Full wwPDB EM Validation Report

Mar 9, 2026 – 05:26 AM UTC

PDB ID	:	9G6K / pdb_00009g6k
EMDB ID	:	EMD-51104
Title	:	LSU structure derived from the LSU sample of the mitoribosome from T. gondii.
Authors	:	Rocha, R.E.O.; Barua, S.; Boissier, F.; Nguyen, T.T.; Hashem, Y.
Deposited on	:	2024-07-18
Resolution	:	2.89 Å(reported)
Based on initial model	:	.

This is a Full wwPDB EM Validation Report for a publicly released PDB entry.

We welcome your comments at *validation@mail.wwpdb.org*
A user guide is available at
https://www.wwpdb.org/validation/2017/EMValidationReportHelp
with specific help available everywhere you see the (i) symbol.

The types of validation reports are described at
http://www.wwpdb.org/validation/2017/FAQs#types.

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

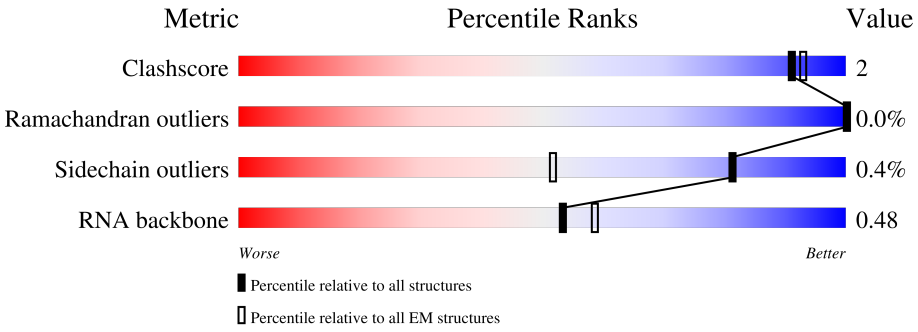
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh & Huber (2001)
Ideal geometry (DNA, RNA)	:	Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP)	:	2.49

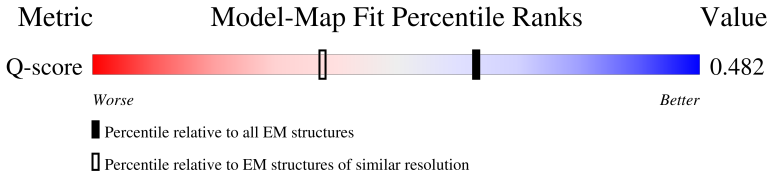
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:
ELECTRON MICROSCOPY

The reported resolution of this entry is 2.89 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)	EM structures (#Entries)	Similar EM resolution (#Entries, resolution range(Å))
Clashscore	229148	23984	-
Ramachandran outliers	224038	23583	-
Sidechain outliers	223484	23102	-
RNA backbone	8273	3508	-
Q-score	-	25397	12148 (2.39 - 3.39)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the map. The red, orange, yellow and green segments of the bar indicate the fraction of residues that contain outliers for >=3, 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions <=5% The upper red bar (where present) indicates the fraction of residues that have poor fit to the EM map (all-atom inclusion < 40%). The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	L0	405	5% 52% 35% • 13%
2	L1	92	11% 67% 30% •
3	L2	270	9% 76% 23% •

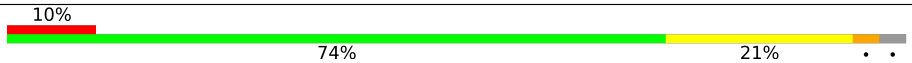
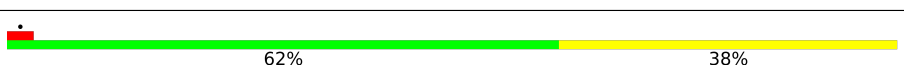
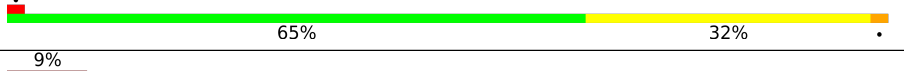
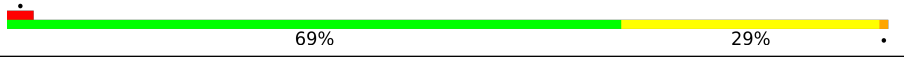
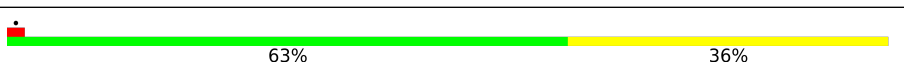
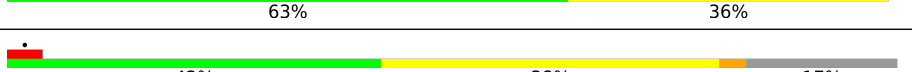
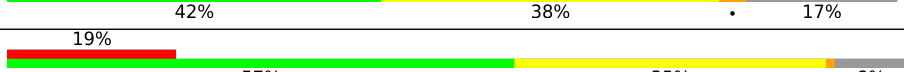
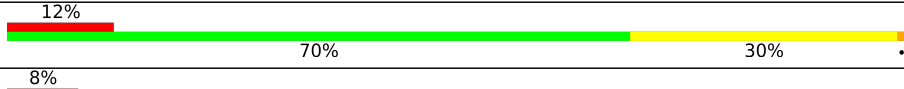
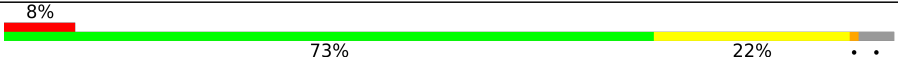
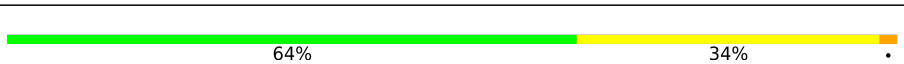
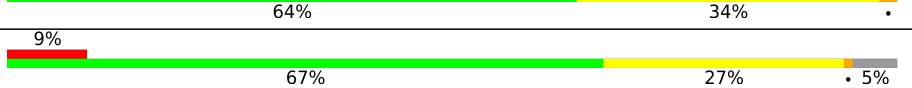
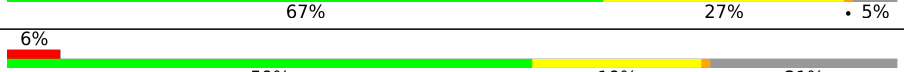
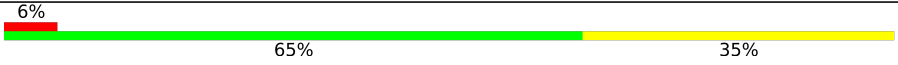
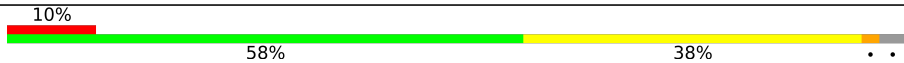
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
4	L3	331	60% 22% 18%
5	L4	430	80% 18%
6	L5	30	17% 47% 53%
7	L6	57	21% 89% 11%
8	L7	114	9% 66% 31%
9	L8	246	66% 30%
10	L9	475	89% 11%
11	LA	217	64% 33%
12	LB	121	55% 40% 5%
13	LC	527	5% 46% 25% 28%
14	LD	282	5% 54% 25% 20%
15	LE	338	7% 64% 14% 21%
16	LF	88	80% 17%
17	LG	148	79% 19%
18	LH	87	11% 72% 28%
19	LI	79	8% 62% 37%
20	LJ	443	56% 40%
21	LK	219	73% 26%
22	LL	855	8% 58% 15% 26%
23	LM	177	26% 67% 33%
24	LN	113	47% 50%
25	LO	344	9% 65% 34%
26	LP	230	66% 20% 12%
27	LQ	70	44% 54%
28	LR	132	7% 43% 20% 35%

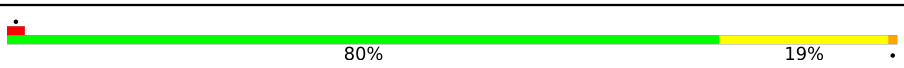
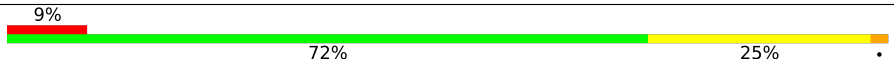
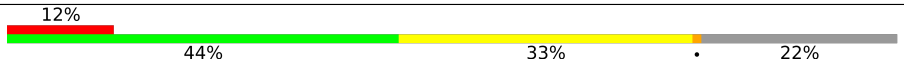
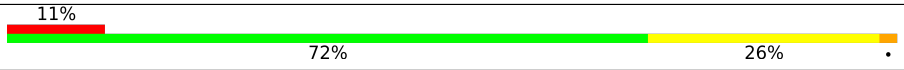
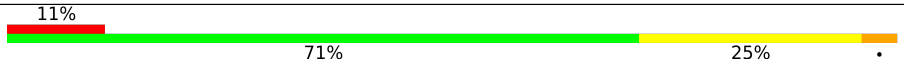
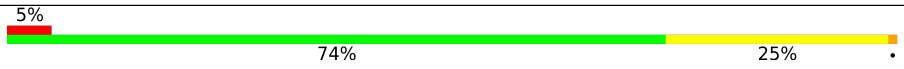
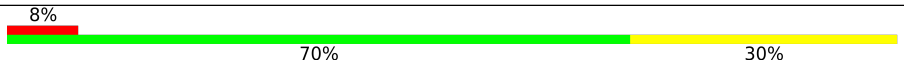
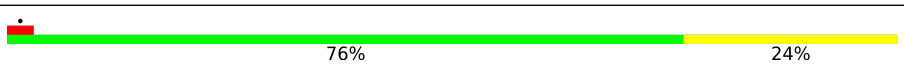
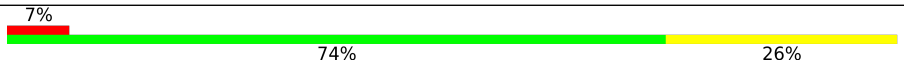
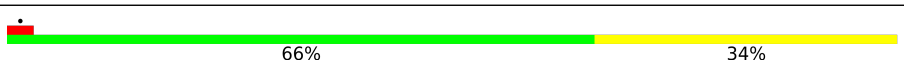
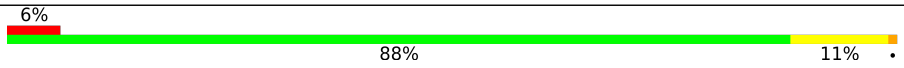
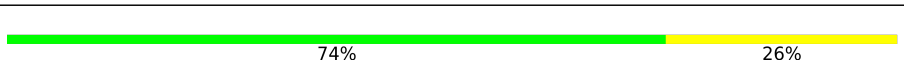
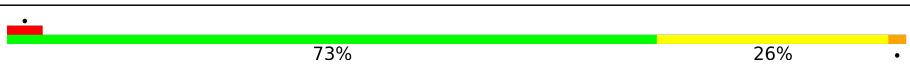
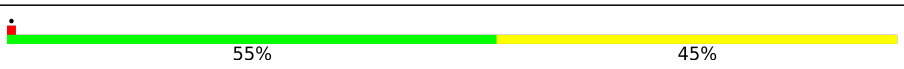
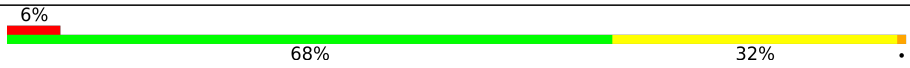
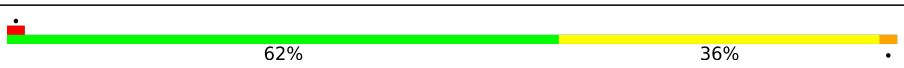
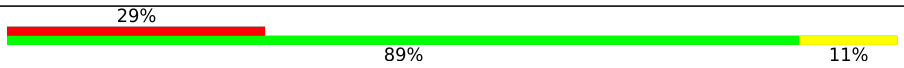
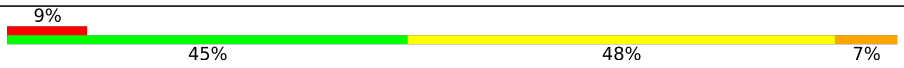
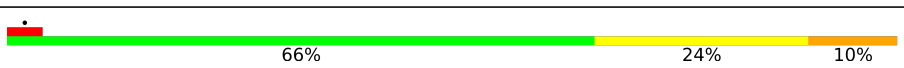
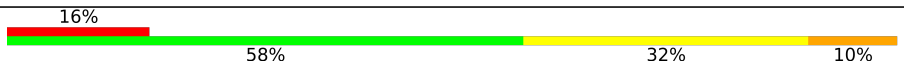
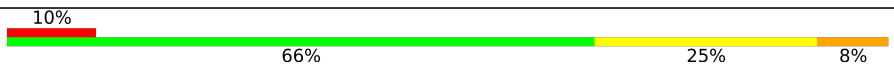
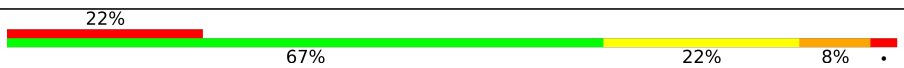
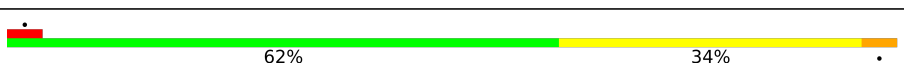
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
29	LS	228	
30	LT	117	
31	LU	79	
32	LV	880	
33	LW	306	
34	LX	92	
35	LY	346	
36	LZ	197	
37	La	214	
38	Lb	733	
39	Lc	512	
40	Ld	437	
41	Le	376	
42	Lf	226	
43	Lg	214	
44	Lh	464	
45	Li	602	
46	Lj	122	
47	Lk	184	
48	Ll	190	
49	Lm	189	
50	Ln	60	
51	Lo	283	
52	Lp	368	
53	Lq	787	

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
54	Lr	281	
55	Ls	311	
56	Lt	240	
57	Lu	232	
58	Lv	112	
59	Lw	179	
60	Lx	98	
61	Ly	404	
62	Lz	120	
63	UA	85	
64	UB	174	
65	UC	105	
66	UD	35	
67	UE	113	
68	UF	78	
69	UG	158	
70	UH	47	
71	UI	35	
72	l0	44	
73	l1	50	
74	l2	31	
75	l3	59	
76	l4	94	
77	l5	36	
78	l6	50	

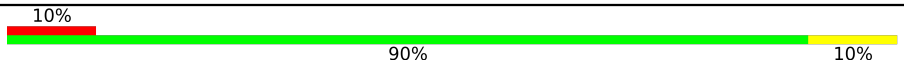
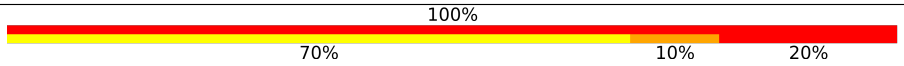
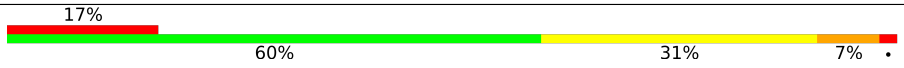
Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
79	l7	69	6% 58% 38%
80	l8	33	12% 73% 27%
81	l9	91	54% 36% 10%
82	lA	65	5% 62% 28% 9%
83	lB	45	56% 31% 13%
84	lC	27	15% 67% 19% 15%
85	lD	16	19% 69% 25% 6%
86	lE	29	7% 45% 45% 10%
87	lF	88	14% 64% 26% 8%
88	lG	26	73% 27%
89	lH	27	7% 63% 30% 7%
90	lI	48	19% 65% 27% 6%
91	lJ	279	45% 58% 31% 10%
92	lK	38	16% 63% 29% 8%
93	lL	91	64% 31% 5%
94	lM	194	28% 66% 22% 10%
95	lN	62	10% 71% 23% 6%
96	lO	180	6% 59% 34% 6%
97	lP	29	45% 48% 7%
98	lQ	37	8% 76% 24%
99	lR	28	7% 86% 14%
100	lS	7	29% 86% 14%
101	lT	14	7% 79% 21%
101	lW	14	86% 14%
102	lU	15	27% 67% 20% 13%

Continued on next page...

Continued from previous page...

Mol	Chain	Length	Quality of chain
103	lV	10	
103	lY	10	
104	lX	58	

2 Entry composition

There are 104 unique types of molecules in this entry. The entry contains 175729 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, 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 protein called RRM domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
1	L0	353	2984	1911	557	503	13	0	0

- Molecule 2 is a protein called Large ribosomal subunit protein mL54.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
2	L1	92	768	502	130	134	2	0	0

- Molecule 3 is a protein called mL162.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
3	L2	270	2111	1329	384	392	6	0	0

- Molecule 4 is a protein called Ribosomal l25 family protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
4	L3	272	2196	1411	389	383	13	0	0

- Molecule 5 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
5	L4	424	3430	2184	620	609	17	0	0

- Molecule 6 is a protein called mL183.

Mol	Chain	Residues	Atoms					AltConf	Trace
			Total	C	N	O	S		
6	L5	30	264	164	62	36	2	0	0

- Molecule 7 is a protein called uL1m.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	L6	57	Total	C	N	O	S	0	0
			476	312	92	71	1		

- Molecule 8 is a protein called uL14m.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	L7	114	Total	C	N	O	S	0	0
			906	571	181	149	5		

- Molecule 9 is a protein called Putative 50S ribosomal protein L17.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	L8	239	Total	C	N	O	S	0	0
			2008	1276	384	341	7		

- Molecule 10 is a protein called DUF6832 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
10	L9	475	Total	C	N	O	S	0	0
			3888	2511	683	679	15		

- Molecule 11 is a protein called Putative 50S ribosomal protein L13.

Mol	Chain	Residues	Atoms					AltConf	Trace
11	LA	217	Total	C	N	O	S	0	0
			1708	1094	322	284	8		

- Molecule 12 is a protein called Putative ribosomal protein L20.

Mol	Chain	Residues	Atoms					AltConf	Trace
12	LB	121	Total	C	N	O	S	0	0
			1033	663	200	165	5		

- Molecule 13 is a protein called Macro domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
13	LC	380	Total	C	N	O	S	0	0
			2909	1822	549	528	10		

- Molecule 14 is a protein called Ribosomal protein L46.

Mol	Chain	Residues	Atoms					AltConf	Trace
14	LD	225	Total	C	N	O	S	0	0
			1847	1197	319	328	3		

- Molecule 15 is a protein called FAS1 domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
15	LE	267	Total	C	N	O	S	0	0
			2118	1345	398	367	8		

- Molecule 16 is a protein called bL36m.

Mol	Chain	Residues	Atoms					AltConf	Trace
16	LF	88	Total	C	N	O	S	0	0
			731	466	152	109	4		

- Molecule 17 is a protein called Ribosomal protein RPL22.

Mol	Chain	Residues	Atoms					AltConf	Trace
17	LG	148	Total	C	N	O	S	0	0
			1253	804	235	211	3		

- Molecule 18 is a protein called Ribosomal protein L9, N-terminal domain-containing protein.

Mol	Chain	Residues	Atoms				AltConf	Trace
18	LH	87	Total	C	N	O	0	0
			693	442	135	116		

- Molecule 19 is a protein called Putative 60S ribosomal protein L27.

Mol	Chain	Residues	Atoms					AltConf	Trace
19	LI	79	Total	C	N	O	S	0	0
			613	402	109	98	4		

- Molecule 20 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
20	LJ	443	Total	C	N	O	S	0	0
			3640	2316	690	616	18		

- Molecule 21 is a protein called BIR protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
21	LK	219	Total	C	N	O	S	0	0
			1905	1211	364	324	6		

- Molecule 22 is a protein called AMP-dependent synthetase/ligase domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
22	LL	633	Total	C	N	O	S	0	0
			4847	3061	882	883	21		

- Molecule 23 is a protein called Large ribosomal subunit protein uL11m.

Mol	Chain	Residues	Atoms					AltConf	Trace
23	LM	177	Total	C	N	O	S	0	0
			1376	867	258	240	11		

- Molecule 24 is a protein called bL35m.

Mol	Chain	Residues	Atoms					AltConf	Trace
24	LN	113	Total	C	N	O	S	0	0
			986	626	205	153	2		

- Molecule 25 is a protein called LSU ribosomal protein L2P, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
25	LO	344	Total	C	N	O	S	0	0
			2647	1662	530	448	7		

- Molecule 26 is a protein called Peptidyl-prolyl cis-trans isomerase.

Mol	Chain	Residues	Atoms					AltConf	Trace
26	LP	202	Total	C	N	O	S	0	0
			1636	1041	297	288	10		

- Molecule 27 is a protein called mL175.

Mol	Chain	Residues	Atoms				AltConf	Trace
27	LQ	70	Total	C	N	O	0	0
			600	383	120	97		

- Molecule 28 is a protein called mL172.

Mol	Chain	Residues	Atoms					AltConf	Trace
28	LR	86	Total	C	N	O	S	0	0
			738	461	146	127	4		

- Molecule 29 is a protein called Large ribosomal subunit protein uL24c.

Mol	Chain	Residues	Atoms					AltConf	Trace
29	LS	228	Total	C	N	O	S	0	0
			1812	1154	333	314	11		

- Molecule 30 is a protein called Putative 50S ribosomal protein L33.

Mol	Chain	Residues	Atoms					AltConf	Trace
30	LT	113	Total	C	N	O	S	0	0
			965	622	184	156	3		

- Molecule 31 is a protein called Large ribosomal subunit protein mL49.

Mol	Chain	Residues	Atoms					AltConf	Trace
31	LU	79	Total	C	N	O	S	0	0
			623	398	118	105	2		

- Molecule 32 is a protein called mL148.

Mol	Chain	Residues	Atoms					AltConf	Trace
32	LV	662	Total	C	N	O	S	0	0
			5149	3256	961	913	19		

- Molecule 33 is a protein called Putative 50S ribosomal protein L3.

Mol	Chain	Residues	Atoms					AltConf	Trace
33	LW	306	Total	C	N	O	S	0	0
			2433	1553	441	425	14		

- Molecule 34 is a protein called mL176.

Mol	Chain	Residues	Atoms					AltConf	Trace
34	LX	92	Total	C	N	O	S	0	0
			779	496	132	146	5		

- Molecule 35 is a protein called Ribosomal L22p/L17e protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
35	LY	346	Total	C	N	O	S	0	0
			2909	1858	561	483	7		

- Molecule 36 is a protein called mL174.

Mol	Chain	Residues	Atoms					AltConf	Trace
36	LZ	197	Total	C	N	O	S	0	0
			1591	1012	304	267	8		

- Molecule 37 is a protein called Large ribosomal subunit protein uL23m.

Mol	Chain	Residues	Atoms					AltConf	Trace
37	La	214	Total	C	N	O	S	0	0
			1769	1146	320	297	6		

- Molecule 38 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
38	Lb	609	Total	C	N	O	S	0	0
			4929	3140	925	849	15		

- Molecule 39 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
39	Lc	473	Total	C	N	O	S	0	0
			3797	2416	681	686	14		

- Molecule 40 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
40	Ld	437	Total	C	N	O	S	0	0
			3507	2233	626	633	15		

- Molecule 41 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
41	Le	376	Total	C	N	O	S	0	0
			3057	1925	573	549	10		

There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Le	?	-	LEU	deletion	UNP S8GIP4

- Molecule 42 is a protein called HECT-domain (Ubiquitin-transferase) domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
42	Lf	216	Total	C	N	O	S	0	0
			1709	1093	315	294	7		

- Molecule 43 is a protein called Large ribosomal subunit protein uL29m.

Mol	Chain	Residues	Atoms					AltConf	Trace
43	Lg	214	Total	C	N	O	S	0	0
			1824	1156	345	314	9		

- Molecule 44 is a protein called Large ribosomal subunit protein uL4m.

Mol	Chain	Residues	Atoms					AltConf	Trace
44	Lh	443	Total	C	N	O	S	0	0
			3675	2351	682	628	14		

- Molecule 45 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
45	Li	473	Total	C	N	O	S	0	0
			3833	2459	702	656	16		

- Molecule 46 is a protein called mL177.

Mol	Chain	Residues	Atoms					AltConf	Trace
46	Lj	122	Total	C	N	O	S	0	0
			977	610	200	164	3		

- Molecule 47 is a protein called AP2 domain transcription factor AP2VIIb-2.

Mol	Chain	Residues	Atoms					AltConf	Trace
47	Lk	184	Total	C	N	O	S	0	0
			1502	969	267	260	6		

- Molecule 48 is a protein called Large ribosomal subunit protein mL43.

Mol	Chain	Residues	Atoms					AltConf	Trace
48	Ll	190	Total	C	N	O	S	0	0
			1573	996	307	267	3		

- Molecule 49 is a protein called Large ribosomal subunit protein uL24c.

Mol	Chain	Residues	Atoms					AltConf	Trace
49	Lm	184	Total	C	N	O	S	0	0
			1501	944	285	265	7		

- Molecule 50 is a protein called mL185.

Mol	Chain	Residues	Atoms					AltConf	Trace
50	Ln	60	Total	C	N	O	S	0	0
			442	280	80	79	3		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
Ln	?	-	SER	deletion	UNP S8G210
Ln	?	-	ALA	deletion	UNP S8G210

- Molecule 51 is a protein called Transmembrane protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
51	Lo	283	Total	C	N	O	S	0	0
			2219	1405	421	384	9		

- Molecule 52 is a protein called bL19m.

Mol	Chain	Residues	Atoms					AltConf	Trace
52	Lp	368	Total	C	N	O	S	0	0
			3074	1954	595	514	11		

- Molecule 53 is a protein called RAP domain-containing protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
53	Lq	687	Total	C	N	O	S	0	0
			5268	3323	958	966	21		

- Molecule 54 is a protein called Putative ribosomal protein L28.

Mol	Chain	Residues	Atoms					AltConf	Trace
54	Lr	281	Total	C	N	O	S	0	0
			2342	1475	461	398	8		

- Molecule 55 is a protein called Ribosomal protein L15, putative.

Mol	Chain	Residues	Atoms					AltConf	Trace
55	Ls	311	Total	C	N	O	S	0	0
			2565	1615	507	438	5		

- Molecule 56 is a protein called mL40.

Mol	Chain	Residues	Atoms					AltConf	Trace
56	Lt	188	Total	C	N	O	S	0	0
			1556	999	276	274	7		

- Molecule 57 is a protein called mL164.

Mol	Chain	Residues	Atoms					AltConf	Trace
57	Lu	232	Total	C	N	O	S	0	0
			1834	1158	328	339	9		

- Molecule 58 is a protein called mL180.

Mol	Chain	Residues	Atoms					AltConf	Trace
58	Lv	112	Total	C	N	O	S	0	0
			928	599	165	159	5		

- Molecule 59 is a protein called Putative 50S ribosomal protein L16.

Mol	Chain	Residues	Atoms					AltConf	Trace
59	Lw	179	Total	C	N	O	S	0	0
			1440	916	282	240	2		

- Molecule 60 is a protein called mL173.

Mol	Chain	Residues	Atoms					AltConf	Trace
60	Lx	98	Total	C	N	O	S	0	0
			796	504	149	138	5		

- Molecule 61 is a protein called Large ribosomal subunit protein bL21m.

Mol	Chain	Residues	Atoms					AltConf	Trace
61	Ly	340	Total	C	N	O	S	0	0
			2821	1777	551	482	11		

- Molecule 62 is a protein called mL182.

Mol	Chain	Residues	Atoms					AltConf	Trace
62	Lz	120	Total	C	N	O	S	0	0
			994	620	188	184	2		

- Molecule 63 is a protein called mL178.

Mol	Chain	Residues	Atoms					AltConf	Trace
63	UA	85	Total	C	N	O	S	0	0
			709	464	133	111	1		

- Molecule 64 is a protein called bL27m.

Mol	Chain	Residues	Atoms					AltConf	Trace
64	UB	174	Total	C	N	O	S	0	0
			1451	921	281	245	4		

- Molecule 65 is a protein called mL179.

Mol	Chain	Residues	Atoms					AltConf	Trace
65	UC	105	Total	C	N	O	S	0	0
			864	567	150	141	6		

- Molecule 66 is a protein called Transmembrane protein.

Mol	Chain	Residues	Atoms					AltConf	Trace
66	UD	35	Total	C	N	O	S	0	0
			308	192	72	43	1		

- Molecule 67 is a protein called mL53.

Mol	Chain	Residues	Atoms					AltConf	Trace
67	UE	113	Total	C	N	O	S	0	0
			935	598	165	166	6		

- Molecule 68 is a protein called bL32m.

Mol	Chain	Residues	Atoms					AltConf	Trace
68	UF	78	Total	C	N	O	S	0	0
			672	443	122	105	2		

- Molecule 69 is a protein called AP2 domain transcription factor AP2IV-1.

Mol	Chain	Residues	Atoms					AltConf	Trace
69	UG	158	Total	C	N	O	S	0	0
			1343	846	266	227	4		

- Molecule 70 is a protein called mL181.

Mol	Chain	Residues	Atoms					AltConf	Trace
70	UH	47	Total	C	N	O	S	0	0
			401	254	80	64	3		

- Molecule 71 is a protein called mL184.

Mol	Chain	Residues	Atoms					AltConf	Trace
71	UI	35	Total	C	N	O	S	0	0
			293	178	71	41	3		

- Molecule 72 is a RNA chain called RNA23t.

Mol	Chain	Residues	Atoms					AltConf	Trace
72	l0	44	Total	C	N	O	P	0	0
			936	419	170	303	44		

- Molecule 73 is a RNA chain called RNA29.

Mol	Chain	Residues	Atoms					AltConf	Trace
73	l1	50	Total	C	N	O	P	0	0
			1070	480	197	343	50		

- Molecule 74 is a RNA chain called LSUB.

Mol	Chain	Residues	Atoms					AltConf	Trace
74	l2	31	Total	C	N	O	P	0	0
			660	296	116	217	31		

- Molecule 75 is a RNA chain called RNA6.

Mol	Chain	Residues	Atoms					AltConf	Trace
75	l3	59	Total	C	N	O	P	0	0
			1254	563	227	405	59		

- Molecule 76 is a RNA chain called RNA1.

Mol	Chain	Residues	Atoms					AltConf	Trace
76	l4	94	Total	C	N	O	P	0	0
			1991	893	346	658	94		

- Molecule 77 is a RNA chain called RNA31.

Mol	Chain	Residues	Atoms					AltConf	Trace
77	l5	36	Total	C	N	O	P	0	0
			761	341	129	255	36		

- Molecule 78 is a RNA chain called RNA14.

Mol	Chain	Residues	Atoms					AltConf	Trace
78	l6	50	Total	C	N	O	P	0	0
			1072	483	209	330	50		

- Molecule 79 is a RNA chain called RNA11.

Mol	Chain	Residues	Atoms					AltConf	Trace
79	l7	69	Total	C	N	O	P	0	0
			1481	666	279	467	69		

- Molecule 80 is a RNA chain called RNA36.

Mol	Chain	Residues	Atoms					AltConf	Trace
80	l8	33	Total	C	N	O	P	0	0
			707	318	136	220	33		

- Molecule 81 is a RNA chain called RNA3.

Mol	Chain	Residues	Atoms					AltConf	Trace
81	l9	91	Total	C	N	O	P	0	0
			1926	864	336	635	91		

- Molecule 82 is a RNA chain called RNA2.

Mol	Chain	Residues	Atoms					AltConf	Trace
82	lA	65	Total 1387	C 622	N 253	O 447	P 65	0	0

- Molecule 83 is a RNA chain called RNA38.

Mol	Chain	Residues	Atoms					AltConf	Trace
83	lB	45	Total 985	C 439	N 197	O 304	P 45	0	0

- Molecule 84 is a RNA chain called RNA35.

Mol	Chain	Residues	Atoms					AltConf	Trace
84	lC	27	Total 583	C 261	N 112	O 183	P 27	0	0

- Molecule 85 is a RNA chain called RNA32.

Mol	Chain	Residues	Atoms					AltConf	Trace
85	lD	16	Total 338	C 153	N 62	O 107	P 16	0	0

- Molecule 86 is a RNA chain called RNA15.

Mol	Chain	Residues	Atoms					AltConf	Trace
86	lE	29	Total 630	C 282	N 124	O 195	P 29	0	0

- Molecule 87 is a RNA chain called RNA10.

Mol	Chain	Residues	Atoms					AltConf	Trace
87	lF	88	Total 1880	C 842	N 339	O 611	P 88	0	0

- Molecule 88 is a RNA chain called LSUC.

Mol	Chain	Residues	Atoms					AltConf	Trace
88	lG	26	Total 561	C 252	N 110	O 173	P 26	0	0

- Molecule 89 is a RNA chain called RNA16.

Mol	Chain	Residues	Atoms					AltConf	Trace
89	lH	27	Total	C	N	O	P	0	0
			572	256	96	193	27		

- Molecule 90 is a RNA chain called RNA13.

Mol	Chain	Residues	Atoms					AltConf	Trace
90	lI	48	Total	C	N	O	P	0	0
			1039	467	206	318	48		

- Molecule 91 is a RNA chain called LSUD/E.

Mol	Chain	Residues	Atoms					AltConf	Trace
91	lJ	279	Total	C	N	O	P	0	0
			5929	2654	1045	1951	279		

- Molecule 92 is a RNA chain called SSUF.

Mol	Chain	Residues	Atoms					AltConf	Trace
92	lK	38	Total	C	N	O	P	0	0
			821	367	157	259	38		

- Molecule 93 is a RNA chain called RNA7.

Mol	Chain	Residues	Atoms					AltConf	Trace
93	lL	91	Total	C	N	O	P	0	0
			1948	875	361	621	91		

- Molecule 94 is a RNA chain called LSUF/G.

Mol	Chain	Residues	Atoms					AltConf	Trace
94	lM	194	Total	C	N	O	P	0	0
			4121	1843	719	1365	194		

- Molecule 95 is a RNA chain called RNA37.

Mol	Chain	Residues	Atoms					AltConf	Trace
95	lN	62	Total	C	N	O	P	0	0
			1316	592	234	428	62		

- Molecule 96 is a RNA chain called LSUA.

Mol	Chain	Residues	Atoms					AltConf	Trace
96	lO	180	Total	C	N	O	P	0	0
			3841	1722	691	1248	180		

- Molecule 97 is a RNA chain called ulr1.

Mol	Chain	Residues	Atoms					AltConf	Trace
97	lP	29	Total	C	N	O	P	0	0
			580	261	58	232	29		

- Molecule 98 is a RNA chain called ulr2.

Mol	Chain	Residues	Atoms					AltConf	Trace
98	lQ	37	Total	C	N	O	P	0	0
			740	333	74	296	37		

- Molecule 99 is a RNA chain called ulr3.

Mol	Chain	Residues	Atoms					AltConf	Trace
99	lR	28	Total	C	N	O	P	0	0
			560	252	56	224	28		

- Molecule 100 is a RNA chain called ulr4.

Mol	Chain	Residues	Atoms					AltConf	Trace
100	lS	7	Total	C	N	O	P	0	0
			140	63	14	56	7		

- Molecule 101 is a RNA chain called ulr5.

Mol	Chain	Residues	Atoms					AltConf	Trace
101	lT	14	Total	C	N	O	P	0	0
			280	126	28	112	14		
101	lW	14	Total	C	N	O	P	0	0
			280	126	28	112	14		

- Molecule 102 is a RNA chain called ulr6.

Mol	Chain	Residues	Atoms					AltConf	Trace
102	lU	15	Total	C	N	O	P	0	0
			300	135	30	120	15		

- Molecule 103 is a RNA chain called ulr7,ulr8.

Mol	Chain	Residues	Atoms					AltConf	Trace
103	lV	10	Total 200	C 90	N 20	O 80	P 10	0	0
103	lY	10	Total 200	C 90	N 20	O 80	P 10	0	0

- Molecule 104 is a RNA chain called ulr9.

