	102	SER
10	p	205	ASN
45	i	63	ALA
57	M	88	PRO
62	R	2	VAL
59	CZ	34	THR
59	CZ	108	ARG
78	DS	127	TYR
82	L1	212	PRO
82	l1	27	ASN
82	l1	59	PRO
59	O	42	ALA
9	BB	230	GLU
23	BP	20	ALA
58	CY	27	ALA
61	DB	119	ASP
9	o	230	GLU
23	5	20	ALA

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type
10	BC	127	SER
7	m	44	TYR
59	O	37	VAL
59	O	104	CYS
32	BY	110	ASP
54	CU	156	THR
59	CZ	103	LEU
30	AC	3	LYS
78	h	124	LYS
78	h	141	LYS
79	AR	118	LYS
23	BP	24	GLU
29	BV	24	LYS
41	CH	6	LEU
59	CZ	32	LEU
77	DR	7	SER
82	ll	179	LEU
59	O	40	GLY
80	p0	101	VAL
63	S	40	PRO
10	BC	128	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	191/194 (98%)	189 (99%)	2 (1%)	76	91
4	j	191/194 (98%)	191 (100%)	0	100	100
5	AX	325/328 (99%)	323 (99%)	2 (1%)	86	95
5	k	326/328 (99%)	324 (99%)	2 (1%)	86	95
6	AY	290/292 (99%)	287 (99%)	3 (1%)	76	91
6	l	290/292 (99%)	288 (99%)	2 (1%)	84	94
7	AZ	247/252 (98%)	245 (99%)	2 (1%)	81	93
7	m	250/252 (99%)	250 (100%)	0	100	100

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
8	BA	132/154 (86%)	132 (100%)	0	100	100
8	n	136/154 (88%)	136 (100%)	0	100	100
9	BB	198/204 (97%)	198 (100%)	0	100	100
9	o	198/204 (97%)	196 (99%)	2 (1%)	76	91
10	BC	193/216 (89%)	193 (100%)	0	100	100
10	p	198/216 (92%)	197 (100%)	1 (0%)	88	96
11	BD	169/170 (99%)	168 (99%)	1 (1%)	86	95
11	q	169/170 (99%)	168 (99%)	1 (1%)	86	95
12	BE	178/186 (96%)	176 (99%)	2 (1%)	73	90
12	r	178/186 (96%)	177 (99%)	1 (1%)	86	95
13	BF	146/149 (98%)	143 (98%)	3 (2%)	53	82
13	s	146/149 (98%)	144 (99%)	2 (1%)	67	88
14	BG	166/168 (99%)	164 (99%)	2 (1%)	71	90
14	t	166/168 (99%)	165 (99%)	1 (1%)	86	95
15	BH	108/109 (99%)	107 (99%)	1 (1%)	78	92
15	u	108/109 (99%)	107 (99%)	1 (1%)	78	92
16	BI	177/178 (99%)	177 (100%)	0	100	100
16	v	177/178 (99%)	176 (99%)	1 (1%)	86	95
17	BJ	166/167 (99%)	166 (100%)	0	100	100
17	w	166/167 (99%)	165 (99%)	1 (1%)	86	95
18	BK	145/154 (94%)	142 (98%)	3 (2%)	53	82
18	x	144/154 (94%)	143 (99%)	1 (1%)	84	94
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%)	44	77
20	z	146/153 (95%)	146 (100%)	0	100	100
21	0	155/157 (99%)	154 (99%)	1 (1%)	86	95
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%)	81	93
23	5	93/112 (83%)	92 (99%)	1 (1%)	73	90

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
23	BP	95/112 (85%)	91 (96%)	4 (4%)	30	66
24	6	101/104 (97%)	101 (100%)	0	100	100
24	BQ	101/104 (97%)	99 (98%)	2 (2%)	55	83
25	7	97/127 (76%)	96 (99%)	1 (1%)	76	91
25	BR	86/127 (68%)	84 (98%)	2 (2%)	50	80
26	8	108/121 (89%)	108 (100%)	0	100	100
26	BS	107/121 (88%)	107 (100%)	0	100	100
27	9	111/112 (99%)	110 (99%)	1 (1%)	78	92
27	BT	111/112 (99%)	110 (99%)	1 (1%)	78	92
28	AA	117/118 (99%)	117 (100%)	0	100	100
28	BU	117/118 (99%)	115 (98%)	2 (2%)	60	85
29	AB	120/121 (99%)	120 (100%)	0	100	100
29	BV	120/121 (99%)	120 (100%)	0	100	100
30	AC	48/49 (98%)	48 (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%)	76	91
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%)	109 (99%)	1 (1%)	78	92
34	AG	91/92 (99%)	90 (99%)	1 (1%)	73	90
34	CA	91/92 (99%)	91 (100%)	0	100	100
35	AH	95/102 (93%)	95 (100%)	0	100	100
35	CB	95/102 (93%)	95 (100%)	0	100	100
36	AI	107/106 (101%)	105 (98%)	2 (2%)	57	84
36	CC	106/106 (100%)	104 (98%)	2 (2%)	57	84
37	AJ	77/79 (98%)	76 (99%)	1 (1%)	69	89
37	CD	77/79 (98%)	77 (100%)	0	100	100
38	AK	70/71 (99%)	70 (100%)	0	100	100
38	CE	70/71 (99%)	70 (100%)	0	100	100

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
39	AL	68/69 (99%)	68 (100%)	0	100	100
39	CF	68/69 (99%)	67 (98%)	1 (2%)	65	87
40	AM	46/47 (98%)	46 (100%)	0	100	100
40	CG	47/47 (100%)	47 (100%)	0	100	100
41	AN	47/47 (100%)	47 (100%)	0	100	100
41	CH	46/47 (98%)	45 (98%)	1 (2%)	52	81
42	AO	24/24 (100%)	22 (92%)	2 (8%)	11	39
42	CI	23/24 (96%)	23 (100%)	0	100	100
43	AP	88/91 (97%)	87 (99%)	1 (1%)	73	90
43	CJ	88/91 (97%)	86 (98%)	2 (2%)	50	80
44	AQ	72/73 (99%)	72 (100%)	0	100	100
44	CK	72/73 (99%)	72 (100%)	0	100	100
45	CL	99/212 (47%)	98 (99%)	1 (1%)	76	91
45	i	99/212 (47%)	98 (99%)	1 (1%)	76	91
47	C	176/215 (82%)	175 (99%)	1 (1%)	86	95
47	CN	176/215 (82%)	174 (99%)	2 (1%)	73	90
48	CO	194/229 (85%)	194 (100%)	0	100	100
48	D	194/229 (85%)	193 (100%)	1 (0%)	88	96
49	CP	175/198 (88%)	173 (99%)	2 (1%)	73	90
49	E	175/198 (88%)	175 (100%)	0	100	100
50	CQ	174/196 (89%)	169 (97%)	5 (3%)	42	76
50	F	174/196 (89%)	172 (99%)	2 (1%)	73	90
51	CR	218/220 (99%)	217 (100%)	1 (0%)	88	96
51	G	218/220 (99%)	218 (100%)	0	100	100
52	CS	178/197 (90%)	177 (99%)	1 (1%)	86	95
52	H	178/197 (90%)	176 (99%)	2 (1%)	73	90
53	CT	204/204 (100%)	202 (99%)	2 (1%)	76	91
53	I	195/204 (96%)	193 (99%)	2 (1%)	76	91
54	CU	164/167 (98%)	163 (99%)	1 (1%)	86	95
54	J	166/167 (99%)	165 (99%)	1 (1%)	86	95
55	CV	157/160 (98%)	157 (100%)	0	100	100

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
55	K	157/160 (98%)	156 (99%)	1 (1%)	86	95
56	CW	153/160 (96%)	153 (100%)	0	100	100
56	L	153/160 (96%)	153 (100%)	0	100	100
57	CX	88/104 (85%)	88 (100%)	0	100	100
57	M	90/104 (86%)	90 (100%)	0	100	100
58	CY	122/134 (91%)	121 (99%)	1 (1%)	81	93
58	N	124/134 (92%)	122 (98%)	2 (2%)	62	86
59	CZ	101/123 (82%)	99 (98%)	2 (2%)	55	83
59	O	98/123 (80%)	93 (95%)	5 (5%)	24	60
60	DA	129/130 (99%)	128 (99%)	1 (1%)	81	93
60	P	129/130 (99%)	129 (100%)	0	100	100
61	DB	97/102 (95%)	97 (100%)	0	100	100
61	Q	97/102 (95%)	96 (99%)	1 (1%)	76	91
62	DC	112/121 (93%)	110 (98%)	2 (2%)	59	85
62	R	111/121 (92%)	109 (98%)	2 (2%)	59	85
63	DD	114/116 (98%)	112 (98%)	2 (2%)	59	85
63	S	114/116 (98%)	113 (99%)	1 (1%)	78	92
64	DE	112/122 (92%)	112 (100%)	0	100	100
64	T	112/122 (92%)	111 (99%)	1 (1%)	78	92
65	DF	125/129 (97%)	122 (98%)	3 (2%)	49	79
65	U	128/129 (99%)	123 (96%)	5 (4%)	32	69
66	DG	113/117 (97%)	113 (100%)	0	100	100
66	V	113/117 (97%)	113 (100%)	0	100	100
67	DH	87/105 (83%)	85 (98%)	2 (2%)	50	80
67	W	92/105 (88%)	89 (97%)	3 (3%)	38	73
68	DI	71/71 (100%)	71 (100%)	0	100	100
68	X	71/71 (100%)	71 (100%)	0	100	100
69	DJ	112/113 (99%)	112 (100%)	0	100	100
69	Y	112/113 (99%)	112 (100%)	0	100	100
70	DK	116/118 (98%)	115 (99%)	1 (1%)	78	92
70	Z	116/118 (98%)	115 (99%)	1 (1%)	78	92

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
71	DL	109/112 (97%)	109 (100%)	0	100	100
71	a	111/112 (99%)	110 (99%)	1 (1%)	78	92
72	DM	63/85 (74%)	62 (98%)	1 (2%)	62	86
72	b	64/85 (75%)	64 (100%)	0	100	100
73	DN	84/102 (82%)	84 (100%)	0	100	100
73	c	84/102 (82%)	82 (98%)	2 (2%)	49	79
74	DO	72/73 (99%)	72 (100%)	0	100	100
74	d	72/73 (99%)	72 (100%)	0	100	100
75	DP	53/58 (91%)	53 (100%)	0	100	100
75	e	54/58 (93%)	54 (100%)	0	100	100
76	DQ	47/48 (98%)	45 (96%)	2 (4%)	29	66
76	f	47/48 (98%)	45 (96%)	2 (4%)	29	66
77	DR	50/54 (93%)	50 (100%)	0	100	100
77	g	51/54 (94%)	51 (100%)	0	100	100
78	DS	62/175 (35%)	52 (84%)	10 (16%)	2	12
78	h	62/175 (35%)	61 (98%)	1 (2%)	62	86
79	AR	259/263 (98%)	258 (100%)	1 (0%)	91	97
79	DT	259/263 (98%)	256 (99%)	3 (1%)	71	90
80	P0	92/247 (37%)	88 (96%)	4 (4%)	29	66
80	p0	92/247 (37%)	88 (96%)	4 (4%)	29	66
81	12	53/137 (39%)	51 (96%)	2 (4%)	33	69
82	L1	196/196 (100%)	186 (95%)	10 (5%)	24	60
82	l1	196/196 (100%)	187 (95%)	9 (5%)	27	64
All	All	19588/21467 (91%)	19403 (99%)	185 (1%)	78	92

All (185) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
5	k	3	HIS
5	k	386	ASP
6	l	99	ARG
6	l	121	TYR
9	o	15	LYS
9	o	198	ASN

Continued on next page...

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
10	p	27	LEU
11	q	106	LYS
12	r	92	HIS
13	s	13	ARG
13	s	68	HIS
14	t	4	SER
15	u	121	ARG
16	v	178	HIS
17	w	83	LYS
18	x	154	ASP
21	0	113	ARG
23	5	103	GLN
25	7	80	ARG
27	9	3	LYS
32	AE	16	HIS
34	AG	92	LYS
36	AI	1	MET
36	AI	59	ASN
37	AJ	98	ARG
42	AO	2	ARG
42	AO	15	ARG
43	AP	56	GLN
45	i	82	LYS
47	C	18	LEU
48	D	158	SER
50	F	77	ARG
50	F	167	ASP
52	H	157	ARG
52	H	225	ARG
53	I	25	ARG
53	I	193	LYS
54	J	30	LEU
55	K	125	LYS
58	N	46	LYS
58	N	67	ARG
59	O	33	ARG
59	O	36	LEU
59	O	37	VAL
59	O	39	ASP
59	O	129	ASP
61	Q	119	ASP
62	R	28	MET

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
62	R	97	TYR
63	S	37	LEU
64	T	80	ARG
65	U	115	ARG
65	U	127	HIS
65	U	139	LYS
65	U	140	THR
65	U	141	THR
67	W	51	LYS
67	W	88	ARG
67	W	100	LYS
70	Z	107	PHE
71	a	135	ASP
73	c	5	ARG
73	c	89	ARG
76	f	33	LYS
76	f	40	ARG
78	h	168	CYS
79	AR	121	ARG
4	AW	142	ASP
4	AW	159	SER
5	AX	5	LYS
5	AX	226	PHE
6	AY	59	HIS
6	AY	99	ARG
6	AY	363	ASN
7	AZ	136	GLU
7	AZ	244	HIS
11	BD	61	ASP
12	BE	95	HIS
12	BE	203	LYS
13	BF	13	ARG
13	BF	88	GLU
13	BF	168	ASP
14	BG	4	SER
14	BG	45	LYS
15	BH	23	ASN
18	BK	30	ARG
18	BK	118	GLN
18	BK	180	LYS
20	BM	20	ARG
20	BM	162	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
20	BM	167	ARG
20	BM	170	ARG
22	BO	83	ARG
23	BP	14	LYS
23	BP	28	PHE
23	BP	61	ASP
23	BP	111	TYR
24	BQ	110	LYS
24	BQ	112	SER
25	BR	93	ARG
25	BR	94	ARG
27	BT	3	LYS
28	BU	34	LYS
28	BU	112	LYS
33	BZ	62	LYS
36	CC	65	ASN
36	CC	114	ARG
39	CF	34	ASN
41	CH	22	LYS
43	CJ	40	LYS
43	CJ	56	GLN
45	CL	67	LYS
47	CN	79	ARG
47	CN	205	ARG
49	CP	74	ASP
49	CP	233	SER
50	CQ	33	GLN
50	CQ	77	ARG
50	CQ	179	ARG
50	CQ	198	PHE
50	CQ	216	ASP
51	CR	187	ARG
52	CS	116	HIS
53	CT	93	LYS
53	CT	155	ASP
54	CU	30	LEU
58	CY	67	ARG
59	CZ	33	ARG
59	CZ	46	ARG
60	DA	99	ARG
62	DC	36	LEU
62	DC	130	ARG

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
63	DD	22	LYS
63	DD	65	ARG
65	DF	25	ARG
65	DF	36	ARG
65	DF	41	ARG
67	DH	51	LYS
67	DH	100	LYS
70	DK	13	ARG
72	DM	77	ARG
76	DQ	42	CYS
76	DQ	54	LYS
78	DS	124	LYS
78	DS	125	LYS
78	DS	126	VAL
78	DS	127	TYR
78	DS	128	THR
78	DS	129	THR
78	DS	131	LYS
78	DS	140	HIS
78	DS	183	CYS
78	DS	186	CYS
79	DT	201	LEU
79	DT	226	LYS
79	DT	294	ASP
80	P0	5	ARG
80	P0	88	PHE
80	P0	94	LYS
80	P0	97	ARG
81	12	121	PHE
81	12	146	LYS
82	L1	41	TYR
82	L1	60	ARG
82	L1	63	MET
82	L1	66	CYS
82	L1	68	PHE
82	L1	88	ASP
82	L1	142	ASP
82	L1	199	GLN
82	L1	207	LYS
82	L1	214	PHE
82	11	26	ARG
82	11	45	ARG

*Continued on next page...*



*Continued from previous page...*

Mol	Chain	Res	Type
82	l1	68	PHE
82	l1	76	ARG
82	l1	85	MET
82	l1	130	LYS
82	l1	134	PHE
82	l1	158	GLN
82	l1	189	PHE
80	p0	8	LYS
80	p0	10	GLN
80	p0	74	GLU
80	p0	86	PHE

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (27) such sidechains are listed below:

Mol	Chain	Res	Type
5	k	182	GLN
8	n	3	GLN
9	o	17	GLN
29	AB	40	HIS
36	AI	45	HIS
45	i	66	ASN
63	S	39	GLN
67	W	93	GLN
79	AR	53	ASN
4	AW	132	ASN
7	AZ	94	ASN
11	BD	129	HIS
17	BJ	51	ASN
22	BO	95	HIS
26	BS	111	ASN
39	CF	34	ASN
45	CL	33	ASN
47	CN	33	ASN
48	CO	232	HIS
52	CS	63	GLN
52	CS	116	HIS
57	CX	58	GLN
63	DD	138	GLN
76	DQ	23	HIS
79	DT	53	ASN
82	L1	200	ASN
82	l1	12	ASN

5.3.3 RNA 

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
1	1	3213/3359 (95%)	613 (19%)	43 (1%)
1	AS	3226/3359 (96%)	634 (19%)	53 (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%)	22 (14%)	3 (1%)
46	B	1758/1787 (98%)	446 (25%)	45 (2%)
46	CM	1762/1787 (98%)	451 (25%)	52 (2%)
All	All	10512/10850 (96%)	2207 (20%)	199 (1%)

All (2207) 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	44	A
1	1	47	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	98	A
1	1	104	C
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1	422	A
1	1	438	A
1	1	439	C
1	1	448	U
1	1	450	G
1	1	451	C
1	1	482	U
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
1	1	598	U
1	1	600	U
1	1	601	U
1	1	602	A
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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	940	C
1	1	949	G
1	1	955	C
1	1	956	U
1	1	958	A
1	1	959	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1	970	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	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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	1228	C
1	1	1229	G
1	1	1230	G
1	1	1231	U
1	1	1232	G
1	1	1239	G
1	1	1240	A
1	1	1241	A
1	1	1242	G
1	1	1243	U
1	1	1244	C
1	1	1245	G
1	1	1246	G
1	1	1247	A
1	1	1249	U
1	1	1250	C
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	2233	A
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	2312	U
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1	2420	G
1	1	2421	A
1	1	2422	C
1	1	2423	A
1	1	2426	G
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	2441	G
1	1	2442	U
1	1	2443	G
1	1	2444	G
1	1	2445	G
1	1	2446	A
1	1	2448	C
1	1	2449	U
1	1	2450	U
1	1	2451	C
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
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	2474	C
1	1	2475	U
1	1	2476	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1	2477	U
1	1	2480	A
1	1	2482	U
1	1	2483	U
1	1	2484	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
1	1	2624	U
1	1	2628	A
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	3143	G
1	1	3144	A
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	222	C
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	483	A
46	B	484	G
46	B	485	G
46	B	487	C
46	B	490	U
46	B	491	U
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	645	G
46	B	648	U
46	B	649	G
46	B	650	G
46	B	651	C
46	B	652	C
46	B	653	G
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	675	U
46	B	677	G
46	B	678	A
46	B	679	C
46	B	680	C
46	B	681	C
46	B	688	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	723	G
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
46	B	1044	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

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
46	B	1250	G
46	B	1270	U
46	B	1284	G
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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	1678	G
46	B	1679	A
46	B	1680	A
46	B	1697	C
46	B	1698	U
46	B	1699	G
46	B	1700	G
46	B	1701	A
46	B	1702	A
46	B	1704	C
46	B	1737	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	1769	A
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	44	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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	189	U
1	AS	190	U
1	AS	199	C
1	AS	205	G
1	AS	209	C
1	AS	210	A
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	438	A
1	AS	439	C
1	AS	441	U
1	AS	442	G
1	AS	443	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	478	G
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	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
1	AS	540	C
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
1	AS	781	G
1	AS	802	A
1	AS	812	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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	1019	U
1	AS	1020	G
1	AS	1022	A
1	AS	1023	A
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

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	1224	C
1	AS	1228	C
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	1241	A
1	AS	1242	G
1	AS	1243	U
1	AS	1244	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	1246	G
1	AS	1248	A
1	AS	1249	U
1	AS	1250	C
1	AS	1251	C
1	AS	1252	G
1	AS	1254	U
1	AS	1255	A
1	AS	1258	G
1	AS	1259	A
1	AS	1260	G
1	AS	1261	U
1	AS	1262	G
1	AS	1263	U
1	AS	1264	G
1	AS	1265	U
1	AS	1266	A
1	AS	1267	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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
1	AS	1889	A
1	AS	1902	G
1	AS	1944	G
1	AS	1949	G
1	AS	2063	C
1	AS	2064	A
1	AS	2065	C
1	AS	2066	G
1	AS	2067	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	2068	U
1	AS	2069	U
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	2233	A
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
1	AS	2314	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	2341	A
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	2420	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	2436	A
1	AS	2437	A
1	AS	2438	U
1	AS	2439	A
1	AS	2440	A
1	AS	2441	G
1	AS	2442	U
1	AS	2443	G
1	AS	2445	G
1	AS	2446	A
1	AS	2447	G
1	AS	2448	C
1	AS	2449	U
1	AS	2450	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	2451	C
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	2460	U
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	2482	U
1	AS	2483	U
1	AS	2484	U
1	AS	2486	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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	2529	U
1	AS	2530	C
1	AS	2533	G
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

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	2782	C
1	AS	2786	G
1	AS	2789	A
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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	3094	A
1	AS	3101	A
1	AS	3102	A
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	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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	3281	A
1	AS	3284	U
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	106	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
3	AU	111	A
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	65	A
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	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

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	CM	154	A
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	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	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
46	CM	269	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	CM	270	U
46	CM	273	C
46	CM	274	C
46	CM	276	U
46	CM	277	G
46	CM	278	U
46	CM	279	G
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
46	CM	480	U
46	CM	489	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	CM	490	U
46	CM	491	U
46	CM	495	G
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
46	CM	620	A
46	CM	621	A
46	CM	639	G
46	CM	645	G
46	CM	648	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	CM	649	G
46	CM	650	G
46	CM	652	C
46	CM	653	G
46	CM	654	G
46	CM	657	C
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	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	713	U
46	CM	714	G
46	CM	716	C
46	CM	717	G
46	CM	718	A
46	CM	719	A

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
46	CM	819	G
46	CM	820	U
46	CM	821	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
46	CM	1011	A
46	CM	1013	C
46	CM	1017	G
46	CM	1024	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
46	CM	1215	A
46	CM	1219	A
46	CM	1220	C
46	CM	1221	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	CM	1229	A
46	CM	1230	G
46	CM	1231	C
46	CM	1234	U
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	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
46	CM	1385	C
46	CM	1392	A
46	CM	1397	A
46	CM	1398	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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
46	CM	1561	G
46	CM	1571	G
46	CM	1574	A
46	CM	1575	G

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	1672	G
46	CM	1673	U
46	CM	1675	U
46	CM	1677	G
46	CM	1678	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 (199) RNA pucker outliers are listed below:

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1	172	C

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	1	403	C
1	1	538	G
1	1	563	U
1	1	601	U
1	1	759	G
1	1	912	G
1	1	1011	C
1	1	1012	U
1	1	1029	U
1	1	1060	A
1	1	1099	A
1	1	1273	C
1	1	1274	A
1	1	1346	U
1	1	1347	U
1	1	1559	C
1	1	1561	U
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	2515	G
1	1	2519	A
1	1	2545	C
1	1	2663	A
1	1	2789	A
1	1	3093	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
1	1	3309	A
1	1	3317	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
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	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
46	B	1467	C
46	B	1479	A
46	B	1484	U

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	B	1523	G
46	B	1573	A
46	B	1579	A
46	B	1581	G
46	B	1677	G
46	B	1703	C
1	AS	172	C
1	AS	403	C
1	AS	447	U
1	AS	452	A
1	AS	453	U
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	1238	G
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	2438	U
1	AS	2442	U
1	AS	2448	C
1	AS	2449	U
1	AS	2450	U
1	AS	2455	G
1	AS	2458	G
1	AS	2464	A
1	AS	2465	U

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
1	AS	2468	C
1	AS	2480	A
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	3160	C
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	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	278	U
46	CM	415	A
46	CM	451	C
46	CM	504	A
46	CM	505	U
46	CM	514	G
46	CM	518	A
46	CM	529	C
46	CM	533	A
46	CM	553	A

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>
46	CM	556	U
46	CM	638	U
46	CM	680	C
46	CM	681	C
46	CM	690	C
46	CM	695	C
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	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 monosaccharides in this entry.

## 5.6 Ligand geometry [i](#)

Of 1452 ligands modelled in this entry, 1448 are monoatomic - leaving 4 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
85	TIX	1	3958	-	31,31,31	3.30	14 (45%)	36,54,54	3.04	18 (50%)
85	TIX	AS	3782	-	31,31,31	3.69	16 (51%)	36,54,54	3.01	17 (47%)
84	3K5	1	3403	-	62,63,63	2.86	26 (41%)	82,95,95	1.62	15 (18%)
84	3K5	AS	3401	-	62,63,63	0.35	0	82,95,95	0.82	4 (4%)

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
85	TIX	1	3958	-	-	-	0/6/5/5
85	TIX	AS	3782	-	-	-	0/6/5/5
84	3K5	1	3403	-	-	10/29/121/121	0/7/7/7
84	3K5	AS	3401	-	-	5/29/121/121	0/7/7/7

All (56) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
85	AS	3782	TIX	C15-C08	10.25	1.66	1.54
84	1	3403	3K5	C17-C22	-8.90	1.36	1.53
85	AS	3782	TIX	C08-C12	8.12	1.65	1.53
85	1	3958	TIX	C15-C08	7.89	1.63	1.54
85	1	3958	TIX	C08-C12	7.38	1.63	1.53
84	1	3403	3K5	O4-C22	7.33	1.59	1.43
85	1	3958	TIX	O01-C11	-7.04	1.35	1.44
85	AS	3782	TIX	C10-C18	6.88	1.63	1.55
85	AS	3782	TIX	O01-C11	-6.88	1.35	1.44
85	1	3958	TIX	C25-C22	-6.25	1.36	1.53
85	AS	3782	TIX	C25-C22	-6.08	1.36	1.53

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
84	1	3403	3K5	C21-C22	6.01	1.63	1.52
85	1	3958	TIX	C10-C18	5.82	1.62	1.55
84	1	3403	3K5	O6-C23	5.09	1.46	1.34
84	1	3403	3K5	O1-C6	4.60	1.44	1.34
84	1	3403	3K5	O12-C36	4.57	1.55	1.44
84	1	3403	3K5	C20-C23	4.32	1.62	1.51
84	1	3403	3K5	C37-C36	-4.23	1.41	1.51
85	AS	3782	TIX	C11-C17	4.13	1.58	1.52
85	AS	3782	TIX	C17-C19	4.01	1.57	1.52
84	1	3403	3K5	O-C2	3.99	1.49	1.43
84	1	3403	3K5	C29-C28	-3.97	1.42	1.51
84	1	3403	3K5	O7-C28	3.93	1.53	1.44
84	1	3403	3K5	O4-C3	-3.80	1.33	1.42
84	1	3403	3K5	C18-C17	3.74	1.60	1.53
84	1	3403	3K5	C7-C6	3.50	1.56	1.48
85	AS	3782	TIX	O07-C24	3.43	1.27	1.21
85	1	3958	TIX	C25-C24	-3.43	1.44	1.50
84	1	3403	3K5	O9-C30	3.40	1.42	1.35
84	1	3403	3K5	O9-C26	3.30	1.49	1.44
84	1	3403	3K5	O14-C38	3.29	1.42	1.35
85	1	3958	TIX	O07-C24	3.26	1.27	1.21
84	1	3403	3K5	C26-C25	-3.16	1.45	1.52
85	AS	3782	TIX	C26-C19	3.02	1.37	1.32
85	1	3958	TIX	O02-C12	-3.00	1.42	1.46
85	1	3958	TIX	C26-C19	2.99	1.37	1.32
85	1	3958	TIX	C17-C19	2.95	1.55	1.52
85	AS	3782	TIX	C10-C09	2.90	1.63	1.57
84	1	3403	3K5	C9-C8	2.87	1.55	1.47
85	AS	3782	TIX	C16-C12	2.85	1.58	1.52
85	1	3958	TIX	C16-C12	2.83	1.58	1.52
84	1	3403	3K5	C21-C20	-2.79	1.47	1.53
85	AS	3782	TIX	C20-C13	2.71	1.57	1.53
84	1	3403	3K5	O14-C34	2.70	1.48	1.44
85	1	3958	TIX	C11-C17	2.70	1.56	1.52
85	AS	3782	TIX	C13-C19	2.65	1.56	1.51
85	AS	3782	TIX	O02-C12	-2.61	1.43	1.46
84	1	3403	3K5	C4-C3	2.61	1.57	1.52
84	1	3403	3K5	O-C3	2.53	1.45	1.42
84	1	3403	3K5	C1-C5	-2.45	1.47	1.52
85	1	3958	TIX	C20-C13	2.37	1.57	1.53
85	AS	3782	TIX	C11-C09	2.27	1.59	1.54
84	1	3403	3K5	O12-C32	2.12	1.47	1.41

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
84	1	3403	3K5	C27-C28	2.10	1.57	1.52
85	1	3958	TIX	C10-C09	2.07	1.61	1.57
85	AS	3782	TIX	C08-C13	2.00	1.58	1.55

All (54) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	AS	3782	TIX	C15-C08-C12	7.91	125.77	112.79
85	1	3958	TIX	C15-C08-C12	6.86	124.05	112.79
85	AS	3782	TIX	C27-C22-C25	5.91	118.95	110.75
85	1	3958	TIX	O05-C18-C10	-5.57	104.67	112.34
85	1	3958	TIX	O02-C23-O06	-5.40	112.09	117.88
85	1	3958	TIX	C13-C19-C17	5.19	121.13	114.19
84	1	3403	3K5	O14-C38-C39	5.10	120.47	111.09
85	1	3958	TIX	C27-C22-C25	5.06	117.78	110.75
85	AS	3782	TIX	O05-C18-C10	-5.05	105.39	112.34
85	AS	3782	TIX	C16-C14-C10	-4.98	105.90	112.04
84	1	3403	3K5	O-C3-C4	4.95	115.90	110.76
85	1	3958	TIX	C27-C22-C14	4.94	121.60	112.09
85	AS	3782	TIX	C13-C19-C17	4.86	120.69	114.19
85	AS	3782	TIX	O02-C23-O06	-4.70	112.84	117.88
85	AS	3782	TIX	C27-C22-C14	4.57	120.90	112.09
85	1	3958	TIX	C16-C14-C10	-4.49	106.50	112.04
84	1	3403	3K5	O9-C30-C31	4.44	119.25	111.09
85	1	3958	TIX	O01-C11-C17	4.43	112.24	108.24
85	1	3958	TIX	C17-C19-C26	-4.39	118.10	122.99
85	AS	3782	TIX	O07-C24-C18	-4.18	115.73	120.56
85	AS	3782	TIX	C17-C19-C26	-4.16	118.35	122.99
85	1	3958	TIX	C20-C13-C19	-3.73	111.22	114.49
85	1	3958	TIX	O07-C24-C18	-3.72	116.26	120.56
84	1	3403	3K5	O1-C6-C7	3.63	119.62	111.38
85	AS	3782	TIX	O01-C11-C17	3.56	111.45	108.24
85	1	3958	TIX	O02-C23-C20	3.39	125.43	118.86
84	1	3403	3K5	C32-O11-C25	-3.30	109.79	117.96
85	AS	3782	TIX	O02-C23-C20	3.07	124.80	118.86
85	1	3958	TIX	O05-C18-C24	-2.92	105.92	111.82
84	AS	3401	3K5	C4-C3-C15	-2.92	109.37	114.34
85	AS	3782	TIX	C20-C13-C19	-2.86	111.98	114.49
84	AS	3401	3K5	O14-C34-C35	2.81	114.10	107.70
84	1	3403	3K5	C-C1-C5	-2.79	108.97	112.65
84	1	3403	3K5	O4-C22-C21	2.78	118.46	111.36
85	AS	3782	TIX	C25-C24-C18	2.73	122.92	115.28

*Continued on next page...*

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
85	AS	3782	TIX	O03-C11-C09	-2.71	105.55	115.21
84	1	3403	3K5	C3-C4-C5	2.61	117.03	112.27
84	1	3403	3K5	O6-C23-C20	2.59	117.58	111.83
84	1	3403	3K5	O1-C5-C4	2.58	114.25	108.48
85	1	3958	TIX	C25-C24-C18	2.56	122.43	115.28
84	1	3403	3K5	C26-C27-C28	2.52	115.58	110.12
84	1	3403	3K5	C9-C8-C7	-2.52	121.15	126.91
85	1	3958	TIX	O02-C12-C08	2.45	114.90	109.28
84	1	3403	3K5	C4-C3-C15	-2.42	110.22	114.34
84	AS	3401	3K5	C34-O14-C38	2.39	121.41	117.72
85	1	3958	TIX	O01-C15-C08	2.36	108.43	105.67
85	AS	3782	TIX	O02-C12-C08	2.24	114.42	109.28
84	1	3403	3K5	C5-O1-C6	2.23	120.77	117.45
85	1	3958	TIX	O03-C11-C09	-2.21	107.33	115.21
84	1	3403	3K5	C34-O14-C38	-2.20	114.31	117.72
85	AS	3782	TIX	O01-C15-C08	2.20	108.24	105.67
85	AS	3782	TIX	O05-C18-C24	-2.11	107.57	111.82
84	AS	3401	3K5	C20-C21-C22	-2.09	107.41	111.88
85	1	3958	TIX	C16-C14-C22	2.09	114.78	111.67

There are no chirality outliers.

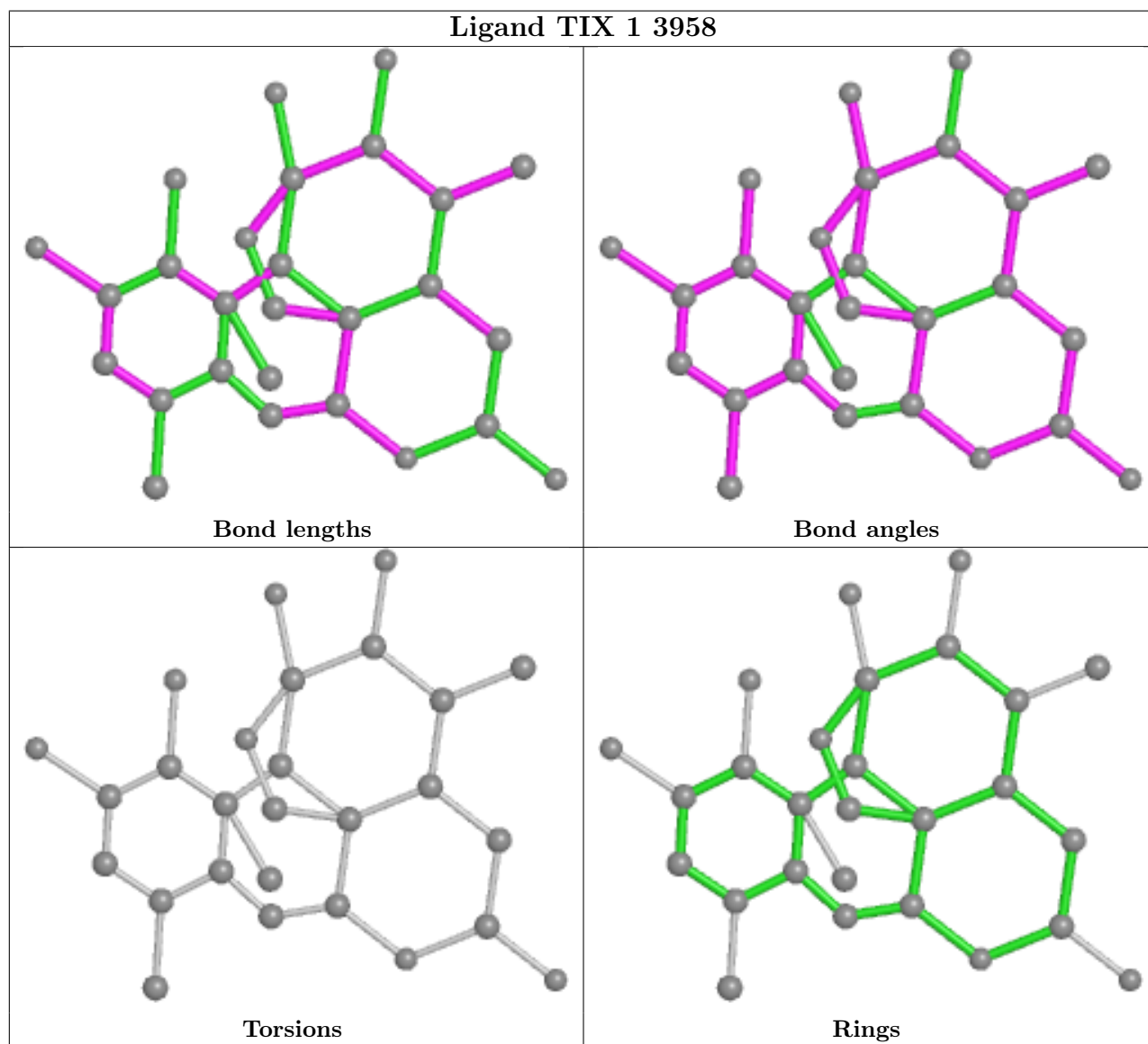
All (15) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
84	1	3403	3K5	C4-C5-O1-C6
84	1	3403	3K5	C7-C6-O1-C5
84	1	3403	3K5	O15-C38-O14-C34
84	1	3403	3K5	C39-C38-O14-C34
84	1	3403	3K5	O7-C24-O6-C23
84	AS	3401	3K5	O15-C38-O14-C34
84	AS	3401	3K5	C39-C38-O14-C34
84	AS	3401	3K5	C35-C34-O14-C38
84	1	3403	3K5	C31-C30-O9-C26
84	1	3403	3K5	O10-C30-O9-C26
84	AS	3401	3K5	C31-C30-O9-C26
84	1	3403	3K5	O2-C6-O1-C5
84	AS	3401	3K5	O10-C30-O9-C26
84	1	3403	3K5	C20-C23-O6-C24
84	1	3403	3K5	O5-C23-O6-C24

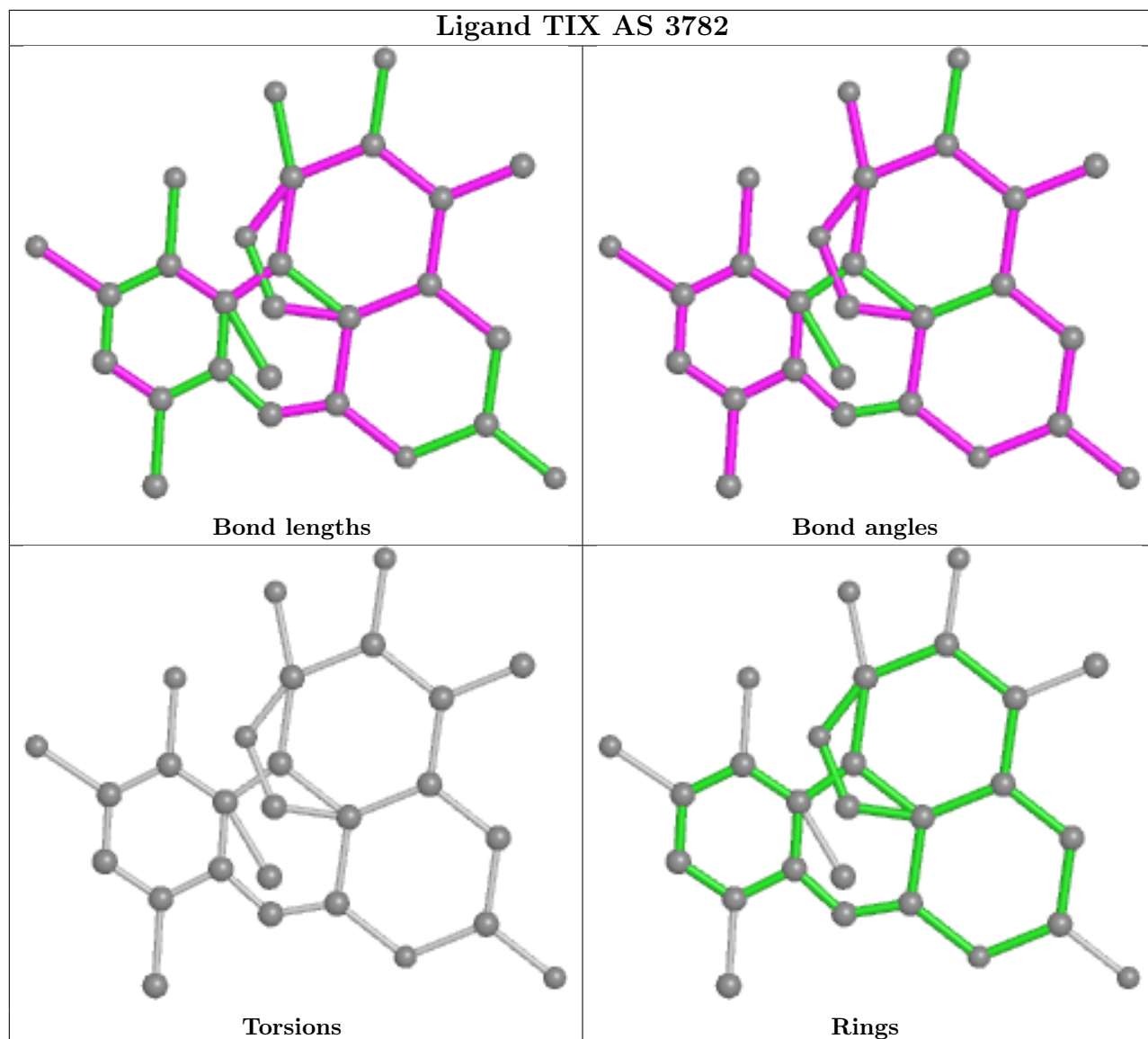
There are no ring outliers.

