



# Full wwPDB X-ray Structure Validation Report ⓘ

Mar 29, 2026 – 09:57 AM UTC

PDB ID : 4V51 / pdb\_00004v51  
Title : Structure of the Thermus thermophilus 70S ribosome complexed with mRNA, tRNA and paromomycin  
Authors : Selmer, M.; Dunham, C.M.; Murphy, F.V.; Weixlbaumer, A.; Petry, S.; Weir, J.R.; Kelley, A.C.; Ramakrishnan, V.  
Deposited on : 2006-07-31  
Resolution : 2.80 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>.

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

MolProbity : **FAILED**  
Mogul : 2022.3.0, CSD as543be (2022)  
Xtriage (Phenix) : 2.0  
EDS : 3.0  
Buster-report : wwPDB partial adaption of 1.1.7 (2018)  
Percentile statistics : 20250101.v01 (using entries in the PDB archive January 1st 2025)  
CCP4 : 9.0.010 (Gargrove)  
Density-Fitness : 1.0.12  
Ideal geometry (proteins) : Engh & Huber (2001)  
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)  
Validation Pipeline (wwPDB-VP) : 2.49

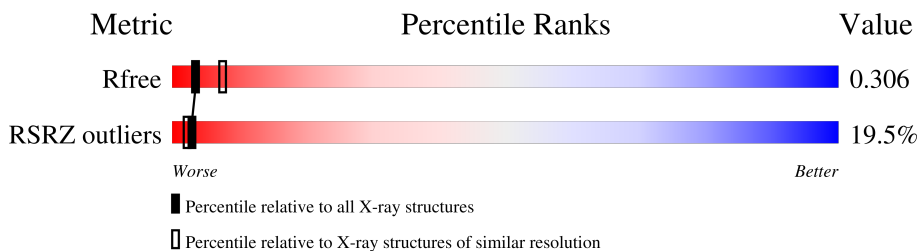
# 1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

*X-RAY DIFFRACTION*

The reported resolution of this entry is 2.80 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))
$R_{free}$	180053	3866 (2.80-2.80)
RSRZ outliers	180081	3869 (2.80-2.80)

MolProbity failed to run properly - the sequence quality summary graphics cannot be shown.

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
56	MG	AA	1697	-	-	-	X
56	MG	BA	3428	-	-	-	X
56	MG	CA	1673	-	-	-	X
56	MG	CA	1685	-	-	-	X
56	MG	CA	1719	-	-	-	X
56	MG	CX	102	-	-	-	X
56	MG	DA	3213	-	-	-	X
56	MG	DA	3219	-	-	-	X
56	MG	DA	3255	-	-	-	X
56	MG	DA	3261	-	-	-	X
56	MG	DA	3275	-	-	-	X

## 2 Entry composition [i](#)

There are 58 unique types of molecules in this entry. The entry contains 291075 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 16S ribosomal RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	P			
1	AA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0
1	CA	1504	Total 32329	C 14390	N 5992	O 10444	P 1503	0	0	0

- Molecule 2 is a protein called 30S RIBOSOMAL PROTEIN S2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
2	AB	235	Total 1901	C 1213	N 342	O 341	S 5	0	0	1
2	CB	235	Total 1901	C 1213	N 342	O 341	S 5	0	0	1

- Molecule 3 is a protein called 30S RIBOSOMAL PROTEIN S3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
3	AC	207	Total 1613	C 1016	N 315	O 281	S 1	0	0	1
3	CC	207	Total 1613	C 1016	N 315	O 281	S 1	0	0	1

- Molecule 4 is a protein called 30S RIBOSOMAL PROTEIN S4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
4	AD	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0
4	CD	208	Total 1703	C 1066	N 339	O 291	S 7	0	0	0

- Molecule 5 is a protein called 30S RIBOSOMAL PROTEIN S5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
5	AE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			
5	CE	151	Total	C	N	O	S	0	0	1
			1147	724	218	201	4			

- Molecule 6 is a protein called 30S RIBOSOMAL PROTEIN S6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
6	AF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			
6	CF	101	Total	C	N	O	S	0	0	0
			843	531	155	154	3			

- Molecule 7 is a protein called 30S RIBOSOMAL PROTEIN S7.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
7	AG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			
7	CG	155	Total	C	N	O	S	0	0	0
			1257	781	252	218	6			

- Molecule 8 is a protein called 30S RIBOSOMAL PROTEIN S8.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
8	AH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			
8	CH	138	Total	C	N	O	S	0	0	0
			1116	705	215	193	3			

- Molecule 9 is a protein called 30S RIBOSOMAL PROTEIN S9.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
9	AI	127	Total	C	N	O	0	0	0
			1011	639	198	174			
9	CI	127	Total	C	N	O	0	0	0
			1011	639	198	174			

- Molecule 10 is a protein called 30S RIBOSOMAL PROTEIN S10.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	AJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
10	CJ	99	Total	C	N	O	S	0	0	1
			795	499	157	138	1			

- Molecule 11 is a protein called 30S RIBOSOMAL PROTEIN S11.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
11	AK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			
11	CK	119	Total	C	N	O	S	0	0	0
			885	549	168	165	3			

- Molecule 12 is a protein called 30S RIBOSOMAL PROTEIN S12.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
12	AL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			
12	CL	125	Total	C	N	O	S	0	0	1
			971	611	196	163	1			

- Molecule 13 is a protein called 30S RIBOSOMAL PROTEIN S13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
13	AM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			
13	CM	125	Total	C	N	O	S	0	0	1
			988	611	206	169	2			

- Molecule 14 is a protein called 30S RIBOSOMAL PROTEIN S14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
14	AN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			
14	CN	60	Total	C	N	O	S	0	0	0
			492	312	104	72	4			

- Molecule 15 is a protein called 30S RIBOSOMAL PROTEIN S15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
15	AO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			
15	CO	88	Total	C	N	O	S	0	0	0
			734	459	147	126	2			

- Molecule 16 is a protein called 30S RIBOSOMAL PROTEIN S16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
16	AP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			
16	CP	84	Total	C	N	O	S	0	0	1
			701	443	140	117	1			

- Molecule 17 is a protein called 30S RIBOSOMAL PROTEIN S17.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
17	AQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			
17	CQ	100	Total	C	N	O	S	0	0	1
			824	528	152	142	2			

- Molecule 18 is a protein called 30S RIBOSOMAL PROTEIN S18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
18	AR	70	Total	C	N	O	0	0	0
			574	367	112	95			
18	CR	70	Total	C	N	O	0	0	0
			574	367	112	95			

- Molecule 19 is a protein called 30S RIBOSOMAL PROTEIN S19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
19	AS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			
19	CS	79	Total	C	N	O	S	0	0	1
			630	403	115	110	2			

- Molecule 20 is a protein called 30S RIBOSOMAL PROTEIN S20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
20	AT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			
20	CT	99	Total	C	N	O	S	0	0	0
			763	470	162	129	2			

- Molecule 21 is a protein called 30S RIBOSOMAL PROTEIN THX.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
21	AU	25	Total	C	N	O	0	0	1
			209	128	51	30			
21	CU	25	Total	C	N	O	0	0	1
			209	128	51	30			

- Molecule 22 is a RNA chain called P-SITE TRNA FMET (UNMODIFIED BASES EXCEPT FOR THYMINE 54).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
22	AV	77	Total	C	N	O	P	0	0	0
			1645	733	297	538	77			
22	CV	77	Total	C	N	O	P	0	0	0
			1645	733	297	538	77			

- Molecule 23 is a RNA chain called E-SITE TRNA PHE OR A-SITE TRNA PHE (UNMODIFIED BASES).

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
23	AW	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
23	AY	19	Total	C	N	O	P	0	0	0
			407	183	78	128	18			
23	CW	76	Total	C	N	O	P	0	0	0
			1623	723	290	534	76			
23	CY	19	Total	C	N	O	P	0	0	0
			407	183	78	128	18			

- Molecule 24 is a RNA chain called MRNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
24	AX	11	Total	C	N	O	P	0	0	0
			235	106	44	74	11			
24	CX	11	Total	C	N	O	P	0	0	0
			235	106	44	74	11			

- Molecule 25 is a protein called 50S RIBOSOMAL PROTEIN L27.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
25	B0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			
25	D0	85	Total	C	N	O	S	0	0	0
			650	401	137	111	1			

- Molecule 26 is a protein called 50S RIBOSOMAL PROTEIN L28.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
26	B1	89	Total	C	N	O	0	0	1
			693	435	140	118			
26	D1	89	Total	C	N	O	0	0	1
			693	435	140	118			

- Molecule 27 is a protein called 50S RIBOSOMAL PROTEIN L29.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
27	B2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			
27	D2	51	Total	C	N	O	S	0	0	1
			421	263	85	72	1			

- Molecule 28 is a protein called 50S RIBOSOMAL PROTEIN L30.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
28	B3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			
28	D3	60	Total	C	N	O	S	0	0	1
			468	298	91	78	1			

- Molecule 29 is a protein called 50S RIBOSOMAL PROTEIN L31.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
29	B4	50	Total	C	N	O	0	0	1
			242	143	50	49			
29	D4	50	Total	C	N	O	0	0	1
			242	143	50	49			

- Molecule 30 is a protein called 50S RIBOSOMAL PROTEIN L32.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
30	B5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			
30	D5	59	Total	C	N	O	S	0	0	0
			459	288	90	76	5			

- Molecule 31 is a protein called 50S RIBOSOMAL PROTEIN L33.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
31	B6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			
31	D6	45	Total	C	N	O	S	0	0	1
			381	235	78	64	4			

- Molecule 32 is a protein called 50S RIBOSOMAL PROTEIN L34.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
32	B7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			
32	D7	49	Total	C	N	O	S	0	0	1
			419	257	105	55	2			

- Molecule 33 is a protein called 50S RIBOSOMAL PROTEIN L35.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
33	B8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			
33	D8	64	Total	C	N	O	S	0	0	1
			508	326	102	78	2			

- Molecule 34 is a RNA chain called 23S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
34	BA	2772	Total	C	N	O	P	0	0	0
			59708	26573	11171	19193	2771			
34	DA	2772	Total	C	N	O	P	0	0	0
			59708	26573	11171	19193	2771			

- Molecule 35 is a RNA chain called 5S RIBOSOMAL RNA.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
35	BB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			
35	DB	119	Total	C	N	O	P	0	0	0
			2551	1136	471	826	118			

- Molecule 36 is a protein called 50S RIBOSOMAL PROTEIN L1.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
36	BC	191	Total	C	N	O	0	0	1
			1142	691	221	230			

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Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
36	DC	191	1142	691	221	230	0	0	1

- Molecule 37 is a protein called 50S RIBOSOMAL PROTEIN L2.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
37	BD	272	2105	1329	417	356	3	0	0	1
37	DD	272	2105	1329	417	356	3	0	0	1

- Molecule 38 is a protein called 50S RIBOSOMAL PROTEIN L3.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
38	BE	205	1564	988	300	270	6	0	0	1
38	DE	205	1564	988	300	270	6	0	0	1

- Molecule 39 is a protein called 50S RIBOSOMAL PROTEIN L4.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
39	BF	208	1624	1035	304	282	3	0	0	1
39	DF	208	1624	1035	304	282	3	0	0	1

- Molecule 40 is a protein called 50S RIBOSOMAL PROTEIN L5.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
40	BG	181	1474	942	268	260	4	0	0	0
40	DG	181	1474	942	268	260	4	0	0	0

- Molecule 41 is a protein called 50S RIBOSOMAL PROTEIN L6.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
41	BH	160	1223	773	229	220	1	0	0	1
41	DH	160	1223	773	229	220	1	0	0	1

- Molecule 42 is a protein called 50S RIBOSOMAL PROTEIN L9.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
42	BI	146	1132	723	201	207	1	0	0	1
42	DI	146	1132	723	201	207	1	0	0	1

- Molecule 43 is a protein called 50S RIBOSOMAL PROTEIN L13.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
43	BN	139	1105	712	207	182	4	0	0	1
43	DN	139	1105	712	207	182	4	0	0	1

- Molecule 44 is a protein called 50S RIBOSOMAL PROTEIN L14.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
44	BO	122	933	588	171	170	4	0	0	0
44	DO	122	933	588	171	170	4	0	0	0

- Molecule 45 is a protein called 50S RIBOSOMAL PROTEIN L15.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
45	BP	146	1114	692	227	193	2	0	0	0
45	DP	146	1114	692	227	193	2	0	0	0

- Molecule 46 is a protein called 50S RIBOSOMAL PROTEIN L16.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
46	BQ	136	1080	688	204	183	5	0	0	0
46	DQ	136	1080	688	204	183	5	0	0	0

- Molecule 47 is a protein called 50S RIBOSOMAL PROTEIN L17.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
47	BR	117	Total	C	N	O	0	0	0
			960	599	202	159			
47	DR	117	Total	C	N	O	0	0	0
			960	599	202	159			

- Molecule 48 is a protein called 50S RIBOSOMAL PROTEIN L18.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
48	BS	99	Total	C	N	O	0	0	1
			771	486	155	130			
48	DS	99	Total	C	N	O	0	0	1
			771	486	155	130			

- Molecule 49 is a protein called 50S RIBOSOMAL PROTEIN L19.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
49	BT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			
49	DT	138	Total	C	N	O	S	0	0	1
			1142	710	235	196	1			

- Molecule 50 is a protein called 50S RIBOSOMAL PROTEIN L20.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
50	BU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			
50	DU	117	Total	C	N	O	S	0	0	0
			958	604	202	151	1			

- Molecule 51 is a protein called 50S RIBOSOMAL PROTEIN L21.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
51	BV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			
51	DV	101	Total	C	N	O	S	0	0	0
			779	501	142	135	1			

- Molecule 52 is a protein called 50S RIBOSOMAL PROTEIN L22.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
52	BW	113	Total	C	N	O	S	0	0	0
			896	563	176	155	2			

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Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
52	DW	113	Total 896	C 563	N 176	O 155	S 2	0	0	0

- Molecule 53 is a protein called 50S RIBOSOMAL PROTEIN L23.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
53	BX	93	Total 726	C 471	N 132	O 123	0	0	1
53	DX	93	Total 726	C 471	N 132	O 123	0	0	1

- Molecule 54 is a protein called 50S RIBOSOMAL PROTEIN L24.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
54	BY	101	Total 776	C 500	N 149	O 123	S 4	0	0	1
54	DY	101	Total 776	C 500	N 149	O 123	S 4	0	0	1

- Molecule 55 is a protein called 50S RIBOSOMAL PROTEIN L25.

Mol	Chain	Residues	Atoms					ZeroOcc	AltConf	Trace
			Total	C	N	O	S			
55	BZ	177	Total 1404	C 897	N 253	O 252	S 2	0	0	1
55	DZ	177	Total 1404	C 897	N 253	O 252	S 2	0	0	1

- Molecule 56 is MAGNESIUM ION (CCD ID: MG) (formula: Mg).

Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	AA	215	Total 215 Mg 215	0	0
56	AE	1	Total 1 Mg 1	0	0
56	AV	7	Total 7 Mg 7	0	0
56	AW	22	Total 22 Mg 22	0	0
56	AX	4	Total 4 Mg 4	0	0
56	AY	1	Total 1 Mg 1	0	0

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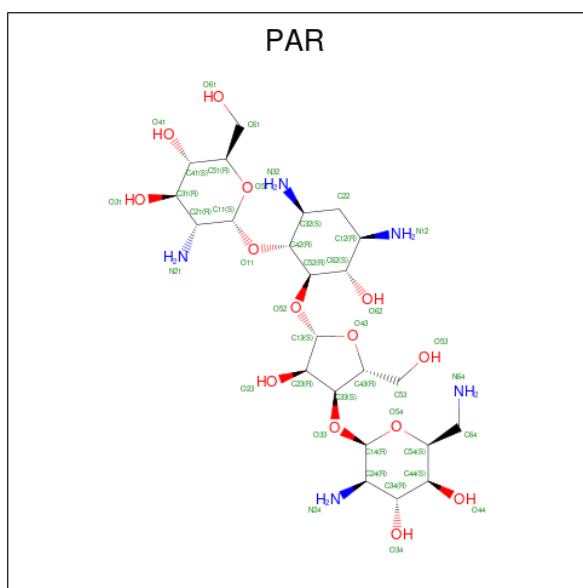
Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
56	B1	1	Total 1	Mg 1	0	0
56	B2	5	Total 5	Mg 5	0	0
56	B3	1	Total 1	Mg 1	0	0
56	B5	2	Total 2	Mg 2	0	0
56	B7	2	Total 2	Mg 2	0	0
56	BA	454	Total 454	Mg 454	0	0
56	BB	19	Total 19	Mg 19	0	0
56	BE	1	Total 1	Mg 1	0	0
56	BF	2	Total 2	Mg 2	0	0
56	BN	1	Total 1	Mg 1	0	0
56	BO	1	Total 1	Mg 1	0	0
56	BV	1	Total 1	Mg 1	0	0
56	BX	1	Total 1	Mg 1	0	0
56	CA	189	Total 189	Mg 189	0	0
56	CF	1	Total 1	Mg 1	0	0
56	CJ	1	Total 1	Mg 1	0	0
56	CM	1	Total 1	Mg 1	0	0
56	CU	1	Total 1	Mg 1	0	0
56	CV	4	Total 4	Mg 4	0	0
56	CW	13	Total 13	Mg 13	0	0
56	CX	6	Total 6	Mg 6	0	0

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Mol	Chain	Residues	Atoms	ZeroOcc	AltConf
56	D5	2	Total Mg 2 2	0	0
56	DA	398	Total Mg 398 398	0	0
56	DB	12	Total Mg 12 12	0	0
56	DD	2	Total Mg 2 2	0	0
56	DE	1	Total Mg 1 1	0	0
56	DF	1	Total Mg 1 1	0	0
56	DH	1	Total Mg 1 1	0	0
56	DN	1	Total Mg 1 1	0	0
56	DO	1	Total Mg 1 1	0	0
56	DS	1	Total Mg 1 1	0	0
56	DU	1	Total Mg 1 1	0	0
56	DZ	1	Total Mg 1 1	0	0

- Molecule 57 is PAROMOMYCIN (CCD ID: PAR) (formula:  $C_{23}H_{45}N_5O_{14}$ ).



Mol	Chain	Residues	Atoms				ZeroOcc	AltConf
57	AA	1	Total	C	N	O	0	0
			42	23	5	14		
57	CA	1	Total	C	N	O	0	0
			42	23	5	14		

- Molecule 58 is ZINC ION (CCD ID: ZN) (formula: Zn).

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
58	AD	1	Total	Zn	0	0
			1	1		
58	AN	1	Total	Zn	0	0
			1	1		
58	CD	1	Total	Zn	0	0
			1	1		
58	CN	1	Total	Zn	0	0
			1	1		

MolProbity failed to run properly - this section is therefore empty.

### 3 Data and refinement statistics

Property	Value	Source
Space group	P 21 21 21	Depositor
Cell constants a, b, c, $\alpha$ , $\beta$ , $\gamma$	213.32Å 452.95Å 631.36Å 90.00° 90.00° 90.00°	Depositor
Resolution (Å)	50.00 – 2.80 50.00 – 2.80	Depositor EDS
% Data completeness (in resolution range)	90.7 (50.00-2.80) 90.7 (50.00-2.80)	Depositor EDS
$R_{merge}$	0.28	Depositor
$R_{sym}$	(Not available)	Depositor
$\langle I/\sigma(I) \rangle$ <sup>1</sup>	1.84 (at 2.81Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, $R_{free}$	0.272 , 0.313 0.266 , 0.306	Depositor DCC
$R_{free}$ test set	64102 reflections (4.77%)	wwPDB-VP
Wilson B-factor (Å <sup>2</sup> )	36.9	Xtrriage
Anisotropy	0.160	Xtrriage
Bulk solvent $k_{sol}$ (e/Å <sup>3</sup> ), $B_{sol}$ (Å <sup>2</sup> )	0.21 , 86.6	EDS
L-test for twinning <sup>2</sup>	$\langle  L  \rangle = 0.35$ , $\langle L^2 \rangle = 0.17$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
$F_o, F_c$ correlation	0.87	EDS
Total number of atoms	291075	wwPDB-VP
Average B, all atoms (Å <sup>2</sup> )	58.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 1.24% 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.

## 4 Model quality [i](#)

### 4.1 Standard geometry [i](#)

MolProbity failed to run properly - this section is therefore empty.

### 4.2 Too-close contacts [i](#)

MolProbity failed to run properly - this section is therefore empty.

### 4.3 Torsion angles [i](#)

#### 4.3.1 Protein backbone [i](#)

MolProbity failed to run properly - this section is therefore empty.

#### 4.3.2 Protein sidechains [i](#)

MolProbity failed to run properly - this section is therefore empty.

#### 4.3.3 RNA [i](#)

MolProbity failed to run properly - this section is therefore empty.

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

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

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	$\# Z  > 2$	Counts	RMSZ	$\# Z  > 2$
22	5MU	CV	54	22	19,22,23	0.25	0	27,32,35	0.37	0
22	5MU	AV	54	22	19,22,23	0.24	0	27,32,35	0.37	0

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
22	5MU	CV	54	22	-	0/7/25/26	0/2/2/2
22	5MU	AV	54	22	-	0/7/25/26	0/2/2/2

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

## 4.5 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 4.6 Ligand geometry [i](#)

Of 1385 ligands modelled in this entry, 1383 are monoatomic - leaving 2 for Mogul analysis.

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

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z  > 2	Counts	RMSZ	# Z  > 2
57	PAR	AA	1816	-	44,45,45	1.41	7 (15%)	63,67,67	1.16	4 (6%)
57	PAR	CA	1790	-	44,45,45	1.44	9 (20%)	63,67,67	1.28	6 (9%)

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
57	PAR	AA	1816	-	-	5/18/94/94	0/4/4/4
57	PAR	CA	1790	-	-	3/18/94/94	0/4/4/4

All (16) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	CA	1790	PAR	C34-C24	4.37	1.59	1.53
57	AA	1816	PAR	C52-C42	3.10	1.58	1.52
57	AA	1816	PAR	O54-C14	2.79	1.49	1.41
57	AA	1816	PAR	C11-C21	2.68	1.57	1.52
57	AA	1816	PAR	C14-C24	2.62	1.57	1.52
57	AA	1816	PAR	O51-C11	2.49	1.48	1.41
57	CA	1790	PAR	C11-C21	2.38	1.57	1.52
57	CA	1790	PAR	O51-C11	2.38	1.48	1.41
57	CA	1790	PAR	O54-C54	2.32	1.50	1.44
57	AA	1816	PAR	C31-C21	2.32	1.56	1.53
57	CA	1790	PAR	C14-C24	2.25	1.56	1.52
57	CA	1790	PAR	C52-C42	2.24	1.56	1.52
57	CA	1790	PAR	C42-C32	2.22	1.57	1.53
57	CA	1790	PAR	O54-C14	2.22	1.47	1.41
57	AA	1816	PAR	C44-C54	2.06	1.57	1.53
57	CA	1790	PAR	C31-C21	2.05	1.56	1.53

All (10) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
57	AA	1816	PAR	O33-C14-C24	5.13	116.47	108.08
57	CA	1790	PAR	O33-C14-C24	4.75	115.86	108.08
57	CA	1790	PAR	O54-C54-C64	3.70	113.18	106.07
57	CA	1790	PAR	C14-O54-C54	3.51	120.57	113.72
57	CA	1790	PAR	O52-C13-O43	-3.08	108.22	111.37
57	AA	1816	PAR	C14-O54-C54	2.96	119.50	113.72
57	AA	1816	PAR	O54-C54-C64	2.77	111.40	106.07
57	CA	1790	PAR	O11-C11-C21	2.76	112.60	108.08
57	CA	1790	PAR	C11-O51-C51	2.39	118.38	113.72
57	AA	1816	PAR	C22-C32-C42	2.05	114.52	109.50

There are no chirality outliers.

All (8) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
57	CA	1790	PAR	O43-C43-C53-O53

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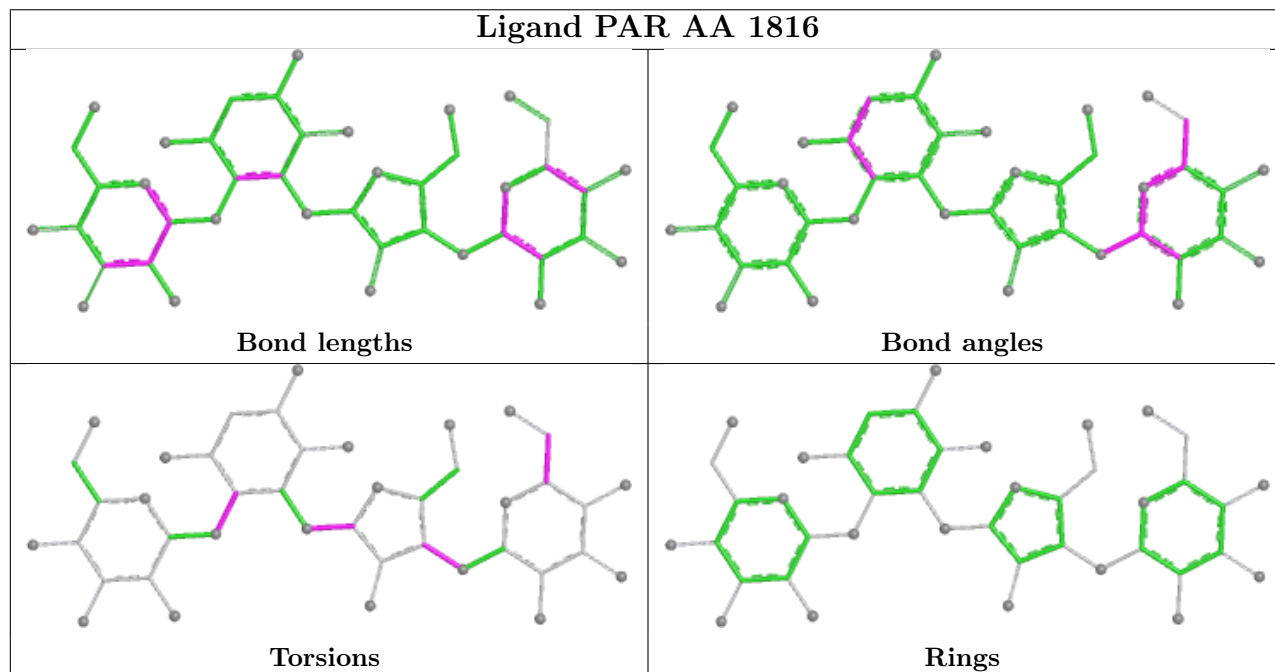
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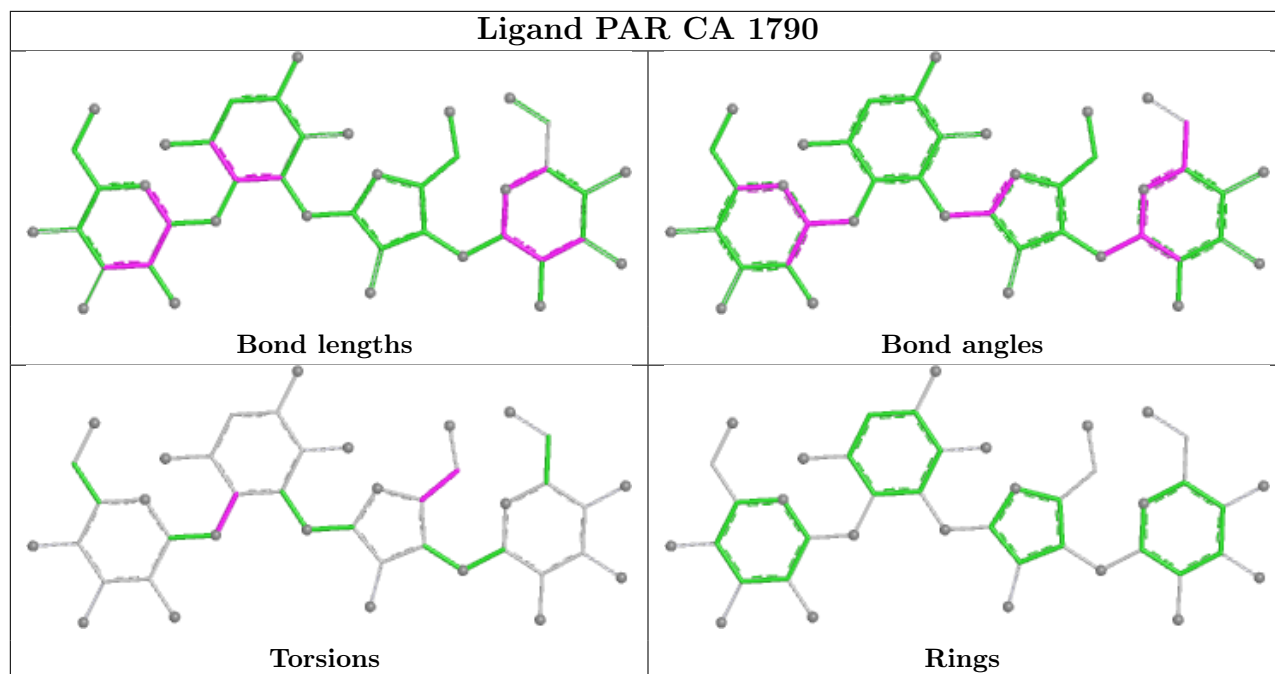
Mol	Chain	Res	Type	Atoms
57	CA	1790	PAR	C33-C43-C53-O53
57	AA	1816	PAR	O43-C13-O52-C52
57	AA	1816	PAR	C23-C13-O52-C52
57	AA	1816	PAR	O54-C54-C64-N64
57	CA	1790	PAR	C52-C42-O11-C11
57	AA	1816	PAR	C52-C42-O11-C11
57	AA	1816	PAR	C43-C33-O33-C14

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.





#### 4.7 Other polymers [i](#)

There are no such residues in this entry.

#### 4.8 Polymer linkage issues [i](#)

The following chains have linkage breaks:

Mol	Chain	Number of breaks
13	AM	5
13	CM	5
9	CI	2
9	AI	2
31	B6	1
31	D6	1
40	BG	1
40	DG	1
51	BV	1
51	DV	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	B6	46:HIS	C	47:THR	N	4.89
1	D6	46:HIS	C	47:THR	N	4.87
1	AM	69:GLU	C	70:LEU	N	4.66

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Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	CM	69:GLU	C	70:LEU	N	4.66
1	CI	53:VAL	C	54:ASP	N	4.02
1	AI	53:VAL	C	54:ASP	N	4.01
1	BG	112:PRO	C	113:ARG	N	4.01
1	CM	97:PRO	C	98:VAL	N	3.75
1	AM	97:PRO	C	98:VAL	N	3.73
1	DG	112:PRO	C	113:ARG	N	3.15
1	AM	112:GLY	C	113:PRO	N	3.07
1	CM	112:GLY	C	113:PRO	N	3.06
1	BV	80:GLN	C	81:TYR	N	3.01
1	DV	80:GLN	C	81:TYR	N	3.00
1	AI	104:ARG	C	105:ASP	N	2.95
1	CM	118:ALA	C	119:GLY	N	2.95
1	AM	118:ALA	C	119:GLY	N	2.93
1	CI	104:ARG	C	105:ASP	N	2.92
1	AM	65:LYS	C	66:LEU	N	2.77
1	CM	65:LYS	C	66:LEU	N	2.76

## 5 Fit of model and data i

### 5.1 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	AA	1504/1522 (98%)	0.17	124 (8%) 17 13	2, 42, 165, 200	0
1	CA	1504/1522 (98%)	0.40	132 (8%) 15 11	3, 50, 172, 200	0
2	AB	235/256 (91%)	1.44	68 (28%) 1 1	17, 94, 183, 200	0
2	CB	235/256 (91%)	1.94	101 (42%) 0 0	17, 104, 187, 200	0
3	AC	207/239 (86%)	1.24	56 (27%) 1 1	17, 70, 156, 200	0
3	CC	207/239 (86%)	1.43	58 (28%) 1 1	19, 84, 149, 190	0
4	AD	208/209 (99%)	0.62	34 (16%) 4 4	1, 43, 127, 198	0
4	CD	208/209 (99%)	0.97	39 (18%) 3 2	4, 51, 133, 182	0
5	AE	151/162 (93%)	0.75	18 (11%) 9 7	4, 51, 128, 177	0
5	CE	151/162 (93%)	0.77	23 (15%) 5 4	3, 56, 140, 185	0
6	AF	101/101 (100%)	0.63	12 (11%) 9 7	5, 48, 131, 156	0
6	CF	101/101 (100%)	0.58	13 (12%) 7 6	2, 54, 130, 151	0
7	AG	155/156 (99%)	1.46	52 (33%) 1 1	8, 68, 151, 184	0
7	CG	155/156 (99%)	1.97	67 (43%) 0 0	15, 87, 155, 190	0
8	AH	138/138 (100%)	0.84	19 (13%) 6 5	3, 52, 120, 173	0
8	CH	138/138 (100%)	0.90	23 (16%) 4 3	16, 58, 138, 152	0
9	AI	127/128 (99%)	1.92	51 (40%) 0 0	26, 97, 171, 200	0
9	CI	127/128 (99%)	2.33	67 (52%) 0 0	28, 111, 175, 200	0
10	AJ	99/105 (94%)	2.15	48 (48%) 0 0	17, 105, 178, 200	0
10	CJ	99/105 (94%)	2.43	52 (52%) 0 0	34, 123, 176, 197	0
11	AK	119/129 (92%)	0.91	17 (14%) 6 5	8, 46, 151, 192	0
11	CK	119/129 (92%)	1.13	24 (20%) 3 2	16, 61, 147, 200	0
12	AL	125/135 (92%)	0.84	23 (18%) 3 2	5, 38, 133, 200	0
12	CL	125/135 (92%)	0.92	28 (22%) 2 1	1, 38, 132, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
13	AM	125/126 (99%)	1.90	40 (32%)	1	1	13, 74, 159, 196	0
13	CM	125/126 (99%)	1.76	45 (36%)	1	0	19, 91, 160, 191	0
14	AN	60/61 (98%)	1.91	20 (33%)	1	1	14, 66, 161, 184	0
14	CN	60/61 (98%)	1.87	18 (30%)	1	1	19, 73, 143, 182	0
15	AO	88/89 (98%)	0.73	16 (18%)	3	2	2, 42, 129, 141	0
15	CO	88/89 (98%)	1.03	19 (21%)	2	2	2, 56, 124, 167	0
16	AP	84/88 (95%)	0.47	8 (9%)	14	10	6, 36, 104, 190	0
16	CP	84/88 (95%)	0.75	11 (13%)	7	6	6, 49, 121, 199	0
17	AQ	100/105 (95%)	0.59	13 (13%)	7	6	1, 45, 110, 193	0
17	CQ	100/105 (95%)	0.99	13 (13%)	7	6	18, 60, 105, 194	0
18	AR	70/88 (79%)	0.77	11 (15%)	5	4	10, 50, 140, 172	0
18	CR	70/88 (79%)	0.93	14 (20%)	3	2	7, 56, 144, 179	0
19	AS	79/93 (84%)	1.63	25 (31%)	1	1	22, 79, 186, 200	0
19	CS	79/93 (84%)	2.25	45 (56%)	0	0	25, 83, 175, 197	0
20	AT	99/106 (93%)	1.32	24 (24%)	2	1	5, 60, 152, 180	0
20	CT	99/106 (93%)	1.54	30 (30%)	1	1	17, 77, 141, 183	0
21	AU	25/27 (92%)	2.08	11 (44%)	0	0	27, 72, 128, 141	0
21	CU	25/27 (92%)	2.77	16 (64%)	0	0	40, 74, 127, 139	0
22	AV	76/77 (98%)	0.09	6 (7%)	18	13	14, 53, 143, 194	0
22	CV	76/77 (98%)	0.31	7 (9%)	14	10	21, 55, 146, 198	0
23	AW	76/76 (100%)	1.07	13 (17%)	4	3	30, 103, 164, 199	0
23	AY	19/76 (25%)	0.85	3 (15%)	5	4	23, 72, 190, 196	0
23	CW	76/76 (100%)	1.27	20 (26%)	1	1	35, 116, 165, 196	0
23	CY	19/76 (25%)	0.95	3 (15%)	5	4	26, 76, 186, 196	0
24	AX	11/24 (45%)	0.43	2 (18%)	3	2	12, 33, 170, 190	0
24	CX	11/24 (45%)	0.99	2 (18%)	3	2	14, 39, 167, 197	0
25	B0	85/85 (100%)	1.02	20 (23%)	2	1	8, 43, 138, 196	0
25	D0	85/85 (100%)	1.61	25 (29%)	1	1	18, 57, 137, 179	0
26	B1	89/98 (90%)	1.41	31 (34%)	1	0	1, 35, 143, 157	0
26	D1	89/98 (90%)	1.27	28 (31%)	1	1	1, 44, 145, 200	0
27	B2	51/72 (70%)	2.35	26 (50%)	0	0	5, 66, 145, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2			OWAB(Å <sup>2</sup> )	Q<0.9
27	D2	51/72 (70%)	2.46	26 (50%)	0	0	13, 79, 154, 200	0
28	B3	60/60 (100%)	0.94	13 (21%)	2	2	5, 57, 140, 190	0
28	D3	60/60 (100%)	1.61	22 (36%)	1	0	5, 58, 146, 198	0
29	B4	50/71 (70%)	1.82	18 (36%)	1	0	38, 90, 158, 173	0
29	D4	50/71 (70%)	2.53	26 (52%)	0	0	54, 117, 160, 198	0
30	B5	59/60 (98%)	1.55	23 (38%)	1	0	5, 51, 192, 200	0
30	D5	59/60 (98%)	1.11	11 (18%)	3	2	1, 65, 179, 200	0
31	B6	45/54 (83%)	2.62	26 (57%)	0	0	54, 103, 171, 180	0
31	D6	45/54 (83%)	3.24	31 (68%)	0	0	64, 139, 171, 189	0
32	B7	49/49 (100%)	0.24	7 (14%)	6	5	1, 19, 115, 165	0
32	D7	49/49 (100%)	0.32	6 (12%)	8	6	1, 19, 88, 174	0
33	B8	64/65 (98%)	1.51	18 (28%)	1	1	4, 44, 140, 195	0
33	D8	64/65 (98%)	1.73	22 (34%)	1	1	5, 52, 155, 192	0
34	BA	2772/2787 (99%)	-0.11	167 (6%)	27	21	1, 29, 145, 200	0
34	DA	2772/2787 (99%)	-0.03	189 (6%)	23	17	1, 30, 152, 200	0
35	BB	119/122 (97%)	0.34	5 (4%)	40	32	22, 64, 108, 197	0
35	DB	119/122 (97%)	0.86	11 (9%)	14	10	34, 76, 127, 188	0
36	BC	191/229 (83%)	2.38	108 (56%)	0	0	51, 144, 186, 200	0
36	DC	191/229 (83%)	2.49	108 (56%)	0	0	61, 146, 186, 200	0
37	BD	272/276 (98%)	0.10	21 (7%)	19	14	1, 19, 89, 196	0
37	DD	272/276 (98%)	0.12	17 (6%)	26	19	1, 21, 89, 200	0
38	BE	205/206 (99%)	1.04	51 (24%)	2	1	1, 46, 141, 193	0
38	DE	205/206 (99%)	1.03	45 (21%)	2	2	1, 43, 144, 199	0
39	BF	208/210 (99%)	0.74	38 (18%)	3	2	1, 44, 155, 200	0
39	DF	208/210 (99%)	0.92	45 (21%)	2	2	1, 44, 160, 200	0
40	BG	181/182 (99%)	1.11	45 (24%)	2	1	8, 65, 142, 188	0
40	DG	181/182 (99%)	1.63	62 (34%)	1	1	10, 82, 149, 195	0
41	BH	160/180 (88%)	2.38	86 (53%)	0	0	51, 124, 174, 200	0
41	DH	160/180 (88%)	1.98	63 (39%)	1	0	10, 102, 174, 194	0
42	BI	146/148 (98%)	1.48	43 (29%)	1	1	5, 78, 148, 187	0
42	DI	146/148 (98%)	3.08	91 (62%)	0	0	9, 124, 184, 200	0