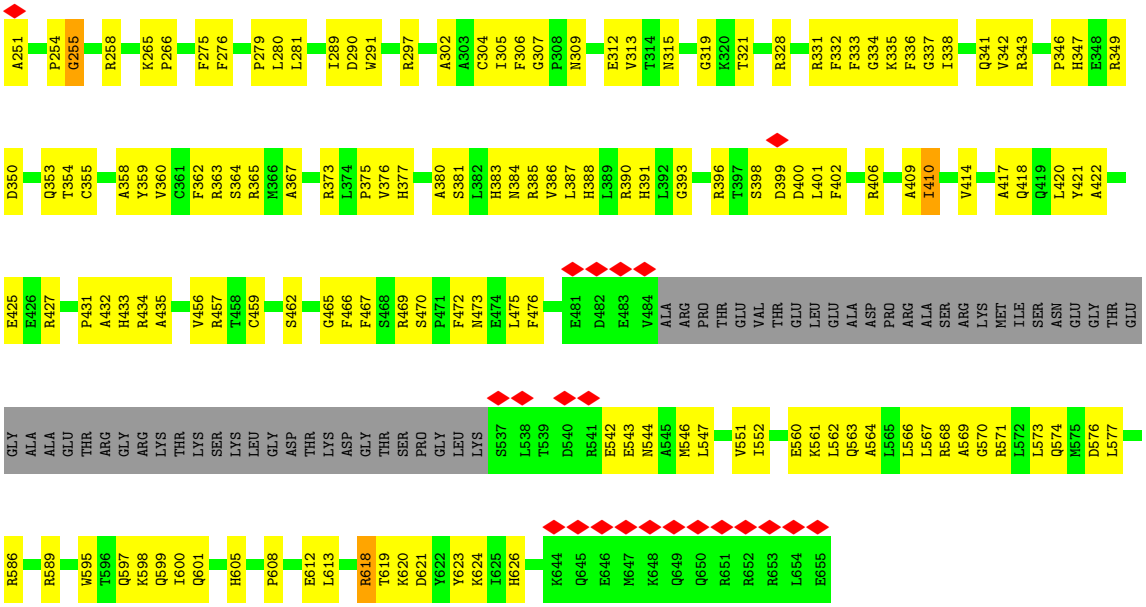
Mol	Chain	Residues	Atoms					AltConf	Trace
104	lX	58	Total 1160	C 522	N 116	O 464	P 58	0	0

3 Residue-property plots (i)

These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion in map density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red diamond above a residue indicates a poor fit to the EM map for this residue (all-atom inclusion < 40%). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

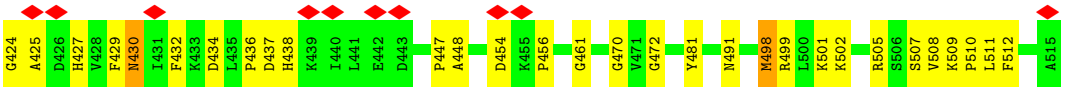
• Molecule 1: RRM domain-containing protein

Chain L0:



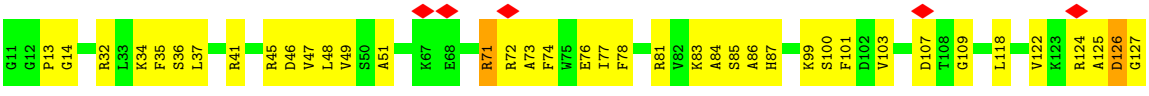
• Molecule 2: Large ribosomal subunit protein mL54

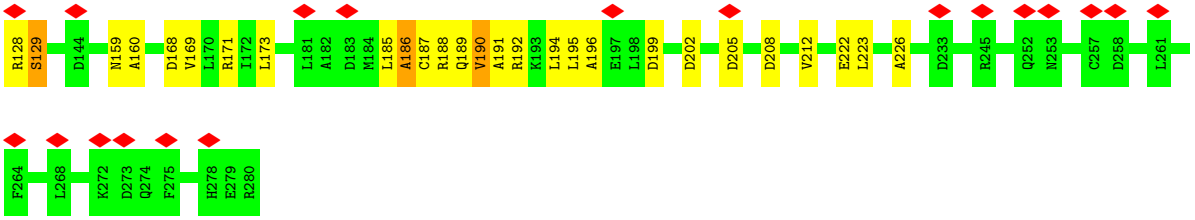
Chain L1:



• Molecule 3: mL162

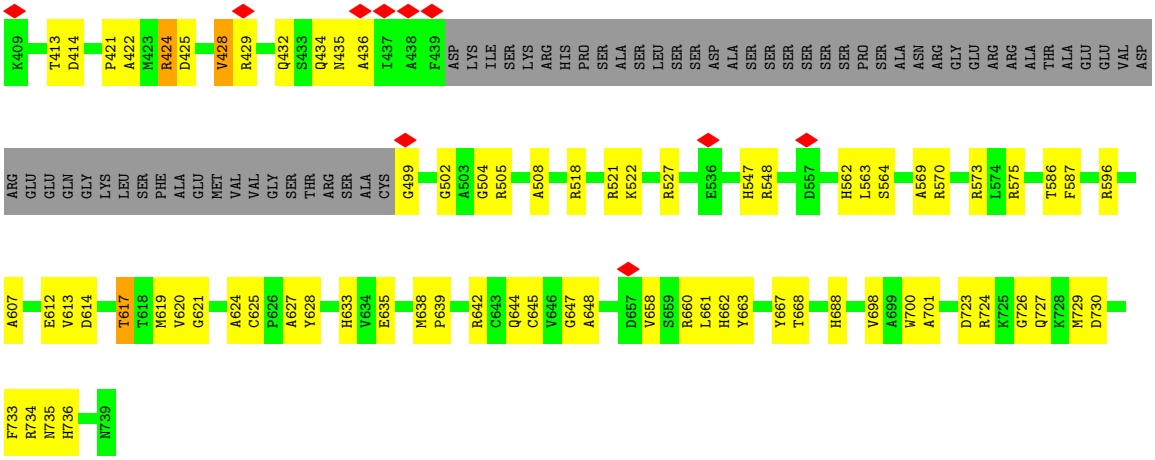
Chain L2:





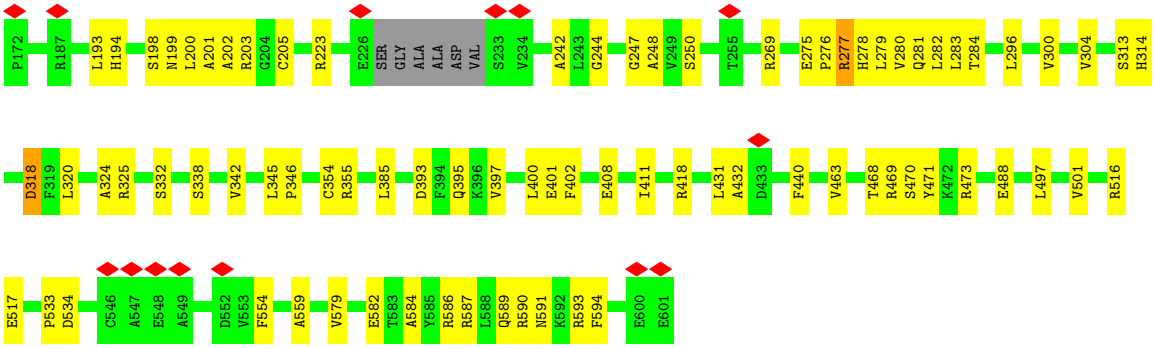
• Molecule 4: Ribosomal l25 family protein

Chain L3:



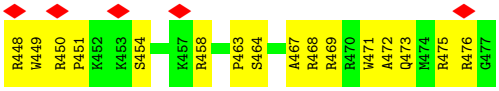
• Molecule 5: RAP domain-containing protein

Chain L4:



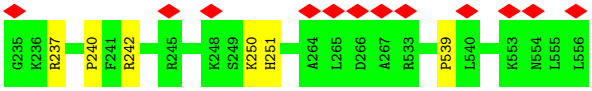
• Molecule 6: mL183

Chain L5:



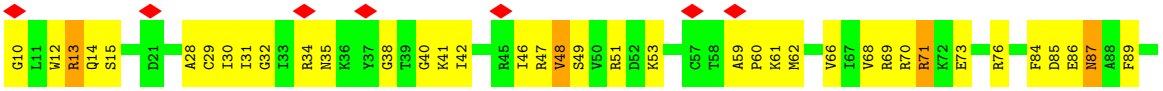
• Molecule 7: uL1m

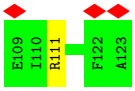
Chain L6:



• Molecule 8: uL14m

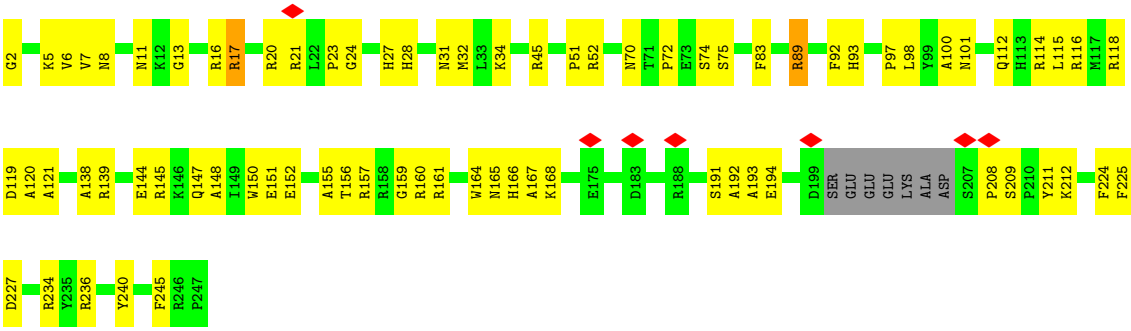
Chain L7:





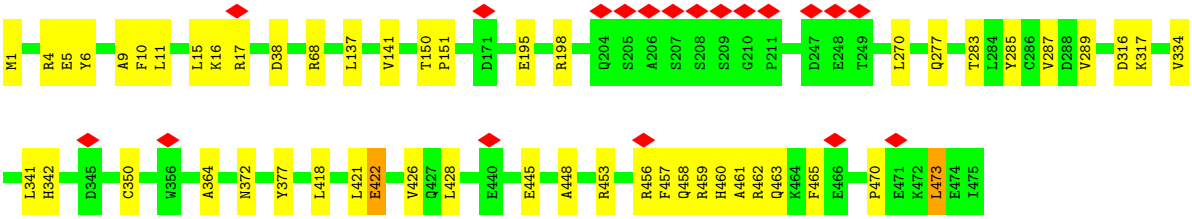
• Molecule 9: Putative 50S ribosomal protein L17

Chain L8:



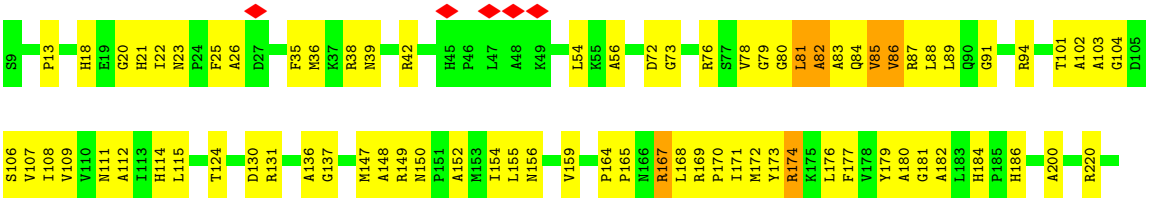
• Molecule 10: DUF6832 domain-containing protein

Chain L9:



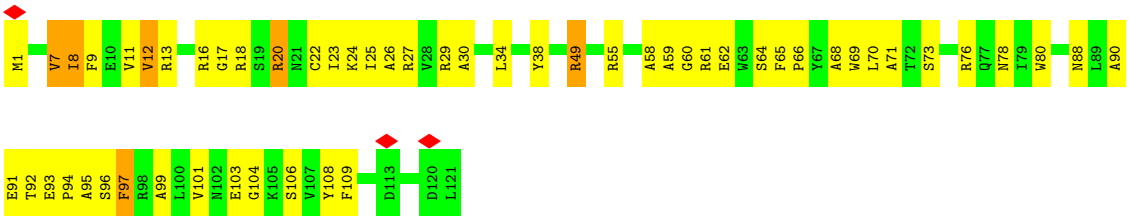
• Molecule 11: Putative 50S ribosomal protein L13

Chain LA:



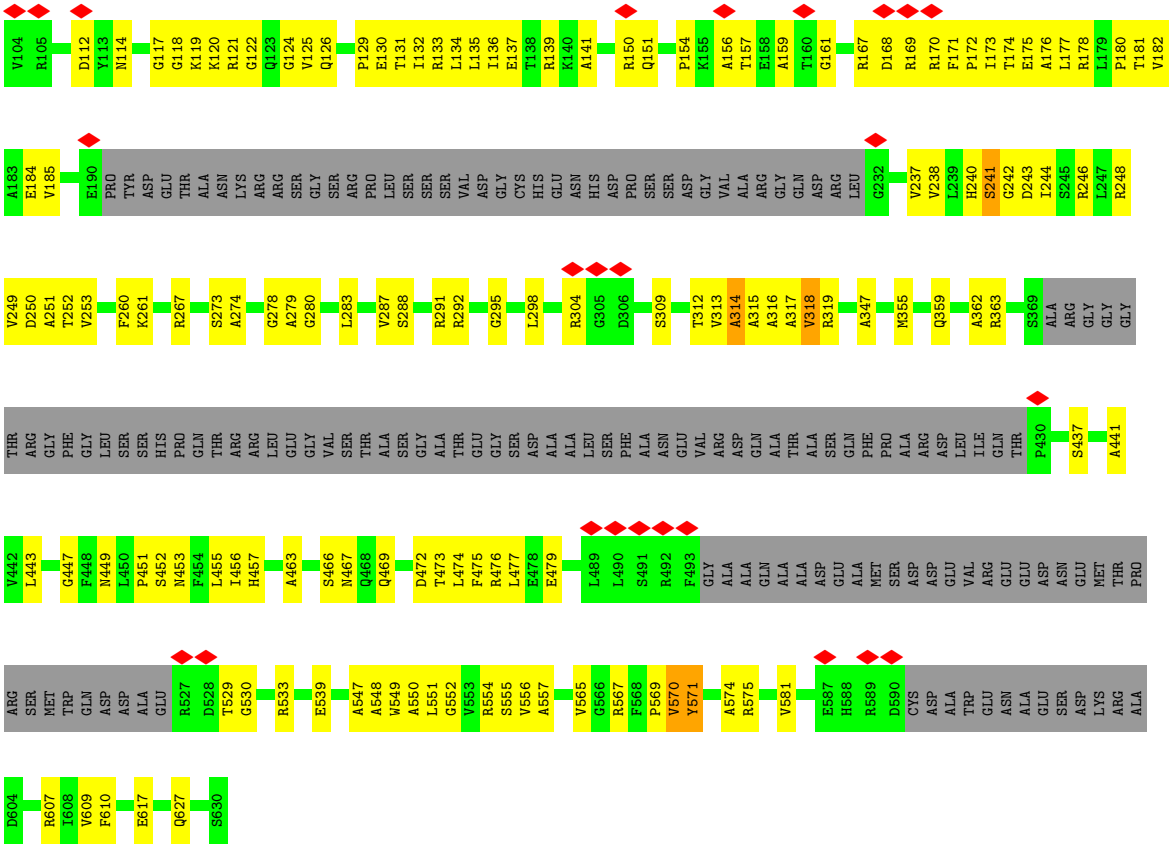
• Molecule 12: Putative ribosomal protein L20

Chain LB:



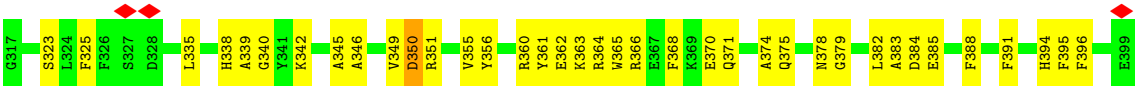
• Molecule 13: Macro domain-containing protein

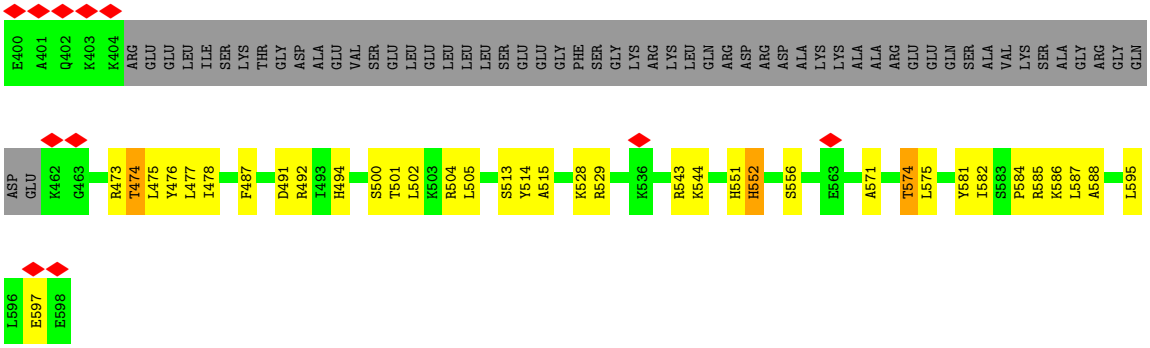
Chain LC:



• Molecule 14: Ribosomal protein L46

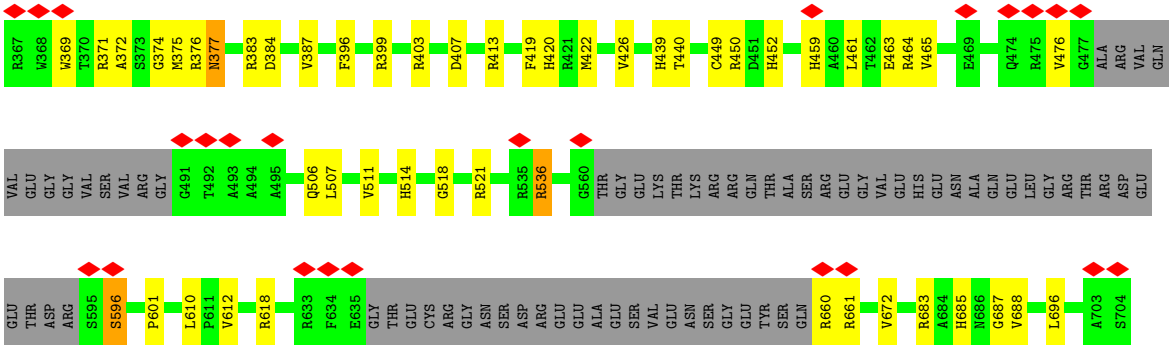
Chain LD:





• Molecule 15: FAS1 domain-containing protein

Chain LE:

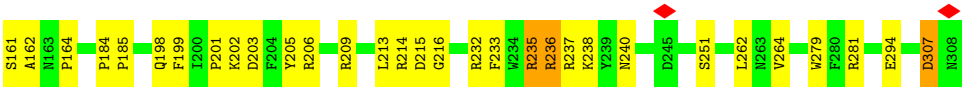


• Molecule 16: bL36m

Chain LF:

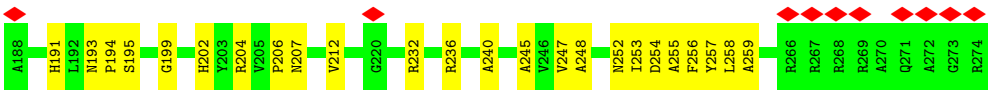
• Molecule 17: Ribosomal protein RPL22

Chain LG:



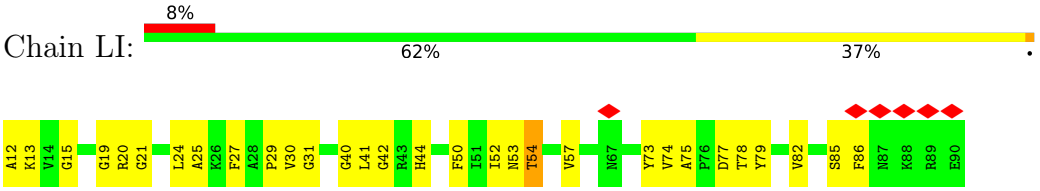
• Molecule 18: Ribosomal protein L9, N-terminal domain-containing protein

Chain LH:



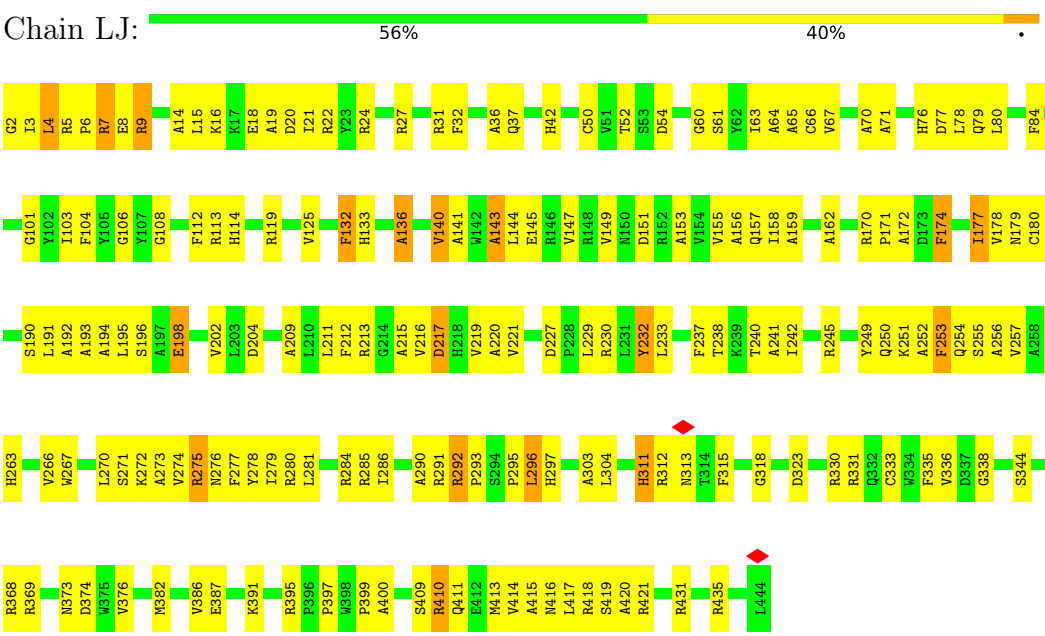
• Molecule 19: Putative 60S ribosomal protein L27

Chain LI:



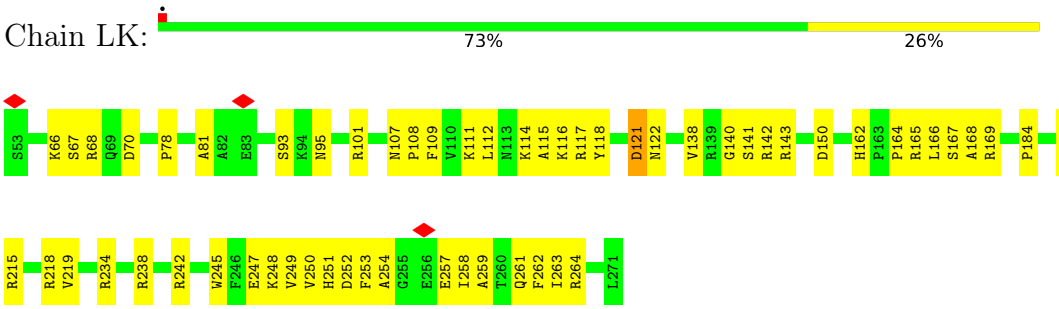
• Molecule 20: RAP domain-containing protein

Chain LJ:



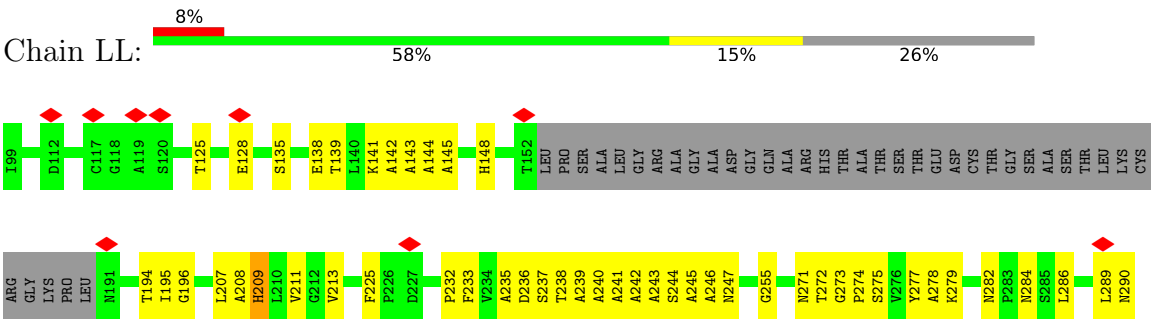
• Molecule 21: BIR protein

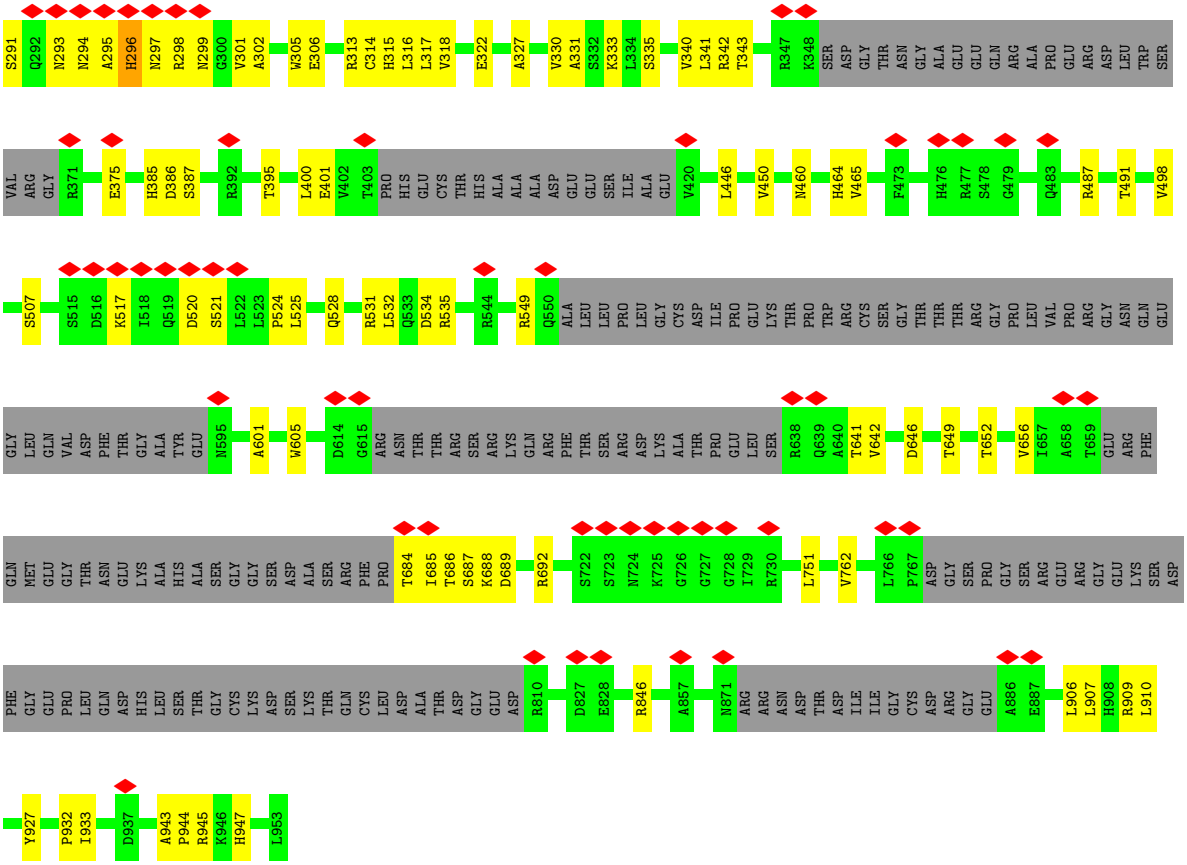
Chain LK:



• Molecule 22: AMP-dependent synthetase/ligase domain-containing protein

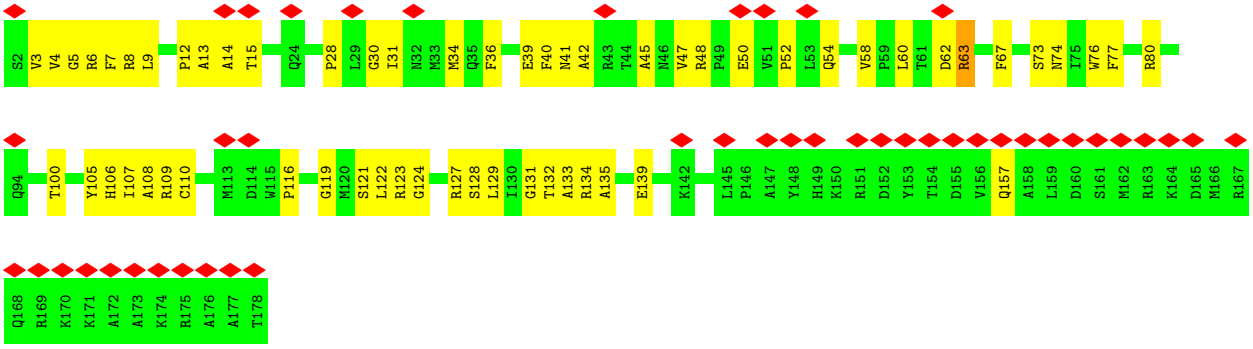
Chain LL:





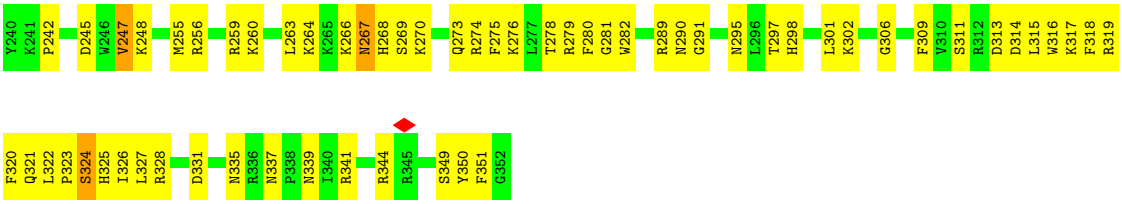
• Molecule 23: Large ribosomal subunit protein uL11m

Chain LM:



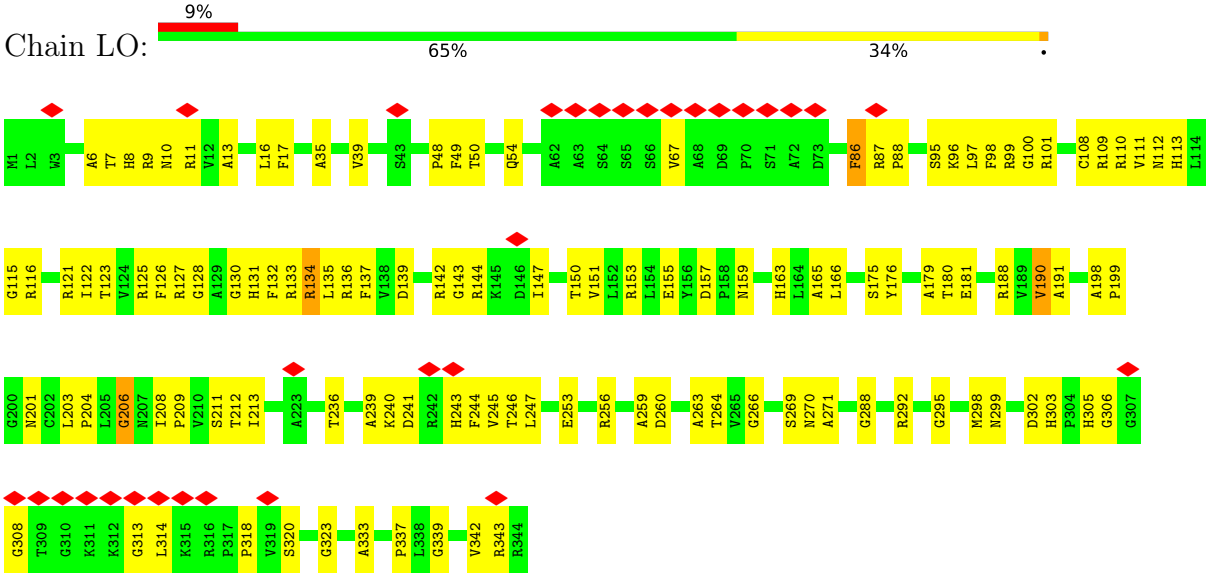
• Molecule 24: bL35m

Chain LN:



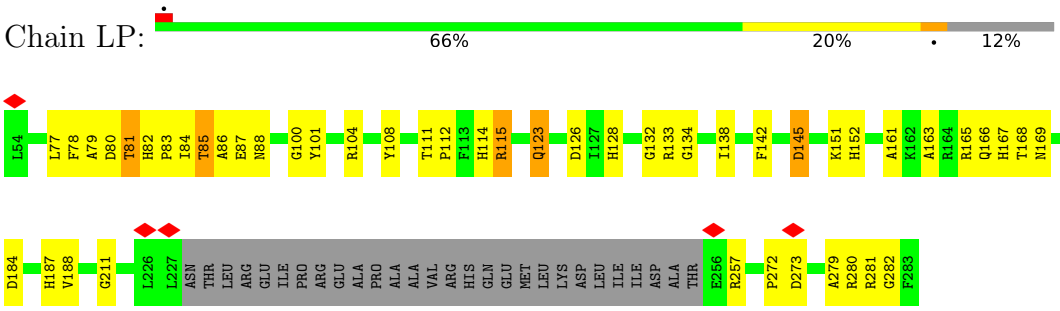
• Molecule 25: LSU ribosomal protein L2P, putative

Chain LO:



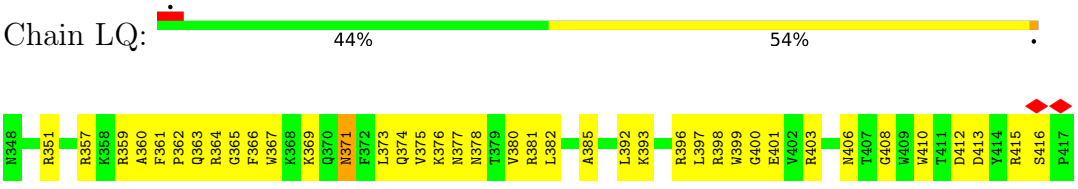
• Molecule 26: Peptidyl-prolyl cis-trans isomerase

Chain LP:



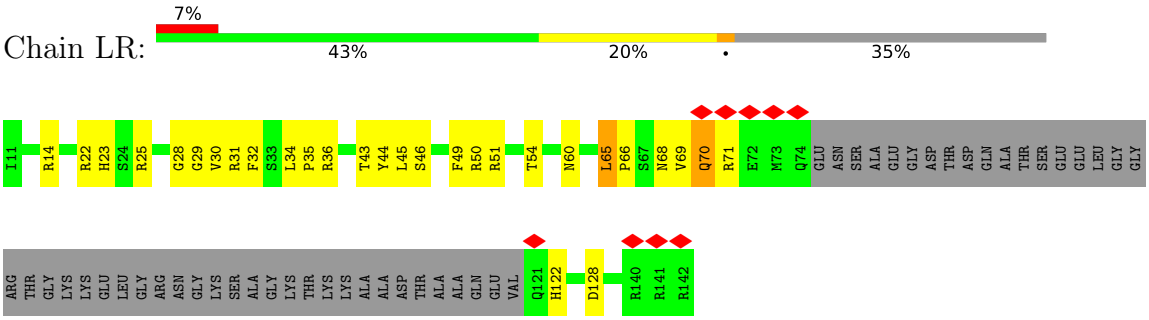
• Molecule 27: mL175

Chain LQ:



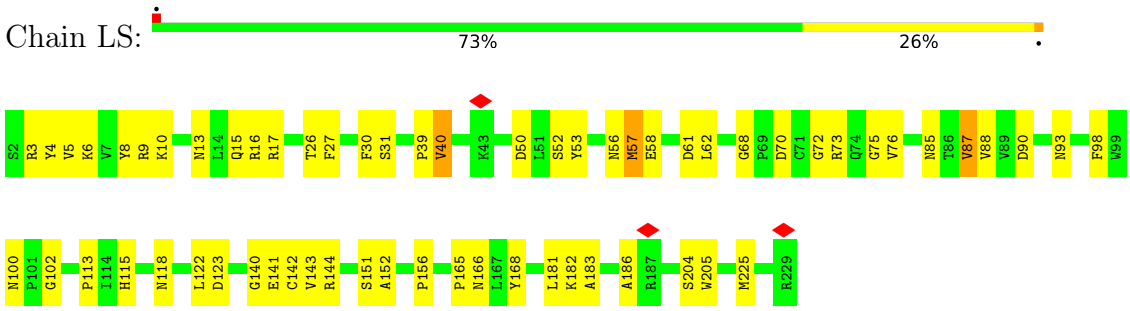
• Molecule 28: mL172

Chain LR:



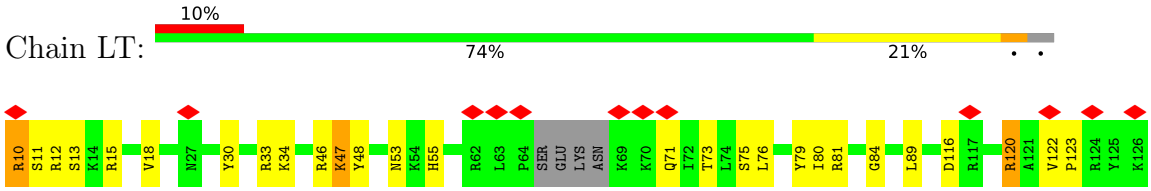
• Molecule 29: Large ribosomal subunit protein uL24c

Chain LS:



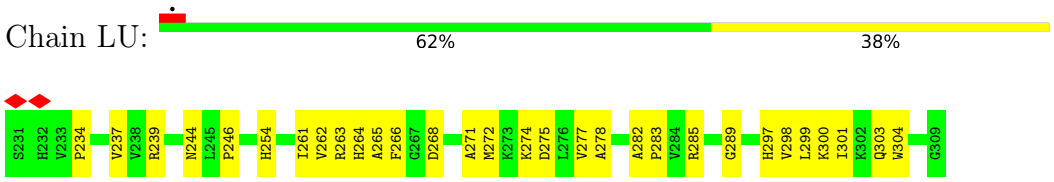
• Molecule 30: Putative 50S ribosomal protein L33

Chain LT:



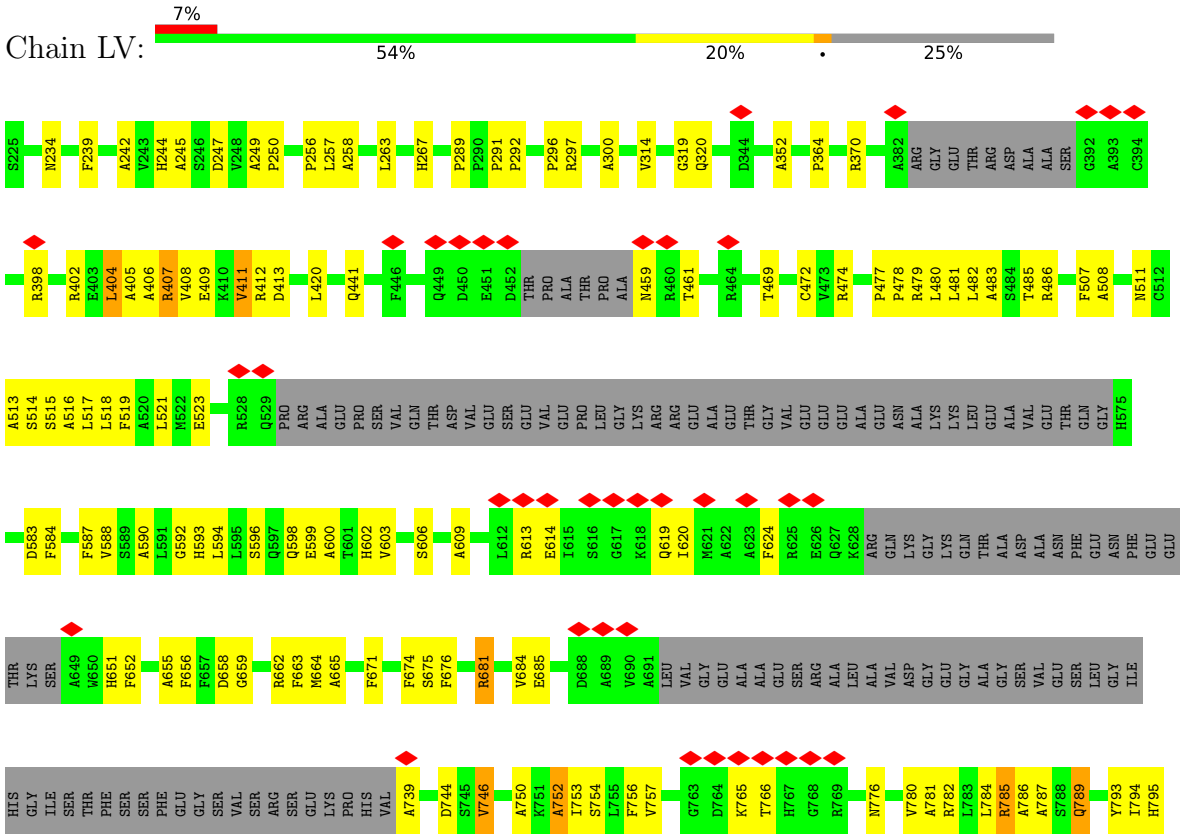
• Molecule 31: Large ribosomal subunit protein mL49

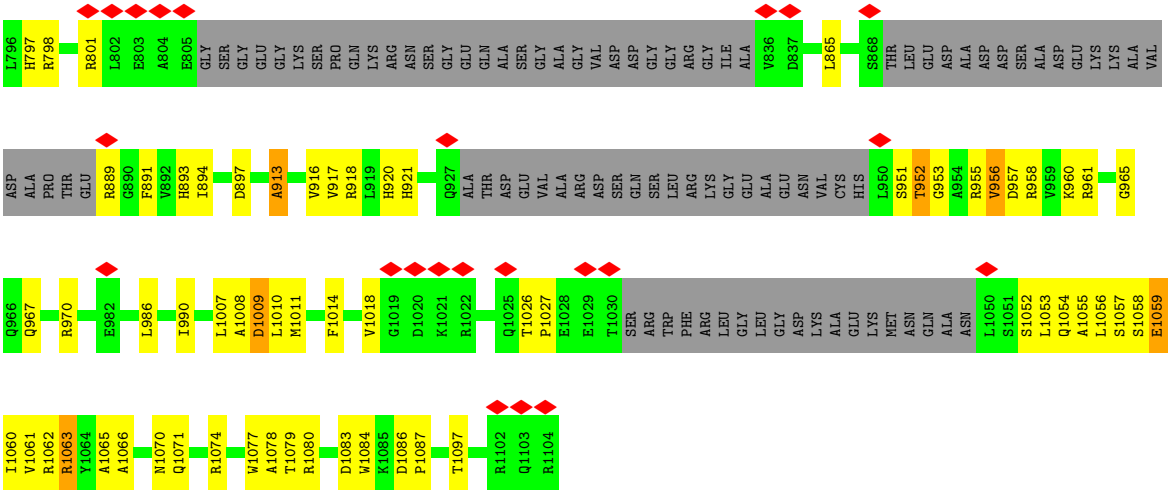
Chain LU:



• Molecule 32: mL148

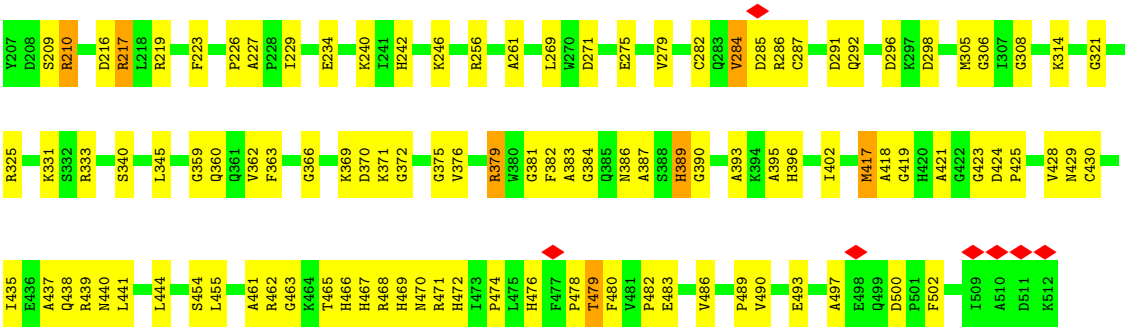
Chain LV:





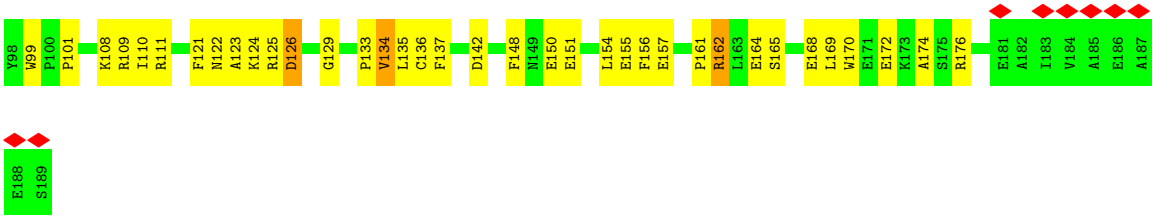
• Molecule 33: Putative 50S ribosomal protein L3

Chain LW:



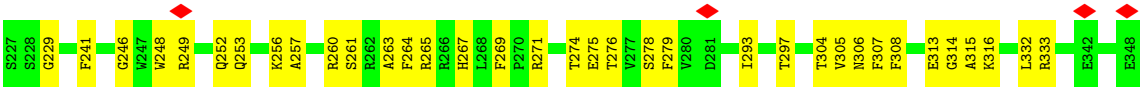
• Molecule 34: mL176

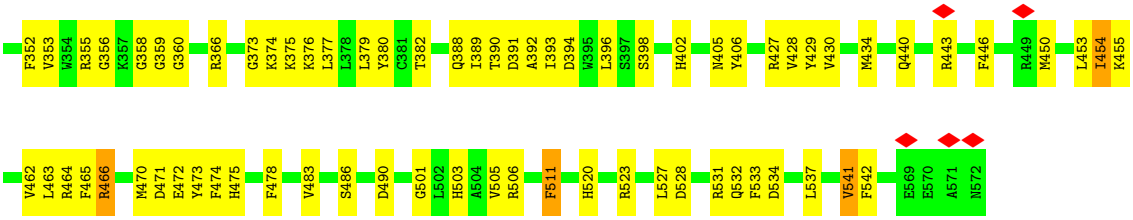
Chain LX:



• Molecule 35: Ribosomal L22p/L17e protein

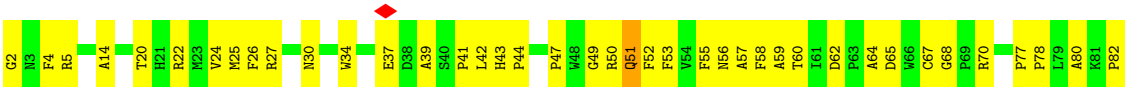
Chain LY:





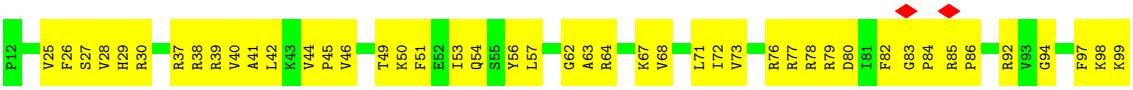
• Molecule 36: mL174

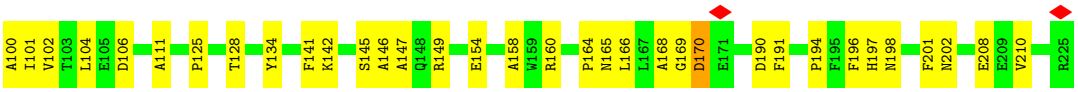
Chain LZ:



• Molecule 37: Large ribosomal subunit protein uL23m

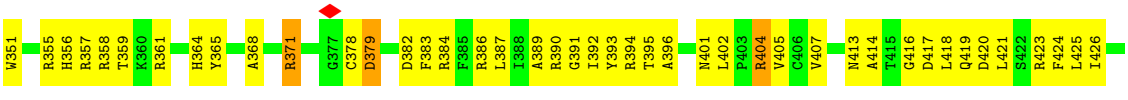
Chain La:

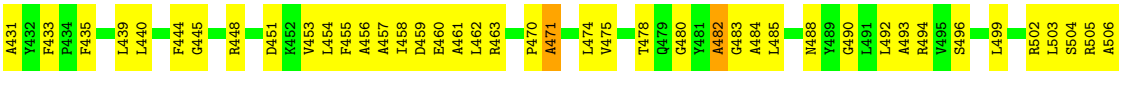


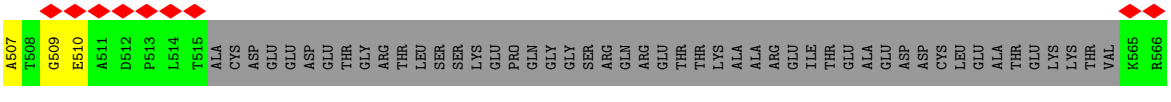


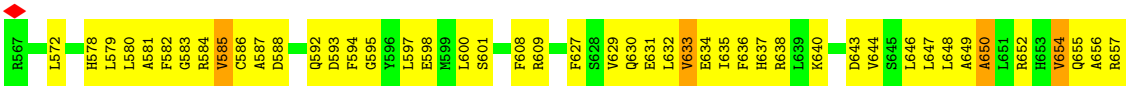
• Molecule 38: RAP domain-containing protein

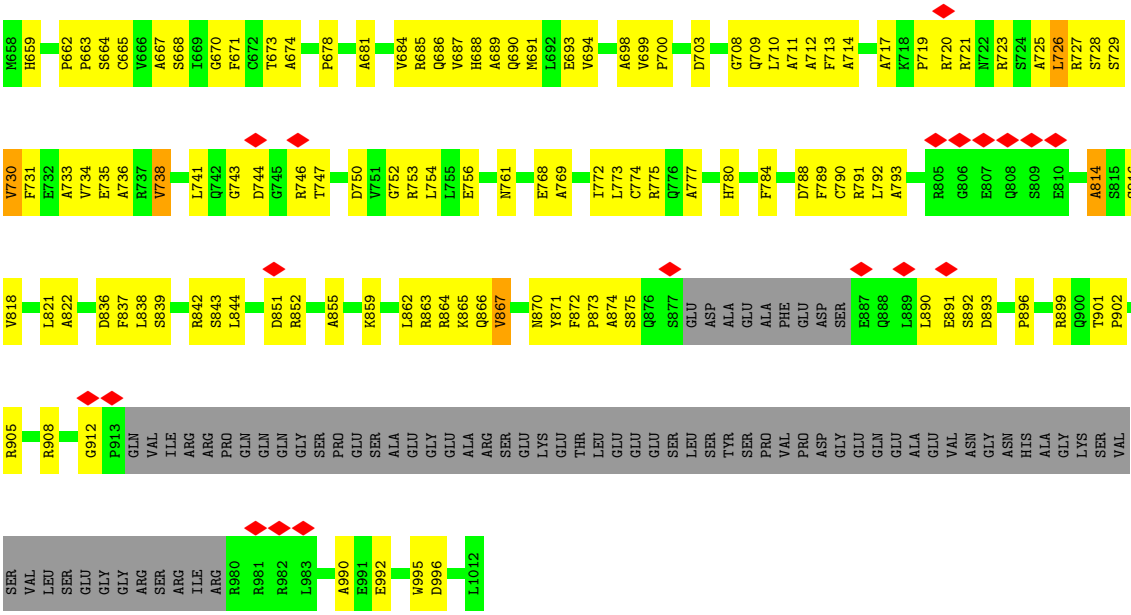
Chain Lb:





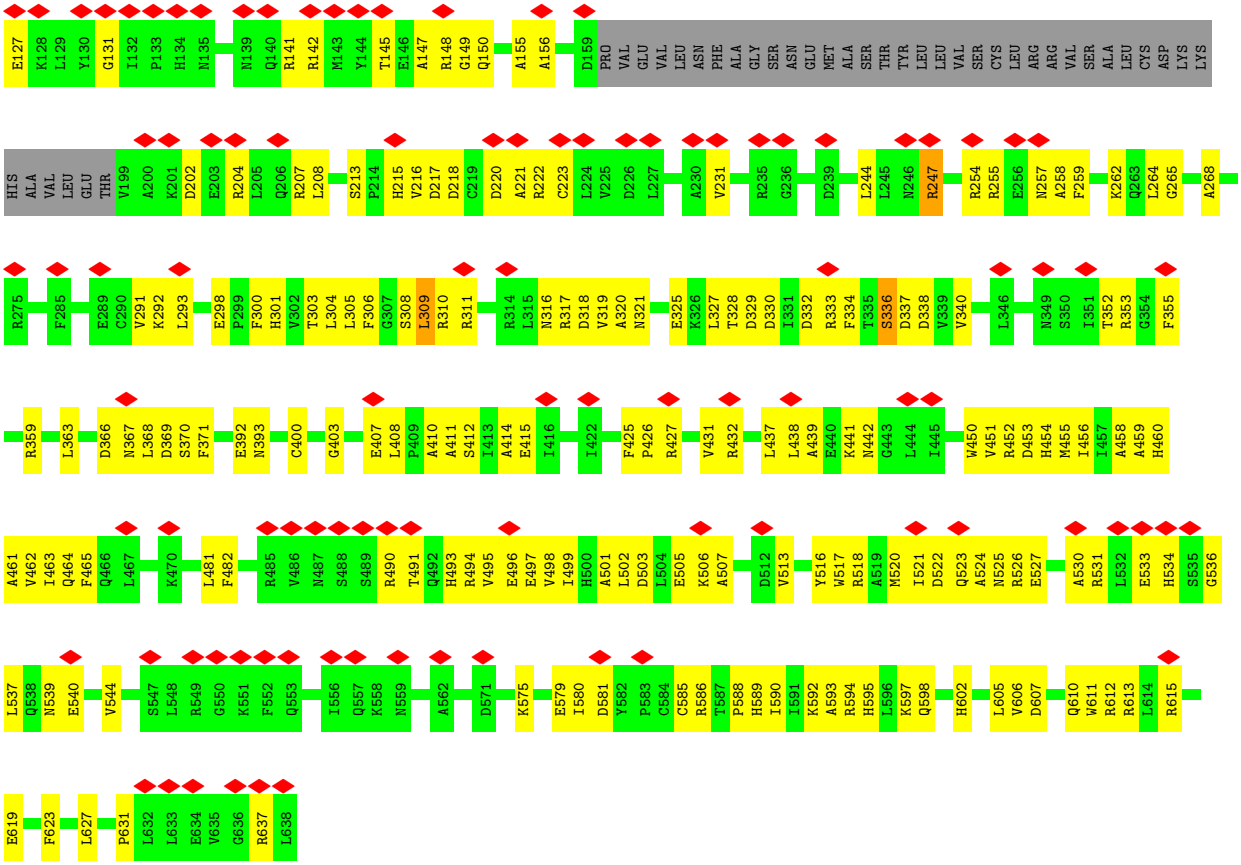






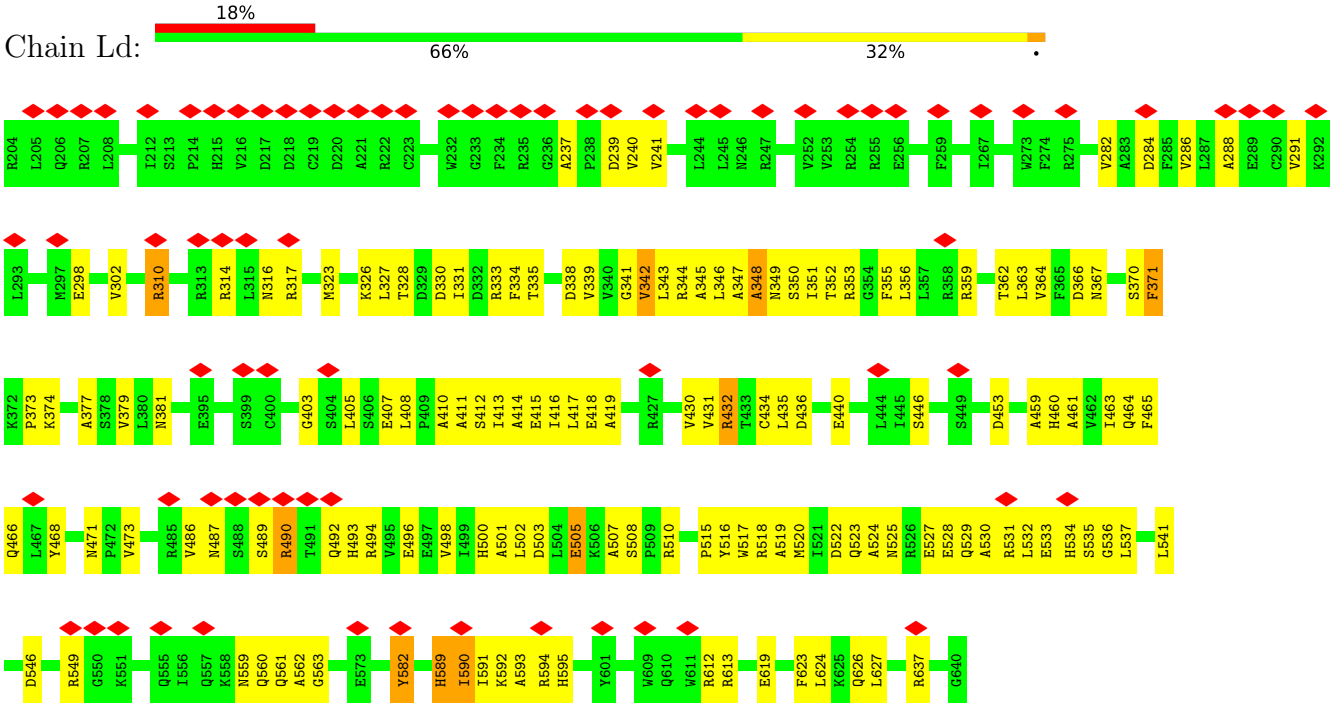
• Molecule 39: RAP domain-containing protein

Chain Lc:



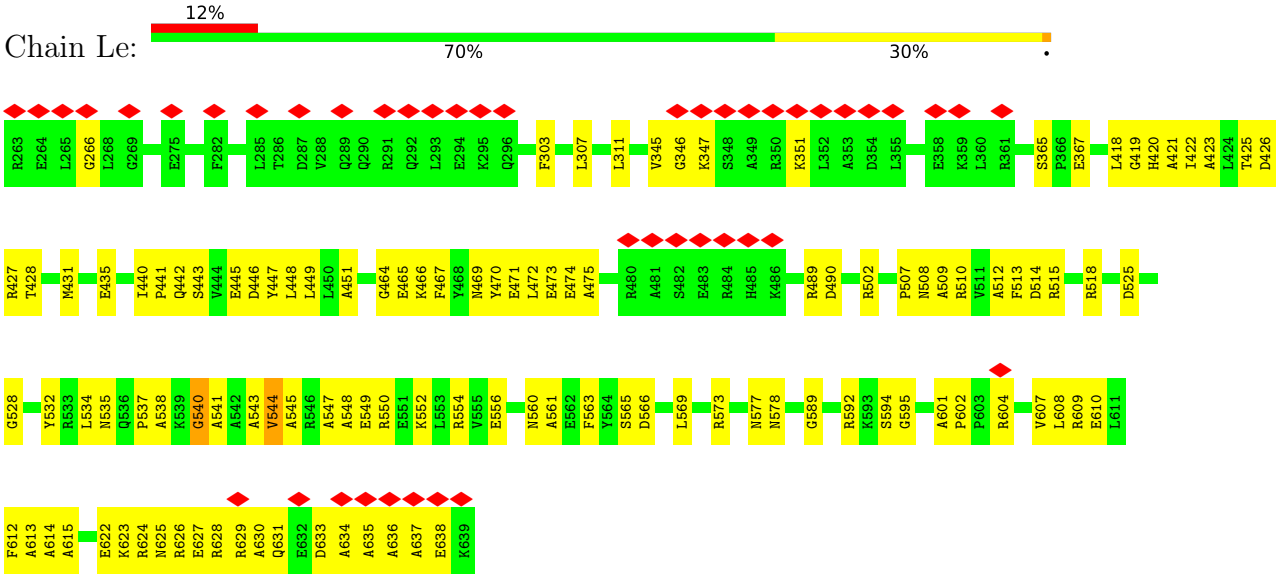
• Molecule 40: RAP domain-containing protein

Chain Ld:



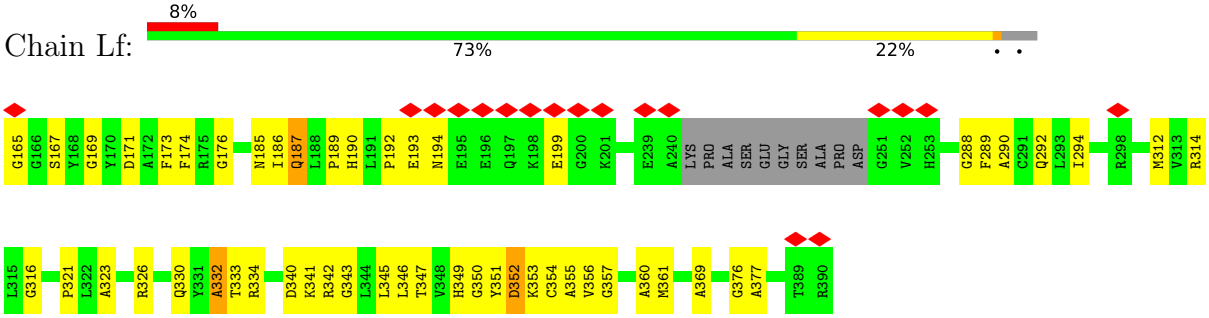
• Molecule 41: RAP domain-containing protein

Chain Le:



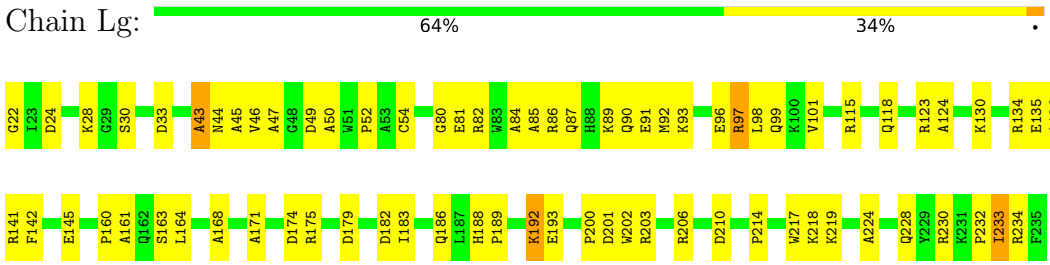
• Molecule 42: HECT-domain (Ubiquitin-transferase) domain-containing protein

Chain Lf:



• Molecule 43: Large ribosomal subunit protein uL29m

Chain Lg:

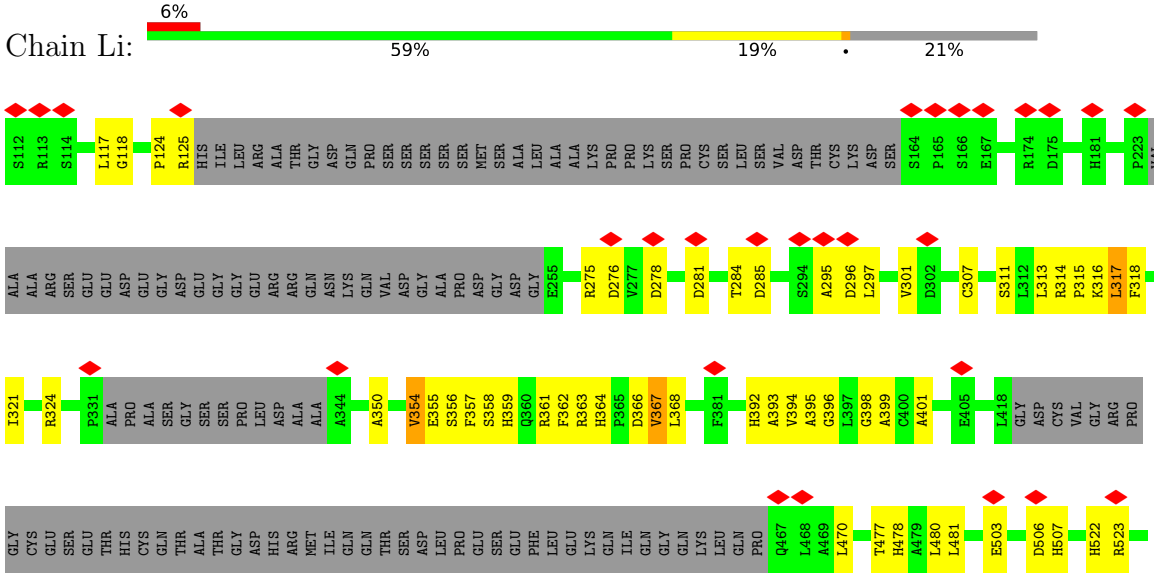


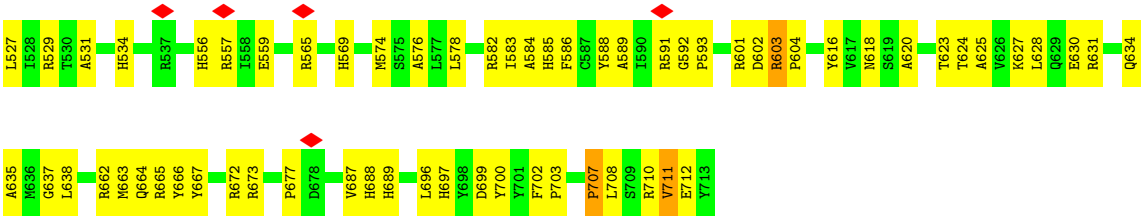
• Molecule 44: Large ribosomal subunit protein uL4m

Chain Lh:

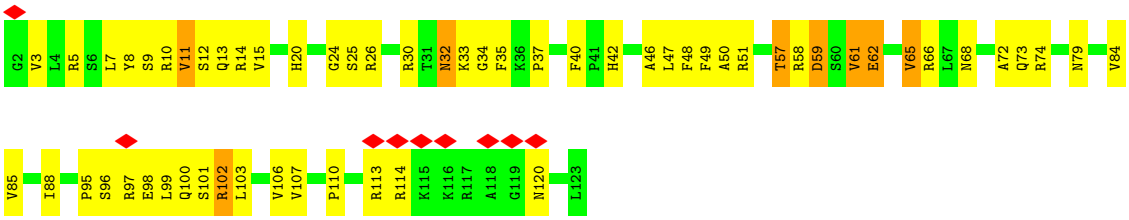
• Molecule 45: RAP domain-containing protein

Chain Li:

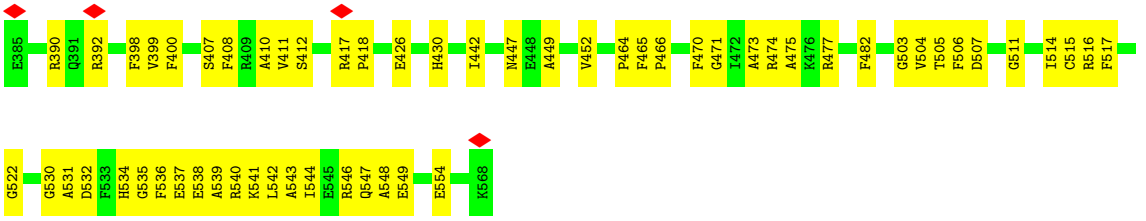




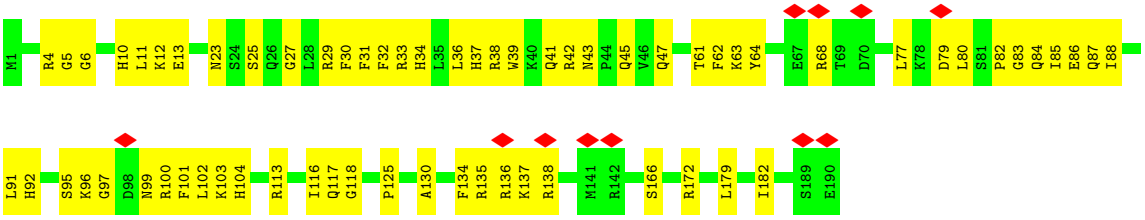
• Molecule 46: mL177



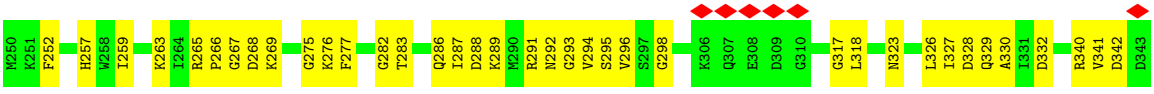
• Molecule 47: AP2 domain transcription factor AP2VIIb-2

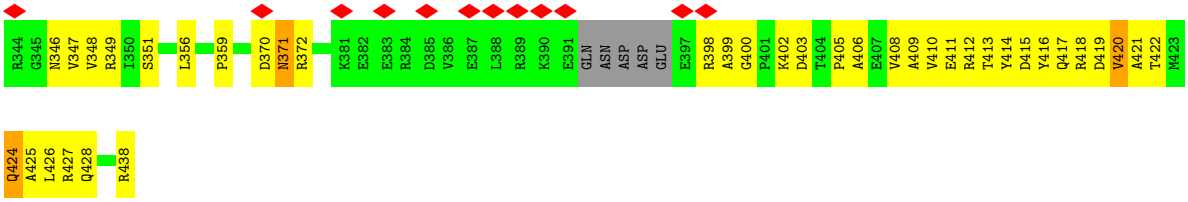


• Molecule 48: Large ribosomal subunit protein mL43

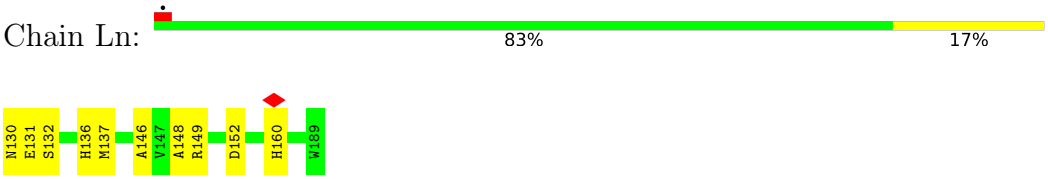


• Molecule 49: Large ribosomal subunit protein uL24c

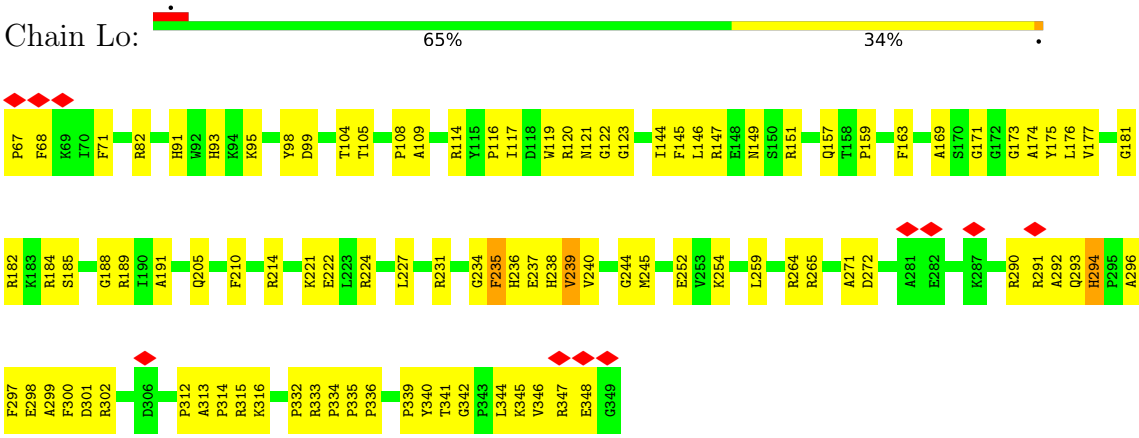




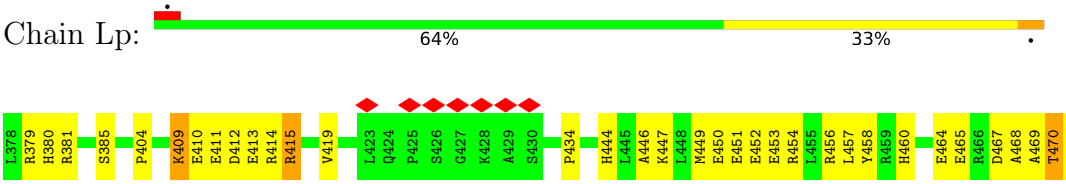
• Molecule 50: mL185

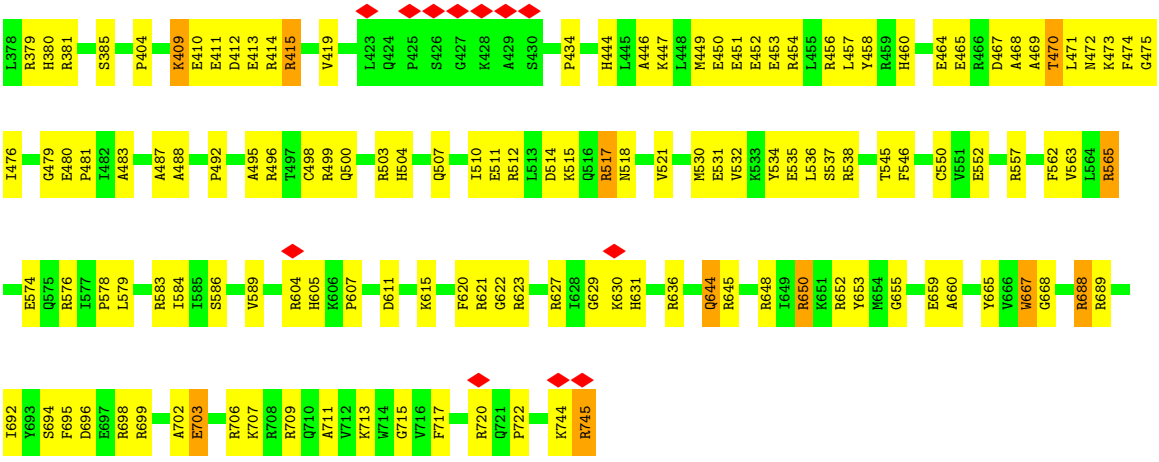


• Molecule 51: Transmembrane protein

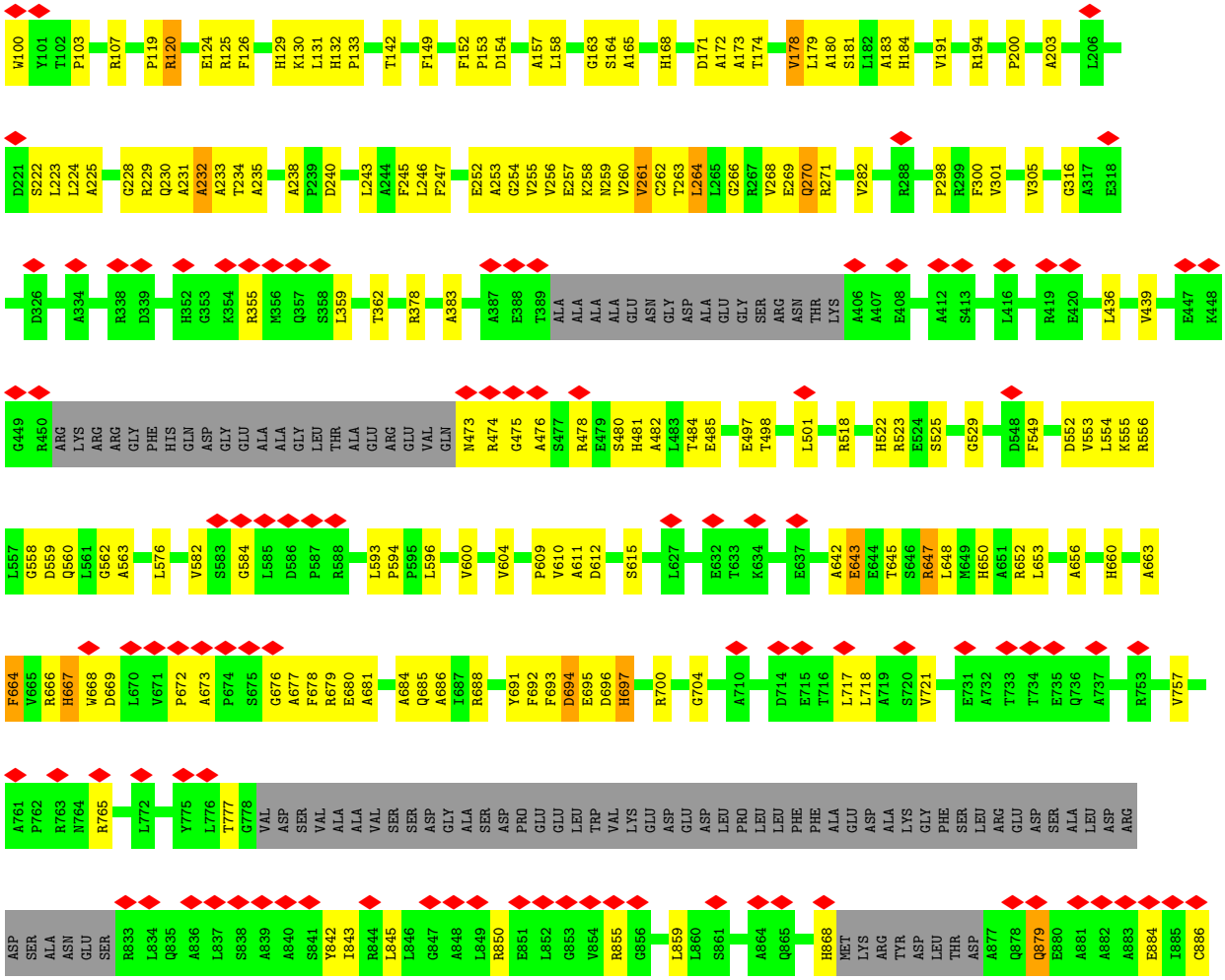


• Molecule 52: bL19m



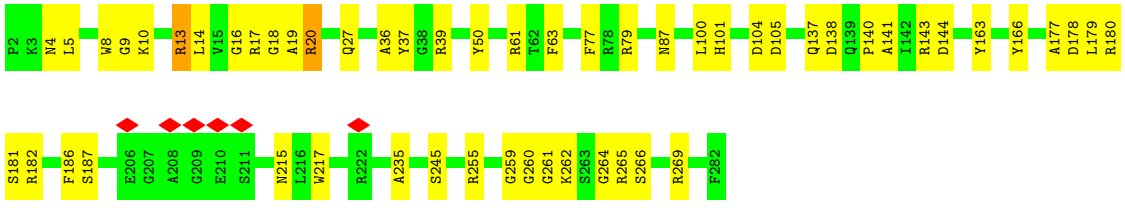


• Molecule 53: RAP domain-containing protein



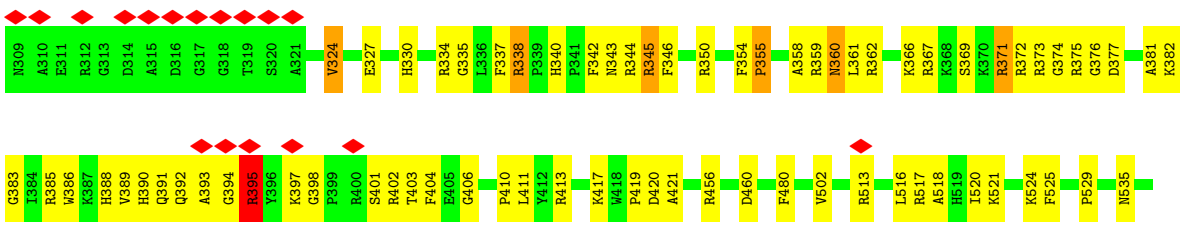
• Molecule 54: Putative ribosomal protein L28