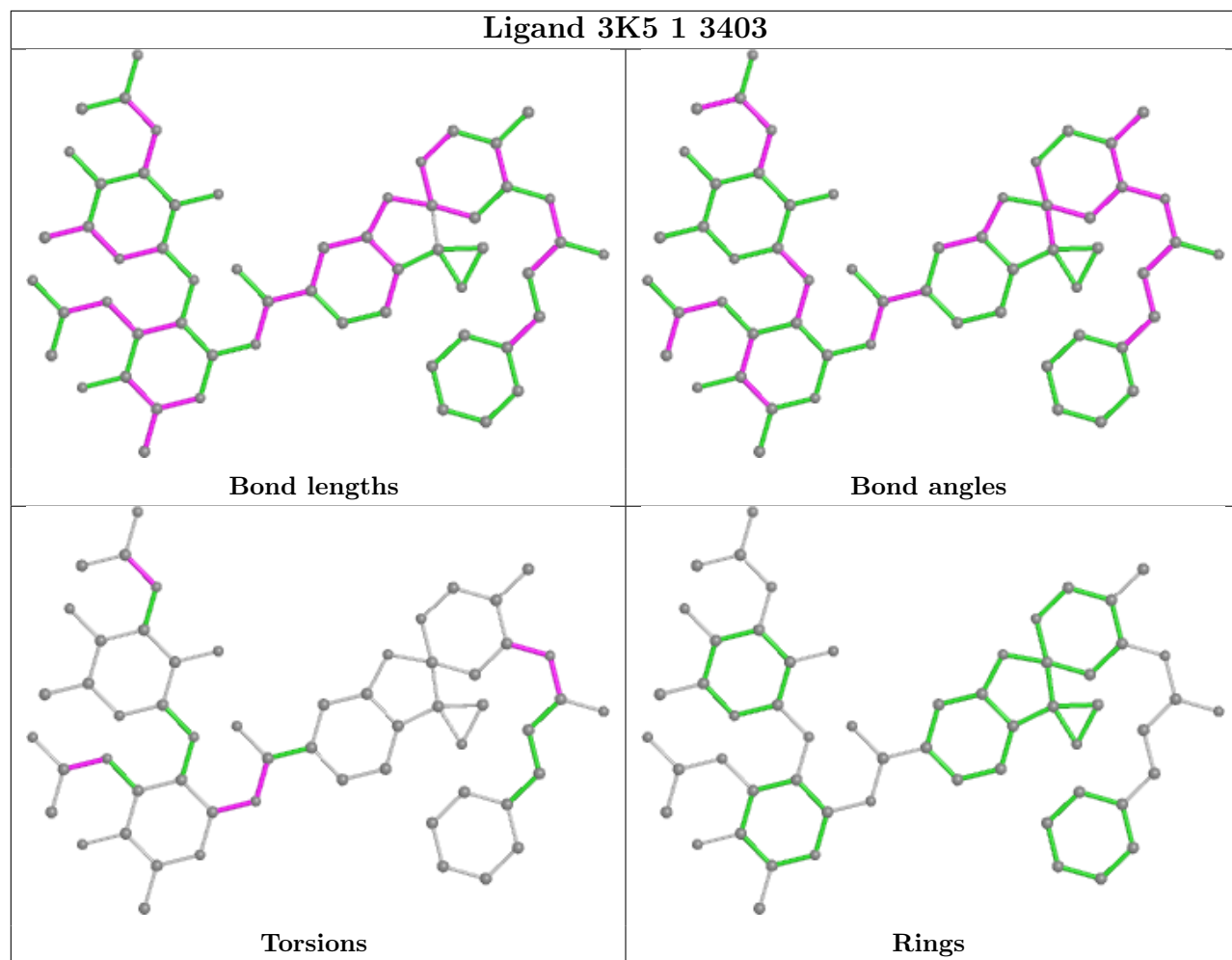
No monomer is involved in short contacts.

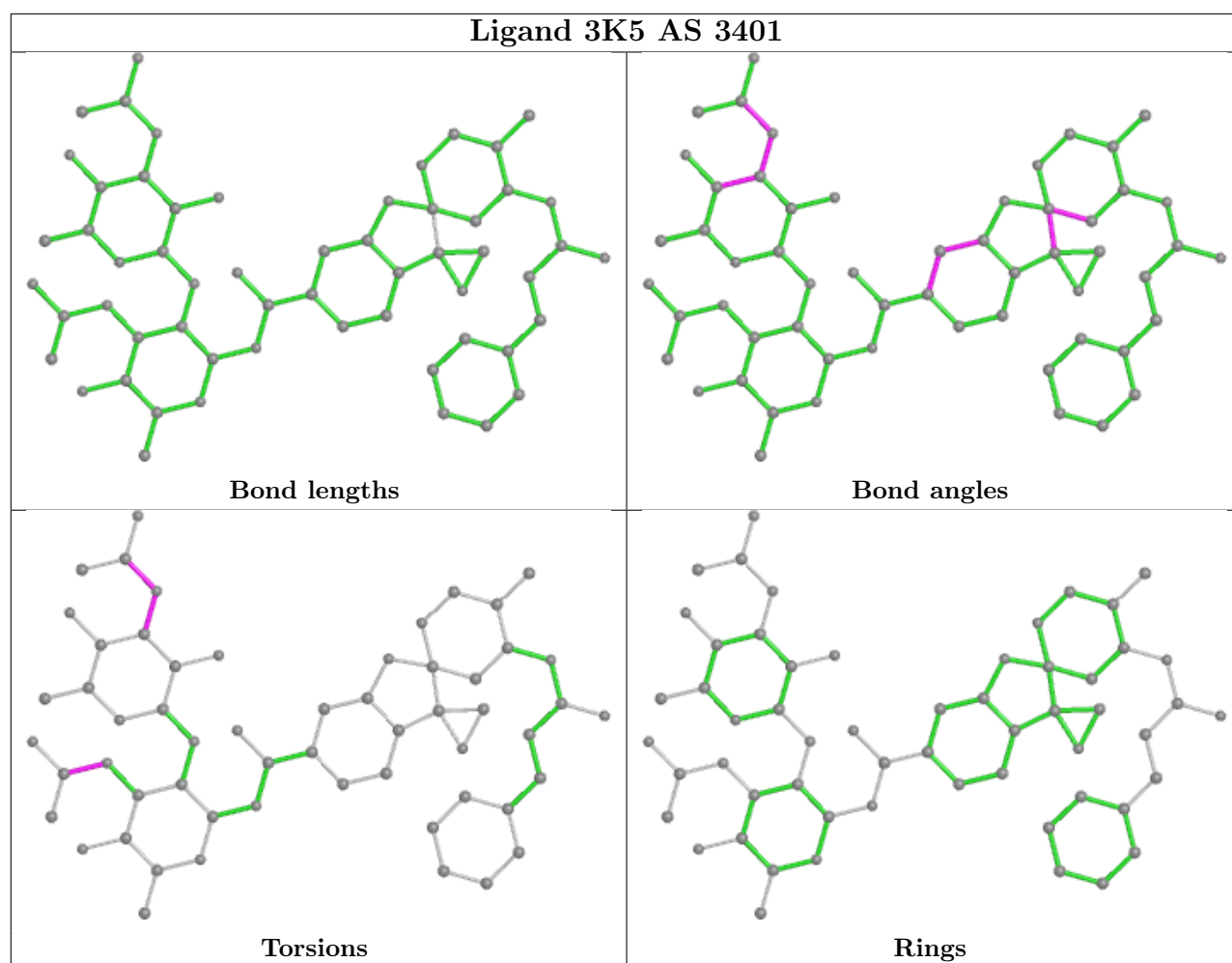
The following is a two-dimensional graphical depiction of Mogul quality analysis of bond lengths, bond angles, torsion angles, and ring geometry for all instances of the Ligand of Interest. In addition, ligands with molecular weight > 250 and outliers as shown on the validation Tables will also be included. 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, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
1	1	3217/3359 (95%)	0.00	24 (0%) 87 69	32, 63, 177, 378	0
1	AS	3229/3359 (96%)	0.05	53 (1%) 72 44	35, 70, 206, 323	0
2	3	121/121 (100%)	-0.24	0 100 100	41, 76, 96, 129	0
2	AT	121/121 (100%)	-0.16	0 100 100	37, 71, 94, 142	0
3	4	157/158 (99%)	-0.11	0 100 100	48, 66, 113, 171	0
3	AU	158/158 (100%)	-0.11	1 (0%) 89 72	55, 92, 141, 221	0
4	AW	249/254 (98%)	1.10	51 (20%) 1 0	41, 75, 99, 109	0
4	j	249/254 (98%)	1.25	53 (21%) 0 0	27, 53, 77, 136	0
5	AX	386/389 (99%)	0.24	5 (1%) 77 51	34, 58, 89, 152	0
5	k	386/389 (99%)	0.44	28 (7%) 15 4	34, 58, 78, 128	0
6	AY	361/363 (99%)	0.96	67 (18%) 1 0	47, 75, 106, 143	0
6	l	361/363 (99%)	1.06	65 (18%) 1 0	37, 70, 104, 140	0
7	AZ	292/298 (97%)	0.63	24 (8%) 11 3	47, 93, 127, 143	0
7	m	296/298 (99%)	0.81	40 (13%) 3 1	48, 87, 119, 145	0
8	BA	153/176 (86%)	0.60	7 (4%) 32 12	47, 70, 103, 132	0
8	n	157/176 (89%)	0.65	13 (8%) 11 3	57, 77, 110, 146	0
9	BB	234/241 (97%)	0.33	8 (3%) 45 19	35, 58, 106, 166	0
9	o	234/241 (97%)	0.53	9 (3%) 40 16	35, 64, 126, 166	0
10	BC	233/262 (88%)	1.62	76 (32%) 0 0	86, 123, 162, 183	0
10	p	238/262 (90%)	1.13	49 (20%) 1 0	55, 79, 131, 167	0
11	BD	190/191 (99%)	0.65	10 (5%) 26 10	56, 75, 105, 150	0
11	q	190/191 (99%)	0.59	10 (5%) 26 10	54, 75, 97, 138	0
12	BE	208/220 (94%)	0.14	3 (1%) 75 49	34, 53, 100, 140	0
12	r	208/220 (94%)	0.83	23 (11%) 5 1	37, 61, 102, 115	0

*Continued on next page...*

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
13	BF	171/174 (98%)	0.48	5 (2%) 51 23	58, 83, 115, 131	0
13	s	171/174 (98%)	0.78	18 (10%) 6 2	58, 90, 113, 125	0
14	BG	200/202 (99%)	0.91	29 (14%) 2 1	49, 96, 130, 153	0
14	t	200/202 (99%)	0.65	27 (13%) 3 1	43, 76, 114, 142	0
15	BH	130/131 (99%)	0.36	5 (3%) 40 16	47, 68, 95, 124	0
15	u	130/131 (99%)	0.08	2 (1%) 73 46	53, 72, 89, 110	0
16	BI	203/204 (99%)	2.76	125 (61%) 0 0	57, 87, 109, 116	0
16	v	203/204 (99%)	1.15	37 (18%) 1 0	35, 57, 73, 83	0
17	BJ	199/200 (99%)	0.54	5 (2%) 57 29	35, 51, 89, 125	0
17	w	199/200 (99%)	0.61	8 (4%) 38 15	36, 55, 85, 113	0
18	BK	176/185 (95%)	1.07	28 (15%) 1 1	45, 65, 95, 130	0
18	x	173/185 (93%)	1.12	32 (18%) 1 0	41, 62, 96, 125	0
19	BL	185/186 (99%)	0.74	25 (13%) 3 1	47, 71, 88, 99	0
19	y	185/186 (99%)	1.09	36 (19%) 1 0	46, 66, 85, 99	0
20	BM	179/190 (94%)	0.64	6 (3%) 45 19	54, 82, 142, 169	0
20	z	179/190 (94%)	0.63	8 (4%) 33 12	52, 71, 127, 143	0
21	0	170/172 (98%)	0.26	5 (2%) 51 23	44, 63, 87, 138	0
21	BN	170/172 (98%)	0.49	6 (3%) 44 18	40, 59, 83, 113	0
22	2	159/160 (99%)	0.99	30 (18%) 1 0	43, 60, 116, 152	0
22	BO	159/160 (99%)	0.90	23 (14%) 2 1	44, 61, 116, 145	0
23	5	103/124 (83%)	0.80	14 (13%) 3 1	84, 111, 142, 162	0
23	BP	102/124 (82%)	0.94	15 (14%) 2 1	92, 129, 152, 176	0
24	6	131/137 (95%)	0.87	15 (11%) 4 1	38, 56, 78, 90	0
24	BQ	131/137 (95%)	0.97	18 (13%) 3 1	34, 54, 77, 98	0
25	7	118/155 (76%)	0.56	9 (7%) 13 4	38, 77, 126, 140	0
25	BR	98/155 (63%)	0.77	10 (10%) 6 2	42, 65, 130, 139	0
26	8	121/142 (85%)	0.98	23 (19%) 1 0	60, 73, 91, 127	0
26	BS	119/142 (83%)	1.46	40 (33%) 0 0	65, 98, 115, 129	0
27	9	126/127 (99%)	1.37	33 (26%) 0 0	58, 78, 99, 117	0
27	BT	126/127 (99%)	1.21	31 (24%) 0 0	65, 93, 131, 147	0
28	AA	135/136 (99%)	0.82	17 (12%) 3 1	64, 88, 109, 143	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
28	BU	135/136 (99%)	1.11	28 (20%)	1	0	93, 120, 141, 167	0
29	AB	148/149 (99%)	1.49	48 (32%)	0	0	37, 62, 87, 126	0
29	BV	148/149 (99%)	0.94	25 (16%)	1	0	47, 74, 100, 114	0
30	AC	62/63 (98%)	1.13	13 (20%)	1	0	42, 75, 123, 147	0
30	BW	61/63 (96%)	1.23	15 (24%)	0	0	46, 81, 120, 140	0
31	AD	96/106 (90%)	0.30	3 (3%)	49	21	57, 76, 100, 111	0
31	BX	96/106 (90%)	1.09	17 (17%)	1	0	86, 109, 132, 149	0
32	AE	110/112 (98%)	1.06	17 (15%)	2	1	48, 67, 110, 148	0
32	BY	110/112 (98%)	0.97	15 (13%)	3	1	47, 75, 121, 151	0
33	AF	124/131 (94%)	1.17	23 (18%)	1	0	35, 66, 83, 106	0
33	BZ	124/131 (94%)	0.98	13 (10%)	6	2	34, 63, 90, 112	0
34	AG	106/107 (99%)	0.63	6 (5%)	23	8	47, 60, 76, 93	0
34	CA	106/107 (99%)	0.64	4 (3%)	40	16	40, 54, 74, 87	0
35	AH	112/122 (91%)	1.17	26 (23%)	0	0	52, 70, 118, 140	0
35	CB	112/122 (91%)	1.76	44 (39%)	0	0	62, 98, 137, 159	0
36	AI	120/120 (100%)	1.11	22 (18%)	1	0	58, 82, 110, 126	0
36	CC	118/120 (98%)	1.35	36 (30%)	0	0	81, 105, 127, 161	0
37	AJ	97/99 (97%)	0.82	12 (12%)	4	1	54, 72, 100, 168	0
37	CD	97/99 (97%)	1.03	22 (22%)	0	0	83, 99, 128, 152	0
38	AK	86/87 (98%)	1.23	19 (22%)	0	0	41, 55, 95, 111	0
38	CE	86/87 (98%)	1.63	28 (32%)	0	0	47, 74, 115, 128	0
39	AL	77/78 (98%)	1.24	17 (22%)	0	0	77, 98, 133, 165	0
39	CF	77/78 (98%)	2.33	33 (42%)	0	0	90, 118, 156, 165	0
40	AM	50/51 (98%)	1.02	4 (8%)	12	4	47, 64, 83, 92	0
40	CG	50/51 (98%)	1.79	20 (40%)	0	0	58, 80, 98, 103	0
41	AN	52/52 (100%)	1.05	5 (9%)	8	2	75, 101, 116, 132	0
41	CH	51/52 (98%)	0.95	7 (13%)	3	1	73, 105, 122, 126	0
42	AO	25/25 (100%)	3.14	19 (76%)	0	0	55, 67, 76, 85	0
42	CI	24/25 (96%)	2.39	15 (62%)	0	0	48, 60, 68, 73	0
43	AP	103/106 (97%)	0.74	10 (9%)	7	2	31, 61, 98, 121	0
43	CJ	103/106 (97%)	0.65	9 (8%)	10	3	40, 73, 115, 122	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
44	AQ	91/92 (98%)	1.12	17 (18%) 1 0	40, 58, 101, 116	0
44	CK	91/92 (98%)	1.10	17 (18%) 1 0	48, 78, 110, 121	0
45	CL	121/267 (45%)	0.69	9 (7%) 14 4	59, 92, 127, 139	0
45	i	121/267 (45%)	0.79	17 (14%) 2 1	63, 106, 136, 143	0
46	B	1761/1787 (98%)	0.07	45 (2%) 56 27	46, 87, 178, 458	0
46	CM	1765/1787 (98%)	0.07	45 (2%) 57 29	40, 79, 182, 465	0
47	C	208/261 (79%)	0.67	21 (10%) 7 2	80, 114, 140, 154	0
47	CN	208/261 (79%)	0.46	10 (4%) 30 11	62, 101, 130, 165	0
48	CO	214/256 (83%)	0.95	37 (17%) 1 0	76, 118, 139, 166	0
48	D	214/256 (83%)	0.68	18 (8%) 11 3	67, 92, 115, 127	0
49	CP	217/249 (87%)	0.43	14 (6%) 18 5	46, 71, 98, 118	0
49	E	217/249 (87%)	1.55	82 (37%) 0 0	71, 95, 121, 144	0
50	CQ	223/251 (88%)	0.70	21 (9%) 8 3	53, 77, 136, 169	0
50	F	223/251 (88%)	1.71	84 (37%) 0 0	73, 106, 152, 173	0
51	CR	260/262 (99%)	1.38	74 (28%) 0 0	62, 87, 111, 146	0
51	G	259/262 (98%)	1.38	72 (27%) 0 0	68, 96, 119, 143	0
52	CS	206/225 (91%)	1.32	44 (21%) 0 0	68, 101, 146, 194	0
52	H	206/225 (91%)	1.49	59 (28%) 0 0	76, 102, 142, 162	0
53	CT	236/236 (100%)	0.84	31 (13%) 3 1	52, 98, 139, 158	0
53	I	226/236 (95%)	0.68	24 (10%) 6 2	60, 98, 147, 179	0
54	CU	183/186 (98%)	0.83	28 (15%) 2 1	68, 127, 165, 179	0
54	J	185/186 (99%)	1.49	55 (29%) 0 0	80, 129, 156, 164	0
55	CV	203/206 (98%)	0.88	27 (13%) 3 1	41, 71, 122, 150	0
55	K	203/206 (98%)	0.78	23 (11%) 5 1	37, 80, 124, 156	0
56	CW	178/189 (94%)	1.20	47 (26%) 0 0	65, 94, 119, 140	0
56	L	178/189 (94%)	2.20	90 (50%) 0 0	74, 108, 126, 147	0
57	CX	94/118 (79%)	0.80	8 (8%) 10 3	54, 86, 128, 142	0
57	M	98/118 (83%)	1.24	23 (23%) 0 0	83, 117, 143, 161	0
58	CY	141/155 (90%)	1.02	23 (16%) 1 0	45, 67, 93, 145	0
58	N	144/155 (92%)	1.33	39 (27%) 0 0	45, 78, 114, 156	0
59	CZ	119/143 (83%)	1.12	23 (19%) 1 0	130, 159, 176, 180	0

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
59	O	116/143 (81%)	2.01	42 (36%) 0 0	151, 178, 195, 200	0
60	DA	150/151 (99%)	1.20	33 (22%) 0 0	58, 92, 121, 136	0
60	P	150/151 (99%)	1.02	21 (14%) 2 1	55, 92, 112, 120	0
61	DB	127/132 (96%)	0.90	19 (14%) 2 1	55, 99, 125, 132	0
61	Q	127/132 (96%)	0.39	4 (3%) 49 21	51, 79, 98, 111	0
62	DC	130/142 (91%)	1.19	25 (19%) 1 0	58, 91, 128, 145	0
62	R	129/142 (90%)	1.28	32 (24%) 0 0	63, 98, 136, 151	0
63	DD	140/142 (98%)	1.61	53 (37%) 0 0	61, 98, 133, 145	0
63	S	140/142 (98%)	3.09	75 (53%) 0 0	70, 110, 145, 155	0
64	DE	124/137 (90%)	1.10	24 (19%) 1 0	62, 112, 160, 169	0
64	T	124/137 (90%)	1.83	45 (36%) 0 0	87, 122, 167, 171	0
65	DF	141/145 (97%)	0.72	10 (7%) 16 5	59, 93, 124, 154	0
65	U	144/145 (99%)	0.62	11 (7%) 13 4	60, 86, 114, 150	0
66	DG	141/145 (97%)	0.72	14 (9%) 7 2	58, 93, 117, 153	0
66	V	141/145 (97%)	0.86	24 (17%) 1 0	79, 101, 135, 147	0
67	DH	97/119 (81%)	0.67	9 (9%) 8 3	46, 96, 125, 144	0
67	W	102/119 (85%)	1.30	25 (24%) 0 0	72, 122, 147, 157	0
68	DI	87/87 (100%)	0.12	0 100 100	61, 86, 120, 144	0
68	X	87/87 (100%)	0.52	8 (9%) 9 3	83, 102, 123, 127	0
69	DJ	129/130 (99%)	0.82	18 (13%) 2 1	49, 67, 87, 93	0
69	Y	129/130 (99%)	1.23	26 (20%) 1 0	67, 84, 103, 121	0
70	DK	143/145 (98%)	0.87	14 (9%) 7 2	43, 64, 88, 113	0
70	Z	143/145 (98%)	0.78	16 (11%) 5 1	52, 73, 92, 106	0
71	DL	132/135 (97%)	0.73	19 (14%) 2 1	77, 112, 132, 174	0
71	a	134/135 (99%)	1.20	34 (25%) 0 0	74, 113, 126, 156	0
72	DM	71/105 (67%)	0.75	8 (11%) 5 1	93, 124, 143, 149	0
72	b	72/105 (68%)	0.30	6 (8%) 11 3	87, 109, 132, 143	0
73	DN	98/119 (82%)	1.06	23 (23%) 0 0	56, 77, 136, 143	0
73	c	98/119 (82%)	1.21	23 (23%) 0 0	60, 83, 128, 139	0
74	DO	81/82 (98%)	0.86	15 (18%) 1 0	71, 105, 166, 173	0
74	d	81/82 (98%)	0.67	6 (7%) 14 4	80, 101, 155, 169	0

Continued on next page...



Continued from previous page...

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å <sup>2</sup> )	Q<0.9
75	DP	61/67 (91%)	0.65	3 (4%) 29 11	78, 108, 132, 152	0
75	e	62/67 (92%)	1.53	19 (30%) 0 0	90, 110, 134, 143	0
76	DQ	54/56 (96%)	1.02	8 (14%) 2 1	49, 67, 89, 109	0
76	f	55/56 (98%)	0.99	10 (18%) 1 0	71, 89, 114, 136	0
77	DR	58/63 (92%)	1.41	14 (24%) 0 0	69, 99, 156, 178	0
77	g	60/63 (95%)	1.40	19 (31%) 0 0	76, 105, 151, 167	0
78	DS	70/193 (36%)	1.50	24 (34%) 0 0	92, 164, 183, 195	0
78	h	70/193 (36%)	2.02	28 (40%) 0 0	117, 163, 189, 191	0
79	AR	311/317 (98%)	2.50	152 (48%) 0 0	118, 156, 178, 192	0
79	DT	311/317 (98%)	1.43	86 (27%) 0 0	107, 150, 175, 192	0
80	P0	107/312 (34%)	1.82	41 (38%) 0 0	113, 127, 146, 154	0
80	p0	107/312 (34%)	2.99	50 (46%) 0 0	116, 139, 156, 164	0
81	12	63/165 (38%)	0.98	12 (19%) 1 0	111, 130, 149, 158	0
82	L1	217/217 (100%)	1.61	79 (36%) 0 0	99, 128, 165, 231	0
82	l1	217/217 (100%)	1.66	65 (29%) 0 0	110, 137, 163, 196	0
All	All	33669/36343 (92%)	0.71	4298 (12%) 3 1	27, 81, 155, 465	0

All (4298) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
80	p0	28	VAL	30.9
82	l1	1	MET	23.2
52	CS	152	SER	18.6
46	CM	1680	A	16.3
63	S	65	ARG	15.1
79	AR	80	TYR	15.0
80	p0	29	GLY	14.1
56	L	35	GLY	14.0
82	l1	213	SER	13.5
59	O	89	ILE	13.3
79	AR	208	CYS	13.1
82	l1	2	SER	13.0
52	CS	154	THR	12.9
1	1	2453	G	12.4
52	CS	153	GLY	11.9
54	J	176	GLN	11.8
63	S	5	SER	11.8

Continued on next page...

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	CM	132	U	11.7
52	CS	151	SER	11.5
64	T	125	SER	11.4
46	CM	133	U	11.3
79	AR	32	LEU	11.2
80	p0	74	GLU	11.0
64	T	70	SER	10.9
6	AY	363	ASN	10.9
10	BC	119	GLU	10.9
6	l	363	ASN	10.8
63	S	50	PRO	10.8
80	p0	88	PHE	10.6
80	P0	26	PHE	10.6
52	CS	155	VAL	10.6
1	AS	1758	U	10.4
80	p0	98	ASP	10.3
63	S	21	VAL	10.2
79	AR	62	PHE	10.2
53	CT	236	ASN	10.0
10	BC	122	THR	9.9
59	O	111	ASN	9.8
79	AR	34	LEU	9.7
79	AR	75	SER	9.7
79	AR	201	LEU	9.6
59	O	90	LYS	9.6
79	AR	260	PHE	9.5
71	a	135	ASP	9.5
46	CM	1679	A	9.5
1	1	2454	C	9.4
78	h	164	PRO	9.4
80	p0	27	VAL	9.3
46	B	708	A	9.3
46	B	132	U	9.3
10	p	262	ASN	9.2
10	BC	118	ALA	8.9
80	p0	73	PHE	8.9
80	p0	79	PHE	8.9
79	DT	80	TYR	8.9
79	AR	122	GLN	8.9
79	AR	74	ILE	8.8
52	H	86	GLN	8.8
33	BZ	126	LYS	8.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
80	p0	71	PRO	8.8
82	l1	23	THR	8.7
12	r	102	MET	8.7
59	O	93	ASP	8.6
12	r	114	GLY	8.6
63	S	63	ASP	8.6
38	CE	2	GLY	8.6
63	S	7	GLN	8.6
63	S	67	LYS	8.5
82	l1	214	PHE	8.5
10	BC	115	ALA	8.4
46	CM	1678	G	8.4
67	W	109	PRO	8.4
1	AS	3319	U	8.4
64	T	12	ALA	8.4
46	B	715	G	8.3
52	H	150	GLY	8.3
50	F	191	LYS	8.3
52	H	70	VAL	8.3
54	J	87	VAL	8.2
79	AR	290	ALA	8.2
80	p0	108	PRO	8.2
79	DT	290	ALA	8.1
79	AR	55	TYR	8.0
79	AR	266	SER	8.0
77	g	49	LEU	8.0
10	BC	153	LEU	8.0
8	n	1	MET	7.9
80	p0	106	ALA	7.9
80	p0	70	LEU	7.8
79	DT	34	LEU	7.8
79	AR	66	SER	7.8
14	t	2	ALA	7.8
82	L1	179	LEU	7.8
51	G	110	ALA	7.7
79	AR	76	ALA	7.7
82	l1	27	ASN	7.7
46	CM	75	U	7.6
46	CM	131	C	7.6
22	2	103	GLN	7.6
63	S	22	LYS	7.6
63	S	90	ALA	7.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
65	U	2	PRO	7.5
50	F	153	TYR	7.5
79	DT	208	CYS	7.5
52	H	151	SER	7.5
64	T	68	GLY	7.5
46	CM	1697	C	7.4
56	L	33	GLU	7.4
54	J	179	PHE	7.4
63	S	8	THR	7.4
56	L	138	LYS	7.4
79	AR	26	THR	7.3
27	9	45	VAL	7.3
63	S	20	HIS	7.3
63	S	6	VAL	7.3
64	T	69	ILE	7.3
79	AR	82	LEU	7.3
67	W	81	TYR	7.3
14	BG	2	ALA	7.2
63	S	2	SER	7.2
46	B	711	U	7.2
36	AI	120	ALA	7.1
1	1	2436	A	7.1
63	S	116	LEU	7.1
79	AR	42	LEU	7.1
54	J	182	PRO	7.0
79	AR	142	MET	7.0
16	BI	117	ASN	7.0
80	P0	2	GLY	7.0
42	AO	25	LYS	7.0
63	S	19	ALA	7.0
77	g	51	ASN	6.9
11	q	190	GLU	6.9
77	DR	61	ALA	6.9
48	CO	54	LEU	6.9
82	l1	110	PHE	6.9
59	O	31	VAL	6.9
16	BI	116	LEU	6.9
79	DT	24	ALA	6.9
16	BI	111	SER	6.8
52	H	148	ARG	6.8
82	L1	69	GLY	6.8
10	BC	199	ALA	6.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	CM	134	A	6.8
63	S	54	VAL	6.8
27	9	44	ASN	6.7
39	CF	30	LYS	6.7
39	CF	43	PHE	6.7
39	CF	34	ASN	6.7
79	AR	207	LEU	6.7
63	S	80	ILE	6.6
68	X	56	SER	6.6
59	O	27	ALA	6.6
79	AR	25	THR	6.6
79	AR	101	THR	6.6
79	AR	262	LEU	6.6
39	CF	35	GLY	6.6
49	E	161	ALA	6.6
63	S	11	LYS	6.6
16	BI	164	LEU	6.6
54	J	186	HIS	6.6
45	i	116	GLU	6.6
63	S	27	LEU	6.5
60	P	151	ALA	6.5
71	a	69	SER	6.5
52	H	23	VAL	6.5
52	H	71	SER	6.5
6	AY	66	TRP	6.5
50	F	151	GLN	6.5
77	DR	34	ALA	6.5
78	h	155	ASN	6.4
80	p0	22	TYR	6.4
79	DT	260	PHE	6.4
79	DT	154	ALA	6.4
1	AS	1262	G	6.4
64	T	66	VAL	6.4
75	DP	66	LEU	6.4
16	BI	43	SER	6.4
79	AR	206	SER	6.4
35	CB	30	LEU	6.4
7	m	169	GLY	6.4
62	DC	49	LEU	6.3
82	l1	68	PHE	6.3
82	l1	12	ASN	6.3
59	O	30	VAL	6.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
79	AR	35	SER	6.3
19	y	94	LEU	6.3
1	AS	2472	A	6.3
39	CF	57	ASN	6.3
58	N	28	ASN	6.3
80	p0	85	GLY	6.3
63	S	68	VAL	6.2
79	AR	251	ALA	6.2
59	O	100	TRP	6.2
79	DT	75	SER	6.2
80	p0	23	LYS	6.2
79	AR	209	ALA	6.2
6	l	3	SER	6.2
46	B	1339	G	6.2
46	CM	657	C	6.2
16	BI	132	VAL	6.2
53	CT	233	SER	6.2
52	H	152	SER	6.2
79	AR	289	LEU	6.1
27	BT	124	GLY	6.1
52	H	145	ASP	6.1
80	p0	87	ILE	6.1
79	AR	157	ILE	6.1
6	AY	61	THR	6.1
46	B	656	C	6.1
18	BK	126	ARG	6.1
16	BI	51	LEU	6.1
56	L	146	PHE	6.1
56	L	113	VAL	6.0
51	CR	246	LYS	6.0
80	p0	105	VAL	6.0
16	v	204	SER	6.0
39	AL	33	ALA	6.0
22	BO	103	GLN	6.0
18	BK	185	ALA	6.0
52	H	76	LYS	6.0
60	P	150	VAL	6.0
80	p0	67	LEU	6.0
58	CY	32	LYS	6.0
6	AY	73	ALA	6.0
56	L	118	LEU	6.0
7	AZ	279	ARG	6.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	B	714	G	6.0
51	CR	245	ILE	6.0
65	DF	120	ARG	6.0
75	e	66	LEU	6.0
71	DL	25	ILE	6.0
54	J	185	SER	5.9
49	E	86	ARG	5.9
79	AR	79	ALA	5.9
79	AR	81	ALA	5.9
57	M	87	LEU	5.9
79	AR	298	LEU	5.9
16	BI	62	TYR	5.9
42	AO	6	ARG	5.9
82	ll	43	PRO	5.9
78	h	156	VAL	5.9
10	BC	114	ALA	5.9
63	S	3	THR	5.9
16	BI	36	ILE	5.9
46	CM	1698	U	5.9
79	DT	13	LEU	5.9
8	BA	108	GLU	5.9
10	BC	151	LEU	5.9
66	V	18	TYR	5.8
27	9	33	ALA	5.8
54	J	77	LEU	5.8
63	S	43	LEU	5.8
66	V	119	LYS	5.8
62	R	116	LEU	5.8
16	BI	59	PHE	5.8
48	CO	90	GLU	5.8
80	p0	69	GLU	5.8
10	BC	179	ALA	5.8
79	AR	198	CYS	5.8
51	G	260	GLN	5.8
50	F	212	ALA	5.8
80	p0	107	ALA	5.8
63	S	105	LYS	5.8
63	S	94	LYS	5.8
48	CO	218	LEU	5.8
59	O	118	ALA	5.8
62	R	9	LYS	5.8
52	H	72	HIS	5.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	G	228	ILE	5.8
63	S	10	GLY	5.8
16	BI	63	ARG	5.7
54	J	184	GLU	5.7
16	BI	134	LEU	5.7
46	B	657	C	5.7
73	c	39	VAL	5.7
50	F	155	ASP	5.7
49	CP	86	ARG	5.7
63	S	51	LEU	5.7
51	G	39	ARG	5.7
54	J	66	TYR	5.7
50	F	41	ARG	5.7
8	n	2	SER	5.7
80	p0	68	SER	5.7
45	CL	84	SER	5.7
49	E	89	GLN	5.7
63	S	23	ALA	5.7
64	DE	91	LEU	5.7
79	AR	279	ALA	5.7
66	V	2	PRO	5.7
79	DT	262	LEU	5.7
1	1	1021	A	5.7
51	G	111	VAL	5.7
56	L	36	LEU	5.6
67	W	107	ILE	5.6
16	BI	57	GLN	5.6
79	AR	27	PRO	5.6
79	AR	28	ALA	5.6
22	BO	2	GLY	5.6
82	L1	1	MET	5.6
80	P0	92	ASP	5.6
54	J	43	LYS	5.6
51	CR	39	ARG	5.6
79	DT	74	ILE	5.6
35	CB	16	ARG	5.6
80	P0	88	PHE	5.6
27	9	4	ILE	5.6
50	F	203	LEU	5.6
46	B	716	C	5.6
51	CR	198	ARG	5.6
6	AY	245	LEU	5.6