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Mol	Chain	Analysed	<RSRZ>	#RSRZ>2		OWAB(Å <sup>2</sup> )	Q<0.9	
43	BN	139/140 (99%)	1.32	35 (25%)	1	1	10, 68, 144, 163	0
43	DN	139/140 (99%)	1.50	44 (31%)	1	1	15, 63, 141, 165	0
44	BO	122/122 (100%)	0.62	15 (12%)	8	6	3, 32, 103, 177	0
44	DO	122/122 (100%)	0.35	10 (8%)	17	13	1, 33, 102, 126	0
45	BP	146/150 (97%)	1.63	47 (32%)	1	1	1, 61, 159, 193	0
45	DP	146/150 (97%)	1.93	58 (39%)	1	0	2, 71, 165, 198	0
46	BQ	136/141 (96%)	1.47	40 (29%)	1	1	7, 58, 171, 200	0
46	DQ	136/141 (96%)	1.31	34 (25%)	2	1	7, 54, 164, 200	0
47	BR	117/118 (99%)	0.60	16 (13%)	6	5	3, 32, 132, 146	0
47	DR	117/118 (99%)	0.97	18 (15%)	5	4	3, 42, 126, 166	0
48	BS	99/112 (88%)	1.65	28 (28%)	1	1	21, 76, 134, 173	0
48	DS	99/112 (88%)	1.88	37 (37%)	1	0	24, 89, 143, 170	0
49	BT	138/146 (94%)	1.51	40 (28%)	1	1	3, 67, 169, 190	0
49	DT	138/146 (94%)	1.59	48 (34%)	1	0	7, 65, 171, 200	0
50	BU	117/118 (99%)	1.27	26 (22%)	2	1	5, 50, 142, 200	0
50	DU	117/118 (99%)	1.07	28 (23%)	2	1	1, 46, 145, 190	0
51	BV	101/101 (100%)	2.16	55 (54%)	0	0	14, 96, 174, 192	0
51	DV	101/101 (100%)	2.09	52 (51%)	0	0	11, 93, 172, 193	0
52	BW	113/113 (100%)	0.13	8 (7%)	22	16	1, 26, 121, 161	0
52	DW	113/113 (100%)	0.47	15 (13%)	7	5	3, 28, 126, 200	0
53	BX	93/96 (96%)	1.06	20 (21%)	2	2	1, 46, 137, 168	0
53	DX	93/96 (96%)	1.32	25 (26%)	1	1	8, 54, 138, 157	0
54	BY	101/110 (91%)	2.10	44 (43%)	0	0	1, 79, 170, 195	0
54	DY	101/110 (91%)	2.03	47 (46%)	0	0	1, 79, 177, 196	0
55	BZ	177/206 (85%)	1.74	67 (37%)	1	0	19, 96, 177, 200	0
55	DZ	177/206 (85%)	1.99	79 (44%)	0	0	18, 98, 178, 198	0
All	All	20972/21886 (95%)	0.80	4094 (19%)	3	2	1, 51, 163, 200	0