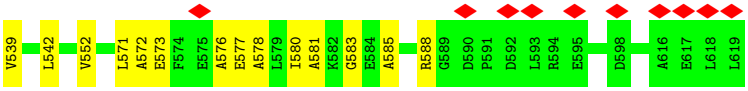
Chain Lr:



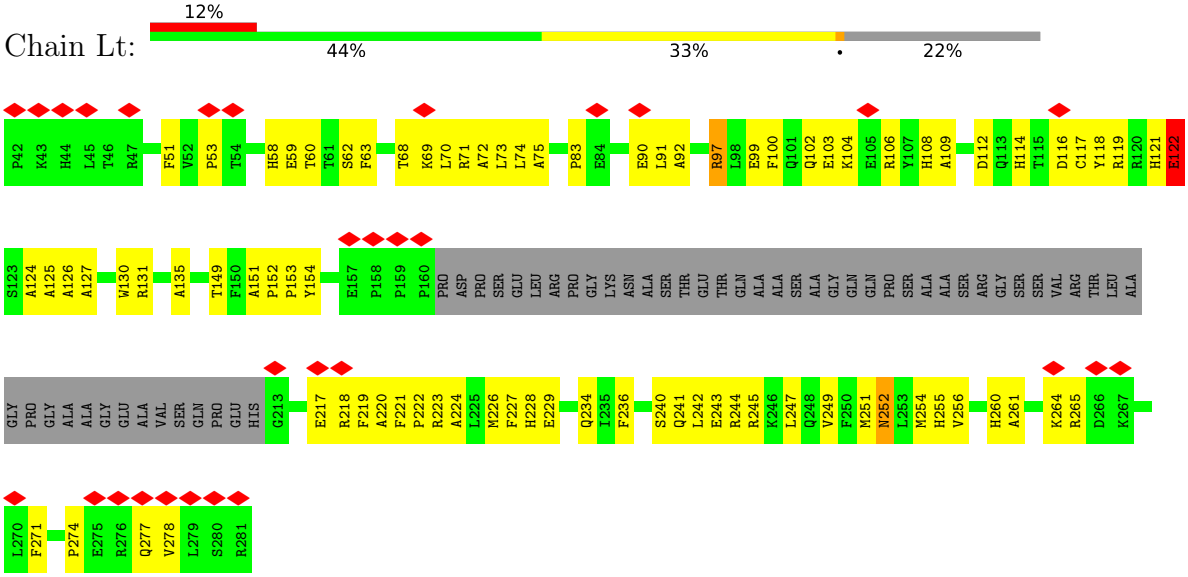
• Molecule 55: Ribosomal protein L15, putative

Chain Ls:

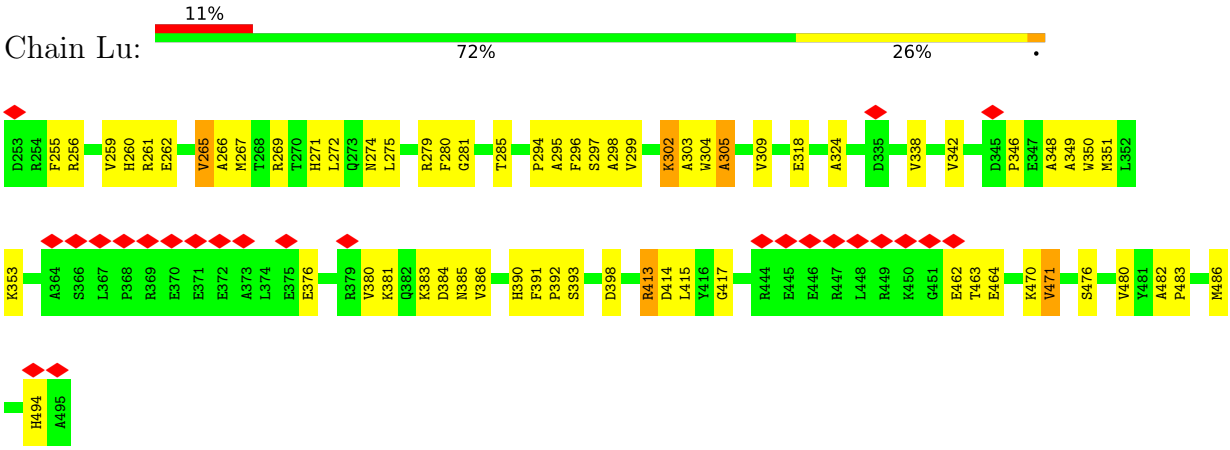




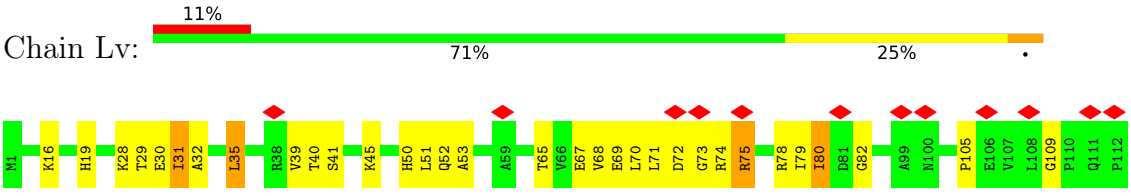
• Molecule 56: mL40



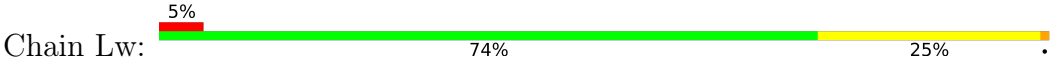
• Molecule 57: mL164

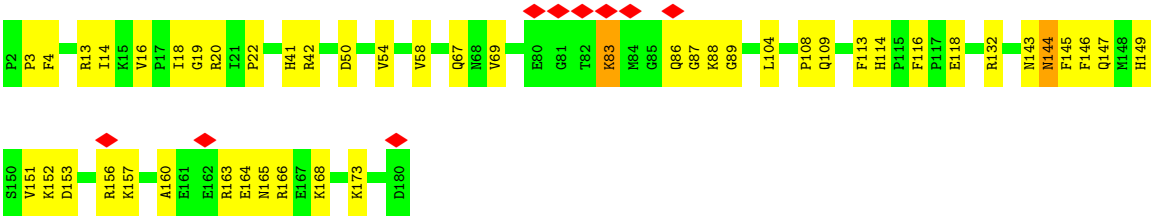


• Molecule 58: mL180

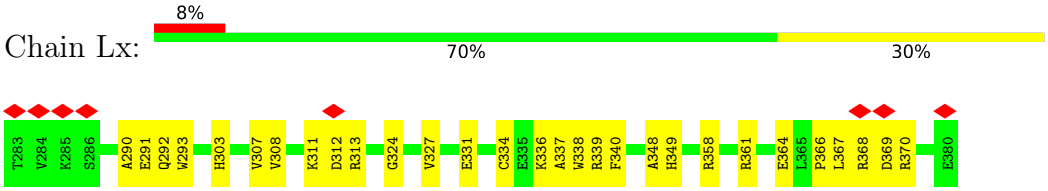


• Molecule 59: Putative 50S ribosomal protein L16

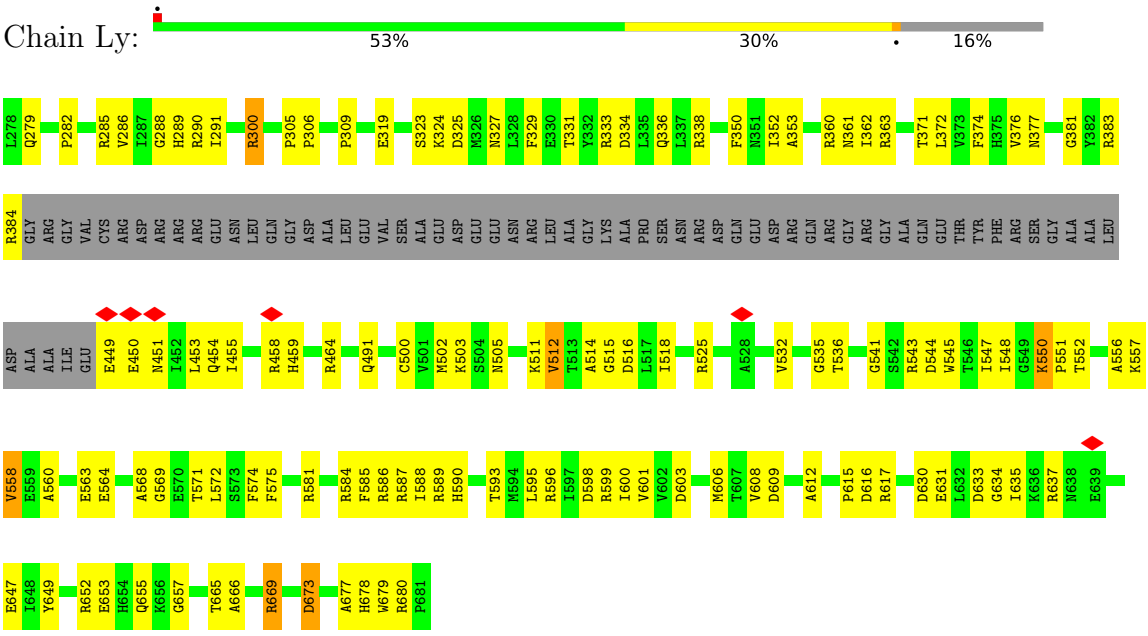




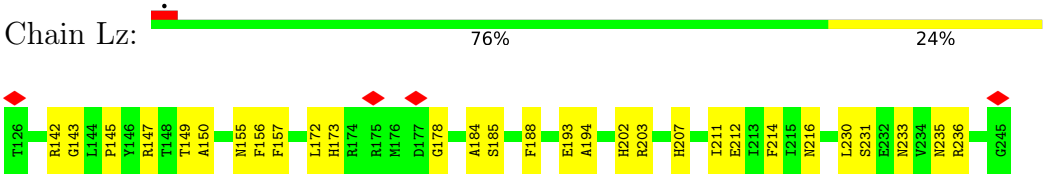
• Molecule 60: mL173



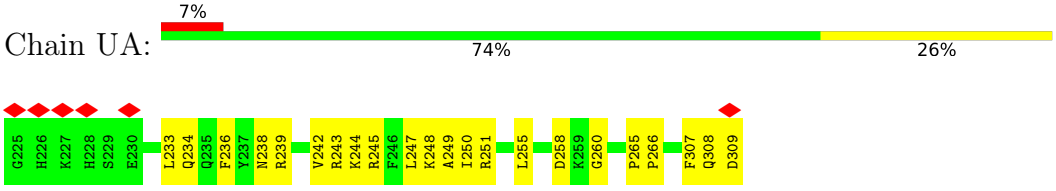
• Molecule 61: Large ribosomal subunit protein bL21m



• Molecule 62: mL182

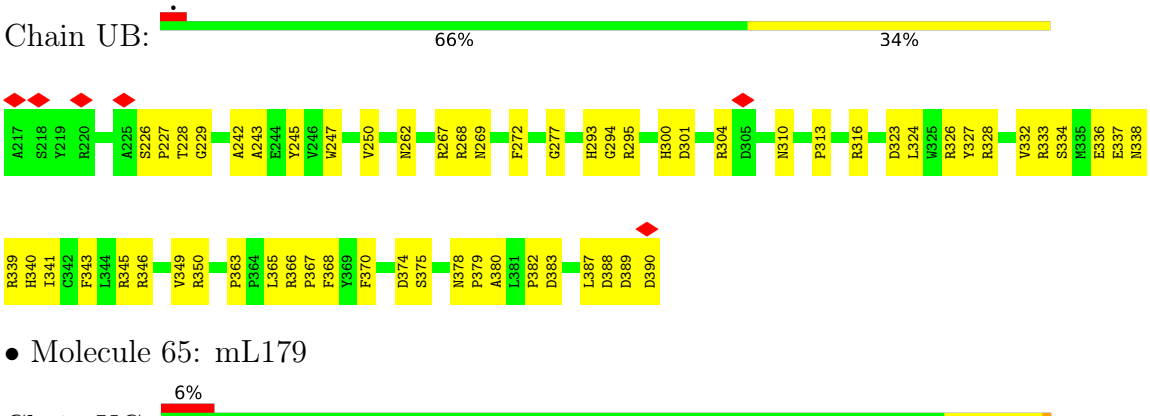


• Molecule 63: mL178



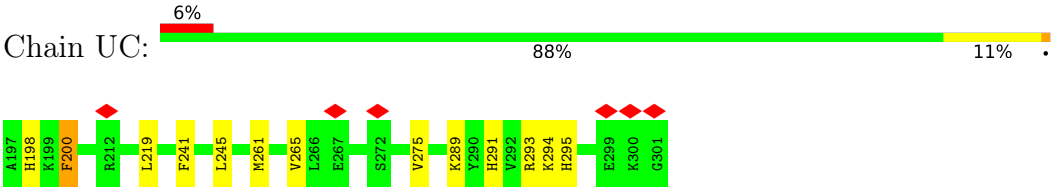
• Molecule 64: bL27m

Chain UB:



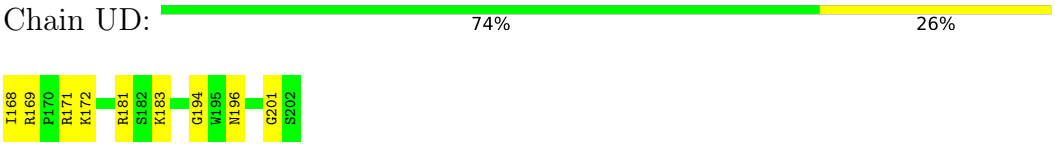
• Molecule 65: mL179

Chain UC:



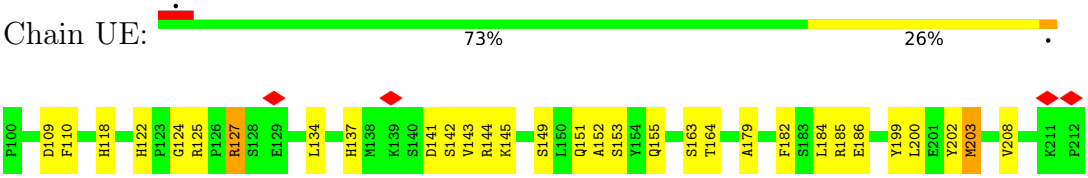
• Molecule 66: Transmembrane protein

Chain UD:



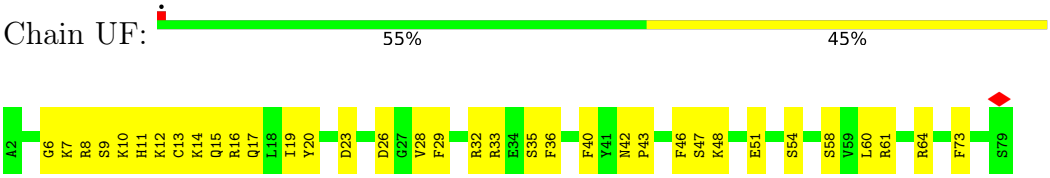
• Molecule 67: mL53

Chain UE:



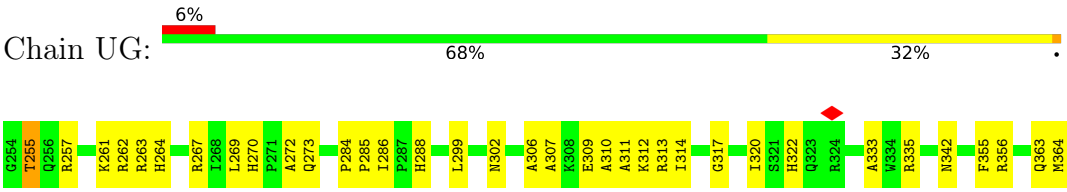
• Molecule 68: bL32m

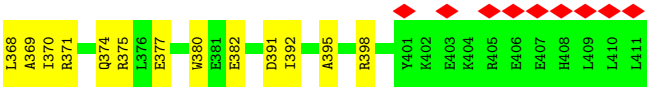
Chain UF:



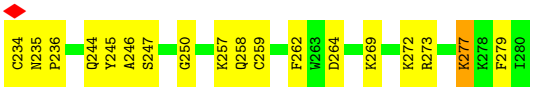
• Molecule 69: AP2 domain transcription factor AP2IV-1

Chain UG:

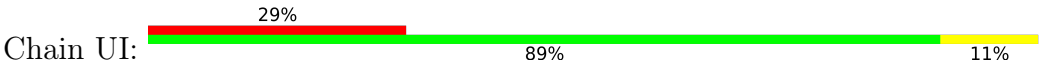


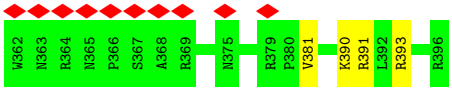


• Molecule 70: mL181

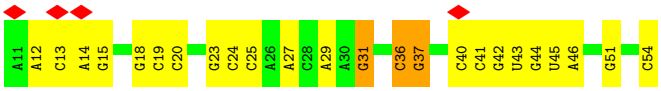


• Molecule 71: mL184

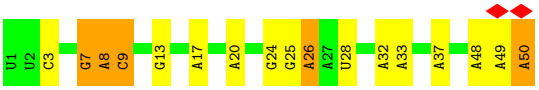




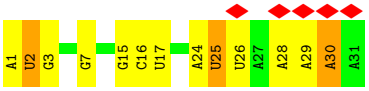
• Molecule 72: RNA23t



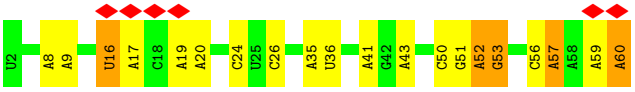
• Molecule 73: RNA29



• Molecule 74: LSUB

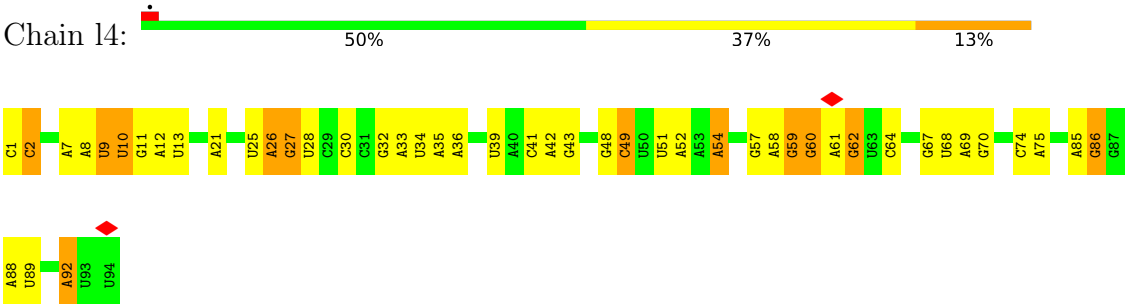


• Molecule 75: RNA6



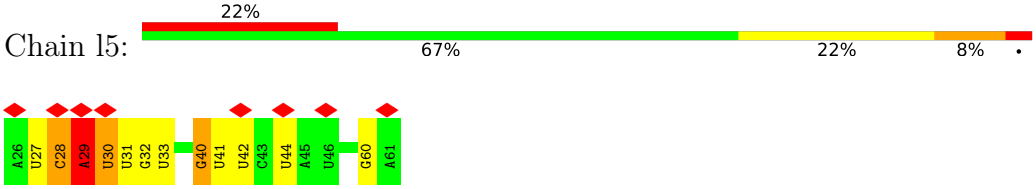
• Molecule 76: RNA1

Chain l4:



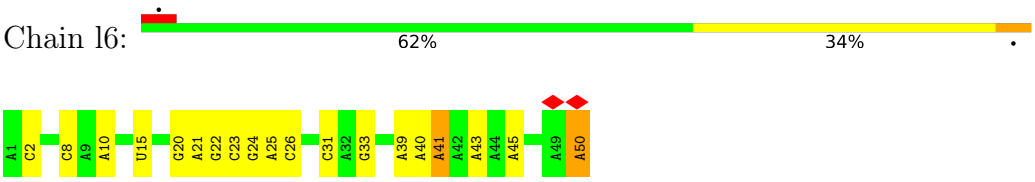
• Molecule 77: RNA31

Chain l5:



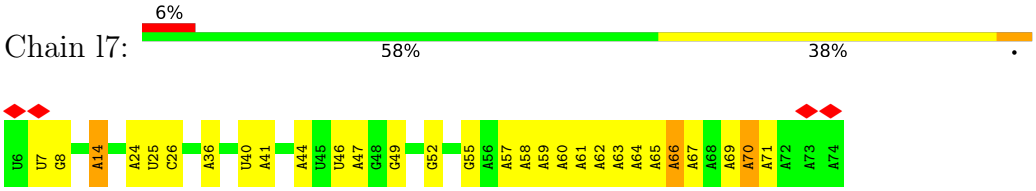
• Molecule 78: RNA14

Chain l6:



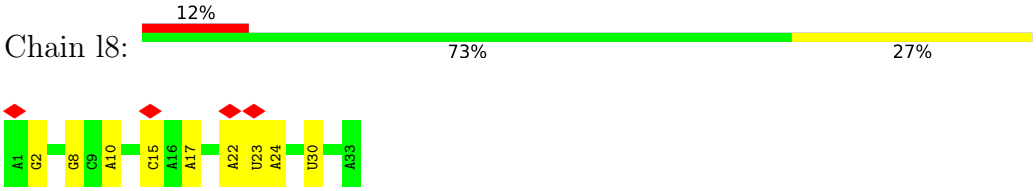
• Molecule 79: RNA11

Chain l7:



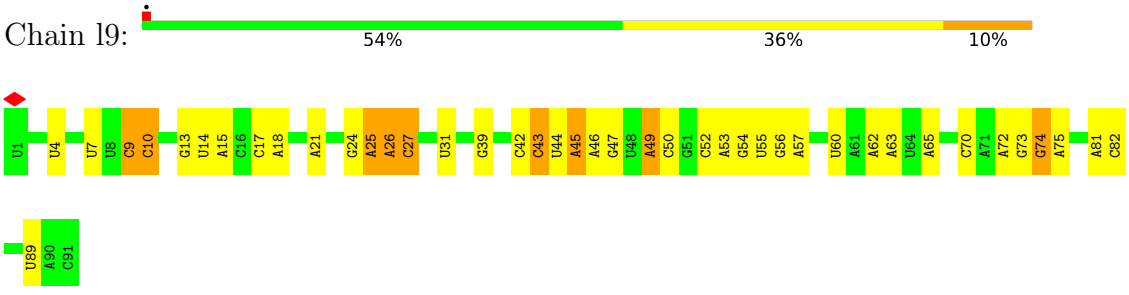
• Molecule 80: RNA36

Chain l8:



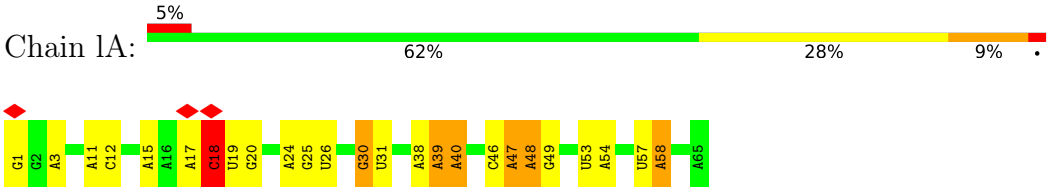
• Molecule 81: RNA3

Chain l9:



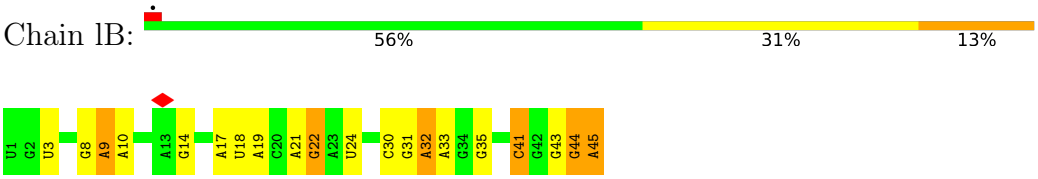
• Molecule 82: RNA2

Chain lA:



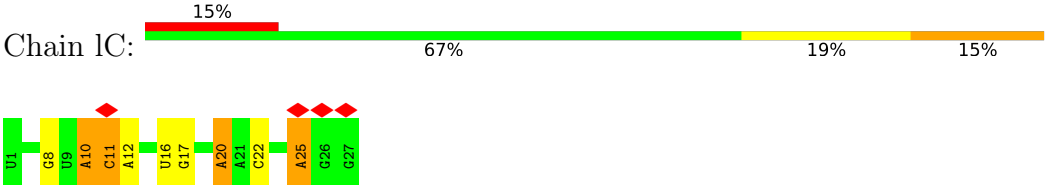
• Molecule 83: RNA38

Chain lB:



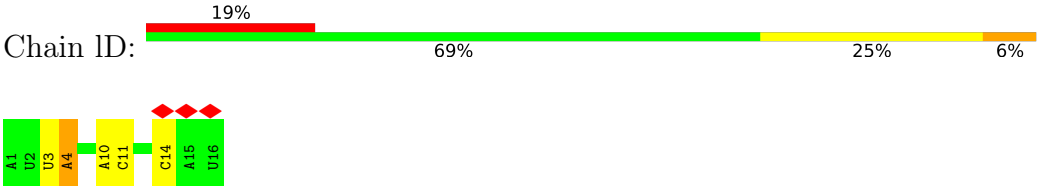
• Molecule 84: RNA35

Chain lC:



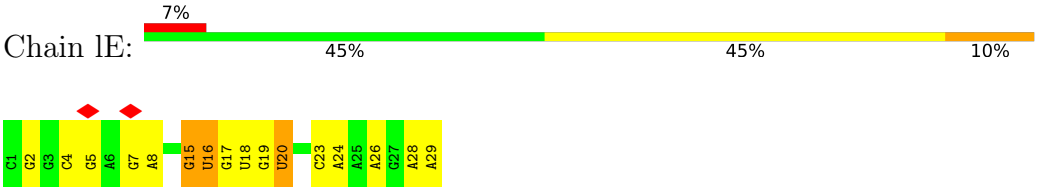
• Molecule 85: RNA32

Chain lD:



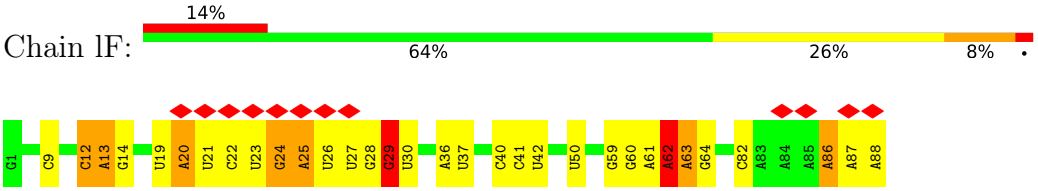
• Molecule 86: RNA15

Chain lE:



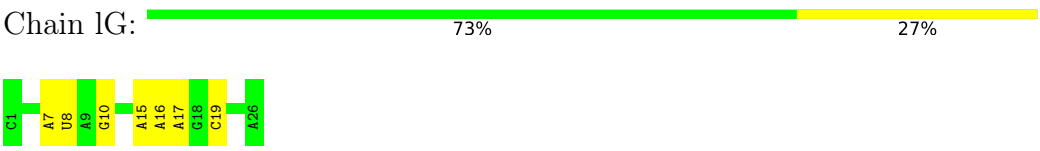
• Molecule 87: RNA10

Chain lF:



• Molecule 88: LSUC

Chain lG:

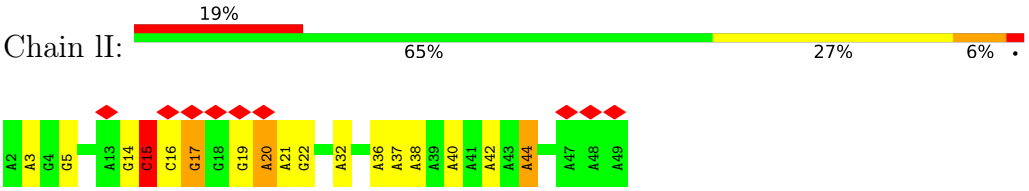


• Molecule 89: RNA16

Chain lH:

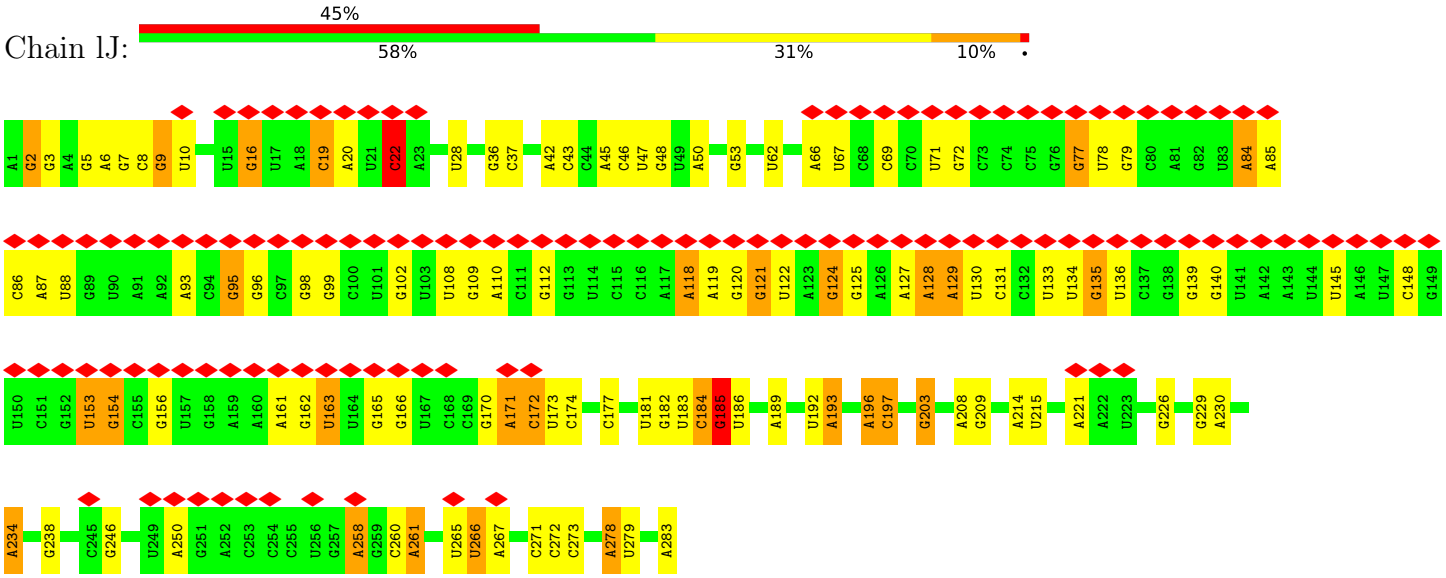
• Molecule 90: RNA13

Chain lI:



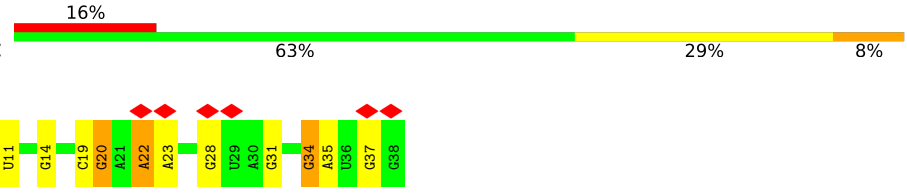
• Molecule 91: LSUD/E

Chain lJ:



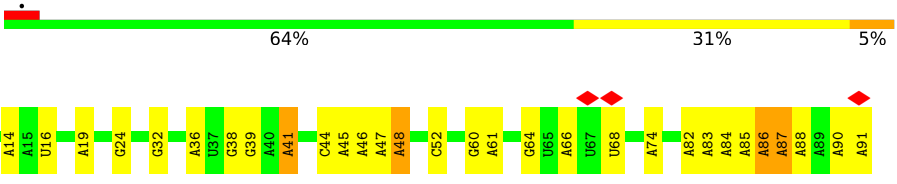
• Molecule 92: SSUF

Chain lK:



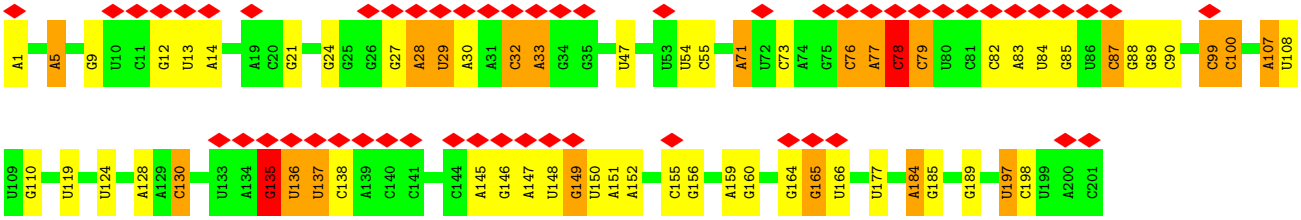
• Molecule 93: RNA7

Chain lL:

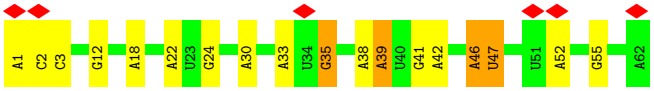


• Molecule 94: LSUF/G

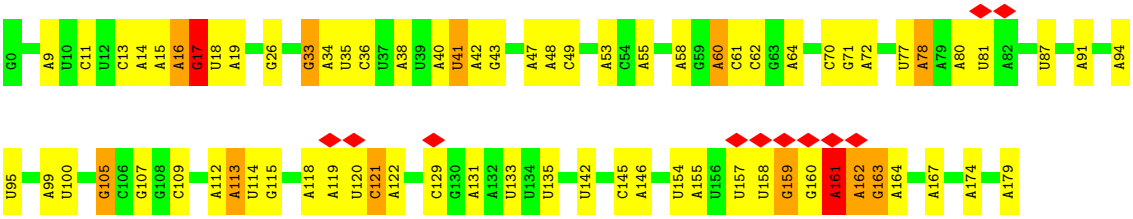
Chain lM:



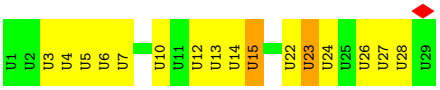
• Molecule 95: RNA37



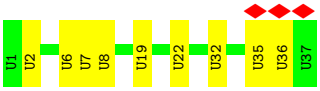
• Molecule 96: LSUA



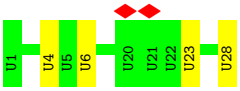
• Molecule 97: ulr1



• Molecule 98: ulr2



• Molecule 99: ulr3

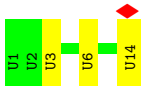


• Molecule 100: ulr4

Chain lS:

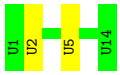
• Molecule 101: ulr5

Chain lT:



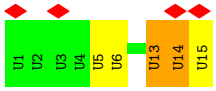
• Molecule 101: ulr5

Chain lW:



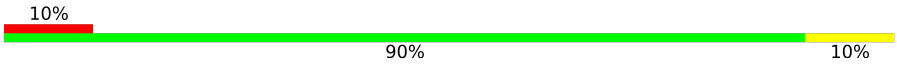
• Molecule 102: ulr6

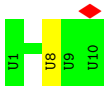
Chain lU:



• Molecule 103: ulr7,ulr8

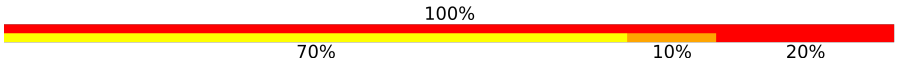
Chain lV:

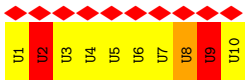




• Molecule 103: ulr7,ulr8

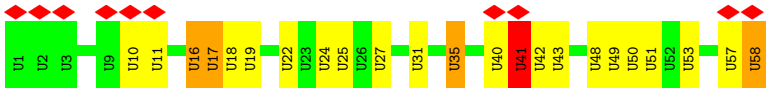
Chain lY:





• Molecule 104: ulr9

Chain lX:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	22169	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	FEI TALOS ARCTICA	Depositor
Voltage (kV)	200	Depositor
Electron dose ($e^-/Å^2$)	50	Depositor
Minimum defocus (nm)	500	Depositor
Maximum defocus (nm)	2500	Depositor
Magnification	59000	Depositor
Image detector	GATAN K2 SUMMIT (4k x 4k)	Depositor
Maximum map value	2.021	Depositor
Minimum map value	-0.059	Depositor
Average map value	0.003	Depositor
Map value standard deviation	0.032	Depositor
Recommended contour level	0.15	Depositor
Map size (Å)	520.785, 520.785, 520.785	wwPDB
Map dimensions	450, 450, 450	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.1573, 1.1573, 1.1573	Depositor

5 Model quality (i)

5.1 Standard geometry (i)

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

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#$\|Z\|$ >5	RMSZ	#$\|Z\|$ >5
1	L0	2.39	105/3065 (3.4%)	2.22	224/4138 (5.4%)
2	L1	2.13	19/789 (2.4%)	2.03	37/1064 (3.5%)
3	L2	1.81	39/2147 (1.8%)	1.80	99/2899 (3.4%)
4	L3	2.12	57/2259 (2.5%)	2.04	94/3068 (3.1%)
5	L4	1.44	53/3505 (1.5%)	1.35	96/4737 (2.0%)
6	L5	3.00	21/270 (7.8%)	2.60	21/355 (5.9%)
7	L6	1.69	10/491 (2.0%)	1.49	9/664 (1.4%)
8	L7	2.03	30/920 (3.3%)	1.93	47/1230 (3.8%)
9	L8	2.20	70/2066 (3.4%)	1.99	114/2794 (4.1%)
10	L9	1.01	26/3996 (0.7%)	1.01	44/5422 (0.8%)
11	LA	2.28	65/1758 (3.7%)	2.06	97/2387 (4.1%)
12	LB	2.33	37/1059 (3.5%)	2.21	82/1427 (5.7%)
13	LC	2.07	86/2963 (2.9%)	1.97	200/4015 (5.0%)
14	LD	2.18	44/1900 (2.3%)	2.12	123/2566 (4.8%)
15	LE	1.66	36/2172 (1.7%)	1.59	27/2948 (0.9%)
16	LF	1.91	19/757 (2.5%)	1.68	21/1025 (2.0%)
17	LG	1.52	20/1295 (1.5%)	1.45	28/1758 (1.6%)
18	LH	2.14	18/707 (2.5%)	1.97	33/953 (3.5%)
19	LI	1.93	14/628 (2.2%)	1.95	41/840 (4.9%)
20	LJ	2.39	140/3731 (3.8%)	2.23	297/5048 (5.9%)
21	LK	2.02	46/1961 (2.3%)	1.95	87/2643 (3.3%)
22	LL	1.52	66/4945 (1.3%)	1.46	170/6705 (2.5%)
23	LM	2.01	32/1403 (2.3%)	1.95	88/1893 (4.6%)
24	LN	2.67	41/1009 (4.1%)	2.57	101/1346 (7.5%)
25	LO	2.31	104/2708 (3.8%)	2.11	182/3659 (5.0%)
26	LP	2.03	46/1683 (2.7%)	1.86	72/2272 (3.2%)
27	LQ	2.73	33/614 (5.4%)	2.61	66/822 (8.0%)
28	LR	2.49	33/757 (4.4%)	2.28	49/1018 (4.8%)
29	LS	2.00	27/1858 (1.5%)	2.00	103/2522 (4.1%)
30	LT	1.97	25/986 (2.5%)	1.85	40/1317 (3.0%)
31	LU	2.37	19/635 (3.0%)	2.21	43/858 (5.0%)
32	LV	1.90	103/5258 (2.0%)	1.81	258/7127 (3.6%)
33	LW	2.28	79/2500 (3.2%)	2.19	151/3377 (4.5%)
34	LX	2.24	19/797 (2.4%)	2.20	55/1071 (5.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
35	LY	2.02	62/2977 (2.1%)	1.94	159/3997 (4.0%)
36	LZ	2.18	56/1638 (3.4%)	2.04	105/2217 (4.7%)
37	La	2.27	57/1823 (3.1%)	2.15	113/2471 (4.6%)
38	Lb	2.54	209/5031 (4.2%)	2.41	478/6788 (7.0%)
39	Lc	2.33	135/3872 (3.5%)	2.23	303/5251 (5.8%)
40	Ld	2.00	88/3576 (2.5%)	1.90	216/4852 (4.5%)
41	Le	1.91	77/3118 (2.5%)	1.84	151/4192 (3.6%)
42	Lf	1.79	30/1751 (1.7%)	1.75	71/2364 (3.0%)
43	Lg	2.30	54/1862 (2.9%)	2.23	111/2499 (4.4%)
44	Lh	2.06	87/3781 (2.3%)	1.94	186/5115 (3.6%)
45	Li	1.83	97/3927 (2.5%)	1.65	162/5332 (3.0%)
46	Lj	2.57	50/994 (5.0%)	2.35	89/1333 (6.7%)
47	Lk	1.92	32/1544 (2.1%)	1.95	86/2074 (4.1%)
48	Ll	2.22	55/1618 (3.4%)	2.04	106/2181 (4.9%)
49	Lm	2.21	39/1525 (2.6%)	2.25	133/2043 (6.5%)
50	Ln	1.99	11/457 (2.4%)	1.92	14/624 (2.2%)
51	Lo	2.42	89/2288 (3.9%)	2.23	167/3100 (5.4%)
52	Lp	2.34	120/3153 (3.8%)	2.18	187/4245 (4.4%)
53	Lq	1.77	113/5374 (2.1%)	1.63	203/7299 (2.8%)
54	Lr	1.71	47/2409 (2.0%)	1.65	76/3241 (2.3%)
55	Ls	2.02	85/2617 (3.2%)	1.84	112/3512 (3.2%)
56	Lt	2.42	64/1604 (4.0%)	2.19	134/2174 (6.2%)
57	Lu	2.01	30/1873 (1.6%)	1.98	98/2532 (3.9%)
58	Lv	1.94	13/952 (1.4%)	1.92	46/1286 (3.6%)
59	Lw	1.89	32/1477 (2.2%)	1.81	60/1994 (3.0%)
60	Lx	2.19	26/812 (3.2%)	2.00	37/1093 (3.4%)
61	Ly	2.34	96/2895 (3.3%)	2.21	180/3911 (4.6%)
62	Lz	2.09	26/1021 (2.5%)	1.94	43/1377 (3.1%)
63	UA	1.87	13/728 (1.8%)	1.82	26/976 (2.7%)
64	UB	2.15	49/1489 (3.3%)	2.03	84/2016 (4.2%)
65	UC	1.04	6/890 (0.7%)	0.99	9/1201 (0.7%)
66	UD	1.98	7/316 (2.2%)	1.89	10/416 (2.4%)
67	UE	1.92	20/960 (2.1%)	1.82	53/1289 (4.1%)
68	UF	2.42	23/698 (3.3%)	2.36	60/935 (6.4%)
69	UG	2.27	46/1377 (3.3%)	2.10	80/1856 (4.3%)
70	UH	2.11	5/408 (1.2%)	2.39	30/537 (5.6%)
71	UI	1.71	6/298 (2.0%)	1.66	5/393 (1.3%)
72	l0	1.04	6/1046 (0.6%)	0.80	1/1627 (0.1%)
73	l1	1.44	6/1199 (0.5%)	1.03	2/1866 (0.1%)
74	l2	1.46	6/738 (0.8%)	1.09	1/1147 (0.1%)
75	l3	1.50	8/1403 (0.6%)	1.05	2/2182 (0.1%)
76	l4	1.57	21/2225 (0.9%)	1.11	2/3461 (0.1%)
77	l5	1.34	5/849 (0.6%)	0.97	0/1319

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	#|Z| >5	RMSZ	#|Z| >5
78	l6	1.35	11/1204 (0.9%)	0.98	1/1873 (0.1%)
79	l7	1.42	17/1663 (1.0%)	1.03	0/2589
80	l8	0.71	0/793	0.69	0/1233
81	l9	1.60	25/2152 (1.2%)	1.11	1/3347 (0.0%)
82	lA	1.17	8/1553 (0.5%)	0.89	0/2417
83	lB	1.54	9/1108 (0.8%)	1.07	2/1730 (0.1%)
84	lC	1.04	3/653 (0.5%)	0.86	1/1014 (0.1%)
85	lD	1.78	4/378 (1.1%)	1.17	0/585
86	lE	1.45	5/708 (0.7%)	1.06	0/1103
87	lF	1.32	12/2105 (0.6%)	0.96	0/3278
88	lG	1.04	3/630 (0.5%)	0.77	0/980
89	lH	1.01	0/638	0.84	3/991 (0.3%)
90	lI	1.39	13/1169 (1.1%)	1.00	0/1821
91	lJ	1.36	45/6628 (0.7%)	0.99	7/10319 (0.1%)
92	lK	1.12	4/921 (0.4%)	0.87	1/1435 (0.1%)
93	lL	1.47	25/2185 (1.1%)	1.04	1/3402 (0.0%)
94	lM	1.16	21/4604 (0.5%)	0.87	3/7167 (0.0%)
95	lN	1.29	11/1473 (0.7%)	0.91	1/2290 (0.0%)
96	lO	1.53	36/4302 (0.8%)	1.08	6/6700 (0.1%)
97	lP	1.49	0/637	1.18	0/982
98	lQ	1.38	0/813	1.03	0/1254
99	lR	1.67	0/615	1.26	0/948
100	lS	0.05	0/153	0.14	0/234
101	lT	1.30	0/307	0.91	0/472
101	lW	1.31	0/307	1.02	0/472
102	lU	1.45	0/329	1.11	1/506 (0.2%)
103	lV	1.53	0/219	1.10	0/336
103	lY	0.96	0/219	1.67	3/336 (0.9%)
104	lX	1.10	0/1275	0.90	1/1968 (0.1%)
All	All	1.91	3941/183926 (2.1%)	1.74	7422/258068 (2.9%)

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

Mol	Chain	#Chirality outliers	#Planarity outliers
2	L1	0	1
22	LL	0	1
37	La	0	1
40	Ld	0	1
53	Lq	0	1

Continued on next page...

Continued from previous page...

Mol	Chain	#Chirality outliers	#Planarity outliers
61	Ly	0	1
72	l0	0	1
78	l6	0	1
79	l7	0	1
80	l8	0	1
82	lA	0	2
84	lC	0	3
91	lJ	0	5
92	lK	0	2
94	lM	0	3
95	lN	0	1
96	lO	0	1
97	lP	0	1
101	lW	0	1
103	lY	0	6
104	lX	0	1
All	All	0	36