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	BI	58	GLY	5.6
50	F	206	ALA	5.6
78	h	125	LYS	5.6
65	U	145	ARG	5.5
49	E	173	ILE	5.5
63	S	87	GLY	5.5
16	BI	4	TYR	5.5
39	CF	21	LYS	5.5
6	AY	3	SER	5.5
52	H	44	ASN	5.5
82	L1	27	ASN	5.5
59	CZ	48	ALA	5.5
46	B	134	A	5.5
67	DH	81	TYR	5.5
1	1	1758	U	5.5
78	h	145	LEU	5.5
4	AW	235	ALA	5.5
50	F	154	ALA	5.5
1	AS	1266	A	5.5
16	BI	118	SER	5.5
51	CR	9	LEU	5.5
63	S	31	ASN	5.5
16	BI	204	SER	5.5
82	l1	66	CYS	5.5
82	l1	24	LYS	5.5
16	BI	101	THR	5.4
10	p	201	LEU	5.4
56	L	116	LEU	5.4
10	BC	123	ALA	5.4
73	DN	67	LEU	5.4
18	BK	2	VAL	5.4
79	AR	267	LEU	5.4
42	AO	5	TRP	5.4
51	G	208	VAL	5.4
77	DR	51	ASN	5.4
59	O	48	ALA	5.4
32	BY	26	LYS	5.4
33	AF	53	GLN	5.4
10	BC	117	ILE	5.4
46	CM	712	A	5.4
46	B	709	U	5.3
27	9	127	GLU	5.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	E	114	LYS	5.3
33	AF	125	GLY	5.3
35	CB	8	ARG	5.3
39	CF	36	LYS	5.3
49	E	77	LYS	5.3
52	H	149	ILE	5.3
62	R	6	ALA	5.3
63	S	86	LYS	5.3
1	AS	2450	U	5.3
46	CM	708	A	5.3
53	I	49	ILE	5.3
57	M	88	PRO	5.3
82	ll	194	LEU	5.3
51	G	88	ASP	5.3
10	p	258	VAL	5.3
26	BS	110	VAL	5.3
50	F	122	GLY	5.3
30	AC	21	ILE	5.3
59	O	62	LEU	5.3
56	L	29	LYS	5.2
79	AR	77	ASP	5.2
79	AR	67	HIS	5.2
79	DT	210	SER	5.2
63	DD	20	HIS	5.2
64	T	11	ARG	5.2
78	h	170	ALA	5.2
82	ll	28	PHE	5.2
79	AR	100	THR	5.2
80	p0	89	THR	5.2
48	D	54	LEU	5.2
28	BU	133	LYS	5.2
19	y	169	GLY	5.2
19	y	168	LYS	5.2
52	H	130	ILE	5.2
79	AR	93	TRP	5.2
46	CM	711	U	5.2
56	L	32	GLY	5.1
82	ll	30	GLU	5.1
37	AJ	97	ARG	5.1
51	CR	247	LEU	5.1
31	BX	99	ASP	5.1
63	S	64	ILE	5.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
63	S	66	VAL	5.1
36	CC	120	ALA	5.1
27	BT	121	ARG	5.1
16	BI	6	TYR	5.1
14	t	3	ILE	5.1
52	H	79	SER	5.1
48	CO	102	GLY	5.1
79	AR	50	GLY	5.1
10	BC	152	VAL	5.1
50	F	137	VAL	5.1
16	BI	108	ARG	5.1
79	DT	106	GLY	5.1
79	AR	253	THR	5.1
1	1	2466	A	5.1
56	L	151	ASP	5.1
10	BC	178	TYR	5.1
79	AR	23	LEU	5.1
59	O	119	SER	5.1
79	AR	247	TYR	5.1
30	BW	10	HIS	5.1
52	H	51	VAL	5.1
23	BP	70	GLY	5.1
62	R	17	PHE	5.1
50	F	48	GLU	5.1
16	BI	56	LYS	5.0
74	DO	24	LEU	5.0
82	L1	28	PHE	5.0
80	P0	11	TYR	5.0
80	P0	86	PHE	5.0
63	DD	21	VAL	5.0
75	e	53	ILE	5.0
39	CF	78	LEU	5.0
16	BI	142	ILE	5.0
80	p0	84	VAL	5.0
45	CL	81	THR	5.0
66	V	116	ILE	5.0
49	E	162	VAL	5.0
10	BC	120	GLY	5.0
26	BS	36	LYS	5.0
79	DT	32	LEU	5.0
79	AR	106	GLY	5.0
50	F	136	GLU	5.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
10	BC	154	ILE	5.0
63	S	39	GLN	5.0
79	DT	155	VAL	5.0
29	AB	79	TRP	5.0
50	F	168	PHE	5.0
1	AS	545	G	5.0
79	DT	163	SER	4.9
82	L1	112	ALA	4.9
16	BI	151	ILE	4.9
23	BP	10	LYS	4.9
82	L1	123	LEU	4.9
16	BI	148	TYR	4.9
82	l1	69	GLY	4.9
49	E	210	PHE	4.9
56	L	152	SER	4.9
51	CR	93	GLU	4.9
14	BG	85	ILE	4.9
78	h	159	LEU	4.9
61	DB	85	LYS	4.9
16	BI	60	VAL	4.9
77	DR	60	PRO	4.9
36	CC	3	GLY	4.9
19	y	93	LEU	4.9
40	CG	4	GLN	4.9
4	AW	104	LEU	4.9
32	BY	2	ALA	4.9
51	CR	109	PHE	4.9
56	L	34	TYR	4.9
77	g	54	ARG	4.9
39	CF	41	THR	4.9
40	CG	12	LYS	4.9
79	AR	137	THR	4.8
36	AI	2	ALA	4.8
82	l1	217	TYR	4.8
82	L1	12	ASN	4.8
39	CF	45	VAL	4.8
51	CR	101	LEU	4.8
78	DS	129	THR	4.8
71	a	7	ILE	4.8
1	1	545	G	4.8
46	B	1677	G	4.8
49	E	110	ILE	4.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
58	CY	16	GLN	4.8
63	S	120	SER	4.8
79	DT	5	GLU	4.8
35	CB	57	LEU	4.8
63	S	53	LEU	4.8
6	l	352	PRO	4.8
65	U	115	ARG	4.8
79	AR	249	LEU	4.8
46	B	1	U	4.8
48	CO	63	GLY	4.8
10	BC	198	VAL	4.8
16	v	151	ILE	4.8
31	BX	106	ILE	4.8
59	O	101	ALA	4.8
63	S	95	TYR	4.7
54	J	150	LEU	4.7
61	DB	35	ALA	4.7
16	BI	66	VAL	4.7
52	H	40	VAL	4.7
62	DC	7	PRO	4.7
42	AO	16	LYS	4.7
82	L1	40	ASN	4.7
40	CG	21[A]	ARG	4.7
16	BI	198	SER	4.7
12	r	113	GLN	4.7
50	F	172	ALA	4.7
58	N	2	ALA	4.7
28	AA	25	ILE	4.7
81	12	141	CYS	4.7
63	S	91	TYR	4.7
78	h	122	ARG	4.7
56	L	109	LEU	4.7
16	BI	100	SER	4.7
79	DT	73	THR	4.7
1	1	1345	G	4.7
46	B	1348	U	4.7
6	l	147	LYS	4.7
75	e	49	ARG	4.7
82	ll	163	LEU	4.7
10	p	179	ALA	4.7
63	S	93	GLN	4.7
63	S	118	ALA	4.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
44	CK	13	LYS	4.7
49	CP	173	ILE	4.7
52	H	161	ASP	4.7
27	9	6	GLN	4.7
19	y	2	GLY	4.7
56	L	148	VAL	4.7
62	DC	8	LYS	4.7
67	W	60	LYS	4.7
71	a	67	GLY	4.7
79	AR	63	LYS	4.7
16	BI	106	VAL	4.7
30	BW	35	VAL	4.7
63	S	119	ASP	4.7
18	BK	184	ALA	4.7
47	C	98	ILE	4.6
5	k	4	ARG	4.6
10	BC	150	LYS	4.6
36	AI	21	LEU	4.6
46	B	707	C	4.6
79	AR	47	LEU	4.6
59	CZ	119	SER	4.6
73	c	36	ILE	4.6
33	AF	123	PRO	4.6
64	T	102	ILE	4.6
10	p	261	SER	4.6
16	BI	128	LYS	4.6
7	m	8	ARG	4.6
56	CW	37	LYS	4.6
7	m	274	GLN	4.6
63	S	108	PHE	4.6
24	BQ	137	VAL	4.6
12	BE	102	MET	4.6
25	BR	78	HIS	4.6
16	BI	64	ILE	4.6
78	h	172	ILE	4.6
54	J	149	LEU	4.6
46	CM	658	A	4.6
62	R	102	PHE	4.6
54	J	86	VAL	4.6
63	S	18	VAL	4.6
57	CX	12	HIS	4.6
74	d	24	LEU	4.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
50	F	53	ALA	4.5
82	L1	68	PHE	4.5
64	T	42	GLN	4.5
4	j	71	LEU	4.5
82	L1	190	LEU	4.5
4	j	70[A]	LYS	4.5
39	CF	22	SER	4.5
50	F	211	GLU	4.5
54	J	180	GLU	4.5
26	BS	32	PHE	4.5
67	W	64	ILE	4.5
66	DG	119	LYS	4.5
79	AR	147	GLY	4.5
33	BZ	36	GLN	4.5
82	L1	34	LEU	4.5
12	r	199	PHE	4.5
71	a	23	PHE	4.5
42	AO	3	ASP	4.5
10	p	137	LEU	4.5
10	p	151	LEU	4.5
78	DS	172	ILE	4.5
16	BI	197	LEU	4.5
36	CC	83	LYS	4.5
54	CU	77	LEU	4.5
46	CM	1696	U	4.5
78	DS	191	LYS	4.5
16	BI	130	PHE	4.5
76	f	43	PHE	4.5
43	AP	15	LYS	4.5
16	BI	147	ARG	4.5
60	P	7	SER	4.5
50	F	217	GLU	4.5
16	BI	54	LYS	4.5
71	a	9	THR	4.5
23	5	111	TYR	4.5
32	BY	83	ASP	4.5
46	B	710	U	4.5
63	S	114	THR	4.5
79	DT	157	ILE	4.5
14	t	5	LYS	4.5
39	CF	37	LYS	4.5
51	CR	191	ARG	4.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
78	DS	164	PRO	4.5
10	BC	137	LEU	4.5
16	BI	52	GLY	4.5
16	BI	115	VAL	4.5
27	9	5	SER	4.5
56	CW	97	LEU	4.5
50	F	189	ILE	4.5
31	BX	44	VAL	4.5
38	CE	29	VAL	4.5
28	BU	118	PHE	4.5
7	m	24	GLN	4.4
30	BW	25	LYS	4.4
51	G	198	ARG	4.4
79	AR	29	HIS	4.4
55	K	180	GLY	4.4
49	E	92	ARG	4.4
10	p	180	ILE	4.4
45	i	120	GLU	4.4
53	I	122	GLU	4.4
49	E	160	VAL	4.4
49	E	76	MET	4.4
51	G	259	GLN	4.4
56	L	48	GLN	4.4
52	CS	102	ARG	4.4
52	CS	148	ARG	4.4
80	P0	3	GLY	4.4
35	AH	22	VAL	4.4
46	B	712	A	4.4
16	BI	146	ALA	4.4
79	AR	155	VAL	4.4
63	S	104	LEU	4.4
50	F	40	VAL	4.4
79	AR	105	VAL	4.4
38	AK	51	LEU	4.4
78	h	142	LEU	4.4
22	BO	86	GLU	4.4
73	c	82	ARG	4.4
59	O	52	LEU	4.4
27	9	47	SER	4.4
12	r	194	GLY	4.4
16	v	198	SER	4.4
79	DT	300	ALA	4.4

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	E	79	ARG	4.4
24	6	76	ALA	4.4
51	G	78	THR	4.4
56	L	119	ALA	4.4
27	9	32	SER	4.3
52	CS	149	ILE	4.3
39	CF	38	PHE	4.3
15	u	131	ALA	4.3
60	P	15	ALA	4.3
35	CB	39	ALA	4.3
47	C	99	ALA	4.3
54	J	171	LYS	4.3
56	L	137	GLY	4.3
10	p	152	VAL	4.3
30	AC	34	GLY	4.3
79	AR	58	PRO	4.3
46	B	717	G	4.3
56	L	85	VAL	4.3
80	P0	78	PRO	4.3
46	CM	1677	G	4.3
56	L	20	GLU	4.3
80	P0	87	ILE	4.3
25	7	79	GLN	4.3
16	BI	131	GLU	4.3
22	2	85	ILE	4.3
42	AO	14	LYS	4.3
62	R	7	PRO	4.3
50	F	129	GLY	4.3
79	AR	33	LEU	4.3
28	BU	46	ILE	4.3
28	AA	118	PHE	4.3
27	9	35	LEU	4.3
1	AS	2066	G	4.3
82	l1	21	THR	4.3
82	L1	217	TYR	4.3
30	BW	23	LYS	4.3
46	B	490	U	4.3
79	AR	13	LEU	4.3
40	CG	34	LYS	4.3
77	DR	54	ARG	4.3
79	DT	207	LEU	4.3
12	r	165	ILE	4.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
62	DC	11	THR	4.2
82	l1	124	LEU	4.2
16	BI	107	GLY	4.2
79	AR	181	ALA	4.2
80	p0	83	ASN	4.2
37	CD	98	ARG	4.2
63	S	69	THR	4.2
63	DD	131	ARG	4.2
35	CB	42	VAL	4.2
53	I	97	VAL	4.2
62	R	123	TYR	4.2
77	DR	35	TYR	4.2
1	AS	1263	U	4.2
52	H	154	THR	4.2
10	BC	133	VAL	4.2
23	5	66	VAL	4.2
80	p0	76	LEU	4.2
82	l1	29	LEU	4.2
78	h	144	VAL	4.2
80	P0	25	ILE	4.2
80	p0	44	ALA	4.2
50	F	207	VAL	4.2
51	G	109	PHE	4.2
35	CB	29	LYS	4.2
1	AS	1264	G	4.2
64	T	53	TYR	4.2
34	AG	95	GLY	4.2
54	CU	179	PHE	4.2
56	L	83	ILE	4.2
19	BL	168	LYS	4.2
56	CW	93	LEU	4.2
6	AY	91	PHE	4.2
79	AR	17	ASN	4.2
10	BC	97	LYS	4.2
79	AR	288	SER	4.2
36	CC	116	PHE	4.2
56	L	84	GLY	4.2
57	M	16	PHE	4.2
63	S	28	ILE	4.2
75	e	50	GLU	4.2
10	p	169	ALA	4.2
18	x	128	ARG	4.2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
51	G	54	TYR	4.2
19	BL	169	GLY	4.2
79	AR	117	ALA	4.2
79	AR	211	ALA	4.2
35	AH	16	ARG	4.2
4	j	190	LYS	4.2
79	AR	60	LYS	4.2
46	B	131	C	4.2
46	B	1676	A	4.2
59	O	123	VAL	4.2
6	l	4	ARG	4.2
1	AS	2068	U	4.1
60	DA	33	VAL	4.1
16	BI	109	ARG	4.1
4	j	250	GLN	4.1
27	9	118	LEU	4.1
39	CF	33	ALA	4.1
42	CI	5	TRP	4.1
58	N	93	TYR	4.1
71	a	66	GLY	4.1
75	e	33	LEU	4.1
78	DS	181	GLN	4.1
18	BK	57	ALA	4.1
23	BP	11	SER	4.1
82	L1	163	LEU	4.1
49	E	192	TYR	4.1
59	O	59	LEU	4.1
23	5	74	PHE	4.1
6	l	87	GLY	4.1
50	F	197	ARG	4.1
63	DD	139	LYS	4.1
5	k	265	ALA	4.1
35	CB	64	GLN	4.1
79	DT	82	LEU	4.1
16	BI	143	ARG	4.1
82	ll	148	VAL	4.1
16	BI	120	TRP	4.1
75	e	43	ASN	4.1
7	m	4	GLN	4.1
73	DN	21	VAL	4.1
5	AX	140	ASP	4.1
1	1	1760	U	4.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	B	1047	U	4.1
54	J	88	PHE	4.1
22	2	2	GLY	4.1
16	v	184	LYS	4.1
35	CB	34	HIS	4.1
51	G	219	VAL	4.1
51	G	43	PRO	4.1
28	AA	96	VAL	4.1
52	CS	70	VAL	4.1
70	DK	27	GLN	4.1
4	j	75	THR	4.1
80	p0	75	LYS	4.1
1	AS	1238	G	4.1
11	BD	190	GLU	4.1
14	t	12	ASN	4.1
18	BK	135	ARG	4.1
52	CS	156	ARG	4.1
16	BI	53	TYR	4.1
63	S	78	TYR	4.1
53	CT	234	LEU	4.1
54	J	57	PHE	4.1
14	t	4	SER	4.1
82	ll	113	SER	4.1
26	8	22	LYS	4.1
43	CJ	51	GLY	4.1
64	T	40	VAL	4.1
59	O	72	ILE	4.1
60	DA	141	TYR	4.1
78	DS	173	PHE	4.0
82	L1	15	LYS	4.0
77	DR	52	GLY	4.0
82	L1	194	LEU	4.0
16	BI	99	ARG	4.0
38	CE	84	LYS	4.0
48	CO	67	GLU	4.0
57	M	23	ALA	4.0
61	DB	84	THR	4.0
79	AR	166	VAL	4.0
10	BC	95	LEU	4.0
55	CV	185	CYS	4.0
19	y	74	LYS	4.0
30	BW	33	LYS	4.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
75	e	45	LYS	4.0
27	BT	126	ALA	4.0
51	G	182	MET	4.0
39	CF	69	LEU	4.0
49	E	111	LYS	4.0
18	x	2	VAL	4.0
35	AH	32	ALA	4.0
80	p0	47	GLY	4.0
6	AY	361	LEU	4.0
18	x	135	ARG	4.0
41	AN	52	LYS	4.0
79	AR	36	GLY	4.0
79	DT	225	ASN	4.0
64	T	124	ILE	4.0
79	AR	291	TRP	4.0
50	F	51	VAL	4.0
42	CI	6	ARG	4.0
65	U	120	ARG	4.0
16	BI	40	SER	4.0
69	Y	41	MET	4.0
29	BV	66	ASN	4.0
53	I	50	PHE	4.0
6	AY	68	THR	4.0
48	CO	55	LYS	4.0
82	L1	30	GLU	4.0
33	BZ	125	GLY	4.0
46	CM	659	U	4.0
79	AR	124	VAL	4.0
60	DA	84	ILE	4.0
30	BW	14	ARG	4.0
50	F	208	LYS	4.0
79	AR	94	ASP	4.0
82	l1	5	THR	4.0
58	CY	61	ALA	4.0
63	DD	27	LEU	4.0
50	F	171	ILE	4.0
67	W	115	VAL	4.0
26	BS	38	LEU	4.0
59	O	127	GLY	4.0
63	S	88	LEU	4.0
35	CB	10	ARG	4.0
36	AI	91	LYS	4.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	B	1038	G	4.0
63	S	82	GLN	4.0
50	F	198	PHE	4.0
51	CR	7	LYS	4.0
82	L1	10	ARG	4.0
35	CB	28	GLY	3.9
79	AR	7	LEU	3.9
36	CC	74	LYS	3.9
82	L1	43	PRO	3.9
62	R	10	ARG	3.9
66	V	55	TYR	3.9
49	E	58	VAL	3.9
7	m	271	LYS	3.9
36	AI	84[A]	LYS	3.9
38	AK	84	LYS	3.9
23	BP	15	PHE	3.9
50	F	202	ALA	3.9
52	CS	76	LYS	3.9
56	L	141	VAL	3.9
63	S	12	LYS	3.9
79	DT	201	LEU	3.9
63	S	84	ILE	3.9
78	h	157	GLU	3.9
16	BI	135	VAL	3.9
54	CU	89	LEU	3.9
62	R	80	LEU	3.9
39	AL	42	LYS	3.9
48	D	90	GLU	3.9
10	p	165	VAL	3.9
16	BI	159	ARG	3.9
35	CB	22	VAL	3.9
19	BL	177	GLY	3.9
18	BK	66	SER	3.9
4	j	154	ALA	3.9
29	AB	47	LYS	3.9
36	CC	49	LYS	3.9
16	BI	119	TYR	3.9
49	E	90	ARG	3.9
40	CG	33	ASN	3.9
79	AR	280	THR	3.9
82	L1	111	ILE	3.9
51	CR	214	LEU	3.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	9	46	LYS	3.9
26	BS	88	ILE	3.9
66	DG	50	ALA	3.9
82	L1	33	GLU	3.9
56	L	161	ASN	3.9
71	a	133	ASN	3.9
79	DT	70	GLN	3.9
50	F	104	GLU	3.9
47	CN	167	LYS	3.9
54	CU	182	PRO	3.9
59	O	58	GLN	3.9
45	i	102	LYS	3.9
56	L	37	LYS	3.9
79	DT	209	ALA	3.9
56	CW	128	LEU	3.9
63	DD	18	VAL	3.9
80	P0	52	LEU	3.9
52	H	105	GLY	3.9
29	AB	65	GLN	3.9
79	AR	300	ALA	3.9
29	AB	15	VAL	3.8
46	B	133	U	3.8
18	x	183	THR	3.8
66	V	66	TYR	3.8
26	8	49	LYS	3.8
50	F	159	ILE	3.8
10	BC	155	ALA	3.8
82	L1	29	LEU	3.8
6	l	17	GLY	3.8
69	Y	79	PHE	3.8
51	CR	18	TRP	3.8
73	c	2	PRO	3.8
56	L	177	GLN	3.8
56	CW	3	ARG	3.8
22	2	91	LEU	3.8
48	CO	101	HIS	3.8
54	CU	87	VAL	3.8
58	N	40	LEU	3.8
79	DT	279	ALA	3.8
62	DC	50	ASP	3.8
79	AR	78	GLY	3.8
80	P0	85	GLY	3.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	E	205	THR	3.8
52	H	67	PRO	3.8
43	CJ	72	LEU	3.8
48	CO	217	LEU	3.8
79	DT	251	ALA	3.8
16	BI	30	TYR	3.8
10	BC	131	VAL	3.8
50	F	60	LEU	3.8
54	J	55	ALA	3.8
78	DS	178	LYS	3.8
56	CW	12	TYR	3.8
79	AR	299	PHE	3.8
52	H	66	ASN	3.8
1	1	2465	U	3.8
4	AW	190	LYS	3.8
6	AY	90	ALA	3.8
10	BC	204	VAL	3.8
52	CS	106	LYS	3.8
82	L1	185	MET	3.8
16	BI	67	ARG	3.8
60	DA	106	ARG	3.8
4	AW	73	GLU	3.8
14	BG	95	ILE	3.8
23	BP	71	ASN	3.8
29	AB	125	VAL	3.8
64	DE	66	VAL	3.8
5	k	253	GLY	3.8
6	AY	85	ARG	3.8
39	CF	2	ALA	3.8
53	CT	163	THR	3.8
50	F	185	ILE	3.8
23	BP	52	ASN	3.8
13	s	125	MET	3.8
10	BC	200	ALA	3.8
18	BK	128	ARG	3.8
53	CT	179	VAL	3.8
72	DM	37	GLN	3.8
62	DC	59	LYS	3.8
22	BO	75	ILE	3.8
46	CM	710	U	3.8
49	E	149	LEU	3.8
54	J	45	ILE	3.8

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
63	S	47	VAL	3.8
56	CW	18	PRO	3.8
53	CT	169	TYR	3.8
56	L	128	LEU	3.8
56	CW	123	HIS	3.8
74	DO	19	HIS	3.8
82	ll	34	LEU	3.8
19	y	186	VAL	3.8
51	G	47	PHE	3.8
26	BS	89	LYS	3.8
38	CE	42	ALA	3.8
27	9	31	LEU	3.8
49	E	108	LEU	3.8
60	P	149	LEU	3.8
36	AI	1	MET	3.7
69	Y	127	GLY	3.7
10	BC	98	TYR	3.7
35	CB	18	ASN	3.7
59	O	97	LEU	3.7
5	k	5	LYS	3.7
57	M	67	THR	3.7
16	BI	82	GLY	3.7
36	AI	3	GLY	3.7
63	DD	90	ALA	3.7
79	AR	103	ARG	3.7
56	L	18	PRO	3.7
79	DT	244	PRO	3.7
42	AO	7	LYS	3.7
71	a	34	ASN	3.7
64	T	71	PHE	3.7
4	AW	247	ARG	3.7
29	BV	21	ARG	3.7
40	CG	9	THR	3.7
52	CS	71	SER	3.7
79	AR	41	THR	3.7
7	AZ	109	ALA	3.7
63	DD	23	ALA	3.7
35	CB	20	ILE	3.7
38	CE	43	LYS	3.7
50	F	188	LYS	3.7
56	L	12	TYR	3.7
57	M	64	TYR	3.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
73	c	69	ASN	3.7
75	e	48	VAL	3.7
19	y	154	GLY	3.7
82	ll	14	HIS	3.7
10	p	163	LEU	3.7
33	AF	78	LYS	3.7
59	CZ	126	TRP	3.7
49	E	163	ARG	3.7
52	H	155	VAL	3.7
56	L	120	ARG	3.7
26	BS	122	ALA	3.7
79	AR	200	THR	3.7
70	Z	27	GLN	3.7
6	AY	112	VAL	3.7
23	5	15	PHE	3.7
26	BS	48	ARG	3.7
48	CO	59	ASP	3.7
62	R	109	PRO	3.7
75	e	67	ARG	3.7
30	AC	25	LYS	3.7
50	F	39	GLU	3.7
51	CR	84	ALA	3.7
16	BI	61	ILE	3.7
57	M	30	PRO	3.7
64	T	22	PRO	3.7
82	L1	137	PRO	3.7
12	r	215	ASN	3.7
46	B	713	U	3.7
51	G	195	ILE	3.7
79	AR	190	ILE	3.7
6	AY	65	SER	3.7
16	v	66	VAL	3.7
73	c	18	VAL	3.7
6	AY	105	LYS	3.7
6	AY	67	GLY	3.7
19	y	95	GLU	3.7
70	Z	82	LYS	3.7
10	BC	163	LEU	3.7
14	t	10	LEU	3.7
16	BI	144	ARG	3.7
69	Y	104	LEU	3.7
14	t	17	HIS	3.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	BI	95	GLN	3.7
63	DD	22	LYS	3.7
69	Y	128	PHE	3.7
79	DT	275	PHE	3.7
6	AY	353	SER	3.7
54	J	71	THR	3.7
64	T	8	THR	3.7
24	6	34	LEU	3.7
32	BY	84	ALA	3.7
18	BK	89	ASN	3.7
52	H	65	ARG	3.7
38	CE	8	LEU	3.7
38	CE	10	LYS	3.7
1	AS	2453	G	3.7
40	CG	46	ARG	3.7
59	O	83	GLU	3.7
50	F	162	GLY	3.7
61	DB	108	GLY	3.7
54	CU	37	LEU	3.7
57	M	68	LEU	3.7
63	S	75	SER	3.7
82	l1	79	SER	3.7
59	O	91	VAL	3.7
16	BI	9	GLU	3.7
33	BZ	27	HIS	3.7
39	AL	78	LEU	3.6
49	E	206	LEU	3.6
66	V	69	LYS	3.6
79	DT	230	THR	3.6
37	CD	47	ALA	3.6
1	AS	2480	A	3.6
39	CF	55	VAL	3.6
29	AB	66	ASN	3.6
33	AF	52	PRO	3.6
82	L1	49	PHE	3.6
10	p	62	GLN	3.6
30	BW	34	GLY	3.6
49	E	109	GLY	3.6
10	p	170	LEU	3.6
16	BI	181	ASN	3.6
51	CR	239	LEU	3.6
64	T	91	LEU	3.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
19	y	180	ARG	3.6
18	BK	58	ILE	3.6
60	DA	151	ALA	3.6
42	AO	20	VAL	3.6
50	F	187	VAL	3.6
82	L1	4	ILE	3.6
48	CO	62	LYS	3.6
53	CT	235	LYS	3.6
51	CR	44	LEU	3.6
37	CD	97	ARG	3.6
79	AR	38	ARG	3.6
51	G	226	PHE	3.6
7	AZ	82	GLU	3.6
36	CC	78	LYS	3.6
51	G	210	ILE	3.6
53	CT	226	ILE	3.6
80	p0	78	PRO	3.6
50	F	156	GLY	3.6
64	T	46	LEU	3.6
80	p0	64	ARG	3.6
10	p	200	ALA	3.6
28	BU	52	LYS	3.6
29	AB	22	ILE	3.6
59	CZ	104	CYS	3.6
63	S	79	ALA	3.6
63	DD	80	ILE	3.6
69	Y	84	ASN	3.6
82	l1	216	ILE	3.6
63	S	98	GLU	3.6
10	BC	94	LEU	3.6
16	BI	15	GLN	3.6
47	C	177	LEU	3.6
55	CV	201	ARG	3.6
79	AR	61	SER	3.6
54	J	101	LYS	3.6
50	F	135	VAL	3.6
82	L1	13	VAL	3.6
16	BI	137	PRO	3.6
59	O	120	CYS	3.6
26	BS	60	HIS	3.6
54	J	21	PHE	3.6
58	CY	60	PHE	3.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	G	40	GLU	3.6
27	BT	31	LEU	3.6
29	BV	20	GLY	3.6
35	CB	13	TYR	3.6
51	G	82	TYR	3.6
52	H	61	TYR	3.6
16	BI	98	LEU	3.6
42	CI	14	LYS	3.6
29	AB	61	PHE	3.6
10	p	154	ILE	3.6
16	BI	37	HIS	3.6
42	CI	10	VAL	3.6
51	G	90	ILE	3.6
69	Y	27	ILE	3.6
76	f	12	ARG	3.6
16	v	6	TYR	3.6
29	AB	48	TYR	3.6
78	h	171	GLY	3.6
9	o	8	GLU	3.6
42	AO	10	VAL	3.6
49	E	178	VAL	3.6
54	J	178	VAL	3.6
62	DC	61	ARG	3.6
21	0	116	ALA	3.6
32	AE	26	LYS	3.6
46	B	491	U	3.6
49	E	235	LEU	3.6
51	G	101	LEU	3.6
56	L	59	LEU	3.6
62	R	72	ARG	3.6
40	CG	32	ASP	3.6
49	E	93	MET	3.6
56	L	45	ILE	3.6
79	AR	161	ASP	3.6
80	p0	104	VAL	3.6
16	BI	139	HIS	3.6
58	N	97	TYR	3.6
82	ll	202	GLY	3.6
1	AS	1557	U	3.6
10	BC	130	PRO	3.6
49	E	168	PRO	3.6
6	l	143	VAL	3.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	BS	95	ILE	3.6
52	CS	53	VAL	3.6
64	T	15	VAL	3.6
6	AY	220	LEU	3.6
58	N	5	LEU	3.6
79	AR	210	SER	3.6
80	p0	19	LEU	3.6
23	BP	74	PHE	3.5
40	AM	21	ARG	3.5
50	CQ	209	ILE	3.5
7	m	150	LEU	3.5
48	CO	156	ALA	3.5
63	S	83	ALA	3.5
56	L	106	GLU	3.5
30	AC	11	ASN	3.5
54	J	125	LEU	3.5
57	M	19	GLY	3.5
51	CR	8	HIS	3.5
56	L	147	THR	3.5
79	AR	99	GLU	3.5
6	AY	110	TRP	3.5
63	S	4	GLN	3.5
64	DE	74	GLN	3.5
80	p0	41	ILE	3.5
52	CS	84	LYS	3.5
14	BG	17	HIS	3.5
46	CM	674	C	3.5
35	AH	23	VAL	3.5
16	BI	74	PRO	3.5
42	AO	17	ARG	3.5
8	n	75	LEU	3.5
30	BW	22	LYS	3.5
29	AB	21	ARG	3.5
27	BT	46	LYS	3.5
29	AB	38	GLN	3.5
10	BC	254	ALA	3.5
10	BC	126	VAL	3.5
35	AH	31	VAL	3.5
40	CG	8	ARG	3.5
45	CL	83	HIS	3.5
49	E	180	LYS	3.5
50	F	190	MET	3.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	J	129	THR	3.5
35	AH	48	GLY	3.5
16	BI	94	TYR	3.5
24	6	88	ARG	3.5
16	BI	96	LYS	3.5
24	6	137	VAL	3.5
33	BZ	78	LYS	3.5
53	CT	217	HIS	3.5
54	J	175	LYS	3.5
56	L	13	SER	3.5
51	G	84	ALA	3.5
79	AR	15	GLY	3.5
6	l	91	PHE	3.5
44	CK	28	LYS	3.5
49	E	189	GLU	3.5
79	AR	14	GLU	3.5
27	9	8	VAL	3.5
64	T	9	VAL	3.5
53	CT	77	LEU	3.5
79	DT	218	ILE	3.5
10	BC	186	ARG	3.5
16	BI	39	ALA	3.5
52	H	74	ALA	3.5
62	R	34	THR	3.5
27	BT	127	GLU	3.5
80	p0	77	LEU	3.5
10	BC	202	THR	3.5
6	l	146	VAL	3.5
22	BO	67	VAL	3.5
69	Y	126	LEU	3.5
79	DT	33	LEU	3.5
76	f	54	LYS	3.5
79	AR	59	LYS	3.5
1	AS	1760	U	3.5
6	l	229	ALA	3.5
48	D	156	ALA	3.5
58	N	61	ALA	3.5
16	v	104	GLU	3.5
28	AA	31	GLU	3.5
5	k	264	VAL	3.5
12	r	190	VAL	3.5
11	q	75	ILE	3.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
45	i	115	LEU	3.5
49	CP	90	ARG	3.5
78	DS	190	LEU	3.5
79	AR	297	ASN	3.4
58	N	59	PRO	3.4
25	BR	27	LYS	3.4
29	AB	63	LYS	3.4
60	DA	42	ARG	3.4
79	AR	51	GLU	3.4
16	BI	26	ARG	3.4
56	L	107	ARG	3.4
63	S	102	ASN	3.4
33	AF	97	ILE	3.4
35	CB	36	LYS	3.4
49	E	94	LYS	3.4
1	1	1346	U	3.4
46	B	493	U	3.4
50	CQ	219	ILE	3.4
61	Q	88	THR	3.4
64	T	50	ILE	3.4
78	DS	128	THR	3.4
22	2	81	GLY	3.4
10	BC	162	GLU	3.4
73	c	99	GLN	3.4
22	BO	82	ASN	3.4
24	BQ	98	ASN	3.4
75	e	15	VAL	3.4
71	a	2	SER	3.4
35	CB	33	GLN	3.4
49	CP	89	GLN	3.4
16	BI	92	LEU	3.4
37	CD	49	LEU	3.4
48	CO	120	LEU	3.4
82	L1	32	VAL	3.4
16	BI	90	ASN	3.4
51	G	245	ILE	3.4
82	L1	70	ASP	3.4
47	CN	127	ARG	3.4
81	12	115	LYS	3.4
14	BG	22	VAL	3.4
60	P	84	ILE	3.4
65	DF	22	ILE	3.4

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	BI	175	ASN	3.4
39	AL	34	ASN	3.4
51	G	256	ARG	3.4
80	P0	7	LYS	3.4
69	DJ	2	THR	3.4
79	DT	202	SER	3.4
82	L1	136	THR	3.4
27	BT	118	LEU	3.4
46	B	778	U	3.4
50	F	22	LEU	3.4
51	G	9	LEU	3.4
78	h	126	VAL	3.4
4	j	87	PHE	3.4
27	9	106	ILE	3.4
35	AH	21	LYS	3.4
47	C	13	ASP	3.4
71	DL	132	ARG	3.4
36	AI	18	GLU	3.4
52	H	133	VAL	3.4
54	J	2	SER	3.4
79	AR	165	THR	3.4
79	DT	105	VAL	3.4
79	DT	238	HIS	3.4
4	j	104	LEU	3.4
29	AB	16	SER	3.4
31	BX	43	LEU	3.4
59	O	115	VAL	3.4
35	CB	76	TYR	3.4
38	CE	57	ARG	3.4
51	CR	184	THR	3.4
63	DD	14	THR	3.4
66	DG	92	LYS	3.4
49	E	172	GLY	3.4
7	AZ	77	ALA	3.4
16	BI	105	ARG	3.4
22	2	44	ALA	3.4
54	J	54	LEU	3.4
58	N	25	ALA	3.4
58	CY	64	VAL	3.4
82	ll	16	LEU	3.4
4	AW	75	THR	3.4
6	l	353	SER	3.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
10	p	92	PHE	3.4
45	CL	79	THR	3.4
62	DC	27	GLU	3.4
79	AR	65	HIS	3.4
46	CM	709	U	3.4
5	k	233	TRP	3.4
51	G	44	LEU	3.4
63	DD	43	LEU	3.4
80	p0	101	VAL	3.4
82	L1	39	LYS	3.4
56	L	110	GLN	3.4
79	AR	243	SER	3.4
59	CZ	83	GLU	3.4
79	AR	16	HIS	3.4
30	AC	33	LYS	3.4
48	CO	64	ARG	3.4
54	J	73	LEU	3.4
62	DC	10	ARG	3.4
82	l1	3	LYS	3.4
81	12	128	VAL	3.4
10	BC	180	ILE	3.4
55	K	158	ILE	3.4
66	DG	36	ILE	3.4
6	AY	64	GLU	3.4
79	AR	56	GLY	3.4
82	L1	175	GLU	3.4
10	BC	111	THR	3.4
29	AB	24	LYS	3.4
39	CF	3	ARG	3.4
63	DD	65	ARG	3.4
49	E	220	LEU	3.3
53	CT	190	LEU	3.3
56	L	96	VAL	3.3
82	L1	155	ILE	3.3
27	BT	122	LYS	3.3
30	AC	22	LYS	3.3
38	CE	11	ARG	3.3
58	N	22	ASN	3.3
71	a	68	LYS	3.3
64	T	16	LEU	3.3
82	L1	23	THR	3.3
6	l	90	ALA	3.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
6	l	157	PHE	3.3
33	BZ	18	PHE	3.3
16	BI	81	TYR	3.3
50	F	5	ILE	3.3
54	CU	176	GLN	3.3
79	DT	249	LEU	3.3
59	CZ	118	ALA	3.3
52	H	37	GLN	3.3
26	BS	34	LEU	3.3
32	AE	72	LEU	3.3
62	DC	116	LEU	3.3
53	CT	68	MET	3.3
58	N	117	VAL	3.3
26	BS	84	PHE	3.3
64	DE	116	LYS	3.3
67	W	84	ARG	3.3
10	BC	56	TYR	3.3
38	CE	18	LEU	3.3
18	x	126	ARG	3.3
22	BO	77	ASN	3.3
27	BT	125	LYS	3.3
49	E	174	VAL	3.3
51	CR	218	PHE	3.3
78	DS	158	ARG	3.3
5	AX	139	THR	3.3
80	p0	24	SER	3.3
30	BW	24	PRO	3.3
64	T	101	GLU	3.3
29	BV	46	ASP	3.3
46	B	706	C	3.3
48	CO	24	PHE	3.3
74	DO	29	ARG	3.3
50	F	139	ILE	3.3
64	DE	124	ILE	3.3
69	Y	75	ILE	3.3
79	DT	211	ALA	3.3
16	v	62	TYR	3.3
24	6	35	TYR	3.3
63	S	48	TYR	3.3
6	AY	226	VAL	3.3
42	AO	1	MET	3.3
82	L1	173	ASP	3.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	AW	41	ILE	3.3
38	CE	12	HIS	3.3
56	CW	142	ASN	3.3
64	DE	102	ILE	3.3
79	AR	238	HIS	3.3
18	x	7	THR	3.3
19	y	138	LEU	3.3
82	L1	124	LEU	3.3
61	DB	23	VAL	3.3
27	BT	26	GLU	3.3
36	CC	118	ILE	3.3
58	N	4	GLU	3.3
6	l	58	GLY	3.3
1	AS	2442	U	3.3
26	8	92	LYS	3.3
26	BS	96	LYS	3.3
36	AI	32	LYS	3.3
7	AZ	113	LEU	3.3
16	BI	187	ARG	3.3
44	CK	18	TYR	3.3
54	CU	88	PHE	3.3
77	g	45	VAL	3.3
29	AB	17	ALA	3.3
55	K	43	ILE	3.3
59	CZ	72	ILE	3.3
42	CI	23	ARG	3.3
79	AR	241	ALA	3.3
39	AL	38	PHE	3.3
56	L	144	PRO	3.3
73	c	29	CYS	3.3
48	CO	46	THR	3.3
79	AR	22	SER	3.3
80	P0	102	SER	3.3
16	v	128	LYS	3.3
51	CR	241	LYS	3.3
58	N	70	ILE	3.3
4	AW	2	GLY	3.3
22	2	30	TYR	3.3
1	AS	1247	A	3.3
77	DR	49	LEU	3.3
10	p	140	VAL	3.3
25	BR	79	GLN	3.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
58	N	3	THR	3.3
78	DS	153	GLU	3.3
20	z	63	ALA	3.3
63	DD	19	ALA	3.3
31	BX	16	LEU	3.3
13	s	102	PHE	3.3
69	Y	81	VAL	3.3
36	CC	114	ARG	3.2
52	H	158	GLN	3.2
80	P0	108	PRO	3.2
53	CT	100	CYS	3.2
80	p0	65	GLY	3.2
59	O	109	ASP	3.2
13	s	129	VAL	3.2
27	9	3	LYS	3.2
52	CS	157	ARG	3.2
70	Z	122	PHE	3.2
10	BC	205	ASN	3.2
82	L1	183	ILE	3.2
1	1	2480	A	3.2
4	j	24	LYS	3.2
62	DC	58	LYS	3.2
82	ll	15	LYS	3.2
40	AM	46	ARG	3.2
53	CT	230	ARG	3.2
78	h	161	ARG	3.2
10	BC	192	HIS	3.2
46	CM	1699	G	3.2
79	AR	278	GLY	3.2
16	BI	93	LYS	3.2
47	CN	184	LEU	3.2
51	G	38	LEU	3.2
54	J	147	LYS	3.2
36	CC	75	TYR	3.2
26	8	32	PHE	3.2
44	CK	24	ARG	3.2
56	L	44	ARG	3.2
56	L	88	GLU	3.2
18	x	136	ILE	3.2
19	y	185	LYS	3.2
28	AA	5	ILE	3.2
55	K	183	GLY	3.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
59	CZ	90	LYS	3.2
63	S	35	ILE	3.2
10	BC	149	ALA	3.2
24	BQ	15	LEU	3.2
64	DE	22	PRO	3.2
67	W	48	ASN	3.2
7	AZ	105	VAL	3.2
10	p	166	PHE	3.2
82	L1	208	SER	3.2
20	BM	58	HIS	3.2
33	BZ	53	GLN	3.2
49	E	78	ILE	3.2
54	CU	134	LYS	3.2
67	DH	107	ILE	3.2
16	BI	41	ARG	3.2
18	x	57	ALA	3.2
29	BV	61	PHE	3.2
58	N	42	PHE	3.2
49	E	80	SER	3.2
35	CB	21	LYS	3.2
62	DC	23	LYS	3.2
63	DD	36	THR	3.2
4	AW	184	ARG	3.2
29	AB	25	HIS	3.2
59	CZ	45	LEU	3.2
16	BI	3	ALA	3.2
39	AL	43	PHE	3.2
80	P0	73	PHE	3.2
79	DT	258	LYS	3.2
82	l1	25	LYS	3.2
4	j	180	LEU	3.2
22	BO	81	GLY	3.2
47	C	111	ILE	3.2
63	DD	50	PRO	3.2
73	DN	35	ALA	3.2
79	DT	169	ALA	3.2
4	AW	234	LYS	3.2
35	CB	19	LYS	3.2
41	AN	12	LYS	3.2
63	DD	32	GLY	3.2
51	CR	62	LYS	3.2
53	CT	229	LYS	3.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
62	R	108	LYS	3.2
35	AH	59	PRO	3.2
30	BW	32	LEU	3.2
38	AK	67	LEU	3.2
66	V	5	SER	3.2
10	BC	121	LYS	3.2
18	x	70	THR	3.2
38	AK	59	THR	3.2
51	G	184	THR	3.2
16	BI	185	ALA	3.2
35	AH	33	GLN	3.2
60	DA	62	GLN	3.2
6	AY	74	ARG	3.2
10	p	198	VAL	3.2
51	G	225	VAL	3.2
55	CV	102	VAL	3.2
82	ll	19	TYR	3.2
79	AR	45	TRP	3.2
36	CC	84[A]	LYS	3.2
43	AP	40	LYS	3.2
4	AW	54	ARG	3.2
24	6	36	VAL	3.2
33	AF	11	VAL	3.2
36	AI	10	ARG	3.2
36	CC	105	ARG	3.2
14	BG	119	TYR	3.2
69	Y	101	TYR	3.2
79	AR	5	GLU	3.2
82	L1	176	GLU	3.2
62	R	73	PRO	3.2
46	B	1356	U	3.2
10	p	215	LEU	3.2
18	x	67	ILE	3.2
47	C	173	ILE	3.2
82	L1	206	ILE	3.2
38	AK	74	PHE	3.2
56	L	104	PHE	3.2
64	T	3	ARG	3.2
79	AR	242	PHE	3.2
4	j	129	THR	3.2
52	CS	33	VAL	3.2
54	CU	146	GLN	3.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
22	2	18	ASP	3.2
32	BY	80	ASP	3.2
45	CL	75	PRO	3.1
4	AW	236	GLY	3.1
16	v	142	ILE	3.1
18	BK	67	ILE	3.1
36	AI	92	LEU	3.1
48	CO	60	GLY	3.1
79	AR	92	LEU	3.1
60	DA	36	GLN	3.1
79	AR	113	SER	3.1
79	AR	202	SER	3.1
58	N	32	LYS	3.1
81	12	118	HIS	3.1
82	11	107	TYR	3.1
44	AQ	89	LEU	3.1
51	CR	228	ILE	3.1
63	DD	122	ARG	3.1
1	1	2068	U	3.1
82	L1	157	PHE	3.1
22	BO	78	LYS	3.1
25	BR	41	GLN	3.1
26	BS	109	TYR	3.1
64	DE	72	LYS	3.1
66	V	92	LYS	3.1
11	BD	10	LEU	3.1
14	BG	98	ASP	3.1
56	L	6	ARG	3.1
56	L	58	ASP	3.1
70	DK	104	LEU	3.1
79	DT	222	LEU	3.1
4	AW	48	ILE	3.1
6	AY	87	GLY	3.1
55	K	65	PHE	3.1
19	y	159	LYS	3.1
29	BV	144	VAL	3.1
54	CU	184	GLU	3.1
1	1	2476	C	3.1
16	BI	87	GLN	3.1
51	G	205	PHE	3.1
51	CR	240	PRO	3.1
77	DR	6	GLY	3.1