All (4094) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
42	DI	120	ILE	16.2
33	D8	65	GLU	15.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	DI	125	GLU	14.8
46	BQ	24	GLY	14.3
42	DI	88	ILE	13.9
13	AM	84	ILE	13.8
33	B8	65	GLU	13.4
42	DI	130	TYR	13.1
46	BQ	139	GLU	12.5
41	BH	171	LEU	12.4
13	AM	126	LYS	12.3
17	CQ	101	ARG	11.7
46	BQ	140	ALA	11.4
10	AJ	83	GLU	11.1
11	AK	129	SER	10.7
42	DI	92	VAL	10.6
34	DA	652	C	10.3
42	DI	143	SER	10.2
13	AM	7	VAL	10.2
43	DN	1	MET	10.1
7	CG	5	ARG	9.9
13	AM	69	GLU	9.9
39	DF	133	ASN	9.8
46	BQ	141	GLN	9.8
36	BC	110	PHE	9.7
48	DS	97	ARG	9.7
19	AS	81	ARG	9.6
45	DP	107	LYS	9.2
1	AA	89	C	9.2
41	BH	149	ARG	9.2
14	CN	60	SER	9.2
45	BP	110	TYR	9.1
29	D4	16	CYS	9.1
36	DC	179	SER	9.0
31	D6	42	TRP	8.9
1	CA	88	A	8.9
30	D5	53	ALA	8.9
38	DE	76	ARG	8.9
42	DI	84	GLY	8.8
7	CG	83	ALA	8.8
13	CM	84	ILE	8.7
12	AL	28	LYS	8.7
27	D2	61	LEU	8.7
11	AK	49	GLY	8.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	DA	2476	A	8.7
33	D8	64	TYR	8.6
47	DR	8	ARG	8.5
12	CL	28	LYS	8.4
41	DH	171	LEU	8.4
27	D2	43	GLN	8.4
45	DP	108	LYS	8.3
34	DA	1533	G	8.3
49	DT	92	GLY	8.3
46	DQ	24	GLY	8.2
27	B2	43	GLN	8.2
41	BH	124	GLU	8.1
42	DI	144	VAL	8.1
20	AT	86	ARG	8.1
55	BZ	104	PHE	8.1
10	CJ	39	PRO	8.0
25	D0	3	HIS	8.0
21	CU	24	ARG	8.0
1	CA	1032	G	7.9
54	BY	60	PHE	7.9
54	DY	49	VAL	7.9
19	AS	4	SER	7.9
20	AT	12	ALA	7.9
34	BA	652	C	7.9
14	AN	2	ALA	7.8
55	BZ	175	VAL	7.8
9	CI	128	ARG	7.8
34	DA	897	C	7.8
34	BA	656	G	7.8
41	DH	147	ASN	7.8
37	DD	273	ARG	7.8
55	BZ	113	ALA	7.8
36	BC	166	ASP	7.7
25	B0	6	GLY	7.7
3	CC	2	GLY	7.7
7	AG	37	ASN	7.7
10	AJ	66	ARG	7.6
54	DY	3	VAL	7.6
25	D0	6	GLY	7.5
25	D0	2	ALA	7.5
13	AM	125	ARG	7.5
14	AN	60	SER	7.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	DC	37	PHE	7.5
55	DZ	97	GLU	7.5
2	CB	96	ARG	7.4
41	BH	60	ARG	7.4
53	BX	69	TYR	7.4
1	CA	1129	C	7.4
53	DX	69	TYR	7.4
51	DV	46	VAL	7.4
34	DA	2802	G	7.4
19	AS	80	TYR	7.4
36	BC	56	GLN	7.4
48	DS	33	LYS	7.4
53	DX	73	ARG	7.4
49	BT	25	GLY	7.4
42	DI	87	LYS	7.4
48	BS	97	ARG	7.3
36	DC	43	VAL	7.3
53	BX	26	TYR	7.3
38	DE	53	PRO	7.3
43	BN	74	ARG	7.2
23	AW	17	C	7.2
46	DQ	21	THR	7.2
54	DY	102	CYS	7.2
14	AN	28	GLY	7.2
54	BY	50	ARG	7.2
45	DP	147	LEU	7.1
1	CA	1033	G	7.1
32	B7	47	ARG	7.1
34	DA	2803	C	7.1
9	CI	12	GLU	7.1
19	CS	12	ASP	7.1
42	DI	65	ALA	7.1
31	B6	42	TRP	7.0
31	D6	25	LYS	7.0
48	DS	30	ARG	7.0
49	BT	115	ARG	7.0
13	CM	126	LYS	7.0
8	AH	1	MET	7.0
9	CI	66	ARG	7.0
34	DA	1543	C	7.0
10	CJ	43	ARG	7.0
45	DP	87	ASP	6.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	BY	45	VAL	6.9
31	D6	10	LEU	6.9
41	DH	48	GLY	6.9
2	CB	133	LYS	6.9
34	BA	2802	G	6.9
1	AA	82	U	6.9
36	DC	170	ALA	6.9
46	DQ	141	GLN	6.9
10	CJ	66	ARG	6.8
54	BY	3	VAL	6.8
46	DQ	139	GLU	6.8
36	DC	178	ALA	6.8
51	BV	60	GLU	6.8
47	DR	9	LYS	6.8
34	DA	656	G	6.8
42	DI	127	VAL	6.8
34	BA	1543	C	6.8
34	DA	2477	C	6.8
4	CD	209	ARG	6.8
29	D4	48	ARG	6.8
43	DN	74	ARG	6.8
50	BU	58	ARG	6.8
53	BX	68	ARG	6.8
51	BV	95	LEU	6.8
44	BO	27	GLY	6.8
2	AB	21	ARG	6.7
44	BO	90	GLN	6.7
10	CJ	64	GLU	6.7
27	B2	54	LYS	6.7
9	CI	104	ARG	6.7
10	CJ	71	LEU	6.7
19	AS	5	LEU	6.7
38	DE	52	LEU	6.7
9	AI	87	GLN	6.7
54	DY	83	THR	6.7
36	DC	145	VAL	6.7
34	DA	2172	U	6.7
21	AU	6	ARG	6.6
54	BY	102	CYS	6.6
48	BS	98	VAL	6.6
49	BT	112	ARG	6.6
34	DA	2790	A	6.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	DI	119	PRO	6.6
45	DP	121	LYS	6.6
9	CI	21	PRO	6.6
49	BT	92	GLY	6.6
7	CG	37	ASN	6.6
34	BA	897	C	6.6
28	D3	60	GLU	6.5
9	AI	128	ARG	6.5
46	DQ	6	ARG	6.5
17	AQ	101	ARG	6.5
31	D6	39	TYR	6.4
33	D8	34	TRP	6.4
1	AA	1129	C	6.4
54	DY	60	PHE	6.4
1	CA	5	U	6.4
54	BY	2	ARG	6.4
2	AB	195	ASP	6.4
12	AL	16	GLU	6.4
26	B1	95	LEU	6.4
27	B2	58	ALA	6.4
51	DV	75	PHE	6.4
19	CS	80	TYR	6.4
34	BA	1114	G	6.4
45	BP	18	ARG	6.3
11	CK	129	SER	6.3
36	DC	63	SER	6.3
42	DI	118	LYS	6.3
27	B2	12	GLU	6.3
40	BG	116	ASP	6.3
34	DA	2174	C	6.3
13	AM	120	LYS	6.3
54	DY	52	SER	6.3
37	DD	26	LYS	6.3
1	CA	80	G	6.3
34	BA	1533	G	6.3
3	AC	44	GLU	6.3
47	DR	118	GLU	6.3
5	AE	113	ALA	6.3
45	DP	27	HIS	6.3
13	CM	58	GLU	6.3
30	D5	60	VAL	6.3
30	B5	2	ALA	6.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
25	B0	1	MET	6.2
4	CD	3	ARG	6.2
36	DC	169	GLY	6.2
1	CA	83	U	6.2
12	AL	29	GLY	6.2
50	BU	91	ASP	6.2
38	BE	76	ARG	6.2
9	CI	106	ALA	6.2
36	BC	43	VAL	6.2
1	CA	1034	G	6.2
13	AM	121	LYS	6.2
49	DT	25	GLY	6.2
29	D4	42	PHE	6.1
19	CS	81	ARG	6.1
34	BA	275	G	6.1
27	B2	48	HIS	6.1
13	CM	102	ARG	6.1
24	CX	13	A	6.1
42	DI	121	LYS	6.1
10	AJ	39	PRO	6.1
42	DI	83	ALA	6.1
28	B3	30	ARG	6.1
49	BT	91	ARG	6.1
29	B4	39	CYS	6.1
49	BT	104	ASN	6.1
29	B4	17	GLY	6.1
36	DC	172	HIS	6.0
42	BI	109	ILE	6.0
42	DI	41	GLU	6.0
13	AM	3	ARG	6.0
18	AR	54	ARG	6.0
41	BH	154	PRO	6.0
2	AB	138	LEU	6.0
42	BI	58	LEU	6.0
34	BA	508	G	6.0
33	B8	63	PRO	6.0
51	BV	81	TYR	6.0
54	BY	61	ILE	6.0
29	D4	17	GLY	6.0
45	DP	17	LYS	6.0
7	CG	80	VAL	6.0
29	D4	15	ILE	6.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	DA	2473	U	6.0
34	DA	2655	G	6.0
38	DE	121	ASN	6.0
44	BO	68	GLU	5.9
53	DX	34	ALA	5.9
34	DA	2126	A	5.9
40	DG	88	ILE	5.9
11	AK	25	TYR	5.9
45	DP	65	ARG	5.9
41	DH	12	PRO	5.9
11	CK	89	ALA	5.9
9	CI	42	ARG	5.9
34	BA	2111	C	5.9
53	DX	3	THR	5.9
49	BT	11	GLU	5.8
45	BP	104	GLY	5.8
34	DA	2791	C	5.8
42	DI	53	ALA	5.8
27	B2	60	LEU	5.8
53	DX	26	TYR	5.8
46	DQ	140	ALA	5.8
27	B2	61	LEU	5.8
9	AI	12	GLU	5.8
33	B8	34	TRP	5.8
49	BT	113	LYS	5.8
49	DT	113	LYS	5.8
29	D4	47	GLN	5.8
36	DC	162	GLU	5.8
49	DT	21	GLU	5.8
1	AA	1124	G	5.8
13	AM	6	GLY	5.8
36	BC	145	VAL	5.8
46	BQ	21	THR	5.8
1	CA	1286	A	5.8
48	DS	45	GLY	5.8
47	DR	91	GLN	5.7
10	CJ	5	ARG	5.7
25	D0	41	ARG	5.7
2	CB	222	ILE	5.7
14	AN	35	ARG	5.7
7	AG	85	TYR	5.7
33	D8	63	PRO	5.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	DI	89	TYR	5.7
7	CG	82	GLY	5.7
55	DZ	104	PHE	5.7
3	AC	30	ARG	5.7
41	DH	149	ARG	5.7
31	D6	53	LYS	5.7
55	BZ	135	GLU	5.7
54	DY	4	LYS	5.6
34	BA	2790	A	5.6
41	BH	157	TYR	5.6
2	CB	126	GLU	5.6
43	DN	68	GLU	5.6
46	DQ	80	GLU	5.6
48	BS	54	LEU	5.6
55	BZ	117	LEU	5.6
42	DI	139	GLN	5.6
15	CO	22	THR	5.6
54	BY	79	CYS	5.6
7	AG	8	GLU	5.6
47	BR	8	ARG	5.6
9	AI	106	ALA	5.6
45	DP	5	ASP	5.6
15	CO	2	PRO	5.6
14	CN	61	TRP	5.6
13	AM	112	GLY	5.6
13	CM	125	ARG	5.6
42	DI	128	LEU	5.6
1	CA	1030	C	5.6
20	AT	73	HIS	5.6
10	CJ	42	THR	5.6
1	AA	5	U	5.6
33	B8	64	TYR	5.6
41	DH	60	ARG	5.6
41	BH	153	LYS	5.6
41	DH	143	GLN	5.6
51	DV	87	HIS	5.5
26	B1	10	LYS	5.5
29	D4	18	CYS	5.5
27	B2	51	ARG	5.5
50	DU	117	GLN	5.5
3	CC	26	LYS	5.5
46	BQ	16	ARG	5.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	DT	93	ARG	5.5
26	D1	95	LEU	5.5
11	CK	49	GLY	5.5
15	AO	89	GLY	5.5
40	DG	141	PHE	5.5
36	BC	165	ASN	5.5
13	CM	4	ILE	5.5
32	D7	47	ARG	5.5
19	CS	4	SER	5.5
33	B8	37	SER	5.5
2	CB	125	PRO	5.5
34	DA	1532	C	5.5
20	AT	75	ASN	5.5
51	BV	26	ASP	5.4
3	AC	76	VAL	5.4
41	BH	85	LYS	5.4
4	AD	209	ARG	5.4
55	BZ	136	PHE	5.4
6	AF	39	LYS	5.4
13	AM	122	LYS	5.4
25	D0	4	LYS	5.4
30	B5	54	GLY	5.4
34	BA	352	G	5.4
46	BQ	138	ASP	5.4
10	AJ	35	SER	5.4
41	DH	13	LYS	5.4
7	CG	32	ARG	5.4
20	CT	100	ILE	5.4
1	AA	90	U	5.4
3	CC	167	TRP	5.4
9	AI	104	ARG	5.4
27	D2	14	ARG	5.4
50	BU	59	ARG	5.4
1	AA	79	G	5.4
54	BY	44	ILE	5.4
54	DY	51	VAL	5.3
55	DZ	141	VAL	5.3
30	B5	53	ALA	5.3
2	CB	193	ASP	5.3
14	AN	12	ARG	5.3
39	DF	168	ARG	5.3
26	B1	83	GLU	5.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	BY	28	LYS	5.3
54	DY	46	LYS	5.3
36	BC	108	MET	5.3
7	AG	115	ARG	5.3
20	CT	99	LEU	5.3
38	BE	69	LYS	5.3
50	BU	84	LYS	5.3
36	DC	146	GLY	5.3
4	CD	12	CYS	5.3
31	D6	38	LYS	5.3
54	BY	4	LYS	5.3
19	AS	10	PHE	5.3
34	BA	2402	C	5.3
36	BC	169	GLY	5.3
36	DC	39	GLU	5.3
41	BH	123	PHE	5.3
48	DS	12	PHE	5.3
34	DA	358	U	5.3
40	DG	82	LEU	5.3
34	BA	2655	G	5.3
54	BY	24	VAL	5.3
33	D8	40	GLU	5.3
2	CB	155	LEU	5.2
7	CG	12	LEU	5.2
29	D4	20	ASN	5.2
48	BS	101	LEU	5.2
42	BI	111	PRO	5.2
4	CD	2	GLY	5.2
40	BG	82	LEU	5.2
40	DG	43	LEU	5.2
1	CA	89	C	5.2
31	B6	13	CYS	5.2
39	DF	131	GLY	5.2
40	BG	129	GLY	5.2
51	DV	86	GLY	5.2
40	BG	88	ILE	5.2
12	CL	20	LYS	5.2
39	DF	108	LYS	5.2
42	DI	134	PRO	5.2
27	B2	62	THR	5.2
39	BF	1	MET	5.2
38	DE	54	GLN	5.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	BT	124	ASP	5.2
53	BX	73	ARG	5.2
54	DY	89	PHE	5.2
26	D1	27	GLU	5.2
41	BH	136	ILE	5.2
48	DS	54	LEU	5.2
48	BS	100	ALA	5.2
2	CB	106	LYS	5.2
36	DC	84	LYS	5.2
34	DA	2112	G	5.2
31	B6	19	ARG	5.2
55	DZ	140	ASP	5.2
2	CB	33	TYR	5.2
7	CG	77	SER	5.2
49	DT	36	GLU	5.2
35	DB	26	A	5.1
45	DP	18	ARG	5.1
3	CC	44	GLU	5.1
4	AD	23	GLY	5.1
13	CM	61	GLU	5.1
31	D6	12	GLU	5.1
7	AG	151	TYR	5.1
31	B6	21	TYR	5.1
40	DG	12	TYR	5.1
46	DQ	87	LYS	5.1
36	DC	51	PRO	5.1
15	CO	17	ARG	5.1
27	D2	48	HIS	5.1
41	DH	139	GLN	5.1
26	B1	91	LYS	5.1
8	AH	99	GLU	5.1
33	D8	37	SER	5.1
5	CE	15	ARG	5.1
7	CG	4	ARG	5.1
25	D0	55	ARG	5.1
34	DA	34	C	5.1
1	AA	1183	A	5.1
1	CA	1183	A	5.1
18	AR	68	LYS	5.1
40	DG	75	LYS	5.1
36	BC	178	ALA	5.1
7	CG	155	ARG	5.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
41	BH	132	ARG	5.1
49	BT	8	LYS	5.1
26	B1	85	LEU	5.1
14	CN	28	GLY	5.1
42	DI	122	GLU	5.1
50	BU	89	GLU	5.1
45	BP	27	HIS	5.0
40	DG	176	LEU	5.0
34	BA	884	C	5.0
51	BV	3	ALA	5.0
45	BP	15	ARG	5.0
33	D8	39	LYS	5.0
29	B4	36	CYS	5.0
42	DI	109	ILE	5.0
7	CG	84	ASN	5.0
2	CB	128	GLU	5.0
34	DA	1051	G	5.0
14	CN	15	LYS	5.0
45	DP	64	LYS	5.0
2	AB	150	SER	5.0
48	DS	98	VAL	5.0
20	CT	10	LEU	5.0
36	BC	206	GLY	5.0
27	B2	13	ALA	5.0
36	DC	45	ALA	5.0
21	CU	26	LYS	5.0
31	B6	53	LYS	5.0
48	BS	99	LYS	5.0
51	DV	97	LYS	5.0
36	BC	109	ASP	5.0
43	DN	75	TYR	5.0
27	D2	35	LEU	5.0
34	BA	2892	A	5.0
25	D0	17	GLN	5.0
10	AJ	29	ARG	5.0
40	BG	33	ARG	5.0
36	BC	177	LYS	5.0
19	CS	13	ASP	5.0
34	BA	2474	C	4.9
55	BZ	146	ILE	4.9
41	DH	123	PHE	4.9
23	CW	16	U	4.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	D2	51	ARG	4.9
41	BH	156	ALA	4.9
20	AT	9	ASN	4.9
9	CI	44	VAL	4.9
12	AL	18	VAL	4.9
37	BD	34	VAL	4.9
48	BS	14	VAL	4.9
15	CO	62	GLN	4.9
45	DP	7	ARG	4.9
52	DW	92	ARG	4.9
4	AD	180	GLY	4.9
13	AM	8	GLU	4.9
41	BH	96	ALA	4.9
1	AA	88	A	4.9
26	D1	85	LEU	4.9
41	DH	114	VAL	4.9
43	DN	5	VAL	4.9
20	CT	73	HIS	4.9
30	D5	51	TYR	4.9
33	B8	48	PHE	4.9
43	DN	131	GLN	4.9
54	DY	2	ARG	4.9
39	BF	131	GLY	4.9
43	DN	73	THR	4.9
53	BX	34	ALA	4.9
33	B8	50	LEU	4.9
40	BG	43	LEU	4.9
42	DI	114	LEU	4.9
2	CB	7	VAL	4.9
41	DH	44	VAL	4.9
19	CS	40	ILE	4.9
20	AT	100	ILE	4.9
25	D0	71	ASP	4.9
33	B8	40	GLU	4.9
36	BC	68	LEU	4.9
42	DI	68	LEU	4.9
46	BQ	7	MET	4.9
2	AB	153	ARG	4.9
7	AG	5	ARG	4.9
38	BE	171	GLU	4.8
15	AO	22	THR	4.8
40	DG	46	ALA	4.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	DT	131	ALA	4.8
20	AT	99	LEU	4.8
4	CD	31	CYS	4.8
1	AA	1163	C	4.8
16	AP	81	ARG	4.8
45	BP	79	ARG	4.8
1	AA	1176	A	4.8
16	CP	68	ASP	4.8
1	CA	1031	G	4.8
9	CI	126	SER	4.8
3	CC	190	ARG	4.8
7	CG	115	ARG	4.8
13	AM	93	ARG	4.8
51	BV	53	GLU	4.8
7	AG	48	LYS	4.8
51	DV	70	ILE	4.8
28	D3	44	ARG	4.8
51	BV	75	PHE	4.8
39	BF	7	TYR	4.8
45	BP	150	ALA	4.8
46	BQ	23	GLY	4.8
2	CB	191	ASP	4.8
50	DU	97	ASP	4.8
23	AY	26	A	4.8
34	DA	1531	C	4.8
34	DA	1544	A	4.8
17	CQ	100	LYS	4.8
50	DU	54	LYS	4.8
2	CB	41	ILE	4.8
27	B2	55	ARG	4.8
41	BH	101	ARG	4.8
33	B8	31	HIS	4.8
41	DH	158	HIS	4.8
46	DQ	23	GLY	4.8
7	CG	85	TYR	4.8
28	B3	1	MET	4.7
51	DV	68	LYS	4.7
41	BH	70	THR	4.7
4	CD	5	ILE	4.7
54	DY	61	ILE	4.7
21	AU	24	ARG	4.7
26	B1	77	ALA	4.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	DI	94	ALA	4.7
45	DP	74	GLU	4.7
9	AI	78	LYS	4.7
12	CL	111	LYS	4.7
38	BE	63	LEU	4.7
41	BH	164	TYR	4.7
43	BN	75	TYR	4.7
44	BO	112	MET	4.7
46	DQ	7	MET	4.7
53	DX	5	TYR	4.7
34	DA	2115	G	4.7
9	CI	41	VAL	4.7
37	BD	273	ARG	4.7
55	DZ	80	ARG	4.7
1	CA	1035	A	4.7
34	DA	2163	C	4.7
2	AB	155	LEU	4.7
5	CE	81	GLU	4.7
36	DC	176	GLY	4.7
42	DI	90	GLY	4.7
41	DH	154	PRO	4.7
48	BS	33	LYS	4.7
46	BQ	137	TYR	4.7
51	DV	81	TYR	4.7
27	B2	59	ARG	4.7
27	D2	55	ARG	4.7
36	BC	19	VAL	4.7
34	BA	2659	G	4.7
4	AD	2	GLY	4.7
7	AG	83	ALA	4.7
7	CG	81	GLY	4.7
39	DF	24	LEU	4.7
40	BG	152	LEU	4.7
4	AD	31	CYS	4.7
13	AM	94	ARG	4.7
25	D0	74	ARG	4.7
34	BA	12	U	4.7
41	DH	59	ARG	4.7
31	B6	39	TYR	4.7
36	DC	144	THR	4.7
8	CH	25	ASP	4.7
34	BA	1173	G	4.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
15	AO	7	GLU	4.7
19	CS	43	GLU	4.7
38	DE	40	GLU	4.7
43	DN	132	ALA	4.7
45	DP	79	ARG	4.7
34	BA	2491	U	4.6
38	DE	44	TYR	4.6
12	AL	91	LYS	4.6
14	AN	15	LYS	4.6
8	CH	1	MET	4.6
11	AK	128	ALA	4.6
25	B0	9	SER	4.6
13	AM	124	PRO	4.6
28	B3	44	ARG	4.6
31	B6	37	ARG	4.6
55	BZ	141	VAL	4.6
34	BA	11	G	4.6
34	BA	274	G	4.6
34	BA	1033	U	4.6
38	BE	44	TYR	4.6
2	AB	152	PHE	4.6
19	AS	12	ASP	4.6
9	AI	66	ARG	4.6
7	AG	13	GLN	4.6
10	AJ	33	GLN	4.6
13	AM	119	GLY	4.6
41	BH	12	PRO	4.6
50	DU	58	ARG	4.6
41	DH	136	ILE	4.6
42	BI	4	ILE	4.6
45	DP	119	GLU	4.6
48	BS	43	GLU	4.6
3	CC	193	TYR	4.6
27	D2	54	LYS	4.6
34	BA	1544	A	4.6
36	DC	38	ASP	4.6
48	DS	32	LEU	4.6
47	BR	2	ARG	4.6
49	BT	13	ARG	4.6
10	CJ	84	GLN	4.6
10	AJ	34	VAL	4.6
41	BH	84	SER	4.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
55	DZ	136	PHE	4.6
23	AW	34	G	4.6
42	BI	132	PRO	4.6
28	B3	17	LYS	4.6
31	D6	20	ASN	4.6
42	BI	114	LEU	4.5
2	AB	144	ARG	4.5
32	B7	49	ARG	4.5
55	BZ	79	ARG	4.5
1	CA	1196	U	4.5
1	CA	1447	A	4.5
12	CL	129	ALA	4.5
29	D4	41	PRO	4.5
34	DA	92	A	4.5
38	DE	205	ALA	4.5
34	BA	2477	C	4.5
40	BG	75	LYS	4.5
34	BA	272(B)	G	4.5
34	BA	883	G	4.5
34	BA	2894	G	4.5
45	BP	51	PHE	4.5
45	BP	148	LEU	4.5
53	DX	92	LEU	4.5
9	AI	64	THR	4.5
51	DV	45	THR	4.5
7	AG	32	ARG	4.5
10	CJ	46	ARG	4.5
14	CN	12	ARG	4.5
38	BE	174	ASP	4.5
42	DI	110	ASP	4.5
37	BD	28	GLU	4.5
36	BC	82	LYS	4.5
40	BG	84	LYS	4.5
42	BI	112	LYS	4.5
49	BT	85	LYS	4.5
34	DA	547	A	4.5
55	DZ	88	PHE	4.5
3	AC	119	ARG	4.5
42	BI	134	PRO	4.5
50	DU	71	GLN	4.5
20	CT	75	ASN	4.5
46	DQ	16	ARG	4.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	DA	898	C	4.5
41	DH	157	TYR	4.5
1	CA	93	G	4.5
43	DN	46	VAL	4.5
7	CG	33	ASP	4.5
27	B2	37	PHE	4.5
42	DI	72	LEU	4.5
54	DY	50	ARG	4.5
7	CG	151	TYR	4.4
10	AJ	41	PRO	4.4
10	AJ	44	VAL	4.4
10	CJ	101	VAL	4.4
36	BC	176	GLY	4.4
50	DU	89	GLU	4.4
51	BV	46	VAL	4.4
51	DV	60	GLU	4.4
43	BN	1	MET	4.4
4	AD	53	ASP	4.4
40	BG	139	LEU	4.4
55	BZ	20	ARG	4.4
31	D6	46	HIS	4.4
10	CJ	59	SER	4.4
2	CB	229	VAL	4.4
3	AC	143	GLU	4.4
9	CI	14	VAL	4.4
19	CS	17	GLU	4.4
51	DV	51	VAL	4.4
1	AA	470	C	4.4
46	BQ	83	MET	4.4
54	BY	5	MET	4.4
21	AU	9	ARG	4.4
34	BA	1026	U	4.4
12	AL	17	LYS	4.4
49	DT	85	LYS	4.4
54	BY	92	ASN	4.4
30	B5	34	PRO	4.4
48	BS	108	GLY	4.4
30	B5	59	GLU	4.4
35	DB	52	A	4.4
51	DV	43	GLU	4.4
41	BH	139	GLN	4.4
43	DN	133	GLN	4.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
7	CG	16	LEU	4.4
9	AI	42	ARG	4.4
42	DI	112	LYS	4.4
1	AA	83	U	4.4
14	AN	14	PRO	4.4
42	BI	65	ALA	4.4
28	D3	1	MET	4.4
41	BH	169	VAL	4.4
14	AN	8	GLU	4.4
34	DA	1740	G	4.4
49	DT	32	TYR	4.4
50	DU	111	GLU	4.4
25	B0	17	GLN	4.4
1	CA	1030(D)	A	4.4
31	D6	37	ARG	4.4
33	B8	46	ARG	4.4
38	DE	58	ARG	4.4
10	AJ	47	PHE	4.4
41	DH	153	LYS	4.4
36	DC	173	ALA	4.3
10	CJ	24	VAL	4.3
55	DZ	132	ASN	4.3
20	CT	82	SER	4.3
9	CI	110	GLU	4.3
33	D8	54	GLU	4.3
51	BV	34	GLU	4.3
20	AT	10	LEU	4.3
41	BH	83	TYR	4.3
20	CT	87	LYS	4.3
51	BV	97	LYS	4.3
1	CA	1026	G	4.3
34	BA	2893	G	4.3
25	B0	85	ALA	4.3
26	D1	77	ALA	4.3
19	AS	82	GLY	4.3
20	CT	9	ASN	4.3
36	BC	148	ASN	4.3
38	BE	90	THR	4.3
42	DI	86	THR	4.3
45	BP	109	GLY	4.3
49	DT	112	ARG	4.3
26	D1	19	GLN	4.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	B6	38	LYS	4.3
43	BN	131	GLN	4.3
54	DY	33	LYS	4.3
47	BR	3	HIS	4.3
54	DY	5	MET	4.3
54	DY	53	PRO	4.3
43	BN	134	ARG	4.3
13	CM	65	LYS	4.3
16	CP	83	GLU	4.3
1	AA	91	C	4.3
19	AS	55	LYS	4.3
19	CS	32	LYS	4.3
25	D0	9	SER	4.3
40	DG	178	PHE	4.3
39	BF	14	PRO	4.3
34	DA	603	A	4.3
34	DA	896	A	4.3
21	CU	9	ARG	4.3
50	DU	19	LYS	4.3
23	AW	33	U	4.3
1	CA	92	C	4.3
1	CA	1027	C	4.3
30	B5	52	TYR	4.3
25	D0	1	MET	4.3
52	DW	111	HIS	4.3
10	CJ	9	ARG	4.3
38	BE	204	ALA	4.3
41	DH	85	LYS	4.3
42	BI	110	ASP	4.3
45	BP	65	ARG	4.3
45	DP	15	ARG	4.3
43	BN	3	THR	4.2
36	DC	148	ASN	4.2
1	CA	1120	G	4.2
10	CJ	23	ILE	4.2
14	AN	37	PHE	4.2
36	BC	179	SER	4.2
42	DI	91	SER	4.2
4	AD	73	ARG	4.2
12	CL	47	LYS	4.2
21	CU	6	ARG	4.2
27	D2	49	LYS	4.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	DI	61	ARG	4.2
28	D3	39	ASP	4.2
38	DE	18	ASP	4.2
51	DV	20	LEU	4.2
9	CI	103	THR	4.2
31	D6	13	CYS	4.2
34	DA	1494	A	4.2
34	BA	2473	U	4.2
55	DZ	92	SER	4.2
1	AA	1164	G	4.2
28	D3	30	ARG	4.2
34	DA	352	G	4.2
34	DA	2125	G	4.2
20	AT	106	ALA	4.2
2	CB	227	GLY	4.2
10	CJ	58	ASP	4.2
40	DG	129	GLY	4.2
51	DV	34	GLU	4.2
37	DD	44	ASN	4.2
42	DI	126	TYR	4.2
37	DD	262	ARG	4.2
47	DR	68	ARG	4.2
8	AH	2	LEU	4.2
31	B6	34	LEU	4.2
41	BH	168	PRO	4.2
38	DE	204	ALA	4.2
55	DZ	113	ALA	4.2
1	AA	80	G	4.2
1	AA	1022	G	4.2
3	CC	89	GLU	4.2
34	BA	279	C	4.2
34	DA	2659	G	4.2
35	BB	119	G	4.2
41	BH	53	GLU	4.2
33	D8	35	GLN	4.2
47	BR	91	GLN	4.2
2	AB	53	ARG	4.2
2	CB	144	ARG	4.2
51	DV	21	ARG	4.2
1	AA	1136	U	4.2
25	D0	16	SER	4.2
23	CY	26	A	4.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	BA	2476	A	4.2
37	DD	34	VAL	4.2
25	D0	76	GLY	4.2
1	CA	1172	C	4.1
9	CI	64	THR	4.1
33	D8	48	PHE	4.2
34	DA	1053	C	4.1
1	AA	1117	G	4.1
1	CA	1002	G	4.1
43	DN	137	LYS	4.1
21	CU	10	ARG	4.1
32	B7	41	ARG	4.1
41	DH	51	ARG	4.1
11	CK	75	TYR	4.1
19	CS	38	SER	4.1
21	CU	23	PRO	4.1
19	CS	82	GLY	4.1
25	B0	13	GLY	4.1
13	AM	61	GLU	4.1
36	BC	55	ASP	4.1
9	AI	103	THR	4.1
55	BZ	112	ARG	4.1
42	BI	133	HIS	4.1
10	AJ	90	LEU	4.1
13	CM	124	PRO	4.1
40	BG	28	VAL	4.1
46	DQ	90	VAL	4.1
34	BA	2112	G	4.1
48	DS	51	ALA	4.1
2	CB	150	SER	4.1
40	DG	42	GLY	4.1
33	B8	54	GLU	4.1
1	AA	1503	A	4.1
4	CD	169	LYS	4.1
42	DI	141	LYS	4.1
45	BP	107	LYS	4.1
51	DV	85	LYS	4.1
19	CS	10	PHE	4.1
20	CT	86	ARG	4.1
27	B2	35	LEU	4.1
45	BP	147	LEU	4.1
49	DT	2	ASN	4.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
1	CA	1030(B)	C	4.1
31	D6	21	TYR	4.1
34	DA	2402	C	4.1
36	BC	45	ALA	4.1
40	BG	89	GLY	4.1
48	DS	60	GLY	4.1
55	BZ	12	GLY	4.1
14	CN	4	LYS	4.1
21	CU	25	LYS	4.1
36	DC	120	MET	4.1
43	DN	109	LYS	4.1
54	DY	28	LYS	4.1
7	CG	13	GLN	4.1
11	CK	12	ARG	4.1
34	DA	2801(A)	A	4.1
42	DI	136	VAL	4.1
36	BC	139	ASN	4.1
49	BT	32	TYR	4.1
36	DC	70	LYS	4.1
45	DP	124	LYS	4.1
54	DY	44	ILE	4.1
40	BG	54	GLU	4.1
42	BI	41	GLU	4.1
54	BY	76	CYS	4.1
10	CJ	47	PHE	4.1
23	AW	16	U	4.1
13	AM	88	ARG	4.1
13	CM	88	ARG	4.1
46	DQ	113	GLN	4.1
23	AW	19	G	4.1
25	D0	10	THR	4.0
54	BY	90	LEU	4.0
2	CB	156	LYS	4.0
43	BN	109	LYS	4.0
39	DF	7	TYR	4.0
50	BU	73	GLY	4.0
3	CC	125	GLU	4.0
4	CD	168	ARG	4.0
10	CJ	29	ARG	4.0
36	BC	194	ARG	4.0
34	DA	1179	C	4.0
9	CI	7	THR	4.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
37	BD	40	THR	4.0
46	BQ	135	ASP	4.0
1	AA	1036	G	4.0
1	CA	79	G	4.0
14	CN	2	ALA	4.0
34	DA	10	G	4.0
35	DB	25	A	4.0
10	AJ	38	ILE	4.0
45	DP	82	GLY	4.0
7	AG	74	GLU	4.0
10	CJ	83	GLU	4.0
13	CM	32	GLU	4.0
50	DU	59	ARG	4.0
36	BC	63	SER	4.0
55	DZ	166	SER	4.0
2	AB	238	LEU	4.0
10	AJ	85	LEU	4.0
55	BZ	163	LEU	4.0
34	BA	2172	U	4.0
34	BA	1049	C	4.0
27	D2	41	ILE	4.0
40	DG	63	ILE	4.0
1	CA	1280	A	4.0
2	CB	175	ARG	4.0
11	AK	117	ASN	4.0
34	DA	1048	A	4.0
1	CA	1003	G	4.0
21	AU	18	TYR	4.0
10	CJ	63	PHE	4.0
45	BP	6	LEU	4.0
45	DP	148	LEU	4.0
29	B4	16	CYS	4.0
9	CI	78	LYS	4.0
13	CM	7	VAL	4.0
32	D7	2	LYS	4.0
41	BH	49	VAL	4.0
50	DU	22	LYS	4.0
43	DN	3	THR	4.0
36	BC	220	PRO	4.0
39	DF	23	ASP	4.0
13	CM	85	GLY	4.0
49	BT	39	ARG	4.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
55	DZ	81	ARG	4.0
54	BY	91	GLU	4.0
55	DZ	43	GLU	4.0
2	CB	152	PHE	4.0
19	AS	30	LEU	4.0
34	DA	2602	A	4.0
34	DA	275	G	4.0
4	AD	12	CYS	4.0
31	B6	40	CYS	4.0
31	D6	49	HIS	4.0
31	B6	31	PRO	4.0
29	B4	12	ALA	3.9
31	D6	22	ALA	3.9
48	BS	55	ALA	3.9
10	AJ	58	ASP	3.9
10	CJ	36	GLY	3.9
39	DF	208	GLY	3.9
4	CD	192	GLU	3.9
12	AL	127	GLU	3.9
31	D6	24	GLU	3.9
34	DA	2108	C	3.9
31	D6	34	LEU	3.9
14	CN	50	LYS	3.9
45	DP	137	LYS	3.9
1	CA	412	A	3.9
34	DA	357	A	3.9
29	D4	1	MET	3.9
48	DS	34	HIS	3.9
27	D2	62	THR	3.9
41	BH	129	THR	3.9
1	CA	631	G	3.9
1	CA	1030(A)	G	3.9
23	AW	18	G	3.9
27	D2	59	ARG	3.9
34	DA	1047	G	3.9
50	BU	64	ARG	3.9
53	DX	68	ARG	3.9
21	AU	11	GLY	3.9
3	CC	46	GLU	3.9
26	B1	27	GLU	3.9
39	DF	161	GLU	3.9
26	B1	82	LEU	3.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
13	CM	27	LYS	3.9
13	CM	31	LYS	3.9
14	AN	9	LYS	3.9
47	DR	11	ASN	3.9
1	AA	1161	C	3.9
23	CW	17	C	3.9
34	BA	2174	C	3.9
19	AS	41	VAL	3.9
19	CS	67	VAL	3.9
20	CT	70	SER	3.9
51	BV	50	PRO	3.9
1	AA	1035	A	3.9
13	AM	4	ILE	3.9
13	AM	123	ALA	3.9
26	B1	50	ARG	3.9
26	D1	50	ARG	3.9
33	D8	46	ARG	3.9
40	BG	128	ARG	3.9
45	BP	41	ARG	3.9
46	BQ	136	ALA	3.9
36	DC	121	GLY	3.9
41	DH	127	GLU	3.9
1	CA	1036	G	3.9
13	CM	122	LYS	3.9
29	D4	32	TYR	3.9
10	CJ	68	HIS	3.9
34	DA	2111	C	3.9
36	BC	172	HIS	3.9
20	CT	41	ILE	3.9
42	DI	138	ILE	3.9
10	AJ	59	SER	3.9
13	CM	93	ARG	3.9
26	D1	26	ARG	3.9
40	DG	64	THR	3.9
10	CJ	7	LYS	3.9
40	BG	3	LEU	3.9
54	BY	46	LYS	3.9
23	AW	60	U	3.9
1	CA	1023	G	3.9
1	CA	1117	G	3.9
6	CF	57	GLN	3.9
4	AD	168	ARG	3.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
40	DG	2	PRO	3.9
51	BV	13	ARG	3.9
10	CJ	35	SER	3.9
34	DA	2794	C	3.9
43	BN	63	THR	3.9
55	DZ	149	SER	3.9
26	B1	32	LYS	3.8
30	D5	54	GLY	3.8
38	BE	57	LYS	3.8
43	DN	7	LYS	3.8
47	BR	9	LYS	3.8
51	BV	41	GLY	3.8
12	CL	27	LEU	3.8
30	B5	30	LEU	3.8
31	D6	9	LEU	3.8
36	DC	64	LEU	3.8
10	AJ	54	PHE	3.8
13	CM	69	GLU	3.8
27	D2	12	GLU	3.8
29	B4	18	CYS	3.8
1	CA	84	U	3.8
7	AG	80	VAL	3.8
7	AG	106	GLN	3.8
45	DP	70	GLN	3.8
48	BS	16	ASN	3.8
9	CI	9	ARG	3.8
13	AM	102	ARG	3.8
49	DT	91	ARG	3.8
34	DA	2807	G	3.8
54	BY	33	LYS	3.8
41	BH	33	LEU	3.8
51	DV	38	LEU	3.8
1	AA	1115	C	3.8
12	AL	73	GLU	3.8
34	BA	1530	C	3.8
42	BI	7	GLU	3.8
12	CL	112	ASP	3.8
55	BZ	179	ASP	3.8
1	AA	412	A	3.8
23	CW	60	U	3.8
26	D1	30	VAL	3.8
34	BA	90	U	3.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	BA	896	A	3.8
7	CG	42	ILE	3.8
40	DG	98	ARG	3.8
46	BQ	82	ARG	3.8
11	CK	25	TYR	3.8
12	CL	64	TYR	3.8
20	AT	98	PRO	3.8
21	CU	18	TYR	3.8
36	DC	66	HIS	3.8
30	B5	58	LEU	3.8
36	DC	60	GLY	3.8
55	BZ	147	GLY	3.8
10	AJ	64	GLU	3.8
1	CA	1175	G	3.8
34	BA	355	G	3.8
1	AA	748	C	3.8
1	AA	1030(B)	C	3.8
40	DG	126	ASP	3.8
7	CG	72	ARG	3.8
55	BZ	4	ARG	3.8
36	DC	49	ILE	3.8
2	AB	40	HIS	3.8
24	AX	13	A	3.8
4	CD	151	LYS	3.8
10	AJ	3	LYS	3.8
12	CL	17	LYS	3.8
39	BF	107	LYS	3.8
40	BG	47	LYS	3.8
55	BZ	14	LYS	3.8
36	DC	68	LEU	3.8
41	BH	98	LEU	3.8
2	CB	228	GLY	3.8
25	B0	10	THR	3.8
39	DF	134	GLY	3.8
40	DG	44	GLY	3.8
46	DQ	112	GLU	3.8
9	AI	107	ARG	3.8
40	BG	113	ARG	3.8
42	BI	50	ARG	3.8
45	DP	77	ARG	3.8
49	BT	93	ARG	3.8
2	AB	193	ASP	3.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	BA	100	G	3.8
34	BA	1171	G	3.8
11	CK	51	LYS	3.8
36	DC	82	LYS	3.8
45	BP	64	LYS	3.8
39	DF	204	ASN	3.8
40	DG	130	ASN	3.8
45	BP	9	ASN	3.8
53	DX	41	ASN	3.8
34	BA	548	A	3.8
34	DA	1507	A	3.8
51	DV	40	LEU	3.8
5	CE	29	GLY	3.8
7	AG	82	GLY	3.8
13	AM	85	GLY	3.8
14	CN	55	GLY	3.8
36	DC	69	GLY	3.8
44	DO	27	GLY	3.8
3	CC	10	PHE	3.8
31	B6	24	GLU	3.7
42	BI	135	GLU	3.7
44	BO	92	GLU	3.7
9	AI	126	SER	3.7
26	B1	26	ARG	3.7
29	B4	21	VAL	3.7
38	BE	58	ARG	3.7
7	AG	63	LYS	3.7
30	B5	56	LYS	3.7
38	DE	69	LYS	3.7
53	DX	77	LYS	3.7
6	AF	57	GLN	3.7
8	CH	4	ASP	3.7
20	CT	64	ASP	3.7
26	B1	19	GLN	3.7
40	DG	87	PRO	3.7
3	AC	102	ASN	3.7
3	CC	91	LEU	3.7
5	AE	53	LEU	3.7
38	BE	151	TYR	3.7
42	DI	140	LEU	3.7
1	AA	485	G	3.7
34	BA	1115	G	3.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	DA	883	G	3.7
36	BC	150	GLY	3.7
54	BY	59	GLY	3.7
34	BA	603	A	3.7
8	CH	99	GLU	3.7
17	AQ	96	GLU	3.7
39	BF	161	GLU	3.7
51	DV	23	GLU	3.7
55	DZ	178	GLU	3.7
45	BP	7	ARG	3.7
45	BP	77	ARG	3.7
55	DZ	103	ARG	3.7
5	AE	69	VAL	3.7
51	DV	56	SER	3.7
6	AF	92	LYS	3.7
11	AK	127	LYS	3.7
12	AL	47	LYS	3.7
32	D7	48	LYS	3.7
53	DX	88	LYS	3.7
42	DI	133	HIS	3.7
9	AI	75	ASP	3.7
2	CB	55	PHE	3.7
41	DH	124	GLU	3.7
42	DI	64	GLU	3.7
1	CA	1173	G	3.7
7	AG	78	ARG	3.7
34	BA	354	G	3.7
34	DA	11	G	3.7
47	DR	96	ARG	3.7
1	CA	1256	A	3.7
13	CM	121	LYS	3.7
34	BA	92	A	3.7
34	DA	363(F)	A	3.7
34	DA	2801	A	3.7
41	BH	35	VAL	3.7
55	BZ	111	VAL	3.7
45	DP	25	SER	3.7
55	BZ	149	SER	3.7
5	CE	56	GLN	3.7
2	CB	44	LEU	3.7
33	D8	61	LEU	3.7
7	AG	33	ASP	3.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	DY	55	TYR	3.7
54	DY	92	ASN	3.7
3	AC	51	GLY	3.7
5	CE	83	GLU	3.7
37	BD	83	GLU	3.7
45	DP	144	GLU	3.7
49	DT	54	ARG	3.7
19	CS	55	LYS	3.7
20	AT	74	LYS	3.7
43	DN	37	LYS	3.7
34	DA	543	C	3.7
34	BA	2168	G	3.7
34	DA	272(B)	G	3.7
34	DA	1112	G	3.7
34	DA	2894	G	3.7
36	DC	182	PRO	3.7
42	BI	75	LEU	3.7
47	DR	71	GLN	3.7
36	DC	166	ASP	3.7
12	CL	19	ARG	3.7
13	AM	57	ARG	3.7
13	CM	100	GLY	3.7
20	AT	89	ARG	3.7
27	D2	26	ARG	3.7
45	DP	16	ARG	3.7
26	D1	10	LYS	3.7
41	DH	138	LYS	3.7
50	BU	93	LYS	3.7
51	BV	68	LYS	3.7
54	BY	47	LYS	3.7
7	CG	90	GLU	3.7
17	CQ	96	GLU	3.7
23	CW	20	U	3.7
40	DG	68	PRO	3.6
9	CI	40	LEU	3.6
42	DI	100	ALA	3.6
54	BY	65	ALA	3.6
22	CV	53	G	3.6
34	DA	508	G	3.6
46	BQ	25	ASP	3.6
46	DQ	135	ASP	3.6
2	CB	153	ARG	3.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
9	CI	58	ARG	3.6
12	AL	115	LYS	3.6
31	D6	19	ARG	3.6
36	BC	107	TRP	3.6
36	DC	36	LYS	3.6
40	BG	117	PHE	3.6
42	DI	62	LYS	3.6
55	DZ	14	LYS	3.6
55	DZ	79	ARG	3.6
30	B5	51	TYR	3.6
31	D6	32	ASN	3.6
36	BC	20	TYR	3.6
38	DE	179	GLU	3.6
46	DQ	137	TYR	3.6
12	CL	18	VAL	3.6
38	DE	75	VAL	3.6
34	DA	1033	U	3.6
13	AM	34	LEU	3.6
42	DI	9	LEU	3.6
55	DZ	5	LEU	3.6
10	AJ	13	HIS	3.6
25	D0	70	GLN	3.6
41	BH	155	SER	3.6
2	AB	133	LYS	3.6
7	AG	41	ARG	3.6
7	CG	78	ARG	3.6
9	CI	11	LYS	3.6
18	CR	19	LYS	3.6
34	BA	1046	A	3.6
34	DA	2119	A	3.6
49	BT	118	ARG	3.6
49	DT	13	ARG	3.6
51	BV	74	LYS	3.6
40	DG	117	PHE	3.6
55	DZ	147	GLY	3.6
51	BV	99	ILE	3.6
34	DA	2207	G	3.6
50	BU	90	VAL	3.6
42	DI	108	THR	3.6
1	AA	1281	U	3.6
3	AC	87	LEU	3.6
7	CG	73	MET	3.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
19	CS	30	LEU	3.6
38	BE	53	PRO	3.6
40	BG	86	MET	3.6
42	DI	38	LEU	3.6
42	DI	75	LEU	3.6
43	BN	82	LEU	3.6
51	BV	20	LEU	3.6
2	AB	146	GLN	3.6
9	CI	13	ALA	3.6
12	AL	20	LYS	3.6
26	B1	78	LYS	3.6
14	CN	35	ARG	3.6
47	BR	96	ARG	3.6
4	AD	69	GLY	3.6
9	CI	57	GLY	3.6
36	BC	106	GLY	3.6
1	AA	92	C	3.6
34	DA	286	C	3.6
3	AC	90	GLU	3.6
9	AI	2	GLU	3.6
25	B0	68	GLU	3.6
9	CI	5	TYR	3.6
25	B0	7	LEU	3.6
15	AO	2	PRO	3.6
1	AA	81	U	3.6
1	CA	1025	U	3.6
22	CV	52	G	3.6
11	CK	127	LYS	3.6
36	BC	46	LYS	3.6
46	DQ	8	LYS	3.6
54	DY	47	LYS	3.6
36	DC	59	ARG	3.6
37	BD	244	ARG	3.6
45	BP	90	ARG	3.6
36	BC	60	GLY	3.6
15	CO	3	ILE	3.6
13	AM	73	GLU	3.6
36	BC	24	GLU	3.6
37	DD	28	GLU	3.6
46	BQ	90	VAL	3.6
52	BW	63	ASP	3.6
55	DZ	111	VAL	3.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
40	DG	132	ASN	3.6
46	BQ	32	TYR	3.6
27	D2	60	LEU	3.6
36	DC	207	THR	3.6
42	DI	80	PRO	3.6
51	DV	50	PRO	3.6
26	D1	39	LYS	3.5
50	BU	19	LYS	3.5
4	CD	49	ARG	3.5
5	AE	56	GLN	3.5
14	AN	3	ARG	3.5
26	B1	52	ARG	3.5
30	D5	2	ALA	3.5
37	DD	272	ALA	3.5
39	BF	128	ALA	3.5
45	DP	68	GLN	3.5
1	AA	1126	U	3.5
35	DB	1	U	3.5
47	DR	2	ARG	3.5
55	DZ	112	ARG	3.5
39	BF	129	PHE	3.5
10	AJ	10	GLY	3.5
55	DZ	153	SER	3.5
39	DF	56	GLU	3.5
51	BV	14	VAL	3.5
51	BV	58	VAL	3.5
3	AC	56	ASP	3.5
7	AG	140	ASP	3.5
7	CG	156	TRP	3.5
55	BZ	148	ASP	3.5
49	BT	6	LEU	3.5
13	AM	13	LYS	3.5
38	BE	145	LYS	3.5
42	DI	132	PRO	3.5
34	BA	547	A	3.5
2	AB	137	ARG	3.5
9	AI	9	ARG	3.5
27	B2	14	ARG	3.5
39	DF	17	ARG	3.5
47	DR	3	HIS	3.5
4	CD	42	GLN	3.5
28	D3	22	ALA	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	DY	57	GLN	3.5
34	DA	12	U	3.5
2	AB	127	ILE	3.5
13	CM	112	GLY	3.5
36	BC	146	GLY	3.5
38	DE	71	GLY	3.5
2	AB	141	GLU	3.5
29	B4	1	MET	3.5
36	BC	92	ASP	3.5
29	B4	44	THR	3.5
49	BT	2	ASN	3.5
9	CI	111	ARG	3.5
20	CT	89	ARG	3.5
25	B0	41	ARG	3.5
40	BG	115	ARG	3.5
40	BG	118	ARG	3.5
40	DG	128	ARG	3.5
36	BC	173	ALA	3.5
2	CB	110	GLN	3.5
51	DV	80	GLN	3.5
1	AA	532	A	3.5
1	CA	1004	A	3.5
23	CW	59	U	3.5
36	DC	206	GLY	3.5
38	DE	72	VAL	3.5
43	BN	68	GLU	3.5
9	CI	102	LEU	3.5
12	AL	27	LEU	3.5
19	AS	16	LEU	3.5
42	DI	116	LEU	3.5
44	DO	28	SER	3.5
55	BZ	41	LEU	3.5
8	CH	116	LYS	3.5
21	AU	25	LYS	3.5
32	B7	48	LYS	3.5
46	BQ	63	LYS	3.5
50	DU	84	LYS	3.5
7	CG	41	ARG	3.5
32	D7	49	ARG	3.5
38	BE	37	ARG	3.5
40	DG	83	ARG	3.5
41	DH	170	ARG	3.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	BQ	56	ARG	3.5
48	BS	92	TYR	3.5
55	DZ	122	ARG	3.5
1	AA	631	G	3.5
1	AA	1024	G	3.5
1	CA	1181	G	3.5
19	CS	65	ASN	3.5
34	BA	2661	G	3.5
42	DI	74	ASN	3.5
55	DZ	34	ASN	3.5
3	AC	71	ALA	3.5
8	CH	35	ILE	3.5
34	DA	2629	A	3.5
36	BC	219	GLY	3.5
2	AB	128	GLU	3.5
4	AD	24	GLU	3.5
7	CG	38	LEU	3.5
34	DA	1026	U	3.5
46	DQ	91	GLU	3.5
53	BX	62	LYS	3.5
54	DY	91	GLU	3.5
4	CD	73	ARG	3.5
46	BQ	6	ARG	3.5
48	BS	20	ARG	3.5
10	AJ	12	ASP	3.5
43	BN	73	THR	3.5
43	DN	78	TYR	3.5
55	DZ	107	THR	3.5
31	B6	32	ASN	3.5
38	BE	121	ASN	3.5
1	CA	1001(A)	G	3.4
34	BA	2186	G	3.4
4	AD	9	CYS	3.4
9	CI	6	GLY	3.4
36	DC	132	GLY	3.4
10	CJ	88	LEU	3.4
18	AR	21	LYS	3.4
42	BI	131	LYS	3.4
43	DN	65	LYS	3.4
46	BQ	27	VAL	3.4
49	DT	65	LYS	3.4
54	DY	87	LYS	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
40	BG	48	GLU	3.4
54	BY	64	GLU	3.4
1	AA	1135	U	3.4
13	CM	55	ARG	3.4
40	BG	96	ARG	3.4
41	DH	101	ARG	3.4
49	DT	39	ARG	3.4
6	AF	55	ASP	3.4
9	AI	105	ASP	3.4
43	DN	22	THR	3.4
55	DZ	55	HIS	3.4
55	DZ	152	ALA	3.4
54	BY	89	PHE	3.4
26	D1	91	LYS	3.4
49	DT	1	MET	3.4
2	CB	154	LEU	3.4
5	AE	115	VAL	3.4
19	CS	9	VAL	3.4
29	D4	21	VAL	3.4
43	BN	46	VAL	3.4
51	DV	9	GLY	3.4
49	BT	105	LEU	3.4
2	CB	141	GLU	3.4
14	CN	8	GLU	3.4
42	DI	85	GLU	3.4
1	AA	1023	G	3.4
1	AA	1177	G	3.4
2	CB	23	ARG	3.4
2	CB	64	ARG	3.4
34	DA	1888	G	3.4
38	DE	61	ARG	3.4
1	AA	1086	U	3.4
1	AA	1125	U	3.4
34	DA	2895	U	3.4
1	CA	470	C	3.4
34	BA	543	C	3.4
36	DC	35	ALA	3.4
36	DC	50	ASP	3.4
51	DV	26	ASP	3.4
2	CB	45	GLN	3.4
7	CG	86	GLN	3.4
4	AD	86	LYS	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
7	CG	89	MET	3.4
9	CI	25	LYS	3.4
18	CR	84	LYS	3.4
36	DC	177	LYS	3.4
50	BU	16	LYS	3.4
51	BV	76	LYS	3.4
3	CC	87	LEU	3.4
3	CC	99	VAL	3.4
19	CS	41	VAL	3.4
29	B4	19	GLY	3.4
36	BC	80	GLY	3.4
36	DC	203	GLY	3.4
48	BS	24	LEU	3.4
54	BY	49	VAL	3.4
54	DY	85	VAL	3.4
55	BZ	115	GLY	3.4
38	DE	171	GLU	3.4
45	BP	33	ARG	3.4
49	BT	3	ARG	3.4
2	CB	232	PRO	3.4
34	BA	158	U	3.4
2	CB	140	HIS	3.4
34	DA	356	G	3.4
34	DA	548	A	3.4
34	DA	2793	G	3.4
38	BE	66	HIS	3.4
1	AA	1037	C	3.4
3	AC	48	TYR	3.4
9	CI	105	ASP	3.4
49	BT	42	ILE	3.4
18	CR	21	LYS	3.4
32	D7	1	MET	3.4
34	DA	2164	C	3.4
54	BY	21	LYS	3.4
55	DZ	156	LYS	3.4
37	BD	44	ASN	3.4
3	CC	75	VAL	3.4
7	AG	81	GLY	3.4
9	CI	30	GLY	3.4
36	DC	19	VAL	3.4
39	DF	174	VAL	3.4
43	BN	5	VAL	3.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
45	BP	118	GLY	3.4
55	BZ	106	GLY	3.4
3	CC	85	ARG	3.4
15	CO	88	ARG	3.4
26	B1	93	GLU	3.4
39	DF	179	GLU	3.4
46	BQ	80	GLU	3.4
50	DU	64	ARG	3.4
4	CD	26	CYS	3.4
10	AJ	37	PRO	3.4
41	BH	29	PRO	3.4
20	CT	12	ALA	3.4
36	DC	186	ALA	3.4
12	CL	57	LYS	3.4
26	D1	78	LYS	3.4
32	B7	2	LYS	3.4
39	BF	13	SER	3.4
48	BS	82	ILE	3.4
3	AC	142	MET	3.4
7	AG	156	TRP	3.4
27	B2	38	GLN	3.4
45	BP	68	GLN	3.4
42	BI	77	LEU	3.3
53	DX	95	LEU	3.3
31	D6	26	ASN	3.3
1	AA	1162	C	3.3
15	CO	20	GLY	3.3
50	DU	73	GLY	3.3
38	BE	101	ARG	3.3
52	BW	92	ARG	3.3
2	CB	129	GLU	3.3
2	CB	16	HIS	3.3
12	CL	114	LYS	3.3
15	AO	84	LYS	3.3
19	CS	14	HIS	3.3
37	BD	26	LYS	3.3
38	DE	131	ALA	3.3
50	BU	88	ILE	3.3
52	DW	62	HIS	3.3
1	CA	1281	U	3.3
11	CK	125	PHE	3.3
29	D4	46	GLN	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
48	DS	87	PHE	3.3
55	DZ	144	LEU	3.3
5	CE	69	VAL	3.3
14	CN	34	TYR	3.3
27	B2	52	ASP	3.3
30	B5	60	VAL	3.3
13	CM	94	ARG	3.3
16	AP	71	ARG	3.3
40	DG	33	ARG	3.3
45	DP	41	ARG	3.3
47	BR	68	ARG	3.3
47	DR	105	ARG	3.3
55	BZ	81	ARG	3.3
55	BZ	114	GLY	3.3
1	AA	1001	A	3.3
2	CB	231	GLU	3.3
38	BE	40	GLU	3.3
38	DE	178	GLU	3.3
41	DH	167	GLU	3.3
55	DZ	84	GLU	3.3
34	DA	154(A)	C	3.3
34	BA	2123	G	3.3
34	DA	274	G	3.3
41	BH	126	PRO	3.3
26	B1	92	LYS	3.3
50	BU	54	LYS	3.3
3	AC	208	ILE	3.3
42	DI	115	ALA	3.3
50	DU	88	ILE	3.3
9	CI	59	PHE	3.3
19	CS	71	LEU	3.3
20	AT	72	LEU	3.3
37	BD	33	LEU	3.3
40	DG	23	PHE	3.3
41	DH	98	LEU	3.3
9	CI	27	THR	3.3
36	DC	34	THR	3.3
36	DC	62	VAL	3.3
43	DN	61	ARG	3.3
52	DW	68	ARG	3.3
21	AU	2	GLY	3.3
36	DC	109	ASP	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
38	BE	186	GLY	3.3
3	CC	19	GLU	3.3
12	CL	73	GLU	3.3
4	CD	37	PRO	3.3
12	CL	94	PRO	3.3
24	AX	12	A	3.3
34	BA	1177	A	3.3
34	DA	1046	A	3.3
13	AM	65	LYS	3.3
36	BC	157	LYS	3.3
41	DH	140	LYS	3.3
34	BA	2791	C	3.3
38	BE	134	ILE	3.3
44	DO	112	MET	3.3
11	CK	128	ALA	3.3
33	D8	31	HIS	3.3
23	CW	18	G	3.3
3	AC	15	THR	3.3
3	AC	99	VAL	3.3
8	CH	102	ARG	3.3
13	CM	57	ARG	3.3
15	AO	88	ARG	3.3
33	B8	35	GLN	3.3
16	CP	45	THR	3.3
36	BC	59	ARG	3.3
42	BI	61	ARG	3.3
46	DQ	10	ARG	3.3
55	DZ	71	VAL	3.3
4	CD	69	GLY	3.3
29	D4	45	GLY	3.3
36	BC	90	GLY	3.3
36	DC	106	GLY	3.3
48	DS	31	SER	3.3
2	AB	148	TYR	3.3
2	AB	86	GLU	3.3
2	AB	126	GLU	3.3
17	AQ	48	GLU	3.3
2	AB	139	LYS	3.3
27	B2	28	LYS	3.3
27	B2	49	LYS	3.3
42	DI	111	PRO	3.3
1	AA	1447	A	3.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
22	CV	76	A	3.3
34	BA	1106	A	3.3
49	BT	83	ILE	3.3
9	CI	117	HIS	3.3
29	D4	12	ALA	3.3
1	CA	91	C	3.3
1	CA	1397	C	3.3
2	AB	36	ARG	3.3
34	DA	2306	C	3.3
41	BH	59	ARG	3.3
7	CG	21	VAL	3.3
28	D3	56	VAL	3.3
2	CB	73	THR	3.3
53	BX	37	THR	3.3
34	DA	1581	G	3.3
39	DF	207	GLY	3.3
48	BS	60	GLY	3.3
54	DY	58	GLY	3.3
36	DC	20	TYR	3.2
2	AB	12	GLU	3.2
2	CB	59	GLU	3.2
9	CI	2	GLU	3.2
45	BP	17	LYS	3.2
45	BP	117	GLU	3.2
36	DC	99	ILE	3.2
2	AB	62	ALA	3.2
27	D2	13	ALA	3.2
41	DH	111	HIS	3.2
31	D6	11	LEU	3.2
26	D1	20	ARG	3.2
30	B5	55	ARG	3.2
34	DA	1508	A	3.2
34	DA	2892	A	3.2
41	DH	42	ARG	3.2
42	DI	82	ARG	3.2
45	DP	33	ARG	3.2
51	DV	13	ARG	3.2
55	BZ	35	ARG	3.2
38	BE	59	VAL	3.2
3	CC	9	GLY	3.2
20	AT	101	GLY	3.2
20	AT	103	GLY	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	AB	106	LYS	3.2
7	CG	53	LYS	3.2
48	DS	11	LYS	3.2
3	CC	161	GLU	3.2
11	AK	79	SER	3.2
26	D1	83	GLU	3.2
36	DC	54	SER	3.2
43	DN	4	TYR	3.2
2	CB	43	ASP	3.2
10	CJ	17	ASP	3.2
12	AL	112	ASP	3.2
1	CA	202	U	3.2
34	BA	361	G	3.2
34	BA	1559	G	3.2
34	DA	1529	G	3.2
34	DA	2116	G	3.2
3	CC	5	ILE	3.2
10	AJ	74	ILE	3.2
36	BC	149	ILE	3.2
40	BG	39	ILE	3.2
42	DI	71	ILE	3.2
3	AC	42	LEU	3.2
3	CC	53	ALA	3.2
48	DS	101	LEU	3.2
55	BZ	144	LEU	3.2
18	CR	29	PHE	3.2
40	DG	80	PHE	3.2
9	AI	44	VAL	3.2
42	DI	107	VAL	3.2
51	BV	51	VAL	3.2
2	CB	18	GLY	3.2
6	CF	92	LYS	3.2
18	AR	23	LYS	3.2
34	BA	1460	A	3.2
34	DA	6	A	3.2
45	BP	14	LYS	3.2
54	BY	95	LYS	3.2
54	DY	21	LYS	3.2
3	AC	67	THR	3.2
36	BC	144	THR	3.2
53	DX	27	THR	3.2
48	DS	43	GLU	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	CB	48	MET	3.2
11	CK	50	TYR	3.2
22	CV	1	C	3.2
34	DA	2804	C	3.2
36	BC	49	ILE	3.2
36	BC	100	ILE	3.2
43	DN	127	ASP	3.2
50	BU	56	ASP	3.2
34	DA	504	U	3.2
36	BC	57	ASN	3.2
10	AJ	40	LEU	3.2
2	AB	82	ARG	3.2
2	CB	130	ARG	3.2
10	AJ	79	ARG	3.2
26	B1	40	ARG	3.2
36	DC	53	ARG	3.2
41	BH	69	ARG	3.2
45	BP	21	ARG	3.2
48	DS	20	ARG	3.2
48	DS	95	HIS	3.2
1	AA	1182	G	3.2
29	D4	49	PHE	3.2
35	DB	111	G	3.2
2	AB	112	VAL	3.2
10	AJ	101	VAL	3.2
8	AH	98	LYS	3.2
10	CJ	21	GLN	3.2
18	CR	23	LYS	3.2
19	CS	68	GLY	3.2
36	BC	124	GLY	3.2
36	DC	143	GLY	3.2
45	BP	28	GLY	3.2
55	DZ	143	GLY	3.2
11	CK	57	THR	3.2
1	AA	1005	A	3.2
34	BA	357	A	3.2
34	BA	1048	A	3.2
36	BC	197	GLU	3.2
43	BN	139	GLU	3.2
29	B4	15	ILE	3.2
36	DC	100	ILE	3.2
42	BI	138	ILE	3.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
55	BZ	3	TYR	3.2
55	DZ	146	ILE	3.2
2	CB	195	ASP	3.2
39	DF	197	ASP	3.2
50	BU	97	ASP	3.2
1	AA	1030	C	3.2
5	AE	27	ARG	3.2
7	AG	84	ASN	3.2
8	AH	119	LEU	3.2
8	AH	28	ALA	3.2
9	AI	111	ARG	3.2
13	AM	55	ARG	3.2
34	BA	1420	U	3.2
41	BH	158	HIS	3.2
31	D6	52	VAL	3.2
41	BH	50	VAL	3.2
51	BV	69	LYS	3.2
51	DV	76	LYS	3.2
55	BZ	118	GLN	3.2
1	AA	1026	G	3.2
1	CA	1124	G	3.2
22	AV	52	G	3.2
34	BA	651	G	3.2
34	DA	271(M)	G	3.2
36	DC	159	GLY	3.2
52	DW	112	GLY	3.2
2	CB	35	GLU	3.2
5	AE	81	GLU	3.2
18	AR	83	GLU	3.2
36	BC	162	GLU	3.2
38	DE	73	GLU	3.2
5	AE	60	TYR	3.1
34	DA	2310	A	3.1
2	CB	192	SER	3.1
9	CI	10	ARG	3.1
31	B6	36	LEU	3.1
46	DQ	59	ARG	3.1
50	BU	52	ARG	3.1
55	DZ	41	LEU	3.1
25	D0	15	ASP	3.1
40	BG	46	ALA	3.1
36	BC	66	HIS	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
7	AG	53	LYS	3.1
54	BY	87	LYS	3.1
2	CB	81	VAL	3.1
41	DH	99	VAL	3.1
45	BP	101	VAL	3.1
55	DZ	96	VAL	3.1
53	BX	82	GLN	3.1
39	BF	134	GLY	3.1
53	DX	94	GLY	3.1
13	AM	116	THR	3.1
26	B1	75	GLU	3.1
42	DI	66	GLU	3.1
55	BZ	107	THR	3.1
19	CS	42	PRO	3.1
42	BI	120	ILE	3.1
2	AB	23	ARG	3.1
9	CI	20	ARG	3.1
19	CS	37	ARG	3.1
20	CT	25	ARG	3.1
34	BA	1529	G	3.1
34	BA	2630	G	3.1
42	BI	72	LEU	3.1
5	CE	60	TYR	3.1
20	AT	68	LYS	3.1
42	DI	63	ALA	3.1
34	BA	2662	A	3.1
52	BW	22	ASP	3.1
55	BZ	174	VAL	3.1
34	BA	877	U	3.1
13	CM	101	GLN	3.1
1	CA	1260	C	3.1
9	CI	67	GLY	3.1
19	AS	26	GLY	3.1
34	BA	280	C	3.1
40	DG	86	MET	3.1
36	BC	132	GLY	3.1
53	BX	61	GLY	3.1
3	CC	192	THR	3.1
25	B0	27	GLU	3.1
49	DT	42	ILE	3.1
53	BX	35	THR	3.1
41	DH	132	ARG	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	BI	140	LEU	3.1
51	BV	62	LEU	3.1
2	CB	147	LYS	3.1
14	CN	58	LYS	3.1
30	B5	3	LYS	3.1
50	BU	22	LYS	3.1
9	AI	46	ALA	3.1
49	BT	131	ALA	3.1
38	DE	159	HIS	3.1
3	CC	3	ASN	3.1
6	AF	83	ASP	3.1
34	BA	2751	G	3.1
34	DA	102	G	3.1
53	BX	6	ASP	3.1
55	DZ	74	VAL	3.1
1	CA	1005	A	3.1
34	DA	359	A	3.1
7	AG	144	MET	3.1
3	AC	136	GLN	3.1
22	CV	47	U	3.1
27	B2	56	GLN	3.1
2	CB	32	ILE	3.1
3	AC	161	GLU	3.1
8	CH	45	ILE	3.1
47	BR	115	GLU	3.1
50	BU	111	GLU	3.1
2	AB	73	THR	3.1
2	AB	96	ARG	3.1
2	CB	54	THR	3.1
3	AC	192	THR	3.1
7	AG	16	LEU	3.1
41	BH	118	PRO	3.1
45	DP	23	PRO	3.1
49	DT	27	THR	3.1
6	CF	39	LYS	3.1
19	CS	18	LYS	3.1
37	BD	39	LYS	3.1
54	DY	95	LYS	3.1
55	BZ	78	LYS	3.1
10	AJ	32	ALA	3.1
26	B1	15	ALA	3.1
46	BQ	36	ALA	3.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
52	DW	74	ALA	3.1
2	AB	113	HIS	3.1
2	AB	105	PHE	3.1
26	D1	14	VAL	3.1
45	DP	19	VAL	3.1
36	BC	105	ASP	3.1
55	BZ	92	SER	3.1
7	CG	31	MET	3.1
44	DO	1	MET	3.1
4	CD	160	GLN	3.1
9	CI	24	GLY	3.1
39	BF	207	GLY	3.1
42	BI	104	GLN	3.1
53	BX	24	GLY	3.1
55	DZ	50	GLN	3.1
1	AA	471	G	3.1
1	AA	1120	G	3.1
34	BA	2162	G	3.1
1	CA	1135	U	3.1
23	CW	32	U	3.1
23	CW	33	U	3.1
2	AB	52	GLU	3.1
4	CD	115	ARG	3.1
10	CJ	40	LEU	3.1
13	CM	50	GLU	3.1
14	CN	57	ARG	3.1
25	B0	74	ARG	3.1
28	D3	29	ARG	3.1
41	BH	159	GLU	3.1
44	BO	94	ARG	3.1
48	DS	15	ARG	3.1
10	AJ	14	LYS	3.1
10	AJ	80	LYS	3.1
12	AL	114	LYS	3.1
39	BF	108	LYS	3.1
43	DN	15	LEU	3.1
43	BN	22	THR	3.1
49	DT	98	LYS	3.1
1	CA	1128	C	3.1
2	CB	62	ALA	3.0
11	CK	94	ALA	3.0
46	DQ	136	ALA	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
8	AH	58	TYR	3.0
25	D0	78	TYR	3.0
41	DH	49	VAL	3.0
5	CE	73	ASN	3.0
6	AF	32	ASN	3.0
10	AJ	17	ASP	3.0
11	CK	26	ASN	3.0
21	AU	5	ASP	3.0
7	CG	106	GLN	3.0
48	DS	22	GLY	3.0
9	AI	10	ARG	3.0
40	DG	52	ILE	3.0
41	DH	72	ILE	3.0
47	BR	105	ARG	3.0
7	CG	139	GLU	3.0
7	CG	142	GLU	3.0
19	AS	32	LYS	3.0
26	B1	96	LYS	3.0
41	BH	127	GLU	3.0
42	DI	44	LEU	3.0
24	CX	12	A	3.0
43	DN	93	THR	3.0
1	CA	1174	G	3.0
13	CM	2	ALA	3.0
36	BC	158	ALA	3.0
2	CB	113	HIS	3.0
3	CC	66	VAL	3.0
10	CJ	72	VAL	3.0
28	D3	59	VAL	3.0
36	BC	147	PHE	3.0
36	BC	192	PHE	3.0
48	DS	49	VAL	3.0
36	DC	55	ASP	3.0
7	AG	86	GLN	3.0
11	AK	13	GLN	3.0
21	CU	11	GLY	3.0
10	AJ	55	LYS	3.0
12	CL	21	LYS	3.0
27	D2	50	ILE	3.0
31	D6	33	LYS	3.0
40	DG	113	ARG	3.0
51	BV	96	ILE	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	DV	6	LYS	3.0
53	DX	72	LYS	3.0
41	DH	64	LEU	3.0
43	DN	82	LEU	3.0
48	DS	24	LEU	3.0
5	AE	83	GLU	3.0
6	CF	96	PRO	3.0
36	BC	182	PRO	3.0
41	DH	116	GLU	3.0
1	AA	1196	U	3.0
16	CP	84	ALA	3.0
34	BA	1545	A	3.0
3	CC	69	HIS	3.0
55	DZ	165	VAL	3.0
1	CA	181	G	3.0
2	AB	97	TRP	3.0
34	DA	360	G	3.0
1	AA	1116	C	3.0
1	CA	1114	C	3.0
2	AB	147	LYS	3.0
2	CB	137	ARG	3.0
9	CI	51	ARG	3.0
10	CJ	70	ARG	3.0
11	CK	126	ARG	3.0
14	CN	42	ILE	3.0
20	CT	68	LYS	3.0
26	D1	52	ARG	3.0
33	D8	30	ARG	3.0
36	BC	48	GLY	3.0
36	BC	210	ARG	3.0
40	DG	96	ARG	3.0
45	DP	109	GLY	3.0
55	BZ	143	GLY	3.0
2	CB	51	LEU	3.0
26	B1	80	LEU	3.0
42	BI	116	LEU	3.0
2	CB	131	PRO	3.0
12	CL	79	GLU	3.0
40	DG	35	GLU	3.0
49	BT	134	GLU	3.0
1	AA	84	U	3.0
38	DE	1	MET	3.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
46	DQ	83	MET	3.0
10	CJ	34	VAL	3.0
26	B1	30	VAL	3.0
41	BH	141	VAL	3.0
3	AC	199	LYS	3.0
4	AD	18	LYS	3.0
42	BI	118	LYS	3.0
2	CB	21	ARG	3.0
9	AI	51	ARG	3.0
19	AS	37	ARG	3.0
40	DG	51	ARG	3.0
42	DI	67	ARG	3.0
45	DP	110	TYR	3.0
46	BQ	59	ARG	3.0
9	CI	56	LEU	3.0
19	CS	5	LEU	3.0
26	D1	31	GLY	3.0
41	BH	120	GLY	3.0
51	BV	54	GLY	3.0
1	AA	1258	G	3.0
1	CA	1177	G	3.0
34	DA	2123	G	3.0
34	DA	2661	G	3.0
11	AK	111	ASP	3.0
7	CG	146	GLU	3.0
42	BI	146	ALA	3.0
42	DI	59	ALA	3.0
49	BT	27	THR	3.0
25	B0	3	HIS	3.0
5	CE	92	LYS	2.9
12	AL	57	LYS	2.9
21	CU	20	LYS	2.9
45	DP	132	LYS	2.9
18	CR	54	ARG	2.9
40	BG	51	ARG	2.9
41	BH	170	ARG	2.9
1	CA	1503	A	2.9
2	CB	121	LEU	2.9
6	CF	48	LEU	2.9
16	CP	38	TYR	2.9
19	CS	15	LEU	2.9
50	BU	76	TYR	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
26	D1	56	GLN	2.9
39	BF	208	GLY	2.9
43	DN	69	GLN	2.9
55	DZ	114	GLY	2.9
3	AC	122	GLU	2.9
3	CC	109	PRO	2.9
19	AS	17	GLU	2.9
29	D4	11	PRO	2.9
43	BN	129	PRO	2.9
45	BP	74	GLU	2.9
55	BZ	140	ASP	2.9
55	DZ	148	ASP	2.9
1	CA	1022	G	2.9
31	B6	43	CYS	2.9
34	DA	1107	G	2.9
49	BT	1	MET	2.9
52	BW	1	MET	2.9
12	CL	128	ALA	2.9
34	BA	2161	C	2.9
34	DA	1493	C	2.9
7	AG	9	VAL	2.9
36	DC	72	VAL	2.9
3	CC	176	HIS	2.9
55	DZ	54	HIS	2.9
17	AQ	100	LYS	2.9
37	BD	35	LYS	2.9
43	BN	37	LYS	2.9
46	DQ	22	LYS	2.9
49	BT	137	LYS	2.9
54	DY	8	LYS	2.9
3	CC	119	ARG	2.9
16	CP	71	ARG	2.9
18	AR	55	ARG	2.9
36	DC	52	ARG	2.9
36	DC	73	ARG	2.9
43	BN	61	ARG	2.9
55	DZ	4	ARG	2.9
53	DX	89	ILE	2.9
9	AI	102	LEU	2.9
17	AQ	74	LEU	2.9
18	AR	76	LEU	2.9
27	B2	16	LEU	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
33	B8	61	LEU	2.9
48	BS	32	LEU	2.9
49	DT	105	LEU	2.9
41	DH	82	GLY	2.9
15	CO	13	GLN	2.9
46	DQ	9	TYR	2.9
1	AA	1004	A	2.9
36	DC	202	GLU	2.9
27	D2	33	MET	2.9
2	CB	71	VAL	2.9
2	AB	22	LYS	2.9
19	AS	18	LYS	2.9
30	B5	44	THR	2.9
46	BQ	65	PHE	2.9
47	BR	95	THR	2.9
14	AN	31	ARG	2.9
45	BP	16	ARG	2.9
45	DP	21	ARG	2.9
1	AA	1175	G	2.9
34	BA	1176	G	2.9
34	BA	2115	G	2.9
34	DA	1591	G	2.9
34	DA	2120	G	2.9
10	AJ	4	ILE	2.9
29	D4	22	ILE	2.9
8	CH	2	LEU	2.9
26	D1	80	LEU	2.9
6	AF	27	GLN	2.9
36	BC	174	PRO	2.9
36	DC	174	PRO	2.9
43	BN	79	PRO	2.9
28	B3	48	GLU	2.9
39	DF	120	GLU	2.9
41	DH	53	GLU	2.9
45	DP	117	GLU	2.9
51	DV	53	GLU	2.9
11	CK	67	ASP	2.9
38	DE	42	ASP	2.9
40	BG	49	ASP	2.9
43	BN	127	ASP	2.9
48	BS	41	ASP	2.9
7	AG	87	VAL	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
13	AM	31	LYS	2.9
25	D0	5	LYS	2.9
45	DP	14	LYS	2.9
48	BS	102	ALA	2.9
54	DY	19	LYS	2.9
2	AB	226	ARG	2.9
2	CB	226	ARG	2.9
8	CH	18	ARG	2.9
33	D8	42	ARG	2.9
43	DN	134	ARG	2.9
54	DY	79	CYS	2.9
7	CG	49	ILE	2.9
10	CJ	4	ILE	2.9
27	D2	57	ILE	2.9
42	DI	97	ILE	2.9
1	AA	1028	C	2.9
1	AA	1137	C	2.9
1	CA	1090	U	2.9
42	BI	106	GLY	2.9
45	BP	43	GLY	2.9
45	DP	118	GLY	2.9
1	AA	1021	G	2.9
34	DA	1173	G	2.9
34	DA	2162	G	2.9
36	BC	93	TYR	2.9
38	DE	151	TYR	2.9
39	DF	25	PRO	2.9
13	CM	35	GLU	2.9
17	CQ	24	GLU	2.9
28	B3	60	GLU	2.9
38	BE	73	GLU	2.9
49	BT	109	GLU	2.9
6	CF	55	ASP	2.9
7	CG	9	VAL	2.9
9	CI	108	VAL	2.9
26	B1	14	VAL	2.9
38	DE	174	ASP	2.9
45	BP	87	ASP	2.9
55	DZ	164	ALA	2.9
36	BC	37	PHE	2.9
5	CE	27	ARG	2.9
9	AI	20	ARG	2.9