All (3941) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
45	Li	677	PRO	CA-CB	-9.90	1.46	1.53
53	Lq	673	ALA	CA-CB	-9.54	1.42	1.53
43	Lg	160	PRO	CA-CB	-9.38	1.47	1.53
17	LG	162	ALA	CA-CB	-9.35	1.41	1.52
23	LM	14	ALA	CA-CB	-9.34	1.43	1.54
39	Lc	534	HIS	ND1-CE1	-9.27	1.23	1.32
39	Lc	595	HIS	ND1-CE1	-9.22	1.23	1.32
39	Lc	595	HIS	CE1-NE2	-9.21	1.23	1.32
22	LL	943	ALA	CA-CB	-9.16	1.42	1.54
39	Lc	534	HIS	CE1-NE2	-9.11	1.23	1.32
25	LO	198	ALA	CA-CB	-9.08	1.43	1.53
14	LD	394	HIS	ND1-CE1	-8.95	1.23	1.32
2	L1	427	HIS	ND1-CE1	-8.94	1.23	1.32
39	Lc	602	HIS	CE1-NE2	-8.94	1.23	1.32
51	Lo	93	HIS	CE1-NE2	-8.94	1.23	1.32
38	Lb	688	HIS	CE1-NE2	-8.94	1.23	1.32
51	Lo	91	HIS	CE1-NE2	-8.91	1.23	1.32
32	LV	602	HIS	CE1-NE2	-8.91	1.23	1.32
54	Lr	101	HIS	CE1-NE2	-8.90	1.23	1.32
20	LJ	311	HIS	ND1-CE1	-8.89	1.23	1.32
40	Ld	595	HIS	CE1-NE2	-8.89	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	Lt	108	HIS	CE1-NE2	-8.88	1.23	1.32
4	L3	736	HIS	CE1-NE2	-8.88	1.23	1.32
55	Ls	388	HIS	CE1-NE2	-8.88	1.23	1.32
37	La	29	HIS	CE1-NE2	-8.87	1.23	1.32
14	LD	494	HIS	CE1-NE2	-8.87	1.23	1.32
19	LI	44	HIS	CE1-NE2	-8.87	1.23	1.32
38	Lb	780	HIS	CE1-NE2	-8.87	1.23	1.32
21	LK	251	HIS	CE1-NE2	-8.86	1.23	1.32
53	Lq	481	HIS	CE1-NE2	-8.86	1.23	1.32
62	Lz	173	HIS	ND1-CE1	-8.86	1.23	1.32
45	Li	689	HIS	ND1-CE1	-8.86	1.23	1.32
33	LW	467	HIS	CE1-NE2	-8.85	1.23	1.32
55	Ls	390	HIS	CE1-NE2	-8.85	1.23	1.32
56	Lt	228	HIS	CE1-NE2	-8.85	1.23	1.32
61	Ly	590	HIS	CE1-NE2	-8.85	1.23	1.32
1	L0	383	HIS	CE1-NE2	-8.85	1.23	1.32
1	L0	388	HIS	CE1-NE2	-8.85	1.23	1.32
44	Lh	512	HIS	ND1-CE1	-8.84	1.23	1.32
16	LF	185	HIS	ND1-CE1	-8.84	1.23	1.32
33	LW	466	HIS	CE1-NE2	-8.84	1.23	1.32
38	Lb	578	HIS	CE1-NE2	-8.84	1.23	1.32
53	Lq	650	HIS	CE1-NE2	-8.84	1.23	1.32
44	Lh	508	HIS	ND1-CE1	-8.84	1.23	1.32
9	L8	27	HIS	ND1-CE1	-8.84	1.23	1.32
20	LJ	42	HIS	CE1-NE2	-8.84	1.23	1.32
20	LJ	297	HIS	ND1-CE1	-8.84	1.23	1.32
60	Lx	303	HIS	CE1-NE2	-8.84	1.23	1.32
60	Lx	349	HIS	CE1-NE2	-8.83	1.23	1.32
1	L0	391	HIS	CE1-NE2	-8.83	1.23	1.32
25	LO	131	HIS	CE1-NE2	-8.83	1.23	1.32
26	LP	187	HIS	CE1-NE2	-8.83	1.23	1.32
30	LT	55	HIS	CE1-NE2	-8.83	1.23	1.32
25	LO	113	HIS	CE1-NE2	-8.83	1.23	1.32
39	Lc	602	HIS	ND1-CE1	-8.83	1.23	1.32
39	Lc	454	HIS	CE1-NE2	-8.83	1.23	1.32
9	L8	27	HIS	CE1-NE2	-8.82	1.23	1.32
21	LK	162	HIS	CE1-NE2	-8.82	1.23	1.32
44	Lh	502	HIS	CE1-NE2	-8.82	1.23	1.32
52	Lp	460	HIS	CE1-NE2	-8.82	1.23	1.32
60	Lx	303	HIS	ND1-CE1	-8.82	1.23	1.32
11	LA	114	HIS	CE1-NE2	-8.82	1.23	1.32
39	Lc	460	HIS	CE1-NE2	-8.82	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	LW	469	HIS	CE1-NE2	-8.82	1.23	1.32
45	Li	364	HIS	CE1-NE2	-8.82	1.23	1.32
45	Li	585	HIS	CE1-NE2	-8.82	1.23	1.32
35	LY	475	HIS	CE1-NE2	-8.82	1.23	1.32
4	L3	662	HIS	CE1-NE2	-8.81	1.23	1.32
25	LO	303	HIS	CE1-NE2	-8.81	1.23	1.32
28	LR	23	HIS	ND1-CE1	-8.81	1.23	1.32
33	LW	242	HIS	CE1-NE2	-8.81	1.23	1.32
57	Lu	494	HIS	CE1-NE2	-8.81	1.23	1.32
48	Ll	104	HIS	ND1-CE1	-8.81	1.23	1.32
57	Lu	271	HIS	ND1-CE1	-8.81	1.23	1.32
10	L9	460	HIS	ND1-CE1	-8.81	1.23	1.32
14	LD	338	HIS	ND1-CE1	-8.81	1.23	1.32
24	LN	268	HIS	CE1-NE2	-8.81	1.23	1.32
26	LP	114	HIS	ND1-CE1	-8.81	1.23	1.32
28	LR	23	HIS	CE1-NE2	-8.81	1.23	1.32
32	LV	249	ALA	CA-CB	-8.81	1.43	1.54
52	Lp	605	HIS	ND1-CE1	-8.81	1.23	1.32
52	Lp	631	HIS	CE1-NE2	-8.81	1.23	1.32
56	Lt	255	HIS	ND1-CE1	-8.81	1.23	1.32
4	L3	662	HIS	ND1-CE1	-8.81	1.23	1.32
9	L8	93	HIS	CE1-NE2	-8.80	1.23	1.32
24	LN	325	HIS	ND1-CE1	-8.80	1.23	1.32
69	UG	264	HIS	CE1-NE2	-8.80	1.23	1.32
11	LA	184	HIS	CE1-NE2	-8.80	1.23	1.32
52	Lp	460	HIS	ND1-CE1	-8.80	1.23	1.32
64	UB	293	HIS	CE1-NE2	-8.80	1.23	1.32
5	L4	194	HIS	CE1-NE2	-8.80	1.23	1.32
25	LO	8	HIS	CE1-NE2	-8.80	1.23	1.32
33	LW	389	HIS	CE1-NE2	-8.80	1.23	1.32
56	Lt	260	HIS	CE1-NE2	-8.80	1.23	1.32
13	LC	240	HIS	CE1-NE2	-8.80	1.23	1.32
39	Lc	589	HIS	ND1-CE1	-8.80	1.23	1.32
62	Lz	202	HIS	CE1-NE2	-8.80	1.23	1.32
32	LV	593	HIS	CE1-NE2	-8.80	1.23	1.32
48	Ll	92	HIS	CE1-NE2	-8.80	1.23	1.32
57	Lu	260	HIS	CE1-NE2	-8.80	1.23	1.32
61	Ly	678	HIS	CE1-NE2	-8.80	1.23	1.32
69	UG	322	HIS	CE1-NE2	-8.80	1.23	1.32
9	L8	28	HIS	CE1-NE2	-8.80	1.23	1.32
33	LW	396	HIS	CE1-NE2	-8.79	1.23	1.32
26	LP	152	HIS	CE1-NE2	-8.79	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	364	HIS	CE1-NE2	-8.79	1.23	1.32
20	LJ	263	HIS	CE1-NE2	-8.79	1.23	1.32
26	LP	167	HIS	CE1-NE2	-8.79	1.23	1.32
38	Lb	659	HIS	CE1-NE2	-8.79	1.23	1.32
40	Ld	493	HIS	CE1-NE2	-8.79	1.23	1.32
45	Li	364	HIS	ND1-CE1	-8.79	1.23	1.32
16	LF	132	HIS	CE1-NE2	-8.79	1.23	1.32
33	LW	467	HIS	ND1-CE1	-8.79	1.23	1.32
36	LZ	43	HIS	CE1-NE2	-8.79	1.23	1.32
1	L0	626	HIS	ND1-CE1	-8.79	1.23	1.32
35	LY	402	HIS	ND1-CE1	-8.79	1.23	1.32
45	Li	689	HIS	CE1-NE2	-8.79	1.23	1.32
57	Lu	271	HIS	CE1-NE2	-8.79	1.23	1.32
59	Lw	149	HIS	CE1-NE2	-8.79	1.23	1.32
67	UE	122	HIS	CE1-NE2	-8.79	1.23	1.32
11	LA	21	HIS	CE1-NE2	-8.79	1.23	1.32
31	LU	297	HIS	CE1-NE2	-8.79	1.23	1.32
10	L9	460	HIS	CE1-NE2	-8.78	1.23	1.32
20	LJ	263	HIS	ND1-CE1	-8.78	1.23	1.32
25	LO	243	HIS	CE1-NE2	-8.78	1.23	1.32
40	Ld	534	HIS	ND1-CE1	-8.78	1.23	1.32
39	Lc	589	HIS	CE1-NE2	-8.78	1.23	1.32
48	Ll	37	HIS	CE1-NE2	-8.78	1.23	1.32
4	L3	688	HIS	ND1-CE1	-8.78	1.23	1.32
14	LD	338	HIS	CE1-NE2	-8.78	1.23	1.32
24	LN	325	HIS	CE1-NE2	-8.78	1.23	1.32
25	LO	163	HIS	ND1-CE1	-8.78	1.23	1.32
44	Lh	339	HIS	CE1-NE2	-8.78	1.23	1.32
33	LW	396	HIS	ND1-CE1	-8.78	1.23	1.32
5	L4	314	HIS	CE1-NE2	-8.78	1.23	1.32
22	LL	947	HIS	CE1-NE2	-8.78	1.23	1.32
25	LO	305	HIS	ND1-CE1	-8.78	1.23	1.32
44	Lh	548	HIS	CE1-NE2	-8.77	1.23	1.32
11	LA	114	HIS	ND1-CE1	-8.77	1.23	1.32
11	LA	186	HIS	CE1-NE2	-8.77	1.23	1.32
38	Lb	356	HIS	ND1-CE1	-8.77	1.23	1.32
39	Lc	493	HIS	CE1-NE2	-8.77	1.23	1.32
44	Lh	718	HIS	ND1-CE1	-8.77	1.23	1.32
45	Li	534	HIS	CE1-NE2	-8.77	1.23	1.32
51	Lo	294	HIS	ND1-CE1	-8.77	1.23	1.32
61	Ly	590	HIS	ND1-CE1	-8.77	1.23	1.32
68	UF	11	HIS	CE1-NE2	-8.77	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
31	LU	264	HIS	CE1-NE2	-8.77	1.23	1.32
38	Lb	637	HIS	ND1-CE1	-8.77	1.23	1.32
1	L0	391	HIS	ND1-CE1	-8.77	1.23	1.32
4	L3	688	HIS	CE1-NE2	-8.77	1.23	1.32
20	LJ	297	HIS	CE1-NE2	-8.77	1.23	1.32
22	LL	209	HIS	CE1-NE2	-8.77	1.23	1.32
37	La	197	HIS	CE1-NE2	-8.77	1.23	1.32
39	Lc	301	HIS	CE1-NE2	-8.77	1.23	1.32
51	Lo	238	HIS	ND1-CE1	-8.77	1.23	1.32
26	LP	82	HIS	CE1-NE2	-8.77	1.23	1.32
35	LY	267	HIS	CE1-NE2	-8.77	1.23	1.32
40	Ld	500	HIS	CE1-NE2	-8.77	1.23	1.32
22	LL	947	HIS	ND1-CE1	-8.76	1.23	1.32
32	LV	893	HIS	CE1-NE2	-8.76	1.23	1.32
37	La	197	HIS	ND1-CE1	-8.76	1.23	1.32
38	Lb	578	HIS	ND1-CE1	-8.76	1.23	1.32
45	Li	569	HIS	ND1-CE1	-8.76	1.23	1.32
54	Lr	101	HIS	ND1-CE1	-8.76	1.23	1.32
61	Ly	459	HIS	CE1-NE2	-8.76	1.23	1.32
69	UG	288	HIS	ND1-CE1	-8.76	1.23	1.32
11	LA	18	HIS	CE1-NE2	-8.76	1.23	1.32
59	Lw	149	HIS	ND1-CE1	-8.76	1.23	1.32
16	LF	132	HIS	ND1-CE1	-8.76	1.23	1.32
38	Lb	364	HIS	ND1-CE1	-8.76	1.23	1.32
65	UC	295	HIS	CE1-NE2	-8.76	1.23	1.32
53	Lq	184	HIS	CE1-NE2	-8.76	1.23	1.32
7	L6	251	HIS	CE1-NE2	-8.76	1.23	1.32
29	LS	115	HIS	CE1-NE2	-8.76	1.23	1.32
51	Lo	236	HIS	CE1-NE2	-8.76	1.23	1.32
51	Lo	294	HIS	CE1-NE2	-8.76	1.23	1.32
61	Ly	289	HIS	ND1-CE1	-8.76	1.23	1.32
40	Ld	534	HIS	CE1-NE2	-8.76	1.23	1.32
48	Ll	10	HIS	ND1-CE1	-8.76	1.23	1.32
26	LP	128	HIS	CE1-NE2	-8.75	1.23	1.32
33	LW	472	HIS	CE1-NE2	-8.75	1.23	1.32
45	Li	478	HIS	CE1-NE2	-8.75	1.23	1.32
38	Lb	780	HIS	ND1-CE1	-8.75	1.23	1.32
62	Lz	207	HIS	CE1-NE2	-8.75	1.23	1.32
20	LJ	311	HIS	CE1-NE2	-8.75	1.23	1.32
22	LL	385	HIS	ND1-CE1	-8.75	1.23	1.32
44	Lh	516	HIS	CE1-NE2	-8.75	1.23	1.32
45	Li	697	HIS	CE1-NE2	-8.75	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
46	Lj	20	HIS	CE1-NE2	-8.75	1.23	1.32
48	Ll	34	HIS	ND1-CE1	-8.75	1.23	1.32
49	Lm	257	HIS	CE1-NE2	-8.75	1.23	1.32
53	Lq	667	HIS	ND1-CE1	-8.75	1.23	1.32
13	LC	457	HIS	CE1-NE2	-8.75	1.23	1.32
20	LJ	133	HIS	ND1-CE1	-8.75	1.23	1.32
22	LL	315	HIS	ND1-CE1	-8.75	1.23	1.32
36	LZ	43	HIS	ND1-CE1	-8.75	1.23	1.32
32	LV	893	HIS	ND1-CE1	-8.75	1.23	1.32
22	LL	209	HIS	ND1-CE1	-8.74	1.23	1.32
40	Ld	595	HIS	ND1-CE1	-8.74	1.23	1.32
5	L4	278	HIS	ND1-CE1	-8.74	1.23	1.32
11	LA	21	HIS	ND1-CE1	-8.74	1.23	1.32
24	LN	298	HIS	ND1-CE1	-8.74	1.23	1.32
26	LP	128	HIS	ND1-CE1	-8.74	1.23	1.32
51	Lo	238	HIS	CE1-NE2	-8.74	1.23	1.32
26	LP	167	HIS	ND1-CE1	-8.74	1.23	1.32
9	L8	166	HIS	ND1-CE1	-8.74	1.23	1.32
33	LW	469	HIS	ND1-CE1	-8.74	1.23	1.32
1	L0	433	HIS	ND1-CE1	-8.74	1.23	1.32
29	LS	115	HIS	ND1-CE1	-8.74	1.23	1.32
35	LY	503	HIS	ND1-CE1	-8.74	1.23	1.32
44	Lh	516	HIS	ND1-CE1	-8.74	1.23	1.32
58	Lv	50	HIS	CE1-NE2	-8.74	1.23	1.32
61	Ly	678	HIS	ND1-CE1	-8.74	1.23	1.32
1	L0	605	HIS	CE1-NE2	-8.74	1.23	1.32
25	LO	163	HIS	CE1-NE2	-8.74	1.23	1.32
38	Lb	659	HIS	ND1-CE1	-8.74	1.23	1.32
39	Lc	301	HIS	ND1-CE1	-8.74	1.23	1.32
50	Ln	160	HIS	ND1-CE1	-8.74	1.23	1.32
52	Lp	380	HIS	CE1-NE2	-8.74	1.23	1.32
2	L1	438	HIS	ND1-CE1	-8.73	1.23	1.32
30	LT	55	HIS	ND1-CE1	-8.73	1.23	1.32
49	Lm	257	HIS	ND1-CE1	-8.73	1.23	1.32
13	LC	240	HIS	ND1-CE1	-8.73	1.23	1.32
14	LD	552	HIS	CE1-NE2	-8.73	1.23	1.32
22	LL	296	HIS	CE1-NE2	-8.73	1.23	1.32
31	LU	264	HIS	ND1-CE1	-8.73	1.23	1.32
69	UG	264	HIS	ND1-CE1	-8.73	1.23	1.32
41	Le	420	HIS	ND1-CE1	-8.73	1.23	1.32
45	Li	569	HIS	CE1-NE2	-8.73	1.23	1.32
62	Lz	202	HIS	ND1-CE1	-8.73	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	286	HIS	CE1-NE2	-8.73	1.23	1.32
39	Lc	215	HIS	CE1-NE2	-8.73	1.23	1.32
56	Lt	255	HIS	CE1-NE2	-8.73	1.23	1.32
68	UF	11	HIS	ND1-CE1	-8.73	1.23	1.32
33	LW	389	HIS	ND1-CE1	-8.73	1.23	1.32
35	LY	475	HIS	ND1-CE1	-8.73	1.23	1.32
39	Lc	493	HIS	ND1-CE1	-8.73	1.23	1.32
52	Lp	631	HIS	ND1-CE1	-8.73	1.23	1.32
64	UB	293	HIS	ND1-CE1	-8.73	1.23	1.32
67	UE	137	HIS	ND1-CE1	-8.73	1.23	1.32
50	Ln	136	HIS	CE1-NE2	-8.72	1.23	1.32
52	Lp	504	HIS	CE1-NE2	-8.72	1.23	1.32
44	Lh	508	HIS	CE1-NE2	-8.72	1.23	1.32
44	Lh	548	HIS	ND1-CE1	-8.72	1.23	1.32
45	Li	585	HIS	ND1-CE1	-8.72	1.23	1.32
50	Ln	136	HIS	ND1-CE1	-8.72	1.23	1.32
57	Lu	260	HIS	ND1-CE1	-8.72	1.23	1.32
59	Lw	114	HIS	ND1-CE1	-8.72	1.23	1.32
14	LD	494	HIS	ND1-CE1	-8.72	1.23	1.32
24	LN	298	HIS	CE1-NE2	-8.72	1.23	1.32
26	LP	187	HIS	ND1-CE1	-8.72	1.23	1.32
48	Ll	34	HIS	CE1-NE2	-8.72	1.23	1.32
69	UG	322	HIS	ND1-CE1	-8.72	1.23	1.32
35	LY	520	HIS	ND1-CE1	-8.71	1.23	1.32
46	Lj	20	HIS	ND1-CE1	-8.72	1.23	1.32
48	Ll	37	HIS	ND1-CE1	-8.71	1.23	1.32
57	Lu	390	HIS	CE1-NE2	-8.71	1.23	1.32
16	LF	185	HIS	CE1-NE2	-8.71	1.23	1.32
45	Li	688	HIS	ND1-CE1	-8.71	1.23	1.32
53	Lq	132	HIS	ND1-CE1	-8.71	1.23	1.32
55	Ls	340	HIS	CE1-NE2	-8.71	1.23	1.32
9	L8	28	HIS	ND1-CE1	-8.71	1.23	1.32
13	LC	457	HIS	ND1-CE1	-8.71	1.23	1.32
20	LJ	76	HIS	ND1-CE1	-8.71	1.23	1.32
40	Ld	500	HIS	ND1-CE1	-8.71	1.23	1.32
53	Lq	697	HIS	CE1-NE2	-8.71	1.23	1.32
55	Ls	330	HIS	CE1-NE2	-8.71	1.23	1.32
1	L0	377	HIS	CE1-NE2	-8.71	1.23	1.32
31	LU	297	HIS	ND1-CE1	-8.71	1.23	1.32
20	LJ	76	HIS	CE1-NE2	-8.71	1.23	1.32
43	Lg	188	HIS	CE1-NE2	-8.71	1.23	1.32
5	L4	278	HIS	CE1-NE2	-8.71	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	LO	131	HIS	ND1-CE1	-8.71	1.23	1.32
35	LY	402	HIS	CE1-NE2	-8.71	1.23	1.32
35	LY	503	HIS	CE1-NE2	-8.71	1.23	1.32
40	Ld	460	HIS	CE1-NE2	-8.71	1.23	1.32
40	Ld	460	HIS	ND1-CE1	-8.71	1.23	1.32
41	Le	420	HIS	CE1-NE2	-8.71	1.23	1.32
44	Lh	718	HIS	CE1-NE2	-8.71	1.23	1.32
56	Lt	260	HIS	ND1-CE1	-8.71	1.23	1.32
51	Lo	93	HIS	ND1-CE1	-8.70	1.23	1.32
9	L8	166	HIS	CE1-NE2	-8.70	1.23	1.32
53	Lq	132	HIS	CE1-NE2	-8.70	1.23	1.32
1	L0	433	HIS	CE1-NE2	-8.70	1.23	1.32
48	Ll	92	HIS	ND1-CE1	-8.70	1.23	1.32
35	LY	520	HIS	CE1-NE2	-8.70	1.23	1.32
56	Lt	114	HIS	CE1-NE2	-8.70	1.23	1.32
38	Lb	356	HIS	CE1-NE2	-8.70	1.23	1.32
40	Ld	589	HIS	CE1-NE2	-8.70	1.23	1.32
2	L1	438	HIS	CE1-NE2	-8.70	1.23	1.32
7	L6	251	HIS	ND1-CE1	-8.70	1.23	1.32
50	Ln	160	HIS	CE1-NE2	-8.70	1.23	1.32
55	Ls	330	HIS	ND1-CE1	-8.70	1.23	1.32
57	Lu	494	HIS	ND1-CE1	-8.70	1.23	1.32
59	Lw	114	HIS	CE1-NE2	-8.70	1.23	1.32
21	LK	251	HIS	ND1-CE1	-8.69	1.23	1.32
26	LP	82	HIS	ND1-CE1	-8.70	1.23	1.32
42	Lf	190	HIS	CE1-NE2	-8.69	1.23	1.32
45	Li	359	HIS	ND1-CE1	-8.69	1.23	1.32
9	L8	93	HIS	ND1-CE1	-8.69	1.23	1.32
21	LK	162	HIS	ND1-CE1	-8.69	1.23	1.32
44	Lh	502	HIS	ND1-CE1	-8.69	1.23	1.32
14	LD	552	HIS	ND1-CE1	-8.69	1.23	1.32
22	LL	148	HIS	ND1-CE1	-8.69	1.23	1.32
45	Li	534	HIS	ND1-CE1	-8.69	1.23	1.32
53	Lq	129	HIS	ND1-CE1	-8.69	1.23	1.32
25	LO	243	HIS	ND1-CE1	-8.69	1.23	1.32
61	Ly	289	HIS	CE1-NE2	-8.69	1.23	1.32
69	UG	270	HIS	ND1-CE1	-8.69	1.23	1.32
37	La	29	HIS	ND1-CE1	-8.69	1.23	1.32
42	Lf	349	HIS	CE1-NE2	-8.69	1.23	1.32
48	Ll	10	HIS	CE1-NE2	-8.69	1.23	1.32
32	LV	602	HIS	ND1-CE1	-8.69	1.23	1.32
69	UG	288	HIS	CE1-NE2	-8.69	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
26	LP	114	HIS	CE1-NE2	-8.68	1.23	1.32
38	Lb	637	HIS	CE1-NE2	-8.68	1.23	1.32
38	Lb	688	HIS	ND1-CE1	-8.68	1.23	1.32
39	Lc	454	HIS	ND1-CE1	-8.68	1.23	1.32
40	Ld	589	HIS	ND1-CE1	-8.68	1.23	1.32
1	L0	347	HIS	CE1-NE2	-8.68	1.23	1.32
32	LV	593	HIS	ND1-CE1	-8.68	1.23	1.32
51	Lo	91	HIS	ND1-CE1	-8.68	1.23	1.32
62	Lz	173	HIS	CE1-NE2	-8.68	1.23	1.32
5	L4	194	HIS	ND1-CE1	-8.68	1.23	1.32
55	Ls	388	HIS	ND1-CE1	-8.68	1.23	1.32
1	L0	347	HIS	ND1-CE1	-8.68	1.23	1.32
53	Lq	129	HIS	CE1-NE2	-8.68	1.23	1.32
18	LH	202	HIS	CE1-NE2	-8.68	1.23	1.32
55	Ls	340	HIS	ND1-CE1	-8.68	1.23	1.32
56	Lt	114	HIS	ND1-CE1	-8.67	1.23	1.32
25	LO	303	HIS	ND1-CE1	-8.67	1.23	1.32
42	Lf	190	HIS	ND1-CE1	-8.67	1.23	1.32
5	L4	314	HIS	ND1-CE1	-8.67	1.23	1.32
26	LP	152	HIS	ND1-CE1	-8.67	1.23	1.32
28	LR	122	HIS	ND1-CE1	-8.67	1.23	1.32
4	L3	736	HIS	ND1-CE1	-8.67	1.23	1.32
18	LH	202	HIS	ND1-CE1	-8.67	1.23	1.32
39	Lc	215	HIS	ND1-CE1	-8.67	1.23	1.32
42	Lf	323	ALA	CA-CB	-8.67	1.42	1.53
45	Li	697	HIS	ND1-CE1	-8.67	1.23	1.32
33	LW	242	HIS	ND1-CE1	-8.66	1.23	1.32
58	Lv	50	HIS	ND1-CE1	-8.66	1.23	1.32
33	LW	466	HIS	ND1-CE1	-8.66	1.23	1.32
22	LL	148	HIS	CE1-NE2	-8.66	1.23	1.32
44	Lh	512	HIS	CE1-NE2	-8.66	1.23	1.32
53	Lq	650	HIS	ND1-CE1	-8.66	1.23	1.32
53	Lq	697	HIS	ND1-CE1	-8.66	1.23	1.32
45	Li	688	HIS	CE1-NE2	-8.66	1.23	1.32
69	UG	270	HIS	CE1-NE2	-8.66	1.23	1.32
39	Lc	460	HIS	ND1-CE1	-8.66	1.23	1.32
55	Ls	390	HIS	ND1-CE1	-8.66	1.23	1.32
56	Lt	228	HIS	ND1-CE1	-8.66	1.23	1.32
25	LO	8	HIS	ND1-CE1	-8.65	1.23	1.32
11	LA	184	HIS	ND1-CE1	-8.65	1.23	1.32
42	Lf	349	HIS	ND1-CE1	-8.65	1.23	1.32
51	Lo	236	HIS	ND1-CE1	-8.65	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
65	UC	295	HIS	ND1-CE1	-8.65	1.23	1.32
14	LD	394	HIS	CE1-NE2	-8.65	1.24	1.32
22	LL	385	HIS	CE1-NE2	-8.65	1.24	1.32
57	Lu	390	HIS	ND1-CE1	-8.65	1.24	1.32
19	LI	44	HIS	ND1-CE1	-8.64	1.24	1.32
28	LR	122	HIS	CE1-NE2	-8.64	1.24	1.32
45	Li	359	HIS	CE1-NE2	-8.64	1.24	1.32
25	LO	305	HIS	CE1-NE2	-8.64	1.24	1.32
1	L0	377	HIS	ND1-CE1	-8.64	1.24	1.32
1	L0	383	HIS	ND1-CE1	-8.64	1.24	1.32
38	Lb	286	HIS	ND1-CE1	-8.64	1.24	1.32
40	Ld	493	HIS	ND1-CE1	-8.63	1.24	1.32
11	LA	18	HIS	ND1-CE1	-8.63	1.24	1.32
53	Lq	667	HIS	CE1-NE2	-8.63	1.24	1.32
56	Lt	108	HIS	ND1-CE1	-8.63	1.24	1.32
1	L0	626	HIS	CE1-NE2	-8.62	1.24	1.32
48	Ll	104	HIS	CE1-NE2	-8.62	1.24	1.32
60	Lx	349	HIS	ND1-CE1	-8.62	1.24	1.32
53	Lq	481	HIS	ND1-CE1	-8.62	1.24	1.32
43	Lg	188	HIS	ND1-CE1	-8.62	1.24	1.32
67	UE	122	HIS	ND1-CE1	-8.62	1.24	1.32
67	UE	137	HIS	CE1-NE2	-8.62	1.24	1.32
56	Lt	121	HIS	CE1-NE2	-8.61	1.24	1.32
2	L1	427	HIS	CE1-NE2	-8.61	1.24	1.32
35	LY	267	HIS	ND1-CE1	-8.61	1.24	1.32
20	LJ	42	HIS	ND1-CE1	-8.61	1.24	1.32
1	L0	605	HIS	ND1-CE1	-8.60	1.24	1.32
11	LA	102	ALA	CA-CB	-8.60	1.42	1.52
20	LJ	133	HIS	CE1-NE2	-8.60	1.24	1.32
52	Lp	605	HIS	CE1-NE2	-8.60	1.24	1.32
53	Lq	184	HIS	ND1-CE1	-8.60	1.24	1.32
1	L0	388	HIS	ND1-CE1	-8.59	1.24	1.32
52	Lp	504	HIS	ND1-CE1	-8.59	1.24	1.32
44	Lh	339	HIS	ND1-CE1	-8.59	1.24	1.32
33	LW	472	HIS	ND1-CE1	-8.59	1.24	1.32
25	LO	113	HIS	ND1-CE1	-8.59	1.24	1.32
45	Li	478	HIS	ND1-CE1	-8.58	1.24	1.32
22	LL	315	HIS	CE1-NE2	-8.58	1.24	1.32
52	Lp	380	HIS	ND1-CE1	-8.58	1.24	1.32
61	Ly	459	HIS	ND1-CE1	-8.58	1.24	1.32
62	Lz	207	HIS	ND1-CE1	-8.57	1.24	1.32
11	LA	186	HIS	ND1-CE1	-8.57	1.24	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	LL	296	HIS	ND1-CE1	-8.54	1.24	1.32
24	LN	268	HIS	ND1-CE1	-8.52	1.24	1.32
32	LV	920	HIS	ND1-CE1	-8.52	1.24	1.32
39	Lc	534	HIS	CD2-NE2	-8.50	1.28	1.37
25	LO	100	GLY	N-CA	-8.48	1.37	1.45
32	LV	651	HIS	ND1-CE1	-8.46	1.24	1.32
32	LV	921	HIS	ND1-CE1	-8.44	1.24	1.32
9	L8	121	ALA	CA-CB	-8.43	1.42	1.53
32	LV	795	HIS	CE1-NE2	-8.43	1.24	1.32
32	LV	797	HIS	CE1-NE2	-8.42	1.24	1.32
32	LV	795	HIS	ND1-CE1	-8.42	1.24	1.32
56	Lt	121	HIS	ND1-CE1	-8.42	1.24	1.32
32	LV	797	HIS	ND1-CE1	-8.41	1.24	1.32
32	LV	651	HIS	CE1-NE2	-8.40	1.24	1.32
53	Lq	478	ARG	CZ-NH2	-8.40	1.22	1.33
39	Lc	595	HIS	CD2-NE2	-8.39	1.28	1.37
32	LV	921	HIS	CE1-NE2	-8.38	1.24	1.32
38	Lb	414	ALA	CA-CB	-8.38	1.42	1.52
56	Lt	119	ARG	CZ-NH2	-8.37	1.22	1.33
53	Lq	474	ARG	CZ-NH2	-8.37	1.22	1.33
55	Ls	338	ARG	CZ-NH2	-8.36	1.22	1.33
68	UF	64	ARG	CZ-NH2	-8.36	1.22	1.33
34	LX	109	ARG	CZ-NH2	-8.35	1.22	1.33
59	Lw	20	ARG	CZ-NH2	-8.35	1.22	1.33
49	Lm	349	ARG	CZ-NH2	-8.35	1.22	1.33
38	Lb	361	ARG	CZ-NH2	-8.35	1.22	1.33
51	Lo	265	ARG	CZ-NH2	-8.34	1.22	1.33
52	Lp	709	ARG	CZ-NH2	-8.34	1.22	1.33
4	L3	424	ARG	CZ-NH2	-8.34	1.22	1.33
37	La	85	ARG	CZ-NH2	-8.34	1.22	1.33
42	Lf	334	ARG	CZ-NH2	-8.34	1.22	1.33
23	LM	48	ARG	CZ-NH2	-8.33	1.22	1.33
52	Lp	627	ARG	CZ-NH2	-8.33	1.22	1.33
35	LY	249	ARG	CZ-NH2	-8.33	1.22	1.33
61	Ly	587	ARG	CZ-NH2	-8.33	1.22	1.33
1	L0	343	ARG	CZ-NH2	-8.32	1.22	1.33
36	LZ	101	ARG	CZ-NH2	-8.32	1.22	1.33
37	La	30	ARG	CZ-NH2	-8.32	1.22	1.33
4	L3	505	ARG	CZ-NH2	-8.32	1.22	1.33
29	LS	73	ARG	CZ-NH2	-8.32	1.22	1.33
3	L2	71	ARG	CZ-NH2	-8.31	1.22	1.33
3	L2	45	ARG	CZ-NH2	-8.31	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	LJ	260	ARG	CZ-NH2	-8.31	1.22	1.33
46	Lj	97	ARG	CZ-NH2	-8.31	1.22	1.33
55	Ls	359	ARG	CZ-NH2	-8.31	1.22	1.33
30	LT	10	ARG	CZ-NH2	-8.31	1.22	1.33
35	LY	355	ARG	CZ-NH2	-8.31	1.22	1.33
44	Lh	358	ARG	CZ-NH2	-8.31	1.22	1.33
60	Lx	370	ARG	CZ-NH2	-8.31	1.22	1.33
51	Lo	264	ARG	CZ-NH2	-8.31	1.22	1.33
20	LJ	245	ARG	CZ-NH2	-8.31	1.22	1.33
59	Lw	163	ARG	CZ-NH2	-8.31	1.22	1.33
2	L1	505	ARG	CZ-NH2	-8.30	1.22	1.33
14	LD	529	ARG	CZ-NH2	-8.30	1.22	1.33
35	LY	265	ARG	CZ-NH2	-8.30	1.22	1.33
1	L0	349	ARG	CZ-NH2	-8.30	1.22	1.33
21	LK	143	ARG	CZ-NH2	-8.30	1.22	1.33
24	LN	279	ARG	CZ-NH2	-8.30	1.22	1.33
26	LP	115	ARG	CZ-NH2	-8.30	1.22	1.33
26	LP	257	ARG	CZ-NH2	-8.30	1.22	1.33
38	Lb	852	ARG	CZ-NH2	-8.30	1.22	1.33
12	LB	13	ARG	CZ-NH2	-8.30	1.22	1.33
23	LM	63	ARG	CZ-NH2	-8.30	1.22	1.33
25	LO	9	ARG	CZ-NH2	-8.30	1.22	1.33
34	LX	162	ARG	CZ-NH2	-8.30	1.22	1.33
44	Lh	657	ARG	CZ-NH2	-8.30	1.22	1.33
61	Ly	680	ARG	CZ-NH2	-8.30	1.22	1.33
1	L0	434	ARG	CZ-NH2	-8.30	1.22	1.33
3	L2	188	ARG	CZ-NH2	-8.30	1.22	1.33
13	LC	133	ARG	CZ-NH2	-8.29	1.22	1.33
27	LQ	359	ARG	CZ-NH2	-8.29	1.22	1.33
29	LS	9	ARG	CZ-NH2	-8.29	1.22	1.33
36	LZ	194	ARG	CZ-NH2	-8.29	1.22	1.33
39	Lc	207	ARG	CZ-NH2	-8.29	1.22	1.33
43	Lg	115	ARG	CZ-NH2	-8.29	1.22	1.33
51	Lo	82	ARG	CZ-NH2	-8.29	1.22	1.33
53	Lq	107	ARG	CZ-NH2	-8.30	1.22	1.33
55	Ls	375	ARG	CZ-NH2	-8.29	1.22	1.33
7	L6	242	ARG	CZ-NH2	-8.29	1.22	1.33
35	LY	271	ARG	CZ-NH2	-8.29	1.22	1.33
39	Lc	612	ARG	CZ-NH2	-8.29	1.22	1.33
48	Ll	68	ARG	CZ-NH2	-8.29	1.22	1.33
8	L7	71	ARG	CZ-NH2	-8.29	1.22	1.33
25	LO	256	ARG	CZ-NH2	-8.29	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	La	77	ARG	CZ-NH2	-8.29	1.22	1.33
62	Lz	236	ARG	CZ-NH2	-8.29	1.22	1.33
67	UE	185	ARG	CZ-NH2	-8.29	1.22	1.33
5	L4	590	ARG	CZ-NH2	-8.29	1.22	1.33
30	LT	46	ARG	CZ-NH2	-8.29	1.22	1.33
32	LV	920	HIS	CE1-NE2	-8.29	1.24	1.32
42	Lf	342	ARG	CZ-NH2	-8.29	1.22	1.33
1	L0	385	ARG	CZ-NH2	-8.29	1.22	1.33
24	LN	328	ARG	CZ-NH2	-8.29	1.22	1.33
38	Lb	384	ARG	CZ-NH2	-8.29	1.22	1.33
39	Lc	615	ARG	CZ-NH2	-8.29	1.22	1.33
12	LB	27	ARG	CZ-NH2	-8.29	1.22	1.33
15	LE	371	ARG	CZ-NH2	-8.29	1.22	1.33
40	Ld	317	ARG	CZ-NH2	-8.29	1.22	1.33
41	Le	518	ARG	CZ-NH2	-8.29	1.22	1.33
61	Ly	458	ARG	CZ-NH2	-8.29	1.22	1.33
55	Ls	345	ARG	CZ-NH2	-8.28	1.22	1.33
17	LG	214	ARG	CZ-NH2	-8.28	1.22	1.33
41	Le	624	ARG	CZ-NH2	-8.28	1.22	1.33
48	Ll	4	ARG	CZ-NH2	-8.28	1.22	1.33
53	Lq	120	ARG	CZ-NH2	-8.28	1.22	1.33
38	Lb	305	ARG	CZ-NH2	-8.28	1.22	1.33
51	Lo	224	ARG	CZ-NH2	-8.28	1.22	1.33
24	LN	259	ARG	CZ-NH2	-8.28	1.22	1.33
32	LV	479	ARG	CZ-NH2	-8.28	1.22	1.33
40	Ld	353	ARG	CZ-NH2	-8.28	1.22	1.33
63	UA	239	ARG	CZ-NH2	-8.28	1.22	1.33
36	LZ	50	ARG	CZ-NH2	-8.28	1.22	1.33
41	Le	489	ARG	CZ-NH2	-8.28	1.22	1.33
52	Lp	720	ARG	CZ-NH2	-8.28	1.22	1.33
54	Lr	17	ARG	CZ-NH2	-8.28	1.22	1.33
6	L5	469	ARG	CZ-NH2	-8.28	1.22	1.33
25	LO	144	ARG	CZ-NH2	-8.28	1.22	1.33
36	LZ	27	ARG	CZ-NH2	-8.28	1.22	1.33
51	Lo	302	ARG	CZ-NH2	-8.28	1.22	1.33
54	Lr	182	ARG	CZ-NH2	-8.28	1.22	1.33
3	L2	41	ARG	CZ-NH2	-8.27	1.22	1.33
3	L2	81	ARG	CZ-NH2	-8.27	1.22	1.33
24	LN	256	ARG	CZ-NH2	-8.27	1.22	1.33
38	Lb	404	ARG	CZ-NH2	-8.27	1.22	1.33
44	Lh	478	ARG	CZ-NH2	-8.27	1.22	1.33
54	Lr	180	ARG	CZ-NH2	-8.27	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	L7	111	ARG	CZ-NH2	-8.27	1.22	1.33
12	LB	20	ARG	CZ-NH2	-8.27	1.22	1.33
22	LL	535	ARG	CZ-NH2	-8.27	1.22	1.33
36	LZ	196	ARG	CZ-NH2	-8.27	1.22	1.33
41	Le	502	ARG	CZ-NH2	-8.27	1.22	1.33
45	Li	125	ARG	CZ-NH2	-8.27	1.22	1.33
54	Lr	143	ARG	CZ-NH2	-8.27	1.22	1.33
69	UG	262	ARG	CZ-NH2	-8.27	1.22	1.33
5	L4	269	ARG	CZ-NH2	-8.27	1.22	1.33
10	L9	456	ARG	CZ-NH2	-8.27	1.22	1.33
34	LX	176	ARG	CZ-NH2	-8.27	1.22	1.33
38	Lb	863	ARG	CZ-NH2	-8.27	1.22	1.33
45	Li	601	ARG	CZ-NH2	-8.27	1.22	1.33
45	Li	631	ARG	CZ-NH2	-8.27	1.22	1.33
51	Lo	184	ARG	CZ-NH2	-8.27	1.22	1.33
52	Lp	636	ARG	CZ-NH2	-8.27	1.22	1.33
66	UD	181	ARG	CZ-NH2	-8.27	1.22	1.33
26	LP	165	ARG	CZ-NH2	-8.27	1.22	1.33
43	Lg	97	ARG	CZ-NH2	-8.27	1.22	1.33
43	Lg	123	ARG	CZ-NH2	-8.27	1.22	1.33
55	Ls	344	ARG	CZ-NH2	-8.27	1.22	1.33
64	UB	346	ARG	CZ-NH2	-8.27	1.22	1.33
8	L7	76	ARG	CZ-NH2	-8.26	1.22	1.33
13	LC	319	ARG	CZ-NH2	-8.26	1.22	1.33
33	LW	217	ARG	CZ-NH2	-8.26	1.22	1.33
35	LY	427	ARG	CZ-NH2	-8.26	1.22	1.33
39	Lc	222	ARG	CZ-NH2	-8.26	1.22	1.33
40	Ld	518	ARG	CZ-NH2	-8.26	1.22	1.33
41	Le	510	ARG	CZ-NH2	-8.26	1.22	1.33
44	Lh	523	ARG	CZ-NH2	-8.26	1.22	1.33
45	Li	603	ARG	CZ-NH2	-8.26	1.22	1.33
61	Ly	581	ARG	CZ-NH2	-8.26	1.22	1.33
27	LQ	357	ARG	CZ-NH2	-8.26	1.22	1.33
27	LQ	398	ARG	CZ-NH2	-8.26	1.22	1.33
32	LV	486	ARG	CZ-NH2	-8.26	1.22	1.33
46	Lj	26	ARG	CZ-NH2	-8.26	1.22	1.33
46	Lj	51	ARG	CZ-NH2	-8.26	1.22	1.33
46	Lj	74	ARG	CZ-NH2	-8.26	1.22	1.33
55	Ls	350	ARG	CZ-NH2	-8.26	1.22	1.33
25	LO	142	ARG	CZ-NH2	-8.26	1.22	1.33
28	LR	50	ARG	CZ-NH2	-8.26	1.22	1.33
32	LV	1063	ARG	CZ-NH2	-8.26	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	LZ	110	ARG	CZ-NH2	-8.26	1.22	1.33
39	Lc	204	ARG	CZ-NH2	-8.26	1.22	1.33
39	Lc	452	ARG	CZ-NH2	-8.26	1.22	1.33
46	Lj	58	ARG	CZ-NH2	-8.26	1.22	1.33
46	Lj	113	ARG	CZ-NH2	-8.26	1.22	1.33
51	Lo	347	ARG	CZ-NH2	-8.26	1.22	1.33
52	Lp	689	ARG	CZ-NH2	-8.26	1.22	1.33
56	Lt	244	ARG	CZ-NH2	-8.26	1.22	1.33
24	LN	289	ARG	CZ-NH2	-8.26	1.22	1.33
25	LO	101	ARG	CZ-NH2	-8.26	1.22	1.33
26	LP	280	ARG	CZ-NH2	-8.26	1.22	1.33
35	LY	464	ARG	CZ-NH2	-8.26	1.22	1.33
13	LC	121	ARG	CZ-NH2	-8.26	1.22	1.33
17	LG	237	ARG	CZ-NH2	-8.26	1.22	1.33
20	LJ	395	ARG	CZ-NH2	-8.26	1.22	1.33