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
62	R	83	MET	3.1
63	DD	13	LYS	3.1
16	BI	129	TYR	3.1
42	CI	12	ARG	3.1
49	CP	95	ALA	3.1
19	y	166	LEU	3.1
49	E	56	LEU	3.1
16	BI	184	LYS	3.1
27	9	78	PHE	3.1
36	AI	14	LYS	3.1
44	AQ	58	LYS	3.1
56	L	65	LYS	3.1
61	DB	124	LYS	3.1
78	DS	185	LYS	3.1
79	AR	174	THR	3.1
22	2	79	VAL	3.1
50	F	75	VAL	3.1
53	CT	232	GLU	3.1
56	CW	62	ARG	3.1
64	T	5	ARG	3.1
79	AR	169	ALA	3.1
55	CV	20	GLN	3.1
82	ll	119	GLN	3.1
1	AS	1024	U	3.1
4	AW	10	LYS	3.1
16	BI	5	LYS	3.1
46	B	1359	U	3.1
51	CR	106	LYS	3.1
82	ll	111	ILE	3.1
4	j	184	ARG	3.1
6	l	160	VAL	3.1
50	F	32	GLU	3.1
52	H	68	VAL	3.1
58	N	23	PRO	3.1
6	AY	71	ALA	3.1
68	X	54	ALA	3.1
50	F	33	GLN	3.1
56	CW	19	TYR	3.1
57	M	17	GLN	3.1
75	e	16	LEU	3.1
50	F	26	PHE	3.1
51	CR	99	PHE	3.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
79	DT	299	PHE	3.1
12	r	38	ARG	3.1
14	t	6	ASN	3.1
19	BL	180	ARG	3.1
37	CD	67	ARG	3.1
64	T	67	ARG	3.1
54	CU	46	ASP	3.1
77	g	47	VAL	3.1
4	AW	59	ALA	3.1
12	r	195	ALA	3.1
46	CM	656	C	3.1
47	CN	87	LEU	3.1
49	E	128	LYS	3.1
82	L1	38	LEU	3.1
62	R	119	PHE	3.1
66	DG	120	GLY	3.1
16	BI	114	ARG	3.1
1	AS	2067	U	3.1
30	BW	11	ASN	3.1
56	CW	113	VAL	3.1
79	DT	67	HIS	3.1
6	l	245	LEU	3.1
16	BI	72	LYS	3.1
51	G	123	LEU	3.1
56	L	80	LEU	3.1
77	g	39	LEU	3.1
4	j	135	ILE	3.1
7	m	127	GLY	3.1
7	AZ	142	PHE	3.1
47	CN	173	ILE	3.1
52	H	52	GLU	3.1
73	c	86	VAL	3.1
19	BL	185	LYS	3.1
25	7	97	LYS	3.1
30	AC	61	LYS	3.1
7	AZ	62	ALA	3.1
4	j	147	ARG	3.1
29	AB	52	TYR	3.1
39	CF	53	THR	3.1
42	AO	12	ARG	3.1
18	x	80	LYS	3.1
54	CU	56	VAL	3.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
28	BU	2	ALA	3.1
56	L	28	LEU	3.1
66	DG	132	LEU	3.1
79	DT	298	LEU	3.1
66	V	123	ARG	3.1
82	ll	26	ARG	3.1
6	l	107	TRP	3.1
6	AY	82	GLY	3.1
7	m	117	GLU	3.1
10	p	113	GLU	3.1
62	R	31	GLU	3.1
77	DR	56	MET	3.1
26	BS	57	LEU	3.1
35	CB	41	ARG	3.1
36	CC	48	ARG	3.1
64	DE	16	LEU	3.1
79	AR	222	LEU	3.1
14	t	11	ASN	3.0
47	C	110	TYR	3.0
51	CR	86	PHE	3.0
14	t	46	ILE	3.0
23	5	54	ILE	3.0
57	M	25	LYS	3.0
71	DL	53	ASP	3.0
3	AU	158	U	3.0
16	BI	104	GLU	3.0
29	BV	38	GLN	3.0
55	CV	97	THR	3.0
16	v	24	ARG	3.0
54	CU	24	LEU	3.0
77	g	56	MET	3.0
49	E	95	ALA	3.0
4	j	41	ILE	3.0
6	AY	79	GLY	3.0
76	DQ	14	PHE	3.0
13	s	106	ILE	3.0
37	CD	60	ILE	3.0
56	L	156	ILE	3.0
82	L1	3	LYS	3.0
80	P0	83	ASN	3.0
10	p	202	THR	3.0
26	8	30	THR	3.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
80	P0	51	VAL	3.0
6	l	219	ALA	3.0
6	AY	320	LYS	3.0
49	E	209	ALA	3.0
6	AY	80	GLY	3.0
7	AZ	125	VAL	3.0
4	j	58	LEU	3.0
36	AI	88	LEU	3.0
57	M	15	LEU	3.0
16	v	170	LYS	3.0
82	L1	156	LYS	3.0
6	AY	89	ALA	3.0
7	AZ	80	ALA	3.0
58	CY	13	PHE	3.0
79	AR	233	ALA	3.0
52	CS	62	ILE	3.0
39	AL	55	VAL	3.0
56	L	14	VAL	3.0
64	T	122	VAL	3.0
74	DO	18	GLN	3.0
8	n	65	SER	3.0
10	p	66	LEU	3.0
22	2	31	LEU	3.0
51	G	48	LEU	3.0
60	DA	72	LEU	3.0
29	AB	53	PHE	3.0
5	k	330	GLY	3.0
82	L1	117	ILE	3.0
6	AY	143	VAL	3.0
22	2	72	VAL	3.0
56	CW	14	VAL	3.0
28	BU	134	LEU	3.0
52	CS	97	LEU	3.0
61	DB	132	LEU	3.0
77	g	23	LYS	3.0
38	CE	20	ASN	3.0
6	AY	52	ALA	3.0
6	AY	83	THR	3.0
7	m	273	ARG	3.0
10	BC	197	ALA	3.0
7	m	298	GLU	3.0
16	BI	70	GLY	3.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
28	BU	117	ALA	3.0
35	AH	50	ALA	3.0
48	D	63	GLY	3.0
67	W	98	THR	3.0
51	CR	210	ILE	3.0
33	AF	118	VAL	3.0
62	R	35	LYS	3.0
10	p	153	LEU	3.0
48	D	157	GLN	3.0
59	CZ	41	LEU	3.0
79	DT	180	LEU	3.0
16	v	100	SER	3.0
47	C	127	ARG	3.0
76	DQ	43	PHE	3.0
82	L1	51	GLY	3.0
4	j	168	VAL	3.0
46	B	1698	U	3.0
64	DE	46	LEU	3.0
16	BI	65	ARG	3.0
74	DO	40	CYS	3.0
56	CW	21	SER	3.0
56	CW	140	ILE	3.0
62	R	92	SER	3.0
80	p0	2	GLY	3.0
80	p0	91	GLY	3.0
13	s	21	ILE	3.0
60	DA	98	VAL	3.0
79	DT	6	VAL	3.0
71	a	28	LEU	3.0
82	L1	204	LEU	3.0
46	CM	491	U	3.0
53	I	27	PHE	3.0
82	l1	198	TRP	3.0
1	AS	1239	G	3.0
6	l	89	ALA	3.0
12	BE	114	GLY	3.0
61	DB	10	GLY	3.0
78	h	153	GLU	3.0
11	q	149	ASN	3.0
82	L1	216	ILE	3.0
19	y	3	ARG	3.0
42	CI	21	ARG	3.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
50	F	6	LEU	3.0
56	CW	28	LEU	3.0
59	O	34	THR	3.0
59	O	106	LEU	3.0
6	AY	59	HIS	3.0
4	j	92	LYS	3.0
44	AQ	33	GLN	3.0
50	F	126	PHE	3.0
79	AR	192	HIS	3.0
67	W	87	LYS	3.0
16	BI	103	GLU	3.0
79	DT	232	GLU	3.0
16	BI	127	TYR	3.0
16	BI	174	ILE	3.0
23	5	112	ALA	3.0
40	CG	51	ILE	3.0
79	DT	76	ALA	3.0
28	BU	75	VAL	3.0
6	AY	259	LEU	3.0
74	DO	30	SER	3.0
16	BI	77	LYS	3.0
39	CF	40	GLN	3.0
45	i	69	PHE	3.0
72	DM	38	HIS	3.0
79	DT	59	LYS	3.0
10	p	55	GLU	3.0
46	CM	74	U	3.0
19	y	174	ARG	3.0
51	CR	38	LEU	3.0
1	AS	2186	A	3.0
7	m	220	LYS	3.0
10	p	134	LYS	3.0
7	AZ	7	PHE	3.0
22	2	77	ASN	3.0
35	CB	40	SER	3.0
46	B	1694	A	3.0
52	H	43	PHE	3.0
44	CK	11	THR	3.0
52	CS	150	GLY	2.9
54	J	130	GLU	3.0
73	DN	20	PRO	3.0
19	y	170	ARG	2.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	8	63	ILE	2.9
54	J	131	ILE	2.9
1	AS	601	U	2.9
7	m	171	LEU	2.9
18	x	113	VAL	2.9
46	CM	1047	U	2.9
71	DL	27	VAL	2.9
58	N	24	LYS	2.9
63	DD	105	LYS	2.9
76	DQ	54	LYS	2.9
77	g	35	TYR	2.9
14	BG	12	ASN	2.9
17	w	2	SER	2.9
71	DL	133	ASN	2.9
6	l	59	HIS	2.9
10	BC	113	GLU	2.9
10	p	199	ALA	2.9
26	BS	124	ILE	2.9
55	K	175	ILE	2.9
56	L	15	PRO	2.9
58	CY	49	ILE	2.9
29	BV	52	TYR	2.9
51	CR	192	VAL	2.9
52	CS	51	VAL	2.9
54	CU	40	LYS	2.9
57	M	24	LYS	2.9
59	CZ	77	ALA	2.9
82	ll	99	LEU	2.9
27	BT	44	ASN	2.9
66	V	124	ILE	2.9
1	1	1022	A	2.9
27	BT	30	LEU	2.9
35	CB	50	ALA	2.9
45	i	127	ALA	2.9
60	DA	88	LEU	2.9
65	DF	58	ALA	2.9
6	l	74	ARG	2.9
76	DQ	56	ARG	2.9
16	v	83	LYS	2.9
28	BU	125	GLY	2.9
29	AB	20	GLY	2.9
28	BU	25	ILE	2.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	AJ	43	VAL	2.9
38	CE	67	LEU	2.9
44	CK	29	LEU	2.9
51	G	2	ALA	2.9
63	DD	79	ALA	2.9
71	a	12	VAL	2.9
6	AY	109	ARG	2.9
28	BU	92	PHE	2.9
44	CK	30	GLU	2.9
79	DT	161	ASP	2.9
82	L1	24	LYS	2.9
21	BN	60	SER	2.9
40	CG	43	HIS	2.9
43	AP	104	LEU	2.9
50	F	132	ALA	2.9
51	G	56	LEU	2.9
51	CR	64	ILE	2.9
54	J	63	LEU	2.9
68	X	26	ALA	2.9
82	l1	13	VAL	2.9
7	m	38	THR	2.9
20	z	136	ARG	2.9
31	BX	61	TYR	2.9
35	CB	62	TYR	2.9
48	D	38	PHE	2.9
77	g	41	THR	2.9
78	h	173	PHE	2.9
38	AK	3	LYS	2.9
66	DG	3	GLY	2.9
38	AK	86	GLN	2.9
62	DC	112	VAL	2.9
80	p0	93	LEU	2.9
47	C	152	PRO	2.9
56	L	135	ALA	2.9
58	N	114	ALA	2.9
78	DS	127	TYR	2.9
50	F	133	LYS	2.9
57	M	5	LYS	2.9
73	c	19	LYS	2.9
40	CG	50	GLY	2.9
69	DJ	127	GLY	2.9
37	CD	43	VAL	2.9

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	G	139	VAL	2.9
54	J	126	VAL	2.9
59	O	39	ASP	2.9
59	CZ	62	LEU	2.9
63	DD	39	GLN	2.9
79	AR	309	VAL	2.9
82	L1	150	ASP	2.9
10	p	197	ALA	2.9
16	BI	16	SER	2.9
16	BI	176	LYS	2.9
31	BX	97	ALA	2.9
67	W	114	GLU	2.9
79	DT	48	THR	2.9
4	j	193	ARG	2.9
7	m	3	MET	2.9
29	AB	42	ARG	2.9
44	AQ	24	ARG	2.9
63	DD	47	VAL	2.9
71	a	8	ARG	2.9
73	DN	18	VAL	2.9
38	AK	10	LYS	2.9
58	CY	15	LYS	2.9
79	AR	54	GLN	2.9
63	S	9	PHE	2.9
22	2	86	GLU	2.9
38	AK	7	SER	2.9
45	CL	59	GLY	2.9
49	E	202	THR	2.9
62	R	104	THR	2.9
64	DE	30	THR	2.9
4	j	175	ILE	2.9
8	n	89	LYS	2.9
10	BC	165	VAL	2.9
43	CJ	100	LYS	2.9
44	AQ	29	LEU	2.9
49	CP	78	ILE	2.9
61	DB	14	ILE	2.9
73	c	37	LYS	2.9
80	P0	77	LEU	2.9
82	l1	9	VAL	2.9
49	E	113	ALA	2.9
56	CW	25	ASP	2.9

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
63	DD	63	ASP	2.9
74	DO	32	PHE	2.9
27	BT	115	ARG	2.9
45	i	43	PRO	2.9
10	BC	236	GLY	2.9
49	E	194	SER	2.9
69	DJ	3	ARG	2.9
16	v	197	LEU	2.9
35	CB	72	VAL	2.9
37	AJ	6	ILE	2.9
49	E	188	VAL	2.9
50	F	176	VAL	2.9
51	CR	76	VAL	2.9
52	H	168	VAL	2.9
44	CK	25	GLN	2.9
79	AR	102	GLN	2.9
80	P0	49	ALA	2.9
50	F	175	HIS	2.9
64	DE	67	ARG	2.9
4	AW	53	GLY	2.9
69	Y	77	PRO	2.9
18	BK	87	SER	2.9
1	AS	1265	U	2.9
33	AF	101	VAL	2.9
34	AG	32	ILE	2.9
79	AR	73	THR	2.9
79	AR	104	PHE	2.9
80	P0	79	PHE	2.9
34	CA	31	GLN	2.9
50	CQ	211	GLU	2.9
6	l	192	LYS	2.9
10	BC	124	LYS	2.9
23	BP	50	LEU	2.9
53	CT	75	LEU	2.9
78	DS	171	GLY	2.9
16	BI	155	VAL	2.8
23	BP	47	VAL	2.8
25	BR	22	VAL	2.8
50	F	45	SER	2.8
52	H	57	SER	2.8
54	CU	94	ILE	2.8
65	DF	119	ILE	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
79	AR	312	VAL	2.8
4	j	186	PHE	2.8
45	i	88	PHE	2.8
4	AW	24	LYS	2.8
18	x	34	GLN	2.8
36	CC	107	GLN	2.8
46	CM	713	U	2.8
50	F	118	ARG	2.8
71	a	70	THR	2.8
50	F	213	LYS	2.8
51	G	127	LYS	2.8
25	7	78	HIS	2.8
33	BZ	76	LEU	2.8
64	T	57	LEU	2.8
64	DE	24	LEU	2.8
37	CD	37	VAL	2.8
61	Q	76	ILE	2.8
14	t	14	PHE	2.8
16	BI	21	PHE	2.8
16	v	153	ASN	2.8
16	BI	140	LYS	2.8
31	BX	13	ASN	2.8
39	AL	57	ASN	2.8
1	AS	1244	C	2.8
1	AS	1565	U	2.8
80	P0	69	GLU	2.8
22	BO	91	LEU	2.8
47	CN	16	LEU	2.8
51	G	207	LEU	2.8
79	AR	31	ASP	2.8
6	l	9	VAL	2.8
6	l	231	VAL	2.8
8	BA	130	ILE	2.8
10	BC	132	VAL	2.8
10	BC	161	ILE	2.8
16	BI	71	ARG	2.8
19	y	157	PRO	2.8
8	BA	131	LYS	2.8
19	BL	155	PHE	2.8
26	BS	27	ARG	2.8
74	d	80	ARG	2.8
79	AR	30	PRO	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
22	2	3	LYS	2.8
35	AH	49	SER	2.8
5	k	6	TYR	2.8
53	I	71	THR	2.8
58	CY	145	GLY	2.8
79	AR	191	GLY	2.8
16	v	108	ARG	2.8
22	BO	88	ARG	2.8
28	AA	68	VAL	2.8
49	E	72	LYS	2.8
56	CW	10	LYS	2.8
64	T	61	ILE	2.8
80	P0	50	VAL	2.8
62	DC	109	PRO	2.8
82	L1	212	PRO	2.8
27	BT	79	ALA	2.8
52	CS	170	GLN	2.8
60	DA	40	TYR	2.8
1	AS	1345	G	2.8
5	k	263	THR	2.8
10	p	94	LEU	2.8
35	CB	25	THR	2.8
1	AS	544	U	2.8
26	BS	64	VAL	2.8
35	AH	20	ILE	2.8
35	AH	70	LYS	2.8
48	D	55	LYS	2.8
55	K	97	THR	2.8
64	DE	14	LYS	2.8
9	o	225	ASP	2.8
82	ll	89	ASP	2.8
4	AW	145	LYS	2.8
4	AW	153	GLY	2.8
10	BC	184	LYS	2.8
19	y	92	ARG	2.8
32	AE	4	GLN	2.8
38	CE	48	ASN	2.8
39	AL	36	LYS	2.8
79	DT	223	ASN	2.8
12	r	166	ILE	2.8
49	E	112	THR	2.8
56	L	143	ILE	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	BI	42	PRO	2.8
46	CM	278	U	2.8
55	CV	89	GLU	2.8
76	DQ	45	GLU	2.8
79	AR	269	ASP	2.8
35	AH	41	ARG	2.8
7	m	92	LEU	2.8
39	CF	65	LEU	2.8
44	AQ	48	GLN	2.8
70	DK	32	ARG	2.8
55	CV	30	GLY	2.8
19	y	140	VAL	2.8
52	H	53	VAL	2.8
69	Y	30	SER	2.8
27	9	119	ILE	2.8
31	BX	94	ILE	2.8
39	CF	5	ILE	2.8
60	DA	37	ILE	2.8
67	W	117	ILE	2.8
6	l	71	ALA	2.8
6	AY	77	ARG	2.8
10	p	63	LYS	2.8
23	5	93	ARG	2.8
25	7	81	ALA	2.8
36	CC	92	LEU	2.8
56	CW	109	LEU	2.8
69	Y	52	TYR	2.8
39	CF	51	GLN	2.8
64	T	62	GLN	2.8
10	BC	92	PHE	2.8
16	BI	133	ILE	2.8
51	G	102	VAL	2.8
53	CT	36	VAL	2.8
55	K	55	PHE	2.8
55	CV	109	PHE	2.8
4	AW	46	LYS	2.8
56	L	154	LYS	2.8
4	AW	178	PRO	2.8
4	j	55	GLY	2.8
4	AW	180	LEU	2.8
39	CF	50	TYR	2.8
46	CM	1694	A	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	CR	219	VAL	2.8
6	AY	62	SER	2.8
10	BC	29	GLU	2.8
37	CD	26	SER	2.8
56	L	54	ARG	2.8
63	DD	140	SER	2.8
6	I	151	LEU	2.8
32	AE	2	ALA	2.8
47	C	17	LEU	2.8
6	AY	225	GLY	2.8
48	CO	155	TYR	2.8
51	CR	244	GLY	2.8
64	DE	12	ALA	2.8
1	AS	1091	U	2.8
6	AY	157	PHE	2.8
63	S	89	VAL	2.8
63	DD	76	GLN	2.8
79	DT	162	GLN	2.8
17	w	68	LYS	2.8
51	G	154	ILE	2.8
52	H	24	GLU	2.8
55	CV	8	ARG	2.8
58	N	30	LYS	2.8
60	DA	103	GLU	2.8
6	AY	63	ALA	2.8
51	CR	107	GLY	2.8
53	I	22	HIS	2.8
62	R	97	TYR	2.8
69	Y	2	THR	2.8
14	t	187	LYS	2.8
20	BM	70	LYS	2.8
44	CK	17	ARG	2.8
51	G	100	ARG	2.8
56	CW	20	GLU	2.8
62	R	111	MET	2.8
6	I	259	LEU	2.8
36	CC	88	LEU	2.8
51	CR	92	LEU	2.8
55	CV	96	LEU	2.8
68	X	55	LEU	2.8
54	CU	55	ALA	2.8
6	I	209	VAL	2.8

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
38	CE	59	THR	2.8
39	CF	27	VAL	2.8
52	CS	27	THR	2.8
56	L	158	PHE	2.8
61	DB	9	PHE	2.8
75	e	44	VAL	2.8
78	DS	125	LYS	2.8
25	BR	88	GLU	2.7
41	AN	16	GLU	2.7
28	BU	101	LEU	2.7
49	E	164	LEU	2.7
55	CV	121	LEU	2.7
32	AE	11	TYR	2.7
41	CH	22	LYS	2.7
19	y	155	PHE	2.7
42	CI	17	ARG	2.7
56	CW	32	GLY	2.7
69	Y	68	ARG	2.7
50	CQ	222	PRO	2.7
63	DD	114	THR	2.7
73	DN	31	PRO	2.7
29	AB	136	GLU	2.7
64	DE	101	GLU	2.7
60	P	25	TRP	2.7
52	CS	99	MET	2.7
1	AS	1551	U	2.7
16	BI	47	LYS	2.7
35	AH	19	LYS	2.7
36	CC	115	LYS	2.7
37	CD	76	LEU	2.7
48	CO	61	LEU	2.7
56	CW	16	LYS	2.7
78	h	158	ARG	2.7
19	y	96	PHE	2.7
26	BS	46	TYR	2.7
38	AK	2	GLY	2.7
46	B	724	G	2.7
4	j	112	ILE	2.7
6	AY	84	HIS	2.7
50	F	50	ILE	2.7
55	K	20	GLN	2.7
56	CW	134	ILE	2.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
66	V	126	GLU	2.7
80	p0	21	GLU	2.7
82	l1	158	GLN	2.7
33	AF	42	CYS	2.7
71	DL	3	ASP	2.7
18	x	22	LEU	2.7
19	BL	166	LEU	2.7
27	BT	109	LEU	2.7
28	BU	22	LYS	2.7
53	CT	164	LYS	2.7
79	DT	291	TRP	2.7
36	CC	36	LEU	2.7
1	AS	1013	U	2.7
1	AS	1759	U	2.7
35	CB	89	ILE	2.7
51	G	147	ILE	2.7
80	p0	80	ILE	2.7
75	DP	27	GLN	2.7
6	l	100	MET	2.7
29	AB	78	LEU	2.7
32	AE	9	ARG	2.7
54	J	67	ARG	2.7
62	DC	9	LYS	2.7
76	f	46	LYS	2.7
46	B	504	A	2.7
48	CO	47	LEU	2.7
58	N	71	LEU	2.7
7	m	7	PHE	2.7
10	p	149	ALA	2.7
35	CB	31	VAL	2.7
69	DJ	101	TYR	2.7
70	DK	124	VAL	2.7
4	j	145	LYS	2.7
4	AW	156	LYS	2.7
46	B	75	U	2.7
69	Y	61	ILE	2.7
4	AW	250	GLN	2.7
60	DA	43	LYS	2.7
63	DD	12	LYS	2.7
56	L	76	LEU	2.7
60	P	5	HIS	2.7
82	l1	215	ARG	2.7

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
80	P0	15	LEU	2.7
80	p0	15	LEU	2.7
55	CV	21	PHE	2.7
56	CW	146	PHE	2.7
6	AY	210	TYR	2.7
49	E	151	CYS	2.7
52	H	134	VAL	2.7
73	DN	47	ALA	2.7
39	CF	42	LYS	2.7
54	CU	44	GLU	2.7
1	1	601	U	2.7
19	y	167	SER	2.7
75	e	54	LEU	2.7
79	AR	240	LEU	2.7
82	ll	137	PRO	2.7
64	T	28	PHE	2.7
66	V	3	GLY	2.7
79	AR	19	TRP	2.7
10	p	71	LYS	2.7
35	CB	43	LYS	2.7
36	AI	75	TYR	2.7
45	CL	54	LYS	2.7
51	CR	33	ALA	2.7
66	V	84	LYS	2.7
70	Z	74	VAL	2.7
73	DN	4	LYS	2.7
73	DN	84	VAL	2.7
79	DT	216	VAL	2.7
36	CC	9	LEU	2.7
38	AK	6	PRO	2.7
50	F	63	GLN	2.7
35	AH	14	ASN	2.7
48	CO	38	PHE	2.7
16	BI	73	ARG	2.7
18	BK	151	THR	2.7
23	BP	17	VAL	2.7
50	F	174	ARG	2.7
52	H	147	THR	2.7
52	H	160	VAL	2.7
82	L1	5	THR	2.7
47	C	50	ILE	2.7
49	E	64	ILE	2.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
11	q	10	LEU	2.7
39	CF	14	LEU	2.7
42	CI	13	LEU	2.7
58	N	140	LEU	2.7
79	DT	42	LEU	2.7
22	2	78	LYS	2.7
38	AK	43	LYS	2.7
6	AY	208	VAL	2.7
37	CD	46	VAL	2.7
47	C	101	ARG	2.7
65	U	123	ARG	2.7
50	F	195	ALA	2.7
66	V	62	ALA	2.7
73	DN	69	ASN	2.7
81	12	147	ASN	2.7
24	6	79	ILE	2.7
29	AB	46	ASP	2.7
39	CF	58	ASP	2.7
42	CI	3	ASP	2.7
54	CU	132	ILE	2.7
79	AR	307	ILE	2.7
82	11	112	ALA	2.7
76	DQ	38	LEU	2.7
14	t	21	ARG	2.7
22	2	19	PHE	2.7
40	CG	10	LYS	2.7
48	D	116	LYS	2.7
54	J	135	ARG	2.7
62	R	47	ARG	2.7
27	BT	45	VAL	2.7
38	CE	47	HIS	2.7
1	AS	1236	A	2.7
6	AY	15	GLU	2.7
53	I	100	CYS	2.7
79	AR	168	SER	2.7
82	11	138	VAL	2.7
7	m	77	ALA	2.7
18	BK	64	ASN	2.7
26	8	62	ILE	2.7
31	BX	45	ILE	2.7
35	AH	30	LEU	2.7
39	CF	26	LYS	2.7

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
47	C	201	LEU	2.7
52	H	27	THR	2.7
61	DB	31	LYS	2.7
63	DD	56	LEU	2.7
19	BL	174	ARG	2.7
16	BI	19	MET	2.7
50	F	18	PHE	2.7
71	a	58	PHE	2.7
80	p0	50	VAL	2.7
14	BG	93	ILE	2.7
56	L	140	ILE	2.7
1	1	732	U	2.7
7	m	270	LYS	2.7
29	AB	137	LYS	2.7
36	AI	83	LYS	2.7
51	G	247	LEU	2.7
74	DO	22	LYS	2.7
14	BG	23	ARG	2.7
26	BS	33	ARG	2.7
38	CE	17	THR	2.7
1	AS	1223	C	2.7
5	k	226	PHE	2.7
35	CB	23	VAL	2.7
47	C	31	VAL	2.7
54	J	56	VAL	2.7
67	W	111	VAL	2.7
4	j	60	LYS	2.6
21	BN	160	LYS	2.6
35	AH	62	TYR	2.6
63	DD	48	TYR	2.6
73	c	79	ILE	2.7
14	BG	15	ARG	2.6
19	BL	176	ARG	2.6
49	E	143	LEU	2.6
51	CR	180	LEU	2.6
29	BV	44	ASN	2.6
55	CV	35	ASN	2.6
75	e	51	ASN	2.6
13	s	127	PHE	2.6
46	CM	672	U	2.6
48	D	98	THR	2.6
63	DD	3	THR	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
7	AZ	170	GLY	2.6
29	AB	30	GLY	2.6
42	CI	1	MET	2.6
52	H	153	GLY	2.6
20	z	152	GLU	2.6
60	P	83	GLU	2.6
10	BC	100	PRO	2.6
27	9	126	ALA	2.6
40	CG	2	PRO	2.6
44	AQ	18	TYR	2.6
53	I	226	ILE	2.6
56	L	57	ARG	2.6
73	DN	89	ARG	2.6
79	DT	38	ARG	2.6
82	ll	139	SER	2.6
35	CB	11	ASN	2.6
78	h	176	ASN	2.6
81	12	161	ASP	2.6
28	BU	13	VAL	2.6
28	BU	114	VAL	2.6
33	AF	120	VAL	2.6
33	BZ	35	LYS	2.6
46	CM	1348	U	2.6
51	G	60	GLU	2.6
51	G	246	LYS	2.6
62	DC	26	VAL	2.6
1	1	1099	A	2.6
38	CE	45	ARG	2.6
4	AW	246	LEU	2.6
7	m	190	LEU	2.6
14	BG	9	LEU	2.6
27	9	57	LEU	2.6
49	E	51	ILE	2.6
57	M	66	TYR	2.6
65	U	119	ILE	2.6
29	BV	11	HIS	2.6
79	DT	7	LEU	2.6
52	H	48	PHE	2.6
63	S	59	PHE	2.6
29	AB	44	ASN	2.6
33	AF	37	LYS	2.6
58	N	68	GLY	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
65	U	51	ASP	2.6
64	DE	62	GLN	2.6
66	DG	12	GLN	2.6
77	DR	4	VAL	2.6
80	P0	59	VAL	2.6
82	L1	25	LYS	2.6
82	L1	170	GLY	2.6
41	AN	26	ARG	2.6
24	6	17	LEU	2.6
31	BX	102	ILE	2.6
32	AE	74	ILE	2.6
46	B	492	U	2.6
6	l	137	LEU	2.6
16	BI	154	PRO	2.6
58	N	95	PRO	2.6
1	AS	1478	A	2.6
28	BU	4	PHE	2.6
48	CO	30	PHE	2.6
28	AA	111	LYS	2.6
51	CR	102	VAL	2.6
51	CR	105	VAL	2.6
58	CY	7	VAL	2.6
63	DD	38	VAL	2.6
12	r	162	GLN	2.6
39	AL	40	GLN	2.6
40	CG	17	GLN	2.6
43	AP	26	THR	2.6
51	CR	56	LEU	2.6
82	L1	154	THR	2.6
6	l	190	ALA	2.6
13	s	118	PRO	2.6
16	BI	45	PRO	2.6
51	CR	31	PRO	2.6
13	s	96	PHE	2.6
73	c	12	LYS	2.6
35	CB	49	SER	2.6
72	b	40	VAL	2.6
7	AZ	151	GLN	2.6
24	6	15	LEU	2.6
72	DM	100	ILE	2.6
82	ll	120	ILE	2.6
7	m	27	LYS	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
17	BJ	68	LYS	2.6
29	BV	10	LYS	2.6
48	CO	98	THR	2.6
49	E	175	ALA	2.6
51	G	133	LYS	2.6
52	CS	94	THR	2.6
78	h	128	THR	2.6
1	AS	1346	U	2.6
16	BI	189	HIS	2.6
38	CE	63	ARG	2.6
58	CY	95	PRO	2.6
70	DK	107	PHE	2.6
18	x	83	TRP	2.6
33	BZ	43	VAL	2.6
48	D	29	TRP	2.6
52	CS	105	GLY	2.6
59	CZ	120	CYS	2.6
11	BD	11	ASP	2.6
16	BI	7	LEU	2.6
27	BT	80	ILE	2.6
50	CQ	208	LYS	2.6
51	G	42	LEU	2.6
60	P	62	GLN	2.6
36	AI	25	LYS	2.6
40	CG	5	LYS	2.6
53	I	14	LYS	2.6
56	L	16	LYS	2.6
80	p0	96	ILE	2.6
12	BE	199	PHE	2.6
58	N	100	TYR	2.6
73	DN	73	TYR	2.6
60	P	121	ARG	2.6
5	k	243	HIS	2.6
22	2	89	VAL	2.6
52	CS	52	GLU	2.6
61	DB	24	HIS	2.6
66	DG	71	VAL	2.6
28	AA	46	ILE	2.6
50	CQ	22	LEU	2.6
50	CQ	149	LYS	2.6
14	t	26	PHE	2.6
35	AH	52	ALA	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	CB	52	ALA	2.6
48	D	57	ALA	2.6
51	G	59	ARG	2.6
70	Z	12	ALA	2.6
71	a	64	PHE	2.6
80	p0	11	TYR	2.6
10	BC	203	GLU	2.6
56	L	41	GLU	2.6
59	O	84	GLU	2.6
77	g	52	GLY	2.6
1	AS	1347	U	2.6
16	BI	14	LYS	2.6
60	P	109	LYS	2.6
60	DA	107	LYS	2.6
70	Z	5	LYS	2.6
80	P0	75	LYS	2.6
12	r	116	ARG	2.6
23	5	56	ILE	2.6
71	a	63	GLN	2.6
6	AY	57	ALA	2.6
22	BO	159	PHE	2.6
53	I	96	SER	2.6
54	CU	2	SER	2.6
58	N	13	PHE	2.6
67	W	79	ASP	2.6
79	DT	168	SER	2.6
6	l	184	LYS	2.6
29	BV	30	GLY	2.6
56	L	142	ASN	2.6
82	ll	205	VAL	2.6
4	AW	158	ILE	2.6
42	CI	15	ARG	2.6
45	i	64	LEU	2.6
48	D	47	LEU	2.6
49	CP	149	LEU	2.6
55	CV	189	ILE	2.6
64	T	100	LEU	2.6
55	CV	27	PHE	2.6
6	AY	86	SER	2.6
9	BB	15	LYS	2.6
10	BC	134	LYS	2.6
18	BK	42	GLU	2.6

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
5	k	259	ASN	2.6
23	5	70	GLY	2.6
56	L	92	LYS	2.6
73	DN	70	LYS	2.6
7	AZ	150	LEU	2.6
18	BK	22	LEU	2.6
32	BY	18	ARG	2.6
43	AP	10	THR	2.6
66	V	118	PRO	2.6
72	DM	91	PRO	2.6
79	AR	244	PRO	2.6
53	I	212	LEU	2.6
14	t	18	TRP	2.6
50	F	169	ILE	2.6
19	BL	149	ALA	2.6
49	E	184	GLN	2.6
58	CY	114	ALA	2.6
62	DC	6	ALA	2.6
9	BB	88	LYS	2.6
26	BS	49	LYS	2.6
32	BY	87	LYS	2.6
79	AR	258	LYS	2.6
14	BG	49	ARG	2.6
22	BO	89	VAL	2.6
30	AC	62	SER	2.6
34	CA	22	VAL	2.6
57	M	46	LEU	2.6
6	AY	75	ILE	2.6
14	BG	3	ILE	2.6
26	8	124	ILE	2.6
79	AR	138	ILE	2.6
71	a	72	PHE	2.5
14	BG	89	TYR	2.5
15	BH	35	GLN	2.5
33	AF	9	LYS	2.5
51	G	103	TYR	2.5
1	1	2452	G	2.5
6	AY	78	VAL	2.5
27	9	29	VAL	2.5
30	AC	14	ARG	2.5
32	AE	66	VAL	2.5
46	CM	1743	A	2.5

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
53	CT	225	GLU	2.5
58	N	33	ARG	2.5
75	e	29	ARG	2.5
16	v	118	SER	2.5
35	CB	79	SER	2.5
42	AO	24	SER	2.5
70	Z	40	SER	2.5
79	DT	164	SER	2.5
79	DT	166	VAL	2.5
9	o	10	LEU	2.5
10	BC	187	LEU	2.5
11	q	176	LEU	2.5
29	AB	118	LEU	2.5
30	BW	47	LEU	2.5
40	CG	13	LEU	2.5
16	BI	153	ASN	2.5
26	8	95	ILE	2.5
71	DL	7	ILE	2.5
10	BC	182	LYS	2.5
19	BL	6	THR	2.5
22	2	87	LYS	2.5
29	BV	34	LYS	2.5
29	BV	55	LYS	2.5
38	CE	14	LYS	2.5
44	AQ	52	THR	2.5
52	H	106	LYS	2.5
53	I	79	LYS	2.5
56	L	160	HIS	2.5
56	CW	11	THR	2.5
51	G	18	TRP	2.5
16	v	109	ARG	2.5
48	D	195	ARG	2.5
64	T	47	ARG	2.5
71	DL	8	ARG	2.5
29	BV	37	GLY	2.5
39	AL	25	VAL	2.5
49	E	81	VAL	2.5
54	J	148	VAL	2.5
59	O	66	VAL	2.5
82	L1	169	VAL	2.5
1	AS	1023	A	2.5
49	E	118	SER	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	G	12	LEU	2.5
56	L	25	ASP	2.5
82	L1	16	LEU	2.5
30	BW	21	ILE	2.5
33	AF	35	LYS	2.5
64	T	44	LYS	2.5
1	1	2455	G	2.5
80	p0	66	PHE	2.5
26	8	33	ARG	2.5
28	AA	97	THR	2.5
31	BX	26	THR	2.5
45	i	83	HIS	2.5
56	L	132	ARG	2.5
80	P0	40	GLU	2.5
49	CP	174	VAL	2.5
62	R	105	VAL	2.5
10	BC	129	LYS	2.5
24	6	69	LEU	2.5
26	8	36	LYS	2.5
44	CK	61	LYS	2.5
48	CO	85	LYS	2.5
63	DD	67	LYS	2.5
78	h	190	LEU	2.5
79	AR	46	LYS	2.5
4	j	158	ILE	2.5
10	BC	144	ILE	2.5
26	8	114	ILE	2.5
29	AB	68	PHE	2.5
51	CR	195	ILE	2.5
58	N	84	ILE	2.5
80	P0	61	ARG	2.5
1	AS	1352	C	2.5
6	l	129	ALA	2.5
7	m	100	ALA	2.5
44	AQ	25	GLN	2.5
51	CR	63	ALA	2.5
59	O	112	ALA	2.5
67	DH	114	GLU	2.5
70	Z	28	ALA	2.5
82	L1	197	ASN	2.5
44	CK	12	GLY	2.5
73	c	16	GLY	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
6	l	349	LYS	2.5
54	J	30	LEU	2.5
78	h	185	LYS	2.5
11	q	69	ARG	2.5
52	H	62	ILE	2.5
58	CY	84	ILE	2.5
50	F	167	ASP	2.5
46	CM	1	U	2.5
46	CM	1695	U	2.5
82	ll	22	GLU	2.5
31	BX	60	TYR	2.5
33	AF	38	GLY	2.5
38	AK	80	THR	2.5
46	CM	777	A	2.5
56	L	153	GLN	2.5
60	DA	44	GLY	2.5
69	Y	80	ASN	2.5
49	E	185	LEU	2.5
27	9	40	ARG	2.5
51	CR	226	PHE	2.5
70	DK	16	ARG	2.5
12	r	115	MET	2.5
16	BI	145	ASP	2.5
51	G	199	GLU	2.5
1	AS	1249	U	2.5
1	AS	1349	U	2.5
9	BB	96	LYS	2.5
37	CD	66	LYS	2.5
49	E	88	GLY	2.5
53	I	36	VAL	2.5
72	b	54	VAL	2.5
73	c	73	TYR	2.5
75	e	7	VAL	2.5
76	f	2	ALA	2.5
79	DT	247	TYR	2.5
6	AY	195	LEU	2.5
47	C	174	TRP	2.5
67	DH	28	THR	2.5
1	1	1023	A	2.5
26	BS	142	ILE	2.5
29	AB	102	ILE	2.5
47	C	170	ILE	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
59	CZ	140	PHE	2.5
79	AR	167	ILE	2.5
6	AY	192	LYS	2.5
23	BP	64	VAL	2.5
26	BS	105	VAL	2.5
27	9	7	ASP	2.5
75	e	14	LYS	2.5
28	BU	23	VAL	2.5
50	F	119	ALA	2.5
29	AB	5	LEU	2.5
42	AO	9	ARG	2.5
44	AQ	34	HIS	2.5
51	G	189	LEU	2.5
58	CY	33	ARG	2.5
74	DO	49	HIS	2.5
79	AR	135	TRP	2.5
7	AZ	70	THR	2.5
28	BU	83	THR	2.5
6	AY	352	PRO	2.5
24	BQ	94	TYR	2.5
24	BQ	113	ALA	2.5
28	BU	110	ALA	2.5
35	CB	7	TYR	2.5
38	AK	70	VAL	2.5
51	G	181	VAL	2.5
7	AZ	171	LEU	2.5
22	BO	71	SER	2.5
26	8	94	GLN	2.5
26	BS	108	LEU	2.5
50	CQ	151	GLN	2.5
55	CV	171	LEU	2.5
69	Y	21	GLY	2.5
71	a	134	ALA	2.5
78	DS	166	PRO	2.5
66	V	109	GLN	2.5
80	P0	10	GLN	2.5
29	BV	53	PHE	2.5
45	i	33	ASN	2.5
49	E	193	THR	2.5
49	E	213	ILE	2.5
55	CV	78	ILE	2.5
67	W	83	MET	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
70	Z	3	LYS	2.5
77	g	48	THR	2.5
79	AR	254	THR	2.5
16	v	105	ARG	2.5
5	k	246	LEU	2.5
5	k	267	ALA	2.5
6	AY	69	GLY	2.5
51	G	192	VAL	2.5
56	L	53	ARG	2.5
7	m	12	TYR	2.5
56	L	97	LEU	2.5
59	CZ	106	LEU	2.5
61	DB	28	LEU	2.5
62	R	113	GLY	2.5
63	S	56	LEU	2.5
79	AR	271	LEU	2.5
82	ll	38	LEU	2.5
82	ll	41	TYR	2.5
51	CR	68	GLN	2.5
40	CG	40	LYS	2.5
48	CO	216	LYS	2.5
50	CQ	168	PHE	2.5
51	CR	108	LYS	2.5
63	DD	75	SER	2.5
6	l	249	ILE	2.5
23	BP	54	ILE	2.5
54	J	132	ILE	2.5
60	DA	38	ILE	2.5
73	DN	36	ILE	2.5
1	AS	132	U	2.5
49	E	203	GLU	2.5
52	H	94	THR	2.5
77	g	37	ARG	2.5
79	AR	12	THR	2.5
18	BK	85	ALA	2.5
22	2	128	LEU	2.5
27	BT	70	VAL	2.5
47	C	97	ALA	2.5
48	CO	20	VAL	2.5
49	E	153	VAL	2.5
53	I	124	LEU	2.5
57	CX	23	ALA	2.5