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
9	CI	83	ARG	2.9
13	CM	108	ARG	2.9
17	AQ	68	ARG	2.9
34	DA	2171	A	2.9
37	BD	262	ARG	2.9
48	BS	106	ARG	2.9
55	BZ	166	SER	2.9
51	BV	87	HIS	2.9
2	AB	115	LEU	2.9
3	AC	5	ILE	2.9
11	CK	21	ILE	2.9
26	B1	94	LEU	2.9
28	D3	37	LEU	2.9
39	BF	140	LEU	2.9
40	DG	20	ILE	2.9
55	BZ	171	ILE	2.9
15	CO	89	GLY	2.8
55	BZ	64	GLY	2.8
28	D3	19	GLN	2.8
39	DF	14	PRO	2.8
50	DU	25	TRP	2.8
1	AA	1029	C	2.8
28	D3	38	GLU	2.8
31	B6	12	GLU	2.8
34	BA	1178	C	2.8
34	DA	1420	U	2.8
2	CB	27	LYS	2.8
8	CH	98	LYS	2.8
20	CT	58	LYS	2.8
42	BI	87	LYS	2.8
43	DN	2	LYS	2.8
50	DU	5	LYS	2.8
1	CA	485	G	2.8
1	CA	993	G	2.8
10	AJ	46	ARG	2.8
13	CM	118	ALA	2.8
33	B8	30	ARG	2.8
36	DC	122	ALA	2.8
37	BD	176	ARG	2.8
39	BF	133	ASN	2.8
39	DF	129	PHE	2.8
41	BH	147	ASN	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	BV	21	ARG	2.8
2	AB	140	HIS	2.8
4	CD	91	SER	2.8
45	BP	25	SER	2.8
7	AG	49	ILE	2.8
31	D6	47	THR	2.8
36	BC	136	LEU	2.8
34	DA	1045	A	2.8
27	D2	42	GLY	2.8
51	BV	65	GLY	2.8
50	BU	71	GLN	2.8
13	AM	50	GLU	2.8
21	CU	14	TRP	2.8
33	D8	29	LYS	2.8
43	BN	2	LYS	2.8
46	DQ	18	LYS	2.8
52	DW	110	LYS	2.8
7	CG	74	GLU	2.8
38	DE	163	GLU	2.8
42	DI	7	GLU	2.8
55	DZ	162	GLU	2.8
19	CS	61	TYR	2.8
29	B4	32	TYR	2.8
34	DA	271(K)	U	2.8
34	DA	1175	U	2.8
1	AA	1259	C	2.8
1	CA	1277	C	2.8
4	CD	131	ARG	2.8
7	CG	94	ARG	2.8
9	CI	82	ALA	2.8
10	CJ	44	VAL	2.8
10	CJ	79	ARG	2.8
34	DA	645	C	2.8
36	BC	94	VAL	2.8
39	BF	80	ALA	2.8
40	BG	50	ALA	2.8
41	DH	133	VAL	2.8
43	BN	132	ALA	2.8
11	AK	125	PHE	2.8
51	DV	2	PHE	2.8
7	AG	153	HIS	2.8
10	AJ	76	ASN	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
36	DC	165	ASN	2.8
10	CJ	38	ILE	2.8
36	BC	99	ILE	2.8
36	BC	187	ASP	2.8
38	DE	66	HIS	2.8
42	DI	77	LEU	2.8
51	DV	95	LEU	2.8
1	AA	1031	G	2.8
1	AA	1442(A)	G	2.8
1	CA	1283	G	2.8
23	AY	27	G	2.8
23	AY	44	G	2.8
36	BC	61	THR	2.8
1	AA	1286	A	2.8
4	CD	180	GLY	2.8
36	DC	108	MET	2.8
51	DV	41	GLY	2.8
55	DZ	106	GLY	2.8
26	D1	33	LYS	2.8
54	DY	88	LYS	2.8
36	BC	65	PRO	2.8
39	BF	56	GLU	2.8
47	DR	102	GLU	2.8
55	BZ	119	GLU	2.8
2	AB	114	ARG	2.8
8	AH	30	ARG	2.8
8	AH	50	ARG	2.8
9	AI	53	VAL	2.8
9	AI	58	ARG	2.8
11	AK	14	VAL	2.8
29	D4	43	TYR	2.8
41	DH	17	VAL	2.8
42	DI	145	VAL	2.8
50	DU	52	ARG	2.8
51	DV	88	ARG	2.8
3	CC	186	PHE	2.8
20	CT	106	ALA	2.8
38	DE	67	PHE	2.8
36	BC	156	ILE	2.8
43	BN	128	HIS	2.8
2	AB	191	ASP	2.8
7	CG	20	ASP	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
28	B3	18	ASP	2.8
34	BA	1532	C	2.8
34	DA	1109	C	2.8
19	CS	35	SER	2.8
39	DF	136	THR	2.8
42	BI	78	THR	2.8
48	DS	27	SER	2.8
3	CC	27	LYS	2.8
42	DI	56	LYS	2.8
45	BP	46	LYS	2.8
48	BS	11	LYS	2.8
54	DY	101	LYS	2.8
9	AI	100	GLY	2.8
25	D0	8	GLY	2.8
15	AO	71	GLN	2.8
34	DA	2124	G	2.8
50	DU	104	GLN	2.8
4	CD	145	GLU	2.8
27	B2	31	GLU	2.8
34	BA	2062	A	2.8
40	BG	35	GLU	2.8
51	BV	15	GLU	2.8
53	DX	90	GLU	2.8
53	DX	93	GLU	2.8
55	BZ	84	GLU	2.8
3	AC	38	ARG	2.8
5	AE	24	ARG	2.8
7	CG	95	ARG	2.8
11	AK	126	ARG	2.8
48	DS	13	ARG	2.8
50	BU	101	ARG	2.8
7	CG	66	VAL	2.8
41	BH	15	VAL	2.8
53	DX	52	VAL	2.8
5	CE	95	ALA	2.8
9	CI	43	ALA	2.8
36	DC	110	PHE	2.8
42	BI	100	ALA	2.8
51	BV	2	PHE	2.8
2	CB	214	ILE	2.8
33	D8	32	LEU	2.8
34	BA	271(N)	U	2.8

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	BA	362	U	2.8
34	BA	2118	U	2.8
34	DA	90	U	2.8
45	DP	115	LEU	2.8
3	CC	183	ASP	2.8
9	CI	127	LYS	2.8
26	D1	32	LYS	2.8
29	D4	27	THR	2.8
39	DF	137	LYS	2.8
40	BG	55	LYS	2.8
40	BG	74	LYS	2.8
40	DG	182	LYS	2.8
55	DZ	46	LYS	2.8
34	DA	271(O)	C	2.8
34	DA	1180	C	2.8
36	BC	121	GLY	2.8
12	AL	94	PRO	2.8
49	DT	90	GLN	2.7
2	AB	35	GLU	2.7
20	CT	83	ARG	2.7
26	D1	40	ARG	2.7
28	B3	57	GLU	2.7
40	BG	83	ARG	2.7
42	DI	113	ARG	2.7
43	BN	12	ARG	2.7
14	CN	18	VAL	2.7
46	DQ	27	VAL	2.7
1	AA	157	G	2.7
1	AA	158	G	2.7
1	AA	1138	G	2.7
1	AA	1173	G	2.7
1	CA	1130	A	2.7
13	CM	64	TRP	2.7
34	BA	229	A	2.7
38	BE	68	ALA	2.7
2	CB	69	LEU	2.7
10	AJ	88	LEU	2.7
31	B6	9	LEU	2.7
34	DA	407	G	2.7
36	DC	149	ILE	2.7
43	DN	67	LEU	2.7
48	DS	94	TYR	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	BY	75	ILE	2.7
41	BH	65	HIS	2.7
8	AH	116	LYS	2.7
15	CO	84	LYS	2.7
20	AT	29	LYS	2.7
43	BN	65	LYS	2.7
46	BQ	87	LYS	2.7
2	CB	66	GLY	2.7
51	BV	9	GLY	2.7
40	BG	87	PRO	2.7
3	AC	162	GLN	2.7
4	AD	139	ARG	2.7
7	AG	94	ARG	2.7
28	D3	3	ARG	2.7
36	DC	210	ARG	2.7
39	DF	119	ARG	2.7
34	DA	1041	C	2.7
43	BN	133	GLN	2.7
3	CC	206	GLU	2.7
38	BE	163	GLU	2.7
42	BI	73	GLU	2.7
55	DZ	119	GLU	2.7
13	CM	98	VAL	2.7
46	DQ	102	VAL	2.7
48	DS	14	VAL	2.7
7	AG	59	LEU	2.7
16	AP	84	ALA	2.7
14	AN	7	ILE	2.7
20	CT	84	LEU	2.7
27	D2	58	ALA	2.7
29	D4	39	CYS	2.7
36	BC	122	ALA	2.7
38	DE	63	LEU	2.7
41	DH	156	ALA	2.7
45	BP	140	ALA	2.7
3	AC	184	TYR	2.7
10	AJ	62	HIS	2.7
41	DH	83	TYR	2.7
2	CB	132	LYS	2.7
12	AL	126	LYS	2.7
33	B8	39	LYS	2.7
34	BA	363(F)	A	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
35	BB	25	A	2.7
47	BR	99	LYS	2.7
1	CA	81	U	2.7
1	CA	1266	G	2.7
34	BA	2702	U	2.7
34	DA	651	G	2.7
34	DA	1044	G	2.7
34	DA	1113	U	2.7
21	CU	17	THR	2.7
38	BE	45	THR	2.7
38	BE	107	THR	2.7
9	CI	68	GLY	2.7
16	AP	68	ASP	2.7
36	DC	92	ASP	2.7
41	BH	82	GLY	2.7
2	CB	202	PRO	2.7
3	CC	16	ARG	2.7
4	AD	37	PRO	2.7
7	AG	3	ARG	2.7
42	BI	67	ARG	2.7
55	DZ	72	ARG	2.7
55	BZ	65	GLN	2.7
28	D3	48	GLU	2.7
39	BF	19	GLU	2.7
40	DG	164	GLU	2.7
49	BT	21	GLU	2.7
55	BZ	11	GLU	2.7
7	CG	135	VAL	2.7
41	BH	24	VAL	2.7
45	DP	71	VAL	2.7
2	AB	39	ILE	2.7
9	AI	61	ALA	2.7
22	AV	17	C	2.7
29	B4	22	ILE	2.7
36	BC	152	ILE	2.7
38	BE	205	ALA	2.7
40	DG	3	LEU	2.7
2	CB	22	LYS	2.7
8	CH	46	LYS	2.7
20	CT	29	LYS	2.7
48	BS	95	HIS	2.7
51	DV	91	TYR	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
52	BW	111	HIS	2.7
34	DA	2660	A	2.7
1	AA	1000	U	2.7
3	CC	110	ASN	2.7
4	CD	77	ASN	2.7
2	CB	30	ARG	2.7
3	AC	88	ARG	2.7
5	AE	40	ARG	2.7
9	AI	83	ARG	2.7
11	CK	87	THR	2.7
34	BA	2897	U	2.7
34	DA	158	U	2.7
34	DA	2118	U	2.7
42	DI	76	THR	2.7
45	DP	84	ASN	2.7
55	DZ	69	THR	2.7
4	CD	134	ASP	2.7
12	AL	31	PRO	2.7
30	B5	32	PRO	2.7
36	DC	65	PRO	2.7
38	BE	62	PRO	2.7
42	DI	96	ASP	2.7
50	DU	56	ASP	2.7
1	CA	1160	G	2.7
23	CY	44	G	2.7
2	CB	12	GLU	2.7
7	AG	146	GLU	2.7
7	CG	8	GLU	2.7
39	BF	11	VAL	2.7
40	DG	13	GLU	2.7
41	BH	34	GLU	2.7
54	BY	57	GLN	2.7
51	BV	47	VAL	2.7
54	BY	51	VAL	2.7
55	BZ	145	GLU	2.7
11	CK	95	ILE	2.7
28	B3	37	LEU	2.7
51	BV	35	LEU	2.7
10	CJ	20	ALA	2.7
38	DE	51	PHE	2.7
3	AC	147	LYS	2.7
36	DC	46	LYS	2.7

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
43	DN	21	LYS	2.7
55	BZ	98	MET	2.7
39	BF	172	TRP	2.7
43	DN	130	HIS	2.7
1	AA	1145	C	2.7
1	AA	1260	C	2.7
1	CA	178	C	2.7
1	CA	1161	C	2.7
1	CA	1163	C	2.7
30	D5	52	TYR	2.7
31	D6	43	CYS	2.7
54	DY	76	CYS	2.7
3	CC	132	ARG	2.7
7	AG	76	ARG	2.7
7	AG	155	ARG	2.7
9	AI	16	ARG	2.7
27	B2	26	ARG	2.7
36	DC	57	ASN	2.7
39	BF	30	PRO	2.7
40	DG	161	THR	2.7
42	DI	16	GLY	2.7
1	CA	1001	A	2.7
1	CA	1442(B)	A	2.7
23	CW	58	A	2.7
34	BA	1174	A	2.7
34	BA	1445	A	2.7
34	DA	1054	A	2.7
55	DZ	123	ASP	2.7
2	CB	170	GLU	2.7
4	CD	156	GLU	2.7
17	AQ	93	GLN	2.7
36	DC	41	VAL	2.7
51	BV	28	GLU	2.7
52	DW	30	GLU	2.7
53	BX	93	GLU	2.7
2	CB	208	ILE	2.6
3	AC	52	LEU	2.7
10	CJ	16	LEU	2.7
13	CM	66	LEU	2.7
2	AB	122	PHE	2.6
7	AG	137	LYS	2.6
18	AR	19	LYS	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
27	B2	57	ILE	2.6
28	D3	10	LYS	2.6
29	B4	31	ILE	2.6
48	DS	53	SER	2.7
53	DX	66	LEU	2.7
55	DZ	142	SER	2.7
2	AB	218	ALA	2.6
36	BC	78	ALA	2.6
36	BC	170	ALA	2.6
36	DC	163	PHE	2.6
37	BD	272	ALA	2.6
45	BP	127	ALA	2.6
45	DP	51	PHE	2.6
54	BY	48	ALA	2.6
1	CA	1133	G	2.6
16	CP	1	MET	2.6
34	BA	2125	G	2.6
34	DA	1042	G	2.6
34	DA	2127	G	2.6
3	AC	193	TYR	2.6
54	BY	55	TYR	2.6
16	CP	26	ARG	2.6
34	DA	288	C	2.6
2	CB	234	PRO	2.6
9	AI	6	GLY	2.6
36	DC	124	GLY	2.6
50	DU	118	GLY	2.6
31	B6	47	THR	2.6
1	CA	90	U	2.6
3	CC	86	VAL	2.6
6	AF	24	GLU	2.6
7	AG	90	GLU	2.6
8	CH	136	GLU	2.6
10	AJ	73	ASP	2.6
14	AN	6	LEU	2.6
17	CQ	58	GLU	2.6
18	CR	88	LYS	2.6
19	CS	20	LEU	2.6
26	D1	75	GLU	2.6
33	B8	15	LYS	2.6
36	BC	84	LYS	2.6
42	BI	22	LYS	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	BI	81	VAL	2.6
44	BO	67	LYS	2.6
45	DP	86	LYS	2.6
46	BQ	37	LEU	2.6
47	DR	115	GLU	2.6
49	DT	109	GLU	2.6
52	BW	2	GLU	2.6
55	DZ	163	LEU	2.6
55	DZ	169	GLU	2.6
1	CA	1176	A	2.6
36	DC	83	ILE	2.6
2	AB	48	MET	2.6
2	CB	163	PHE	2.6
10	CJ	54	PHE	2.6
25	B0	2	ALA	2.6
36	DC	86	ALA	2.6
41	DH	146	ALA	2.6
45	BP	141	ALA	2.6
54	DY	17	SER	2.6
29	B4	40	HIS	2.6
41	DH	65	HIS	2.6
1	CA	1304	G	2.6
2	CB	157	ARG	2.6
4	AD	50	ARG	2.6
6	AF	47	ARG	2.6
8	AH	102	ARG	2.6
9	CI	4	TYR	2.6
25	D0	11	ARG	2.6
34	BA	1047	G	2.6
34	DA	2110	G	2.6
43	DN	12	ARG	2.6
48	BS	89	ARG	2.6
51	BV	91	TYR	2.6
11	CK	86	GLY	2.6
20	CT	98	PRO	2.6
38	DE	74	PRO	2.6
38	DE	88	GLY	2.6
54	DY	56	PRO	2.6
55	DZ	177	PRO	2.6
7	CG	70	LYS	2.6
10	CJ	69	ASN	2.6
14	AN	50	LYS	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
20	CT	74	LYS	2.6
21	AU	26	LYS	2.6
2	CB	224	GLN	2.6
2	CB	230	VAL	2.6
3	CC	76	VAL	2.6
10	CJ	90	LEU	2.6
15	CO	11	VAL	2.6
17	CQ	74	LEU	2.6
27	D2	31	GLU	2.6
29	D4	50	VAL	2.6
34	BA	154(A)	C	2.6
34	BA	1179	C	2.6
34	BA	2794	C	2.6
34	DA	2107	C	2.6
39	BF	29	ASN	2.6
54	BY	101	LYS	2.6
17	AQ	78	GLU	2.6
49	BT	34	VAL	2.6
19	CS	49	ILE	2.6
40	BG	52	ILE	2.6
1	CA	723	U	2.6
1	CA	1150	U	2.6
3	AC	62	ASP	2.6
30	B5	38	ALA	2.6
34	BA	1590	U	2.6
39	BF	177	ALA	2.6
51	BV	55	ALA	2.6
1	AA	1130	A	2.6
4	CD	152	SER	2.6
34	DA	2062	A	2.6
49	DT	106	SER	2.6
54	BY	17	SER	2.6
17	AQ	91	ARG	2.6
19	CS	29	ARG	2.6
19	CS	78	ARG	2.6
47	DR	33	ARG	2.6
55	DZ	20	ARG	2.6
28	B3	2	PRO	2.6
36	BC	143	GLY	2.6
44	BO	15	GLY	2.6
45	DP	34	GLY	2.6
51	BV	86	GLY	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
31	D6	27	LYS	2.6
37	DD	78	LYS	2.6
38	DE	57	LYS	2.6
51	BV	6	LYS	2.6
1	AA	1033	G	2.6
1	AA	1034	G	2.6
1	CA	1164	G	2.6
21	AU	8	THR	2.6
2	CB	50	GLU	2.6
3	AC	39	ILE	2.6
23	CW	57	G	2.6
34	BA	171	G	2.6
34	BA	1051	G	2.6
34	BA	2795	G	2.6
48	DS	46	VAL	2.6
51	DV	72	VAL	2.6
54	BY	85	VAL	2.6
4	CD	179	GLU	2.6
5	CE	65	ASN	2.6
9	AI	38	GLN	2.6
16	AP	83	GLU	2.6
38	BE	179	GLU	2.6
45	DP	149	GLU	2.6
50	BU	37	GLU	2.6
7	CG	152	ALA	2.6
9	AI	59	PHE	2.6
36	DC	204	ALA	2.6
40	BG	80	PHE	2.6
10	CJ	73	ASP	2.6
40	DG	50	ALA	2.6
46	DQ	138	ASP	2.6
49	DT	138	ALA	2.6
35	BB	5	C	2.6
35	BB	84	C	2.6
35	DB	49	C	2.6
1	CA	1086	U	2.6
7	AG	77	SER	2.6
20	AT	82	SER	2.6
51	BV	64	HIS	2.6
15	AO	17	ARG	2.6
25	D0	77	ARG	2.6
31	D6	44	ARG	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
40	BG	72	ARG	2.6
41	BH	51	ARG	2.6
34	BA	2126	A	2.6
34	DA	2169	A	2.6
17	AQ	37	LYS	2.6
21	AU	19	GLY	2.6
51	DV	67	GLY	2.6
2	AB	10	LEU	2.6
2	AB	44	LEU	2.6
8	CH	119	LEU	2.6
18	CR	85	LEU	2.6
13	CM	53	VAL	2.6
15	CO	87	ILE	2.6
16	AP	45	THR	2.6
29	D4	31	ILE	2.6
30	B5	57	VAL	2.6
33	B8	41	ILE	2.6
36	DC	77	ILE	2.6
43	DN	71	ILE	2.6
2	AB	134	GLU	2.6
2	AB	240	GLN	2.6
3	CC	28	GLN	2.6
4	AD	81	GLU	2.6
12	CL	127	GLU	2.6
15	AO	73	GLU	2.6
27	D2	56	GLN	2.6
39	DF	190	GLU	2.6
40	DG	59	GLU	2.6
42	DI	70	GLU	2.6
42	DI	73	GLU	2.6
48	DS	64	GLU	2.6
49	DT	11	GLU	2.6
10	CJ	27	ALA	2.6
39	BF	22	ALA	2.6
39	DF	202	PHE	2.6
50	DU	75	ASN	2.6
1	AA	1030(A)	G	2.5
1	CA	64	G	2.5
1	CA	78	G	2.5
1	CA	1142	G	2.5
36	BC	38	ASP	2.6
49	DT	124	ASP	2.6

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	AC	140	ARG	2.5
4	AD	3	ARG	2.5
5	CE	18	ARG	2.5
19	AS	29	ARG	2.5
34	BA	157	U	2.5
34	BA	895	U	2.5
46	BQ	10	ARG	2.5
49	DT	125	ARG	2.5
1	AA	1027	C	2.5
1	CA	1282	C	2.5
34	DA	2474	C	2.5
3	CC	175	LEU	2.5
4	CD	87	GLY	2.5
19	CS	59	PRO	2.5
36	DC	90	GLY	2.5
36	DC	219	GLY	2.5
42	DI	8	PRO	2.5
51	BV	8	GLY	2.5
51	BV	38	LEU	2.5
51	DV	18	LEU	2.5
55	DZ	3	TYR	2.5
41	BH	26	VAL	2.5
41	BH	89	ILE	2.5
42	DI	79	ILE	2.5
54	DY	45	VAL	2.5
10	CJ	25	GLU	2.5
3	CC	128	PHE	2.5
5	CE	38	GLN	2.5
18	CR	38	GLU	2.5
19	CS	73	GLU	2.5
31	D6	23	THR	2.5
36	BC	155	GLU	2.5
39	DF	200	GLU	2.5
42	DI	104	GLN	2.5
45	BP	81	GLN	2.5
46	BQ	38	GLU	2.5
55	BZ	13	GLU	2.5
55	DZ	11	GLU	2.5
5	AE	94	ALA	2.5
9	AI	43	ALA	2.5
25	D0	69	PHE	2.5
39	DF	80	ALA	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
42	DI	146	ALA	2.5
45	DP	150	ALA	2.5
10	AJ	69	ASN	2.5
36	DC	139	ASN	2.5
52	DW	60	ASN	2.5
4	AD	187	ARG	2.5
2	CB	19	HIS	2.5
4	CD	190	ASP	2.5
7	AG	20	ASP	2.5
39	BF	18	ARG	2.5
44	DO	17	ARG	2.5
46	DQ	82	ARG	2.5
46	DQ	133	ARG	2.5
55	DZ	82	ARG	2.5
28	D3	17	LYS	2.5
31	D6	45	LYS	2.5
34	DA	2585	U	2.5
41	DH	84	SER	2.5
45	BP	39	LYS	2.5
45	BP	108	LYS	2.5
50	DU	93	LYS	2.5
51	DV	74	LYS	2.5
54	BY	19	LYS	2.5
1	CA	1139	G	2.5
34	BA	892	G	2.5
35	DB	119	G	2.5
1	CA	1119	C	2.5
1	CA	1149	C	2.5
1	CA	1259	C	2.5
51	BV	16	PRO	2.5
8	CH	130	GLY	2.5
9	AI	57	GLY	2.5
14	AN	61	TRP	2.5
36	BC	159	GLY	2.5
38	BE	65	GLY	2.5
43	BN	42	TRP	2.5
54	DY	59	GLY	2.5
9	AI	109	VAL	2.5
36	DC	94	VAL	2.5
34	BA	2801(A)	A	2.5
34	DA	2662	A	2.5
2	AB	116	GLU	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
17	CQ	78	GLU	2.5
26	B1	34	THR	2.5
31	B6	51	GLU	2.5
40	DG	54	GLU	2.5
27	D2	38	GLN	2.5
43	DN	8	GLN	2.5
53	DX	82	GLN	2.5
7	CG	7	ALA	2.5
39	DF	22	ALA	2.5
9	CI	121	ARG	2.5
38	BE	82	ARG	2.5
48	DS	16	ASN	2.5
55	DZ	31	ARG	2.5
21	CU	5	ASP	2.5
25	B0	49	LYS	2.5
26	B1	81	LYS	2.5
1	AA	1025	U	2.5
35	BB	1	U	2.5
41	BH	134	SER	2.5
49	BT	67	SER	2.5
36	BC	140	PRO	2.5
42	DI	12	LEU	2.5
42	DI	101	LEU	2.5
53	BX	92	LEU	2.5
55	DZ	68	PRO	2.5
2	CB	200	ILE	2.5
3	CC	96	GLY	2.5
9	AI	74	ILE	2.5
13	AM	100	GLY	2.5
18	CR	48	GLY	2.5
36	BC	135	GLY	2.5
36	BC	203	GLY	2.5
51	DV	65	GLY	2.5
41	DH	43	VAL	2.5
41	DH	115	VAL	2.5
1	AA	1008	C	2.5
1	AA	1001(A)	G	2.5
1	AA	1127	G	2.5
1	AA	1190	G	2.5
1	CA	1024	G	2.5
1	CA	1178	G	2.5
23	AW	44	G	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
23	CW	44	G	2.5
34	DA	2106	G	2.5
48	DS	92	TYR	2.5
7	CG	67	GLU	2.5
8	AH	22	GLU	2.5
36	DC	192	PHE	2.5
39	BF	27	GLU	2.5
41	DH	86	GLU	2.5
3	AC	180	ALA	2.5
4	CD	201	GLN	2.5
7	CG	2	ALA	2.5
20	CT	90	GLN	2.5
46	DQ	104	PHE	2.5
31	B6	22	ALA	2.5
41	BH	73	ALA	2.5
49	DT	130	ALA	2.5
1	AA	1256	A	2.5
2	CB	56	ARG	2.5
15	AO	79	ARG	2.5
16	CP	81	ARG	2.5
31	B6	50	ARG	2.5
48	DS	106	ARG	2.5
3	CC	98	ASN	2.5
12	AL	13	LYS	2.5
30	D5	3	LYS	2.5
31	D6	16	CYS	2.5
33	D8	15	LYS	2.5
46	BQ	18	LYS	2.5
49	DT	8	LYS	2.5
53	DX	33	LYS	2.5
2	CB	79	ASP	2.5
2	CB	220	ASP	2.5
38	BE	18	ASP	2.5
46	DQ	25	ASP	2.5
9	AI	21	PRO	2.5
9	CI	71	SER	2.5
10	AJ	77	PRO	2.5
10	AJ	91	PRO	2.5
11	CK	53	SER	2.5
13	CM	39	ILE	2.5
17	CQ	80	GLY	2.5
34	BA	1175	U	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	BA	2796	U	2.5
34	DA	271(N)	U	2.5
34	DA	614(A)	U	2.5
34	DA	2506	U	2.5
36	DC	224	ILE	2.5
38	BE	77	ILE	2.5
38	DE	77	ILE	2.5
41	BH	22	GLY	2.5
41	BH	78	GLY	2.5
51	DV	54	GLY	2.5
9	AI	14	VAL	2.5
45	DP	95	VAL	2.5
39	BF	142	TRP	2.5
2	AB	231	GLU	2.5
3	CC	90	GLU	2.5
6	CF	95	GLU	2.5
7	CG	62	PHE	2.5
25	D0	68	GLU	2.5
27	D2	34	GLU	2.5
41	BH	58	GLU	2.5
3	AC	179	ARG	2.5
7	AG	7	ALA	2.5
9	AI	76	ALA	2.5
19	CS	39	THR	2.5
20	CT	95	ALA	2.5
26	B1	20	ARG	2.5
36	BC	76	ALA	2.5
36	BC	186	ALA	2.5
36	DC	56	GLN	2.5
37	BD	263	ARG	2.5
37	DD	244	ARG	2.5
37	DD	27	THR	2.5
39	BF	21	ALA	2.5
41	BH	143	GLN	2.5
47	DR	88	ARG	2.5
49	BT	94	ALA	2.5
54	DY	97	ARG	2.5
55	BZ	122	ARG	2.5
1	CA	381	C	2.5
1	CA	1028	C	2.5
34	BA	2163	C	2.5
34	DA	1052	C	2.5