38	Lb	746	ARG	CZ-NH2	-8.26	1.22	1.33
38	Lb	312	ARG	CZ-NH2	-8.26	1.22	1.33
41	Le	427	ARG	CZ-NH2	-8.26	1.22	1.33
51	Lo	151	ARG	CZ-NH2	-8.26	1.22	1.33
51	Lo	214	ARG	CZ-NH2	-8.26	1.22	1.33
55	Ls	362	ARG	CZ-NH2	-8.26	1.22	1.33
53	Lq	523	ARG	CZ-NH2	-8.26	1.22	1.33
56	Lt	131	ARG	CZ-NH2	-8.26	1.22	1.33
60	Lx	358	ARG	CZ-NH2	-8.26	1.22	1.33
61	Ly	584	ARG	CZ-NH2	-8.26	1.22	1.33
70	UH	273	ARG	CZ-NH2	-8.26	1.22	1.33
1	L0	363	ARG	CZ-NH2	-8.25	1.22	1.33
6	L5	450	ARG	CZ-NH2	-8.25	1.22	1.33
7	L6	237	ARG	CZ-NH2	-8.25	1.22	1.33
11	LA	131	ARG	CZ-NH2	-8.25	1.22	1.33
14	LD	364	ARG	CZ-NH2	-8.25	1.22	1.33
8	L7	13	ARG	CZ-NH2	-8.25	1.22	1.33
11	LA	174	ARG	CZ-NH2	-8.25	1.22	1.33
16	LF	156	ARG	CZ-NH2	-8.25	1.22	1.33
25	LO	125	ARG	CZ-NH2	-8.25	1.22	1.33
31	LU	263	ARG	CZ-NH2	-8.25	1.22	1.33
33	LW	219	ARG	CZ-NH2	-8.25	1.22	1.33
38	Lb	864	ARG	CZ-NH2	-8.25	1.22	1.33
41	Le	573	ARG	CZ-NH2	-8.25	1.22	1.33
56	Lt	218	ARG	CZ-NH2	-8.25	1.22	1.33
61	Ly	652	ARG	CZ-NH2	-8.25	1.22	1.33
1	L0	568	ARG	CZ-NH2	-8.25	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	Le	629	ARG	CZ-NH2	-8.25	1.22	1.33
4	L3	734	ARG	CZ-NH2	-8.25	1.22	1.33
6	L5	468	ARG	CZ-NH2	-8.25	1.22	1.33
59	Lw	13	ARG	CZ-NH2	-8.25	1.22	1.33
11	LA	167	ARG	CZ-NH2	-8.25	1.22	1.33
20	LJ	291	ARG	CZ-NH2	-8.25	1.22	1.33
22	LL	298	ARG	CZ-NH2	-8.25	1.22	1.33
49	Lm	412	ARG	CZ-NH2	-8.25	1.22	1.33
57	Lu	256	ARG	CZ-NH2	-8.25	1.22	1.33
14	LD	543	ARG	CZ-NH2	-8.25	1.22	1.33
20	LJ	280	ARG	CZ-NH2	-8.25	1.22	1.33
22	LL	531	ARG	CZ-NH2	-8.25	1.22	1.33
55	Ls	395	ARG	CZ-NH2	-8.25	1.22	1.33
21	LK	234	ARG	CZ-NH2	-8.25	1.22	1.33
23	LM	134	ARG	CZ-NH2	-8.25	1.22	1.33
26	LP	104	ARG	CZ-NH2	-8.25	1.22	1.33
38	Lb	727	ARG	CZ-NH2	-8.25	1.22	1.33
44	Lh	715	ARG	CZ-NH2	-8.25	1.22	1.33
45	Li	557	ARG	CZ-NH2	-8.25	1.22	1.33
48	Ll	42	ARG	CZ-NH2	-8.25	1.22	1.33
62	Lz	147	ARG	CZ-NH2	-8.25	1.22	1.33
5	L4	593	ARG	CZ-NH2	-8.24	1.22	1.33
11	LA	38	ARG	CZ-NH2	-8.24	1.22	1.33
13	LC	169	ARG	CZ-NH2	-8.24	1.22	1.33
21	LK	68	ARG	CZ-NH2	-8.24	1.22	1.33
28	LR	71	ARG	CZ-NH2	-8.24	1.22	1.33
37	La	38	ARG	CZ-NH2	-8.24	1.22	1.33
37	La	39	ARG	CZ-NH2	-8.24	1.22	1.33
43	Lg	175	ARG	CZ-NH2	-8.24	1.22	1.33
52	Lp	454	ARG	CZ-NH2	-8.24	1.22	1.33
52	Lp	517	ARG	CZ-NH2	-8.24	1.22	1.33
20	LJ	31	ARG	CZ-NH2	-8.24	1.22	1.33
38	Lb	905	ARG	CZ-NH2	-8.24	1.22	1.33
41	Le	550	ARG	CZ-NH2	-8.24	1.22	1.33
49	Lm	291	ARG	CZ-NH2	-8.24	1.22	1.33
55	Ls	402	ARG	CZ-NH2	-8.24	1.22	1.33
61	Ly	285	ARG	CZ-NH2	-8.24	1.22	1.33
61	Ly	586	ARG	CZ-NH2	-8.24	1.22	1.33
61	Ly	596	ARG	CZ-NH2	-8.24	1.22	1.33
64	UB	295	ARG	CZ-NH2	-8.24	1.22	1.33
44	Lh	332	ARG	CZ-NH2	-8.24	1.22	1.33
3	L2	72	ARG	CZ-NH2	-8.24	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	L5	475	ARG	CZ-NH2	-8.24	1.22	1.33
9	L8	145	ARG	CZ-NH2	-8.24	1.22	1.33
39	Lc	142	ARG	CZ-NH2	-8.24	1.22	1.33
49	Lm	265	ARG	CZ-NH2	-8.24	1.22	1.33
59	Lw	156	ARG	CZ-NH2	-8.24	1.22	1.33
39	Lc	310	ARG	CZ-NH2	-8.24	1.22	1.33
53	Lq	688	ARG	CZ-NH2	-8.24	1.22	1.33
61	Ly	589	ARG	CZ-NH2	-8.24	1.22	1.33
64	UB	267	ARG	CZ-NH2	-8.24	1.22	1.33
22	LL	342	ARG	CZ-NH2	-8.24	1.22	1.33
30	LT	120	ARG	CZ-NH2	-8.24	1.22	1.33
32	LV	1062	ARG	CZ-NH2	-8.24	1.22	1.33
53	Lq	652	ARG	CZ-NH2	-8.24	1.22	1.33
8	L7	51	ARG	CZ-NH2	-8.24	1.22	1.33
24	LN	341	ARG	CZ-NH2	-8.24	1.22	1.33
30	LT	12	ARG	CZ-NH2	-8.24	1.22	1.33
37	La	78	ARG	CZ-NH2	-8.24	1.22	1.33
40	Ld	432	ARG	CZ-NH2	-8.24	1.22	1.33
44	Lh	637	ARG	CZ-NH2	-8.24	1.22	1.33
47	Lk	474	ARG	CZ-NH2	-8.24	1.22	1.33
54	Lr	20	ARG	CZ-NH2	-8.24	1.22	1.33
67	UE	125	ARG	CZ-NH2	-8.24	1.22	1.33
9	L8	21	ARG	CZ-NH2	-8.23	1.22	1.33
40	Ld	594	ARG	CZ-NH2	-8.23	1.22	1.33
57	Lu	269	ARG	CZ-NH2	-8.23	1.22	1.33
13	LC	291	ARG	CZ-NH2	-8.23	1.22	1.33
22	LL	549	ARG	CZ-NH2	-8.23	1.22	1.33
30	LT	15	ARG	CZ-NH2	-8.23	1.22	1.33
32	LV	407	ARG	CZ-NH2	-8.23	1.22	1.33
35	LY	260	ARG	CZ-NH2	-8.23	1.22	1.33
48	Ll	135	ARG	CZ-NH2	-8.23	1.22	1.33
48	Ll	136	ARG	CZ-NH2	-8.23	1.22	1.33
52	Lp	623	ARG	CZ-NH2	-8.23	1.22	1.33
56	Lt	97	ARG	CZ-NH2	-8.23	1.22	1.33
64	UB	316	ARG	CZ-NH2	-8.23	1.22	1.33
68	UF	33	ARG	CZ-NH2	-8.23	1.22	1.33
69	UG	263	ARG	CZ-NH2	-8.23	1.22	1.33
35	LY	333	ARG	CZ-NH2	-8.23	1.22	1.33
37	La	92	ARG	CZ-NH2	-8.23	1.22	1.33
38	Lb	899	ARG	CZ-NH2	-8.23	1.22	1.33
58	Lv	74	ARG	CZ-NH2	-8.23	1.22	1.33
1	L0	586	ARG	CZ-NH2	-8.23	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	L7	70	ARG	CZ-NH2	-8.23	1.22	1.33
15	LE	383	ARG	CZ-NH2	-8.23	1.22	1.33
33	LW	325	ARG	CZ-NH2	-8.23	1.22	1.33
38	Lb	721	ARG	CZ-NH2	-8.23	1.22	1.33
40	Ld	310	ARG	CZ-NH2	-8.23	1.22	1.33
45	Li	363	ARG	CZ-NH2	-8.23	1.22	1.33
46	Lj	114	ARG	CZ-NH2	-8.23	1.22	1.33
47	Lk	540	ARG	CZ-NH2	-8.23	1.22	1.33
52	Lp	604	ARG	CZ-NH2	-8.23	1.22	1.33
52	Lp	621	ARG	CZ-NH2	-8.23	1.22	1.33
60	Lx	313	ARG	CZ-NH2	-8.23	1.22	1.33
71	UI	391	ARG	CZ-NH2	-8.23	1.22	1.33
5	L4	516	ARG	CZ-NH2	-8.23	1.22	1.33
9	L8	89	ARG	CZ-NH2	-8.23	1.22	1.33
10	L9	17	ARG	CZ-NH2	-8.23	1.22	1.33
15	LE	376	ARG	CZ-NH2	-8.23	1.22	1.33
25	LO	121	ARG	CZ-NH2	-8.23	1.22	1.33
29	LS	17	ARG	CZ-NH2	-8.23	1.22	1.33
33	LW	379	ARG	CZ-NH2	-8.23	1.22	1.33
38	Lb	284	ARG	CZ-NH2	-8.23	1.22	1.33
39	Lc	148	ARG	CZ-NH2	-8.23	1.22	1.33
39	Lc	317	ARG	CZ-NH2	-8.23	1.22	1.33
41	Le	604	ARG	CZ-NH2	-8.23	1.22	1.33
51	Lo	291	ARG	CZ-NH2	-8.23	1.22	1.33
61	Ly	464	ARG	CZ-NH2	-8.23	1.22	1.33
1	L0	328	ARG	CZ-NH2	-8.23	1.22	1.33
1	L0	390	ARG	CZ-NH2	-8.23	1.22	1.33
3	L2	192	ARG	CZ-NH2	-8.23	1.22	1.33
20	LJ	312	ARG	CZ-NH2	-8.23	1.22	1.33
21	LK	117	ARG	CZ-NH2	-8.23	1.22	1.33
25	LO	109	ARG	CZ-NH2	-8.23	1.22	1.33
25	LO	116	ARG	CZ-NH2	-8.23	1.22	1.33
27	LQ	403	ARG	CZ-NH2	-8.23	1.22	1.33
39	Lc	247	ARG	CZ-NH2	-8.23	1.22	1.33
39	Lc	311	ARG	CZ-NH2	-8.23	1.22	1.33
44	Lh	569	ARG	CZ-NH2	-8.23	1.22	1.33
45	Li	523	ARG	CZ-NH2	-8.23	1.22	1.33
49	Lm	372	ARG	CZ-NH2	-8.23	1.22	1.33
52	Lp	583	ARG	CZ-NH2	-8.23	1.22	1.33
52	Lp	706	ARG	CZ-NH2	-8.23	1.22	1.33
61	Ly	383	ARG	CZ-NH2	-8.23	1.22	1.33
5	L4	355	ARG	CZ-NH2	-8.22	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	L7	47	ARG	CZ-NH2	-8.22	1.22	1.33
10	L9	453	ARG	CZ-NH2	-8.22	1.22	1.33
14	LD	351	ARG	CZ-NH2	-8.22	1.22	1.33
20	LJ	418	ARG	CZ-NH2	-8.22	1.22	1.33
18	LH	232	ARG	CZ-NH2	-8.22	1.22	1.33
21	LK	142	ARG	CZ-NH2	-8.22	1.22	1.33
23	LM	6	ARG	CZ-NH2	-8.22	1.22	1.33
25	LO	99	ARG	CZ-NH2	-8.22	1.22	1.33
33	LW	462	ARG	CZ-NH2	-8.22	1.22	1.33
55	Ls	385	ARG	CZ-NH2	-8.22	1.22	1.33
69	UG	356	ARG	CZ-NH2	-8.22	1.22	1.33
38	Lb	584	ARG	CZ-NH2	-8.22	1.22	1.33
41	Le	628	ARG	CZ-NH2	-8.22	1.22	1.33
63	UA	251	ARG	CZ-NH2	-8.22	1.22	1.33
45	Li	665	ARG	CZ-NH2	-8.22	1.22	1.33
51	Lo	315	ARG	CZ-NH2	-8.22	1.22	1.33
54	Lr	13	ARG	CZ-NH2	-8.22	1.22	1.33
1	L0	258	ARG	CZ-NH2	-8.22	1.22	1.33
24	LN	319	ARG	CZ-NH2	-8.22	1.22	1.33
52	Lp	650	ARG	CZ-NH2	-8.22	1.22	1.33
11	LA	76	ARG	CZ-NH2	-8.22	1.22	1.33
18	LH	236	ARG	CZ-NH2	-8.22	1.22	1.33
20	LJ	113	ARG	CZ-NH2	-8.22	1.22	1.33
20	LJ	213	ARG	CZ-NH2	-8.22	1.22	1.33
25	LO	133	ARG	CZ-NH2	-8.22	1.22	1.33
35	LY	506	ARG	CZ-NH2	-8.22	1.22	1.33
36	LZ	22	ARG	CZ-NH2	-8.22	1.22	1.33
42	Lf	326	ARG	CZ-NH2	-8.22	1.22	1.33
50	Ln	149	ARG	CZ-NH2	-8.22	1.22	1.33
53	Lq	229	ARG	CZ-NH2	-8.22	1.22	1.33
60	Lx	368	ARG	CZ-NH2	-8.22	1.22	1.33
4	L3	660	ARG	CZ-NH2	-8.22	1.22	1.33
5	L4	223	ARG	CZ-NH2	-8.22	1.22	1.33
14	LD	515	ALA	CA-CB	-8.22	1.42	1.53
20	LJ	275	ARG	CZ-NH2	-8.22	1.22	1.33
21	LK	264	ARG	CZ-NH2	-8.22	1.22	1.33
33	LW	286	ARG	CZ-NH2	-8.22	1.22	1.33
41	Le	515	ARG	CZ-NH2	-8.22	1.22	1.33
43	Lg	82	ARG	CZ-NH2	-8.22	1.22	1.33
52	Lp	499	ARG	CZ-NH2	-8.22	1.22	1.33
17	LG	206	ARG	CZ-NH2	-8.22	1.22	1.33
25	LO	343	ARG	CZ-NH2	-8.22	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
30	LT	81	ARG	CZ-NH2	-8.22	1.22	1.33
36	LZ	121	ARG	CZ-NH2	-8.22	1.22	1.33
44	Lh	740	ARG	CZ-NH2	-8.22	1.22	1.33
49	Lm	427	ARG	CZ-NH2	-8.22	1.22	1.33
57	Lu	279	ARG	CZ-NH2	-8.22	1.22	1.33
68	UF	32	ARG	CZ-NH2	-8.22	1.22	1.33
38	Lb	355	ARG	CZ-NH2	-8.22	1.22	1.33
5	L4	586	ARG	CZ-NH2	-8.21	1.22	1.33
8	L7	69	ARG	CZ-NH2	-8.21	1.22	1.33
13	LC	554	ARG	CZ-NH2	-8.21	1.22	1.33
37	La	37	ARG	CZ-NH2	-8.22	1.22	1.33
40	Ld	490	ARG	CZ-NH2	-8.22	1.22	1.33
43	Lg	230	ARG	CZ-NH2	-8.22	1.22	1.33
69	UG	371	ARG	CZ-NH2	-8.22	1.22	1.33
13	LC	575	ARG	CZ-NH2	-8.21	1.22	1.33
24	LN	274	ARG	CZ-NH2	-8.21	1.22	1.33
38	Lb	314	ARG	CZ-NH2	-8.21	1.22	1.33
38	Lb	394	ARG	CZ-NH2	-8.21	1.22	1.33
38	Lb	638	ARG	CZ-NH2	-8.21	1.22	1.33
51	Lo	114	ARG	CZ-NH2	-8.21	1.22	1.33
51	Lo	120	ARG	CZ-NH2	-8.21	1.22	1.33
51	Lo	182	ARG	CZ-NH2	-8.21	1.22	1.33
55	Ls	517	ARG	CZ-NH2	-8.22	1.22	1.33
69	UG	313	ARG	CZ-NH2	-8.21	1.22	1.33
1	L0	396	ARG	CZ-NH2	-8.21	1.22	1.33
19	LI	20	ARG	CZ-NH2	-8.21	1.22	1.33
39	Lc	333	ARG	CZ-NH2	-8.21	1.22	1.33
52	Lp	557	ARG	CZ-NH2	-8.21	1.22	1.33
1	L0	618	ARG	CZ-NH2	-8.21	1.22	1.33
12	LB	18	ARG	CZ-NH2	-8.21	1.22	1.33
12	LB	29	ARG	CZ-NH2	-8.21	1.22	1.33
17	LG	236	ARG	CZ-NH2	-8.21	1.22	1.33
20	LJ	9	ARG	CZ-NH2	-8.21	1.22	1.33
24	LN	344	ARG	CZ-NH2	-8.21	1.22	1.33
27	LQ	415	ARG	CZ-NH2	-8.21	1.22	1.33
29	LS	16	ARG	CZ-NH2	-8.21	1.22	1.33
52	Lp	538	ARG	CZ-NH2	-8.21	1.22	1.33
31	LU	239	ARG	CZ-NH2	-8.21	1.22	1.33
36	LZ	5	ARG	CZ-NH2	-8.21	1.22	1.33
36	LZ	70	ARG	CZ-NH2	-8.21	1.22	1.33
53	Lq	125	ARG	CZ-NH2	-8.21	1.22	1.33
53	Lq	271	ARG	CZ-NH2	-8.21	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
54	Lr	61	ARG	CZ-NH2	-8.21	1.22	1.33
56	Lt	220	ALA	CA-CB	-8.21	1.41	1.52
56	Lt	265	ARG	CZ-NH2	-8.21	1.22	1.33
66	UD	169	ARG	CZ-NH2	-8.21	1.22	1.33
11	LA	87	ARG	CZ-NH2	-8.21	1.22	1.33
13	LC	607	ARG	CZ-NH2	-8.21	1.22	1.33
23	LM	8	ARG	CZ-NH2	-8.21	1.22	1.33
23	LM	109	ARG	CZ-NH2	-8.21	1.22	1.33
28	LR	22	ARG	CZ-NH2	-8.21	1.22	1.33
38	Lb	358	ARG	CZ-NH2	-8.21	1.22	1.33
35	LY	443	ARG	CZ-NH2	-8.21	1.22	1.33
35	LY	466	ARG	CZ-NH2	-8.21	1.22	1.33
38	Lb	723	ARG	CZ-NH2	-8.21	1.22	1.33
38	Lb	842	ARG	CZ-NH2	-8.21	1.22	1.33
35	LY	531	ARG	CZ-NH2	-8.21	1.22	1.33
38	Lb	390	ARG	CZ-NH2	-8.21	1.22	1.33
40	Ld	333	ARG	CZ-NH2	-8.21	1.22	1.33
42	Lf	314	ARG	CZ-NH2	-8.21	1.22	1.33
45	Li	565	ARG	CZ-NH2	-8.21	1.22	1.33
46	Lj	14	ARG	CZ-NH2	-8.21	1.22	1.33
46	Lj	30	ARG	CZ-NH2	-8.21	1.22	1.33
47	Lk	546	ARG	CZ-NH2	-8.21	1.22	1.33
52	Lp	698	ARG	CZ-NH2	-8.21	1.22	1.33
54	Lr	265	ARG	CZ-NH2	-8.21	1.22	1.33
53	Lq	700	ARG	CZ-NH2	-8.21	1.22	1.33
59	Lw	166	ARG	CZ-NH2	-8.21	1.22	1.33
64	UB	326	ARG	CZ-NH2	-8.21	1.22	1.33
68	UF	16	ARG	CZ-NH2	-8.21	1.22	1.33
5	L4	277	ARG	CZ-NH2	-8.21	1.22	1.33
20	LJ	292	ARG	CZ-NH2	-8.21	1.22	1.33
28	LR	14	ARG	CZ-NH2	-8.21	1.22	1.33
16	LF	129	ARG	CZ-NH2	-8.20	1.22	1.33
29	LS	144	ARG	CZ-NH2	-8.20	1.22	1.33
30	LT	33	ARG	CZ-NH2	-8.20	1.22	1.33
37	La	149	ARG	CZ-NH2	-8.21	1.22	1.33
52	Lp	648	ARG	CZ-NH2	-8.21	1.22	1.33
53	Lq	647	ARG	CZ-NH2	-8.20	1.22	1.33
5	L4	203	ARG	CZ-NH2	-8.20	1.22	1.33
41	Le	554	ARG	CZ-NH2	-8.20	1.22	1.33
55	Ls	334	ARG	CZ-NH2	-8.20	1.22	1.33
55	Ls	373	ARG	CZ-NH2	-8.20	1.22	1.33
9	L8	161	ARG	CZ-NH2	-8.20	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
12	LB	61	ARG	CZ-NH2	-8.20	1.22	1.33
16	LF	188	ARG	CZ-NH2	-8.20	1.22	1.33
48	Ll	113	ARG	CZ-NH2	-8.20	1.22	1.33
67	UE	127	ARG	CZ-NH2	-8.20	1.22	1.33
1	L0	427	ARG	CZ-NH2	-8.20	1.22	1.33
9	L8	118	ARG	CZ-NH2	-8.20	1.22	1.33
13	LC	476	ARG	CZ-NH2	-8.20	1.22	1.33
14	LD	492	ARG	CZ-NH2	-8.20	1.22	1.33
17	LG	235	ARG	CZ-NH2	-8.20	1.22	1.33
38	Lb	652	ARG	CZ-NH2	-8.20	1.22	1.33
55	Ls	367	ARG	CZ-NH2	-8.20	1.22	1.33
61	Ly	290	ARG	CZ-NH2	-8.20	1.22	1.33
69	UG	375	ARG	CZ-NH2	-8.20	1.22	1.33
34	LX	111	ARG	CZ-NH2	-8.20	1.22	1.33
38	Lb	720	ARG	CZ-NH2	-8.20	1.22	1.33
48	Ll	29	ARG	CZ-NH2	-8.20	1.22	1.33
55	Ls	413	ARG	CZ-NH2	-8.20	1.22	1.33
56	Lt	223	ARG	CZ-NH2	-8.20	1.22	1.33
67	UE	144	ARG	CZ-NH2	-8.20	1.22	1.33
6	L5	458	ARG	CZ-NH2	-8.20	1.22	1.33
9	L8	20	ARG	CZ-NH2	-8.20	1.22	1.33
38	Lb	288	ARG	CZ-NH2	-8.20	1.22	1.33
56	Lt	245	ARG	CZ-NH2	-8.20	1.22	1.33
13	LC	178	ARG	CZ-NH2	-8.19	1.22	1.33
22	LL	909	ARG	CZ-NH2	-8.20	1.22	1.33
45	Li	314	ARG	CZ-NH2	-8.20	1.22	1.33
52	Lp	414	ARG	CZ-NH2	-8.20	1.22	1.33
55	Ls	588	ARG	CZ-NH2	-8.20	1.22	1.33
56	Lt	106	ARG	CZ-NH2	-8.20	1.22	1.33
69	UG	398	ARG	CZ-NH2	-8.20	1.22	1.33
25	LO	87	ARG	CZ-NH2	-8.19	1.22	1.33
38	Lb	357	ARG	CZ-NH2	-8.19	1.22	1.33
43	Lg	203	ARG	CZ-NH2	-8.19	1.22	1.33
51	Lo	333	ARG	CZ-NH2	-8.19	1.22	1.33
54	Lr	255	ARG	CZ-NH2	-8.19	1.22	1.33
40	Ld	612	ARG	CZ-NH2	-8.19	1.22	1.33
55	Ls	330	HIS	CD2-NE2	-8.19	1.28	1.37
56	Lt	71	ARG	CZ-NH2	-8.19	1.22	1.33
64	UB	366	ARG	CZ-NH2	-8.19	1.22	1.33
61	Ly	384	ARG	CZ-NH2	-8.19	1.22	1.33
9	L8	157	ARG	CZ-NH2	-8.19	1.22	1.33
20	LJ	170	ARG	CZ-NH2	-8.19	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	LJ	330	ARG	CZ-NH2	-8.19	1.22	1.33
27	LQ	351	ARG	CZ-NH2	-8.19	1.22	1.33
28	LR	31	ARG	CZ-NH2	-8.19	1.22	1.33
40	Ld	494	ARG	CZ-NH2	-8.19	1.22	1.33
44	Lh	408	ARG	CZ-NH2	-8.19	1.22	1.33
43	Lg	234	ARG	CZ-NH2	-8.19	1.22	1.33
45	Li	591	ARG	CZ-NH2	-8.19	1.22	1.33
64	UB	339	ARG	CZ-NH2	-8.19	1.22	1.33
65	UC	293	ARG	CZ-NH2	-8.19	1.22	1.33
1	L0	589	ARG	CZ-NH2	-8.19	1.22	1.33
3	L2	128	ARG	CZ-NH2	-8.19	1.22	1.33
25	LO	136	ARG	CZ-NH2	-8.19	1.22	1.33
26	LP	281	ARG	CZ-NH2	-8.19	1.22	1.33
27	LQ	364	ARG	CZ-NH2	-8.19	1.22	1.33
33	LW	210	ARG	CZ-NH2	-8.19	1.22	1.33
39	Lc	255	ARG	CZ-NH2	-8.19	1.22	1.33
39	Lc	432	ARG	CZ-NH2	-8.19	1.22	1.33
45	Li	662	ARG	CZ-NH2	-8.19	1.22	1.33
52	Lp	456	ARG	CZ-NH2	-8.19	1.22	1.33
47	Lk	516	ARG	CZ-NH2	-8.19	1.22	1.33
53	Lq	850	ARG	CZ-NH2	-8.19	1.22	1.33
60	Lx	339	ARG	CZ-NH2	-8.19	1.22	1.33
62	Lz	142	ARG	CZ-NH2	-8.19	1.22	1.33
1	L0	373	ARG	CZ-NH2	-8.18	1.22	1.33
9	L8	234	ARG	CZ-NH2	-8.18	1.22	1.33
10	L9	459	ARG	CZ-NH2	-8.18	1.22	1.33
32	LV	370	ARG	CZ-NH2	-8.18	1.22	1.33
68	UF	61	ARG	CZ-NH2	-8.18	1.22	1.33
33	LW	439	ARG	CZ-NH2	-8.18	1.22	1.33
37	La	79	ARG	CZ-NH2	-8.18	1.22	1.33
51	Lo	231	ARG	CZ-NH2	-8.18	1.22	1.33
1	L0	406	ARG	CZ-NH2	-8.18	1.22	1.33
6	L5	476	ARG	CZ-NH2	-8.18	1.22	1.33
13	LC	246	ARG	CZ-NH2	-8.18	1.22	1.33
18	LH	248	ALA	CA-CB	-8.18	1.41	1.52
20	LJ	421	ARG	CZ-NH2	-8.18	1.22	1.33
21	LK	101	ARG	CZ-NH2	-8.18	1.22	1.33
21	LK	242	ARG	CZ-NH2	-8.18	1.22	1.33
40	Ld	510	ARG	CZ-NH2	-8.18	1.22	1.33
61	Ly	333	ARG	CZ-NH2	-8.18	1.22	1.33
61	Ly	637	ARG	CZ-NH2	-8.18	1.22	1.33
20	LJ	5	ARG	CZ-NH2	-8.18	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	LJ	284	ARG	CZ-NH2	-8.18	1.22	1.33
39	Lc	602	HIS	CD2-NE2	-8.18	1.28	1.37
44	Lh	402	ARG	CZ-NH2	-8.18	1.22	1.33
68	UF	8	ARG	CZ-NH2	-8.18	1.22	1.33
44	Lh	515	ARG	CZ-NH2	-8.18	1.22	1.33
3	L2	171	ARG	CZ-NH2	-8.18	1.22	1.33
13	LC	292	ARG	CZ-NH2	-8.18	1.22	1.33
21	LK	165	ARG	CZ-NH2	-8.18	1.22	1.33
33	LW	333	ARG	CZ-NH2	-8.18	1.22	1.33
28	LR	25	ARG	CZ-NH2	-8.18	1.22	1.33
38	Lb	356	HIS	CD2-NE2	-8.18	1.28	1.37
38	Lb	609	ARG	CZ-NH2	-8.18	1.22	1.33
39	Lc	353	ARG	CZ-NH2	-8.18	1.22	1.33
63	UA	245	ARG	CZ-NH2	-8.18	1.22	1.33
39	Lc	427	ARG	CZ-NH2	-8.18	1.22	1.33
53	Lq	556	ARG	CZ-NH2	-8.18	1.22	1.33
54	Lr	79	ARG	CZ-NH2	-8.18	1.22	1.33
61	Ly	543	ARG	CZ-NH2	-8.18	1.22	1.33
61	Ly	669	ARG	CZ-NH2	-8.18	1.22	1.33
11	LA	149	ARG	CZ-NH2	-8.17	1.22	1.33
12	LB	76	ARG	CZ-NH2	-8.17	1.22	1.33
14	LD	366	ARG	CZ-NH2	-8.17	1.22	1.33
61	Ly	300	ARG	CZ-NH2	-8.17	1.22	1.33
49	Lm	418	ARG	CZ-NH2	-8.17	1.22	1.33
51	Lo	147	ARG	CZ-NH2	-8.17	1.22	1.33
52	Lp	415	ARG	CZ-NH2	-8.17	1.22	1.33
52	Lp	496	ARG	CZ-NH2	-8.17	1.22	1.33
52	Lp	503	ARG	CZ-NH2	-8.17	1.22	1.33
5	L4	587	ARG	CZ-NH2	-8.17	1.22	1.33
9	L8	160	ARG	CZ-NH2	-8.17	1.22	1.33
28	LR	51	ARG	CZ-NH2	-8.17	1.22	1.33
32	LV	1080	ARG	CZ-NH2	-8.17	1.22	1.33
37	La	160	ARG	CZ-NH2	-8.17	1.22	1.33
40	Ld	613	ARG	CZ-NH2	-8.17	1.22	1.33
32	LV	1074	ARG	CZ-NH2	-8.17	1.22	1.33
1	L0	331	ARG	CZ-NH2	-8.17	1.22	1.33
4	L3	662	HIS	CD2-NE2	-8.17	1.28	1.37
4	L3	724	ARG	CZ-NH2	-8.17	1.22	1.33
13	LC	167	ARG	CZ-NH2	-8.17	1.22	1.33
13	LC	363	ARG	CZ-NH2	-8.17	1.22	1.33
36	LZ	106	ARG	CZ-NH2	-8.17	1.22	1.33
64	UB	350	ARG	CZ-NH2	-8.17	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	L3	642	ARG	CZ-NH2	-8.16	1.22	1.33
1	L0	626	HIS	CD2-NE2	-8.16	1.28	1.37
38	Lb	502	ARG	CZ-NH2	-8.16	1.22	1.33
43	Lg	86	ARG	CZ-NH2	-8.16	1.22	1.33
48	Ll	33	ARG	CZ-NH2	-8.16	1.22	1.33
61	Ly	338	ARG	CZ-NH2	-8.16	1.22	1.33
5	L4	325	ARG	CZ-NH2	-8.16	1.22	1.33
20	LJ	22	ARG	CZ-NH2	-8.16	1.22	1.33
38	Lb	505	ARG	CZ-NH2	-8.16	1.22	1.33
28	LR	36	ARG	CZ-NH2	-8.16	1.22	1.33
38	Lb	775	ARG	CZ-NH2	-8.16	1.22	1.33
43	Lg	134	ARG	CZ-NH2	-8.16	1.22	1.33
45	Li	710	ARG	CZ-NH2	-8.16	1.22	1.33
53	Lq	855	ARG	CZ-NH2	-8.16	1.22	1.33
9	L8	17	ARG	CZ-NH2	-8.16	1.22	1.33
71	UI	393	ARG	CZ-NH2	-8.16	1.22	1.33
43	Lg	140	ARG	CZ-NH2	-8.16	1.22	1.33
9	L8	236	ARG	CZ-NH2	-8.15	1.22	1.33
13	LC	139	ARG	CZ-NH2	-8.15	1.22	1.33
14	LD	552	HIS	CD2-NE2	-8.15	1.28	1.37
20	LJ	410	ARG	CZ-NH2	-8.15	1.22	1.33
14	LD	585	ARG	CZ-NH2	-8.15	1.22	1.33
33	LW	471	ARG	CZ-NH2	-8.15	1.22	1.33
38	Lb	494	ARG	CZ-NH2	-8.15	1.22	1.33
40	Ld	531	ARG	CZ-NH2	-8.15	1.22	1.33
39	Lc	460	HIS	CD2-NE2	-8.15	1.28	1.37
48	Ll	138	ARG	CZ-NH2	-8.15	1.22	1.33
53	Lq	679	ARG	CZ-NH2	-8.15	1.22	1.33
55	Ls	372	ARG	CZ-NH2	-8.15	1.22	1.33
64	UB	268	ARG	CZ-NH2	-8.15	1.22	1.33
2	L1	499	ARG	CZ-NH2	-8.15	1.22	1.33
20	LJ	24	ARG	CZ-NH2	-8.15	1.22	1.33
32	LV	613	ARG	CZ-NH2	-8.15	1.22	1.33
44	Lh	414	ARG	CZ-NH2	-8.15	1.22	1.33
46	Lj	102	ARG	CZ-NH2	-8.15	1.22	1.33
51	Lo	93	HIS	CD2-NE2	-8.15	1.28	1.37
53	Lq	563	ALA	CA-CB	-8.15	1.42	1.53
55	Ls	371	ARG	CZ-NH2	-8.15	1.22	1.33
20	LJ	119	ARG	CZ-NH2	-8.15	1.22	1.33
20	LJ	368	ARG	CZ-NH2	-8.15	1.22	1.33
1	L0	365	ARG	CZ-NH2	-8.15	1.22	1.33
25	LO	110	ARG	CZ-NH2	-8.15	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	Ly	363	ARG	CZ-NH2	-8.15	1.22	1.33
25	LO	127	ARG	CZ-NH2	-8.15	1.22	1.33
29	LS	3	ARG	CZ-NH2	-8.15	1.22	1.33
36	LZ	164	ARG	CZ-NH2	-8.15	1.22	1.33
41	Le	626	ARG	CZ-NH2	-8.15	1.22	1.33
44	Lh	436	ARG	CZ-NH2	-8.15	1.22	1.33
20	LJ	7	ARG	CZ-NH2	-8.14	1.22	1.33
20	LJ	331	ARG	CZ-NH2	-8.14	1.22	1.33
40	Ld	344	ARG	CZ-NH2	-8.14	1.22	1.33
45	Li	672	ARG	CZ-NH2	-8.14	1.22	1.33
62	Lz	203	ARG	CZ-NH2	-8.14	1.22	1.33
38	Lb	791	ARG	CZ-NH2	-8.14	1.22	1.33
40	Ld	493	HIS	CD2-NE2	-8.14	1.28	1.37
1	L0	457	ARG	CZ-NH2	-8.14	1.22	1.33
4	L3	570	ARG	CZ-NH2	-8.14	1.22	1.33
51	Lo	189	ARG	CZ-NH2	-8.14	1.22	1.33
52	Lp	699	ARG	CZ-NH2	-8.14	1.22	1.33
57	Lu	271	HIS	CD2-NE2	-8.14	1.28	1.37
53	Lq	667	HIS	CD2-NE2	-8.14	1.28	1.37
69	UG	257	ARG	CZ-NH2	-8.14	1.22	1.33
26	LP	152	HIS	CD2-NE2	-8.14	1.28	1.37
32	LV	474	ARG	CZ-NH2	-8.14	1.22	1.33
38	Lb	371	ARG	CZ-NH2	-8.14	1.22	1.33
41	Le	609	ARG	CZ-NH2	-8.14	1.22	1.33
22	LL	945	ARG	CZ-NH2	-8.14	1.22	1.33
1	L0	469	ARG	CZ-NH2	-8.13	1.22	1.33
35	LY	520	HIS	CD2-NE2	-8.14	1.28	1.37
32	LV	889	ARG	CZ-NH2	-8.13	1.22	1.33
38	Lb	685	ARG	CZ-NH2	-8.13	1.22	1.33
39	Lc	254	ARG	CZ-NH2	-8.13	1.22	1.33
40	Ld	549	ARG	CZ-NH2	-8.13	1.22	1.33
9	L8	116	ARG	CZ-NH2	-8.13	1.22	1.33
11	LA	169	ARG	CZ-NH2	-8.13	1.22	1.33
20	LJ	230	ARG	CZ-NH2	-8.13	1.22	1.33
23	LM	123	ARG	CZ-NH2	-8.13	1.22	1.33
46	Lj	66	ARG	CZ-NH2	-8.13	1.22	1.33
37	La	41	ALA	CA-CB	-8.13	1.42	1.53
38	Lb	296	ARG	CZ-NH2	-8.13	1.22	1.33
38	Lb	753	ARG	CZ-NH2	-8.13	1.22	1.33
39	Lc	613	ARG	CZ-NH2	-8.13	1.22	1.33
48	Ll	38	ARG	CZ-NH2	-8.13	1.22	1.33
64	UB	333	ARG	CZ-NH2	-8.13	1.22	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	Lw	149	HIS	CD2-NE2	-8.13	1.28	1.37
4	L3	429	ARG	CZ-NH2	-8.13	1.22	1.33
9	L8	24	GLY	N-CA	-8.13	1.38	1.45
27	LQ	396	ARG	CZ-NH2	-8.13	1.22	1.33
52	Lp	565	ARG	CZ-NH2	-8.13	1.22	1.33
13	LC	457	HIS	CD2-NE2	-8.12	1.28	1.37
26	LP	114	HIS	CD2-NE2	-8.13	1.28	1.37
62	Lz	173	HIS	CD2-NE2	-8.12	1.28	1.37
9	L8	139	ARG	CZ-NH2	-8.12	1.22	1.33
61	Ly	678	HIS	CD2-NE2	-8.12	1.28	1.37
17	LG	232	ARG	CZ-NH2	-8.12	1.22	1.33
27	LQ	381	ARG	CZ-NH2	-8.12	1.22	1.33
39	Lc	359	ARG	CZ-NH2	-8.12	1.22	1.33
48	Ll	10	HIS	CD2-NE2	-8.12	1.28	1.37
13	LC	170	ARG	CZ-NH2	-8.12	1.22	1.33
38	Lb	386	ARG	CZ-NH2	-8.12	1.22	1.33
38	Lb	423	ARG	CZ-NH2	-8.12	1.22	1.33
39	Lc	494	ARG	CZ-NH2	-8.12	1.22	1.33
45	Li	673	ARG	CZ-NH2	-8.12	1.22	1.33
25	LO	134	ARG	CZ-NH2	-8.12	1.22	1.33
33	LW	466	HIS	CD2-NE2	-8.12	1.28	1.37
40	Ld	359	ARG	CZ-NH2	-8.12	1.22	1.33
51	Lo	294	HIS	CD2-NE2	-8.12	1.28	1.37
54	Lr	269	ARG	CZ-NH2	-8.12	1.22	1.33
13	LC	567	ARG	CZ-NH2	-8.12	1.23	1.33
45	Li	275	ARG	CZ-NH2	-8.12	1.22	1.33
21	LK	162	HIS	CD2-NE2	-8.11	1.28	1.37
46	Lj	5	ARG	CZ-NH2	-8.11	1.23	1.33
1	L0	347	HIS	CD2-NE2	-8.11	1.28	1.37
9	L8	16	ARG	CZ-NH2	-8.11	1.23	1.33
53	Lq	666	ARG	CZ-NH2	-8.11	1.23	1.33
5	L4	469	ARG	CZ-NH2	-8.11	1.23	1.33
18	LH	204	ARG	CZ-NH2	-8.11	1.23	1.33
21	LK	251	HIS	CD2-NE2	-8.11	1.28	1.37
52	Lp	512	ARG	CZ-NH2	-8.11	1.23	1.33
47	Lk	535	GLY	N-CA	-8.11	1.38	1.45
25	LO	243	HIS	CD2-NE2	-8.11	1.28	1.37
32	LV	961	ARG	CZ-NH2	-8.11	1.23	1.33
9	L8	28	HIS	CD2-NE2	-8.10	1.28	1.37
33	LW	389	HIS	CD2-NE2	-8.10	1.28	1.37
53	Lq	650	HIS	CD2-NE2	-8.10	1.28	1.37
9	L8	52	ARG	CZ-NH2	-8.10	1.23	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	LD	504	ARG	CZ-NH2	-8.10	1.23	1.33
52	Lp	652	ARG	CZ-NH2	-8.10	1.23	1.33
24	LN	298	HIS	CD2-NE2	-8.10	1.28	1.37
32	LV	412	ARG	CZ-NH2	-8.10	1.23	1.33
45	Li	359	HIS	CD2-NE2	-8.10	1.28	1.37
4	L3	688	HIS	CD2-NE2	-8.10	1.28	1.37
25	LO	11	ARG	CZ-NH2	-8.10	1.23	1.33
57	Lu	494	HIS	CD2-NE2	-8.10	1.28	1.37
64	UB	304	ARG	CZ-NH2	-8.10	1.23	1.33
61	Ly	599	ARG	CZ-NH2	-8.10	1.23	1.33
20	LJ	263	HIS	CD2-NE2	-8.09	1.28	1.37
37	La	29	HIS	CD2-NE2	-8.09	1.28	1.37
64	UB	345	ARG	CZ-NH2	-8.09	1.23	1.33
34	LX	125	ARG	CZ-NH2	-8.09	1.23	1.33
44	Lh	712	ARG	CZ-NH2	-8.09	1.23	1.33
9	L8	93	HIS	CD2-NE2	-8.09	1.28	1.37
62	Lz	202	HIS	CD2-NE2	-8.09	1.28	1.37
45	Li	697	HIS	CD2-NE2	-8.09	1.28	1.37
56	Lt	228	HIS	CD2-NE2	-8.09	1.28	1.37
38	Lb	463	ARG	CZ-NH2	-8.09	1.23	1.33
21	LK	169	ARG	CZ-NH2	-8.08	1.23	1.33
33	LW	468	ARG	CZ-NH2	-8.08	1.23	1.33
50	Ln	136	HIS	CD2-NE2	-8.08	1.28	1.37
25	LO	163	HIS	CD2-NE2	-8.08	1.28	1.37
52	Lp	504	HIS	CD2-NE2	-8.08	1.28	1.37
52	Lp	645	ARG	CZ-NH2	-8.08	1.23	1.33
11	LA	21	HIS	CD2-NE2	-8.08	1.28	1.37
44	Lh	502	HIS	CD2-NE2	-8.08	1.28	1.37
53	Lq	184	HIS	CD2-NE2	-8.08	1.28	1.37
64	UB	328	ARG	CZ-NH2	-8.08	1.23	1.33
32	LV	893	HIS	CD2-NE2	-8.08	1.28	1.37
38	Lb	659	HIS	CD2-NE2	-8.08	1.28	1.37
60	Lx	303	HIS	CD2-NE2	-8.08	1.28	1.37
68	UF	11	HIS	CD2-NE2	-8.08	1.28	1.37
25	LO	113	HIS	CD2-NE2	-8.07	1.28	1.37
46	Lj	10	ARG	CZ-NH2	-8.07	1.23	1.33
10	L9	462	ARG	CZ-NH2	-8.07	1.23	1.33
9	L8	166	HIS	CD2-NE2	-8.07	1.28	1.37
22	LL	209	HIS	CD2-NE2	-8.07	1.28	1.37
56	Lt	255	HIS	CD2-NE2	-8.07	1.28	1.37
45	Li	478	HIS	CD2-NE2	-8.07	1.28	1.37
14	LD	394	HIS	CD2-NE2	-8.06	1.28	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	LY	267	HIS	CD2-NE2	-8.06	1.28	1.37
38	Lb	578	HIS	CD2-NE2	-8.06	1.28	1.37
57	Lu	260	HIS	CD2-NE2	-8.06	1.28	1.37
33	LW	242	HIS	CD2-NE2	-8.06	1.28	1.37
38	Lb	448	ARG	CZ-NH2	-8.06	1.23	1.33
39	Lc	215	HIS	CD2-NE2	-8.06	1.28	1.37
61	Ly	289	HIS	CD2-NE2	-8.06	1.28	1.37
24	LN	268	HIS	CD2-NE2	-8.06	1.28	1.37
49	Lm	257	HIS	CD2-NE2	-8.06	1.28	1.37
18	LH	202	HIS	CD2-NE2	-8.06	1.28	1.37
25	LO	305	HIS	CD2-NE2	-8.06	1.28	1.37
59	Lw	114	HIS	CD2-NE2	-8.06	1.28	1.37
62	Lz	207	HIS	CD2-NE2	-8.06	1.28	1.37
11	LA	18	HIS	CD2-NE2	-8.05	1.28	1.37
36	LZ	77	PRO	CA-CB	-8.05	1.46	1.54
40	Ld	460	HIS	CD2-NE2	-8.05	1.28	1.37
51	Lo	238	HIS	CD2-NE2	-8.05	1.28	1.37
55	Ls	340	HIS	CD2-NE2	-8.05	1.28	1.37
52	Lp	380	HIS	CD2-NE2	-8.05	1.28	1.37