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
61	DB	54	ALA	2.5
72	b	42	LEU	2.5
9	o	17	GLN	2.5
17	w	71	PRO	2.5
24	6	63	LYS	2.5
27	9	41	GLN	2.5
27	BT	78	PHE	2.5
29	AB	77	LYS	2.5
45	i	65	LYS	2.5
49	E	59	LYS	2.5
6	l	10	ILE	2.5
46	CM	667	A	2.5
46	CM	673	A	2.5
50	CQ	217	GLU	2.5
51	G	49	ARG	2.5
51	CR	253	ARG	2.5
71	DL	131	ARG	2.5
80	P0	16	ARG	2.5
7	m	9	THR	2.5
26	BS	91	ASN	2.5
50	F	38	VAL	2.5
62	R	117	GLY	2.5
63	DD	116	LEU	2.5
79	DT	36	GLY	2.5
5	AX	155	ALA	2.5
16	BI	182	LYS	2.5
39	AL	6	LYS	2.5
56	L	31	ALA	2.5
82	ll	190	LEU	2.5
52	H	69	PHE	2.5
6	AY	199	ARG	2.5
74	d	19	HIS	2.5
13	BF	125	MET	2.4
1	AS	1563	A	2.4
6	AY	72	VAL	2.4
7	m	113	LEU	2.4
14	BG	24	VAL	2.4
16	v	182	LYS	2.4
33	AF	43	VAL	2.4
64	T	7	LYS	2.4
79	DT	306	VAL	2.4
4	j	59	ALA	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
22	BO	34	TYR	2.4
29	AB	127	ALA	2.4
78	h	129	THR	2.4
5	k	252	ILE	2.4
7	m	6	GLU	2.4
19	BL	101	ILE	2.4
26	BS	62	ILE	2.4
35	CB	61	GLN	2.4
36	CC	108	ARG	2.4
56	CW	48	GLN	2.4
56	CW	108	ARG	2.4
59	O	99	GLU	2.4
82	ll	67	ILE	2.4
26	8	50	SER	2.4
36	CC	73	LYS	2.4
68	X	35	SER	2.4
51	CR	72	VAL	2.4
78	h	191	LYS	2.4
48	CO	53	GLY	2.4
59	CZ	127	GLY	2.4
71	a	71	GLY	2.4
71	DL	74	LEU	2.4
32	BY	90	ALA	2.4
38	AK	57	ARG	2.4
44	CK	14	PHE	2.4
47	CN	155	TYR	2.4
52	H	104	ASN	2.4
59	O	57	ALA	2.4
46	CM	504	A	2.4
59	CZ	111	ASN	2.4
82	L1	21	THR	2.4
6	l	30	PRO	2.4
11	BD	48	ILE	2.4
14	BG	46	ILE	2.4
22	BO	63	ILE	2.4
51	CR	199	GLU	2.4
60	DA	83	GLU	2.4
62	DC	31	GLU	2.4
63	DD	64	ILE	2.4
82	L1	199	GLN	2.4
27	9	125	LYS	2.4
8	BA	75	LEU	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
18	x	24	VAL	2.4
22	BO	72	VAL	2.4
28	BU	45	GLY	2.4
29	AB	37	GLY	2.4
35	AH	51	LEU	2.4
49	E	66	LEU	2.4
82	L1	14	HIS	2.4
52	CS	140	SER	2.4
63	DD	2	SER	2.4
79	AR	220	TRP	2.4
82	l1	20	SER	2.4
26	8	84	PHE	2.4
42	AO	23	ARG	2.4
52	H	26	ALA	2.4
59	O	42	ALA	2.4
32	BY	55	ASN	2.4
4	j	149	LYS	2.4
9	o	93	ILE	2.4
56	L	130	THR	2.4
63	DD	84	ILE	2.4
67	W	85	ILE	2.4
77	g	50	THR	2.4
19	y	61	PRO	2.4
14	BG	10	LEU	2.4
27	BT	73	VAL	2.4
29	AB	40	HIS	2.4
67	W	61	VAL	2.4
79	DT	192	HIS	2.4
50	CQ	150	SER	2.4
4	j	182	ALA	2.4
49	E	87	ALA	2.4
13	BF	78	GLU	2.4
31	AD	42	LYS	2.4
60	P	38	ILE	2.4
71	a	83	LYS	2.4
71	DL	15	ASN	2.4
79	AR	261	LYS	2.4
7	m	76	THR	2.4
49	E	91	THR	2.4
79	DT	314	THR	2.4
82	l1	155	ILE	2.4
53	I	135	PRO	2.4

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
6	l	12	VAL	2.4
49	CP	188	VAL	2.4
51	CR	187	ARG	2.4
55	CV	82	VAL	2.4
56	CW	105	LEU	2.4
63	S	38	VAL	2.4
26	BS	93	HIS	2.4
5	k	106	TRP	2.4
4	j	68	LYS	2.4
7	AZ	226	TYR	2.4
22	2	56	TYR	2.4
24	BQ	26	ALA	2.4
60	DA	26	PHE	2.4
66	DG	53	TRP	2.4
33	AF	19	LYS	2.4
48	CO	152	LYS	2.4
49	E	156	LYS	2.4
55	CV	37	LYS	2.4
67	DH	29	LYS	2.4
82	L1	41	TYR	2.4
54	J	145	ILE	2.4
13	s	39	GLN	2.4
13	s	30	LEU	2.4
16	v	164	LEU	2.4
18	x	48	LEU	2.4
26	BS	40	LEU	2.4
47	C	184	LEU	2.4
50	F	166	ARG	2.4
50	F	183	LEU	2.4
50	CQ	41	ARG	2.4
61	DB	36	ARG	2.4
63	DD	53	LEU	2.4
79	AR	303	THR	2.4
6	l	79	GLY	2.4
79	DT	301	GLY	2.4
4	j	176	ASP	2.4
8	n	105	PHE	2.4
54	J	151	ASP	2.4
54	CU	21	PHE	2.4
79	DT	94	ASP	2.4
34	AG	96	ALA	2.4
10	p	65	ILE	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
52	H	137	ILE	2.4
52	CS	79	SER	2.4
58	N	49	ILE	2.4
26	BS	94	GLN	2.4
44	CK	45	ARG	2.4
79	DT	91	ARG	2.4
28	AA	80	LEU	2.4
40	CG	49	LEU	2.4
43	CJ	70	LEU	2.4
65	DF	46	VAL	2.4
78	DS	142	LEU	2.4
22	BO	62	GLY	2.4
26	BS	37	THR	2.4
49	E	199	THR	2.4
80	P0	104	VAL	2.4
77	DR	55	LYS	2.4
82	L1	161	LYS	2.4
7	AZ	119	TYR	2.4
13	s	170	GLU	2.4
37	AJ	52	TYR	2.4
46	B	703	U	2.4
56	L	124	HIS	2.4
56	CW	8	TYR	2.4
79	AR	293	ALA	2.4
6	l	18	SER	2.4
31	AD	102	ILE	2.4
80	P0	80	ILE	2.4
16	BI	10	LEU	2.4
6	l	186	LYS	2.4
19	y	82	VAL	2.4
27	BT	76	LEU	2.4
36	CC	106	LYS	2.4
42	CI	16	LYS	2.4
49	E	75	VAL	2.4
63	DD	88	LEU	2.4
18	x	60	PHE	2.4
22	2	90	ASN	2.4
23	5	28	PHE	2.4
29	BV	68	PHE	2.4
46	CM	1700	G	2.4
59	O	110	GLY	2.4
72	DM	73	GLY	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
70	DK	42	PRO	2.4
7	m	295	ALA	2.4
10	BC	255	ALA	2.4
15	BH	131	ALA	2.4
18	x	44	ALA	2.4
19	y	178	ARG	2.4
51	G	14	ALA	2.4
74	DO	15	GLU	2.4
78	h	148	TYR	2.4
14	BG	51	ILE	2.4
24	BQ	79	ILE	2.4
82	ll	206	ILE	2.4
4	j	177	LYS	2.4
4	AW	177	LYS	2.4
6	AY	234	LEU	2.4
9	o	92	LYS	2.4
16	v	179	LEU	2.4
19	y	87	VAL	2.4
27	BT	81	GLN	2.4
38	CE	36	SER	2.4
50	F	161	SER	2.4
59	CZ	73	LYS	2.4
62	R	8	LYS	2.4
63	S	115	LEU	2.4
63	DD	120	SER	2.4
66	DG	22	LEU	2.4
44	CK	48	GLN	2.4
48	D	146	GLN	2.4
54	J	146	GLN	2.4
6	l	128	ALA	2.4
42	AO	11	ARG	2.4
44	AQ	30	GLU	2.4
50	F	105	ALA	2.4
58	N	11	ARG	2.4
27	9	111	LEU	2.4
32	AE	33	LYS	2.4
32	BY	25	LYS	2.4
34	CA	20	LYS	2.4
39	AL	24	ILE	2.4
69	DJ	125	ILE	2.4
35	AH	57	LEU	2.4
67	W	62	LEU	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	j	47	GLN	2.4
9	BB	199	PHE	2.4
59	O	92	SER	2.4
53	I	83	CYS	2.4
62	R	15	PHE	2.4
67	W	32	GLN	2.4
71	DL	23	PHE	2.4
5	k	28	ARG	2.4
6	AY	76	PRO	2.4
56	CW	144	PRO	2.4
59	O	43	ARG	2.4
63	S	131	ARG	2.4
1	AS	1021	A	2.4
15	BH	4	THR	2.4
18	x	35	ALA	2.4
26	BS	141	TYR	2.4
47	CN	209	GLU	2.4
71	a	86	GLU	2.4
30	AC	23	LYS	2.4
38	CE	87	THR	2.4
19	BL	158	HIS	2.4
43	CJ	60	LYS	2.4
50	F	152	LYS	2.4
53	I	131	LYS	2.4
56	L	42	ILE	2.4
58	CY	36	LYS	2.4
63	S	16	THR	2.4
71	DL	134	ALA	2.4
43	CJ	35	LEU	2.4
63	DD	104	LEU	2.4
67	W	92	LEU	2.4
7	AZ	65	VAL	2.4
47	C	156	VAL	2.4
49	CP	178	VAL	2.4
7	m	264	GLN	2.4
14	BG	91	ARG	2.4
46	B	655	U	2.4
55	K	66	SER	2.4
56	CW	121	SER	2.4
60	DA	7	SER	2.4
78	DS	122	ARG	2.4
16	v	148	TYR	2.4

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	AW	238	ILE	2.4
6	AY	122	ALA	2.4
10	p	107	LYS	2.4
50	F	186	LYS	2.4
82	L1	18	GLU	2.4
7	m	185	ILE	2.4
10	BC	88	ALA	2.4
37	AJ	7	ALA	2.4
51	CR	103	TYR	2.4
56	L	95	TYR	2.4
68	X	58	TYR	2.4
49	E	124	ILE	2.4
67	W	23	ILE	2.4
6	l	84	HIS	2.4
24	BQ	34	LEU	2.4
26	BS	82	LEU	2.4
50	F	177	LEU	2.4
60	DA	125	LEU	2.4
66	V	114	LEU	2.4
70	DK	15	LEU	2.4
79	DT	240	LEU	2.4
13	s	111	ASP	2.3
16	BI	163	GLY	2.3
19	BL	178	ARG	2.3
32	BY	59	TRP	2.3
51	CR	175	PHE	2.3
54	J	46	ASP	2.3
59	CZ	121	VAL	2.3
6	AY	88	GLN	2.3
16	BI	11	GLN	2.3
32	AE	38	PHE	2.3
64	T	80	ARG	2.3
52	CS	158	GLN	2.3
76	DQ	8	PHE	2.3
1	AS	1237	U	2.3
17	BJ	92	LYS	2.3
79	AR	292	SER	2.3
6	l	175	ALA	2.3
7	AZ	78	ALA	2.3
24	BQ	54	ALA	2.3
4	j	246	LEU	2.3
13	s	40	LEU	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
10	BC	195	THR	2.3
16	BI	112	ASN	2.3
31	BX	92	LEU	2.3
48	CO	96	LEU	2.3
10	p	38	GLY	2.3
18	BK	51	VAL	2.3
18	BK	133	HIS	2.3
28	BU	48	ARG	2.3
29	AB	117	ARG	2.3
44	AQ	73	THR	2.3
54	J	75	ARG	2.3
38	CE	81	GLY	2.3
55	K	68	GLY	2.3
73	c	30	VAL	2.3
14	BG	129	LYS	2.3
52	H	126	GLU	2.3
56	L	112	GLN	2.3
63	DD	119	ASP	2.3
65	DF	23	ASP	2.3
79	AR	44	LYS	2.3
17	BJ	142	LEU	2.3
26	BS	139	ILE	2.3
47	CN	170	ILE	2.3
48	CO	231	LEU	2.3
59	CZ	42	ALA	2.3
6	AY	153	VAL	2.3
16	BI	152	VAL	2.3
51	G	183	VAL	2.3
52	CS	115	LYS	2.3
56	L	114	PHE	2.3
71	a	27	VAL	2.3
22	BO	3	LYS	2.3
62	DC	32	GLU	2.3
73	DN	99	GLN	2.3
6	l	211	ALA	2.3
12	r	167	ILE	2.3
16	BI	179	LEU	2.3
26	8	88	ILE	2.3
29	BV	32	ARG	2.3
34	CA	32	ILE	2.3
36	CC	55	LEU	2.3
37	AJ	94	ALA	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	CR	23	LEU	2.3
56	CW	118	LEU	2.3
64	T	13	SER	2.3
79	DT	10	ARG	2.3
82	L1	50	SER	2.3
4	j	155	LYS	2.3
45	i	108	GLY	2.3
49	CP	83	LYS	2.3
53	CT	193	LYS	2.3
64	T	23	LYS	2.3
74	DO	54	VAL	2.3
79	AR	176	LYS	2.3
80	P0	94	LYS	2.3
66	V	64	HIS	2.3
10	p	145	GLU	2.3
74	d	33	MET	2.3
1	1	1264	G	2.3
6	l	75	ILE	2.3
17	w	99	ALA	2.3
22	BO	84	TYR	2.3
24	BQ	16	ALA	2.3
25	BR	39	LEU	2.3
32	AE	58	ILE	2.3
42	AO	13	LEU	2.3
51	CR	94	ALA	2.3
52	H	77	TYR	2.3
52	CS	74	ALA	2.3
51	G	45	VAL	2.3
51	G	99	PHE	2.3
51	CR	32	SER	2.3
52	CS	40	VAL	2.3
55	K	23	LYS	2.3
56	CW	55	ALA	2.3
82	L1	159	LEU	2.3
4	j	53	GLY	2.3
10	BC	166	PHE	2.3
14	t	22	VAL	2.3
16	BI	35	VAL	2.3
26	BS	35	PRO	2.3
36	CC	94	LYS	2.3
63	S	32	GLY	2.3
71	a	65	GLY	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
82	L1	202	GLY	2.3
14	BG	134	GLU	2.3
16	BI	38	ARG	2.3
52	H	63	GLN	2.3
53	CT	182	GLN	2.3
60	DA	99	ARG	2.3
72	DM	90	THR	2.3
4	j	49	ILE	2.3
6	l	234	LEU	2.3
7	AZ	212	LEU	2.3
13	s	19	LEU	2.3
18	BK	124	LYS	2.3
34	AG	67	ILE	2.3
50	F	173	ILE	2.3
53	CT	113	ILE	2.3
70	Z	39	LYS	2.3
71	a	96	LEU	2.3
18	x	8	PRO	2.3
28	BU	14	VAL	2.3
44	CK	16	VAL	2.3
64	DE	15	VAL	2.3
67	DH	115	VAL	2.3
80	P0	9	VAL	2.3
29	AB	33	GLY	2.3
35	CB	48	GLY	2.3
44	AQ	59	SER	2.3
25	7	47	ARG	2.3
37	CD	55	ARG	2.3
81	12	111	GLU	2.3
6	l	195	LEU	2.3
8	n	128	LYS	2.3
14	t	42	LYS	2.3
16	v	64	ILE	2.3
21	0	34	THR	2.3
36	AI	17	LEU	2.3
36	CC	14	LYS	2.3
52	H	170	GLN	2.3
59	O	73	LYS	2.3
62	DC	52	LYS	2.3
55	CV	83	TYR	2.3
57	CX	87	LEU	2.3
60	P	92	ILE	2.3

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
67	W	21	ILE	2.3
74	d	45	THR	2.3
23	5	33	TYR	2.3
39	AL	52	TYR	2.3
69	Y	8	ALA	2.3
4	AW	113	VAL	2.3
16	v	130	PHE	2.3
51	CR	205	PHE	2.3
54	J	177	VAL	2.3
73	DN	75	VAL	2.3
5	k	96	PRO	2.3
34	AG	11	GLY	2.3
56	CW	35	GLY	2.3
37	AJ	96	SER	2.3
38	CE	24	ARG	2.3
51	CR	250	SER	2.3
80	P0	74	GLU	2.3
4	j	46	LYS	2.3
4	j	188	LYS	2.3
56	L	115	LYS	2.3
1	AS	249	G	2.3
4	AW	49	ILE	2.3
21	0	162	LEU	2.3
43	AP	72	LEU	2.3
46	B	494	G	2.3
60	DA	5	HIS	2.3
48	D	217	LEU	2.3
51	G	138	TYR	2.3
56	CW	45	ILE	2.3
72	b	41	ILE	2.3
82	L1	93	LEU	2.3
13	BF	116	TYR	2.3
20	z	29	THR	2.3
21	BN	34	THR	2.3
21	0	36	VAL	2.3
21	BN	30	PHE	2.3
26	8	99	VAL	2.3
27	BT	20	PHE	2.3
39	AL	31	VAL	2.3
43	AP	81	ALA	2.3
57	CX	16	PHE	2.3
69	DJ	128	PHE	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
79	DT	77	ASP	2.3
80	p0	26	PHE	2.3
7	m	21	ARG	2.3
25	BR	47	ARG	2.3
49	CP	79	ARG	2.3
75	e	65	ARG	2.3
79	DT	56	GLY	2.3
8	BA	156	LYS	2.3
23	5	10	LYS	2.3
26	8	89	LYS	2.3
49	E	83	LYS	2.3
56	CW	68	LYS	2.3
78	h	166	PRO	2.3
80	P0	38	MET	2.3
10	p	95	LEU	2.3
14	t	9	LEU	2.3
22	2	16	GLN	2.3
22	BO	98	HIS	2.3
23	5	96	ILE	2.3
25	7	41	GLN	2.3
51	CR	207	LEU	2.3
82	L1	99	LEU	2.3
5	k	235	THR	2.3
6	l	167	VAL	2.3
6	AY	104	THR	2.3
8	n	169	ASP	2.3
19	y	69	ARG	2.3
29	AB	26	ARG	2.3
39	CF	25	VAL	2.3
51	G	244	GLY	2.3
58	CY	68	GLY	2.3
63	DD	8	THR	2.3
64	T	30	THR	2.3
64	DE	19	ARG	2.3
69	Y	99	PHE	2.3
69	Y	109	GLY	2.3
70	DK	20	ARG	2.3
71	a	60	PHE	2.3
71	DL	55	VAL	2.3
12	r	164	LYS	2.3
29	AB	34	LYS	2.3
49	E	171	LYS	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
19	y	132	PRO	2.3
41	AN	1	MET	2.3
82	ll	135	PRO	2.3
4	AW	58	LEU	2.3
31	AD	43	LEU	2.3
38	AK	8	LEU	2.3
51	G	41	SER	2.3
82	ll	103	LEU	2.3
4	j	88	ILE	2.3
4	j	137	ILE	2.3
65	U	22	ILE	2.3
7	m	37	VAL	2.3
7	m	129	PHE	2.3
10	BC	50	PHE	2.3
42	AO	22	ALA	2.3
50	F	130	ALA	2.3
51	CR	208	VAL	2.3
63	S	117	VAL	2.3
65	U	100	VAL	2.3
73	c	89	ARG	2.3
78	h	127	TYR	2.3
79	DT	62	PHE	2.3
82	Ll	180	VAL	2.3
4	j	215	ASN	2.3
4	AW	232	GLY	2.3
37	CD	80	LYS	2.3
45	i	130	GLU	2.3
10	p	168	PRO	2.3
48	CO	225	LEU	2.3
51	CR	15	PRO	2.3
77	DR	27	PRO	2.3
8	BA	134	ARG	2.3
14	t	15	ARG	2.3
37	CD	41	SER	2.3
49	E	120	ILE	2.3
54	J	70	GLN	2.3
58	N	14	GLN	2.3
64	DE	11	ARG	2.3
5	k	260	VAL	2.3
11	BD	64	HIS	2.3
11	BD	112	VAL	2.3
18	x	145	HIS	2.3

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
29	AB	145	VAL	2.3
30	AC	7	HIS	2.3
32	BY	11	TYR	2.3
56	CW	39	LYS	2.3
58	N	115	PHE	2.3
71	a	122	GLN	2.3
35	CB	70	LYS	2.3
51	G	107	GLY	2.3
67	W	110	GLY	2.3
79	DT	220	TRP	2.3
45	i	126	GLU	2.3
11	BD	7	ASP	2.3
18	x	149	THR	2.3
18	BK	129	THR	2.3
26	BS	111	ASN	2.3
29	AB	76	ASP	2.3
4	AW	71	LEU	2.3
4	AW	241	ARG	2.3
19	BL	157	PRO	2.3
53	CT	219	ARG	2.3
60	P	117	LEU	2.3
60	DA	117	LEU	2.3
11	q	72	LYS	2.3
15	u	130	LYS	2.3
19	y	139	ILE	2.3
6	AY	229	ALA	2.3
18	BK	88	VAL	2.3
19	BL	153	PHE	2.3
28	AA	71	PHE	2.3
44	AQ	3	LYS	2.3
50	F	149	LYS	2.3
52	H	29	ILE	2.3
52	CS	82	PHE	2.3
53	I	30	LYS	2.3
81	12	132	ILE	2.3
82	L1	92	LYS	2.3
10	BC	209	GLU	2.2
22	2	73	GLY	2.2
35	AH	63	ALA	2.3
46	B	1476	A	2.3
24	6	115	THR	2.2
29	AB	43	THR	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
50	F	56	THR	2.2
55	CV	18	ARG	2.2
59	O	88	LEU	2.2
66	V	122	ARG	2.2
69	DJ	7	LEU	2.2
71	DL	9	THR	2.2
10	p	147	LYS	2.2
11	q	174	LYS	2.2
28	BU	5	ILE	2.2
19	y	62	VAL	2.2
19	BL	11	VAL	2.2
31	BX	72	PHE	2.2
41	CH	44	GLN	2.2
53	I	102	VAL	2.2
60	P	141	TYR	2.2
8	n	58	GLU	2.2
74	DO	60	SER	2.2
80	p0	49	ALA	2.2
33	AF	106	ARG	2.2
37	CD	35	ARG	2.2
43	CJ	87	ARG	2.2
7	AZ	92	LEU	2.2
41	CH	27	LEU	2.2
77	g	55	LYS	2.2
18	x	129	THR	2.2
31	BX	87	PHE	2.2
35	CB	68	THR	2.2
56	L	5	PRO	2.2
58	CY	59	PRO	2.2
59	CZ	89	ILE	2.2
64	DE	117	ILE	2.2
6	l	208	VAL	2.2
10	BC	57	VAL	2.2
51	CR	45	VAL	2.2
4	j	27	ALA	2.2
16	BI	161	ALA	2.2
20	BM	152	GLU	2.2
49	CP	82	GLN	2.2
56	CW	95	TYR	2.2
57	CX	66	TYR	2.2
82	L1	19	TYR	2.2
11	BD	58	HIS	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
19	y	176	ARG	2.2
24	BQ	88	ARG	2.2
12	r	200	LEU	2.2
41	CH	45	LEU	2.2
48	D	61	LEU	2.2
56	CW	51	LYS	2.2
63	S	13	LYS	2.2
65	DF	131	LEU	2.2
72	b	69	LEU	2.2
77	DR	39	LEU	2.2
51	CR	19	MET	2.2
13	BF	59	ILE	2.2
14	t	85	ILE	2.2
57	M	86	ILE	2.2
36	CC	57	VAL	2.2
70	Z	124	VAL	2.2
6	l	64	GLU	2.2
9	o	105	ARG	2.2
10	BC	90	GLN	2.2
50	F	125	ARG	2.2
55	CV	32	GLN	2.2
56	L	126	ARG	2.2
62	R	115	TYR	2.2
77	g	2	GLY	2.2
4	AW	28	LYS	2.2
19	BL	159	LYS	2.2
32	AE	60	LYS	2.2
32	BY	30	LYS	2.2
10	BC	170	LEU	2.2
24	BQ	17	LEU	2.2
55	K	96	LEU	2.2
57	CX	40	LEU	2.2
63	DD	51	LEU	2.2
69	DJ	94	LEU	2.2
82	L1	116	LEU	2.2
26	BS	63	ILE	2.2
33	BZ	97	ILE	2.2
48	D	140	ILE	2.2
61	DB	22	PHE	2.2
4	AW	199	THR	2.2
7	m	28	THR	2.2
51	G	25	GLY	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
56	L	102	GLU	2.2
58	N	45	PRO	2.2
79	AR	88	ARG	2.2
20	BM	85	LYS	2.2
23	5	14	LYS	2.2
44	AQ	28	LYS	2.2
49	E	145	GLN	2.2
54	J	167	GLN	2.2
55	K	53	GLN	2.2
74	DO	53	ALA	2.2
19	BL	5	HIS	2.2
64	DE	57	LEU	2.2
18	x	66	SER	2.2
6	AY	248	PHE	2.2
46	CM	1480	G	2.2
5	k	244	ARG	2.2
22	2	80	VAL	2.2
26	8	48	ARG	2.2
35	AH	35	VAL	2.2
38	AK	56	ARG	2.2
39	CF	24	ILE	2.2
49	E	135	ARG	2.2
70	DK	72	VAL	2.2
6	l	166	ALA	2.2
10	BC	135	TYR	2.2
32	AE	101	LYS	2.2
36	CC	102	GLU	2.2
44	AQ	27	LYS	2.2
48	CO	45	LYS	2.2
60	DA	76	LYS	2.2
63	DD	25	LYS	2.2
79	AR	96	GLU	2.2
82	L1	102	LYS	2.2
19	y	163	PRO	2.2
27	BT	120	GLN	2.2
37	AJ	8	ALA	2.2
79	AR	250	ALA	2.2
6	AY	237	LEU	2.2
55	K	185	CYS	2.2
60	DA	16	LEU	2.2
16	v	194	HIS	2.2
6	l	194	LYS	2.2

*Continued on next page...*

*Continued from previous page...*

Mol	Chain	Res	Type	RSRZ
8	n	51	VAL	2.2
11	q	172	ILE	2.2
12	r	191	ILE	2.2
14	BG	26	PHE	2.2
21	BN	143	PHE	2.2
33	BZ	33	TRP	2.2
19	BL	150	VAL	2.2
24	BQ	101	VAL	2.2
32	AE	35	ILE	2.2
67	DH	83	MET	2.2
33	AF	12	LYS	2.2
43	AP	61	LYS	2.2
62	R	77	LYS	2.2
69	Y	63	VAL	2.2
73	c	38	ARG	2.2
79	DT	63	LYS	2.2
1	AS	2451	C	2.2
1	AS	2452	G	2.2
36	CC	70	TYR	2.2
18	BK	118	GLN	2.2
56	CW	58	ASP	2.2
38	CE	13	ASN	2.2
63	DD	31	ASN	2.2
73	c	31	PRO	2.2
59	O	45	LEU	2.2
6	l	251	TRP	2.2
14	BG	88	LYS	2.2
20	z	98	ARG	2.2
29	BV	59	ARG	2.2
36	AI	48	ARG	2.2
52	CS	98	MET	2.2
55	K	67	TRP	2.2
64	T	60	ARG	2.2
8	BA	90	VAL	2.2
46	CM	1357	A	2.2
71	DL	99	LYS	2.2
73	DN	37	LYS	2.2
79	AR	114	VAL	2.2
38	CE	23	GLY	2.2
79	DT	55	TYR	2.2
9	BB	103	LEU	2.2
16	v	10	LEU	2.2

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
64	DE	42	GLN	2.2
66	V	132	LEU	2.2
72	b	91	PRO	2.2
51	G	96	ASN	2.2
55	CV	74	ARG	2.2
56	L	3	ARG	2.2
56	L	17	ARG	2.2
64	T	72	LYS	2.2
73	c	93	LYS	2.2
75	DP	22	ARG	2.2
4	AW	63	PHE	2.2
79	DT	97	THR	2.2
4	j	113	VAL	2.2
4	AW	77	ILE	2.2
32	AE	42	HIS	2.2
47	C	195	TRP	2.2
69	DJ	27	ILE	2.2
1	1	1019	U	2.2
21	0	60	SER	2.2
28	BU	20	GLY	2.2
78	DS	169	GLY	2.2
12	r	127	ALA	2.2
46	CM	1476	A	2.2
26	8	82	LEU	2.2
14	t	68	LYS	2.2
26	BS	66	PRO	2.2
28	BU	70	PRO	2.2
29	BV	7	LYS	2.2
40	AM	28	ARG	2.2
55	K	201	ARG	2.2
56	L	93	LEU	2.2
56	L	105	LEU	2.2
71	DL	18	LEU	2.2
42	CI	8	LYS	2.2
60	DA	137	PRO	2.2
73	DN	3	LYS	2.2
74	d	81	ARG	2.2
10	BC	76	ILE	2.2
79	AR	131	THR	2.2
11	BD	125	GLU	2.2
14	t	13	HIS	2.2
79	DT	307	ILE	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
82	l1	85	MET	2.2
10	BC	183	GLY	2.2
16	BI	191	TRP	2.2
58	N	34	TRP	2.2
70	Z	51	GLY	2.2
12	r	60	LEU	2.2
23	BP	14	LYS	2.2
28	BU	56	LYS	2.2
30	BW	38	LYS	2.2
36	CC	21	LEU	2.2
39	CF	48	SER	2.2
43	CJ	15	LYS	2.2
45	CL	96	LYS	2.2
63	S	46	LYS	2.2
73	c	67	LEU	2.2
73	DN	19	LYS	2.2
77	g	42	ARG	2.2
5	k	269	GLN	2.2
4	AW	76	PHE	2.2
46	CM	1676	A	2.2
10	p	176	VAL	2.2
29	BV	6	THR	2.2
29	BV	15	VAL	2.2
41	CH	3	GLU	2.2
47	CN	46	ASN	2.2
52	CS	137	ILE	2.2
55	CV	95	THR	2.2
78	DS	174	MET	2.2
16	BI	202	TYR	2.2
26	8	108	LEU	2.2
28	AA	9	LYS	2.2
37	CD	29	LYS	2.2
42	AO	21	ARG	2.2
50	CQ	174	ARG	2.2
79	AR	248	TRP	2.2
6	l	185	SER	2.2
20	z	2	ALA	2.2
29	AB	75	LEU	2.2
54	CU	54	LEU	2.2
55	CV	198	TYR	2.2
59	CZ	88	LEU	2.2
64	T	21	TYR	2.2

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
65	DF	116	LEU	2.2
68	X	12	TYR	2.2
51	CR	41	SER	2.2
4	AW	217	GLN	2.2
19	BL	172	PHE	2.2
29	AB	29	PRO	2.2
29	BV	2	PRO	2.2
53	CT	27	PHE	2.2
54	CU	57	PHE	2.2
12	r	50	ILE	2.2
49	E	115	GLU	2.2
57	M	22	VAL	2.2
67	W	113	VAL	2.2
69	DJ	63	VAL	2.2
69	DJ	85	ASP	2.2
80	P0	58	MET	2.2
7	m	294	LYS	2.2
9	BB	110	ASN	2.2
23	BP	49	ASN	2.2
29	AB	12	ARG	2.2
30	AC	58	ARG	2.2
42	CI	7	LYS	2.2
51	CR	221	ARG	2.2
52	CS	112	ARG	2.2
55	CV	44	HIS	2.2
58	CY	63	THR	2.2
60	P	124	ARG	2.2
60	P	139	TRP	2.1
62	R	5	THR	2.2
66	V	139	THR	2.2
13	BF	40	LEU	2.1
17	BJ	20	LEU	2.1
50	F	121	TYR	2.1
56	L	164	TYR	2.1
56	CW	60	LEU	2.1
18	BK	81	ALA	2.1
28	AA	110	ALA	2.1
38	CE	50	ALA	2.1
53	CT	224	ALA	2.1
60	P	40	TYR	2.1
65	DF	42	TYR	2.1
6	l	256	PHE	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
62	DC	51	SER	2.1
79	DT	122	GLN	2.1
80	p0	102	SER	2.1
4	AW	198	LYS	2.1
10	BC	55	GLU	2.1
14	BG	21	ARG	2.1
16	v	143	ARG	2.1
19	y	4	ASP	2.1
19	y	113	ARG	2.1
19	BL	82	VAL	2.1
24	6	110	LYS	2.1
36	CC	18	GLU	2.1
45	i	61	GLU	2.1
48	D	176	VAL	2.1
50	CQ	201	ARG	2.1
51	CR	162	ILE	2.1
56	L	136	VAL	2.1
71	a	35	VAL	2.1
79	AR	175	VAL	2.1
79	DT	27	PRO	2.1
70	Z	56	LYS	2.1
37	AJ	90	THR	2.1
51	CR	157	ASN	2.1
54	CU	149	LEU	2.1
60	DA	149	LEU	2.1
36	CC	87	ALA	2.1
6	l	16	GLN	2.1
7	m	65	VAL	2.1
16	v	111	SER	2.1
36	AI	62	GLN	2.1
16	BI	44	ARG	2.1
28	AA	93	LYS	2.1
36	CC	44	ILE	2.1
36	CC	90	ARG	2.1
37	CD	24	LYS	2.1
39	AL	30	LYS	2.1
49	E	134	ILE	2.1
49	E	196	SER	2.1
49	CP	96	VAL	2.1
52	CS	168	VAL	2.1
54	J	72	ARG	2.1
54	CU	17	VAL	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
64	T	38	ILE	2.1
29	AB	116	GLY	2.1
32	AE	70	MET	2.1
40	AM	32	ASP	2.1
50	F	170	ASP	2.1
82	L1	174	MET	2.1
54	J	24	LEU	2.1
10	p	79	PHE	2.1
16	v	59	PHE	2.1
24	BQ	95	PHE	2.1
32	AE	100	THR	2.1
76	DQ	23	HIS	2.1
79	AR	89	THR	2.1
10	p	78	GLN	2.1
30	AC	18	ARG	2.1
58	CY	29	LYS	2.1
63	DD	126	LYS	2.1
69	Y	57	ARG	2.1
15	BH	115	VAL	2.1
16	v	35	VAL	2.1
10	p	259	SER	2.1
20	BM	115	ILE	2.1
36	AI	58	ILE	2.1
50	F	116	ILE	2.1
56	CW	148	VAL	2.1
63	DD	33	SER	2.1
69	DJ	14	ILE	2.1
1	AS	1235	C	2.1
5	k	12	GLY	2.1
19	BL	2	GLY	2.1
19	BL	156	GLY	2.1
49	E	197	GLY	2.1
67	DH	109	PRO	2.1
82	L1	61	PRO	2.1
4	j	102	LEU	2.1
32	BY	50	LEU	2.1
62	DC	22	LEU	2.1
82	l1	177	ASP	2.1
29	BV	48	TYR	2.1
16	BI	149	ASN	2.1
33	AF	44	ARG	2.1
52	CS	109	LYS	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
57	M	12	HIS	2.1
60	DA	112	LYS	2.1
63	DD	128	PHE	2.1
69	DJ	71	LYS	2.1
70	Z	25	ALA	2.1
70	DK	110	ARG	2.1
71	a	130	ALA	2.1
80	P0	103	ASN	2.1
16	v	115	VAL	2.1
27	9	56	VAL	2.1
54	J	64	GLN	2.1
61	DB	116	VAL	2.1
79	DT	287	ILE	2.1
7	m	146	LEU	2.1
22	2	27	LEU	2.1
35	CB	17	SER	2.1
40	CG	3	SER	2.1
48	CO	110	LEU	2.1
53	I	75	LEU	2.1
63	S	37	LEU	2.1
1	AS	1550	U	2.1
4	j	69	TYR	2.1
7	AZ	273	ARG	2.1
20	z	133	LYS	2.1
27	9	115	ARG	2.1
67	W	67	ARG	2.1
79	AR	282	LYS	2.1
18	x	133	HIS	2.1
8	n	108	GLU	2.1
4	j	77	ILE	2.1
4	AW	233	GLN	2.1
10	p	141	VAL	2.1
36	CC	109	ILE	2.1
48	CO	121	VAL	2.1
53	I	16	ILE	2.1
53	CT	16	ILE	2.1
55	K	102	VAL	2.1
60	DA	11	ILE	2.1
4	j	22	LEU	2.1
54	CU	73	LEU	2.1
56	L	30	LEU	2.1
81	12	106	LEU	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
4	j	247	ARG	2.1
20	z	128	LYS	2.1
25	BR	93	ARG	2.1
27	BT	32	SER	2.1
28	BU	107	ARG	2.1
37	CD	69	LYS	2.1
51	CR	257	ARG	2.1
55	K	17	LYS	2.1
56	CW	29	LYS	2.1
58	CY	24	LYS	2.1
73	DN	15	ARG	2.1
58	CY	97	TYR	2.1
28	AA	102	GLU	2.1
27	9	99	ILE	2.1
29	AB	123	VAL	2.1
35	AH	34	HIS	2.1
46	B	705	G	2.1
66	DG	62	ALA	2.1
79	AR	84	ALA	2.1
16	v	132	VAL	2.1
17	w	148	TRP	2.1
50	CQ	218	VAL	2.1
52	CS	95	ASN	2.1
52	CS	111	VAL	2.1
53	CT	102	VAL	2.1
56	CW	102	GLU	2.1
57	M	42	VAL	2.1
76	f	45	GLU	2.1
79	DT	178	TRP	2.1
5	k	139	THR	2.1
39	AL	66	GLN	2.1
48	CO	220	GLN	2.1
71	a	25	ILE	2.1
78	DS	155	ASN	2.1
16	BI	20	ARG	2.1
17	w	52	LYS	2.1
24	6	66	LYS	2.1
26	BS	45	LYS	2.1
29	AB	93	LYS	2.1
38	AK	11	ARG	2.1
41	CH	6	LEU	2.1
50	CQ	183	LEU	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
73	c	70	LYS	2.1
73	DN	74	CYS	2.1
12	r	159	PHE	2.1
13	s	98	ALA	2.1
27	BT	43	TYR	2.1
36	AI	82	ALA	2.1
66	DG	18	TYR	2.1
45	i	123	GLU	2.1
5	k	274	HIS	2.1
6	AY	250	ILE	2.1
51	CR	70	VAL	2.1
56	L	52	ILE	2.1
4	AW	68	LYS	2.1
4	AW	192	LYS	2.1
7	m	34	LYS	2.1
9	o	156	LYS	2.1
1	AS	1552	C	2.1
4	AW	3	ARG	2.1
13	s	80	LEU	2.1
19	BL	147	ARG	2.1
72	DM	46	LYS	2.1
28	AA	82	PRO	2.1
56	CW	15	PRO	2.1
4	j	229	ALA	2.1
16	v	81	TYR	2.1
22	BO	56	TYR	2.1
24	BQ	96	GLU	2.1
50	F	210	ALA	2.1
79	AR	154	ALA	2.1
79	DT	83	SER	2.1
4	j	72	ARG	2.1
4	AW	188	LYS	2.1
16	v	191	TRP	2.1
22	2	76	ILE	2.1
25	7	28	ILE	2.1
27	BT	103	LYS	2.1
28	BU	67	LYS	2.1
50	CQ	185	ILE	2.1
57	M	33	ASP	2.1
32	BY	16	HIS	2.1
43	AP	90	HIS	2.1
52	H	108	LEU	2.1