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	DA	1178	C	2.5
35	DB	5	C	2.5
41	DH	122	THR	2.5
53	DX	37	THR	2.5
17	AQ	87	LYS	2.5
40	DG	36	LYS	2.5
45	BP	121	LYS	2.5
34	BA	1591	G	2.5
34	BA	2159	G	2.5
1	AA	994	A	2.5
1	AA	1157	A	2.5
28	D3	46	ASN	2.5
34	BA	1494	A	2.5
34	DA	289	A	2.5
34	DA	1177	A	2.5
2	AB	160	ASP	2.4
4	AD	21	LEU	2.4
36	BC	23	ASP	2.4
42	DI	14	ASP	2.4
42	DI	58	LEU	2.4
52	DW	65	LEU	2.4
55	DZ	117	LEU	2.4
10	CJ	41	PRO	2.4
19	AS	59	PRO	2.4
51	BV	70	ILE	2.4
8	CH	51	VAL	2.4
9	AI	65	VAL	2.4
19	CS	11	VAL	2.4
36	BC	95	GLY	2.4
36	DC	221	SER	2.4
1	AA	1212	U	2.4
1	CA	96	U	2.4
12	CL	59	ARG	2.4
13	AM	35	GLU	2.4
13	CM	80	ARG	2.4
15	CO	6	GLU	2.4
36	BC	85	GLU	2.4
36	BC	151	GLU	2.4
38	DE	200	GLU	2.4
45	DP	90	ARG	2.4
49	DT	129	ARG	2.4
55	DZ	168	GLU	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
10	AJ	7	LYS	2.4
11	AK	78	GLN	2.4
14	AN	30	ALA	2.4
15	CO	69	TYR	2.4
37	BD	116	GLN	2.4
42	DI	55	ALA	2.4
45	DP	139	LYS	2.4
36	DC	61	THR	2.4
10	AJ	56	HIS	2.4
1	AA	840	C	2.4
1	CA	1335	C	2.4
34	BA	1053	C	2.4
34	BA	1147	C	2.4
34	BA	2646	C	2.4
34	DA	285	C	2.4
34	DA	1509	C	2.4
40	BG	130	ASN	2.4
40	DG	108	ASN	2.4
6	CF	98	LEU	2.4
9	AI	85	LEU	2.4
9	CI	96	LEU	2.4
10	CJ	85	LEU	2.4
1	AA	1180	A	2.4
23	CW	36	A	2.4
34	DA	1490	A	2.4
1	CA	1021	G	2.4
19	AS	13	ASP	2.4
34	DA	2166	G	2.4
38	BE	103	ASP	2.4
49	DT	44	ASP	2.4
8	AH	93	VAL	2.4
15	AO	20	GLY	2.4
21	CU	4	GLY	2.4
29	D4	19	GLY	2.4
43	DN	125	GLY	2.4
51	DV	47	VAL	2.4
47	BR	57	ARG	2.4
20	AT	50	GLU	2.4
23	CW	47	U	2.4
34	BA	2401	U	2.4
34	DA	2113	U	2.4
53	BX	77	LYS	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
54	BY	8	LYS	2.4
39	BF	26	ALA	2.4
9	CI	62	TYR	2.4
29	B4	43	TYR	2.4
40	DG	162	THR	2.4
49	BT	40	THR	2.4
51	DV	92	THR	2.4
6	AF	89	MET	2.4
40	DG	60	LEU	2.4
31	B6	26	ASN	2.4
40	DG	114	ILE	2.4
41	BH	72	ILE	2.4
1	AA	1038	C	2.4
1	CA	1116	C	2.4
34	BA	271(Z)	C	2.4
34	DA	271(J)	C	2.4
34	DA	1743	C	2.4
55	BZ	176	PRO	2.4
2	AB	239	VAL	2.4
2	CB	239	VAL	2.4
3	AC	74	GLY	2.4
19	CS	60	VAL	2.4
36	BC	67	GLY	2.4
41	BH	166	GLY	2.4
51	DV	57	VAL	2.4
53	BX	94	GLY	2.4
1	AA	1030(D)	A	2.4
34	BA	2660	A	2.4
2	CB	179	LYS	2.4
10	CJ	80	LYS	2.4
11	CK	71	LYS	2.4
20	AT	87	LYS	2.4
21	CU	22	ARG	2.4
40	DG	72	ARG	2.4
41	BH	23	ARG	2.4
42	DI	95	LYS	2.4
43	BN	118	LYS	2.4
44	BO	49	ARG	2.4
52	BW	68	ARG	2.4
1	AA	1131	G	2.4
4	CD	34	GLU	2.4
9	CI	101	PHE	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
15	CO	7	GLU	2.4
29	D4	23	GLU	2.4
34	BA	1110	G	2.4
34	DA	881	G	2.4
34	DA	2893	G	2.4
10	CJ	26	ALA	2.4
19	CS	50	ALA	2.4
39	DF	128	ALA	2.4
51	DV	55	ALA	2.4
40	BG	41	GLN	2.4
1	CA	1125	U	2.4
34	BA	1113	U	2.4
10	CJ	13	HIS	2.4
19	AS	71	LEU	2.4
54	DY	31	LEU	2.4
2	AB	80	ILE	2.4
36	BC	83	ILE	2.4
41	BH	148	ILE	2.4
3	AC	109	PRO	2.4
45	DP	9	ASN	2.4
3	AC	75	VAL	2.4
13	CM	60	VAL	2.4
3	CC	30	ARG	2.4
4	AD	151	LYS	2.4
26	B1	79	GLY	2.4
36	DC	175	VAL	2.4
38	BE	75	VAL	2.4
40	DG	65	GLY	2.4
41	BH	48	GLY	2.4
41	BH	52	VAL	2.4
41	DH	52	VAL	2.4
41	DH	166	GLY	2.4
42	DI	34	GLY	2.4
47	DR	99	LYS	2.4
48	DS	90	GLY	2.4
48	BS	15	ARG	2.4
49	DT	137	LYS	2.4
50	DU	15	LYS	2.4
50	DU	82	GLY	2.4
5	CE	5	ASP	2.4
9	CI	60	ASP	2.4
18	CR	30	ASP	2.4

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
38	BE	19	ARG	2.4
41	DH	152	ARG	2.4
1	AA	1119	C	2.4
1	CA	748	C	2.4
1	CA	1006	C	2.4
34	BA	1008	C	2.4
34	DA	271(P)	C	2.4
34	DA	1049	C	2.4
3	AC	203	PHE	2.4
34	BA	2629	A	2.4
36	DC	42	GLU	2.4
36	DC	183	GLU	2.4
38	BE	94	GLU	2.4
41	DH	58	GLU	2.4
42	DI	117	GLU	2.4
49	DT	94	ALA	2.4
9	CI	87	GLN	2.4
1	AA	723	U	2.4
1	AA	1030(C)	G	2.4
1	CA	173	U	2.4
1	CA	1030(C)	G	2.4
1	CA	1182	G	2.4
1	CA	1316	G	2.4
3	CC	184	TYR	2.4
20	CT	71	THR	2.4
34	BA	1044	G	2.4
34	BA	1112	G	2.4
34	BA	2127	G	2.4
48	DS	21	THR	2.4
2	CB	98	LEU	2.4
4	AD	19	LEU	2.4
45	BP	62	LEU	2.4
51	DV	62	LEU	2.4
3	CC	8	ILE	2.4
10	CJ	75	ILE	2.4
36	DC	171	ILE	2.4
54	DY	96	ILE	2.4
55	BZ	53	ILE	2.4
43	DN	11	PRO	2.4
45	DP	122	PRO	2.4
5	AE	15	ARG	2.3
8	AH	75	ARG	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
9	AI	41	VAL	2.3
20	CT	27	LYS	2.3
26	D1	92	LYS	2.3
37	DD	4	LYS	2.3
38	DE	59	VAL	2.3
42	BI	95	LYS	2.3
50	DU	101	ARG	2.3
51	BV	37	VAL	2.3
55	BZ	23	LYS	2.3
55	BZ	56	VAL	2.3
9	CI	22	GLY	2.3
4	CD	9	CYS	2.3
38	DE	83	ASP	2.3
52	BW	94	ASP	2.3
2	AB	237	ALA	2.3
4	CD	150	GLU	2.3
28	B3	38	GLU	2.3
36	DC	197	GLU	2.3
37	BD	30	GLU	2.3
39	DF	27	GLU	2.3
40	BG	137	GLU	2.3
44	DO	45	GLU	2.3
47	BR	118	GLU	2.3
50	BU	48	ALA	2.3
34	DA	2128	C	2.3
34	DA	2799	C	2.3
3	CC	49	SER	2.3
11	CK	24	SER	2.3
34	BA	1509(A)	A	2.3
34	DA	2114	A	2.3
15	CO	4	THR	2.3
19	CS	16	LEU	2.3
28	D3	23	LEU	2.3
36	DC	75	LEU	2.3
39	DF	12	LEU	2.3
43	BN	67	LEU	2.3
1	CA	204	U	2.3
22	AV	20	U	2.3
23	CW	39	U	2.3
34	DA	1108	U	2.3
12	CL	23	LYS	2.3
14	CN	14	PRO	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
19	AS	28	LYS	2.3
39	DF	30	PRO	2.3
43	DN	129	PRO	2.3
54	DY	77	PRO	2.3
1	CA	1442(A)	G	2.3
7	AG	21	VAL	2.3
10	AJ	9	ARG	2.3
28	D3	9	VAL	2.3
34	BA	1888	G	2.3
34	BA	2110	G	2.3
34	BA	2207	G	2.3
34	DA	1484	G	2.3
34	DA	2186	G	2.3
36	DC	74	VAL	2.3
41	BH	97	ARG	2.3
49	DT	70	VAL	2.3
51	DV	33	VAL	2.3
51	DV	79	VAL	2.3
54	BY	86	ARG	2.3
2	AB	14	GLY	2.3
3	CC	145	GLY	2.3
5	CE	22	GLY	2.3
7	CG	130	GLY	2.3
46	BQ	19	GLY	2.3
6	CF	101	ALA	2.3
17	AQ	44	ALA	2.3
19	CS	27	GLU	2.3
41	BH	47	GLU	2.3
41	BH	116	GLU	2.3
41	BH	150	ALA	2.3
39	DF	1	MET	2.3
4	CD	21	LEU	2.3
26	D1	82	LEU	2.3
51	BV	40	LEU	2.3
1	AA	1397	C	2.3
1	CA	984	C	2.3
1	CA	1162	C	2.3
20	CT	16	HIS	2.3
9	CI	36	TYR	2.3
17	CQ	95	TYR	2.3
34	BA	2801	A	2.3
10	CJ	22	LYS	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
11	CK	11	LYS	2.3
19	CS	28	LYS	2.3
44	BO	70	LYS	2.3
1	CA	82	U	2.3
5	AE	18	ARG	2.3
5	AE	126	ARG	2.3
8	CH	75	ARG	2.3
11	AK	96	ARG	2.3
25	B0	32	ARG	2.3
25	B0	55	ARG	2.3
34	BA	2506	U	2.3
30	B5	47	PRO	2.3
36	BC	73	ARG	2.3
54	BY	84	ARG	2.3
55	DZ	105	VAL	2.3
47	BR	11	ASN	2.3
1	AA	1032	G	2.3
1	AA	1316	G	2.3
6	AF	101	ALA	2.3
7	CG	46	ALA	2.3
15	AO	76	GLU	2.3
23	CW	28	G	2.3
34	BA	10	G	2.3
34	BA	2124	G	2.3
34	DA	2190	G	2.3
41	DH	96	ALA	2.3
44	DO	68	GLU	2.3
54	DY	48	ALA	2.3
55	BZ	152	ALA	2.3
2	AB	60	ASP	2.3
6	CF	74	ASP	2.3
40	DG	147	ASP	2.3
46	DQ	115	MET	2.3
52	DW	77	ASP	2.3
4	AD	160	GLN	2.3
7	CG	124	LEU	2.3
9	CI	19	LEU	2.3
20	AT	90	GLN	2.3
31	B6	16	CYS	2.3
36	DC	71	GLN	2.3
38	BE	49	LEU	2.3
38	BE	195	LEU	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
45	BP	99	LEU	2.3
8	AH	126	LYS	2.3
13	CM	13	LYS	2.3
27	D2	28	LYS	2.3
30	D5	37	LYS	2.3
31	B6	33	LYS	2.3
33	D8	3	LYS	2.3
41	BH	151	ILE	2.3
43	DN	16	ILE	2.3
48	DS	40	ILE	2.3
38	DE	92	THR	2.3
51	BV	49	THR	2.3
2	CB	53	ARG	2.3
7	AG	154	TYR	2.3
12	AL	19	ARG	2.3
15	CO	79	ARG	2.3
25	B0	82	ARG	2.3
40	DG	115	ARG	2.3
44	BO	78	ARG	2.3
2	AB	125	PRO	2.3
23	AW	56	C	2.3
34	BA	405	U	2.3
34	BA	1111	A	2.3
34	BA	1116	C	2.3
34	BA	1528(A)	A	2.3
34	BA	2130	U	2.3
34	BA	2602	A	2.3
34	DA	280	C	2.3
36	BC	214	VAL	2.3
1	AA	96	U	2.3
34	DA	1739	U	2.3
7	CG	55	GLY	2.3
9	CI	100	GLY	2.3
12	AL	95	GLY	2.3
41	BH	66	GLY	2.3
41	BH	161	GLY	2.3
7	CG	26	PHE	2.3
36	DC	78	ALA	2.3
51	BV	98	GLU	2.3
2	CB	215	LEU	2.3
3	AC	91	LEU	2.3
4	CD	144	ASP	2.3

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
8	CH	121	ASP	2.3
17	CQ	98	LEU	2.3
38	BE	54	GLN	2.3
43	BN	41	ASP	2.3
52	DW	22	ASP	2.3
54	DY	11	ASP	2.3
7	AG	60	LYS	2.3
28	B3	49	LYS	2.3
37	DD	38	LYS	2.3
37	DD	255	LYS	2.3
41	BH	13	LYS	2.3
44	BO	53	LYS	2.3
45	DP	39	LYS	2.3
1	AA	1144	G	2.3
34	BA	363	G	2.3
34	BA	2166	G	2.3
34	DA	2631	G	2.3
34	DA	2805	G	2.3
38	DE	132	HIS	2.3
2	CB	36	ARG	2.3
9	CI	93	ARG	2.3
37	DD	263	ARG	2.3
39	DF	172	TRP	2.3
48	DS	23	ARG	2.3
49	DT	111	ARG	2.3
53	DX	35	THR	2.3
9	CI	88	TYR	2.3
9	CI	92	TYR	2.3
21	CU	21	TYR	2.3
9	CI	65	VAL	2.3
51	BV	61	VAL	2.3
54	DY	27	VAL	2.3
55	BZ	68	PRO	2.3
55	DZ	90	VAL	2.3
10	AJ	31	GLY	2.3
39	DF	71	GLY	2.3
49	DT	56	GLY	2.3
1	AA	202	U	2.3
23	AW	20	U	2.3
34	DA	2808	U	2.3
1	AA	999	C	2.2
34	BA	894	C	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
2	CB	9	GLU	2.2
3	AC	166	GLU	2.2
7	CG	52	GLU	2.2
36	BC	89	ALA	2.2
45	DP	89	ALA	2.2
49	DT	58	ASN	2.2
55	BZ	132	ASN	2.2
3	CC	94	LEU	2.2
7	CG	59	LEU	2.2
33	B8	32	LEU	2.2
40	DG	34	LEU	2.2
2	CB	8	LYS	2.2
2	CB	46	LYS	2.2
9	AI	25	LYS	2.2
15	AO	13	GLN	2.2
15	AO	48	LYS	2.2
4	AD	134	ASP	2.2
40	DG	150	ASP	2.2
27	B2	41	ILE	2.2
36	DC	161	ILE	2.2
41	DH	121	ILE	2.2
46	BQ	64	ILE	2.2
3	AC	132	ARG	2.2
11	AK	12	ARG	2.2
39	BF	205	ARG	2.2
47	DR	86	ARG	2.2
30	B5	49	CYS	2.2
36	BC	40	THR	2.2
38	BE	72	VAL	2.2
38	DE	30	PRO	2.2
55	BZ	170	THR	2.2
13	CM	117	VAL	2.2
30	D5	45	VAL	2.2
54	BY	98	VAL	2.2
1	CA	69	G	2.2
1	CA	851	G	2.2
1	CA	1127	G	2.2
1	CA	1442	G	2.2
23	AW	53	G	2.2
23	CW	53	G	2.2
34	BA	642	G	2.2
34	BA	1170	G	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	BA	2104	G	2.2
34	DA	2792	G	2.2
26	B1	84	GLY	2.2
38	BE	67	PHE	2.2
55	DZ	98	MET	2.2
22	CV	20	U	2.2
2	CB	218	ALA	2.2
4	AD	145	GLU	2.2
1	AA	1006	C	2.2
1	AA	1019	C	2.2
1	AA	1442(B)	A	2.2
1	CA	1110	A	2.2
5	AE	110	LEU	2.2
12	CL	52	LEU	2.2
30	B5	35	GLU	2.2
30	B5	48	GLU	2.2
36	BC	75	LEU	2.2
39	BF	145	GLU	2.2
1	CA	1132	C	2.2
12	CL	91	LYS	2.2
15	CO	47	LYS	2.2
18	CR	36	ASN	2.2
28	D3	24	LYS	2.2
29	B4	38	LYS	2.2
34	DA	1530	C	2.2
50	BU	75	ASN	2.2
9	CI	38	GLN	2.2
46	BQ	66	ILE	2.2
3	AC	126	ARG	2.2
3	CC	79	ARG	2.2
4	CD	76	ARG	2.2
6	CF	46	ARG	2.2
7	CG	3	ARG	2.2
33	D8	57	ARG	2.2
36	BC	52	ARG	2.2
37	DD	176	ARG	2.2
46	BQ	57	HIS	2.2
54	DY	86	ARG	2.2
13	AM	45	VAL	2.2
36	DC	181	PRO	2.2
41	BH	19	VAL	2.2
46	DQ	81	VAL	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
49	DT	20	PRO	2.2
55	DZ	83	PRO	2.2
20	CT	11	SER	2.2
5	CE	154	GLY	2.2
9	AI	8	GLY	2.2
44	BO	50	GLY	2.2
2	CB	70	PHE	2.2
2	CB	105	PHE	2.2
1	AA	1181	G	2.2
4	AD	200	GLU	2.2
5	AE	7	GLU	2.2
7	AG	67	GLU	2.2
7	CG	150	ALA	2.2
8	AH	123	GLU	2.2
19	CS	24	ALA	2.2
34	BA	1740	G	2.2
34	DA	1170	G	2.2
34	DA	2168	G	2.2
34	DA	2630	G	2.2
35	DB	50	G	2.2
36	BC	91	ALA	2.2
42	DI	22	LYS	2.2
48	BS	19	LYS	2.2
34	BA	881	G	2.2
41	BH	167	GLU	2.2
50	DU	60	LEU	2.2
1	AA	1040	U	2.2
34	DA	157	U	2.2
34	DA	362	U	2.2
42	BI	11	ASN	2.2
3	AC	85	ARG	2.2
13	CM	3	ARG	2.2
17	CQ	70	ARG	2.2
26	D1	18	ILE	2.2
49	DT	115	ARG	2.2
1	CA	632	A	2.2
34	BA	1490	A	2.2
34	DA	1509(A)	A	2.2
1	AA	1389	C	2.2
1	CA	840	C	2.2
34	BA	172	C	2.2
34	BA	898	C	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
34	BA	1043	C	2.2
55	BZ	55	HIS	2.2
36	DC	187	ASP	2.2
37	BD	122	ASP	2.2
49	BT	26	ASP	2.2
7	AG	75	VAL	2.2
7	CG	93	PRO	2.2
9	AI	26	VAL	2.2
32	B7	46	VAL	2.2
41	BH	128	PRO	2.2
51	BV	57	VAL	2.2
55	BZ	165	VAL	2.2
45	DP	30	THR	2.2
53	BX	27	THR	2.2
12	CL	63	GLY	2.2
19	CS	26	GLY	2.2
41	BH	163	TYR	2.2
43	BN	78	TYR	2.2
49	DT	37	GLY	2.2
55	BZ	66	SER	2.2
55	BZ	142	SER	2.2
5	CE	47	LYS	2.2
8	CH	31	PHE	2.2
31	B6	45	LYS	2.2
36	BC	70	LYS	2.2
43	DN	83	LYS	2.2
9	CI	50	LEU	2.2
6	CF	24	GLU	2.2
7	AG	2	ALA	2.2
8	CH	22	GLU	2.2
9	AI	45	ALA	2.2
36	BC	142	ALA	2.2
45	BP	120	ALA	2.2
49	BT	127	ALA	2.2
55	DZ	138	GLU	2.2
4	AD	115	ARG	2.2
9	AI	81	ILE	2.2
10	AJ	75	ILE	2.2
18	CR	53	ARG	2.2
26	B1	58	ILE	2.2
16	AP	65	GLN	2.2
22	AV	47	U	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
32	B7	23	ARG	2.2
39	DF	72	ARG	2.2
40	DG	181	ARG	2.2
50	BU	80	ILE	2.2
7	AG	148	ASN	2.2
25	B0	12	ASN	2.2
37	DD	126	GLN	2.2
55	BZ	50	GLN	2.2
1	CA	158	G	2.2
23	AW	46	G	2.2
23	CW	27	G	2.2
34	BA	315	G	2.2
34	DA	100	G	2.2
1	CA	1092	A	2.2
36	DC	220	PRO	2.2
39	DF	132	VAL	2.2
40	DG	49	ASP	2.2
54	BY	37	VAL	2.2
1	AA	1007	C	2.2
1	AA	1141	C	2.2
7	CG	144	MET	2.2
34	BA	2803	C	2.2
34	DA	2896	C	2.2
10	CJ	48	THR	2.2
51	DV	7	THR	2.2
2	CB	99	GLY	2.2
9	AI	97	LYS	2.2
14	AN	58	LYS	2.2
20	AT	38	LYS	2.2
30	B5	37	LYS	2.2
39	BF	71	GLY	2.2
41	BH	56	SER	2.2
49	BT	22	PHE	2.2
42	BI	128	LEU	2.2
3	CC	166	GLU	2.2
7	AG	152	ALA	2.2
12	AL	129	ALA	2.2
40	BG	13	GLU	2.2
42	DI	10	GLU	2.2
46	BQ	107	ALA	2.2
52	DW	2	GLU	2.2
53	DX	23	GLU	2.2

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
13	AM	11	ARG	2.1
17	CQ	65	ILE	2.1
28	B3	29	ARG	2.1
36	BC	77	ILE	2.1
41	BH	130	ARG	2.1
49	DT	3	ARG	2.1
51	BV	66	ARG	2.1
1	CA	1121	U	2.1
11	AK	26	ASN	2.1
34	BA	504	U	2.1
34	DA	2130	U	2.1
34	DA	2296	U	2.1
34	DA	2897	U	2.1
40	BG	27	ASN	2.1
14	AN	18	VAL	2.1
36	DC	222	VAL	2.1
38	BE	30	PRO	2.1
41	DH	125	VAL	2.1
43	DN	6	PRO	2.1
43	DN	79	PRO	2.1
54	DY	98	VAL	2.1
10	CJ	12	ASP	2.1
37	DD	171	ASP	2.1
3	AC	72	LYS	2.1
1	AA	161	A	2.1
1	CA	1134	G	2.1
1	CA	1151	A	2.1
1	CA	1274	G	2.1
1	CA	1291	G	2.1
23	CW	7	A	2.1
34	BA	1107	G	2.1
34	BA	2114	A	2.1
34	BA	2833	G	2.1
36	BC	79	LYS	2.1
34	DA	1452	A	2.1
34	DA	1460	A	2.1
34	DA	1722	A	2.1
36	BC	168	THR	2.1
40	BG	162	THR	2.1
41	BH	140	LYS	2.1
41	DH	30	LYS	2.1
43	BN	43	THR	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
55	BZ	36	LYS	2.1
55	DZ	78	LYS	2.1
43	BN	80	GLY	2.1
2	AB	55	PHE	2.1
2	AB	221	LEU	2.1
18	AR	51	LEU	2.1
20	AT	92	LEU	2.1
49	BT	9	LEU	2.1
3	AC	49	SER	2.1
5	AE	95	ALA	2.1
9	CI	46	ALA	2.1
9	CI	84	ALA	2.1
15	AO	40	SER	2.1
20	CT	97	ALA	2.1
30	D5	12	SER	2.1
36	BC	86	ALA	2.1
39	DF	130	ALA	2.1
41	BH	165	ALA	2.1
45	DP	140	ALA	2.1
48	BS	86	ALA	2.1
55	DZ	172	ALA	2.1
6	AF	95	GLU	2.1
7	CG	76	ARG	2.1
7	CG	79	ARG	2.1
18	CR	83	GLU	2.1
19	AS	36	ARG	2.1
26	D1	93	GLU	2.1
31	D6	50	ARG	2.1
3	CC	202	ILE	2.1
33	D8	41	ILE	2.1
50	DU	17	ILE	2.1
33	D8	43	GLN	2.1
36	BC	71	GLN	2.1
29	B4	20	ASN	2.1
39	DF	29	ASN	2.1
45	DP	146	VAL	2.1
27	B2	33	MET	2.1
38	BE	1	MET	2.1
38	DE	117	MET	2.1
36	DC	18	LYS	2.1
37	BD	255	LYS	2.1
51	DV	69	LYS	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
8	CH	73	ASP	2.1
40	DG	116	ASP	2.1
49	BT	44	ASP	2.1
2	CB	67	THR	2.1
10	AJ	87	THR	2.1
36	BC	216	THR	2.1
39	DF	87	GLY	2.1
48	DS	108	GLY	2.1
3	AC	10	PHE	2.1
9	AI	19	LEU	2.1
38	BE	52	LEU	2.1
39	BF	12	LEU	2.1
43	DN	138	LEU	2.1
49	DT	22	PHE	2.1
51	BV	18	LEU	2.1
52	DW	23	LEU	2.1
1	CA	1261	A	2.1
2	CB	123	ALA	2.1
13	AM	2	ALA	2.1
13	CM	114	ARG	2.1
16	AP	38	TYR	2.1
16	CP	25	ARG	2.1
18	AR	42	ARG	2.1
34	BA	2169	A	2.1
34	DA	2117	A	2.1
38	DE	79	ARG	2.1
42	BI	103	ARG	2.1
45	DP	134	ALA	2.1
47	BR	45	ARG	2.1
49	BT	135	ALA	2.1
49	DT	127	ALA	2.1
1	AA	1160	G	2.1
1	AA	1178	G	2.1
2	AB	170	GLU	2.1
1	CA	934	C	2.1
1	CA	1113	C	2.1
4	AD	26	CYS	2.1
15	AO	6	GLU	2.1
34	BA	360	G	2.1
34	DA	2121	G	2.1
39	BF	179	GLU	2.1
39	DF	35	GLU	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
40	BG	114	ILE	2.1
41	BH	81	GLU	2.1
42	DI	135	GLU	2.1
47	DR	15	SER	2.1
48	BS	40	ILE	2.1
55	DZ	129	SER	2.1
55	DZ	135	GLU	2.1
22	AV	1	C	2.1
34	BA	975	C	2.1
34	DA	2343	C	2.1
3	CC	162	GLN	2.1
19	AS	56	GLN	2.1
3	AC	26	LYS	2.1
4	AD	56	VAL	2.1
10	CJ	14	LYS	2.1
25	D0	12	ASN	2.1
36	BC	141	LYS	2.1
40	DG	84	LYS	2.1
46	BQ	103	MET	2.1
41	DH	36	PRO	2.1
49	BT	65	LYS	2.1
55	DZ	23	LYS	2.1
1	CA	1364	U	2.1
23	AW	55	U	2.1
2	AB	118	LEU	2.1
4	CD	194	LEU	2.1
36	BC	64	LEU	2.1
46	BQ	122	GLY	2.1
49	DT	99	LEU	2.1
2	CB	168	THR	2.1
13	CM	103	THR	2.1
29	D4	44	THR	2.1
36	BC	34	THR	2.1
36	BC	215	THR	2.1
36	DC	40	THR	2.1
42	BI	108	THR	2.1
3	AC	83	ARG	2.1
8	CH	30	ARG	2.1
32	D7	41	ARG	2.1
47	BR	86	ARG	2.1
50	BU	92	ARG	2.1
8	AH	124	ALA	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
38	BE	70	ALA	2.1
46	BQ	49	ALA	2.1
5	CE	155	GLU	2.1
14	CN	46	GLU	2.1
18	AR	38	GLU	2.1
40	BG	59	GLU	2.1
41	BH	18	GLU	2.1
42	BI	60	GLU	2.1
49	DT	134	GLU	2.1
1	AA	1280	A	2.1
1	CA	1279	A	2.1
12	CL	116	SER	2.1
34	BA	878	A	2.1
34	BA	900	A	2.1
34	DA	229	A	2.1
1	AA	347	G	2.1
1	AA	934	C	2.1
1	AA	1017	G	2.1
1	AA	1118	C	2.1
1	AA	1387	G	2.1
1	CA	1118	C	2.1
4	AD	17	VAL	2.1
8	CH	56	LYS	2.1
12	CL	126	LYS	2.1
22	AV	68	C	2.1
34	BA	1592	C	2.1
34	BA	2664	G	2.1
34	DA	363	G	2.1
34	DA	884	C	2.1
34	DA	2161	C	2.1
35	DB	28	C	2.1
36	BC	218	MET	2.1
36	DC	44	HIS	2.1
39	BF	2	LYS	2.1
41	BH	111	HIS	2.1
13	AM	53	VAL	2.1
30	B5	45	VAL	2.1
40	DG	28	VAL	2.1
43	BN	9	VAL	2.1
54	BY	54	LYS	2.1
38	BE	74	PRO	2.1
51	DV	16	PRO	2.1

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
51	DV	90	PRO	2.1
3	CC	32	LEU	2.1
15	CO	34	LEU	2.1
25	B0	84	LEU	2.1
51	BV	71	LEU	2.1
51	DV	71	LEU	2.1
2	CB	122	PHE	2.1
34	BA	2122	U	2.1
34	DA	2401	U	2.1
35	DB	41	U	2.1
36	DC	67	GLY	2.1
36	DC	147	PHE	2.1
55	DZ	48	PHE	2.1
7	CG	140	ASP	2.1
8	AH	121	ASP	2.1
31	B6	14	THR	2.1
40	DG	118	ARG	2.1
41	BH	137	ASP	2.1
42	DI	78	THR	2.1
51	BV	100	ARG	2.1
2	CB	80	ILE	2.1
3	AC	8	ILE	2.1
3	AC	152	ILE	2.1
3	CC	50	ALA	2.1
4	AD	204	ILE	2.1
7	CG	117	ALA	2.1
9	CI	94	ALA	2.1
36	DC	152	ILE	2.1
43	BN	71	ILE	2.1
53	BX	4	ALA	2.1
4	AD	150	GLU	2.1
12	CL	16	GLU	2.1
19	AS	27	GLU	2.1
39	BF	190	GLU	2.1
40	BG	18	GLU	2.1
42	BI	10	GLU	2.1
44	BO	120	GLU	2.1
55	BZ	138	GLU	2.1
40	DG	146	TYR	2.1
55	BZ	9	TYR	2.1
3	CC	45	LYS	2.0
9	AI	71	SER	2.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
3	AC	31	HIS	2.0
6	CF	94	GLN	2.0
7	AG	110	GLN	2.0
17	CQ	14	LYS	2.0
28	D3	7	LYS	2.0
40	DG	26	GLN	2.0
44	BO	66	LYS	2.0
41	BH	61	HIS	2.0
1	CA	1333	A	2.0
2	AB	219	VAL	2.0
3	CC	198	VAL	2.0
34	BA	1148	A	2.0
34	DA	627	A	2.0
50	DU	90	VAL	2.0
55	DZ	139	VAL	2.0
38	DE	39	PRO	2.0
41	BH	21	PRO	2.0
41	DH	168	PRO	2.0
1	CA	1037	C	2.0
2	CB	10	LEU	2.0
5	CE	12	LEU	2.0
13	AM	62	ASN	2.0
22	CV	17	C	2.0
23	CW	61	C	2.0
23	CY	43	C	2.0
34	DA	1118	C	2.0
34	DA	1463	C	2.0
38	DE	55	ASN	2.0
41	BH	87	LEU	2.0
44	DO	122	LEU	2.0
53	BX	95	LEU	2.0
1	AA	93	G	2.0
1	AA	1002	G	2.0
1	AA	1003	G	2.0
1	AA	1276	G	2.0
4	CD	159	ARG	2.0
5	CE	24	ARG	2.0
9	AI	68	GLY	2.0
9	CI	39	GLY	2.0
13	CM	11	ARG	2.0
34	BA	356	G	2.0
34	DA	271(I)	G	2.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
41	DH	93	GLY	2.0
41	DH	108	GLY	2.0
44	DO	100	GLY	2.0
45	BP	102	ARG	2.0
49	DT	108	ARG	2.0
52	DW	8	ARG	2.0
1	AA	1020	U	2.0
2	CB	172	ILE	2.0
10	AJ	42	THR	2.0
13	AM	20	THR	2.0
26	B1	18	ILE	2.0
37	BD	271	ILE	2.0
38	BE	176	ILE	2.0
39	BF	28	ILE	2.0
13	CM	42	ALA	2.0
51	BV	31	ALA	2.0
55	DZ	93	ASP	2.0
2	CB	97	TRP	2.0
2	CB	116	GLU	2.0
5	CE	122	GLU	2.0
13	AM	67	GLU	2.0
19	CS	21	GLU	2.0
26	D1	57	GLU	2.0
45	DP	92	GLU	2.0
51	BV	43	GLU	2.0
2	AB	156	LYS	2.0
2	AB	236	TYR	2.0
25	D0	49	LYS	2.0
38	BE	203	LYS	2.0
42	BI	62	LYS	2.0
42	DI	131	LYS	2.0
43	DN	29	LYS	2.0
45	BP	137	LYS	2.0
46	BQ	8	LYS	2.0
3	CC	139	GLN	2.0
7	AG	92	SER	2.0
10	AJ	84	GLN	2.0
13	CM	54	VAL	2.0
14	AN	32	SER	2.0
42	DI	142	VAL	2.0
55	BZ	54	HIS	2.0
55	BZ	126	VAL	2.0

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<b>Mol</b>	<b>Chain</b>	<b>Res</b>	<b>Type</b>	<b>RSRZ</b>
7	AG	58	PRO	2.0
46	BQ	99	PRO	2.0
55	DZ	159	PRO	2.0
1	AA	162	A	2.0
4	AD	186	LEU	2.0
20	AT	20	LEU	2.0
34	DA	2274	A	2.0
39	BF	24	LEU	2.0
40	DG	111	LEU	2.0
3	AC	79	ARG	2.0
4	CD	132	ARG	2.0
17	AQ	92	ARG	2.0
19	AS	65	ASN	2.0
19	CS	23	ASN	2.0
41	DH	97	ARG	2.0
43	DN	45	ASN	2.0
55	BZ	80	ARG	2.0
55	DZ	30	ASN	2.0
38	BE	106	GLY	2.0
45	DP	43	GLY	2.0
34	BA	271(B)	C	2.0
34	BA	2185	C	2.0
34	DA	2175	C	2.0
39	DF	28	ILE	2.0
39	DF	206	ILE	2.0
3	CC	100	ALA	2.0
7	CG	39	ALA	2.0
38	BE	92	THR	2.0
1	AA	1042	G	2.0
1	CA	142	G	2.0
2	AB	8	LYS	2.0
3	AC	27	LYS	2.0
3	AC	125	GLU	2.0
8	AH	25	ASP	2.0
11	AK	11	LYS	2.0
12	AL	21	LYS	2.0
12	CL	65	GLU	2.0
30	D5	17	ASP	2.0
34	DA	271(E)	U	2.0
36	DC	23	ASP	2.0
37	BD	38	LYS	2.0
39	DF	135	LYS	2.0

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Mol	Chain	Res	Type	RSRZ
41	DH	47	GLU	2.0
44	DO	80	ASP	2.0
5	CE	9	LYS	2.0
7	CG	63	LYS	2.0
23	CW	19	G	2.0
43	DN	84	LYS	2.0
51	DV	28	GLU	2.0
53	BX	33	LYS	2.0
54	BY	88	LYS	2.0
55	BZ	97	GLU	2.0
55	DZ	127	LYS	2.0
16	CP	59	TRP	2.0
36	DC	213	TYR	2.0
55	BZ	38	TYR	2.0
28	D3	50	VAL	2.0
41	BH	113	VAL	2.0
42	DI	81	VAL	2.0
49	DT	34	VAL	2.0

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

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 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
22	5MU	AV	54	21/22	0.84	0.13	75,83,108,108	0
22	5MU	CV	54	21/22	0.89	0.10	64,75,79,79	0

## 5.3 Carbohydrates [i](#)

There are no oligosaccharides in this entry.