*Continued on next page...*



*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
52	H	156	ARG	2.1
73	c	41	ILE	2.1
76	f	50	ILE	2.1
6	AY	253	GLN	2.1
10	BC	47	LEU	2.1
15	BH	119	GLN	2.1
25	7	20	LEU	2.1
43	CJ	49	GLY	2.1
49	E	155	GLY	2.1
63	DD	129	GLY	2.1
65	U	116	LEU	2.1
69	DJ	65	LEU	2.1
6	l	214	ASN	2.1
46	B	1680	A	2.1
78	h	177	MET	2.1
50	F	157	PHE	2.1
51	G	175	PHE	2.1
57	CX	27	PHE	2.1
11	q	86	TYR	2.1
46	B	670	C	2.1
8	n	64	VAL	2.1
10	p	133	VAL	2.1
18	x	36	ILE	2.1
21	BN	12	ARG	2.1
28	AA	27	LYS	2.1
41	CH	17	LYS	2.1
50	F	85	ILE	2.1
52	H	56	VAL	2.1
58	N	96	LYS	2.1
70	DK	49	ALA	2.1
69	DJ	103	ILE	2.1
75	e	25	VAL	2.1
79	AR	6	VAL	2.1
82	ll	195	LYS	2.1
12	r	152	LEU	2.1
16	BI	150	TRP	2.1
27	BT	100	HIS	2.1
58	N	91	LEU	2.1
59	CZ	59	LEU	2.1
61	Q	132	LEU	2.1
70	DK	33	LEU	2.1
25	BR	32	GLN	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
79	DT	278	GLY	2.1
51	CR	182	MET	2.1
14	BG	6	ASN	2.1
35	CB	56	THR	2.1
39	CF	28	ASN	2.1
76	f	52	PHE	2.1
82	L1	214	PHE	2.1
78	DS	146	THR	2.1
14	t	45	LYS	2.1
14	t	131	LYS	2.1
22	2	53	PRO	2.1
49	E	234	PRO	2.1
52	CS	26	ALA	2.1
52	CS	107	LYS	2.1
63	S	109	ALA	2.1
71	a	16	PRO	2.1
78	DS	161	ARG	2.1
81	12	114	ARG	2.1
4	AW	195	SER	2.1
25	7	49	ILE	2.1
33	AF	109	ILE	2.1
56	L	134	ILE	2.1
1	1	2089	G	2.1
7	m	212	LEU	2.1
8	n	54	LEU	2.1
37	AJ	49	LEU	2.1
50	CQ	73	LEU	2.1
56	CW	24	LEU	2.1
79	DT	289	LEU	2.1
6	l	253	GLN	2.1
29	BV	69	TRP	2.1
35	AH	64	GLN	2.1
38	AK	49	TRP	2.1
48	CO	29	TRP	2.1
62	DC	54	MET	2.1
64	T	95	HIS	2.1
76	f	14	PHE	2.1
14	t	88	LYS	2.1
1	AS	1566	U	2.1
10	BC	146	ASN	2.1
34	AG	20	LYS	2.1
51	G	108	LYS	2.1

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	G	157	ASN	2.1
51	G	200	LYS	2.1
82	ll	207	LYS	2.1
10	p	91	ALA	2.1
14	t	87	PRO	2.1
14	BG	50	PRO	2.1
18	x	81	ALA	2.1
22	2	84	TYR	2.1
22	2	100	ALA	2.1
33	AF	121	THR	2.1
52	CS	147	THR	2.1
49	E	96	VAL	2.1
6	l	216	ILE	2.1
11	BD	161	ILE	2.1
13	s	122	ILE	2.1
4	j	110	GLY	2.1
4	AW	183	GLY	2.1
6	AY	151	LEU	2.1
24	6	77	ILE	2.1
27	BT	50	ILE	2.1
46	CM	367	A	2.1
53	I	109	LEU	2.1
56	CW	59	LEU	2.1
60	P	88	LEU	2.1
65	U	45	LEU	2.1
65	DF	54	LEU	2.1
69	DJ	75	ILE	2.1
78	DS	145	LEU	2.1
27	BT	11	SER	2.1
64	T	123	SER	2.1
79	AR	49	GLY	2.1
18	x	140	GLN	2.0
27	BT	3	LYS	2.0
73	DN	17	HIS	2.1
35	CB	88	ARG	2.0
37	AJ	98	ARG	2.0
62	R	44	ARG	2.0
82	L1	78	LYS	2.0
5	k	93	VAL	2.0
6	l	172	ALA	2.0
51	CR	220	THR	2.0
59	O	125	ASN	2.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
60	DA	148	ALA	2.0
76	f	34	TYR	2.0
35	CB	15	THR	2.0
77	g	9	ALA	2.0
4	j	150	LEU	2.0
6	l	239	LEU	2.0
10	BC	167	LEU	2.0
18	x	68	GLY	2.0
26	8	40	LEU	2.0
26	BS	102	LEU	2.0
51	G	180	LEU	2.0
61	DB	110	ILE	2.0
68	X	23	ILE	2.0
27	9	123	GLY	2.0
69	DJ	104	LEU	2.0
36	CC	91	LYS	2.0
14	BG	41	ARG	2.0
18	x	61	ARG	2.0
38	CE	78	PHE	2.0
44	CK	23	ARG	2.0
49	E	47	SER	2.0
57	M	38	ARG	2.0
58	N	116	ARG	2.0
62	DC	17	PHE	2.0
50	CQ	192	ASP	2.0
55	K	6	ASP	2.0
66	V	129	GLN	2.0
77	g	36	MET	2.0
9	o	128	ALA	2.0
9	BB	84	VAL	2.0
30	BW	27	TYR	2.0
33	AF	94	ALA	2.0
47	C	14	ALA	2.0
50	CQ	135	VAL	2.0
80	P0	28	VAL	2.0
10	BC	215	LEU	2.0
18	x	143	PRO	2.0
22	2	25	ILE	2.0
27	9	109	LEU	2.0
55	CV	87	ASN	2.0
70	Z	42	PRO	2.0
74	DO	45	THR	2.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
79	AR	218	ILE	2.0
46	CM	714	G	2.0
51	CR	37	LYS	2.0
54	J	134	LYS	2.0
67	DH	67	ARG	2.0
7	AZ	4	GLN	2.0
13	s	41	SER	2.0
17	w	123	GLN	2.0
71	a	26	ASP	2.0
71	DL	26	ASP	2.0
80	P0	13	SER	2.0
80	P0	20	GLU	2.0
18	BK	47	TYR	2.0
37	CD	52	TYR	2.0
48	CO	137	VAL	2.0
51	CR	136	VAL	2.0
53	CT	5	ILE	2.0
57	CX	45	ALA	2.0
63	DD	118	ALA	2.0
66	DG	37	VAL	2.0
5	k	385	LYS	2.0
9	BB	139	LEU	2.0
14	t	31	LYS	2.0
23	BP	56	ILE	2.0
27	9	48	LEU	2.0
37	AJ	71	LEU	2.0
56	L	51	LYS	2.0
60	P	107	LYS	2.0
61	Q	78	LEU	2.0
50	F	134	GLY	2.0
53	I	33	GLY	2.0
62	DC	87	PRO	2.0
64	T	49	LYS	2.0
6	l	200	PHE	2.0
18	BK	60	PHE	2.0
24	BQ	86	ARG	2.0
69	Y	37	PHE	2.0
70	DK	19	ARG	2.0
27	9	26	GLU	2.0
43	AP	27	GLN	2.0
66	V	115	GLU	2.0
16	v	150	TRP	2.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
16	BI	194	HIS	2.0
4	AW	168	VAL	2.0
10	p	164	VAL	2.0
22	BO	74	VAL	2.0
24	BQ	51	ALA	2.0
36	AI	74	LYS	2.0
58	N	7	VAL	2.0
50	F	73	LEU	2.0
51	CR	249	ILE	2.0
52	H	194	LEU	2.0
53	CT	76	LEU	2.0
58	CY	47	ALA	2.0
6	AY	70	ARG	2.0
46	B	777	A	2.0
54	J	133	GLY	2.0
55	K	30	GLY	2.0
57	M	77	ARG	2.0
70	Z	73	ARG	2.0
71	DL	20	ARG	2.0
19	y	184	PHE	2.0
26	8	35	PRO	2.0
33	BZ	52	PRO	2.0
5	AX	259	ASN	2.0
26	BS	112	THR	2.0
35	AH	18	ASN	2.0
44	AQ	63	THR	2.0
51	CR	231	GLU	2.0
60	DA	4	MET	2.0
69	DJ	80	ASN	2.0
44	CK	33	GLN	2.0
74	DO	51	GLN	2.0
20	BM	114	LYS	2.0
29	AB	11	HIS	2.0
50	CQ	40	VAL	2.0
59	O	116	VAL	2.0
61	DB	25	VAL	2.0
63	DD	11	LYS	2.0
71	a	99	LYS	2.0
82	L1	152	LYS	2.0
4	AW	112	ILE	2.0
6	AY	4	ARG	2.0
7	m	109	ALA	2.0

*Continued on next page...*

*Continued from previous page...*

<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
10	p	144	ILE	2.0
14	BG	116	LEU	2.0
31	BX	103	LEU	2.0
35	CB	38	ALA	2.0
54	J	6	LEU	2.0
55	K	56	ARG	2.0
56	L	69	ARG	2.0
52	H	75	GLY	2.0
63	S	55	GLY	2.0
81	12	155	ILE	2.0
81	12	158	GLY	2.0
6	l	248	PHE	2.0
18	BK	59	PRO	2.0
54	CU	109	PRO	2.0
1	AS	2943	A	2.0
5	AX	142	LYS	2.0
18	BK	149	THR	2.0
37	CD	65	GLU	2.0
17	BJ	123	GLN	2.0
37	CD	44	LYS	2.0
49	E	152	LYS	2.0
54	J	144	LYS	2.0
54	CU	129	THR	2.0
58	N	63	THR	2.0
73	DN	12	LYS	2.0
4	AW	98	VAL	2.0
5	k	251	CYS	2.0
79	AR	70	GLN	2.0
10	BC	143	LEU	2.0
17	w	20	LEU	2.0
24	BQ	118	VAL	2.0
36	CC	66	VAL	2.0
45	CL	119	VAL	2.0
53	CT	162	VAL	2.0
55	K	195	LEU	2.0
58	CY	129	ARG	2.0
64	DE	78	ARG	2.0
69	Y	26	LEU	2.0
72	DM	101	TYR	2.0

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

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

## 6.3 Carbohydrates [i](#)

There are no monosaccharides in this entry.

## 6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95<sup>th</sup> 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 <sup>2</sup> )	Q<0.9
83	MG	AS	3757	1/1	-0.22	0.71	80,80,80,80	0
83	MG	AS	3451	1/1	0.11	0.33	67,67,67,67	0
83	MG	B	1929	1/1	0.15	0.27	112,112,112,112	0
83	MG	B	1844	1/1	0.18	0.29	72,72,72,72	0
86	ZN	DO	101	1/1	0.26	0.21	225,225,225,225	0
83	MG	AS	3724	1/1	0.36	0.28	69,69,69,69	0
83	MG	1	3883	1/1	0.40	0.18	76,76,76,76	0
83	MG	B	1837	1/1	0.40	0.14	321,321,321,321	0
83	MG	1	3629	1/1	0.42	0.41	156,156,156,156	0
83	MG	B	1889	1/1	0.43	0.22	73,73,73,73	0
83	MG	1	3518	1/1	0.43	0.68	79,79,79,79	0
86	ZN	h	201	1/1	0.45	0.14	216,216,216,216	0
83	MG	1	3691	1/1	0.46	0.58	80,80,80,80	0
83	MG	B	1814	1/1	0.47	0.20	57,57,57,57	0
83	MG	AS	3649	1/1	0.48	0.97	66,66,66,66	0
83	MG	AS	3776	1/1	0.48	0.31	72,72,72,72	0
83	MG	AS	3764	1/1	0.49	0.23	76,76,76,76	0
83	MG	1	3604	1/1	0.50	0.48	70,70,70,70	0
83	MG	1	3890	1/1	0.51	0.53	76,76,76,76	0
83	MG	CM	1945	1/1	0.51	0.16	61,61,61,61	0
83	MG	0	203	1/1	0.52	0.51	63,63,63,63	0
83	MG	B	1923	1/1	0.52	0.20	62,62,62,62	0
83	MG	1	3862	1/1	0.53	0.15	72,72,72,72	0
83	MG	B	1817	1/1	0.54	0.20	82,82,82,82	0
83	MG	AS	3598	1/1	0.54	0.16	129,129,129,129	0
83	MG	9	202	1/1	0.54	2.34	72,72,72,72	0
83	MG	1	3588	1/1	0.54	0.82	73,73,73,73	0

Continued on next page...



*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
83	MG	B	1936	1/1	0.54	0.98	98,98,98,98	0
83	MG	CM	1926	1/1	0.55	0.31	58,58,58,58	0
83	MG	1	3657	1/1	0.56	0.22	62,62,62,62	0
83	MG	1	3934	1/1	0.57	0.18	89,89,89,89	0
83	MG	AS	3670	1/1	0.57	0.44	73,73,73,73	0
86	ZN	d	101	1/1	0.57	0.35	273,273,273,273	0
83	MG	BS	201	1/1	0.57	1.14	76,76,76,76	0
83	MG	CM	1836	1/1	0.57	0.23	76,76,76,76	0
83	MG	k	404	1/1	0.58	0.20	72,72,72,72	0
83	MG	B	1914	1/1	0.58	0.42	87,87,87,87	0
83	MG	AS	3758	1/1	0.58	0.33	61,61,61,61	0
83	MG	AF	202	1/1	0.58	0.68	71,71,71,71	0
83	MG	CM	1948	1/1	0.59	0.29	76,76,76,76	0
83	MG	AS	3463	1/1	0.60	0.84	65,65,65,65	0
83	MG	1	3566	1/1	0.60	0.14	61,61,61,61	0
83	MG	DJ	202	1/1	0.60	0.18	74,74,74,74	0
83	MG	B	1960	1/1	0.61	0.17	75,75,75,75	0
83	MG	AS	3775	1/1	0.61	0.46	66,66,66,66	0
83	MG	1	3836	1/1	0.61	0.20	56,56,56,56	0
83	MG	B	1959	1/1	0.61	0.20	73,73,73,73	0
83	MG	AS	3634	1/1	0.62	0.41	79,79,79,79	0
83	MG	1	3670	1/1	0.62	0.28	52,52,52,52	0
83	MG	R	201	1/1	0.63	0.21	78,78,78,78	0
83	MG	AS	3630	1/1	0.63	0.51	87,87,87,87	0
83	MG	1	3722	1/1	0.63	0.41	51,51,51,51	0
83	MG	u	201	1/1	0.63	0.22	56,56,56,56	0
83	MG	1	3940	1/1	0.64	0.30	77,77,77,77	0
83	MG	1	3419	1/1	0.64	1.10	69,69,69,69	0
83	MG	1	3910	1/1	0.65	0.20	24,24,24,24	0
83	MG	AU	209	1/1	0.65	0.83	72,72,72,72	0
83	MG	AS	3636	1/1	0.65	0.22	71,71,71,71	0
83	MG	AS	3643	1/1	0.65	0.24	56,56,56,56	0
83	MG	1	3919	1/1	0.65	0.14	69,69,69,69	0
83	MG	1	3840	1/1	0.65	0.18	60,60,60,60	0
83	MG	AS	3459	1/1	0.65	0.22	47,47,47,47	0
83	MG	1	3466	1/1	0.65	0.18	37,37,37,37	0
83	MG	AS	3507	1/1	0.65	0.15	63,63,63,63	0
83	MG	B	1956	1/1	0.65	0.15	74,74,74,74	0
83	MG	4	207	1/1	0.65	0.72	52,52,52,52	0
83	MG	AS	3744	1/1	0.66	0.42	68,68,68,68	0
83	MG	1	3547	1/1	0.66	0.20	49,49,49,49	0
83	MG	1	3798	1/1	0.66	0.22	96,96,96,96	0

*Continued on next page...*

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3541	1/1	0.66	0.23	60,60,60,60	0
83	MG	4	201	1/1	0.67	0.11	72,72,72,72	0
83	MG	1	3929	1/1	0.67	0.24	77,77,77,77	0
83	MG	1	3654	1/1	0.68	0.86	70,70,70,70	0
83	MG	B	1919	1/1	0.68	0.33	83,83,83,83	0
83	MG	1	3650	1/1	0.68	0.37	82,82,82,82	0
83	MG	DB	204	1/1	0.68	0.20	57,57,57,57	0
83	MG	1	3936	1/1	0.69	0.16	61,61,61,61	0
83	MG	1	3519	1/1	0.69	0.21	60,60,60,60	0
83	MG	AS	3654	1/1	0.69	1.27	66,66,66,66	0
83	MG	B	1893	1/1	0.69	0.19	58,58,58,58	0
83	MG	1	3897	1/1	0.69	0.34	66,66,66,66	0
83	MG	BB	303	1/1	0.69	0.22	48,48,48,48	0
83	MG	B	1942	1/1	0.69	0.21	75,75,75,75	0
83	MG	B	1943	1/1	0.69	0.14	94,94,94,94	0
83	MG	AS	3768	1/1	0.70	0.46	74,74,74,74	0
83	MG	AS	3753	1/1	0.70	1.53	75,75,75,75	0
83	MG	1	3700	1/1	0.70	0.23	44,44,44,44	0
83	MG	1	3716	1/1	0.70	1.72	70,70,70,70	0
83	MG	j	302	1/1	0.70	0.55	59,59,59,59	0
83	MG	Z	202	1/1	0.71	0.24	67,67,67,67	0
83	MG	B	1941	1/1	0.71	0.18	75,75,75,75	0
83	MG	1	3508	1/1	0.71	0.11	42,42,42,42	0
83	MG	BI	301	1/1	0.71	0.77	61,61,61,61	0
83	MG	AS	3701	1/1	0.71	1.48	97,97,97,97	0
83	MG	B	1972	1/1	0.71	0.19	84,84,84,84	0
83	MG	B	1958	1/1	0.71	0.89	76,76,76,76	0
83	MG	CM	1879	1/1	0.72	0.17	61,61,61,61	0
83	MG	CM	1882	1/1	0.72	0.11	49,49,49,49	0
83	MG	B	1841	1/1	0.72	0.24	46,46,46,46	0
83	MG	AS	3709	1/1	0.72	0.42	60,60,60,60	0
83	MG	1	3925	1/1	0.72	0.12	75,75,75,75	0
83	MG	AH	202	1/1	0.72	0.14	58,58,58,58	0
83	MG	1	3779	1/1	0.72	0.12	51,51,51,51	0
83	MG	1	3432	1/1	0.72	0.27	65,65,65,65	0
83	MG	AS	3529	1/1	0.72	0.16	60,60,60,60	0
83	MG	1	3841	1/1	0.72	0.22	72,72,72,72	0
83	MG	1	3814	1/1	0.73	0.37	56,56,56,56	0
83	MG	AS	3747	1/1	0.73	0.10	69,69,69,69	0
83	MG	AS	3528	1/1	0.73	0.25	64,64,64,64	0
83	MG	CO	301	1/1	0.73	0.21	46,46,46,46	0
83	MG	1	3665	1/1	0.73	0.25	54,54,54,54	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AC	101	1/1	0.73	1.18	57,57,57,57	0
83	MG	1	3788	1/1	0.73	0.22	56,56,56,56	0
83	MG	1	3706	1/1	0.73	0.19	47,47,47,47	0
83	MG	1	3802	1/1	0.73	0.51	49,49,49,49	0
83	MG	AS	3777	1/1	0.74	0.28	38,38,38,38	0
83	MG	1	3784	1/1	0.74	0.11	63,63,63,63	0
83	MG	1	3918	1/1	0.74	0.45	59,59,59,59	0
83	MG	1	3952	1/1	0.74	0.16	59,59,59,59	0
83	MG	k	406	1/1	0.74	1.81	62,62,62,62	0
83	MG	1	3953	1/1	0.74	0.19	62,62,62,62	0
83	MG	1	3806	1/1	0.74	0.20	54,54,54,54	0
83	MG	I	301	1/1	0.74	0.48	113,113,113,113	0
83	MG	CM	1917	1/1	0.74	0.45	59,59,59,59	0
83	MG	1	3835	1/1	0.75	0.14	66,66,66,66	0
83	MG	1	3866	1/1	0.75	2.24	86,86,86,86	0
83	MG	CM	1934	1/1	0.75	0.16	40,40,40,40	0
83	MG	AS	3714	1/1	0.75	0.14	35,35,35,35	0
83	MG	AS	3539	1/1	0.75	0.15	50,50,50,50	0
83	MG	CM	1822	1/1	0.75	0.39	64,64,64,64	0
83	MG	AS	3556	1/1	0.75	0.16	56,56,56,56	0
83	MG	CM	1870	1/1	0.75	0.17	54,54,54,54	0
83	MG	1	3684	1/1	0.75	0.21	69,69,69,69	0
83	MG	x	202	1/1	0.75	0.19	32,32,32,32	0
83	MG	CM	1897	1/1	0.75	0.47	69,69,69,69	0
83	MG	w	302	1/1	0.76	0.38	40,40,40,40	0
83	MG	B	1920	1/1	0.76	0.13	62,62,62,62	0
83	MG	1	3914	1/1	0.76	0.18	75,75,75,75	0
83	MG	1	3451	1/1	0.76	0.20	41,41,41,41	0
83	MG	CM	1821	1/1	0.76	0.19	57,57,57,57	0
83	MG	1	3904	1/1	0.76	0.29	61,61,61,61	0
83	MG	AS	3478	1/1	0.76	0.15	73,73,73,73	0
83	MG	B	1899	1/1	0.76	0.20	73,73,73,73	0
83	MG	AS	3727	1/1	0.76	0.16	69,69,69,69	0
83	MG	1	3514	1/1	0.76	0.22	79,79,79,79	0
83	MG	AT	204	1/1	0.76	0.29	74,74,74,74	0
83	MG	AW	301	1/1	0.77	0.12	38,38,38,38	0
83	MG	CM	1907	1/1	0.77	0.22	59,59,59,59	0
83	MG	AX	401	1/1	0.77	0.21	59,59,59,59	0
83	MG	1	3810	1/1	0.77	0.23	54,54,54,54	0
83	MG	1	3548	1/1	0.77	0.49	48,48,48,48	0
83	MG	CM	1937	1/1	0.77	0.12	50,50,50,50	0
83	MG	B	1951	1/1	0.77	0.16	79,79,79,79	0

Continued on next page...

Continued from previous page...

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3933	1/1	0.77	0.22	62,62,62,62	0
83	MG	1	3582	1/1	0.77	0.96	52,52,52,52	0
83	MG	1	3679	1/1	0.77	0.66	66,66,66,66	0
83	MG	B	1852	1/1	0.77	0.29	65,65,65,65	0
83	MG	w	303	1/1	0.77	0.19	73,73,73,73	0
83	MG	i	301	1/1	0.77	0.27	69,69,69,69	0
83	MG	CM	1896	1/1	0.77	0.30	42,42,42,42	0
83	MG	1	3756	1/1	0.78	0.23	57,57,57,57	0
83	MG	1	3905	1/1	0.78	0.15	38,38,38,38	0
83	MG	B	1802	1/1	0.78	0.24	71,71,71,71	0
83	MG	B	1805	1/1	0.78	0.30	91,91,91,91	0
83	MG	1	3589	1/1	0.78	0.36	49,49,49,49	0
83	MG	AS	3780	1/1	0.78	0.13	59,59,59,59	0
83	MG	1	3427	1/1	0.78	0.21	26,26,26,26	0
83	MG	B	1822	1/1	0.78	0.11	45,45,45,45	0
83	MG	1	3872	1/1	0.78	0.17	58,58,58,58	0
83	MG	AS	3719	1/1	0.78	0.30	74,74,74,74	0
83	MG	1	3433	1/1	0.78	0.13	80,80,80,80	0
83	MG	1	3957	1/1	0.78	0.79	59,59,59,59	0
83	MG	1	3920	1/1	0.78	1.01	69,69,69,69	0
83	MG	1	3683	1/1	0.78	0.13	67,67,67,67	0
83	MG	1	3663	1/1	0.78	0.28	61,61,61,61	0
83	MG	B	1898	1/1	0.78	0.14	49,49,49,49	0
83	MG	AH	201	1/1	0.78	0.31	60,60,60,60	0
83	MG	AU	208	1/1	0.79	0.22	74,74,74,74	0
83	MG	CM	1900	1/1	0.79	0.13	54,54,54,54	0
83	MG	1	3879	1/1	0.79	0.20	62,62,62,62	0
83	MG	CM	1915	1/1	0.79	0.20	62,62,62,62	0
83	MG	AS	3673	1/1	0.79	0.28	65,65,65,65	0
83	MG	1	3405	1/1	0.79	0.19	59,59,59,59	0
83	MG	B	1835	1/1	0.79	0.24	62,62,62,62	0
83	MG	AS	3765	1/1	0.79	0.20	65,65,65,65	0
83	MG	1	3681	1/1	0.79	0.67	30,30,30,30	0
83	MG	3	208	1/1	0.79	0.49	64,64,64,64	0
83	MG	1	3896	1/1	0.79	0.35	64,64,64,64	0
83	MG	CQ	302	1/1	0.79	0.29	67,67,67,67	0
83	MG	4	202	1/1	0.79	0.20	43,43,43,43	0
83	MG	1	3549	1/1	0.79	0.44	59,59,59,59	0
83	MG	1	3753	1/1	0.79	0.30	52,52,52,52	0
83	MG	AT	210	1/1	0.79	0.17	50,50,50,50	0
83	MG	AU	203	1/1	0.79	0.10	54,54,54,54	0
83	MG	1	3642	1/1	0.80	0.46	41,41,41,41	0

Continued on next page...

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3732	1/1	0.80	0.25	56,56,56,56	0
83	MG	B	1864	1/1	0.80	0.19	68,68,68,68	0
83	MG	AS	3542	1/1	0.80	0.11	66,66,66,66	0
83	MG	CM	1852	1/1	0.80	0.22	85,85,85,85	0
83	MG	1	3446	1/1	0.80	0.13	82,82,82,82	0
83	MG	CM	1873	1/1	0.80	0.30	80,80,80,80	0
83	MG	AS	3561	1/1	0.80	0.18	45,45,45,45	0
83	MG	AS	3575	1/1	0.80	0.30	58,58,58,58	0
83	MG	1	3490	1/1	0.80	0.16	53,53,53,53	0
83	MG	AS	3599	1/1	0.80	0.26	79,79,79,79	0
83	MG	1	3600	1/1	0.80	0.69	81,81,81,81	0
83	MG	AS	3769	1/1	0.80	0.25	70,70,70,70	0
83	MG	1	3527	1/1	0.80	0.67	48,48,48,48	0
83	MG	D	301	1/1	0.80	0.19	60,60,60,60	0
83	MG	B	1804	1/1	0.80	0.26	70,70,70,70	0
83	MG	1	3947	1/1	0.80	0.78	55,55,55,55	0
83	MG	1	3917	1/1	0.80	0.25	64,64,64,64	0
83	MG	1	3884	1/1	0.80	0.22	53,53,53,53	0
83	MG	1	3586	1/1	0.80	0.16	35,35,35,35	0
83	MG	1	3891	1/1	0.80	0.61	65,65,65,65	0
83	MG	AS	3467	1/1	0.80	0.12	73,73,73,73	0
83	MG	DA	201	1/1	0.80	0.20	62,62,62,62	0
83	MG	AS	3711	1/1	0.80	0.14	50,50,50,50	0
83	MG	AW	303	1/1	0.80	0.24	46,46,46,46	0
83	MG	3	209	1/1	0.80	0.13	60,60,60,60	0
83	MG	AB	202	1/1	0.80	0.74	54,54,54,54	0
83	MG	1	3859	1/1	0.80	0.26	67,67,67,67	0
83	MG	1	3534	1/1	0.81	0.20	37,37,37,37	0
83	MG	AU	204	1/1	0.81	0.39	70,70,70,70	0
83	MG	1	3781	1/1	0.81	0.79	78,78,78,78	0
83	MG	1	3922	1/1	0.81	0.79	75,75,75,75	0
83	MG	AS	3756	1/1	0.81	0.56	59,59,59,59	0
83	MG	CM	1909	1/1	0.81	0.14	74,74,74,74	0
83	MG	CM	1914	1/1	0.81	0.16	55,55,55,55	0
83	MG	1	3782	1/1	0.81	0.38	58,58,58,58	0
83	MG	AW	304	1/1	0.81	1.57	67,67,67,67	0
83	MG	1	3640	1/1	0.81	0.41	49,49,49,49	0
83	MG	1	3607	1/1	0.81	0.21	42,42,42,42	0
83	MG	AS	3535	1/1	0.81	0.20	58,58,58,58	0
83	MG	CM	1942	1/1	0.81	0.84	62,62,62,62	0
83	MG	1	3901	1/1	0.81	0.41	49,49,49,49	0
83	MG	1	3643	1/1	0.81	0.20	46,46,46,46	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3863	1/1	0.81	0.20	67,67,67,67	0
83	MG	CM	1825	1/1	0.81	0.11	39,39,39,39	0
83	MG	1	3909	1/1	0.81	0.18	45,45,45,45	0
83	MG	1	3742	1/1	0.81	0.18	36,36,36,36	0
83	MG	CM	1864	1/1	0.81	0.16	68,68,68,68	0
83	MG	1	3748	1/1	0.81	0.19	51,51,51,51	0
83	MG	1	3685	1/1	0.81	0.55	76,76,76,76	0
83	MG	1	3619	1/1	0.81	0.50	50,50,50,50	0
83	MG	1	3668	1/1	0.82	0.15	32,32,32,32	0
83	MG	3	215	1/1	0.82	0.11	65,65,65,65	0
83	MG	1	3686	1/1	0.82	0.13	88,88,88,88	0
83	MG	AS	3638	1/1	0.82	1.16	56,56,56,56	0
83	MG	1	3603	1/1	0.82	0.56	52,52,52,52	0
83	MG	AS	3530	1/1	0.82	0.20	29,29,29,29	0
83	MG	AS	3534	1/1	0.82	0.11	64,64,64,64	0
83	MG	AY	401	1/1	0.82	0.15	62,62,62,62	0
83	MG	AS	3669	1/1	0.82	0.83	64,64,64,64	0
83	MG	Q	201	1/1	0.82	0.15	60,60,60,60	0
83	MG	AS	3672	1/1	0.82	0.32	42,42,42,42	0
83	MG	1	3926	1/1	0.82	0.31	63,63,63,63	0
83	MG	AS	3700	1/1	0.82	0.16	46,46,46,46	0
83	MG	1	3719	1/1	0.82	0.20	90,90,90,90	0
83	MG	1	3826	1/1	0.82	0.31	57,57,57,57	0
83	MG	3	206	1/1	0.82	0.61	57,57,57,57	0
83	MG	CM	1863	1/1	0.82	0.12	64,64,64,64	0
83	MG	AS	3779	1/1	0.82	0.40	59,59,59,59	0
83	MG	o	302	1/1	0.82	0.13	37,37,37,37	0
83	MG	AS	3715	1/1	0.82	0.22	66,66,66,66	0
83	MG	1	3697	1/1	0.82	0.76	38,38,38,38	0
83	MG	AS	3468	1/1	0.82	0.24	58,58,58,58	0
83	MG	o	301	1/1	0.83	0.19	33,33,33,33	0
83	MG	1	3730	1/1	0.83	0.15	34,34,34,34	0
83	MG	B	1946	1/1	0.83	0.19	59,59,59,59	0
83	MG	1	3733	1/1	0.83	0.10	61,61,61,61	0
83	MG	AS	3639	1/1	0.83	0.09	40,40,40,40	0
83	MG	1	3935	1/1	0.83	0.20	76,76,76,76	0
83	MG	B	1894	1/1	0.83	0.20	61,61,61,61	0
83	MG	1	3873	1/1	0.83	0.14	46,46,46,46	0
83	MG	1	3596	1/1	0.83	0.23	56,56,56,56	0
83	MG	CM	1916	1/1	0.83	0.28	57,57,57,57	0
83	MG	1	3857	1/1	0.83	0.30	64,64,64,64	0
83	MG	1	3950	1/1	0.83	0.27	39,39,39,39	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	CL	302	1/1	0.83	0.27	77,77,77,77	0
83	MG	CM	1802	1/1	0.83	0.17	34,34,34,34	0
83	MG	G	302	1/1	0.83	0.74	62,62,62,62	0
83	MG	1	3535	1/1	0.83	0.19	34,34,34,34	0
83	MG	J	201	1/1	0.83	0.10	121,121,121,121	0
83	MG	1	3674	1/1	0.83	0.55	49,49,49,49	0
83	MG	1	3418	1/1	0.83	0.31	46,46,46,46	0
83	MG	CM	1853	1/1	0.83	0.18	57,57,57,57	0
83	MG	AS	3564	1/1	0.83	0.13	45,45,45,45	0
83	MG	AG	201	1/1	0.83	0.16	67,67,67,67	0
83	MG	CM	1865	1/1	0.83	0.18	38,38,38,38	0
83	MG	AS	3419	1/1	0.83	0.14	38,38,38,38	0
83	MG	AG	202	1/1	0.83	0.39	43,43,43,43	0
83	MG	k	402	1/1	0.84	0.26	57,57,57,57	0
83	MG	1	3470	1/1	0.84	0.16	34,34,34,34	0
83	MG	V	201	1/1	0.84	0.17	46,46,46,46	0
83	MG	1	3931	1/1	0.84	0.13	62,62,62,62	0
83	MG	g	101	1/1	0.84	0.16	78,78,78,78	0
83	MG	AR	401	1/1	0.84	0.24	60,60,60,60	0
83	MG	AS	3685	1/1	0.84	0.27	41,41,41,41	0
83	MG	CM	1801	1/1	0.84	0.16	51,51,51,51	0
83	MG	B	1913	1/1	0.84	0.16	58,58,58,58	0
83	MG	1	3652	1/1	0.84	0.23	44,44,44,44	0
83	MG	AS	3704	1/1	0.84	0.17	56,56,56,56	0
83	MG	AS	3707	1/1	0.84	0.21	70,70,70,70	0
83	MG	AS	3455	1/1	0.84	0.12	65,65,65,65	0
83	MG	AS	3583	1/1	0.84	0.15	45,45,45,45	0
83	MG	1	3725	1/1	0.84	0.13	33,33,33,33	0
83	MG	1	3800	1/1	0.84	0.18	44,44,44,44	0
83	MG	B	1965	1/1	0.84	1.22	61,61,61,61	0
83	MG	1	3766	1/1	0.84	0.14	34,34,34,34	0
83	MG	1	3510	1/1	0.84	0.15	24,24,24,24	0
83	MG	CM	1872	1/1	0.84	0.20	65,65,65,65	0
83	MG	1	3597	1/1	0.84	0.18	61,61,61,61	0
83	MG	1	3717	1/1	0.84	0.17	51,51,51,51	0
83	MG	1	3928	1/1	0.84	0.20	74,74,74,74	0
83	MG	AS	3624	1/1	0.85	0.15	42,42,42,42	0
83	MG	1	3877	1/1	0.85	0.60	49,49,49,49	0
83	MG	AS	3487	1/1	0.85	1.05	70,70,70,70	0
83	MG	CM	1874	1/1	0.85	0.14	49,49,49,49	0
83	MG	1	3536	1/1	0.85	0.16	17,17,17,17	0
83	MG	AW	302	1/1	0.85	0.12	35,35,35,35	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3521	1/1	0.85	0.14	45,45,45,45	0
83	MG	1	3844	1/1	0.85	0.13	70,70,70,70	0
83	MG	B	1944	1/1	0.85	0.15	67,67,67,67	0
83	MG	AS	3646	1/1	0.85	0.30	65,65,65,65	0
83	MG	B	1945	1/1	0.85	0.20	71,71,71,71	0
83	MG	Z	201	1/1	0.85	1.23	72,72,72,72	0
83	MG	BN	201	1/1	0.85	0.11	56,56,56,56	0
83	MG	AS	3667	1/1	0.85	0.18	54,54,54,54	0
83	MG	CK	101	1/1	0.85	0.19	67,67,67,67	0
83	MG	CM	1918	1/1	0.85	0.13	51,51,51,51	0
83	MG	B	1809	1/1	0.85	0.14	46,46,46,46	0
83	MG	1	3554	1/1	0.85	0.22	51,51,51,51	0
83	MG	1	3701	1/1	0.85	0.15	51,51,51,51	0
83	MG	CM	1814	1/1	0.85	0.29	39,39,39,39	0
83	MG	1	3560	1/1	0.85	0.60	79,79,79,79	0
83	MG	B	1833	1/1	0.85	0.20	45,45,45,45	0
83	MG	1	3609	1/1	0.85	0.99	72,72,72,72	0
83	MG	AS	3571	1/1	0.85	0.09	60,60,60,60	0
83	MG	CY	201	1/1	0.85	0.69	71,71,71,71	0
83	MG	CM	1838	1/1	0.85	0.19	44,44,44,44	0
83	MG	r	302	1/1	0.85	0.67	56,56,56,56	0
83	MG	1	3690	1/1	0.85	0.34	57,57,57,57	0
83	MG	1	3565	1/1	0.85	0.26	51,51,51,51	0
83	MG	1	3721	1/1	0.85	0.21	26,26,26,26	0
83	MG	AS	3602	1/1	0.85	0.22	44,44,44,44	0
83	MG	B	1862	1/1	0.86	0.14	67,67,67,67	0
83	MG	CM	1818	1/1	0.86	0.10	43,43,43,43	0
83	MG	0	204	1/1	0.86	0.12	59,59,59,59	0
83	MG	B	1876	1/1	0.86	0.26	50,50,50,50	0
83	MG	1	3816	1/1	0.86	0.13	51,51,51,51	0
83	MG	AS	3574	1/1	0.86	0.10	47,47,47,47	0
83	MG	AS	3749	1/1	0.86	0.10	44,44,44,44	0
83	MG	1	3773	1/1	0.86	0.34	38,38,38,38	0
83	MG	1	3724	1/1	0.86	0.13	35,35,35,35	0
83	MG	1	3608	1/1	0.86	0.46	57,57,57,57	0
83	MG	1	3838	1/1	0.86	0.14	54,54,54,54	0
83	MG	AS	3600	1/1	0.86	0.18	50,50,50,50	0
83	MG	B	1912	1/1	0.86	0.15	55,55,55,55	0
83	MG	AS	3622	1/1	0.86	0.13	62,62,62,62	0
83	MG	1	3728	1/1	0.86	0.16	46,46,46,46	0
83	MG	1	3495	1/1	0.86	0.28	54,54,54,54	0
83	MG	B	1917	1/1	0.86	0.14	54,54,54,54	0

*Continued on next page...*



*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3843	1/1	0.86	0.17	27,27,27,27	0
83	MG	AS	3402	1/1	0.86	0.11	42,42,42,42	0
83	MG	4	209	1/1	0.86	0.24	29,29,29,29	0
83	MG	1	3930	1/1	0.86	0.20	51,51,51,51	0
83	MG	B	1924	1/1	0.86	0.47	74,74,74,74	0
83	MG	1	3618	1/1	0.86	0.25	37,37,37,37	0
83	MG	B	1931	1/1	0.86	0.13	44,44,44,44	0
83	MG	1	3898	1/1	0.86	0.84	66,66,66,66	0
83	MG	1	3852	1/1	0.86	0.20	49,49,49,49	0
83	MG	AU	210	1/1	0.86	0.35	33,33,33,33	0
83	MG	1	3467	1/1	0.86	0.22	37,37,37,37	0
83	MG	AS	3480	1/1	0.86	0.15	45,45,45,45	0
83	MG	1	3746	1/1	0.86	0.13	42,42,42,42	0
83	MG	1	3718	1/1	0.86	0.56	39,39,39,39	0
83	MG	CM	1941	1/1	0.86	0.11	59,59,59,59	0
83	MG	AS	3693	1/1	0.86	0.77	43,43,43,43	0
83	MG	1	3942	1/1	0.86	0.56	54,54,54,54	0
83	MG	v	302	1/1	0.86	0.14	69,69,69,69	0
83	MG	BF	201	1/1	0.86	0.09	58,58,58,58	0
83	MG	1	3625	1/1	0.86	0.39	57,57,57,57	0
83	MG	1	3913	1/1	0.86	0.18	28,28,28,28	0
83	MG	1	3544	1/1	0.86	0.25	57,57,57,57	0
83	MG	CA	203	1/1	0.86	0.41	68,68,68,68	0
83	MG	1	3468	1/1	0.86	0.16	55,55,55,55	0
83	MG	B	1860	1/1	0.86	0.15	36,36,36,36	0
83	MG	B	1961	1/1	0.86	0.20	74,74,74,74	0
83	MG	AS	3548	1/1	0.86	0.21	40,40,40,40	0
83	MG	B	1874	1/1	0.87	0.24	53,53,53,53	0
83	MG	AS	3691	1/1	0.87	0.41	70,70,70,70	0
83	MG	AT	202	1/1	0.87	0.25	34,34,34,34	0
83	MG	AS	3446	1/1	0.87	0.11	45,45,45,45	0
83	MG	AS	3447	1/1	0.87	0.18	41,41,41,41	0
83	MG	AU	202	1/1	0.87	0.18	46,46,46,46	0
83	MG	4	203	1/1	0.87	0.25	56,56,56,56	0
83	MG	AS	3580	1/1	0.87	0.12	33,33,33,33	0
83	MG	1	3581	1/1	0.87	0.34	37,37,37,37	0
83	MG	B	1807	1/1	0.87	0.15	43,43,43,43	0
83	MG	CM	1887	1/1	0.87	0.11	38,38,38,38	0
83	MG	0	201	1/1	0.87	0.28	49,49,49,49	0
83	MG	1	3673	1/1	0.87	0.30	37,37,37,37	0
83	MG	B	1815	1/1	0.87	0.11	86,86,86,86	0
83	MG	1	3885	1/1	0.87	0.47	42,42,42,42	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3464	1/1	0.87	0.80	58,58,58,58	0
83	MG	1	3871	1/1	0.87	0.45	66,66,66,66	0
83	MG	1	3622	1/1	0.87	0.70	52,52,52,52	0
83	MG	AS	3733	1/1	0.87	0.11	79,79,79,79	0
83	MG	1	3602	1/1	0.87	0.17	51,51,51,51	0
83	MG	AS	3746	1/1	0.87	0.19	62,62,62,62	0
83	MG	1	3876	1/1	0.87	0.17	61,61,61,61	0
83	MG	o	304	1/1	0.87	0.20	56,56,56,56	0
83	MG	BZ	204	1/1	0.87	0.42	49,49,49,49	0
83	MG	B	1845	1/1	0.87	0.21	42,42,42,42	0
83	MG	AS	3531	1/1	0.87	0.13	29,29,29,29	0
83	MG	1	3667	1/1	0.87	0.09	37,37,37,37	0
83	MG	B	1856	1/1	0.87	0.16	84,84,84,84	0
83	MG	AS	3761	1/1	0.87	0.19	53,53,53,53	0
83	MG	AS	3656	1/1	0.87	0.14	44,44,44,44	0
83	MG	AS	3660	1/1	0.87	0.16	70,70,70,70	0
83	MG	B	1857	1/1	0.87	0.43	57,57,57,57	0
83	MG	1	3477	1/1	0.87	0.13	25,25,25,25	0
83	MG	DG	202	1/1	0.87	0.13	45,45,45,45	0
83	MG	AS	3772	1/1	0.87	0.23	45,45,45,45	0
86	ZN	AP	203	1/1	0.87	0.14	147,147,147,147	0
83	MG	B	1861	1/1	0.87	0.32	86,86,86,86	0
83	MG	1	3939	1/1	0.87	0.38	52,52,52,52	0
83	MG	1	3924	1/1	0.87	0.15	36,36,36,36	0
83	MG	1	3849	1/1	0.88	0.07	59,59,59,59	0
83	MG	AS	3540	1/1	0.88	0.17	41,41,41,41	0
83	MG	1	3479	1/1	0.88	0.15	42,42,42,42	0
83	MG	1	3546	1/1	0.88	0.07	56,56,56,56	0
83	MG	1	3749	1/1	0.88	0.24	59,59,59,59	0
83	MG	B	1887	1/1	0.88	0.15	91,91,91,91	0
83	MG	CM	1866	1/1	0.88	0.14	74,74,74,74	0
83	MG	AS	3436	1/1	0.88	0.08	50,50,50,50	0
83	MG	1	3860	1/1	0.88	0.12	51,51,51,51	0
83	MG	AS	3694	1/1	0.88	0.10	39,39,39,39	0
83	MG	1	3808	1/1	0.88	0.20	70,70,70,70	0
83	MG	B	1953	1/1	0.88	0.10	57,57,57,57	0
83	MG	AU	206	1/1	0.88	0.15	45,45,45,45	0
83	MG	AU	207	1/1	0.88	0.40	73,73,73,73	0
83	MG	1	3561	1/1	0.88	0.31	62,62,62,62	0
83	MG	1	3687	1/1	0.88	0.14	68,68,68,68	0
83	MG	AS	3591	1/1	0.88	0.12	41,41,41,41	0
83	MG	1	3562	1/1	0.88	0.09	51,51,51,51	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
83	MG	1	3771	1/1	0.88	0.12	39,39,39,39	0
83	MG	1	3615	1/1	0.88	0.41	62,62,62,62	0
83	MG	1	3692	1/1	0.88	0.18	38,38,38,38	0
83	MG	AS	3612	1/1	0.88	0.13	40,40,40,40	0
83	MG	AS	3621	1/1	0.88	0.14	72,72,72,72	0
83	MG	1	3485	1/1	0.88	0.19	36,36,36,36	0
83	MG	1	3941	1/1	0.88	0.10	46,46,46,46	0
83	MG	AS	3625	1/1	0.88	0.45	52,52,52,52	0
83	MG	AS	3488	1/1	0.88	0.18	31,31,31,31	0
83	MG	k	405	1/1	0.88	1.08	54,54,54,54	0
83	MG	BZ	202	1/1	0.88	1.08	71,71,71,71	0
83	MG	AS	3514	1/1	0.88	0.11	36,36,36,36	0
83	MG	AS	3752	1/1	0.88	0.17	62,62,62,62	0
83	MG	AS	3515	1/1	0.88	0.12	33,33,33,33	0
83	MG	B	1855	1/1	0.88	0.20	49,49,49,49	0
83	MG	1	3526	1/1	0.88	0.17	43,43,43,43	0
83	MG	AS	3645	1/1	0.88	0.39	47,47,47,47	0
83	MG	DB	202	1/1	0.88	0.14	67,67,67,67	0
83	MG	CM	1806	1/1	0.88	0.14	52,52,52,52	0
83	MG	1	3507	1/1	0.88	0.16	45,45,45,45	0
83	MG	1	3550	1/1	0.88	0.16	33,33,33,33	0
83	MG	1	3715	1/1	0.88	0.53	38,38,38,38	0
83	MG	Y	203	1/1	0.88	0.22	61,61,61,61	0
83	MG	B	1939	1/1	0.88	0.24	77,77,77,77	0
83	MG	AS	3665	1/1	0.88	0.11	29,29,29,29	0
83	MG	j	303	1/1	0.89	0.15	22,22,22,22	0
83	MG	k	401	1/1	0.89	0.27	63,63,63,63	0
83	MG	f	102	1/1	0.89	0.20	59,59,59,59	0
83	MG	CL	303	1/1	0.89	0.14	41,41,41,41	0
83	MG	1	3726	1/1	0.89	0.17	47,47,47,47	0
83	MG	1	3452	1/1	0.89	0.18	23,23,23,23	0
83	MG	1	3861	1/1	0.89	0.43	85,85,85,85	0
83	MG	AS	3728	1/1	0.89	0.13	57,57,57,57	0
83	MG	AS	3588	1/1	0.89	0.14	74,74,74,74	0
83	MG	AS	3415	1/1	0.89	0.25	46,46,46,46	0
83	MG	AS	3593	1/1	0.89	0.10	48,48,48,48	0
83	MG	1	3676	1/1	0.89	0.15	67,67,67,67	0
83	MG	1	3818	1/1	0.89	0.10	40,40,40,40	0
83	MG	AS	3443	1/1	0.89	0.11	49,49,49,49	0
83	MG	AS	3751	1/1	0.89	0.16	74,74,74,74	0
83	MG	1	3865	1/1	0.89	0.30	77,77,77,77	0
83	MG	CM	1859	1/1	0.89	0.18	59,59,59,59	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3608	1/1	0.89	0.13	40,40,40,40	0
83	MG	AS	3609	1/1	0.89	0.28	45,45,45,45	0
83	MG	B	1828	1/1	0.89	0.17	47,47,47,47	0
83	MG	AS	3616	1/1	0.89	0.21	48,48,48,48	0
83	MG	AS	3617	1/1	0.89	0.14	44,44,44,44	0
83	MG	1	3732	1/1	0.89	0.65	58,58,58,58	0
83	MG	1	3943	1/1	0.89	0.39	40,40,40,40	0
83	MG	AS	3458	1/1	0.89	0.30	40,40,40,40	0
83	MG	CM	1875	1/1	0.89	0.10	42,42,42,42	0
83	MG	1	3539	1/1	0.89	0.41	73,73,73,73	0
83	MG	CM	1881	1/1	0.89	0.21	72,72,72,72	0
83	MG	1	3737	1/1	0.89	0.13	41,41,41,41	0
83	MG	1	3951	1/1	0.89	0.14	48,48,48,48	0
83	MG	1	3783	1/1	0.89	0.27	49,49,49,49	0
83	MG	AS	3471	1/1	0.89	0.21	43,43,43,43	0
83	MG	CM	1899	1/1	0.89	0.15	50,50,50,50	0
83	MG	AS	3477	1/1	0.89	0.12	46,46,46,46	0
83	MG	AS	3642	1/1	0.89	0.19	58,58,58,58	0
83	MG	1	3874	1/1	0.89	0.12	49,49,49,49	0
83	MG	CM	1912	1/1	0.89	0.18	58,58,58,58	0
83	MG	1	3409	1/1	0.89	0.09	61,61,61,61	0
83	MG	1	3694	1/1	0.89	0.24	26,26,26,26	0
83	MG	3	207	1/1	0.89	0.49	66,66,66,66	0
83	MG	B	1955	1/1	0.89	0.12	60,60,60,60	0
83	MG	1	3576	1/1	0.89	0.14	50,50,50,50	0
83	MG	1	3882	1/1	0.89	1.02	61,61,61,61	0
83	MG	CM	1933	1/1	0.89	0.31	53,53,53,53	0
83	MG	1	3669	1/1	0.89	0.34	45,45,45,45	0
83	MG	AE	201	1/1	0.89	0.26	33,33,33,33	0
83	MG	B	1869	1/1	0.89	0.14	71,71,71,71	0
83	MG	AE	203	1/1	0.89	0.21	84,84,84,84	0
83	MG	1	3846	1/1	0.89	0.21	64,64,64,64	0
83	MG	AS	3532	1/1	0.89	0.09	55,55,55,55	0
83	MG	1	3634	1/1	0.89	0.31	68,68,68,68	0
83	MG	CQ	301	1/1	0.89	0.13	42,42,42,42	0
83	MG	1	3434	1/1	0.89	0.19	42,42,42,42	0
83	MG	AS	3538	1/1	0.89	0.25	37,37,37,37	0
83	MG	4	204	1/1	0.89	0.14	32,32,32,32	0
83	MG	1	3762	1/1	0.89	0.14	52,52,52,52	0
83	MG	AP	202	1/1	0.89	1.32	85,85,85,85	0
83	MG	DG	201	1/1	0.89	0.24	48,48,48,48	0
83	MG	1	3895	1/1	0.89	0.23	71,71,71,71	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	B	1900	1/1	0.89	0.12	56,56,56,56	0
83	MG	BO	201	1/1	0.89	0.17	57,57,57,57	0
83	MG	AS	3708	1/1	0.89	0.17	44,44,44,44	0
83	MG	1	3858	1/1	0.89	0.14	41,41,41,41	0
83	MG	AS	3710	1/1	0.89	0.16	47,47,47,47	0
83	MG	1	3442	1/1	0.90	0.23	50,50,50,50	0
83	MG	AS	3705	1/1	0.90	0.10	51,51,51,51	0
83	MG	1	3738	1/1	0.90	0.12	46,46,46,46	0
83	MG	1	3740	1/1	0.90	0.21	35,35,35,35	0
83	MG	CK	102	1/1	0.90	0.39	48,48,48,48	0
83	MG	CL	301	1/1	0.90	0.18	41,41,41,41	0
83	MG	1	3839	1/1	0.90	0.17	39,39,39,39	0
83	MG	B	1902	1/1	0.90	0.16	74,74,74,74	0
83	MG	1	3587	1/1	0.90	0.08	49,49,49,49	0
83	MG	B	1816	1/1	0.90	0.22	52,52,52,52	0
83	MG	1	3559	1/1	0.90	0.10	51,51,51,51	0
83	MG	AS	3717	1/1	0.90	0.18	52,52,52,52	0
83	MG	AS	3581	1/1	0.90	0.09	36,36,36,36	0
83	MG	CM	1820	1/1	0.90	0.23	33,33,33,33	0
83	MG	AS	3722	1/1	0.90	0.18	69,69,69,69	0
83	MG	1	3955	1/1	0.90	0.08	32,32,32,32	0
83	MG	AS	3585	1/1	0.90	0.27	49,49,49,49	0
83	MG	CM	1835	1/1	0.90	0.23	49,49,49,49	0
83	MG	1	3792	1/1	0.90	0.10	51,51,51,51	0
83	MG	AS	3589	1/1	0.90	0.12	33,33,33,33	0
83	MG	AS	3413	1/1	0.90	0.21	55,55,55,55	0
83	MG	B	1832	1/1	0.90	0.22	46,46,46,46	0
83	MG	AS	3745	1/1	0.90	0.11	63,63,63,63	0
83	MG	3	202	1/1	0.90	0.10	57,57,57,57	0
83	MG	AS	3421	1/1	0.90	0.13	28,28,28,28	0
83	MG	B	1834	1/1	0.90	0.26	35,35,35,35	0
83	MG	AS	3750	1/1	0.90	0.12	43,43,43,43	0
83	MG	1	3796	1/1	0.90	0.11	67,67,67,67	0
83	MG	1	3651	1/1	0.90	0.34	55,55,55,55	0
83	MG	B	1934	1/1	0.90	0.10	86,86,86,86	0
83	MG	1	3848	1/1	0.90	0.14	45,45,45,45	0
83	MG	AS	3614	1/1	0.90	0.10	57,57,57,57	0
83	MG	CM	1878	1/1	0.90	0.17	34,34,34,34	0
83	MG	B	1937	1/1	0.90	0.48	52,52,52,52	0
83	MG	AS	3456	1/1	0.90	0.12	55,55,55,55	0
83	MG	1	3402	1/1	0.90	0.22	20,20,20,20	0
83	MG	3	211	1/1	0.90	0.13	52,52,52,52	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3767	1/1	0.90	0.11	30,30,30,30	0
83	MG	1	3707	1/1	0.90	0.10	31,31,31,31	0
83	MG	1	3524	1/1	0.90	0.19	43,43,43,43	0
83	MG	1	3757	1/1	0.90	0.26	50,50,50,50	0
83	MG	AS	3633	1/1	0.90	0.50	80,80,80,80	0
83	MG	1	3729	1/1	0.90	0.15	50,50,50,50	0
83	MG	1	3417	1/1	0.90	0.14	30,30,30,30	0
83	MG	B	1948	1/1	0.90	0.22	69,69,69,69	0
83	MG	1	3658	1/1	0.90	0.15	31,31,31,31	0
83	MG	B	1952	1/1	0.90	0.11	49,49,49,49	0
83	MG	1	3583	1/1	0.90	0.32	38,38,38,38	0
83	MG	AS	3491	1/1	0.90	0.18	42,42,42,42	0
83	MG	CM	1924	1/1	0.90	0.14	43,43,43,43	0
83	MG	1	3902	1/1	0.90	0.12	60,60,60,60	0
83	MG	CM	1927	1/1	0.90	0.33	56,56,56,56	0
83	MG	AS	3647	1/1	0.90	0.09	76,76,76,76	0
83	MG	AS	3511	1/1	0.90	0.09	39,39,39,39	0
83	MG	B	1865	1/1	0.90	0.18	61,61,61,61	0
83	MG	1	3938	1/1	0.90	0.45	25,25,25,25	0
83	MG	B	1871	1/1	0.90	0.22	53,53,53,53	0
83	MG	CM	1944	1/1	0.90	0.41	75,75,75,75	0
83	MG	1	3903	1/1	0.90	0.21	48,48,48,48	0
83	MG	1	3735	1/1	0.90	0.19	25,25,25,25	0
83	MG	B	1962	1/1	0.90	0.18	65,65,65,65	0
83	MG	CP	301	1/1	0.90	0.21	36,36,36,36	0
83	MG	B	1881	1/1	0.90	0.18	40,40,40,40	0
83	MG	B	1967	1/1	0.90	0.12	70,70,70,70	0
83	MG	B	1969	1/1	0.90	0.14	28,28,28,28	0
83	MG	B	1882	1/1	0.90	0.21	63,63,63,63	0
83	MG	AS	3688	1/1	0.90	0.10	29,29,29,29	0
83	MG	AS	3690	1/1	0.90	0.98	68,68,68,68	0
83	MG	B	1801	1/1	0.90	0.25	38,38,38,38	0
83	MG	BH	201	1/1	0.90	0.13	35,35,35,35	0
83	MG	1	3830	1/1	0.90	0.29	48,48,48,48	0
84	3K5	AS	3401	57/57	0.90	0.36	42,64,91,93	0
85	TIX	1	3958	27/27	0.90	0.33	51,60,85,184	0
83	MG	B	1890	1/1	0.90	0.14	38,38,38,38	0
83	MG	1	3831	1/1	0.90	0.35	42,42,42,42	0
83	MG	AS	3544	1/1	0.90	0.10	46,46,46,46	0
83	MG	BV	201	1/1	0.90	0.15	45,45,45,45	0
83	MG	1	3497	1/1	0.91	0.15	39,39,39,39	0
83	MG	AS	3457	1/1	0.91	0.20	31,31,31,31	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	B	1949	1/1	0.91	0.11	61,61,61,61	0
83	MG	CM	1803	1/1	0.91	0.14	31,31,31,31	0
83	MG	AS	3730	1/1	0.91	0.28	49,49,49,49	0
83	MG	CM	1808	1/1	0.91	0.33	81,81,81,81	0
83	MG	1	3502	1/1	0.91	0.13	39,39,39,39	0
83	MG	CM	1816	1/1	0.91	0.24	25,25,25,25	0
83	MG	AS	3606	1/1	0.91	0.23	41,41,41,41	0
83	MG	AS	3741	1/1	0.91	0.15	46,46,46,46	0
83	MG	1	3593	1/1	0.91	0.32	45,45,45,45	0
83	MG	1	3637	1/1	0.91	0.29	47,47,47,47	0
83	MG	CM	1824	1/1	0.91	0.09	28,28,28,28	0
83	MG	B	1954	1/1	0.91	0.13	34,34,34,34	0
83	MG	B	1808	1/1	0.91	0.13	75,75,75,75	0
83	MG	1	3428	1/1	0.91	0.15	25,25,25,25	0
83	MG	o	303	1/1	0.91	0.15	41,41,41,41	0
83	MG	CM	1841	1/1	0.91	0.21	38,38,38,38	0
83	MG	CM	1848	1/1	0.91	0.14	62,62,62,62	0
83	MG	1	3750	1/1	0.91	0.11	56,56,56,56	0
83	MG	AS	3486	1/1	0.91	0.10	43,43,43,43	0
83	MG	1	3751	1/1	0.91	0.14	37,37,37,37	0
83	MG	AS	3755	1/1	0.91	0.41	63,63,63,63	0
83	MG	1	3915	1/1	0.91	0.18	71,71,71,71	0
83	MG	AS	3489	1/1	0.91	0.19	32,32,32,32	0
83	MG	AS	3632	1/1	0.91	1.00	51,51,51,51	0
83	MG	CM	1868	1/1	0.91	0.31	73,73,73,73	0
83	MG	CM	1869	1/1	0.91	0.18	40,40,40,40	0
83	MG	1	3709	1/1	0.91	0.33	41,41,41,41	0
83	MG	AS	3493	1/1	0.91	0.20	49,49,49,49	0
83	MG	AS	3504	1/1	0.91	0.11	38,38,38,38	0
83	MG	AS	3766	1/1	0.91	0.71	53,53,53,53	0
83	MG	B	1826	1/1	0.91	0.23	49,49,49,49	0
83	MG	B	1827	1/1	0.91	0.17	30,30,30,30	0
83	MG	1	3585	1/1	0.91	0.10	38,38,38,38	0
83	MG	B	1904	1/1	0.91	0.17	90,90,90,90	0
83	MG	AS	3773	1/1	0.91	0.26	53,53,53,53	0
83	MG	B	1909	1/1	0.91	0.18	30,30,30,30	0
83	MG	B	1911	1/1	0.91	0.34	61,61,61,61	0
83	MG	1	3799	1/1	0.91	0.13	65,65,65,65	0
83	MG	1	3880	1/1	0.91	0.14	46,46,46,46	0
83	MG	1	3598	1/1	0.91	0.08	33,33,33,33	0
83	MG	1	3801	1/1	0.91	0.11	62,62,62,62	0
83	MG	CM	1908	1/1	0.91	0.18	45,45,45,45	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3533	1/1	0.91	0.25	60,60,60,60	0
83	MG	AT	205	1/1	0.91	0.11	57,57,57,57	0
83	MG	CM	1913	1/1	0.91	0.74	70,70,70,70	0
83	MG	1	3515	1/1	0.91	0.11	41,41,41,41	0
83	MG	1	3763	1/1	0.91	0.62	60,60,60,60	0
83	MG	AS	3668	1/1	0.91	0.18	64,64,64,64	0
83	MG	1	3888	1/1	0.91	0.55	43,43,43,43	0
83	MG	AU	205	1/1	0.91	0.11	40,40,40,40	0
83	MG	1	3889	1/1	0.91	0.40	38,38,38,38	0
83	MG	B	1928	1/1	0.91	0.24	39,39,39,39	0
83	MG	B	1850	1/1	0.91	0.28	53,53,53,53	0
83	MG	AS	3675	1/1	0.91	0.18	20,20,20,20	0
83	MG	AS	3682	1/1	0.91	0.18	43,43,43,43	0
83	MG	1	3601	1/1	0.91	0.55	56,56,56,56	0
83	MG	1	3856	1/1	0.91	0.37	36,36,36,36	0
83	MG	AS	3553	1/1	0.91	0.17	21,21,21,21	0
83	MG	AS	3408	1/1	0.91	0.11	45,45,45,45	0
83	MG	AS	3412	1/1	0.91	0.09	29,29,29,29	0
83	MG	AS	3563	1/1	0.91	0.15	38,38,38,38	0
83	MG	AS	3698	1/1	0.91	0.62	41,41,41,41	0
83	MG	BB	304	1/1	0.91	1.43	63,63,63,63	0
83	MG	1	3893	1/1	0.91	0.14	55,55,55,55	0
83	MG	1	3621	1/1	0.91	0.22	40,40,40,40	0
83	MG	B	1858	1/1	0.91	0.08	38,38,38,38	0
83	MG	BJ	303	1/1	0.91	0.12	24,24,24,24	0
83	MG	B	1940	1/1	0.91	0.27	73,73,73,73	0
83	MG	AS	3424	1/1	0.91	0.13	45,45,45,45	0
83	MG	AS	3431	1/1	0.91	0.18	42,42,42,42	0
83	MG	1	3811	1/1	0.91	0.12	50,50,50,50	0
83	MG	4	210	1/1	0.91	0.31	58,58,58,58	0
83	MG	DQ	101	1/1	0.91	0.24	63,63,63,63	0
83	MG	1	3579	1/1	0.91	0.12	32,32,32,32	0
83	MG	1	3774	1/1	0.91	0.21	26,26,26,26	0
83	MG	1	3817	1/1	0.91	0.11	31,31,31,31	0
83	MG	1	3776	1/1	0.91	0.83	51,51,51,51	0
83	MG	AS	3594	1/1	0.91	0.13	35,35,35,35	0
83	MG	AS	3597	1/1	0.91	0.17	54,54,54,54	0
83	MG	AF	201	1/1	0.92	0.11	54,54,54,54	0
83	MG	CM	1840	1/1	0.92	0.16	51,51,51,51	0
83	MG	1	3815	1/1	0.92	0.09	42,42,42,42	0
83	MG	B	1859	1/1	0.92	0.16	59,59,59,59	0
83	MG	1	3509	1/1	0.92	0.12	44,44,44,44	0

*Continued on next page...*



*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3559	1/1	0.92	0.20	41,41,41,41	0
83	MG	CM	1854	1/1	0.92	0.10	29,29,29,29	0
83	MG	AS	3560	1/1	0.92	0.16	34,34,34,34	0
83	MG	CM	1861	1/1	0.92	0.12	43,43,43,43	0
83	MG	AS	3428	1/1	0.92	0.14	35,35,35,35	0
83	MG	AT	201	1/1	0.92	0.23	17,17,17,17	0
83	MG	AS	3679	1/1	0.92	0.18	37,37,37,37	0
83	MG	1	3567	1/1	0.92	0.12	64,64,64,64	0
83	MG	AS	3435	1/1	0.92	0.14	23,23,23,23	0
83	MG	AT	208	1/1	0.92	0.20	44,44,44,44	0
83	MG	AS	3569	1/1	0.92	0.08	37,37,37,37	0
83	MG	1	3780	1/1	0.92	0.21	29,29,29,29	0
83	MG	B	1863	1/1	0.92	0.17	59,59,59,59	0
83	MG	1	3680	1/1	0.92	0.25	30,30,30,30	0
83	MG	AK	101	1/1	0.92	0.24	32,32,32,32	0
83	MG	CM	1876	1/1	0.92	0.32	50,50,50,50	0
83	MG	CM	1877	1/1	0.92	0.11	42,42,42,42	0
83	MG	4	211	1/1	0.92	0.07	51,51,51,51	0
83	MG	1	3444	1/1	0.92	0.19	40,40,40,40	0
83	MG	B	1872	1/1	0.92	0.19	56,56,56,56	0
83	MG	1	3578	1/1	0.92	0.06	50,50,50,50	0
83	MG	B	1875	1/1	0.92	0.24	47,47,47,47	0
83	MG	CM	1889	1/1	0.92	0.16	39,39,39,39	0
83	MG	1	3833	1/1	0.92	0.16	32,32,32,32	0
83	MG	B	1880	1/1	0.92	0.26	52,52,52,52	0
83	MG	1	3556	1/1	0.92	0.20	42,42,42,42	0
83	MG	k	403	1/1	0.92	0.22	60,60,60,60	0
83	MG	AS	3470	1/1	0.92	0.16	44,44,44,44	0
83	MG	1	3557	1/1	0.92	0.37	35,35,35,35	0
83	MG	BB	301	1/1	0.92	0.08	29,29,29,29	0
83	MG	1	3946	1/1	0.92	0.77	41,41,41,41	0
83	MG	1	3599	1/1	0.92	0.09	60,60,60,60	0
83	MG	B	1891	1/1	0.92	0.09	49,49,49,49	0
83	MG	AS	3482	1/1	0.92	0.13	29,29,29,29	0
83	MG	1	3720	1/1	0.92	0.46	42,42,42,42	0
83	MG	BJ	301	1/1	0.92	0.64	64,64,64,64	0
83	MG	1	3426	1/1	0.92	0.09	38,38,38,38	0
83	MG	1	3628	1/1	0.92	0.20	61,61,61,61	0
83	MG	1	3533	1/1	0.92	0.14	22,22,22,22	0
83	MG	1	3633	1/1	0.92	0.34	41,41,41,41	0
83	MG	1	3693	1/1	0.92	0.17	51,51,51,51	0
83	MG	AS	3736	1/1	0.92	0.13	48,48,48,48	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	CM	1936	1/1	0.92	0.21	67,67,67,67	0
83	MG	1	3847	1/1	0.92	0.14	37,37,37,37	0
83	MG	w	301	1/1	0.92	0.16	29,29,29,29	0
83	MG	AS	3510	1/1	0.92	0.18	23,23,23,23	0
83	MG	3	203	1/1	0.92	0.26	47,47,47,47	0
83	MG	3	204	1/1	0.92	0.23	58,58,58,58	0
83	MG	CM	1947	1/1	0.92	0.19	44,44,44,44	0
83	MG	1	3803	1/1	0.92	0.11	32,32,32,32	0
83	MG	1	3584	1/1	0.92	0.14	42,42,42,42	0
83	MG	AS	3523	1/1	0.92	0.15	33,33,33,33	0
83	MG	1	3483	1/1	0.92	0.16	56,56,56,56	0
83	MG	1	3854	1/1	0.92	0.10	32,32,32,32	0
83	MG	CM	1804	1/1	0.92	0.09	42,42,42,42	0
83	MG	8	202	1/1	0.92	1.17	59,59,59,59	0
83	MG	DB	201	1/1	0.92	0.20	38,38,38,38	0
83	MG	1	3462	1/1	0.92	0.25	18,18,18,18	0
83	MG	DB	203	1/1	0.92	0.18	61,61,61,61	0
83	MG	3	213	1/1	0.92	0.13	62,62,62,62	0
83	MG	1	3450	1/1	0.92	0.13	33,33,33,33	0
83	MG	B	1853	1/1	0.92	0.10	32,32,32,32	0
83	MG	AS	3763	1/1	0.92	0.08	41,41,41,41	0
83	MG	AS	3407	1/1	0.92	0.11	23,23,23,23	0
84	3K5	1	3403	57/57	0.92	0.29	36,53,77,93	0
83	MG	1	3702	1/1	0.92	0.19	46,46,46,46	0
83	MG	AS	3655	1/1	0.92	0.12	48,48,48,48	0
85	TIX	AS	3782	27/27	0.92	0.38	48,60,73,150	0
83	MG	AS	3409	1/1	0.92	0.20	20,20,20,20	0
83	MG	CM	1829	1/1	0.92	0.29	33,33,33,33	0
83	MG	B	1933	1/1	0.92	0.16	60,60,60,60	0
86	ZN	CB	201	1/1	0.92	0.17	180,180,180,180	0
83	MG	1	3932	1/1	0.92	0.23	35,35,35,35	0
83	MG	1	3423	1/1	0.93	0.12	38,38,38,38	0
83	MG	1	3487	1/1	0.93	0.16	38,38,38,38	0
83	MG	AS	3737	1/1	0.93	0.23	18,18,18,18	0
83	MG	B	1838	1/1	0.93	0.22	35,35,35,35	0
83	MG	AS	3742	1/1	0.93	0.10	57,57,57,57	0
83	MG	1	3864	1/1	0.93	0.55	49,49,49,49	0
83	MG	1	3537	1/1	0.93	0.61	43,43,43,43	0
83	MG	1	3454	1/1	0.93	0.09	42,42,42,42	0
83	MG	1	3867	1/1	0.93	0.18	28,28,28,28	0
83	MG	AS	3607	1/1	0.93	0.13	37,37,37,37	0
83	MG	B	1851	1/1	0.93	0.17	63,63,63,63	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3804	1/1	0.93	0.10	31,31,31,31	0
83	MG	AS	3611	1/1	0.93	0.14	50,50,50,50	0
83	MG	1	3644	1/1	0.93	0.22	24,24,24,24	0
83	MG	CM	1845	1/1	0.93	0.19	28,28,28,28	0
83	MG	AS	3754	1/1	0.93	0.17	35,35,35,35	0
83	MG	B	1947	1/1	0.93	0.08	55,55,55,55	0
83	MG	1	3647	1/1	0.93	0.13	26,26,26,26	0
83	MG	u	202	1/1	0.93	0.08	30,30,30,30	0
83	MG	1	3491	1/1	0.93	0.08	24,24,24,24	0
83	MG	AS	3759	1/1	0.93	0.28	50,50,50,50	0
83	MG	1	3695	1/1	0.93	0.24	184,184,184,184	0
83	MG	1	3812	1/1	0.93	0.30	69,69,69,69	0
83	MG	1	3696	1/1	0.93	0.18	45,45,45,45	0
83	MG	AS	3628	1/1	0.93	0.13	61,61,61,61	0
83	MG	1	3457	1/1	0.93	0.15	28,28,28,28	0
83	MG	AS	3631	1/1	0.93	0.15	54,54,54,54	0
83	MG	1	3414	1/1	0.93	0.30	56,56,56,56	0
83	MG	1	3605	1/1	0.93	0.22	34,34,34,34	0
83	MG	AS	3503	1/1	0.93	0.12	45,45,45,45	0
83	MG	1	3944	1/1	0.93	0.43	47,47,47,47	0
83	MG	8	201	1/1	0.93	0.12	52,52,52,52	0
83	MG	1	3945	1/1	0.93	0.24	28,28,28,28	0
83	MG	8	203	1/1	0.93	0.43	38,38,38,38	0
83	MG	1	3521	1/1	0.93	0.14	52,52,52,52	0
83	MG	1	3820	1/1	0.93	0.32	34,34,34,34	0
83	MG	CM	1880	1/1	0.93	0.38	33,33,33,33	0
83	MG	AS	3517	1/1	0.93	0.21	24,24,24,24	0
83	MG	1	3498	1/1	0.93	0.12	26,26,26,26	0
83	MG	AS	3522	1/1	0.93	0.40	40,40,40,40	0
83	MG	1	3412	1/1	0.93	0.25	25,25,25,25	0
83	MG	AT	207	1/1	0.93	0.23	49,49,49,49	0
83	MG	1	3758	1/1	0.93	0.30	41,41,41,41	0
83	MG	1	3708	1/1	0.93	0.16	36,36,36,36	0
83	MG	1	3954	1/1	0.93	0.44	51,51,51,51	0
83	MG	CM	1905	1/1	0.93	0.19	82,82,82,82	0
83	MG	CM	1906	1/1	0.93	0.07	64,64,64,64	0
83	MG	1	3610	1/1	0.93	0.13	57,57,57,57	0
83	MG	1	3765	1/1	0.93	0.11	43,43,43,43	0
83	MG	1	3714	1/1	0.93	0.37	25,25,25,25	0
83	MG	CM	1910	1/1	0.93	0.17	65,65,65,65	0
83	MG	1	3770	1/1	0.93	0.09	31,31,31,31	0
83	MG	1	3503	1/1	0.93	0.11	44,44,44,44	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3553	1/1	0.93	0.16	47,47,47,47	0
83	MG	1	3842	1/1	0.93	0.27	54,54,54,54	0
83	MG	1	3528	1/1	0.93	0.12	39,39,39,39	0
83	MG	AS	3678	1/1	0.93	0.27	43,43,43,43	0
83	MG	1	3529	1/1	0.93	0.07	40,40,40,40	0
83	MG	CM	1919	1/1	0.93	0.31	52,52,52,52	0
83	MG	AS	3681	1/1	0.93	0.21	53,53,53,53	0
83	MG	1	3845	1/1	0.93	0.17	78,78,78,78	0
83	MG	AS	3547	1/1	0.93	0.18	36,36,36,36	0
83	MG	AS	3687	1/1	0.93	0.20	31,31,31,31	0
83	MG	1	3907	1/1	0.93	0.11	39,39,39,39	0
83	MG	BB	302	1/1	0.93	0.20	32,32,32,32	0
83	MG	1	3908	1/1	0.93	0.19	70,70,70,70	0
83	MG	1	3777	1/1	0.93	0.18	32,32,32,32	0
83	MG	BE	302	1/1	0.93	0.50	45,45,45,45	0
83	MG	AS	3558	1/1	0.93	0.09	34,34,34,34	0
83	MG	1	3530	1/1	0.93	0.11	58,58,58,58	0
83	MG	CM	1946	1/1	0.93	0.09	43,43,43,43	0
83	MG	1	3558	1/1	0.93	0.28	49,49,49,49	0
83	MG	1	3627	1/1	0.93	0.55	66,66,66,66	0
83	MG	1	3590	1/1	0.93	0.19	46,46,46,46	0
83	MG	BK	202	1/1	0.93	0.16	30,30,30,30	0
83	MG	1	3723	1/1	0.93	0.09	36,36,36,36	0
83	MG	1	3531	1/1	0.93	0.09	37,37,37,37	0
83	MG	AS	3570	1/1	0.93	0.17	33,33,33,33	0
83	MG	B	1825	1/1	0.93	0.09	58,58,58,58	0
83	MG	AS	3573	1/1	0.93	0.09	39,39,39,39	0
83	MG	AS	3425	1/1	0.93	0.13	49,49,49,49	0
83	MG	CA	202	1/1	0.93	0.12	53,53,53,53	0
83	MG	1	3631	1/1	0.93	0.71	42,42,42,42	0
83	MG	CJ	201	1/1	0.93	0.21	49,49,49,49	0
83	MG	AS	3712	1/1	0.93	0.16	32,32,32,32	0
83	MG	AS	3577	1/1	0.93	0.23	40,40,40,40	0
83	MG	B	1927	1/1	0.93	0.28	49,49,49,49	0
83	MG	1	3682	1/1	0.93	0.12	47,47,47,47	0
83	MG	AS	3582	1/1	0.93	0.07	51,51,51,51	0
83	MG	1	3921	1/1	0.93	0.28	69,69,69,69	0
83	MG	1	3421	1/1	0.93	0.22	12,12,12,12	0
83	MG	1	3484	1/1	0.93	0.11	39,39,39,39	0
86	ZN	AQ	101	1/1	0.93	0.20	65,65,65,65	0
83	MG	1	3635	1/1	0.93	0.24	36,36,36,36	0
83	MG	B	1935	1/1	0.93	0.10	71,71,71,71	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3453	1/1	0.93	0.17	39,39,39,39	0
83	MG	CM	1811	1/1	0.93	0.10	42,42,42,42	0
83	MG	AS	3706	1/1	0.94	0.23	44,44,44,44	0
83	MG	1	3671	1/1	0.94	0.97	73,73,73,73	0
83	MG	B	1821	1/1	0.94	0.33	37,37,37,37	0
83	MG	1	3698	1/1	0.94	0.19	41,41,41,41	0
83	MG	1	3413	1/1	0.94	0.17	21,21,21,21	0
83	MG	1	3469	1/1	0.94	0.15	42,42,42,42	0
83	MG	CM	1805	1/1	0.94	0.18	31,31,31,31	0
83	MG	1	3675	1/1	0.94	0.14	39,39,39,39	0
83	MG	AS	3427	1/1	0.94	0.27	32,32,32,32	0
83	MG	CM	1809	1/1	0.94	0.35	86,86,86,86	0
83	MG	1	3456	1/1	0.94	0.10	7,7,7,7	0
83	MG	B	1925	1/1	0.94	0.19	54,54,54,54	0
83	MG	AS	3432	1/1	0.94	0.18	23,23,23,23	0
83	MG	AS	3720	1/1	0.94	0.09	43,43,43,43	0
83	MG	AS	3721	1/1	0.94	0.28	64,64,64,64	0
83	MG	B	1830	1/1	0.94	0.26	42,42,42,42	0
83	MG	1	3739	1/1	0.94	0.22	19,19,19,19	0
83	MG	AS	3438	1/1	0.94	0.14	43,43,43,43	0
83	MG	AS	3440	1/1	0.94	0.12	28,28,28,28	0
83	MG	1	3677	1/1	0.94	0.21	55,55,55,55	0
83	MG	CM	1831	1/1	0.94	0.20	25,25,25,25	0
83	MG	CM	1833	1/1	0.94	0.32	36,36,36,36	0
83	MG	AS	3587	1/1	0.94	0.21	38,38,38,38	0
83	MG	AS	3445	1/1	0.94	0.28	39,39,39,39	0
83	MG	CM	1837	1/1	0.94	0.09	29,29,29,29	0
83	MG	AS	3734	1/1	0.94	0.11	40,40,40,40	0
83	MG	CM	1839	1/1	0.94	0.08	40,40,40,40	0
83	MG	AS	3735	1/1	0.94	0.12	44,44,44,44	0
83	MG	1	3538	1/1	0.94	0.18	43,43,43,43	0
83	MG	CM	1842	1/1	0.94	0.11	36,36,36,36	0
83	MG	AS	3590	1/1	0.94	0.32	38,38,38,38	0
83	MG	AS	3738	1/1	0.94	0.08	62,62,62,62	0
83	MG	AS	3739	1/1	0.94	0.10	54,54,54,54	0
83	MG	s	201	1/1	0.94	0.19	35,35,35,35	0
83	MG	AS	3450	1/1	0.94	0.15	35,35,35,35	0
83	MG	CM	1857	1/1	0.94	0.09	44,44,44,44	0
83	MG	CM	1858	1/1	0.94	0.11	55,55,55,55	0
83	MG	1	3790	1/1	0.94	0.12	31,31,31,31	0
83	MG	1	3892	1/1	0.94	0.10	39,39,39,39	0
83	MG	1	3493	1/1	0.94	0.14	33,33,33,33	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3894	1/1	0.94	0.09	45,45,45,45	0
83	MG	1	3648	1/1	0.94	0.56	35,35,35,35	0
83	MG	B	1848	1/1	0.94	0.22	33,33,33,33	0
83	MG	1	3797	1/1	0.94	0.20	58,58,58,58	0
83	MG	1	3948	1/1	0.94	0.18	40,40,40,40	0
83	MG	AS	3466	1/1	0.94	0.07	44,44,44,44	0
83	MG	1	3624	1/1	0.94	0.26	56,56,56,56	0
83	MG	AS	3610	1/1	0.94	0.31	34,34,34,34	0
83	MG	0	202	1/1	0.94	0.43	47,47,47,47	0
83	MG	1	3445	1/1	0.94	0.28	36,36,36,36	0
83	MG	1	3900	1/1	0.94	0.83	56,56,56,56	0
83	MG	6	203	1/1	0.94	0.11	43,43,43,43	0
83	MG	1	3626	1/1	0.94	0.18	30,30,30,30	0
83	MG	AS	3620	1/1	0.94	0.40	44,44,44,44	0
83	MG	1	3424	1/1	0.94	0.95	45,45,45,45	0
83	MG	1	3850	1/1	0.94	0.10	51,51,51,51	0
83	MG	AS	3623	1/1	0.94	0.21	62,62,62,62	0
83	MG	CM	1883	1/1	0.94	0.12	65,65,65,65	0
83	MG	CM	1884	1/1	0.94	0.10	44,44,44,44	0
83	MG	CM	1886	1/1	0.94	0.21	36,36,36,36	0
83	MG	AS	3485	1/1	0.94	0.09	42,42,42,42	0
83	MG	1	3655	1/1	0.94	0.18	47,47,47,47	0
83	MG	CM	1894	1/1	0.94	0.18	40,40,40,40	0
83	MG	CM	1895	1/1	0.94	0.07	32,32,32,32	0
83	MG	AS	3627	1/1	0.94	0.11	55,55,55,55	0
83	MG	1	3438	1/1	0.94	0.30	28,28,28,28	0
83	MG	CM	1898	1/1	0.94	0.10	38,38,38,38	0
83	MG	1	3688	1/1	0.94	0.09	33,33,33,33	0
83	MG	1	3805	1/1	0.94	0.21	85,85,85,85	0
83	MG	CM	1903	1/1	0.94	0.30	43,43,43,43	0
83	MG	AE	202	1/1	0.94	0.12	87,87,87,87	0
83	MG	B	1957	1/1	0.94	0.19	82,82,82,82	0
83	MG	AS	3495	1/1	0.94	0.13	37,37,37,37	0
83	MG	AS	3496	1/1	0.94	0.19	20,20,20,20	0
83	MG	AS	3637	1/1	0.94	0.15	51,51,51,51	0
83	MG	B	1866	1/1	0.94	0.28	47,47,47,47	0
83	MG	AT	203	1/1	0.94	0.23	52,52,52,52	0
83	MG	B	1867	1/1	0.94	0.21	56,56,56,56	0
83	MG	1	3759	1/1	0.94	0.26	37,37,37,37	0
83	MG	1	3807	1/1	0.94	0.08	32,32,32,32	0
83	MG	AS	3644	1/1	0.94	0.10	27,27,27,27	0
83	MG	1	3761	1/1	0.94	0.14	27,27,27,27	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	B	1963	1/1	0.94	0.38	55,55,55,55	0
83	MG	1	3606	1/1	0.94	0.48	47,47,47,47	0
83	MG	CM	1921	1/1	0.94	0.14	28,28,28,28	0
83	MG	CM	1923	1/1	0.94	0.08	39,39,39,39	0
83	MG	1	3594	1/1	0.94	0.12	55,55,55,55	0
83	MG	AS	3519	1/1	0.94	0.21	26,26,26,26	0
83	MG	AS	3520	1/1	0.94	0.15	44,44,44,44	0
83	MG	CM	1932	1/1	0.94	0.13	52,52,52,52	0
83	MG	B	1968	1/1	0.94	0.21	61,61,61,61	0
83	MG	1	3764	1/1	0.94	0.11	34,34,34,34	0
83	MG	AS	3663	1/1	0.94	0.08	56,56,56,56	0
83	MG	AS	3664	1/1	0.94	0.12	23,23,23,23	0
83	MG	1	3632	1/1	0.94	0.21	42,42,42,42	0
83	MG	1	3595	1/1	0.94	0.10	42,42,42,42	0
83	MG	1	3441	1/1	0.94	0.15	33,33,33,33	0
83	MG	B	1885	1/1	0.94	0.19	78,78,78,78	0
83	MG	1	3727	1/1	0.94	0.18	40,40,40,40	0
83	MG	1	3868	1/1	0.94	0.13	41,41,41,41	0
83	MG	Q	202	1/1	0.94	0.26	52,52,52,52	0
83	MG	1	3923	1/1	0.94	0.10	59,59,59,59	0
83	MG	1	3869	1/1	0.94	0.09	58,58,58,58	0
83	MG	AS	3537	1/1	0.94	0.17	39,39,39,39	0
83	MG	1	3772	1/1	0.94	0.23	35,35,35,35	0
83	MG	1	3401	1/1	0.94	0.16	20,20,20,20	0
83	MG	AS	3683	1/1	0.94	0.16	47,47,47,47	0
83	MG	j	301	1/1	0.94	0.14	19,19,19,19	0
83	MG	1	3823	1/1	0.94	0.08	36,36,36,36	0
83	MG	BJ	302	1/1	0.94	0.10	37,37,37,37	0
83	MG	B	1810	1/1	0.94	0.19	43,43,43,43	0
83	MG	AS	3545	1/1	0.94	0.12	29,29,29,29	0
83	MG	B	1812	1/1	0.94	0.27	33,33,33,33	0
83	MG	B	1813	1/1	0.94	0.26	46,46,46,46	0
83	MG	AS	3549	1/1	0.94	0.28	41,41,41,41	0
83	MG	AS	3695	1/1	0.94	0.12	46,46,46,46	0
83	MG	AS	3697	1/1	0.94	0.35	32,32,32,32	0
83	MG	AS	3405	1/1	0.94	0.19	26,26,26,26	0
83	MG	CA	201	1/1	0.94	0.08	40,40,40,40	0
83	MG	AS	3699	1/1	0.94	0.90	71,71,71,71	0
83	MG	1	3825	1/1	0.94	0.21	31,31,31,31	0
83	MG	B	1910	1/1	0.94	0.24	37,37,37,37	0
83	MG	AS	3703	1/1	0.94	0.20	18,18,18,18	0
83	MG	1	3613	1/1	0.94	0.15	32,32,32,32	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
86	ZN	CJ	202	1/1	0.94	0.17	173,173,173,173	0
83	MG	1	3828	1/1	0.94	0.19	35,35,35,35	0
83	MG	1	3710	1/1	0.95	0.08	21,21,21,21	0
83	MG	B	1831	1/1	0.95	0.08	39,39,39,39	0
83	MG	B	1926	1/1	0.95	0.18	46,46,46,46	0
83	MG	1	3435	1/1	0.95	0.10	23,23,23,23	0
83	MG	CM	1826	1/1	0.95	0.14	48,48,48,48	0
83	MG	1	3819	1/1	0.95	0.20	63,63,63,63	0
83	MG	CM	1830	1/1	0.95	0.20	42,42,42,42	0
83	MG	1	3672	1/1	0.95	0.08	33,33,33,33	0
83	MG	AS	3448	1/1	0.95	0.09	34,34,34,34	0
83	MG	AS	3595	1/1	0.95	0.13	52,52,52,52	0
83	MG	B	1930	1/1	0.95	0.14	48,48,48,48	0
83	MG	1	3580	1/1	0.95	0.11	32,32,32,32	0
83	MG	1	3824	1/1	0.95	0.11	47,47,47,47	0
83	MG	1	3437	1/1	0.95	0.21	19,19,19,19	0
83	MG	B	1839	1/1	0.95	0.22	55,55,55,55	0
83	MG	B	1840	1/1	0.95	0.20	59,59,59,59	0
83	MG	v	301	1/1	0.95	0.31	31,31,31,31	0
83	MG	CM	1843	1/1	0.95	0.24	34,34,34,34	0
83	MG	B	1938	1/1	0.95	0.14	35,35,35,35	0
83	MG	CM	1846	1/1	0.95	0.30	53,53,53,53	0
83	MG	B	1843	1/1	0.95	0.23	37,37,37,37	0
83	MG	CM	1849	1/1	0.95	0.14	41,41,41,41	0
83	MG	AS	3464	1/1	0.95	0.29	47,47,47,47	0
83	MG	1	3768	1/1	0.95	0.12	36,36,36,36	0
83	MG	1	3458	1/1	0.95	0.12	18,18,18,18	0
83	MG	AS	3613	1/1	0.95	0.21	37,37,37,37	0
83	MG	B	1847	1/1	0.95	0.12	41,41,41,41	0
83	MG	AS	3615	1/1	0.95	0.15	35,35,35,35	0
83	MG	AS	3469	1/1	0.95	0.21	26,26,26,26	0
83	MG	1	3886	1/1	0.95	0.22	29,29,29,29	0
83	MG	1	3555	1/1	0.95	0.33	41,41,41,41	0
83	MG	AS	3475	1/1	0.95	0.13	29,29,29,29	0
83	MG	AS	3476	1/1	0.95	0.16	20,20,20,20	0
83	MG	1	3511	1/1	0.95	0.18	16,16,16,16	0
83	MG	1	3678	1/1	0.95	0.10	32,32,32,32	0
83	MG	1	3834	1/1	0.95	0.13	65,65,65,65	0
83	MG	1	3459	1/1	0.95	0.13	27,27,27,27	0
83	MG	AS	3483	1/1	0.95	0.20	22,22,22,22	0
83	MG	AS	3629	1/1	0.95	0.06	38,38,38,38	0
83	MG	1	3641	1/1	0.95	0.12	21,21,21,21	0