## 5.4 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( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3255	1/1	0.35	0.52	92,92,92,92	0
56	MG	AA	1633	1/1	0.41	0.37	90,90,90,90	0
56	MG	DA	3213	1/1	0.43	0.47	84,84,84,84	0
56	MG	DA	3261	1/1	0.55	0.61	94,94,94,94	0
56	MG	CA	1685	1/1	0.57	0.85	82,82,82,82	0
56	MG	DA	3275	1/1	0.63	0.53	75,75,75,75	0
56	MG	CA	1742	1/1	0.66	0.25	76,76,76,76	0
56	MG	BA	3296	1/1	0.68	0.30	75,75,75,75	0
56	MG	CA	1695	1/1	0.69	0.21	70,70,70,70	0
56	MG	BB	201	1/1	0.69	0.32	54,54,54,54	1
56	MG	DA	3330	1/1	0.69	0.26	81,81,81,81	0
56	MG	BA	3285	1/1	0.70	0.39	74,74,74,74	0
56	MG	CA	1673	1/1	0.70	0.43	80,80,80,80	1
56	MG	DB	202	1/1	0.70	0.12	57,57,57,57	0
56	MG	CA	1719	1/1	0.71	0.62	99,99,99,99	0
56	MG	BA	3376	1/1	0.71	0.22	47,47,47,47	0
56	MG	BB	213	1/1	0.72	0.21	71,71,71,71	0
56	MG	AA	1697	1/1	0.72	0.59	88,88,88,88	0
56	MG	DA	3217	1/1	0.73	0.24	62,62,62,62	0
56	MG	DA	3328	1/1	0.74	0.09	27,27,27,27	0
56	MG	CX	102	1/1	0.74	0.42	75,75,75,75	0
56	MG	CA	1697	1/1	0.74	0.32	49,49,49,49	0
56	MG	BB	205	1/1	0.75	0.38	35,35,35,35	1
56	MG	DA	3168	1/1	0.75	0.38	56,56,56,56	0
56	MG	BA	3233	1/1	0.75	0.24	77,77,77,77	0
56	MG	BA	3254	1/1	0.75	0.20	48,48,48,48	0
56	MG	BA	3214	1/1	0.75	0.31	44,44,44,44	0
56	MG	CA	1646	1/1	0.76	0.24	62,62,62,62	0
56	MG	CA	1758	1/1	0.76	0.12	44,44,44,44	0
56	MG	BA	3349	1/1	0.76	0.18	28,28,28,28	1
56	MG	CA	1706	1/1	0.77	0.18	54,54,54,54	0
56	MG	BA	3428	1/1	0.77	0.43	72,72,72,72	1
56	MG	CA	1725	1/1	0.77	0.19	56,56,56,56	0
56	MG	BA	3433	1/1	0.77	0.24	74,74,74,74	0
56	MG	AA	1782	1/1	0.77	0.20	68,68,68,68	0
56	MG	CW	107	1/1	0.77	0.13	63,63,63,63	1
56	MG	AW	113	1/1	0.77	0.15	46,46,46,46	1
56	MG	AA	1665	1/1	0.77	0.13	27,27,27,27	0
56	MG	BA	3413	1/1	0.78	0.22	63,63,63,63	0
56	MG	DA	3219	1/1	0.78	0.43	75,75,75,75	0
56	MG	CA	1722	1/1	0.78	0.36	70,70,70,70	0
56	MG	AA	1620	1/1	0.78	0.19	28,28,28,28	0
56	MG	DA	3137	1/1	0.78	0.29	62,62,62,62	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3155	1/1	0.78	0.16	50,50,50,50	0
56	MG	CA	1734	1/1	0.78	0.11	59,59,59,59	0
56	MG	AA	1791	1/1	0.78	0.13	22,22,22,22	1
56	MG	DA	3310	1/1	0.79	0.10	50,50,50,50	0
56	MG	DA	3320	1/1	0.79	0.32	70,70,70,70	0
56	MG	BA	3408	1/1	0.79	0.07	46,46,46,46	0
56	MG	BA	3419	1/1	0.79	0.11	39,39,39,39	0
56	MG	DA	3334	1/1	0.79	0.14	34,34,34,34	1
56	MG	DA	3342	1/1	0.79	0.20	49,49,49,49	0
56	MG	CA	1752	1/1	0.79	0.26	83,83,83,83	0
56	MG	DA	3333	1/1	0.80	0.31	67,67,67,67	0
56	MG	AA	1745	1/1	0.80	0.17	56,56,56,56	0
56	MG	DA	3248	1/1	0.80	0.45	82,82,82,82	0
56	MG	BB	203	1/1	0.80	0.11	52,52,52,52	0
56	MG	DB	204	1/1	0.80	0.14	48,48,48,48	0
56	MG	BA	3278	1/1	0.81	0.29	90,90,90,90	0
56	MG	BA	3154	1/1	0.81	0.08	28,28,28,28	1
56	MG	CA	1763	1/1	0.81	0.18	32,32,32,32	0
56	MG	DA	3250	1/1	0.81	0.15	57,57,57,57	0
56	MG	CW	104	1/1	0.81	0.18	46,46,46,46	0
56	MG	DA	3258	1/1	0.81	0.57	80,80,80,80	0
56	MG	AA	1750	1/1	0.81	0.18	57,57,57,57	0
56	MG	CA	1622	1/1	0.81	0.15	123,123,123,123	0
56	MG	AA	1808	1/1	0.81	0.12	33,33,33,33	0
56	MG	CA	1665	1/1	0.81	0.46	71,71,71,71	0
56	MG	BA	3375	1/1	0.81	0.21	42,42,42,42	1
56	MG	DA	3173	1/1	0.81	0.19	41,41,41,41	0
56	MG	DA	3187	1/1	0.81	0.46	86,86,86,86	0
56	MG	DA	3191	1/1	0.81	0.18	25,25,25,25	0
56	MG	DA	3203	1/1	0.81	0.18	58,58,58,58	0
56	MG	DA	3208	1/1	0.81	0.15	40,40,40,40	0
56	MG	AA	1648	1/1	0.81	0.28	86,86,86,86	0
56	MG	DB	205	1/1	0.81	0.19	51,51,51,51	0
56	MG	DA	3004	1/1	0.82	0.34	90,90,90,90	0
56	MG	CA	1711	1/1	0.82	0.22	63,63,63,63	0
56	MG	DA	3138	1/1	0.82	0.14	40,40,40,40	0
56	MG	CV	102	1/1	0.82	0.20	56,56,56,56	0
56	MG	DA	3167	1/1	0.82	0.27	101,101,101,101	0
56	MG	CV	103	1/1	0.82	0.22	56,56,56,56	0
56	MG	BA	3395	1/1	0.82	0.27	54,54,54,54	1
56	MG	CA	1637	1/1	0.82	0.56	81,81,81,81	0
56	MG	CW	109	1/1	0.82	0.12	81,81,81,81	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	BA	3300	1/1	0.82	0.10	6,6,6,6	0
56	MG	BA	3323	1/1	0.83	0.13	79,79,79,79	0
56	MG	BA	3016	1/1	0.83	0.28	37,37,37,37	0
56	MG	BA	3258	1/1	0.83	0.23	70,70,70,70	0
56	MG	AA	1688	1/1	0.83	0.15	39,39,39,39	0
56	MG	BA	3157	1/1	0.83	0.32	39,39,39,39	0
56	MG	AA	1733	1/1	0.83	0.31	63,63,63,63	0
56	MG	AA	1738	1/1	0.83	0.23	49,49,49,49	0
56	MG	DA	3274	1/1	0.83	0.18	53,53,53,53	0
56	MG	DA	3163	1/1	0.83	0.29	51,51,51,51	0
56	MG	DA	3277	1/1	0.83	0.20	55,55,55,55	0
56	MG	BA	3158	1/1	0.84	0.26	44,44,44,44	0
56	MG	AA	1661	1/1	0.84	0.24	60,60,60,60	0
56	MG	CX	104	1/1	0.84	0.12	31,31,31,31	1
56	MG	CA	1745	1/1	0.84	0.12	77,77,77,77	0
56	MG	AA	1716	1/1	0.84	0.63	73,73,73,73	0
56	MG	BA	3393	1/1	0.84	0.34	60,60,60,60	0
56	MG	AA	1799	1/1	0.84	0.20	71,71,71,71	0
56	MG	DA	3159	1/1	0.84	0.21	57,57,57,57	0
56	MG	CA	1652	1/1	0.84	0.23	52,52,52,52	0
56	MG	CA	1721	1/1	0.84	0.23	57,57,57,57	0
56	MG	DA	3358	1/1	0.84	0.38	54,54,54,54	0
56	MG	AA	1694	1/1	0.84	0.15	58,58,58,58	0
56	MG	BB	204	1/1	0.84	0.09	42,42,42,42	0
56	MG	DA	3268	1/1	0.84	0.25	51,51,51,51	0
56	MG	AA	1678	1/1	0.85	0.08	43,43,43,43	0
56	MG	BA	3346	1/1	0.85	0.19	60,60,60,60	0
56	MG	BB	212	1/1	0.85	0.07	18,18,18,18	1
56	MG	CA	1696	1/1	0.85	0.18	51,51,51,51	0
56	MG	DA	3122	1/1	0.85	0.30	43,43,43,43	0
56	MG	CA	1751	1/1	0.85	0.22	81,81,81,81	0
56	MG	BA	3415	1/1	0.85	0.18	38,38,38,38	0
56	MG	AE	201	1/1	0.85	0.12	47,47,47,47	0
56	MG	AW	106	1/1	0.85	0.09	26,26,26,26	0
56	MG	CA	1716	1/1	0.85	0.44	67,67,67,67	0
56	MG	BA	3213	1/1	0.85	0.08	19,19,19,19	0
56	MG	AA	1734	1/1	0.85	0.20	48,48,48,48	1
56	MG	AA	1735	1/1	0.85	0.50	84,84,84,84	0
56	MG	DA	3273	1/1	0.85	0.37	59,59,59,59	0
56	MG	AA	1698	1/1	0.86	0.23	38,38,38,38	0
56	MG	AA	1670	1/1	0.86	0.12	52,52,52,52	0
56	MG	DA	3007	1/1	0.86	0.27	39,39,39,39	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AW	120	1/1	0.86	0.08	52,52,52,52	0
56	MG	CA	1729	1/1	0.86	0.33	71,71,71,71	0
56	MG	DA	3270	1/1	0.86	0.13	47,47,47,47	0
56	MG	BA	3259	1/1	0.86	0.07	32,32,32,32	0
56	MG	CA	1739	1/1	0.86	0.28	66,66,66,66	0
56	MG	CA	1647	1/1	0.86	0.24	57,57,57,57	0
56	MG	CA	1744	1/1	0.86	0.14	64,64,64,64	0
56	MG	BA	3412	1/1	0.86	0.13	48,48,48,48	0
56	MG	DA	3312	1/1	0.86	0.11	44,44,44,44	0
56	MG	B2	101	1/1	0.86	0.12	36,36,36,36	0
56	MG	BA	3282	1/1	0.86	0.34	49,49,49,49	0
56	MG	AA	1776	1/1	0.86	0.07	30,30,30,30	0
56	MG	BA	3064	1/1	0.86	0.19	30,30,30,30	0
56	MG	AA	1727	1/1	0.86	0.21	40,40,40,40	0
56	MG	AA	1603	1/1	0.86	0.21	47,47,47,47	0
56	MG	BA	3336	1/1	0.86	0.06	45,45,45,45	0
56	MG	AA	1626	1/1	0.86	0.17	50,50,50,50	0
56	MG	AA	1618	1/1	0.86	0.37	66,66,66,66	0
56	MG	AA	1667	1/1	0.86	0.23	50,50,50,50	0
56	MG	DO	201	1/1	0.86	0.20	67,67,67,67	0
56	MG	CA	1675	1/1	0.87	0.26	57,57,57,57	0
56	MG	BA	3230	1/1	0.87	0.09	36,36,36,36	0
56	MG	BA	3277	1/1	0.87	0.23	38,38,38,38	0
56	MG	CA	1634	1/1	0.87	0.15	17,17,17,17	0
56	MG	DA	3207	1/1	0.87	0.11	8,8,8,8	0
56	MG	B3	101	1/1	0.87	0.35	48,48,48,48	1
56	MG	CA	1644	1/1	0.87	0.14	59,59,59,59	0
56	MG	CA	1750	1/1	0.87	0.13	50,50,50,50	0
56	MG	DA	3218	1/1	0.87	0.13	27,27,27,27	0
56	MG	CA	1710	1/1	0.87	0.10	22,22,22,22	0
56	MG	BA	3279	1/1	0.87	0.16	55,55,55,55	0
56	MG	AW	109	1/1	0.87	0.11	34,34,34,34	1
56	MG	BA	3222	1/1	0.87	0.13	41,41,41,41	0
56	MG	DA	3369	1/1	0.87	0.11	46,46,46,46	0
56	MG	DA	3160	1/1	0.87	0.20	37,37,37,37	0
56	MG	BA	3361	1/1	0.87	0.07	53,53,53,53	0
56	MG	CA	1668	1/1	0.87	0.17	42,42,42,42	0
56	MG	DH	201	1/1	0.87	0.08	36,36,36,36	0
56	MG	BA	3374	1/1	0.87	0.11	48,48,48,48	0
56	MG	BF	302	1/1	0.88	0.12	46,46,46,46	0
56	MG	DA	3149	1/1	0.88	0.64	84,84,84,84	0
56	MG	DA	3151	1/1	0.88	0.11	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	1611	1/1	0.88	0.10	67,67,67,67	0
56	MG	AA	1651	1/1	0.88	0.23	35,35,35,35	0
56	MG	DA	3272	1/1	0.88	0.32	47,47,47,47	0
56	MG	AW	101	1/1	0.88	0.10	35,35,35,35	0
56	MG	BA	3353	1/1	0.88	0.23	42,42,42,42	1
56	MG	CA	1757	1/1	0.88	0.30	56,56,56,56	0
56	MG	CA	1638	1/1	0.88	0.17	42,42,42,42	0
56	MG	CA	1714	1/1	0.88	0.21	81,81,81,81	0
56	MG	B2	103	1/1	0.88	0.14	46,46,46,46	0
56	MG	BA	3429	1/1	0.88	0.15	41,41,41,41	0
56	MG	DA	3193	1/1	0.88	0.18	35,35,35,35	0
56	MG	AA	1792	1/1	0.88	0.23	74,74,74,74	0
56	MG	DA	3206	1/1	0.88	0.08	47,47,47,47	0
56	MG	BA	3299	1/1	0.88	0.14	22,22,22,22	0
56	MG	CA	1723	1/1	0.88	0.42	65,65,65,65	0
56	MG	AA	1742	1/1	0.88	0.29	45,45,45,45	0
56	MG	BA	3221	1/1	0.88	0.30	49,49,49,49	0
56	MG	DA	3381	1/1	0.88	0.20	77,77,77,77	0
56	MG	BA	3332	1/1	0.88	0.19	53,53,53,53	1
56	MG	CA	1737	1/1	0.88	0.15	35,35,35,35	0
56	MG	DA	3240	1/1	0.88	0.21	43,43,43,43	0
56	MG	AA	1737	1/1	0.88	0.15	60,60,60,60	0
56	MG	BA	3345	1/1	0.88	0.07	59,59,59,59	0
56	MG	CA	1760	1/1	0.89	0.13	33,33,33,33	0
56	MG	CA	1762	1/1	0.89	0.18	39,39,39,39	0
56	MG	BA	3335	1/1	0.89	0.07	45,45,45,45	0
56	MG	DA	3209	1/1	0.89	0.24	31,31,31,31	0
56	MG	CA	1780	1/1	0.89	0.17	38,38,38,38	0
56	MG	DA	3214	1/1	0.89	0.14	32,32,32,32	0
56	MG	CA	1786	1/1	0.89	0.25	29,29,29,29	0
56	MG	AA	1810	1/1	0.89	0.25	47,47,47,47	0
56	MG	CA	1698	1/1	0.89	0.30	42,42,42,42	0
56	MG	DA	3231	1/1	0.89	0.33	72,72,72,72	0
56	MG	DA	3234	1/1	0.89	0.14	33,33,33,33	0
56	MG	AA	1814	1/1	0.89	0.16	25,25,25,25	0
56	MG	AA	1772	1/1	0.89	0.39	73,73,73,73	0
56	MG	BB	206	1/1	0.89	0.22	78,78,78,78	0
56	MG	DA	3253	1/1	0.89	0.29	71,71,71,71	0
56	MG	CW	111	1/1	0.89	0.21	77,77,77,77	0
56	MG	CA	1713	1/1	0.89	0.38	93,93,93,93	0
56	MG	BA	3103	1/1	0.89	0.09	55,55,55,55	0
56	MG	DA	3262	1/1	0.89	0.26	72,72,72,72	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CX	106	1/1	0.89	0.35	47,47,47,47	0
56	MG	BA	3109	1/1	0.89	0.15	34,34,34,34	0
56	MG	BA	3268	1/1	0.89	0.08	24,24,24,24	0
56	MG	DA	3022	1/1	0.89	0.16	37,37,37,37	0
56	MG	DA	3100	1/1	0.89	0.19	21,21,21,21	0
56	MG	BA	3367	1/1	0.89	0.13	50,50,50,50	0
56	MG	BA	3119	1/1	0.89	0.12	16,16,16,16	0
56	MG	BA	3125	1/1	0.89	0.25	18,18,18,18	0
56	MG	BA	3143	1/1	0.89	0.18	21,21,21,21	0
56	MG	BA	3377	1/1	0.89	0.10	43,43,43,43	0
56	MG	AA	1617	1/1	0.89	0.27	24,24,24,24	0
56	MG	AA	1681	1/1	0.89	0.08	21,21,21,21	0
56	MG	AA	1647	1/1	0.89	0.24	71,71,71,71	0
56	MG	DA	3162	1/1	0.89	0.24	35,35,35,35	0
56	MG	CA	1650	1/1	0.89	0.16	68,68,68,68	0
56	MG	DA	3353	1/1	0.89	0.28	42,42,42,42	0
56	MG	AA	1677	1/1	0.89	0.18	41,41,41,41	0
56	MG	AA	1755	1/1	0.89	0.19	47,47,47,47	0
56	MG	BA	3305	1/1	0.89	0.14	30,30,30,30	0
56	MG	DA	3394	1/1	0.89	0.09	66,66,66,66	0
56	MG	BA	3314	1/1	0.89	0.25	47,47,47,47	1
56	MG	DA	3188	1/1	0.89	0.17	42,42,42,42	0
56	MG	AA	1807	1/1	0.89	0.10	19,19,19,19	1
56	MG	DB	207	1/1	0.89	0.13	52,52,52,52	1
56	MG	BA	3327	1/1	0.89	0.05	30,30,30,30	0
56	MG	AA	1763	1/1	0.89	0.69	58,58,58,58	1
56	MG	BA	3331	1/1	0.90	0.07	45,45,45,45	0
56	MG	CA	1642	1/1	0.90	0.25	56,56,56,56	0
56	MG	DA	3238	1/1	0.90	0.22	54,54,54,54	0
56	MG	BA	3166	1/1	0.90	0.07	39,39,39,39	0
56	MG	DA	3024	1/1	0.90	0.23	20,20,20,20	0
56	MG	DA	3036	1/1	0.90	0.14	43,43,43,43	0
56	MG	DA	3042	1/1	0.90	0.41	58,58,58,58	0
56	MG	DA	3069	1/1	0.90	0.22	45,45,45,45	0
56	MG	BA	3414	1/1	0.90	0.39	44,44,44,44	0
56	MG	DA	3116	1/1	0.90	0.07	10,10,10,10	0
56	MG	BA	3272	1/1	0.90	0.28	49,49,49,49	0
56	MG	BA	3181	1/1	0.90	0.13	36,36,36,36	0
56	MG	BA	3337	1/1	0.90	0.05	57,57,57,57	0
56	MG	CA	1661	1/1	0.90	0.16	13,13,13,13	0
56	MG	BA	3070	1/1	0.90	0.17	24,24,24,24	0
56	MG	AW	116	1/1	0.90	0.07	58,58,58,58	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	1671	1/1	0.90	0.08	42,42,42,42	0
56	MG	DA	3276	1/1	0.90	0.18	45,45,45,45	0
56	MG	BA	3216	1/1	0.90	0.10	50,50,50,50	0
56	MG	AA	1769	1/1	0.90	0.15	61,61,61,61	0
56	MG	CA	1676	1/1	0.90	0.41	46,46,46,46	0
56	MG	CA	1759	1/1	0.90	0.14	68,68,68,68	0
56	MG	AA	1748	1/1	0.90	0.18	59,59,59,59	0
56	MG	DA	3329	1/1	0.90	0.14	45,45,45,45	0
56	MG	AA	1606	1/1	0.90	0.32	53,53,53,53	0
56	MG	AA	1731	1/1	0.90	0.17	56,56,56,56	0
56	MG	CA	1776	1/1	0.90	0.36	44,44,44,44	0
56	MG	BB	207	1/1	0.90	0.10	23,23,23,23	0
56	MG	AA	1809	1/1	0.90	0.23	40,40,40,40	1
56	MG	DA	3357	1/1	0.90	0.09	26,26,26,26	0
56	MG	BA	3043	1/1	0.90	0.38	82,82,82,82	0
56	MG	BB	218	1/1	0.90	0.07	36,36,36,36	1
56	MG	AA	1619	1/1	0.90	0.23	41,41,41,41	0
56	MG	DA	3391	1/1	0.90	0.14	62,62,62,62	1
56	MG	DA	3392	1/1	0.90	0.05	47,47,47,47	0
56	MG	DA	3393	1/1	0.90	0.06	80,80,80,80	0
56	MG	BA	3326	1/1	0.90	0.13	49,49,49,49	0
56	MG	CA	1615	1/1	0.90	0.14	61,61,61,61	0
56	MG	CW	110	1/1	0.90	0.08	38,38,38,38	0
56	MG	CA	1619	1/1	0.90	0.17	55,55,55,55	0
56	MG	BA	3261	1/1	0.90	0.10	24,24,24,24	0
56	MG	BA	3403	1/1	0.90	0.21	78,78,78,78	0
56	MG	BA	3330	1/1	0.90	0.06	33,33,33,33	0
56	MG	CA	1767	1/1	0.91	0.39	67,67,67,67	0
56	MG	CA	1768	1/1	0.91	0.15	37,37,37,37	0
56	MG	AA	1608	1/1	0.91	0.14	47,47,47,47	0
56	MG	CA	1674	1/1	0.91	0.10	58,58,58,58	0
56	MG	BA	3227	1/1	0.91	0.18	49,49,49,49	0
56	MG	CA	1787	1/1	0.91	0.21	39,39,39,39	1
56	MG	BA	3431	1/1	0.91	0.16	51,51,51,51	0
56	MG	CA	1680	1/1	0.91	0.14	51,51,51,51	0
56	MG	AA	1627	1/1	0.91	0.38	39,39,39,39	0
56	MG	CA	1691	1/1	0.91	0.19	56,56,56,56	0
56	MG	CA	1694	1/1	0.91	0.07	33,33,33,33	0
56	MG	BA	3452	1/1	0.91	0.21	39,39,39,39	0
56	MG	DA	3245	1/1	0.91	0.15	38,38,38,38	0
56	MG	AW	110	1/1	0.91	0.12	46,46,46,46	0
56	MG	BA	3253	1/1	0.91	0.18	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	1629	1/1	0.91	0.10	29,29,29,29	0
56	MG	BA	3255	1/1	0.91	0.16	28,28,28,28	0
56	MG	AA	1736	1/1	0.91	0.11	19,19,19,19	0
56	MG	BA	3147	1/1	0.91	0.07	20,20,20,20	0
56	MG	AA	1616	1/1	0.91	0.16	18,18,18,18	0
56	MG	AA	1721	1/1	0.91	0.13	28,28,28,28	0
56	MG	BB	215	1/1	0.91	0.09	40,40,40,40	0
56	MG	CA	1718	1/1	0.91	0.17	47,47,47,47	0
56	MG	AA	1686	1/1	0.91	0.20	52,52,52,52	0
56	MG	BA	3358	1/1	0.91	0.06	42,42,42,42	0
56	MG	DA	3106	1/1	0.91	0.11	15,15,15,15	0
56	MG	CA	1609	1/1	0.91	0.08	33,33,33,33	0
56	MG	CA	1610	1/1	0.91	0.17	15,15,15,15	0
56	MG	DA	3279	1/1	0.91	0.12	15,15,15,15	0
56	MG	AA	1623	1/1	0.91	0.10	32,32,32,32	0
56	MG	BA	3178	1/1	0.91	0.31	54,54,54,54	0
56	MG	DA	3142	1/1	0.91	0.11	52,52,52,52	0
56	MG	BA	3373	1/1	0.91	0.09	39,39,39,39	0
56	MG	B5	102	1/1	0.91	0.14	24,24,24,24	0
56	MG	BA	3204	1/1	0.91	0.07	0,0,0,0	0
56	MG	BA	3212	1/1	0.91	0.21	47,47,47,47	0
56	MG	BA	3286	1/1	0.91	0.20	38,38,38,38	0
56	MG	DA	3339	1/1	0.91	0.06	17,17,17,17	0
56	MG	BA	3384	1/1	0.91	0.20	36,36,36,36	0
56	MG	BA	3293	1/1	0.91	0.13	51,51,51,51	0
56	MG	AA	1788	1/1	0.91	0.04	16,16,16,16	0
56	MG	AA	1790	1/1	0.91	0.08	65,65,65,65	0
56	MG	DA	3170	1/1	0.91	0.14	54,54,54,54	0
56	MG	DA	3379	1/1	0.91	0.14	31,31,31,31	0
56	MG	DA	3172	1/1	0.91	0.11	25,25,25,25	0
56	MG	DA	3389	1/1	0.91	0.16	22,22,22,22	0
56	MG	AW	103	1/1	0.91	0.08	51,51,51,51	0
56	MG	BA	3217	1/1	0.91	0.30	37,37,37,37	0
56	MG	BA	3308	1/1	0.91	0.08	25,25,25,25	0
56	MG	DA	3189	1/1	0.91	0.20	34,34,34,34	0
56	MG	BA	3218	1/1	0.91	0.23	56,56,56,56	0
56	MG	BA	3322	1/1	0.91	0.05	35,35,35,35	0
56	MG	DA	3200	1/1	0.91	0.11	26,26,26,26	0
56	MG	AW	105	1/1	0.91	0.08	64,64,64,64	0
56	MG	DA	3205	1/1	0.91	0.08	19,19,19,19	0
56	MG	DN	201	1/1	0.91	0.12	16,16,16,16	0
56	MG	CA	1765	1/1	0.91	0.11	38,38,38,38	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3029	1/1	0.92	0.16	30,30,30,30	0
56	MG	DA	3177	1/1	0.92	0.16	22,22,22,22	0
56	MG	DA	3186	1/1	0.92	0.16	24,24,24,24	0
56	MG	CA	1601	1/1	0.92	0.06	26,26,26,26	0
56	MG	CA	1602	1/1	0.92	0.08	14,14,14,14	0
56	MG	CA	1604	1/1	0.92	0.27	45,45,45,45	0
56	MG	AA	1725	1/1	0.92	0.13	53,53,53,53	0
56	MG	AA	1749	1/1	0.92	0.25	38,38,38,38	0
56	MG	BA	3241	1/1	0.92	0.08	43,43,43,43	0
56	MG	AA	1685	1/1	0.92	0.06	38,38,38,38	0
56	MG	CA	1616	1/1	0.92	0.21	24,24,24,24	0
56	MG	CA	1617	1/1	0.92	0.08	25,25,25,25	0
56	MG	BA	3088	1/1	0.92	0.26	35,35,35,35	0
56	MG	BA	3091	1/1	0.92	0.18	20,20,20,20	0
56	MG	AA	1730	1/1	0.92	0.32	82,82,82,82	0
56	MG	DA	3212	1/1	0.92	0.12	61,61,61,61	0
56	MG	AA	1812	1/1	0.92	0.15	50,50,50,50	0
56	MG	BA	3111	1/1	0.92	0.12	27,27,27,27	0
56	MG	CA	1639	1/1	0.92	0.24	71,71,71,71	0
56	MG	CA	1766	1/1	0.92	0.16	18,18,18,18	0
56	MG	AA	1758	1/1	0.92	0.17	62,62,62,62	0
56	MG	DA	3230	1/1	0.92	0.15	20,20,20,20	0
56	MG	CA	1643	1/1	0.92	0.29	48,48,48,48	0
56	MG	AA	1663	1/1	0.92	0.09	24,24,24,24	0
56	MG	BA	3275	1/1	0.92	0.07	19,19,19,19	0
56	MG	BA	3379	1/1	0.92	0.13	39,39,39,39	0
56	MG	BA	3128	1/1	0.92	0.26	18,18,18,18	0
56	MG	CJ	201	1/1	0.92	0.08	44,44,44,44	0
56	MG	BA	3142	1/1	0.92	0.22	66,66,66,66	0
56	MG	CA	1658	1/1	0.92	0.10	40,40,40,40	0
56	MG	CW	102	1/1	0.92	0.19	52,52,52,52	0
56	MG	AA	1767	1/1	0.92	0.18	48,48,48,48	0
56	MG	DA	3260	1/1	0.92	0.20	44,44,44,44	0
56	MG	CA	1663	1/1	0.92	0.10	32,32,32,32	0
56	MG	AA	1650	1/1	0.92	0.16	31,31,31,31	0
56	MG	BA	3148	1/1	0.92	0.12	37,37,37,37	0
56	MG	AA	1612	1/1	0.92	0.14	31,31,31,31	0
56	MG	CW	112	1/1	0.92	0.15	53,53,53,53	0
56	MG	AA	1775	1/1	0.92	0.18	29,29,29,29	0
56	MG	CX	103	1/1	0.92	0.07	40,40,40,40	0
56	MG	AA	1654	1/1	0.92	0.10	50,50,50,50	0
56	MG	AA	1657	1/1	0.92	0.20	50,50,50,50	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3002	1/1	0.92	0.14	38,38,38,38	0
56	MG	BA	3168	1/1	0.92	0.15	22,22,22,22	0
56	MG	DA	3282	1/1	0.92	0.15	41,41,41,41	0
56	MG	DA	3285	1/1	0.92	0.18	15,15,15,15	0
56	MG	DA	3296	1/1	0.92	0.12	59,59,59,59	0
56	MG	BA	3422	1/1	0.92	0.24	39,39,39,39	0
56	MG	AA	1784	1/1	0.92	0.15	41,41,41,41	0
56	MG	DA	3318	1/1	0.92	0.13	45,45,45,45	0
56	MG	AA	1709	1/1	0.92	0.08	33,33,33,33	0
56	MG	DA	3324	1/1	0.92	0.37	56,56,56,56	0
56	MG	DA	3325	1/1	0.92	0.12	35,35,35,35	0
56	MG	BA	3430	1/1	0.92	0.17	30,30,30,30	0
56	MG	BA	3309	1/1	0.92	0.12	14,14,14,14	0
56	MG	DA	3058	1/1	0.92	0.17	6,6,6,6	0
56	MG	AA	1715	1/1	0.92	0.07	24,24,24,24	0
56	MG	BA	3435	1/1	0.92	0.09	52,52,52,52	1
56	MG	DA	3101	1/1	0.92	0.18	38,38,38,38	0
56	MG	BA	3439	1/1	0.92	0.20	31,31,31,31	0
56	MG	DA	3346	1/1	0.92	0.12	29,29,29,29	0
56	MG	DA	3347	1/1	0.92	0.06	34,34,34,34	0
56	MG	BA	3446	1/1	0.92	0.18	43,43,43,43	0
56	MG	BA	3447	1/1	0.92	0.15	37,37,37,37	0
56	MG	BA	3320	1/1	0.92	0.09	37,37,37,37	0
56	MG	DA	3360	1/1	0.92	0.23	39,39,39,39	0
56	MG	AX	102	1/1	0.92	0.07	32,32,32,32	0
56	MG	DA	3371	1/1	0.92	0.23	40,40,40,40	0
56	MG	DA	3373	1/1	0.92	0.10	28,28,28,28	0
56	MG	AA	1660	1/1	0.92	0.20	61,61,61,61	0
56	MG	DA	3145	1/1	0.92	0.10	27,27,27,27	0
56	MG	DA	3384	1/1	0.92	0.07	25,25,25,25	0
56	MG	B2	102	1/1	0.92	0.10	44,44,44,44	0
56	MG	AA	1643	1/1	0.92	0.11	22,22,22,22	0
56	MG	BA	3329	1/1	0.92	0.07	34,34,34,34	0
56	MG	CA	1720	1/1	0.92	0.16	69,69,69,69	0
56	MG	AA	1794	1/1	0.92	0.26	56,56,56,56	0
56	MG	DA	3396	1/1	0.92	0.07	27,27,27,27	1
56	MG	AA	1795	1/1	0.92	0.25	30,30,30,30	0
56	MG	DB	203	1/1	0.92	0.13	33,33,33,33	0
56	MG	BA	3219	1/1	0.92	0.10	45,45,45,45	0
56	MG	AA	1747	1/1	0.92	0.07	37,37,37,37	0
56	MG	CA	1727	1/1	0.92	0.26	37,37,37,37	0
56	MG	DE	301	1/1	0.92	0.17	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	DA	3169	1/1	0.92	0.13	27,27,27,27	0
56	MG	BA	3021	1/1	0.92	0.24	17,17,17,17	0
56	MG	CA	1730	1/1	0.92	0.22	56,56,56,56	0
56	MG	CA	1645	1/1	0.93	0.20	74,74,74,74	0
56	MG	BA	3436	1/1	0.93	0.11	39,39,39,39	1
56	MG	BA	3438	1/1	0.93	0.14	25,25,25,25	0
56	MG	DA	3112	1/1	0.93	0.04	0,0,0,0	0
56	MG	DA	3115	1/1	0.93	0.10	16,16,16,16	0
56	MG	CA	1648	1/1	0.93	0.07	34,34,34,34	0
56	MG	CA	1649	1/1	0.93	0.11	37,37,37,37	0
56	MG	DA	3263	1/1	0.93	0.19	30,30,30,30	0
56	MG	AY	101	1/1	0.93	0.20	56,56,56,56	0
56	MG	BA	3107	1/1	0.93	0.25	53,53,53,53	0
56	MG	BA	3364	1/1	0.93	0.22	35,35,35,35	0
56	MG	DA	3144	1/1	0.93	0.16	31,31,31,31	0
56	MG	BA	3448	1/1	0.93	0.09	35,35,35,35	0
56	MG	AA	1679	1/1	0.93	0.08	5,5,5,5	1
56	MG	BA	3454	1/1	0.93	0.07	44,44,44,44	0
56	MG	DA	3152	1/1	0.93	0.07	17,17,17,17	0
56	MG	DA	3278	1/1	0.93	0.20	38,38,38,38	0
56	MG	DA	3153	1/1	0.93	0.22	40,40,40,40	0
56	MG	BA	3257	1/1	0.93	0.10	55,55,55,55	0
56	MG	DA	3283	1/1	0.93	0.17	35,35,35,35	0
56	MG	BA	3313	1/1	0.93	0.12	21,21,21,21	0
56	MG	AA	1703	1/1	0.93	0.22	23,23,23,23	0
56	MG	DA	3304	1/1	0.93	0.08	9,9,9,9	0
56	MG	BA	3315	1/1	0.93	0.11	43,43,43,43	0
56	MG	AW	102	1/1	0.93	0.08	51,51,51,51	0
56	MG	AA	1798	1/1	0.93	0.07	36,36,36,36	0
56	MG	BA	3215	1/1	0.93	0.16	30,30,30,30	0
56	MG	AA	1634	1/1	0.93	0.12	34,34,34,34	0
56	MG	AA	1802	1/1	0.93	0.08	44,44,44,44	0
56	MG	DA	3171	1/1	0.93	0.19	37,37,37,37	0
56	MG	BB	217	1/1	0.93	0.06	34,34,34,34	0
56	MG	CF	201	1/1	0.93	0.09	44,44,44,44	0
56	MG	BA	3401	1/1	0.93	0.13	48,48,48,48	0
56	MG	BA	3276	1/1	0.93	0.06	6,6,6,6	0
56	MG	BA	3407	1/1	0.93	0.05	40,40,40,40	0
56	MG	DA	3341	1/1	0.93	0.09	26,26,26,26	0
56	MG	AW	108	1/1	0.93	0.09	35,35,35,35	0
56	MG	DA	3344	1/1	0.93	0.16	32,32,32,32	0
56	MG	CA	1704	1/1	0.93	0.10	5,5,5,5	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	BA	3409	1/1	0.93	0.12	53,53,53,53	0
56	MG	DA	3348	1/1	0.93	0.13	46,46,46,46	0
56	MG	DA	3352	1/1	0.93	0.09	9,9,9,9	0
56	MG	BA	3411	1/1	0.93	0.09	62,62,62,62	0
56	MG	AA	1690	1/1	0.93	0.16	48,48,48,48	0
56	MG	AA	1743	1/1	0.93	0.14	44,44,44,44	0
56	MG	AA	1789	1/1	0.93	0.06	18,18,18,18	0
56	MG	DA	3364	1/1	0.93	0.21	57,57,57,57	0
56	MG	BA	3069	1/1	0.93	0.10	36,36,36,36	0
56	MG	BA	3416	1/1	0.93	0.08	16,16,16,16	0
56	MG	AA	1684	1/1	0.93	0.13	17,17,17,17	0
56	MG	DA	3375	1/1	0.93	0.14	42,42,42,42	1
56	MG	BA	3343	1/1	0.93	0.10	34,34,34,34	0
56	MG	CA	1627	1/1	0.93	0.13	34,34,34,34	0
56	MG	CA	1631	1/1	0.93	0.29	48,48,48,48	0
56	MG	BA	3426	1/1	0.93	0.09	3,3,3,3	0
56	MG	BA	3344	1/1	0.93	0.05	17,17,17,17	0
56	MG	BA	3288	1/1	0.93	0.17	32,32,32,32	1
56	MG	DA	3029	1/1	0.93	0.16	36,36,36,36	0
56	MG	DA	3222	1/1	0.93	0.27	24,24,24,24	0
56	MG	DA	3395	1/1	0.93	0.08	45,45,45,45	0
56	MG	BA	3231	1/1	0.93	0.40	45,45,45,45	0
56	MG	BA	3347	1/1	0.93	0.06	22,22,22,22	1
56	MG	DA	3057	1/1	0.93	0.24	35,35,35,35	0
56	MG	DA	3237	1/1	0.93	0.11	15,15,15,15	0
56	MG	AA	1719	1/1	0.93	0.05	65,65,65,65	0
56	MG	AA	1615	1/1	0.93	0.16	33,33,33,33	0
56	MG	DB	211	1/1	0.93	0.08	45,45,45,45	0
56	MG	DA	3082	1/1	0.93	0.17	10,10,10,10	0
56	MG	DA	3246	1/1	0.93	0.14	38,38,38,38	0
56	MG	DA	3096	1/1	0.93	0.18	21,21,21,21	0
56	MG	DA	3249	1/1	0.93	0.55	57,57,57,57	0
56	MG	DZ	301	1/1	0.93	0.07	27,27,27,27	0
57	PAR	AA	1816	42/42	0.93	0.11	15,20,38,42	0
57	PAR	CA	1790	42/42	0.93	0.11	7,11,29,33	0
56	MG	BA	3291	1/1	0.94	0.08	12,12,12,12	0
56	MG	BA	3197	1/1	0.94	0.08	18,18,18,18	0
56	MG	AA	1602	1/1	0.94	0.10	39,39,39,39	0
56	MG	CA	1633	1/1	0.94	0.18	19,19,19,19	0
56	MG	BA	3406	1/1	0.94	0.22	18,18,18,18	0
56	MG	AV	106	1/1	0.94	0.17	40,40,40,40	0
56	MG	BA	3028	1/1	0.94	0.23	36,36,36,36	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	1772	1/1	0.94	0.12	37,37,37,37	0
56	MG	AV	107	1/1	0.94	0.09	25,25,25,25	0
56	MG	CA	1640	1/1	0.94	0.15	43,43,43,43	0
56	MG	BA	3410	1/1	0.94	0.06	41,41,41,41	0
56	MG	BA	3306	1/1	0.94	0.13	20,20,20,20	0
56	MG	CA	1789	1/1	0.94	0.21	33,33,33,33	0
56	MG	DA	3232	1/1	0.94	0.03	13,13,13,13	0
56	MG	AA	1751	1/1	0.94	0.07	19,19,19,19	0
56	MG	BA	3051	1/1	0.94	0.09	56,56,56,56	0
56	MG	AA	1753	1/1	0.94	0.16	26,26,26,26	0
56	MG	AA	1631	1/1	0.94	0.15	21,21,21,21	0
56	MG	AA	1701	1/1	0.94	0.05	18,18,18,18	0
56	MG	BA	3417	1/1	0.94	0.20	29,29,29,29	0
56	MG	CW	105	1/1	0.94	0.09	30,30,30,30	0
56	MG	BA	3418	1/1	0.94	0.07	64,64,64,64	0
56	MG	CA	1651	1/1	0.94	0.19	31,31,31,31	0
56	MG	DA	3251	1/1	0.94	0.14	20,20,20,20	0
56	MG	BA	3316	1/1	0.94	0.20	49,49,49,49	0
56	MG	CA	1656	1/1	0.94	0.10	14,14,14,14	0
56	MG	DA	3256	1/1	0.94	0.07	22,22,22,22	0
56	MG	BA	3420	1/1	0.94	0.13	59,59,59,59	1
56	MG	BA	3317	1/1	0.94	0.14	50,50,50,50	0
56	MG	CA	1662	1/1	0.94	0.10	18,18,18,18	0
56	MG	BA	3425	1/1	0.94	0.06	61,61,61,61	0
56	MG	AA	1793	1/1	0.94	0.14	71,71,71,71	0
56	MG	AA	1760	1/1	0.94	0.09	48,48,48,48	0
56	MG	CA	1670	1/1	0.94	0.06	23,23,23,23	0
56	MG	AA	1604	1/1	0.94	0.14	52,52,52,52	0
56	MG	DA	3008	1/1	0.94	0.10	23,23,23,23	0
56	MG	DA	3010	1/1	0.94	0.11	44,44,44,44	0
56	MG	DA	3016	1/1	0.94	0.27	52,52,52,52	0
56	MG	BA	3229	1/1	0.94	0.12	36,36,36,36	0
56	MG	AA	1797	1/1	0.94	0.05	26,26,26,26	0
56	MG	AA	1739	1/1	0.94	0.12	23,23,23,23	0
56	MG	AA	1705	1/1	0.94	0.15	21,21,21,21	0
56	MG	DA	3280	1/1	0.94	0.06	16,16,16,16	0
56	MG	DA	3281	1/1	0.94	0.09	14,14,14,14	1
56	MG	DA	3037	1/1	0.94	0.19	4,4,4,4	0
56	MG	BA	3237	1/1	0.94	0.32	35,35,35,35	0
56	MG	DA	3048	1/1	0.94	0.10	53,53,53,53	0
56	MG	DA	3291	1/1	0.94	0.07	0,0,0,0	0
56	MG	AW	118	1/1	0.94	0.11	46,46,46,46	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3297	1/1	0.94	0.17	23,23,23,23	0
56	MG	BA	3245	1/1	0.94	0.09	9,9,9,9	0
56	MG	DA	3061	1/1	0.94	0.20	0,0,0,0	0
56	MG	DA	3067	1/1	0.94	0.11	26,26,26,26	0
56	MG	DA	3316	1/1	0.94	0.14	7,7,7,7	0
56	MG	DA	3068	1/1	0.94	0.10	14,14,14,14	0
56	MG	BA	3441	1/1	0.94	0.11	33,33,33,33	0
56	MG	DA	3321	1/1	0.94	0.07	45,45,45,45	1
56	MG	DA	3071	1/1	0.94	0.10	18,18,18,18	0
56	MG	BA	3442	1/1	0.94	0.14	29,29,29,29	0
56	MG	AA	1729	1/1	0.94	0.09	45,45,45,45	0
56	MG	DA	3098	1/1	0.94	0.13	19,19,19,19	0
56	MG	AW	122	1/1	0.94	0.06	37,37,37,37	0
56	MG	DA	3332	1/1	0.94	0.06	45,45,45,45	0
56	MG	BA	3341	1/1	0.94	0.12	21,21,21,21	0
56	MG	BA	3450	1/1	0.94	0.15	55,55,55,55	0
56	MG	BA	3129	1/1	0.94	0.06	21,21,21,21	0
56	MG	DA	3340	1/1	0.94	0.09	30,30,30,30	0
56	MG	BA	3256	1/1	0.94	0.10	22,22,22,22	0
56	MG	AA	1773	1/1	0.94	0.11	41,41,41,41	0
56	MG	AA	1708	1/1	0.94	0.15	41,41,41,41	0
56	MG	AA	1653	1/1	0.94	0.13	39,39,39,39	0
56	MG	AA	1781	1/1	0.94	0.16	27,27,27,27	0
56	MG	BA	3150	1/1	0.94	0.13	35,35,35,35	0
56	MG	DA	3350	1/1	0.94	0.09	37,37,37,37	0
56	MG	BA	3354	1/1	0.94	0.06	35,35,35,35	0
56	MG	BB	209	1/1	0.94	0.12	49,49,49,49	0
56	MG	DA	3148	1/1	0.94	0.12	5,5,5,5	0
56	MG	BA	3269	1/1	0.94	0.41	43,43,43,43	0
56	MG	BA	3360	1/1	0.94	0.11	25,25,25,25	0
56	MG	BB	214	1/1	0.94	0.14	46,46,46,46	0
56	MG	DA	3367	1/1	0.94	0.04	19,19,19,19	0
56	MG	DA	3368	1/1	0.94	0.36	71,71,71,71	0
56	MG	CA	1724	1/1	0.94	0.10	38,38,38,38	0
56	MG	BA	3153	1/1	0.94	0.07	37,37,37,37	0
56	MG	AA	1713	1/1	0.94	0.11	7,7,7,7	0
56	MG	DA	3374	1/1	0.94	0.11	50,50,50,50	0
56	MG	AA	1813	1/1	0.94	0.07	25,25,25,25	0
56	MG	DA	3376	1/1	0.94	0.15	25,25,25,25	0
56	MG	BA	3372	1/1	0.94	0.10	43,43,43,43	1
56	MG	DA	3380	1/1	0.94	0.26	55,55,55,55	0
56	MG	CA	1732	1/1	0.94	0.16	43,43,43,43	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	DA	3165	1/1	0.94	0.11	38,38,38,38	0
56	MG	AA	1673	1/1	0.94	0.12	26,26,26,26	0
56	MG	CA	1735	1/1	0.94	0.16	17,17,17,17	0
56	MG	BA	3002	1/1	0.94	0.13	21,21,21,21	0
56	MG	CA	1738	1/1	0.94	0.05	23,23,23,23	0
56	MG	CA	1603	1/1	0.94	0.06	25,25,25,25	0
56	MG	CA	1741	1/1	0.94	0.24	40,40,40,40	0
56	MG	BA	3167	1/1	0.94	0.14	33,33,33,33	0
56	MG	BA	3004	1/1	0.94	0.42	77,77,77,77	0
56	MG	DA	3183	1/1	0.94	0.05	0,0,0,0	0
56	MG	DA	3185	1/1	0.94	0.12	8,8,8,8	1
56	MG	BA	3172	1/1	0.94	0.20	22,22,22,22	0
56	MG	BA	3005	1/1	0.94	0.09	26,26,26,26	0
56	MG	BA	3380	1/1	0.94	0.38	77,77,77,77	0
56	MG	BA	3012	1/1	0.94	0.08	20,20,20,20	0
56	MG	CA	1755	1/1	0.94	0.10	26,26,26,26	1
56	MG	CA	1756	1/1	0.94	0.06	41,41,41,41	0
56	MG	DA	3199	1/1	0.94	0.07	26,26,26,26	0
56	MG	BA	3390	1/1	0.94	0.06	20,20,20,20	1
56	MG	BA	3289	1/1	0.94	0.14	41,41,41,41	0
56	MG	CA	1620	1/1	0.94	0.24	32,32,32,32	0
56	MG	BA	3194	1/1	0.95	0.20	30,30,30,30	0
56	MG	DA	3236	1/1	0.95	0.15	54,54,54,54	0
56	MG	AA	1712	1/1	0.95	0.06	22,22,22,22	0
56	MG	DA	3001	1/1	0.95	0.15	20,20,20,20	0
56	MG	BA	3369	1/1	0.95	0.05	30,30,30,30	0
56	MG	BA	3203	1/1	0.95	0.17	14,14,14,14	0
56	MG	BA	3112	1/1	0.95	0.05	31,31,31,31	0
56	MG	BA	3114	1/1	0.95	0.17	0,0,0,0	0
56	MG	BA	3287	1/1	0.95	0.14	46,46,46,46	0
56	MG	DA	3012	1/1	0.95	0.12	27,27,27,27	0
56	MG	AW	117	1/1	0.95	0.07	24,24,24,24	0
56	MG	DA	3020	1/1	0.95	0.17	1,1,1,1	0
56	MG	BB	210	1/1	0.95	0.08	33,33,33,33	1
56	MG	BA	3120	1/1	0.95	0.04	23,23,23,23	0
56	MG	DA	3028	1/1	0.95	0.13	0,0,0,0	0
56	MG	BA	3018	1/1	0.95	0.19	22,22,22,22	0
56	MG	DA	3032	1/1	0.95	0.21	59,59,59,59	0
56	MG	AA	1638	1/1	0.95	0.18	24,24,24,24	0
56	MG	BA	3383	1/1	0.95	0.05	37,37,37,37	0
56	MG	DA	3038	1/1	0.95	0.10	17,17,17,17	0
56	MG	AV	102	1/1	0.95	0.07	28,28,28,28	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	BA	3298	1/1	0.95	0.17	25,25,25,25	0
56	MG	BA	3135	1/1	0.95	0.07	18,18,18,18	0
56	MG	BN	201	1/1	0.95	0.05	25,25,25,25	0
56	MG	BA	3137	1/1	0.95	0.15	6,6,6,6	0
56	MG	DA	3062	1/1	0.95	0.23	13,13,13,13	0
56	MG	BA	3396	1/1	0.95	0.06	15,15,15,15	0
56	MG	BA	3397	1/1	0.95	0.12	32,32,32,32	0
56	MG	BA	3400	1/1	0.95	0.13	46,46,46,46	0
56	MG	CA	1606	1/1	0.95	0.16	16,16,16,16	0
56	MG	CA	1726	1/1	0.95	0.13	29,29,29,29	0
56	MG	DA	3084	1/1	0.95	0.13	29,29,29,29	0
56	MG	DA	3093	1/1	0.95	0.10	16,16,16,16	0
56	MG	BA	3302	1/1	0.95	0.13	14,14,14,14	0
56	MG	CA	1728	1/1	0.95	0.17	42,42,42,42	0
56	MG	DA	3292	1/1	0.95	0.07	5,5,5,5	0
56	MG	BA	3138	1/1	0.95	0.15	12,12,12,12	0
56	MG	BA	3141	1/1	0.95	0.07	20,20,20,20	0
56	MG	DA	3298	1/1	0.95	0.12	5,5,5,5	0
56	MG	CA	1731	1/1	0.95	0.09	32,32,32,32	0
56	MG	DA	3305	1/1	0.95	0.06	28,28,28,28	0
56	MG	DA	3307	1/1	0.95	0.06	34,34,34,34	1
56	MG	DA	3111	1/1	0.95	0.15	1,1,1,1	0
56	MG	BA	3223	1/1	0.95	0.08	8,8,8,8	0
56	MG	DA	3314	1/1	0.95	0.09	16,16,16,16	0
56	MG	CA	1733	1/1	0.95	0.06	31,31,31,31	0
56	MG	BA	3226	1/1	0.95	0.15	20,20,20,20	0
56	MG	DA	3319	1/1	0.95	0.05	52,52,52,52	0
56	MG	AA	1777	1/1	0.95	0.22	55,55,55,55	0
56	MG	DA	3123	1/1	0.95	0.08	20,20,20,20	0
56	MG	DA	3128	1/1	0.95	0.12	0,0,0,0	0
56	MG	BA	3033	1/1	0.95	0.24	30,30,30,30	0
56	MG	BA	3036	1/1	0.95	0.12	25,25,25,25	0
56	MG	AA	1671	1/1	0.95	0.15	19,19,19,19	0
56	MG	BA	3044	1/1	0.95	0.16	5,5,5,5	0
56	MG	BA	3234	1/1	0.95	0.27	29,29,29,29	0
56	MG	BA	3152	1/1	0.95	0.22	45,45,45,45	0
56	MG	BA	3239	1/1	0.95	0.20	12,12,12,12	0
56	MG	DA	3150	1/1	0.95	0.17	40,40,40,40	0
56	MG	CA	1635	1/1	0.95	0.21	19,19,19,19	0
56	MG	BA	3325	1/1	0.95	0.04	28,28,28,28	0
56	MG	BA	3240	1/1	0.95	0.13	15,15,15,15	0
56	MG	AA	1624	1/1	0.95	0.11	33,33,33,33	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	1783	1/1	0.95	0.22	46,46,46,46	0
56	MG	CA	1641	1/1	0.95	0.09	13,13,13,13	0
56	MG	DA	3161	1/1	0.95	0.14	39,39,39,39	0
56	MG	DA	3349	1/1	0.95	0.12	27,27,27,27	0
56	MG	BA	3251	1/1	0.95	0.13	11,11,11,11	0
56	MG	DA	3351	1/1	0.95	0.06	16,16,16,16	0
56	MG	BA	3424	1/1	0.95	0.14	38,38,38,38	0
56	MG	BA	3155	1/1	0.95	0.47	66,66,66,66	0
56	MG	BA	3156	1/1	0.95	0.11	28,28,28,28	0
56	MG	BA	3333	1/1	0.95	0.06	41,41,41,41	0
56	MG	CA	1764	1/1	0.95	0.09	15,15,15,15	0
56	MG	AA	1766	1/1	0.95	0.09	23,23,23,23	0
56	MG	DA	3365	1/1	0.95	0.14	29,29,29,29	0
56	MG	AA	1786	1/1	0.95	0.19	31,31,31,31	0
56	MG	BA	3072	1/1	0.95	0.21	13,13,13,13	0
56	MG	BA	3432	1/1	0.95	0.06	15,15,15,15	0
56	MG	CA	1769	1/1	0.95	0.05	18,18,18,18	0
56	MG	AA	1668	1/1	0.95	0.10	23,23,23,23	0
56	MG	CA	1775	1/1	0.95	0.16	35,35,35,35	0
56	MG	BA	3434	1/1	0.95	0.06	28,28,28,28	0
56	MG	AA	1768	1/1	0.95	0.04	14,14,14,14	1
56	MG	DA	3377	1/1	0.95	0.04	6,6,6,6	1
56	MG	CA	1781	1/1	0.95	0.17	29,29,29,29	0
56	MG	AA	1710	1/1	0.95	0.09	29,29,29,29	0
56	MG	CA	1660	1/1	0.95	0.17	22,22,22,22	0
56	MG	DA	3382	1/1	0.95	0.04	6,6,6,6	0
56	MG	CA	1788	1/1	0.95	0.11	42,42,42,42	1
56	MG	DA	3387	1/1	0.95	0.06	11,11,11,11	0
56	MG	BA	3265	1/1	0.95	0.29	37,37,37,37	0
56	MG	BA	3266	1/1	0.95	0.17	28,28,28,28	0
56	MG	BA	3174	1/1	0.95	0.08	0,0,0,0	0
56	MG	CU	101	1/1	0.95	0.03	38,38,38,38	0
56	MG	CV	101	1/1	0.95	0.13	32,32,32,32	0
56	MG	BA	3177	1/1	0.95	0.12	7,7,7,7	0
56	MG	CA	1667	1/1	0.95	0.15	41,41,41,41	0
56	MG	DB	201	1/1	0.95	0.05	19,19,19,19	0
56	MG	CV	104	1/1	0.95	0.19	36,36,36,36	0
56	MG	BA	3445	1/1	0.95	0.13	52,52,52,52	0
56	MG	BA	3271	1/1	0.95	0.16	33,33,33,33	0
56	MG	AA	1752	1/1	0.95	0.16	25,25,25,25	0
56	MG	CA	1672	1/1	0.95	0.09	32,32,32,32	0
56	MG	AA	1723	1/1	0.95	0.04	9,9,9,9	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	DD	302	1/1	0.95	0.06	7,7,7,7	0
56	MG	BA	3449	1/1	0.95	0.12	27,27,27,27	0
56	MG	DA	3221	1/1	0.95	0.07	11,11,11,11	0
56	MG	BA	3184	1/1	0.95	0.15	1,1,1,1	0
56	MG	DA	3229	1/1	0.95	0.16	1,1,1,1	0
56	MG	DS	201	1/1	0.95	0.12	14,14,14,14	1
56	MG	DU	201	1/1	0.95	0.08	45,45,45,45	0
56	MG	BA	3451	1/1	0.95	0.10	43,43,43,43	0
56	MG	CA	1677	1/1	0.95	0.06	28,28,28,28	0
56	MG	BA	3190	1/1	0.95	0.15	49,49,49,49	0
56	MG	AA	1714	1/1	0.96	0.05	28,28,28,28	0
56	MG	BA	3022	1/1	0.96	0.12	25,25,25,25	0
56	MG	DA	3195	1/1	0.96	0.05	0,0,0,0	1
56	MG	BA	3023	1/1	0.96	0.18	0,0,0,0	0
56	MG	BA	3378	1/1	0.96	0.05	54,54,54,54	1
56	MG	DA	3202	1/1	0.96	0.14	37,37,37,37	0
56	MG	AA	1762	1/1	0.96	0.03	18,18,18,18	0
56	MG	DA	3204	1/1	0.96	0.11	8,8,8,8	0
56	MG	CA	1618	1/1	0.96	0.08	25,25,25,25	0
56	MG	AA	1692	1/1	0.96	0.18	0,0,0,0	0
56	MG	BA	3382	1/1	0.96	0.14	63,63,63,63	0
56	MG	BA	3032	1/1	0.96	0.06	17,17,17,17	0
56	MG	CA	1625	1/1	0.96	0.12	19,19,19,19	0
56	MG	CA	1626	1/1	0.96	0.19	11,11,11,11	0
56	MG	CA	1779	1/1	0.96	0.19	31,31,31,31	0
56	MG	BA	3270	1/1	0.96	0.06	0,0,0,0	0
56	MG	DA	3215	1/1	0.96	0.04	31,31,31,31	0
56	MG	CA	1629	1/1	0.96	0.08	10,10,10,10	0
56	MG	CA	1782	1/1	0.96	0.14	29,29,29,29	0
56	MG	BA	3387	1/1	0.96	0.05	38,38,38,38	0
56	MG	BA	3388	1/1	0.96	0.17	22,22,22,22	0
56	MG	BA	3160	1/1	0.96	0.14	17,17,17,17	0
56	MG	DA	3225	1/1	0.96	0.13	22,22,22,22	0
56	MG	DA	3227	1/1	0.96	0.12	8,8,8,8	0
56	MG	BA	3391	1/1	0.96	0.07	26,26,26,26	0
56	MG	CA	1636	1/1	0.96	0.15	36,36,36,36	0
56	MG	BA	3392	1/1	0.96	0.03	8,8,8,8	0
56	MG	BA	3162	1/1	0.96	0.07	12,12,12,12	0
56	MG	BA	3394	1/1	0.96	0.10	26,26,26,26	0
56	MG	DA	3235	1/1	0.96	0.20	39,39,39,39	0
56	MG	BA	3273	1/1	0.96	0.11	20,20,20,20	0
56	MG	BA	3164	1/1	0.96	0.06	9,9,9,9	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	AA	1764	1/1	0.96	0.08	6,6,6,6	0
56	MG	CW	101	1/1	0.96	0.10	36,36,36,36	0
56	MG	DA	3244	1/1	0.96	0.22	0,0,0,0	0
56	MG	AA	1693	1/1	0.96	0.34	43,43,43,43	0
56	MG	CW	103	1/1	0.96	0.10	45,45,45,45	0
56	MG	BA	3037	1/1	0.96	0.22	0,0,0,0	0
56	MG	BA	3402	1/1	0.96	0.07	19,19,19,19	0
56	MG	CW	106	1/1	0.96	0.06	50,50,50,50	1
56	MG	BA	3170	1/1	0.96	0.14	0,0,0,0	0
56	MG	BA	3405	1/1	0.96	0.05	11,11,11,11	0
56	MG	DA	3254	1/1	0.96	0.04	1,1,1,1	0
56	MG	AA	1741	1/1	0.96	0.04	38,38,38,38	0
56	MG	BA	3283	1/1	0.96	0.08	36,36,36,36	0
56	MG	AA	1621	1/1	0.96	0.07	14,14,14,14	0
56	MG	BA	3176	1/1	0.96	0.13	11,11,11,11	0
56	MG	BA	3046	1/1	0.96	0.18	0,0,0,0	0
56	MG	BA	3049	1/1	0.96	0.27	36,36,36,36	0
56	MG	BA	3179	1/1	0.96	0.12	28,28,28,28	0
56	MG	DA	3267	1/1	0.96	0.08	13,13,13,13	0
56	MG	AA	1632	1/1	0.96	0.20	24,24,24,24	0
56	MG	DA	3269	1/1	0.96	0.23	33,33,33,33	0
56	MG	BA	3183	1/1	0.96	0.09	18,18,18,18	0
56	MG	DA	3271	1/1	0.96	0.16	7,7,7,7	0
56	MG	BA	3294	1/1	0.96	0.06	6,6,6,6	0
56	MG	DA	3006	1/1	0.96	0.19	41,41,41,41	0
56	MG	BA	3057	1/1	0.96	0.19	17,17,17,17	0
56	MG	CA	1664	1/1	0.96	0.19	28,28,28,28	0
56	MG	DA	3009	1/1	0.96	0.16	3,3,3,3	0
56	MG	BA	3185	1/1	0.96	0.09	9,9,9,9	0
56	MG	BA	3188	1/1	0.96	0.18	13,13,13,13	0
56	MG	BA	3058	1/1	0.96	0.20	0,0,0,0	0
56	MG	BA	3191	1/1	0.96	0.19	23,23,23,23	0
56	MG	BA	3421	1/1	0.96	0.07	44,44,44,44	0
56	MG	BA	3303	1/1	0.96	0.11	15,15,15,15	0
56	MG	DA	3027	1/1	0.96	0.25	39,39,39,39	0
56	MG	AW	112	1/1	0.96	0.04	29,29,29,29	0
56	MG	DA	3288	1/1	0.96	0.07	25,25,25,25	1
56	MG	AA	1744	1/1	0.96	0.12	18,18,18,18	0
56	MG	BA	3199	1/1	0.96	0.14	9,9,9,9	0
56	MG	AA	1666	1/1	0.96	0.14	1,1,1,1	0
56	MG	BA	3312	1/1	0.96	0.19	0,0,0,0	0
56	MG	AA	1801	1/1	0.96	0.10	34,34,34,34	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3300	1/1	0.96	0.17	13,13,13,13	0
56	MG	DA	3302	1/1	0.96	0.16	11,11,11,11	0
56	MG	DA	3040	1/1	0.96	0.08	45,45,45,45	0
56	MG	DA	3041	1/1	0.96	0.15	8,8,8,8	0
56	MG	CA	1684	1/1	0.96	0.19	30,30,30,30	0
56	MG	DA	3309	1/1	0.96	0.05	6,6,6,6	0
56	MG	BA	3205	1/1	0.96	0.10	0,0,0,0	0
56	MG	DA	3311	1/1	0.96	0.17	53,53,53,53	0
56	MG	DA	3050	1/1	0.96	0.26	0,0,0,0	0
56	MG	DA	3313	1/1	0.96	0.12	35,35,35,35	1
56	MG	DA	3051	1/1	0.96	0.16	0,0,0,0	0
56	MG	CA	1688	1/1	0.96	0.22	46,46,46,46	0
56	MG	BA	3207	1/1	0.96	0.05	0,0,0,0	0
56	MG	CA	1692	1/1	0.96	0.08	19,19,19,19	0
56	MG	AA	1680	1/1	0.96	0.05	30,30,30,30	0
56	MG	AA	1803	1/1	0.96	0.08	48,48,48,48	0
56	MG	DA	3322	1/1	0.96	0.08	27,27,27,27	0
56	MG	BA	3318	1/1	0.96	0.12	30,30,30,30	0
56	MG	BA	3102	1/1	0.96	0.05	15,15,15,15	0
56	MG	DA	3326	1/1	0.96	0.25	25,25,25,25	0
56	MG	DA	3070	1/1	0.96	0.19	0,0,0,0	0
56	MG	BA	3437	1/1	0.96	0.04	4,4,4,4	0
56	MG	CA	1700	1/1	0.96	0.11	20,20,20,20	0
56	MG	CA	1703	1/1	0.96	0.10	19,19,19,19	0
56	MG	DA	3086	1/1	0.96	0.14	0,0,0,0	0
56	MG	AW	121	1/1	0.96	0.04	36,36,36,36	0
56	MG	DA	3337	1/1	0.96	0.05	4,4,4,4	0
56	MG	AA	1804	1/1	0.96	0.11	31,31,31,31	0
56	MG	CA	1708	1/1	0.96	0.11	43,43,43,43	0
56	MG	DA	3099	1/1	0.96	0.10	10,10,10,10	0
56	MG	CA	1709	1/1	0.96	0.07	9,9,9,9	0
56	MG	AA	1805	1/1	0.96	0.04	0,0,0,0	0
56	MG	AX	104	1/1	0.96	0.10	44,44,44,44	0
56	MG	BA	3443	1/1	0.96	0.07	20,20,20,20	0
56	MG	AA	1645	1/1	0.96	0.21	25,25,25,25	0
56	MG	CA	1715	1/1	0.96	0.09	55,55,55,55	0
56	MG	BA	3220	1/1	0.96	0.14	29,29,29,29	0
56	MG	AA	1601	1/1	0.96	0.07	35,35,35,35	0
56	MG	AA	1779	1/1	0.96	0.19	46,46,46,46	0
56	MG	AA	1706	1/1	0.96	0.06	10,10,10,10	0
56	MG	DA	3129	1/1	0.96	0.05	6,6,6,6	0
56	MG	DA	3132	1/1	0.96	0.06	13,13,13,13	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3359	1/1	0.96	0.14	15,15,15,15	0
56	MG	DA	3133	1/1	0.96	0.09	39,39,39,39	0
56	MG	DA	3361	1/1	0.96	0.14	5,5,5,5	0
56	MG	DA	3363	1/1	0.96	0.13	30,30,30,30	0
56	MG	DA	3135	1/1	0.96	0.22	7,7,7,7	0
56	MG	BA	3224	1/1	0.96	0.16	2,2,2,2	0
56	MG	BA	3124	1/1	0.96	0.13	17,17,17,17	0
56	MG	AA	1811	1/1	0.96	0.07	16,16,16,16	0
56	MG	BA	3453	1/1	0.96	0.05	49,49,49,49	0
56	MG	B5	101	1/1	0.96	0.12	6,6,6,6	0
56	MG	DA	3147	1/1	0.96	0.13	19,19,19,19	0
56	MG	AA	1614	1/1	0.96	0.07	19,19,19,19	0
56	MG	BA	3001	1/1	0.96	0.20	38,38,38,38	0
56	MG	BA	3136	1/1	0.96	0.13	8,8,8,8	0
56	MG	AA	1636	1/1	0.96	0.12	27,27,27,27	1
56	MG	AA	1662	1/1	0.96	0.11	31,31,31,31	0
56	MG	BA	3139	1/1	0.96	0.06	9,9,9,9	0
56	MG	DA	3154	1/1	0.96	0.17	31,31,31,31	0
56	MG	BB	208	1/1	0.96	0.04	27,27,27,27	0
56	MG	DA	3383	1/1	0.96	0.09	32,32,32,32	0
56	MG	DA	3156	1/1	0.96	0.14	36,36,36,36	0
56	MG	DA	3157	1/1	0.96	0.18	34,34,34,34	0
56	MG	DA	3388	1/1	0.96	0.13	15,15,15,15	0
56	MG	BA	3348	1/1	0.96	0.06	26,26,26,26	0
56	MG	AA	1785	1/1	0.96	0.10	32,32,32,32	0
56	MG	BB	211	1/1	0.96	0.09	40,40,40,40	1
56	MG	CA	1736	1/1	0.96	0.04	30,30,30,30	0
56	MG	BA	3006	1/1	0.96	0.18	24,24,24,24	0
56	MG	BA	3244	1/1	0.96	0.05	19,19,19,19	0
56	MG	BA	3009	1/1	0.96	0.16	20,20,20,20	0
56	MG	BA	3359	1/1	0.96	0.04	75,75,75,75	0
56	MG	BB	216	1/1	0.96	0.07	11,11,11,11	1
56	MG	BA	3250	1/1	0.96	0.09	22,22,22,22	1
56	MG	BA	3144	1/1	0.96	0.13	8,8,8,8	0
56	MG	BA	3362	1/1	0.96	0.12	58,58,58,58	0
56	MG	BA	3146	1/1	0.96	0.22	0,0,0,0	0
56	MG	DB	208	1/1	0.96	0.10	9,9,9,9	0
56	MG	DB	210	1/1	0.96	0.04	15,15,15,15	0
56	MG	DA	3176	1/1	0.96	0.17	13,13,13,13	0
56	MG	DB	212	1/1	0.96	0.04	27,27,27,27	0
56	MG	BX	101	1/1	0.96	0.10	26,26,26,26	0
56	MG	DA	3178	1/1	0.96	0.12	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3181	1/1	0.96	0.06	17,17,17,17	0
56	MG	BA	3366	1/1	0.96	0.10	27,27,27,27	0
56	MG	DA	3184	1/1	0.96	0.12	10,10,10,10	0
56	MG	AA	1689	1/1	0.96	0.21	50,50,50,50	0
56	MG	BA	3014	1/1	0.96	0.17	7,7,7,7	0
56	MG	BA	3149	1/1	0.96	0.07	10,10,10,10	0
56	MG	AA	1787	1/1	0.96	0.05	15,15,15,15	0
56	MG	AA	1674	1/1	0.96	0.18	33,33,33,33	0
56	MG	BA	3371	1/1	0.97	0.06	15,15,15,15	0
56	MG	DA	3197	1/1	0.97	0.12	13,13,13,13	0
56	MG	AA	1642	1/1	0.97	0.14	8,8,8,8	0
56	MG	BA	3008	1/1	0.97	0.20	22,22,22,22	0
56	MG	CA	1621	1/1	0.97	0.16	0,0,0,0	0
56	MG	BA	3242	1/1	0.97	0.10	4,4,4,4	0
56	MG	BA	3131	1/1	0.97	0.20	0,0,0,0	0
56	MG	AA	1691	1/1	0.97	0.06	11,11,11,11	0
56	MG	BA	3249	1/1	0.97	0.07	11,11,11,11	0
56	MG	CA	1628	1/1	0.97	0.05	35,35,35,35	0
56	MG	AA	1761	1/1	0.97	0.12	16,16,16,16	0
56	MG	AA	1609	1/1	0.97	0.25	44,44,44,44	0
56	MG	DA	3211	1/1	0.97	0.07	1,1,1,1	0
56	MG	BA	3252	1/1	0.97	0.19	25,25,25,25	0
56	MG	BA	3381	1/1	0.97	0.07	21,21,21,21	0
56	MG	AA	1644	1/1	0.97	0.05	17,17,17,17	0
56	MG	BA	3017	1/1	0.97	0.05	19,19,19,19	0
56	MG	BA	3140	1/1	0.97	0.04	10,10,10,10	0
56	MG	BA	3386	1/1	0.97	0.07	85,85,85,85	0
56	MG	AA	1655	1/1	0.97	0.08	32,32,32,32	0
56	MG	DA	3220	1/1	0.97	0.15	3,3,3,3	0
56	MG	BA	3020	1/1	0.97	0.14	1,1,1,1	0
56	MG	AA	1765	1/1	0.97	0.06	43,43,43,43	0
56	MG	DA	3224	1/1	0.97	0.20	2,2,2,2	0
56	MG	AW	107	1/1	0.97	0.04	28,28,28,28	0
56	MG	DA	3226	1/1	0.97	0.06	5,5,5,5	0
56	MG	AA	1695	1/1	0.97	0.26	13,13,13,13	1
56	MG	DA	3228	1/1	0.97	0.12	19,19,19,19	0
56	MG	BA	3262	1/1	0.97	0.08	20,20,20,20	0
56	MG	BA	3263	1/1	0.97	0.07	4,4,4,4	0
56	MG	AA	1740	1/1	0.97	0.07	40,40,40,40	0
56	MG	AA	1717	1/1	0.97	0.04	21,21,21,21	0
56	MG	DA	3233	1/1	0.97	0.07	0,0,0,0	0
56	MG	AA	1718	1/1	0.97	0.11	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3399	1/1	0.97	0.29	27,27,27,27	0
56	MG	AA	1800	1/1	0.97	0.04	36,36,36,36	0
56	MG	BA	3035	1/1	0.97	0.18	10,10,10,10	0
56	MG	AW	115	1/1	0.97	0.03	42,42,42,42	0
56	MG	DA	3239	1/1	0.97	0.15	39,39,39,39	0
56	MG	CW	113	1/1	0.97	0.07	24,24,24,24	0
56	MG	DA	3243	1/1	0.97	0.05	3,3,3,3	0
56	MG	AA	1770	1/1	0.97	0.06	16,16,16,16	0
56	MG	CA	1657	1/1	0.97	0.18	24,24,24,24	0
56	MG	BA	3039	1/1	0.97	0.17	31,31,31,31	0
56	MG	DA	3247	1/1	0.97	0.14	18,18,18,18	0
56	MG	CX	105	1/1	0.97	0.04	41,41,41,41	0
56	MG	CA	1659	1/1	0.97	0.04	9,9,9,9	0
56	MG	BA	3042	1/1	0.97	0.05	13,13,13,13	0
56	MG	AA	1635	1/1	0.97	0.13	16,16,16,16	0
56	MG	DA	3003	1/1	0.97	0.10	26,26,26,26	0
56	MG	AA	1683	1/1	0.97	0.04	17,17,17,17	0
56	MG	AA	1669	1/1	0.97	0.32	38,38,38,38	0
56	MG	BA	3161	1/1	0.97	0.06	11,11,11,11	0
56	MG	BA	3280	1/1	0.97	0.10	10,10,10,10	0
56	MG	CA	1666	1/1	0.97	0.07	41,41,41,41	0
56	MG	BA	3047	1/1	0.97	0.22	0,0,0,0	0
56	MG	DA	3011	1/1	0.97	0.16	11,11,11,11	0
56	MG	AA	1724	1/1	0.97	0.02	0,0,0,0	0
56	MG	DA	3265	1/1	0.97	0.05	0,0,0,0	0
56	MG	CA	1669	1/1	0.97	0.08	0,0,0,0	0
56	MG	DA	3017	1/1	0.97	0.12	6,6,6,6	0
56	MG	DA	3019	1/1	0.97	0.15	0,0,0,0	0
56	MG	BA	3050	1/1	0.97	0.13	0,0,0,0	0
56	MG	AA	1806	1/1	0.97	0.24	24,24,24,24	0
56	MG	DA	3023	1/1	0.97	0.18	0,0,0,0	0
56	MG	BA	3053	1/1	0.97	0.13	0,0,0,0	0
56	MG	DA	3025	1/1	0.97	0.11	6,6,6,6	0
56	MG	BA	3054	1/1	0.97	0.11	0,0,0,0	0
56	MG	BA	3055	1/1	0.97	0.03	0,0,0,0	0
56	MG	BA	3173	1/1	0.97	0.14	14,14,14,14	0
56	MG	AX	101	1/1	0.97	0.07	0,0,0,0	0
56	MG	DA	3034	1/1	0.97	0.09	7,7,7,7	0
56	MG	AA	1702	1/1	0.97	0.15	23,23,23,23	0
56	MG	BA	3059	1/1	0.97	0.11	16,16,16,16	0
56	MG	CA	1683	1/1	0.97	0.03	2,2,2,2	0
56	MG	BA	3061	1/1	0.97	0.12	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3284	1/1	0.97	0.11	12,12,12,12	0
56	MG	BA	3062	1/1	0.97	0.19	0,0,0,0	0
56	MG	DA	3287	1/1	0.97	0.19	17,17,17,17	0
56	MG	CA	1686	1/1	0.97	0.07	57,57,57,57	0
56	MG	AX	103	1/1	0.97	0.04	29,29,29,29	0
56	MG	DA	3049	1/1	0.97	0.14	0,0,0,0	0
56	MG	CA	1689	1/1	0.97	0.06	0,0,0,0	0
56	MG	CA	1690	1/1	0.97	0.06	19,19,19,19	0
56	MG	BA	3182	1/1	0.97	0.15	16,16,16,16	0
56	MG	DA	3299	1/1	0.97	0.07	0,0,0,0	0
56	MG	BA	3067	1/1	0.97	0.09	5,5,5,5	0
56	MG	DA	3301	1/1	0.97	0.14	18,18,18,18	0
56	MG	DA	3060	1/1	0.97	0.23	0,0,0,0	0
56	MG	CA	1693	1/1	0.97	0.09	18,18,18,18	1
56	MG	AA	1658	1/1	0.97	0.09	37,37,37,37	0
56	MG	DA	3065	1/1	0.97	0.14	0,0,0,0	0
56	MG	AA	1780	1/1	0.97	0.16	60,60,60,60	0
56	MG	BA	3186	1/1	0.97	0.15	25,25,25,25	0
56	MG	BA	3187	1/1	0.97	0.14	2,2,2,2	0
56	MG	BA	3071	1/1	0.97	0.15	20,20,20,20	0
56	MG	CA	1699	1/1	0.97	0.12	0,0,0,0	0
56	MG	DA	3074	1/1	0.97	0.15	11,11,11,11	0
56	MG	DA	3075	1/1	0.97	0.18	0,0,0,0	0
56	MG	DA	3081	1/1	0.97	0.14	4,4,4,4	0
56	MG	BA	3189	1/1	0.97	0.10	3,3,3,3	0
56	MG	DA	3083	1/1	0.97	0.14	13,13,13,13	0
56	MG	CA	1701	1/1	0.97	0.10	16,16,16,16	0
56	MG	CA	1702	1/1	0.97	0.07	36,36,36,36	0
56	MG	DA	3323	1/1	0.97	0.21	31,31,31,31	0
56	MG	DA	3087	1/1	0.97	0.22	23,23,23,23	0
56	MG	DA	3089	1/1	0.97	0.11	4,4,4,4	0
56	MG	AA	1628	1/1	0.97	0.10	2,2,2,2	0
56	MG	BA	3073	1/1	0.97	0.12	4,4,4,4	0
56	MG	CA	1705	1/1	0.97	0.16	22,22,22,22	0
56	MG	BA	3076	1/1	0.97	0.13	4,4,4,4	0
56	MG	CA	1707	1/1	0.97	0.12	6,6,6,6	0
56	MG	BA	3077	1/1	0.97	0.12	6,6,6,6	0
56	MG	BA	3080	1/1	0.97	0.11	0,0,0,0	0
56	MG	DA	3336	1/1	0.97	0.05	3,3,3,3	1
56	MG	DA	3109	1/1	0.97	0.17	0,0,0,0	0
56	MG	DA	3338	1/1	0.97	0.07	53,53,53,53	0
56	MG	BA	3319	1/1	0.97	0.09	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3201	1/1	0.97	0.14	21,21,21,21	0
56	MG	CA	1712	1/1	0.97	0.14	19,19,19,19	0
56	MG	BA	3202	1/1	0.97	0.06	0,0,0,0	0
56	MG	DA	3120	1/1	0.97	0.14	25,25,25,25	0
56	MG	BA	3082	1/1	0.97	0.08	22,22,22,22	0
56	MG	BA	3324	1/1	0.97	0.05	18,18,18,18	1
56	MG	DA	3124	1/1	0.97	0.14	0,0,0,0	0
56	MG	BA	3087	1/1	0.97	0.13	16,16,16,16	0
56	MG	CA	1717	1/1	0.97	0.05	16,16,16,16	0
56	MG	DA	3130	1/1	0.97	0.06	14,14,14,14	0
56	MG	DA	3131	1/1	0.97	0.15	0,0,0,0	0
56	MG	AA	1687	1/1	0.97	0.09	10,10,10,10	0
56	MG	DA	3355	1/1	0.97	0.05	7,7,7,7	0
56	MG	BA	3206	1/1	0.97	0.07	25,25,25,25	0
56	MG	DA	3134	1/1	0.97	0.14	4,4,4,4	0
56	MG	BA	3328	1/1	0.97	0.04	30,30,30,30	0
56	MG	DA	3136	1/1	0.97	0.17	3,3,3,3	0
56	MG	BA	3089	1/1	0.97	0.17	6,6,6,6	0
56	MG	DA	3362	1/1	0.97	0.14	10,10,10,10	1
56	MG	BA	3208	1/1	0.97	0.06	8,8,8,8	0
56	MG	DA	3139	1/1	0.97	0.08	28,28,28,28	0
56	MG	BA	3211	1/1	0.97	0.19	42,42,42,42	0
56	MG	DA	3366	1/1	0.97	0.08	3,3,3,3	0
56	MG	BA	3090	1/1	0.97	0.09	0,0,0,0	0
56	MG	BB	202	1/1	0.97	0.03	14,14,14,14	0
56	MG	DA	3146	1/1	0.97	0.14	22,22,22,22	0
56	MG	AA	1610	1/1	0.97	0.16	0,0,0,0	0
56	MG	BA	3334	1/1	0.97	0.05	40,40,40,40	0
56	MG	BA	3094	1/1	0.97	0.18	0,0,0,0	0
56	MG	BA	3100	1/1	0.97	0.14	3,3,3,3	0
56	MG	B2	104	1/1	0.97	0.06	34,34,34,34	0
56	MG	BA	3338	1/1	0.97	0.08	22,22,22,22	1
56	MG	BA	3340	1/1	0.97	0.06	28,28,28,28	0
56	MG	AA	1732	1/1	0.97	0.07	3,3,3,3	0
56	MG	BA	3342	1/1	0.97	0.13	52,52,52,52	1
56	MG	BA	3104	1/1	0.97	0.14	12,12,12,12	0
56	MG	BA	3105	1/1	0.97	0.14	13,13,13,13	0
56	MG	BA	3106	1/1	0.97	0.13	0,0,0,0	0
56	MG	DA	3385	1/1	0.97	0.04	29,29,29,29	0
56	MG	AA	1754	1/1	0.97	0.10	16,16,16,16	0
56	MG	AA	1639	1/1	0.97	0.17	30,30,30,30	0
56	MG	CA	1740	1/1	0.97	0.11	19,19,19,19	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	DA	3390	1/1	0.97	0.10	73,73,73,73	0
56	MG	BA	3110	1/1	0.97	0.11	0,0,0,0	0
56	MG	DA	3164	1/1	0.97	0.04	8,8,8,8	0
56	MG	B7	101	1/1	0.97	0.10	7,7,7,7	0
56	MG	BF	301	1/1	0.97	0.14	17,17,17,17	0
56	MG	BA	3351	1/1	0.97	0.15	78,78,78,78	0
56	MG	CA	1746	1/1	0.97	0.18	18,18,18,18	0
56	MG	DA	3397	1/1	0.97	0.06	31,31,31,31	0
56	MG	CA	1748	1/1	0.97	0.10	7,7,7,7	0
56	MG	B7	102	1/1	0.97	0.08	11,11,11,11	1
56	MG	BV	201	1/1	0.97	0.15	23,23,23,23	0
56	MG	BA	3113	1/1	0.97	0.14	14,14,14,14	0
56	MG	DA	3174	1/1	0.97	0.15	26,26,26,26	0
56	MG	CA	1753	1/1	0.97	0.09	33,33,33,33	0
56	MG	BA	3228	1/1	0.97	0.14	46,46,46,46	0
56	MG	DB	209	1/1	0.97	0.08	20,20,20,20	0
56	MG	AA	1756	1/1	0.97	0.12	15,15,15,15	0
56	MG	DA	3180	1/1	0.97	0.18	0,0,0,0	0
56	MG	BA	3116	1/1	0.97	0.15	12,12,12,12	0
56	MG	AV	103	1/1	0.97	0.13	28,28,28,28	0
56	MG	BA	3232	1/1	0.97	0.15	23,23,23,23	0
56	MG	DF	301	1/1	0.97	0.13	29,29,29,29	0
56	MG	BA	3003	1/1	0.97	0.12	28,28,28,28	0
56	MG	BA	3365	1/1	0.97	0.24	60,60,60,60	0
56	MG	BA	3122	1/1	0.97	0.09	8,8,8,8	0
56	MG	CA	1612	1/1	0.97	0.07	17,17,17,17	0
56	MG	AV	104	1/1	0.97	0.08	27,27,27,27	0
56	MG	AV	105	1/1	0.97	0.14	12,12,12,12	0
56	MG	DA	3192	1/1	0.97	0.17	17,17,17,17	0
56	MG	BA	3370	1/1	0.97	0.12	28,28,28,28	1
56	MG	BA	3127	1/1	0.98	0.13	8,8,8,8	0
56	MG	BA	3274	1/1	0.98	0.09	0,0,0,0	0
56	MG	BA	3195	1/1	0.98	0.16	16,16,16,16	0
56	MG	AA	1771	1/1	0.98	0.07	6,6,6,6	0
56	MG	DA	3223	1/1	0.98	0.17	11,11,11,11	0
56	MG	BA	3198	1/1	0.98	0.10	0,0,0,0	0
56	MG	DA	3030	1/1	0.98	0.12	0,0,0,0	0
56	MG	BB	219	1/1	0.98	0.09	24,24,24,24	0
56	MG	BE	301	1/1	0.98	0.12	8,8,8,8	0
56	MG	DA	3035	1/1	0.98	0.10	0,0,0,0	0
56	MG	AA	1637	1/1	0.98	0.12	0,0,0,0	0
56	MG	BA	3200	1/1	0.98	0.02	5,5,5,5	1

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3065	1/1	0.98	0.09	1,1,1,1	0
56	MG	DA	3039	1/1	0.98	0.08	10,10,10,10	0
56	MG	BO	201	1/1	0.98	0.16	13,13,13,13	0
56	MG	BA	3134	1/1	0.98	0.09	1,1,1,1	0
56	MG	AA	1625	1/1	0.98	0.10	3,3,3,3	0
56	MG	DA	3043	1/1	0.98	0.14	2,2,2,2	0
56	MG	DA	3044	1/1	0.98	0.07	15,15,15,15	0
56	MG	DA	3045	1/1	0.98	0.09	1,1,1,1	0
56	MG	DA	3047	1/1	0.98	0.14	0,0,0,0	0
56	MG	BA	3068	1/1	0.98	0.12	0,0,0,0	0
56	MG	DA	3241	1/1	0.98	0.14	12,12,12,12	0
56	MG	DA	3242	1/1	0.98	0.18	9,9,9,9	0
56	MG	AA	1796	1/1	0.98	0.05	10,10,10,10	1
56	MG	AA	1649	1/1	0.98	0.13	0,0,0,0	0
56	MG	AA	1605	1/1	0.98	0.02	16,16,16,16	0
56	MG	DA	3052	1/1	0.98	0.17	0,0,0,0	0
56	MG	DA	3054	1/1	0.98	0.09	5,5,5,5	0
56	MG	DA	3055	1/1	0.98	0.15	0,0,0,0	0
56	MG	DA	3056	1/1	0.98	0.14	9,9,9,9	0
56	MG	BA	3024	1/1	0.98	0.15	0,0,0,0	0
56	MG	CA	1607	1/1	0.98	0.17	15,15,15,15	0
56	MG	DA	3059	1/1	0.98	0.17	0,0,0,0	0
56	MG	BA	3290	1/1	0.98	0.06	2,2,2,2	0
56	MG	BA	3210	1/1	0.98	0.10	11,11,11,11	0
56	MG	BA	3292	1/1	0.98	0.07	14,14,14,14	0
56	MG	DA	3257	1/1	0.98	0.12	27,27,27,27	0
56	MG	DA	3063	1/1	0.98	0.13	0,0,0,0	0
56	MG	BA	3026	1/1	0.98	0.17	0,0,0,0	0
56	MG	DA	3066	1/1	0.98	0.15	0,0,0,0	0
56	MG	CA	1613	1/1	0.98	0.20	4,4,4,4	0
56	MG	CA	1614	1/1	0.98	0.10	20,20,20,20	0
56	MG	DA	3264	1/1	0.98	0.08	11,11,11,11	0
56	MG	BA	3389	1/1	0.98	0.07	0,0,0,0	0
56	MG	DA	3266	1/1	0.98	0.06	11,11,11,11	0
56	MG	BA	3075	1/1	0.98	0.15	0,0,0,0	0
56	MG	BA	3295	1/1	0.98	0.13	16,16,16,16	0
56	MG	BA	3027	1/1	0.98	0.06	8,8,8,8	0
56	MG	BA	3297	1/1	0.98	0.16	7,7,7,7	0
56	MG	DA	3079	1/1	0.98	0.12	13,13,13,13	0
56	MG	AA	1682	1/1	0.98	0.13	17,17,17,17	0
56	MG	BA	3145	1/1	0.98	0.20	0,0,0,0	0
56	MG	BA	3078	1/1	0.98	0.17	11,11,11,11	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	CA	1623	1/1	0.98	0.05	9,9,9,9	0
56	MG	CA	1624	1/1	0.98	0.03	16,16,16,16	0
56	MG	BA	3301	1/1	0.98	0.11	19,19,19,19	0
56	MG	DA	3088	1/1	0.98	0.13	4,4,4,4	0
56	MG	AA	1778	1/1	0.98	0.09	0,0,0,0	0
56	MG	DA	3090	1/1	0.98	0.09	0,0,0,0	0
56	MG	DA	3091	1/1	0.98	0.12	0,0,0,0	0
56	MG	BA	3030	1/1	0.98	0.10	0,0,0,0	0
56	MG	DA	3094	1/1	0.98	0.09	10,10,10,10	0
56	MG	DA	3095	1/1	0.98	0.20	0,0,0,0	0
56	MG	CA	1743	1/1	0.98	0.13	1,1,1,1	0
56	MG	DA	3097	1/1	0.98	0.11	12,12,12,12	0
56	MG	BA	3304	1/1	0.98	0.06	35,35,35,35	0
56	MG	DA	3289	1/1	0.98	0.10	18,18,18,18	0
56	MG	DA	3290	1/1	0.98	0.06	0,0,0,0	0
56	MG	BA	3083	1/1	0.98	0.12	20,20,20,20	0
56	MG	BA	3085	1/1	0.98	0.14	0,0,0,0	0
56	MG	DA	3295	1/1	0.98	0.03	6,6,6,6	0
56	MG	CA	1747	1/1	0.98	0.07	28,28,28,28	0
56	MG	DA	3103	1/1	0.98	0.14	9,9,9,9	0
56	MG	DA	3104	1/1	0.98	0.09	9,9,9,9	0
56	MG	DA	3105	1/1	0.98	0.12	6,6,6,6	0
56	MG	CA	1632	1/1	0.98	0.03	11,11,11,11	0
56	MG	CA	1749	1/1	0.98	0.04	7,7,7,7	0
56	MG	DA	3110	1/1	0.98	0.14	1,1,1,1	0
56	MG	DA	3303	1/1	0.98	0.07	11,11,11,11	0
56	MG	BA	3404	1/1	0.98	0.20	17,17,17,17	0
56	MG	AA	1640	1/1	0.98	0.18	18,18,18,18	0
56	MG	DA	3114	1/1	0.98	0.05	8,8,8,8	0
56	MG	DA	3308	1/1	0.98	0.03	20,20,20,20	0
56	MG	AA	1641	1/1	0.98	0.08	0,0,0,0	0
56	MG	BA	3310	1/1	0.98	0.18	22,22,22,22	0
56	MG	DA	3117	1/1	0.98	0.07	1,1,1,1	0
56	MG	DA	3119	1/1	0.98	0.09	7,7,7,7	0
56	MG	CA	1754	1/1	0.98	0.11	6,6,6,6	0
56	MG	DA	3121	1/1	0.98	0.07	12,12,12,12	0
56	MG	DA	3315	1/1	0.98	0.06	4,4,4,4	0
56	MG	BA	3311	1/1	0.98	0.05	2,2,2,2	0
56	MG	DA	3317	1/1	0.98	0.03	11,11,11,11	1
56	MG	AW	104	1/1	0.98	0.07	28,28,28,28	0
56	MG	AA	1759	1/1	0.98	0.07	5,5,5,5	1
56	MG	DA	3125	1/1	0.98	0.12	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	DA	3126	1/1	0.98	0.09	29,29,29,29	0
56	MG	BA	3225	1/1	0.98	0.14	0,0,0,0	0
56	MG	AA	1722	1/1	0.98	0.12	20,20,20,20	0
56	MG	BA	3092	1/1	0.98	0.12	0,0,0,0	0
56	MG	CA	1761	1/1	0.98	0.26	26,26,26,26	0
56	MG	AA	1622	1/1	0.98	0.09	8,8,8,8	0
56	MG	BA	3159	1/1	0.98	0.12	12,12,12,12	0
56	MG	BA	3098	1/1	0.98	0.07	5,5,5,5	0
56	MG	BA	3099	1/1	0.98	0.18	1,1,1,1	0
56	MG	DA	3331	1/1	0.98	0.15	42,42,42,42	0
56	MG	BA	3040	1/1	0.98	0.07	22,22,22,22	0
56	MG	BA	3163	1/1	0.98	0.03	17,17,17,17	0
56	MG	BA	3101	1/1	0.98	0.07	3,3,3,3	0
56	MG	BA	3235	1/1	0.98	0.10	7,7,7,7	0
56	MG	DA	3140	1/1	0.98	0.12	22,22,22,22	0
56	MG	DA	3141	1/1	0.98	0.10	0,0,0,0	0
56	MG	CA	1770	1/1	0.98	0.11	14,14,14,14	0
56	MG	DA	3143	1/1	0.98	0.18	36,36,36,36	0
56	MG	CA	1771	1/1	0.98	0.10	28,28,28,28	0
56	MG	BA	3236	1/1	0.98	0.05	3,3,3,3	0
56	MG	DA	3343	1/1	0.98	0.12	4,4,4,4	0
56	MG	CA	1773	1/1	0.98	0.05	13,13,13,13	0
56	MG	DA	3345	1/1	0.98	0.20	17,17,17,17	0
56	MG	CA	1774	1/1	0.98	0.18	21,21,21,21	0
56	MG	BA	3423	1/1	0.98	0.07	21,21,21,21	0
56	MG	CA	1653	1/1	0.98	0.08	60,60,60,60	0
56	MG	CA	1777	1/1	0.98	0.14	0,0,0,0	0
56	MG	CA	1778	1/1	0.98	0.10	3,3,3,3	0
56	MG	CA	1654	1/1	0.98	0.14	41,41,41,41	0
56	MG	CA	1655	1/1	0.98	0.14	0,0,0,0	0
56	MG	BA	3165	1/1	0.98	0.16	0,0,0,0	0
56	MG	BA	3041	1/1	0.98	0.12	0,0,0,0	0
56	MG	DA	3356	1/1	0.98	0.05	12,12,12,12	0
56	MG	CA	1783	1/1	0.98	0.18	13,13,13,13	0
56	MG	CA	1784	1/1	0.98	0.06	15,15,15,15	0
56	MG	DA	3158	1/1	0.98	0.12	5,5,5,5	0
56	MG	CA	1785	1/1	0.98	0.11	44,44,44,44	0
56	MG	AA	1613	1/1	0.98	0.17	2,2,2,2	0
56	MG	BA	3427	1/1	0.98	0.04	12,12,12,12	0
56	MG	AA	1656	1/1	0.98	0.09	12,12,12,12	0
56	MG	AA	1726	1/1	0.98	0.13	12,12,12,12	0
56	MG	BA	3243	1/1	0.98	0.23	18,18,18,18	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å <sup>2</sup> )	Q<0.9
56	MG	BA	3171	1/1	0.98	0.10	0,0,0,0	1
56	MG	DA	3166	1/1	0.98	0.03	0,0,0,0	0
56	MG	AW	111	1/1	0.98	0.04	32,32,32,32	1
56	MG	BA	3246	1/1	0.98	0.04	15,15,15,15	0
56	MG	DA	3370	1/1	0.98	0.11	22,22,22,22	0
56	MG	BA	3247	1/1	0.98	0.09	0,0,0,0	0
56	MG	BA	3248	1/1	0.98	0.14	33,33,33,33	0
56	MG	AA	1611	1/1	0.98	0.10	18,18,18,18	0
56	MG	BA	3339	1/1	0.98	0.03	0,0,0,0	1
56	MG	BA	3108	1/1	0.98	0.03	0,0,0,0	0
56	MG	BA	3175	1/1	0.98	0.12	0,0,0,0	0
56	MG	DA	3378	1/1	0.98	0.12	8,8,8,8	0
56	MG	DA	3175	1/1	0.98	0.15	30,30,30,30	0
56	MG	BA	3440	1/1	0.98	0.04	33,33,33,33	0
56	MG	AA	1746	1/1	0.98	0.03	11,11,11,11	0
56	MG	AW	114	1/1	0.98	0.03	25,25,25,25	1
56	MG	DA	3179	1/1	0.98	0.09	10,10,10,10	0
56	MG	AA	1630	1/1	0.98	0.07	13,13,13,13	0
56	MG	BA	3444	1/1	0.98	0.06	7,7,7,7	0
56	MG	BA	3052	1/1	0.98	0.23	0,0,0,0	0
56	MG	CA	1678	1/1	0.98	0.10	0,0,0,0	0
56	MG	CA	1679	1/1	0.98	0.06	4,4,4,4	0
56	MG	BA	3180	1/1	0.98	0.13	33,33,33,33	0
56	MG	CA	1681	1/1	0.98	0.06	40,40,40,40	0
56	MG	AA	1659	1/1	0.98	0.04	14,14,14,14	1
56	MG	AA	1676	1/1	0.98	0.03	7,7,7,7	0
56	MG	DA	3190	1/1	0.98	0.03	2,2,2,2	0
56	MG	BA	3115	1/1	0.98	0.10	0,0,0,0	0
56	MG	BA	3350	1/1	0.98	0.11	32,32,32,32	0
56	MG	D5	101	1/1	0.98	0.09	7,7,7,7	0
56	MG	DA	3398	1/1	0.98	0.13	7,7,7,7	0
56	MG	BA	3010	1/1	0.98	0.05	30,30,30,30	0
56	MG	DA	3196	1/1	0.98	0.17	18,18,18,18	0
56	MG	BA	3352	1/1	0.98	0.05	30,30,30,30	1
56	MG	BA	3117	1/1	0.98	0.16	3,3,3,3	0
56	MG	BA	3011	1/1	0.98	0.13	0,0,0,0	0
56	MG	DB	206	1/1	0.98	0.06	0,0,0,0	1
56	MG	DA	3201	1/1	0.98	0.14	7,7,7,7	0
56	MG	BA	3355	1/1	0.98	0.14	20,20,20,20	0
56	MG	BA	3356	1/1	0.98	0.05	37,37,37,37	0
56	MG	BA	3357	1/1	0.98	0.04	19,19,19,19	0
56	MG	BA	3264	1/1	0.98	0.18	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	AA	1646	1/1	0.98	0.17	3,3,3,3	0
56	MG	DD	301	1/1	0.98	0.12	1,1,1,1	0
56	MG	AW	119	1/1	0.98	0.02	19,19,19,19	0
56	MG	BA	3267	1/1	0.98	0.07	43,43,43,43	0
56	MG	BA	3060	1/1	0.98	0.18	0,0,0,0	0
56	MG	AA	1815	1/1	0.98	0.14	36,36,36,36	0
56	MG	DA	3018	1/1	0.98	0.11	3,3,3,3	0
56	MG	BA	3126	1/1	0.98	0.04	1,1,1,1	0
56	MG	BA	3192	1/1	0.98	0.11	0,0,0,0	0
56	MG	DA	3021	1/1	0.98	0.16	0,0,0,0	0
56	MG	DA	3216	1/1	0.98	0.21	34,34,34,34	0
56	MG	BA	3193	1/1	0.98	0.12	8,8,8,8	0
56	MG	BA	3368	1/1	0.98	0.10	32,32,32,32	0
58	ZN	AD	301	1/1	0.98	0.11	21,21,21,21	0
56	MG	D5	102	1/1	0.99	0.02	6,6,6,6	1
56	MG	BA	3034	1/1	0.99	0.11	0,0,0,0	0
56	MG	DA	3072	1/1	0.99	0.06	0,0,0,0	0
56	MG	DA	3073	1/1	0.99	0.09	0,0,0,0	0
56	MG	B2	105	1/1	0.99	0.05	0,0,0,0	0
56	MG	BA	3063	1/1	0.99	0.17	0,0,0,0	0
56	MG	DA	3076	1/1	0.99	0.13	0,0,0,0	0
56	MG	DA	3077	1/1	0.99	0.11	0,0,0,0	0
56	MG	DA	3078	1/1	0.99	0.15	2,2,2,2	0
56	MG	BA	3321	1/1	0.99	0.06	4,4,4,4	0
56	MG	DA	3080	1/1	0.99	0.14	0,0,0,0	0
56	MG	DA	3005	1/1	0.99	0.04	13,13,13,13	0
56	MG	BA	3013	1/1	0.99	0.08	0,0,0,0	0
56	MG	AA	1774	1/1	0.99	0.02	9,9,9,9	0
56	MG	BA	3066	1/1	0.99	0.07	0,0,0,0	0
56	MG	DA	3252	1/1	0.99	0.02	0,0,0,0	1
56	MG	DA	3085	1/1	0.99	0.15	0,0,0,0	0
56	MG	BA	3038	1/1	0.99	0.15	10,10,10,10	0
56	MG	BA	3015	1/1	0.99	0.08	0,0,0,0	0
56	MG	AA	1728	1/1	0.99	0.05	2,2,2,2	0
56	MG	AA	1699	1/1	0.99	0.10	0,0,0,0	0
56	MG	DA	3013	1/1	0.99	0.09	1,1,1,1	0
56	MG	DA	3259	1/1	0.99	0.07	14,14,14,14	0
56	MG	DA	3014	1/1	0.99	0.16	4,4,4,4	0
56	MG	AA	1700	1/1	0.99	0.06	31,31,31,31	0
56	MG	BA	3281	1/1	0.99	0.09	0,0,0,0	0
56	MG	CA	1605	1/1	0.99	0.09	10,10,10,10	0
56	MG	BA	3019	1/1	0.99	0.16	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	BA	3151	1/1	0.99	0.07	2,2,2,2	0
56	MG	BA	3284	1/1	0.99	0.13	14,14,14,14	0
56	MG	BA	3238	1/1	0.99	0.14	0,0,0,0	0
56	MG	BA	3385	1/1	0.99	0.04	12,12,12,12	0
56	MG	DA	3182	1/1	0.99	0.08	5,5,5,5	0
56	MG	AV	101	1/1	0.99	0.03	5,5,5,5	0
56	MG	DA	3102	1/1	0.99	0.16	0,0,0,0	0
56	MG	AA	1720	1/1	0.99	0.12	29,29,29,29	0
56	MG	DA	3026	1/1	0.99	0.19	0,0,0,0	0
56	MG	AA	1607	1/1	0.99	0.04	12,12,12,12	0
56	MG	BA	3048	1/1	0.99	0.13	0,0,0,0	0
56	MG	DA	3107	1/1	0.99	0.15	12,12,12,12	0
56	MG	DA	3108	1/1	0.99	0.14	0,0,0,0	0
56	MG	DA	3372	1/1	0.99	0.02	12,12,12,12	0
56	MG	AA	1664	1/1	0.99	0.11	0,0,0,0	0
56	MG	AA	1675	1/1	0.99	0.13	4,4,4,4	0
56	MG	BA	3081	1/1	0.99	0.08	10,10,10,10	0
56	MG	DA	3194	1/1	0.99	0.06	0,0,0,0	1
56	MG	DA	3033	1/1	0.99	0.05	17,17,17,17	1
56	MG	DA	3113	1/1	0.99	0.12	11,11,11,11	0
56	MG	BA	3025	1/1	0.99	0.11	0,0,0,0	0
56	MG	DA	3198	1/1	0.99	0.09	10,10,10,10	0
56	MG	DA	3286	1/1	0.99	0.03	0,0,0,0	0
56	MG	BA	3118	1/1	0.99	0.08	0,0,0,0	0
56	MG	AA	1757	1/1	0.99	0.05	0,0,0,0	0
56	MG	BA	3084	1/1	0.99	0.14	0,0,0,0	0
56	MG	DA	3118	1/1	0.99	0.09	6,6,6,6	0
56	MG	DA	3386	1/1	0.99	0.24	0,0,0,0	0
56	MG	B1	101	1/1	0.99	0.07	0,0,0,0	0
56	MG	BA	3398	1/1	0.99	0.06	9,9,9,9	1
56	MG	DA	3293	1/1	0.99	0.05	2,2,2,2	0
56	MG	DA	3294	1/1	0.99	0.15	0,0,0,0	0
56	MG	BA	3123	1/1	0.99	0.11	6,6,6,6	0
56	MG	CM	201	1/1	0.99	0.05	21,21,21,21	0
56	MG	BA	3086	1/1	0.99	0.09	2,2,2,2	0
56	MG	BA	3209	1/1	0.99	0.08	15,15,15,15	0
56	MG	CA	1682	1/1	0.99	0.05	32,32,32,32	0
56	MG	DA	3210	1/1	0.99	0.09	0,0,0,0	0
56	MG	BA	3007	1/1	0.99	0.27	0,0,0,0	0
56	MG	DA	3127	1/1	0.99	0.07	0,0,0,0	0
56	MG	DA	3046	1/1	0.99	0.21	0,0,0,0	0
56	MG	AA	1704	1/1	0.99	0.03	0,0,0,0	0