*Continued on next page...*



*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3475	1/1	0.95	0.20	9,9,9,9	0
83	MG	AS	3771	1/1	0.95	0.15	47,47,47,47	0
83	MG	6	204	1/1	0.95	0.17	20,20,20,20	0
83	MG	1	3778	1/1	0.95	0.23	43,43,43,43	0
83	MG	1	3476	1/1	0.95	0.19	59,59,59,59	0
83	MG	1	3496	1/1	0.95	0.44	55,55,55,55	0
83	MG	9	201	1/1	0.95	0.12	45,45,45,45	0
83	MG	1	3645	1/1	0.95	0.11	30,30,30,30	0
83	MG	1	3956	1/1	0.95	0.15	38,38,38,38	0
83	MG	CM	1885	1/1	0.95	0.23	47,47,47,47	0
83	MG	AS	3501	1/1	0.95	0.20	55,55,55,55	0
83	MG	AS	3502	1/1	0.95	0.10	28,28,28,28	0
83	MG	1	3611	1/1	0.95	0.17	23,23,23,23	0
83	MG	CM	1891	1/1	0.95	0.24	27,27,27,27	0
83	MG	1	3612	1/1	0.95	0.20	34,34,34,34	0
83	MG	1	3430	1/1	0.95	0.22	30,30,30,30	0
83	MG	1	3786	1/1	0.95	0.08	43,43,43,43	0
83	MG	AS	3648	1/1	0.95	0.29	22,22,22,22	0
83	MG	1	3453	1/1	0.95	0.13	23,23,23,23	0
83	MG	AS	3650	1/1	0.95	0.15	27,27,27,27	0
83	MG	AS	3653	1/1	0.95	0.11	40,40,40,40	0
83	MG	AS	3512	1/1	0.95	0.19	60,60,60,60	0
83	MG	AS	3513	1/1	0.95	0.15	26,26,26,26	0
83	MG	1	3789	1/1	0.95	0.22	41,41,41,41	0
83	MG	AS	3659	1/1	0.95	0.14	69,69,69,69	0
83	MG	B	1966	1/1	0.95	0.08	41,41,41,41	0
83	MG	1	3616	1/1	0.95	0.26	34,34,34,34	0
83	MG	1	3653	1/1	0.95	0.19	34,34,34,34	0
83	MG	3	210	1/1	0.95	0.30	48,48,48,48	0
83	MG	1	3736	1/1	0.95	0.19	25,25,25,25	0
83	MG	3	212	1/1	0.95	0.28	41,41,41,41	0
83	MG	1	3853	1/1	0.95	0.30	49,49,49,49	0
83	MG	3	214	1/1	0.95	0.15	61,61,61,61	0
83	MG	B	1886	1/1	0.95	0.20	61,61,61,61	0
83	MG	1	3912	1/1	0.95	0.16	56,56,56,56	0
83	MG	AS	3674	1/1	0.95	0.20	27,27,27,27	0
83	MG	1	3591	1/1	0.95	0.17	23,23,23,23	0
83	MG	CM	1922	1/1	0.95	0.08	43,43,43,43	0
83	MG	1	3592	1/1	0.95	0.15	29,29,29,29	0
83	MG	1	3656	1/1	0.95	0.32	60,60,60,60	0
83	MG	CM	1925	1/1	0.95	0.16	47,47,47,47	0
83	MG	Y	201	1/1	0.95	0.09	39,39,39,39	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	B	1806	1/1	0.95	0.36	53,53,53,53	0
83	MG	CM	1931	1/1	0.95	0.10	42,42,42,42	0
83	MG	1	3564	1/1	0.95	0.13	39,39,39,39	0
83	MG	B	1896	1/1	0.95	0.12	54,54,54,54	0
83	MG	4	205	1/1	0.95	0.33	40,40,40,40	0
83	MG	CM	1935	1/1	0.95	0.19	48,48,48,48	0
83	MG	1	3525	1/1	0.95	0.19	53,53,53,53	0
83	MG	1	3743	1/1	0.95	0.19	29,29,29,29	0
83	MG	B	1901	1/1	0.95	0.09	69,69,69,69	0
83	MG	AS	3692	1/1	0.95	0.26	25,25,25,25	0
83	MG	1	3659	1/1	0.95	0.11	23,23,23,23	0
83	MG	1	3660	1/1	0.95	0.26	31,31,31,31	0
83	MG	B	1905	1/1	0.95	0.19	46,46,46,46	0
83	MG	BZ	203	1/1	0.95	0.23	74,74,74,74	0
83	MG	B	1907	1/1	0.95	0.07	29,29,29,29	0
83	MG	AS	3410	1/1	0.95	0.10	54,54,54,54	0
83	MG	AS	3554	1/1	0.95	0.28	45,45,45,45	0
83	MG	AS	3411	1/1	0.95	0.26	29,29,29,29	0
83	MG	B	1908	1/1	0.95	0.29	49,49,49,49	0
83	MG	1	3699	1/1	0.95	0.18	23,23,23,23	0
83	MG	1	3480	1/1	0.95	0.15	21,21,21,21	0
83	MG	AS	3417	1/1	0.95	0.24	22,22,22,22	0
83	MG	1	3664	1/1	0.95	0.12	53,53,53,53	0
83	MG	1	3465	1/1	0.95	0.10	24,24,24,24	0
83	MG	AS	3565	1/1	0.95	0.11	22,22,22,22	0
83	MG	AS	3422	1/1	0.95	0.10	55,55,55,55	0
83	MG	AS	3423	1/1	0.95	0.19	22,22,22,22	0
83	MG	1	3754	1/1	0.95	0.07	67,67,67,67	0
83	MG	1	3705	1/1	0.95	0.16	47,47,47,47	0
83	MG	AS	3426	1/1	0.95	0.13	20,20,20,20	0
83	MG	B	1916	1/1	0.95	0.20	37,37,37,37	0
83	MG	1	3570	1/1	0.95	0.56	48,48,48,48	0
83	MG	CM	1810	1/1	0.95	0.12	43,43,43,43	0
86	ZN	AH	203	1/1	0.95	0.25	122,122,122,122	0
83	MG	AS	3430	1/1	0.95	0.16	26,26,26,26	0
83	MG	CM	1813	1/1	0.95	0.40	46,46,46,46	0
83	MG	1	3505	1/1	0.95	0.09	41,41,41,41	0
83	MG	1	3577	1/1	0.95	0.14	53,53,53,53	0
83	MG	B	1921	1/1	0.95	0.15	55,55,55,55	0
83	MG	CM	1819	1/1	0.95	0.44	56,56,56,56	0
83	MG	1	3422	1/1	0.95	0.08	43,43,43,43	0
86	ZN	DS	201	1/1	0.95	0.19	134,134,134,134	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3568	1/1	0.96	0.09	24,24,24,24	0
83	MG	AS	3666	1/1	0.96	0.48	39,39,39,39	0
83	MG	AS	3774	1/1	0.96	0.25	50,50,50,50	0
83	MG	1	3532	1/1	0.96	0.13	31,31,31,31	0
83	MG	r	301	1/1	0.96	0.23	23,23,23,23	0
83	MG	1	3744	1/1	0.96	0.18	40,40,40,40	0
83	MG	AS	3572	1/1	0.96	0.16	35,35,35,35	0
83	MG	AS	3671	1/1	0.96	0.25	38,38,38,38	0
83	MG	AS	3781	1/1	0.96	0.09	54,54,54,54	0
83	MG	1	3878	1/1	0.96	0.28	57,57,57,57	0
83	MG	1	3745	1/1	0.96	0.15	31,31,31,31	0
83	MG	1	3775	1/1	0.96	0.12	38,38,38,38	0
83	MG	1	3474	1/1	0.96	0.14	29,29,29,29	0
83	MG	AS	3677	1/1	0.96	0.09	27,27,27,27	0
83	MG	AT	206	1/1	0.96	0.28	39,39,39,39	0
83	MG	3	205	1/1	0.96	0.17	46,46,46,46	0
83	MG	1	3639	1/1	0.96	0.09	34,34,34,34	0
83	MG	AS	3484	1/1	0.96	0.17	23,23,23,23	0
83	MG	1	3520	1/1	0.96	0.14	41,41,41,41	0
83	MG	B	1870	1/1	0.96	0.32	42,42,42,42	0
83	MG	AS	3684	1/1	0.96	0.18	36,36,36,36	0
83	MG	1	3448	1/1	0.96	0.14	23,23,23,23	0
83	MG	AS	3686	1/1	0.96	0.15	36,36,36,36	0
83	MG	1	3813	1/1	0.96	0.07	44,44,44,44	0
83	MG	1	3927	1/1	0.96	0.08	55,55,55,55	0
83	MG	AS	3490	1/1	0.96	0.13	39,39,39,39	0
83	MG	B	1820	1/1	0.96	0.11	38,38,38,38	0
83	MG	AS	3592	1/1	0.96	0.19	71,71,71,71	0
83	MG	1	3571	1/1	0.96	0.32	37,37,37,37	0
83	MG	AS	3494	1/1	0.96	0.06	45,45,45,45	0
83	MG	B	1877	1/1	0.96	0.21	53,53,53,53	0
83	MG	AS	3696	1/1	0.96	0.35	38,38,38,38	0
83	MG	AS	3596	1/1	0.96	0.11	29,29,29,29	0
83	MG	AZ	301	1/1	0.96	0.27	27,27,27,27	0
83	MG	1	3752	1/1	0.96	0.08	29,29,29,29	0
83	MG	AS	3499	1/1	0.96	0.24	39,39,39,39	0
83	MG	B	1823	1/1	0.96	0.23	31,31,31,31	0
83	MG	AS	3416	1/1	0.96	0.26	25,25,25,25	0
83	MG	1	3851	1/1	0.96	0.16	63,63,63,63	0
83	MG	AS	3605	1/1	0.96	0.09	21,21,21,21	0
83	MG	AS	3418	1/1	0.96	0.07	30,30,30,30	0
83	MG	2	201	1/1	0.96	0.34	43,43,43,43	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	AS	3420	1/1	0.96	0.10	42,42,42,42	0
83	MG	1	3661	1/1	0.96	0.21	25,25,25,25	0
83	MG	1	3575	1/1	0.96	0.26	26,26,26,26	0
83	MG	1	3755	1/1	0.96	0.19	35,35,35,35	0
83	MG	1	3703	1/1	0.96	0.73	43,43,43,43	0
83	MG	1	3787	1/1	0.96	0.14	34,34,34,34	0
83	MG	B	1892	1/1	0.96	0.12	46,46,46,46	0
83	MG	1	3821	1/1	0.96	0.16	63,63,63,63	0
83	MG	AS	3716	1/1	0.96	0.12	44,44,44,44	0
83	MG	1	3937	1/1	0.96	0.15	53,53,53,53	0
83	MG	AS	3718	1/1	0.96	0.08	76,76,76,76	0
83	MG	AB	201	1/1	0.96	0.14	37,37,37,37	0
83	MG	1	3822	1/1	0.96	0.11	32,32,32,32	0
83	MG	1	3522	1/1	0.96	0.13	32,32,32,32	0
83	MG	AS	3525	1/1	0.96	0.08	60,60,60,60	0
83	MG	AS	3526	1/1	0.96	0.13	30,30,30,30	0
83	MG	AS	3725	1/1	0.96	0.12	55,55,55,55	0
83	MG	AS	3527	1/1	0.96	0.23	55,55,55,55	0
83	MG	AS	3433	1/1	0.96	0.07	38,38,38,38	0
83	MG	AS	3626	1/1	0.96	0.17	50,50,50,50	0
83	MG	1	3416	1/1	0.96	0.16	27,27,27,27	0
83	MG	CM	1929	1/1	0.96	0.15	32,32,32,32	0
83	MG	CM	1930	1/1	0.96	0.15	35,35,35,35	0
83	MG	1	3666	1/1	0.96	0.19	45,45,45,45	0
83	MG	1	3646	1/1	0.96	0.10	33,33,33,33	0
83	MG	AS	3439	1/1	0.96	0.18	29,29,29,29	0
83	MG	1	3793	1/1	0.96	0.13	57,57,57,57	0
83	MG	1	3486	1/1	0.96	0.21	29,29,29,29	0
83	MG	B	1906	1/1	0.96	0.18	29,29,29,29	0
83	MG	1	3429	1/1	0.96	0.15	45,45,45,45	0
83	MG	AS	3635	1/1	0.96	0.14	37,37,37,37	0
83	MG	B	1846	1/1	0.96	0.10	58,58,58,58	0
83	MG	CM	1943	1/1	0.96	0.14	38,38,38,38	0
83	MG	CM	1812	1/1	0.96	0.09	42,42,42,42	0
83	MG	B	1964	1/1	0.96	0.14	57,57,57,57	0
83	MG	1	3832	1/1	0.96	0.07	34,34,34,34	0
83	MG	1	3711	1/1	0.96	0.21	27,27,27,27	0
83	MG	AS	3641	1/1	0.96	0.13	38,38,38,38	0
83	MG	AS	3748	1/1	0.96	0.08	33,33,33,33	0
83	MG	1	3499	1/1	0.96	0.10	24,24,24,24	0
83	MG	AS	3454	1/1	0.96	0.12	22,22,22,22	0
83	MG	1	3870	1/1	0.96	0.29	46,46,46,46	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
83	MG	AP	201	1/1	0.96	0.08	31,31,31,31	0
83	MG	B	1971	1/1	0.96	0.24	63,63,63,63	0
83	MG	AS	3550	1/1	0.96	0.31	37,37,37,37	0
83	MG	CM	1827	1/1	0.96	0.30	38,38,38,38	0
83	MG	CM	1828	1/1	0.96	0.13	50,50,50,50	0
83	MG	1	3513	1/1	0.96	0.16	32,32,32,32	0
83	MG	B	1915	1/1	0.96	0.10	46,46,46,46	0
83	MG	AS	3460	1/1	0.96	0.16	24,24,24,24	0
83	MG	DJ	201	1/1	0.96	0.15	29,29,29,29	0
83	MG	CM	1832	1/1	0.96	0.22	32,32,32,32	0
83	MG	AS	3651	1/1	0.96	0.12	28,28,28,28	0
83	MG	CM	1834	1/1	0.96	0.28	54,54,54,54	0
83	MG	AS	3461	1/1	0.96	0.21	23,23,23,23	0
83	MG	AS	3760	1/1	0.96	0.76	70,70,70,70	0
83	MG	G	301	1/1	0.96	0.16	82,82,82,82	0
83	MG	1	3500	1/1	0.96	0.14	36,36,36,36	0
83	MG	1	3455	1/1	0.96	0.21	26,26,26,26	0
83	MG	AS	3657	1/1	0.96	0.09	30,30,30,30	0
86	ZN	c	201	1/1	0.96	0.15	71,71,71,71	0
83	MG	AS	3658	1/1	0.96	0.28	37,37,37,37	0
83	MG	B	1918	1/1	0.96	0.17	32,32,32,32	0
83	MG	1	3472	1/1	0.96	0.05	23,23,23,23	0
86	ZN	CE	101	1/1	0.96	0.10	66,66,66,66	0
83	MG	B	1803	1/1	0.96	0.25	39,39,39,39	0
86	ZN	DN	201	1/1	0.96	0.15	69,69,69,69	0
83	MG	AS	3567	1/1	0.96	0.30	22,22,22,22	0
83	MG	CM	1847	1/1	0.96	0.31	44,44,44,44	0
83	MG	AS	3509	1/1	0.97	0.19	32,32,32,32	0
83	MG	CM	1860	1/1	0.97	0.12	31,31,31,31	0
83	MG	AS	3689	1/1	0.97	0.29	59,59,59,59	0
83	MG	CM	1862	1/1	0.97	0.24	62,62,62,62	0
83	MG	AS	3429	1/1	0.97	0.15	23,23,23,23	0
83	MG	AT	209	1/1	0.97	0.28	53,53,53,53	0
83	MG	1	3829	1/1	0.97	0.22	44,44,44,44	0
83	MG	1	3747	1/1	0.97	0.07	26,26,26,26	0
83	MG	CM	1867	1/1	0.97	0.15	60,60,60,60	0
83	MG	AS	3603	1/1	0.97	0.44	49,49,49,49	0
83	MG	AS	3604	1/1	0.97	0.07	37,37,37,37	0
83	MG	1	3489	1/1	0.97	0.18	44,44,44,44	0
83	MG	B	1842	1/1	0.97	0.09	29,29,29,29	0
83	MG	1	3713	1/1	0.97	0.10	39,39,39,39	0
83	MG	1	3439	1/1	0.97	0.09	28,28,28,28	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	4	206	1/1	0.97	0.03	27,27,27,27	0
83	MG	1	3420	1/1	0.97	0.14	33,33,33,33	0
83	MG	1	3408	1/1	0.97	0.20	33,33,33,33	0
83	MG	AS	3702	1/1	0.97	0.17	31,31,31,31	0
83	MG	AS	3442	1/1	0.97	0.23	32,32,32,32	0
83	MG	1	3443	1/1	0.97	0.14	50,50,50,50	0
83	MG	AS	3444	1/1	0.97	0.21	34,34,34,34	0
83	MG	B	1849	1/1	0.97	0.22	43,43,43,43	0
83	MG	1	3837	1/1	0.97	0.26	41,41,41,41	0
83	MG	1	3794	1/1	0.97	0.08	32,32,32,32	0
83	MG	AS	3619	1/1	0.97	0.07	42,42,42,42	0
83	MG	B	1970	1/1	0.97	0.15	59,59,59,59	0
83	MG	1	3795	1/1	0.97	0.38	39,39,39,39	0
83	MG	1	3887	1/1	0.97	0.18	46,46,46,46	0
83	MG	CM	1890	1/1	0.97	0.16	30,30,30,30	0
83	MG	AS	3713	1/1	0.97	0.15	28,28,28,28	0
83	MG	CM	1892	1/1	0.97	0.18	28,28,28,28	0
83	MG	AS	3452	1/1	0.97	0.24	28,28,28,28	0
83	MG	1	3478	1/1	0.97	0.23	22,22,22,22	0
83	MG	1	3516	1/1	0.97	0.31	33,33,33,33	0
83	MG	1	3406	1/1	0.97	0.29	32,32,32,32	0
83	MG	AS	3536	1/1	0.97	0.20	31,31,31,31	0
83	MG	1	3411	1/1	0.97	0.26	24,24,24,24	0
83	MG	1	3481	1/1	0.97	0.12	31,31,31,31	0
83	MG	CM	1902	1/1	0.97	0.09	33,33,33,33	0
83	MG	1	3689	1/1	0.97	0.51	63,63,63,63	0
83	MG	CM	1904	1/1	0.97	0.10	34,34,34,34	0
83	MG	1	3760	1/1	0.97	0.17	37,37,37,37	0
83	MG	1	3540	1/1	0.97	0.39	37,37,37,37	0
83	MG	1	3436	1/1	0.97	0.23	28,28,28,28	0
83	MG	AS	3726	1/1	0.97	0.23	56,56,56,56	0
83	MG	AS	3462	1/1	0.97	0.13	34,34,34,34	0
83	MG	1	3568	1/1	0.97	0.07	24,24,24,24	0
83	MG	Y	202	1/1	0.97	0.47	66,66,66,66	0
83	MG	AS	3731	1/1	0.97	0.33	35,35,35,35	0
83	MG	1	3569	1/1	0.97	0.15	27,27,27,27	0
83	MG	1	3630	1/1	0.97	0.19	23,23,23,23	0
83	MG	AS	3551	1/1	0.97	0.23	32,32,32,32	0
83	MG	AS	3640	1/1	0.97	0.08	48,48,48,48	0
83	MG	AS	3552	1/1	0.97	0.18	20,20,20,20	0
83	MG	B	1811	1/1	0.97	0.13	24,24,24,24	0
83	MG	CM	1920	1/1	0.97	0.09	45,45,45,45	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3415	1/1	0.97	0.24	36,36,36,36	0
83	MG	AS	3555	1/1	0.97	0.10	36,36,36,36	0
83	MG	AS	3740	1/1	0.97	0.07	69,69,69,69	0
83	MG	1	3809	1/1	0.97	0.18	37,37,37,37	0
83	MG	B	1932	1/1	0.97	0.08	24,24,24,24	0
83	MG	AS	3743	1/1	0.97	0.06	40,40,40,40	0
83	MG	CM	1807	1/1	0.97	0.20	35,35,35,35	0
83	MG	1	3767	1/1	0.97	0.17	24,24,24,24	0
83	MG	1	3545	1/1	0.97	0.27	34,34,34,34	0
83	MG	AS	3406	1/1	0.97	0.18	34,34,34,34	0
83	MG	1	3769	1/1	0.97	0.17	22,22,22,22	0
83	MG	AS	3479	1/1	0.97	0.08	21,21,21,21	0
83	MG	AS	3652	1/1	0.97	0.10	31,31,31,31	0
83	MG	1	3731	1/1	0.97	0.18	20,20,20,20	0
83	MG	AS	3566	1/1	0.97	0.08	32,32,32,32	0
83	MG	AS	3481	1/1	0.97	0.17	25,25,25,25	0
83	MG	CM	1938	1/1	0.97	0.19	44,44,44,44	0
83	MG	CM	1939	1/1	0.97	0.91	64,64,64,64	0
83	MG	B	1818	1/1	0.97	0.29	24,24,24,24	0
83	MG	1	3572	1/1	0.97	0.68	52,52,52,52	0
83	MG	B	1879	1/1	0.97	0.16	27,27,27,27	0
83	MG	1	3573	1/1	0.97	0.26	27,27,27,27	0
83	MG	CM	1823	1/1	0.97	0.39	37,37,37,37	0
83	MG	1	3734	1/1	0.97	0.11	28,28,28,28	0
83	MG	AS	3661	1/1	0.97	0.12	87,87,87,87	0
83	MG	AS	3662	1/1	0.97	0.10	76,76,76,76	0
83	MG	AS	3414	1/1	0.97	0.35	28,28,28,28	0
83	MG	1	3911	1/1	0.97	0.56	39,39,39,39	0
83	MG	AS	3762	1/1	0.97	0.06	38,38,38,38	0
83	MG	B	1883	1/1	0.97	0.30	39,39,39,39	0
83	MG	AS	3576	1/1	0.97	0.13	44,44,44,44	0
83	MG	1	3574	1/1	0.97	0.40	36,36,36,36	0
83	MG	AS	3578	1/1	0.97	0.12	31,31,31,31	0
83	MG	1	3523	1/1	0.97	0.37	31,31,31,31	0
83	MG	AS	3492	1/1	0.97	0.12	30,30,30,30	0
83	MG	1	3638	1/1	0.97	0.18	32,32,32,32	0
83	MG	AS	3770	1/1	0.97	0.10	31,31,31,31	0
83	MG	1	3471	1/1	0.97	0.12	39,39,39,39	0
83	MG	AS	3584	1/1	0.97	0.14	42,42,42,42	0
83	MG	1	3504	1/1	0.97	0.07	22,22,22,22	0
83	MG	1	3431	1/1	0.97	0.08	31,31,31,31	0
83	MG	1	3506	1/1	0.97	0.10	22,22,22,22	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
83	MG	AS	3500	1/1	0.97	0.21	31,31,31,31	0
83	MG	CM	1844	1/1	0.97	0.19	32,32,32,32	0
83	MG	1	3551	1/1	0.97	0.18	22,22,22,22	0
83	MG	AS	3778	1/1	0.97	0.09	32,32,32,32	0
83	MG	AS	3680	1/1	0.97	0.19	33,33,33,33	0
83	MG	1	3552	1/1	0.97	0.13	45,45,45,45	0
83	MG	1	3473	1/1	0.97	0.19	23,23,23,23	0
83	MG	CM	1850	1/1	0.97	0.17	42,42,42,42	0
83	MG	1	3827	1/1	0.97	0.14	47,47,47,47	0
83	MG	AS	3505	1/1	0.97	0.08	41,41,41,41	0
83	MG	AS	3506	1/1	0.97	0.08	39,39,39,39	0
83	MG	CM	1855	1/1	0.97	0.19	41,41,41,41	0
86	ZN	CK	103	1/1	0.97	0.13	87,87,87,87	0
83	MG	CM	1856	1/1	0.97	0.15	25,25,25,25	0
83	MG	1	3488	1/1	0.97	0.20	26,26,26,26	0
86	ZN	DQ	102	1/1	0.97	0.26	55,55,55,55	0
83	MG	AS	3508	1/1	0.97	0.19	25,25,25,25	0
83	MG	AG	203	1/1	0.98	0.07	39,39,39,39	0
83	MG	AS	3601	1/1	0.98	0.08	55,55,55,55	0
83	MG	1	3482	1/1	0.98	0.23	28,28,28,28	0
83	MG	1	3617	1/1	0.98	0.22	25,25,25,25	0
83	MG	1	3636	1/1	0.98	0.16	38,38,38,38	0
83	MG	1	3449	1/1	0.98	0.27	24,24,24,24	0
83	MG	AS	3543	1/1	0.98	0.10	54,54,54,54	0
83	MG	B	1878	1/1	0.98	0.17	64,64,64,64	0
83	MG	1	3741	1/1	0.98	0.16	28,28,28,28	0
83	MG	AS	3546	1/1	0.98	0.24	21,21,21,21	0
83	MG	1	3447	1/1	0.98	0.20	21,21,21,21	0
83	MG	1	3916	1/1	0.98	0.12	73,73,73,73	0
83	MG	AS	3676	1/1	0.98	0.17	15,15,15,15	0
83	MG	1	3501	1/1	0.98	0.26	31,31,31,31	0
83	MG	x	201	1/1	0.98	0.16	23,23,23,23	0
83	MG	B	1884	1/1	0.98	0.24	41,41,41,41	0
83	MG	AS	3437	1/1	0.98	0.07	61,61,61,61	0
83	MG	BE	301	1/1	0.98	0.22	25,25,25,25	0
83	MG	1	3791	1/1	0.98	0.14	28,28,28,28	0
83	MG	K	301	1/1	0.98	0.14	52,52,52,52	0
83	MG	1	3563	1/1	0.98	0.07	29,29,29,29	0
83	MG	AS	3441	1/1	0.98	0.10	28,28,28,28	0
83	MG	AS	3557	1/1	0.98	0.16	29,29,29,29	0
83	MG	CM	1928	1/1	0.98	0.08	52,52,52,52	0
83	MG	CM	1851	1/1	0.98	0.12	27,27,27,27	0

*Continued on next page...*



*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	1	3623	1/1	0.98	0.30	51,51,51,51	0
83	MG	AS	3497	1/1	0.98	0.20	26,26,26,26	0
83	MG	BK	201	1/1	0.98	0.11	22,22,22,22	0
83	MG	AS	3498	1/1	0.98	0.22	36,36,36,36	0
83	MG	B	1888	1/1	0.98	0.27	53,53,53,53	0
83	MG	AS	3562	1/1	0.98	0.07	35,35,35,35	0
83	MG	1	3949	1/1	0.98	0.17	49,49,49,49	0
83	MG	4	208	1/1	0.98	0.07	27,27,27,27	0
83	MG	BZ	201	1/1	0.98	0.08	38,38,38,38	0
83	MG	1	3512	1/1	0.98	0.14	33,33,33,33	0
83	MG	CM	1940	1/1	0.98	0.08	59,59,59,59	0
83	MG	6	201	1/1	0.98	0.11	37,37,37,37	0
83	MG	6	202	1/1	0.98	0.12	40,40,40,40	0
83	MG	AS	3449	1/1	0.98	0.09	12,12,12,12	0
83	MG	1	3662	1/1	0.98	0.14	32,32,32,32	0
83	MG	B	1895	1/1	0.98	0.23	40,40,40,40	0
83	MG	1	3492	1/1	0.98	0.14	47,47,47,47	0
83	MG	B	1897	1/1	0.98	0.16	52,52,52,52	0
83	MG	1	3704	1/1	0.98	0.16	34,34,34,34	0
83	MG	AS	3403	1/1	0.98	0.19	17,17,17,17	0
83	MG	CM	1871	1/1	0.98	0.20	45,45,45,45	0
83	MG	B	1854	1/1	0.98	0.14	29,29,29,29	0
83	MG	1	3460	1/1	0.98	0.12	39,39,39,39	0
83	MG	1	3494	1/1	0.98	0.17	24,24,24,24	0
83	MG	1	3899	1/1	0.98	0.13	33,33,33,33	0
83	MG	AS	3579	1/1	0.98	0.08	46,46,46,46	0
83	MG	B	1903	1/1	0.98	0.38	82,82,82,82	0
83	MG	AS	3518	1/1	0.98	0.08	26,26,26,26	0
83	MG	1	3461	1/1	0.98	0.13	28,28,28,28	0
83	MG	B	1819	1/1	0.98	0.06	44,44,44,44	0
83	MG	3	201	1/1	0.98	0.14	21,21,21,21	0
83	MG	1	3517	1/1	0.98	0.13	36,36,36,36	0
83	MG	AS	3586	1/1	0.98	0.21	20,20,20,20	0
83	MG	AS	3465	1/1	0.98	0.18	22,22,22,22	0
83	MG	1	3543	1/1	0.98	0.26	32,32,32,32	0
83	MG	1	3649	1/1	0.98	0.12	41,41,41,41	0
83	MG	1	3410	1/1	0.98	0.04	18,18,18,18	0
83	MG	CM	1888	1/1	0.98	0.18	51,51,51,51	0
83	MG	CM	1815	1/1	0.98	0.12	32,32,32,32	0
86	ZN	AK	102	1/1	0.98	0.15	53,53,53,53	0
86	ZN	AN	101	1/1	0.98	0.19	71,71,71,71	0
83	MG	1	3712	1/1	0.98	0.14	23,23,23,23	0

*Continued on next page...*

*Continued from previous page...*

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
83	MG	CM	1817	1/1	0.98	0.22	42,42,42,42	0
83	MG	1	3906	1/1	0.98	0.09	38,38,38,38	0
83	MG	1	3614	1/1	0.98	0.27	31,31,31,31	0
86	ZN	f	101	1/1	0.98	0.24	80,80,80,80	0
83	MG	AS	3472	1/1	0.98	0.29	31,31,31,31	0
83	MG	AS	3474	1/1	0.98	0.12	29,29,29,29	0
83	MG	B	1868	1/1	0.98	0.31	68,68,68,68	0
83	MG	B	1829	1/1	0.98	0.12	56,56,56,56	0
83	MG	AU	201	1/1	0.98	0.06	21,21,21,21	0
83	MG	1	3881	1/1	0.98	0.08	26,26,26,26	0
83	MG	CM	1901	1/1	0.98	0.14	14,14,14,14	0
83	MG	1	3463	1/1	0.98	0.09	22,22,22,22	0
83	MG	AS	3729	1/1	0.98	0.17	32,32,32,32	0
83	MG	AS	3434	1/1	0.99	0.07	55,55,55,55	0
83	MG	CM	1911	1/1	0.99	0.19	30,30,30,30	0
83	MG	AS	3723	1/1	0.99	0.14	23,23,23,23	0
83	MG	AS	3618	1/1	0.99	0.15	35,35,35,35	0
83	MG	AS	3404	1/1	0.99	0.25	26,26,26,26	0
83	MG	1	3425	1/1	0.99	0.18	19,19,19,19	0
83	MG	1	3855	1/1	0.99	0.17	32,32,32,32	0
83	MG	AS	3541	1/1	0.99	0.26	25,25,25,25	0
83	MG	CM	1893	1/1	0.99	0.22	30,30,30,30	0
83	MG	1	3785	1/1	0.99	0.22	32,32,32,32	0
83	MG	1	3542	1/1	0.99	0.10	39,39,39,39	0
83	MG	AS	3524	1/1	0.99	0.16	50,50,50,50	0
83	MG	B	1824	1/1	0.99	0.09	30,30,30,30	0
83	MG	AS	3473	1/1	0.99	0.09	25,25,25,25	0
83	MG	1	3407	1/1	0.99	0.23	35,35,35,35	0
83	MG	B	1836	1/1	0.99	0.12	27,27,27,27	0
83	MG	1	3875	1/1	0.99	0.08	33,33,33,33	0
83	MG	1	3404	1/1	0.99	0.18	28,28,28,28	0
83	MG	1	3620	1/1	0.99	0.35	27,27,27,27	0
86	ZN	CH	101	1/1	0.99	0.20	63,63,63,63	0
83	MG	B	1873	1/1	0.99	0.26	44,44,44,44	0
83	MG	B	1922	1/1	0.99	0.05	38,38,38,38	0
83	MG	AX	402	1/1	0.99	0.20	25,25,25,25	0
83	MG	1	3440	1/1	0.99	0.11	32,32,32,32	0
83	MG	AS	3516	1/1	0.99	0.15	27,27,27,27	0
83	MG	B	1950	1/1	0.99	0.19	49,49,49,49	0

## 6.5 Other polymers [i](#)

There are no such residues in this entry.