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Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors( $\text{\AA}^2$ )	Q<0.9
56	MG	CA	1630	1/1	0.99	0.09	0,0,0,0	0
56	MG	BA	3056	1/1	0.99	0.15	0,0,0,0	0
56	MG	CA	1687	1/1	0.99	0.02	0,0,0,0	0
56	MG	BA	3169	1/1	0.99	0.10	8,8,8,8	0
56	MG	AA	1652	1/1	0.99	0.04	7,7,7,7	0
56	MG	DA	3053	1/1	0.99	0.04	24,24,24,24	0
56	MG	BA	3031	1/1	0.99	0.12	11,11,11,11	0
56	MG	BA	3307	1/1	0.99	0.05	7,7,7,7	0
56	MG	CW	108	1/1	0.99	0.06	10,10,10,10	1
56	MG	BA	3260	1/1	0.99	0.02	23,23,23,23	0
56	MG	BA	3130	1/1	0.99	0.06	4,4,4,4	0
56	MG	AA	1672	1/1	0.99	0.11	0,0,0,0	0
56	MG	BA	3132	1/1	0.99	0.11	2,2,2,2	0
56	MG	BA	3133	1/1	0.99	0.07	11,11,11,11	0
56	MG	CX	101	1/1	0.99	0.07	3,3,3,3	0
56	MG	BA	3093	1/1	0.99	0.11	15,15,15,15	0
56	MG	DA	3064	1/1	0.99	0.13	0,0,0,0	0
56	MG	BA	3363	1/1	0.99	0.07	8,8,8,8	0
56	MG	AA	1707	1/1	0.99	0.08	2,2,2,2	0
56	MG	BA	3095	1/1	0.99	0.10	0,0,0,0	0
56	MG	BA	3096	1/1	0.99	0.09	0,0,0,0	0
56	MG	DA	3327	1/1	0.99	0.03	6,6,6,6	0
56	MG	BA	3097	1/1	0.99	0.09	2,2,2,2	0
58	ZN	AN	101	1/1	0.99	0.04	50,50,50,50	0
58	ZN	CD	301	1/1	0.99	0.12	24,24,24,24	0
56	MG	BA	3045	1/1	1.00	0.07	0,0,0,0	0
56	MG	DA	3306	1/1	1.00	0.05	6,6,6,6	0
56	MG	AA	1696	1/1	1.00	0.08	0,0,0,0	0
56	MG	BA	3196	1/1	1.00	0.02	0,0,0,0	0
56	MG	BA	3074	1/1	1.00	0.12	10,10,10,10	0
56	MG	BA	3079	1/1	1.00	0.09	0,0,0,0	0
56	MG	DA	3335	1/1	1.00	0.03	10,10,10,10	0
56	MG	AA	1711	1/1	1.00	0.04	8,8,8,8	0
56	MG	DA	3031	1/1	1.00	0.04	0,0,0,0	0
56	MG	DA	3092	1/1	1.00	0.05	4,4,4,4	0
56	MG	BA	3121	1/1	1.00	0.09	2,2,2,2	0
56	MG	CA	1608	1/1	1.00	0.06	0,0,0,0	0
56	MG	DA	3354	1/1	1.00	0.02	2,2,2,2	0
56	MG	DA	3015	1/1	1.00	0.07	0,0,0,0	0
58	ZN	CN	101	1/1	1.00	0.01	53,53,53,53	0

## 5.5 Other polymers [i](#)

There are no such residues in this entry.