52	Lp	460	HIS	CD2-NE2	-8.05	1.28	1.37
58	Lv	50	HIS	CD2-NE2	-8.05	1.28	1.37
39	Lc	589	HIS	CD2-NE2	-8.05	1.28	1.37
53	Lq	129	HIS	CD2-NE2	-8.04	1.29	1.37
69	UG	288	HIS	CD2-NE2	-8.05	1.28	1.37
20	LJ	42	HIS	CD2-NE2	-8.04	1.29	1.37
39	Lc	301	HIS	CD2-NE2	-8.04	1.29	1.37
67	UE	122	HIS	CD2-NE2	-8.04	1.29	1.37
22	LL	148	HIS	CD2-NE2	-8.04	1.29	1.37
53	Lq	697	HIS	CD2-NE2	-8.04	1.29	1.37
10	L9	461	ALA	CA-CB	-8.04	1.42	1.53
14	LD	338	HIS	CD2-NE2	-8.04	1.29	1.37
20	LJ	76	HIS	CD2-NE2	-8.04	1.29	1.37
22	LL	947	HIS	CD2-NE2	-8.04	1.29	1.37
39	Lc	493	HIS	CD2-NE2	-8.04	1.29	1.37
11	LA	184	HIS	CD2-NE2	-8.03	1.29	1.37
28	LR	122	HIS	CD2-NE2	-8.03	1.29	1.37
42	Lf	190	HIS	CD2-NE2	-8.03	1.29	1.37
44	Lh	718	HIS	CD2-NE2	-8.03	1.29	1.37
45	Li	534	HIS	CD2-NE2	-8.03	1.29	1.37
26	LP	128	HIS	CD2-NE2	-8.03	1.29	1.37
45	Li	585	HIS	CD2-NE2	-8.03	1.29	1.37
56	Lt	114	HIS	CD2-NE2	-8.03	1.29	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	Ly	590	HIS	CD2-NE2	-8.03	1.29	1.37
1	L0	433	HIS	CD2-NE2	-8.03	1.29	1.37
26	LP	187	HIS	CD2-NE2	-8.03	1.29	1.37
58	Lv	78	ARG	CZ-NH2	-8.03	1.23	1.33
54	Lr	101	HIS	CD2-NE2	-8.03	1.29	1.37
57	Lu	390	HIS	CD2-NE2	-8.03	1.29	1.37
38	Lb	637	HIS	CD2-NE2	-8.02	1.29	1.37
40	Ld	595	HIS	CD2-NE2	-8.02	1.29	1.37
5	L4	194	HIS	CD2-NE2	-8.02	1.29	1.37
35	LY	475	HIS	CD2-NE2	-8.02	1.29	1.37
26	LP	82	HIS	CD2-NE2	-8.02	1.29	1.37
46	Lj	20	HIS	CD2-NE2	-8.02	1.29	1.37
52	Lp	605	HIS	CD2-NE2	-8.02	1.29	1.37
31	LU	297	HIS	CD2-NE2	-8.02	1.29	1.37
52	Lp	631	HIS	CD2-NE2	-8.02	1.29	1.37
11	LA	186	HIS	CD2-NE2	-8.02	1.29	1.37
20	LJ	133	HIS	CD2-NE2	-8.02	1.29	1.37
40	Ld	500	HIS	CD2-NE2	-8.02	1.29	1.37
44	Lh	339	HIS	CD2-NE2	-8.02	1.29	1.37
30	LT	55	HIS	CD2-NE2	-8.01	1.29	1.37
38	Lb	688	HIS	CD2-NE2	-8.01	1.29	1.37
61	Ly	459	HIS	CD2-NE2	-8.01	1.29	1.37
41	Le	420	HIS	CD2-NE2	-8.01	1.29	1.37
44	Lh	512	HIS	CD2-NE2	-8.01	1.29	1.37
45	Li	688	HIS	CD2-NE2	-8.01	1.29	1.37
51	Lo	236	HIS	CD2-NE2	-8.01	1.29	1.37
4	L3	736	HIS	CD2-NE2	-8.01	1.29	1.37
7	L6	251	HIS	CD2-NE2	-8.01	1.29	1.37
20	LJ	311	HIS	CD2-NE2	-8.01	1.29	1.37
25	LO	131	HIS	CD2-NE2	-8.01	1.29	1.37
44	Lh	548	HIS	CD2-NE2	-8.01	1.29	1.37
55	Ls	388	HIS	CD2-NE2	-8.01	1.29	1.37
10	L9	460	HIS	CD2-NE2	-8.01	1.29	1.37
67	UE	137	HIS	CD2-NE2	-8.01	1.29	1.37
44	Lh	508	HIS	CD2-NE2	-8.00	1.29	1.37
38	Lb	364	HIS	CD2-NE2	-8.00	1.29	1.37
45	Li	689	HIS	CD2-NE2	-8.00	1.29	1.37
9	L8	27	HIS	CD2-NE2	-8.00	1.29	1.37
26	LP	167	HIS	CD2-NE2	-8.00	1.29	1.37
33	LW	467	HIS	CD2-NE2	-8.00	1.29	1.37
69	UG	270	HIS	CD2-NE2	-8.00	1.29	1.37
16	LF	132	HIS	CD2-NE2	-7.99	1.29	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
44	Lh	516	HIS	CD2-NE2	-7.99	1.29	1.37
2	L1	427	HIS	CD2-NE2	-7.99	1.29	1.37
19	LI	44	HIS	CD2-NE2	-7.99	1.29	1.37
48	Ll	92	HIS	CD2-NE2	-7.99	1.29	1.37
25	LO	8	HIS	CD2-NE2	-7.99	1.29	1.37
29	LS	115	HIS	CD2-NE2	-7.99	1.29	1.37
35	LY	402	HIS	CD2-NE2	-7.99	1.29	1.37
33	LW	469	HIS	CD2-NE2	-7.99	1.29	1.37
39	Lc	454	HIS	CD2-NE2	-7.99	1.29	1.37
64	UB	293	HIS	CD2-NE2	-7.99	1.29	1.37
33	LW	396	HIS	CD2-NE2	-7.99	1.29	1.37
37	La	197	HIS	CD2-NE2	-7.99	1.29	1.37
25	LO	303	HIS	CD2-NE2	-7.99	1.29	1.37
48	Ll	104	HIS	CD2-NE2	-7.99	1.29	1.37
1	L0	391	HIS	CD2-NE2	-7.98	1.29	1.37
14	LD	494	HIS	CD2-NE2	-7.98	1.29	1.37
22	LL	385	HIS	CD2-NE2	-7.98	1.29	1.37
38	Lb	286	HIS	CD2-NE2	-7.98	1.29	1.37
42	Lf	349	HIS	CD2-NE2	-7.98	1.29	1.37
5	L4	278	HIS	CD2-NE2	-7.98	1.29	1.37
16	LF	185	HIS	CD2-NE2	-7.98	1.29	1.37
31	LU	264	HIS	CD2-NE2	-7.98	1.29	1.37
32	LV	602	HIS	CD2-NE2	-7.98	1.29	1.37
36	LZ	43	HIS	CD2-NE2	-7.98	1.29	1.37
48	Ll	34	HIS	CD2-NE2	-7.98	1.29	1.37
50	Ln	160	HIS	CD2-NE2	-7.98	1.29	1.37
2	L1	438	HIS	CD2-NE2	-7.97	1.29	1.37
20	LJ	297	HIS	CD2-NE2	-7.97	1.29	1.37
53	Lq	481	HIS	CD2-NE2	-7.97	1.29	1.37
1	L0	377	HIS	CD2-NE2	-7.97	1.29	1.37
55	Ls	390	HIS	CD2-NE2	-7.97	1.29	1.37
22	LL	315	HIS	CD2-NE2	-7.96	1.29	1.37
31	LU	282	ALA	CA-CB	-7.96	1.43	1.54
28	LR	23	HIS	CD2-NE2	-7.96	1.29	1.37
33	LW	472	HIS	CD2-NE2	-7.96	1.29	1.37
65	UC	295	HIS	CD2-NE2	-7.96	1.29	1.37
69	UG	264	HIS	CD2-NE2	-7.96	1.29	1.37
69	UG	322	HIS	CD2-NE2	-7.96	1.29	1.37
1	L0	388	HIS	CD2-NE2	-7.95	1.29	1.37
32	LV	593	HIS	CD2-NE2	-7.95	1.29	1.37
13	LC	557	ALA	CA-CB	-7.95	1.42	1.53
35	LY	503	HIS	CD2-NE2	-7.95	1.29	1.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
56	Lt	108	HIS	CD2-NE2	-7.95	1.29	1.37
45	Li	364	HIS	CD2-NE2	-7.94	1.29	1.37
60	Lx	349	HIS	CD2-NE2	-7.94	1.29	1.37
1	L0	383	HIS	CD2-NE2	-7.94	1.29	1.37
11	LA	114	HIS	CD2-NE2	-7.93	1.29	1.37
53	Lq	132	HIS	CD2-NE2	-7.93	1.29	1.37
24	LN	325	HIS	CD2-NE2	-7.92	1.29	1.37
5	L4	314	HIS	CD2-NE2	-7.92	1.29	1.37
22	LL	296	HIS	CD2-NE2	-7.92	1.29	1.37
38	Lb	780	HIS	CD2-NE2	-7.92	1.29	1.37
43	Lg	188	HIS	CD2-NE2	-7.92	1.29	1.37
40	Ld	589	HIS	CD2-NE2	-7.91	1.29	1.37
51	Lo	91	HIS	CD2-NE2	-7.91	1.29	1.37
40	Ld	534	HIS	CD2-NE2	-7.91	1.29	1.37
41	Le	509	ALA	CA-CB	-7.91	1.42	1.52
13	LC	240	HIS	CD2-NE2	-7.90	1.29	1.37
45	Li	569	HIS	CD2-NE2	-7.90	1.29	1.37
48	Ll	37	HIS	CD2-NE2	-7.90	1.29	1.37
20	LJ	187	ALA	CA-CB	-7.88	1.42	1.53
56	Lt	121	HIS	CD2-NE2	-7.87	1.29	1.37
1	L0	605	HIS	CD2-NE2	-7.86	1.29	1.37
51	Lo	336	PRO	CA-CB	-7.84	1.47	1.54
56	Lt	260	HIS	CD2-NE2	-7.83	1.29	1.37
18	LH	240	ALA	CA-CB	-7.83	1.43	1.53
33	LW	419	GLY	N-CA	-7.81	1.38	1.45
31	LU	265	ALA	CA-CB	-7.81	1.42	1.53
32	LV	920	HIS	CD2-NE2	-7.79	1.29	1.37
32	LV	797	HIS	CD2-NE2	-7.77	1.29	1.37
32	LV	795	HIS	CD2-NE2	-7.77	1.29	1.37
19	LI	40	GLY	N-CA	-7.76	1.37	1.45
32	LV	921	HIS	CD2-NE2	-7.73	1.29	1.37
32	LV	651	HIS	CD2-NE2	-7.72	1.29	1.37
45	Li	620	ALA	CA-CB	-7.72	1.42	1.53
48	Ll	118	GLY	N-CA	-7.68	1.38	1.45
52	Lp	745	ARG	CZ-NH2	-7.68	1.23	1.33
39	Lc	637	ARG	CZ-NH2	-7.66	1.23	1.33
19	LI	75	ALA	CA-CB	-7.62	1.42	1.53
45	Li	584	ALA	CA-CB	-7.62	1.42	1.53
25	LO	239	ALA	CA-CB	-7.61	1.42	1.53
49	Lm	438	ARG	CZ-NH2	-7.59	1.23	1.33
22	LL	239	ALA	CA-CB	-7.59	1.43	1.52
36	LZ	59	ALA	CA-CB	-7.59	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	Ly	612	ALA	CA-CB	-7.56	1.42	1.53
23	LM	13	ALA	CA-CB	-7.56	1.42	1.53
61	Ly	677	ALA	CA-CB	-7.55	1.42	1.52
33	LW	227	ALA	CA-CB	-7.55	1.42	1.53
3	L2	125	ALA	CA-CB	-7.55	1.42	1.53
4	L3	569	ALA	CA-CB	-7.50	1.42	1.53
14	LD	346	ALA	CA-CB	-7.50	1.43	1.53
36	LZ	127	GLY	N-CA	-7.49	1.37	1.44
33	LW	497	ALA	CA-CB	-7.47	1.42	1.53
32	LV	1066	ALA	CA-CB	-7.46	1.43	1.54
61	Ly	568	ALA	CA-CB	-7.45	1.42	1.53
12	LB	17	GLY	N-CA	-7.44	1.37	1.45
25	LO	13	ALA	CA-CB	-7.41	1.42	1.53
53	Lq	611	ALA	CA-CB	-7.39	1.42	1.53
56	Lt	151	ALA	CA-CB	-7.39	1.43	1.54
45	Li	401	ALA	CA-CB	-7.38	1.42	1.53
53	Lq	183	ALA	CA-CB	-7.38	1.43	1.53
4	L3	701	ALA	CA-CB	-7.38	1.42	1.52
4	L3	624	ALA	CA-CB	-7.36	1.42	1.53
41	Le	602	PRO	CA-CB	-7.36	1.47	1.54
37	La	63	ALA	CA-CB	-7.34	1.42	1.53
36	LZ	14	ALA	CA-CB	-7.33	1.42	1.53
36	LZ	108	ALA	CA-CB	-7.33	1.42	1.52
25	LO	130	GLY	N-CA	-7.33	1.37	1.45
47	Lk	471	GLY	N-CA	-7.33	1.38	1.45
51	Lo	334	PRO	CA-CB	-7.32	1.47	1.53
15	LE	452	HIS	ND1-CE1	-7.28	1.25	1.32
35	LY	315	ALA	CA-CB	-7.28	1.42	1.53
15	LE	685	HIS	CE1-NE2	-7.28	1.25	1.32
11	LA	103	ALA	CA-CB	-7.27	1.42	1.53
3	L2	51	ALA	CA-CB	-7.27	1.42	1.53
25	LO	128	GLY	N-CA	-7.26	1.37	1.44
32	LV	352	ALA	CA-CB	-7.26	1.42	1.53
2	L1	425	ALA	CA-CB	-7.25	1.42	1.53
13	LC	159	ALA	CA-CB	-7.25	1.42	1.53
15	LE	420	HIS	CE1-NE2	-7.23	1.25	1.32
41	Le	540	GLY	N-CA	-7.23	1.37	1.45
15	LE	452	HIS	CE1-NE2	-7.22	1.25	1.32
25	LO	179	ALA	CA-CB	-7.22	1.42	1.53
15	LE	439	HIS	ND1-CE1	-7.21	1.25	1.32
3	L2	160	ALA	CA-CB	-7.21	1.42	1.53
53	Lq	383	ALA	CA-CB	-7.20	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	LD	339	ALA	CA-CB	-7.20	1.42	1.53
15	LE	439	HIS	CE1-NE2	-7.19	1.25	1.32
13	LC	141	ALA	CA-CB	-7.19	1.42	1.53
15	LE	514	HIS	ND1-CE1	-7.18	1.25	1.32
44	Lh	433	GLY	N-CA	-7.18	1.38	1.45
40	Ld	410	ALA	CA-CB	-7.17	1.42	1.53
24	LN	291	GLY	N-CA	-7.17	1.37	1.45
15	LE	420	HIS	ND1-CE1	-7.17	1.25	1.32
53	Lq	238	ALA	CA-CB	-7.16	1.42	1.53
36	LZ	64	ALA	CA-CB	-7.16	1.42	1.53
49	Lm	399	ALA	CA-CB	-7.15	1.42	1.53
49	Lm	438	ARG	CZ-NH1	-7.15	1.22	1.32
15	LE	685	HIS	ND1-CE1	-7.15	1.25	1.32
54	Lr	177	ALA	CA-CB	-7.14	1.42	1.53
58	Lv	53	ALA	CA-CB	-7.14	1.42	1.53
24	LN	281	GLY	N-CA	-7.14	1.38	1.45
15	LE	514	HIS	CE1-NE2	-7.13	1.25	1.32
20	LJ	256	ALA	CA-CB	-7.13	1.42	1.53
3	L2	196	ALA	CA-CB	-7.12	1.42	1.53
13	LC	118	GLY	N-CA	-7.11	1.38	1.45
52	Lp	745	ARG	CZ-NH1	-7.11	1.22	1.32
20	LJ	36	ALA	CA-CB	-7.11	1.42	1.53
13	LC	548	ALA	CA-CB	-7.11	1.42	1.53
23	LM	133	ALA	CA-CB	-7.11	1.42	1.53
41	Le	421	ALA	CA-CB	-7.11	1.42	1.53
64	UB	243	ALA	CA-CB	-7.11	1.42	1.53
4	L3	547	HIS	CE1-NE2	-7.10	1.25	1.32
32	LV	300	ALA	CA-CB	-7.10	1.42	1.53
36	LZ	83	ALA	CA-CB	-7.09	1.42	1.53
3	L2	186	ALA	CA-CB	-7.09	1.42	1.53
45	Li	589	ALA	CA-CB	-7.09	1.42	1.53
52	Lp	488	ALA	CA-CB	-7.09	1.42	1.53
38	Lb	587	ALA	CA-CB	-7.08	1.42	1.53
56	Lt	125	ALA	CA-CB	-7.08	1.42	1.53
38	Lb	650	ALA	CA-CB	-7.08	1.42	1.53
52	Lp	702	ALA	CA-CB	-7.08	1.42	1.53
60	Lx	290	ALA	CA-CB	-7.08	1.42	1.53
20	LJ	156	ALA	CA-CB	-7.08	1.42	1.53
22	LL	278	ALA	CA-CB	-7.08	1.42	1.53
42	Lf	360	ALA	CA-CB	-7.08	1.42	1.53
47	Lk	531	ALA	CA-CB	-7.08	1.42	1.53
57	Lu	324	ALA	CA-CB	-7.08	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
52	Lp	469	ALA	CA-CB	-7.08	1.42	1.53
12	LB	95	ALA	CA-CB	-7.07	1.42	1.53
13	LC	314	ALA	CA-CB	-7.07	1.42	1.53
34	LX	174	ALA	CA-CB	-7.07	1.42	1.53
38	Lb	506	ALA	CA-CB	-7.07	1.42	1.53
38	Lb	769	ALA	CA-CB	-7.07	1.42	1.53
59	Lw	87	GLY	N-CA	-7.07	1.37	1.45
55	Ls	381	ALA	CA-CB	-7.06	1.42	1.53
20	LJ	400	ALA	CA-CB	-7.06	1.42	1.53
41	Le	548	ALA	CA-CB	-7.06	1.42	1.53
63	UA	265	PRO	CA-CB	-7.06	1.47	1.53
3	L2	84	ALA	CA-CB	-7.06	1.42	1.53
18	LH	259	ALA	CA-CB	-7.06	1.42	1.53
38	Lb	714	ALA	CA-CB	-7.06	1.42	1.53
56	Lt	72	ALA	CA-CB	-7.06	1.42	1.53
51	Lo	191	ALA	CA-CB	-7.06	1.42	1.53
20	LJ	193	ALA	CA-CB	-7.05	1.42	1.53
39	Lc	410	ALA	CA-CB	-7.05	1.42	1.53
69	UG	395	ALA	CA-CB	-7.05	1.42	1.53
44	Lh	493	ALA	CA-CB	-7.05	1.42	1.53
46	Lj	46	ALA	CA-CB	-7.05	1.42	1.53
57	Lu	266	ALA	CA-CB	-7.05	1.42	1.53
38	Lb	396	ALA	CA-CB	-7.05	1.42	1.53
54	Lr	141	ALA	CA-CB	-7.05	1.42	1.53
47	Lk	539	ALA	CA-CB	-7.05	1.42	1.53
18	LH	255	ALA	CA-CB	-7.05	1.42	1.53
38	Lb	323	ALA	CA-CB	-7.05	1.42	1.53
53	Lq	225	ALA	CA-CB	-7.05	1.42	1.53
6	L5	467	ALA	CA-CB	-7.04	1.42	1.53
42	Lf	355	ALA	CA-CB	-7.04	1.42	1.53
44	Lh	416	ALA	CA-CB	-7.04	1.42	1.53
51	Lo	296	ALA	CA-CB	-7.04	1.42	1.53
68	UF	6	GLY	N-CA	-7.04	1.38	1.45
11	LA	82	ALA	CA-CB	-7.04	1.42	1.53
12	LB	59	ALA	CA-CB	-7.04	1.42	1.53
32	LV	590	ALA	CA-CB	-7.04	1.42	1.53
13	LC	317	ALA	CA-CB	-7.04	1.42	1.53
53	Lq	232	ALA	CA-CB	-7.04	1.42	1.53
5	L4	248	ALA	CA-CB	-7.04	1.42	1.53
12	LB	71	ALA	CA-CB	-7.04	1.42	1.53
13	LC	362	ALA	CA-CB	-7.04	1.42	1.53
38	Lb	581	ALA	CA-CB	-7.04	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
62	Lz	194	ALA	CA-CB	-7.04	1.42	1.53
39	Lc	439	ALA	CA-CB	-7.04	1.42	1.53
44	Lh	705	ALA	CA-CB	-7.04	1.42	1.53
5	L4	202	ALA	CA-CB	-7.03	1.42	1.53
22	LL	145	ALA	CA-CB	-7.03	1.42	1.53
40	Ld	377	ALA	CA-CB	-7.03	1.42	1.53
63	UA	249	ALA	CA-CB	-7.03	1.42	1.53
69	UG	365	ALA	CA-CB	-7.03	1.42	1.53
32	LV	477	PRO	CA-CB	-7.03	1.47	1.53
5	L4	201	ALA	CA-CB	-7.03	1.42	1.53
11	LA	182	ALA	CA-CB	-7.03	1.42	1.53
43	Lg	171	ALA	CA-CB	-7.03	1.42	1.53
44	Lh	418	ALA	CA-CB	-7.03	1.42	1.53
46	Lj	50	ALA	CA-CB	-7.03	1.42	1.53
57	Lu	305	ALA	CA-CB	-7.03	1.42	1.53
13	LC	550	ALA	CA-CB	-7.03	1.42	1.53
25	LO	191	ALA	CA-CB	-7.03	1.42	1.53
53	Lq	253	ALA	CA-CB	-7.03	1.42	1.53
38	Lb	339	ALA	CA-CB	-7.03	1.42	1.53
38	Lb	711	ALA	CA-CB	-7.03	1.42	1.53
43	Lg	84	ALA	CA-CB	-7.03	1.42	1.53
38	Lb	712	ALA	CA-CB	-7.02	1.42	1.53
38	Lb	736	ALA	CA-CB	-7.02	1.42	1.53
55	Ls	572	ALA	CA-CB	-7.02	1.42	1.53
32	LV	516	ALA	CA-CB	-7.02	1.42	1.53
39	Lc	458	ALA	CA-CB	-7.02	1.42	1.53
49	Lm	421	ALA	CA-CB	-7.02	1.42	1.53
22	LL	143	ALA	CA-CB	-7.02	1.42	1.53
22	LL	245	ALA	CA-CB	-7.02	1.42	1.53
52	Lp	434	PRO	CA-CB	-7.02	1.47	1.53
55	Ls	518	ALA	CA-CB	-7.02	1.42	1.53
27	LQ	360	ALA	CA-CB	-7.02	1.42	1.53
54	Lr	19	ALA	CA-CB	-7.02	1.42	1.53
56	Lt	75	ALA	CA-CB	-7.02	1.42	1.53
53	Lq	482	ALA	CA-CB	-7.01	1.42	1.53
14	LD	374	ALA	CA-CB	-7.01	1.42	1.53
20	LJ	71	ALA	CA-CB	-7.01	1.42	1.53
39	Lc	414	ALA	CA-CB	-7.01	1.42	1.53
43	Lg	85	ALA	CA-CB	-7.01	1.42	1.53
1	L0	422	ALA	CA-CB	-7.01	1.42	1.53
38	Lb	456	ALA	CA-CB	-7.01	1.42	1.53
38	Lb	793	ALA	CA-CB	-7.01	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	LJ	159	ALA	CA-CB	-7.01	1.42	1.53
38	Lb	990	ALA	CA-CB	-7.01	1.42	1.53
45	Li	625	ALA	CA-CB	-7.01	1.42	1.53
69	UG	369	ALA	CA-CB	-7.01	1.42	1.53
20	LJ	273	ALA	CA-CB	-7.00	1.42	1.53
9	L8	120	ALA	CA-CB	-7.00	1.43	1.53
20	LJ	252	ALA	CA-CB	-7.00	1.42	1.53
38	Lb	822	ALA	CA-CB	-7.00	1.42	1.53
41	Le	545	ALA	CA-CB	-7.00	1.42	1.53
45	Li	393	ALA	CA-CB	-7.00	1.42	1.53
45	Li	576	ALA	CA-CB	-7.00	1.42	1.53
53	Lq	231	ALA	CA-CB	-7.00	1.42	1.53
55	Ls	581	ALA	CA-CB	-7.00	1.42	1.53
59	Lw	160	ALA	CA-CB	-7.00	1.42	1.53
61	Ly	514	ALA	CA-CB	-7.00	1.42	1.53
22	LL	142	ALA	CA-CB	-7.00	1.42	1.53
32	LV	1078	ALA	CA-CB	-7.00	1.42	1.53
40	Ld	593	ALA	CA-CB	-7.00	1.42	1.53
41	Le	475	ALA	CA-CB	-7.00	1.42	1.53
58	Lv	82	GLY	N-CA	-7.00	1.37	1.45
54	Lr	261	GLY	N-CA	-7.00	1.38	1.45
9	L8	148	ALA	CA-CB	-7.00	1.42	1.53
40	Ld	524	ALA	CA-CB	-6.99	1.42	1.53
41	Le	423	ALA	CA-CB	-6.99	1.42	1.53
69	UG	311	ALA	CA-CB	-6.99	1.42	1.53
32	LV	289	PRO	CA-CB	-6.99	1.47	1.53
33	LW	393	ALA	CA-CB	-6.99	1.42	1.53
10	L9	342	HIS	CE1-NE2	-6.99	1.25	1.32
20	LJ	192	ALA	CA-CB	-6.99	1.42	1.53
47	Lk	430	HIS	ND1-CE1	-6.99	1.25	1.32
56	Lt	224	ALA	CA-CB	-6.99	1.42	1.53
11	LA	83	ALA	CA-CB	-6.99	1.42	1.53
20	LJ	172	ALA	CA-CB	-6.99	1.42	1.53
40	Ld	347	ALA	CA-CB	-6.99	1.42	1.53
44	Lh	545	ALA	CA-CB	-6.99	1.42	1.53
21	LK	259	ALA	CA-CB	-6.99	1.42	1.53
3	L2	226	ALA	CA-CB	-6.99	1.42	1.53
31	LU	278	ALA	CA-CB	-6.99	1.42	1.53
47	Lk	548	ALA	CA-CB	-6.99	1.42	1.53
20	LJ	70	ALA	CA-CB	-6.98	1.42	1.53
20	LJ	209	ALA	CA-CB	-6.98	1.42	1.53
21	LK	168	ALA	CA-CB	-6.98	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
57	Lu	295	ALA	CA-CB	-6.98	1.42	1.53
20	LJ	415	ALA	CA-CB	-6.98	1.42	1.53
23	LM	108	ALA	CA-CB	-6.98	1.42	1.53
40	Ld	414	ALA	CA-CB	-6.98	1.42	1.53
57	Lu	348	ALA	CA-CB	-6.98	1.42	1.53
64	UB	380	ALA	CA-CB	-6.98	1.42	1.53
38	Lb	389	ALA	CA-CB	-6.98	1.42	1.53
5	L4	584	ALA	CA-CB	-6.98	1.42	1.53
22	LL	144	ALA	CA-CB	-6.98	1.42	1.53
38	Lb	457	ALA	CA-CB	-6.98	1.42	1.53
38	Lb	689	ALA	CA-CB	-6.98	1.42	1.53
40	Ld	461	ALA	CA-CB	-6.98	1.42	1.53
12	LB	58	ALA	CA-CB	-6.98	1.42	1.53
47	Lk	543	ALA	CA-CB	-6.97	1.42	1.53
51	Lo	299	ALA	CA-CB	-6.97	1.42	1.53
1	L0	432	ALA	CA-CB	-6.97	1.42	1.53
13	LC	315	ALA	CA-CB	-6.97	1.42	1.53
29	LS	183	ALA	CA-CB	-6.97	1.42	1.53
41	Le	615	ALA	CA-CB	-6.97	1.42	1.53
43	Lg	168	ALA	CA-CB	-6.97	1.42	1.53
46	Lj	42	HIS	ND1-CE1	-6.97	1.25	1.32
1	L0	564	ALA	CA-CB	-6.97	1.42	1.53
45	Li	395	ALA	CA-CB	-6.97	1.42	1.53
13	LC	316	ALA	CA-CB	-6.96	1.42	1.53
26	LP	163	ALA	CA-CB	-6.96	1.43	1.53
32	LV	405	ALA	CA-CB	-6.96	1.42	1.53
38	Lb	649	ALA	CA-CB	-6.96	1.42	1.53
45	Li	531	ALA	CA-CB	-6.96	1.42	1.53
13	LC	547	ALA	CA-CB	-6.96	1.42	1.53
22	LL	331	ALA	CA-CB	-6.96	1.42	1.53
48	Ll	130	ALA	CA-CB	-6.96	1.42	1.53
1	L0	417	ALA	CA-CB	-6.96	1.42	1.53
5	L4	432	ALA	CA-CB	-6.96	1.42	1.53
69	UG	284	PRO	CA-CB	-6.96	1.47	1.53
38	Lb	471	ALA	CA-CB	-6.96	1.42	1.53
41	Le	543	ALA	CA-CB	-6.96	1.42	1.53
51	Lo	271	ALA	CA-CB	-6.96	1.43	1.53
38	Lb	493	ALA	CA-CB	-6.96	1.42	1.53
41	Le	613	ALA	CA-CB	-6.96	1.42	1.53
42	Lf	350	GLY	N-CA	-6.96	1.38	1.45
52	Lp	468	ALA	CA-CB	-6.96	1.42	1.53
4	L3	627	ALA	CA-CB	-6.96	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
22	LL	241	ALA	CA-CB	-6.96	1.42	1.53
32	LV	508	ALA	CA-CB	-6.96	1.42	1.53
20	LJ	65	ALA	CA-CB	-6.95	1.42	1.53
20	LJ	162	ALA	CA-CB	-6.95	1.42	1.53
12	LB	99	ALA	CA-CB	-6.95	1.42	1.53
22	LL	242	ALA	CA-CB	-6.95	1.42	1.53
20	LJ	64	ALA	CA-CB	-6.95	1.42	1.53
41	Le	630	ALA	CA-CB	-6.95	1.42	1.53
47	Lk	475	ALA	CA-CB	-6.95	1.42	1.53
58	Lv	32	ALA	CA-CB	-6.95	1.42	1.53
2	L1	448	ALA	CA-CB	-6.95	1.42	1.53
11	LA	164	PRO	CA-CB	-6.95	1.47	1.53
61	Ly	666	ALA	CA-CB	-6.95	1.42	1.53
35	LY	263	ALA	CA-CB	-6.95	1.42	1.53
53	Lq	677	ALA	CA-CB	-6.95	1.42	1.53
39	Lc	156	ALA	CA-CB	-6.94	1.42	1.53
6	L5	472	ALA	CA-CB	-6.94	1.42	1.53
37	La	100	ALA	CA-CB	-6.94	1.42	1.53
52	Lp	487	ALA	CA-CB	-6.94	1.42	1.53
1	L0	409	ALA	CA-CB	-6.94	1.42	1.53
20	LJ	19	ALA	CA-CB	-6.94	1.42	1.53
40	Ld	501	ALA	CA-CB	-6.94	1.42	1.53
41	Le	634	ALA	CA-CB	-6.94	1.42	1.53
46	Lj	42	HIS	CE1-NE2	-6.94	1.25	1.32
35	LY	392	ALA	CA-CB	-6.94	1.42	1.53
37	La	146	ALA	CA-CB	-6.94	1.42	1.53
41	Le	547	ALA	CA-CB	-6.94	1.42	1.53
44	Lh	634	ALA	CA-CB	-6.94	1.42	1.53
53	Lq	684	ALA	CA-CB	-6.93	1.42	1.53
12	LB	30	ALA	CA-CB	-6.93	1.42	1.53
13	LC	274	ALA	CA-CB	-6.93	1.42	1.53
38	Lb	662	PRO	CA-CB	-6.93	1.47	1.53
4	L3	422	ALA	CA-CB	-6.93	1.42	1.53
53	Lq	235	ALA	CA-CB	-6.93	1.42	1.53
53	Lq	686	ALA	CA-CB	-6.93	1.42	1.53
56	Lt	261	ALA	CA-CB	-6.93	1.42	1.53
3	L2	73	ALA	CA-CB	-6.93	1.42	1.53
32	LV	600	ALA	CA-CB	-6.93	1.42	1.53
20	LJ	136	ALA	CA-CB	-6.93	1.42	1.53
62	Lz	150	ALA	CA-CB	-6.93	1.42	1.53
53	Lq	165	ALA	CA-CB	-6.92	1.42	1.53
56	Lt	109	ALA	CA-CB	-6.92	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	Lc	411	ALA	CA-CB	-6.92	1.42	1.53
10	L9	342	HIS	ND1-CE1	-6.92	1.25	1.32
38	Lb	667	ALA	CA-CB	-6.92	1.42	1.53
39	Lc	461	ALA	CA-CB	-6.92	1.42	1.53
53	Lq	172	ALA	CA-CB	-6.92	1.42	1.53
40	Ld	530	ALA	CA-CB	-6.92	1.42	1.53
51	Lo	109	ALA	CA-CB	-6.92	1.42	1.53
20	LJ	141	ALA	CA-CB	-6.91	1.42	1.53
32	LV	483	ALA	CA-CB	-6.91	1.42	1.53
41	Le	635	ALA	CA-CB	-6.91	1.42	1.53
43	Lg	136	ALA	CA-CB	-6.91	1.42	1.53
49	Lm	330	ALA	CA-CB	-6.91	1.42	1.53
45	Li	635	ALA	CA-CB	-6.91	1.42	1.53
38	Lb	674	ALA	CA-CB	-6.91	1.42	1.53
26	LP	86	ALA	CA-CB	-6.90	1.42	1.53
20	LJ	143	ALA	CA-CB	-6.90	1.42	1.53
33	LW	306	GLY	N-CA	-6.90	1.37	1.45
41	Le	541	ALA	CA-CB	-6.90	1.42	1.53
43	Lg	124	ALA	CA-CB	-6.90	1.42	1.53
53	Lq	233	ALA	CA-CB	-6.90	1.42	1.53
38	Lb	341	ALA	CA-CB	-6.90	1.42	1.53
40	Ld	345	ALA	CA-CB	-6.90	1.42	1.53
4	L3	547	HIS	ND1-CE1	-6.90	1.25	1.32
3	L2	191	ALA	CA-CB	-6.90	1.42	1.53
55	Ls	576	ALA	CA-CB	-6.90	1.42	1.53
56	Lt	126	ALA	CA-CB	-6.90	1.42	1.53
22	LL	243	ALA	CA-CB	-6.89	1.42	1.53
32	LV	406	ALA	CA-CB	-6.89	1.42	1.53
38	Lb	461	ALA	CA-CB	-6.89	1.42	1.53
53	Lq	180	ALA	CA-CB	-6.89	1.42	1.53
1	L0	569	ALA	CA-CB	-6.89	1.42	1.53
49	Lm	409	ALA	CA-CB	-6.89	1.42	1.53
38	Lb	431	ALA	CA-CB	-6.88	1.43	1.53
38	Lb	507	ALA	CA-CB	-6.88	1.42	1.53
41	Le	601	ALA	CA-CB	-6.88	1.42	1.53
53	Lq	681	ALA	CA-CB	-6.88	1.42	1.53
69	UG	310	ALA	CA-CB	-6.88	1.42	1.53
22	LL	302	ALA	CA-CB	-6.88	1.42	1.53
47	Lk	430	HIS	CE1-NE2	-6.87	1.25	1.32
55	Ls	578	ALA	CA-CB	-6.87	1.42	1.53
56	Lt	127	ALA	CA-CB	-6.87	1.42	1.53
19	LI	25	ALA	CA-CB	-6.86	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
35	LY	257	ALA	CA-CB	-6.86	1.42	1.53
21	LK	115	ALA	CA-CB	-6.86	1.42	1.53
37	La	168	ALA	CA-CB	-6.86	1.41	1.53
38	Lb	482	ALA	CA-CB	-6.86	1.42	1.53
41	Le	561	ALA	CA-CB	-6.86	1.42	1.53
32	LV	245	ALA	CA-CB	-6.85	1.42	1.53
22	LL	240	ALA	CA-CB	-6.84	1.42	1.53
12	LB	68	ALA	CA-CB	-6.84	1.42	1.53
56	Lt	124	ALA	CA-CB	-6.84	1.42	1.53
69	UG	307	ALA	CA-CB	-6.84	1.42	1.53
28	LR	29	GLY	N-CA	-6.84	1.37	1.45
53	Lq	173	ALA	CA-CB	-6.84	1.42	1.53
49	Lm	425	ALA	CA-CB	-6.83	1.42	1.53
44	Lh	490	ALA	CA-CB	-6.83	1.42	1.53
68	UF	43	PRO	CA-CB	-6.83	1.47	1.53
22	LL	327	ALA	CA-CB	-6.82	1.42	1.53
71	UI	393	ARG	CZ-NH1	-6.82	1.23	1.32
12	LB	26	ALA	CA-CB	-6.81	1.42	1.53
33	LW	421	ALA	CA-CB	-6.81	1.42	1.53
47	Lk	410	ALA	CA-CB	-6.80	1.42	1.53
51	Lo	313	ALA	CA-CB	-6.80	1.42	1.53
32	LV	250	PRO	CA-CB	-6.79	1.47	1.53
40	Ld	419	ALA	CA-CB	-6.79	1.42	1.53
20	LJ	153	ALA	CA-CB	-6.79	1.42	1.53
4	L3	508	ALA	CA-CB	-6.79	1.42	1.53
13	LC	133	ARG	CZ-NH1	-6.79	1.23	1.32
16	LF	197	ALA	CA-CB	-6.79	1.43	1.53
60	Lx	370	ARG	CZ-NH1	-6.78	1.23	1.32
9	L8	160	ARG	CZ-NH1	-6.78	1.23	1.32
39	Lc	310	ARG	CZ-NH1	-6.78	1.23	1.32
54	Lr	36	ALA	CA-CB	-6.78	1.42	1.53
1	L0	331	ARG	CZ-NH1	-6.78	1.23	1.32
44	Lh	332	ARG	CZ-NH1	-6.77	1.23	1.32
60	Lx	337	ALA	CA-CB	-6.77	1.42	1.53
51	Lo	169	ALA	CA-CB	-6.77	1.43	1.53
11	LA	180	ALA	CA-CB	-6.77	1.42	1.53
33	LW	383	ALA	CA-CB	-6.77	1.42	1.53
55	Ls	413	ARG	CZ-NH1	-6.77	1.23	1.32
47	Lk	473	ALA	CA-CB	-6.77	1.42	1.53
69	UG	398	ARG	CZ-NH1	-6.77	1.23	1.32
39	Lc	531	ARG	CZ-NH2	-6.76	1.24	1.33
1	L0	390	ARG	CZ-NH1	-6.76	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	386	ARG	CZ-NH1	-6.76	1.23	1.32
27	LQ	357	ARG	CZ-NH1	-6.76	1.23	1.32
55	Ls	334	ARG	CZ-NH1	-6.76	1.23	1.32
14	LD	492	ARG	CZ-NH1	-6.76	1.23	1.32
45	Li	118	GLY	N-CA	-6.76	1.37	1.45
27	LQ	385	ALA	CA-CB	-6.75	1.42	1.53
36	LZ	57	ALA	CA-CB	-6.75	1.42	1.53
44	Lh	301	ALA	CA-CB	-6.75	1.42	1.53
9	L8	157	ARG	CZ-NH1	-6.75	1.23	1.32
55	Ls	345	ARG	CZ-NH1	-6.75	1.23	1.32
21	LK	101	ARG	CZ-NH1	-6.75	1.23	1.32
24	LN	344	ARG	CZ-NH1	-6.75	1.23	1.32
54	Lr	61	ARG	CZ-NH1	-6.75	1.23	1.32
12	LB	20	ARG	CZ-NH1	-6.75	1.23	1.32
53	Lq	125	ARG	CZ-NH1	-6.75	1.23	1.32
29	LS	16	ARG	CZ-NH1	-6.75	1.23	1.32
53	Lq	855	ARG	CZ-NH1	-6.75	1.23	1.32
53	Lq	474	ARG	CZ-NH1	-6.74	1.23	1.32
39	Lc	490	ARG	CZ-NH2	-6.74	1.24	1.33
20	LJ	24	ARG	CZ-NH1	-6.74	1.23	1.32
32	LV	242	ALA	CA-CB	-6.74	1.42	1.53
35	LY	355	ARG	CZ-NH1	-6.74	1.23	1.32
20	LJ	230	ARG	CZ-NH1	-6.74	1.23	1.32
26	LP	280	ARG	CZ-NH1	-6.74	1.23	1.32
28	LR	71	ARG	CZ-NH1	-6.74	1.23	1.32
40	Ld	510	ARG	CZ-NH1	-6.73	1.23	1.32
40	Ld	531	ARG	CZ-NH1	-6.73	1.23	1.32
25	LO	134	ARG	CZ-NH1	-6.73	1.23	1.32
51	Lo	291	ARG	CZ-NH1	-6.73	1.23	1.32
39	Lc	594	ARG	CZ-NH2	-6.73	1.24	1.33
54	Lr	20	ARG	CZ-NH1	-6.73	1.23	1.32
31	LU	271	ALA	CA-CB	-6.73	1.42	1.53
38	Lb	733	ALA	CA-CB	-6.73	1.42	1.53
55	Ls	395	ARG	CZ-NH1	-6.73	1.23	1.32
11	LA	165	PRO	CA-CB	-6.72	1.46	1.53
20	LJ	7	ARG	CZ-NH1	-6.72	1.23	1.32
21	LK	234	ARG	CZ-NH1	-6.72	1.23	1.32
39	Lc	268	ALA	CA-CB	-6.72	1.42	1.53
39	Lc	317	ARG	CZ-NH1	-6.72	1.23	1.32
1	L0	427	ARG	CZ-NH1	-6.72	1.23	1.32
6	L5	450	ARG	CZ-NH1	-6.72	1.23	1.32
20	LJ	31	ARG	CZ-NH1	-6.72	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
41	Le	624	ARG	CZ-NH1	-6.72	1.23	1.32
64	UB	350	ARG	CZ-NH1	-6.72	1.23	1.32
68	UF	16	ARG	CZ-NH1	-6.72	1.23	1.32
71	UI	391	ARG	CZ-NH1	-6.72	1.23	1.32
28	LR	31	ARG	CZ-NH1	-6.72	1.23	1.32
9	L8	16	ARG	CZ-NH1	-6.72	1.23	1.32
12	LB	61	ARG	CZ-NH1	-6.72	1.23	1.32
13	LC	121	ARG	CZ-NH1	-6.72	1.23	1.32
26	LP	104	ARG	CZ-NH1	-6.72	1.23	1.32
30	LT	12	ARG	CZ-NH1	-6.72	1.23	1.32
41	Le	518	ARG	CZ-NH1	-6.72	1.23	1.32
20	LJ	410	ARG	CZ-NH1	-6.72	1.23	1.32
24	LN	274	ARG	CZ-NH1	-6.72	1.23	1.32
3	L2	188	ARG	CZ-NH1	-6.72	1.23	1.32
25	LO	256	ARG	CZ-NH1	-6.72	1.23	1.32
32	LV	1008	ALA	CA-CB	-6.72	1.42	1.53
49	Lm	349	ARG	CZ-NH1	-6.72	1.23	1.32
49	Lm	418	ARG	CZ-NH1	-6.72	1.23	1.32
53	Lq	271	ARG	CZ-NH1	-6.72	1.23	1.32
55	Ls	362	ARG	CZ-NH1	-6.72	1.23	1.32
1	L0	457	ARG	CZ-NH1	-6.71	1.23	1.32
10	L9	453	ARG	CZ-NH1	-6.71	1.23	1.32
35	LY	506	ARG	CZ-NH1	-6.71	1.23	1.32
52	Lp	621	ARG	CZ-NH1	-6.71	1.23	1.32
61	Ly	637	ARG	CZ-NH1	-6.71	1.23	1.32
1	L0	469	ARG	CZ-NH1	-6.71	1.23	1.32
12	LB	76	ARG	CZ-NH1	-6.71	1.23	1.32
67	UE	125	ARG	CZ-NH1	-6.71	1.23	1.32
25	LO	109	ARG	CZ-NH1	-6.71	1.23	1.32
32	LV	370	ARG	CZ-NH1	-6.71	1.23	1.32
32	LV	1080	ARG	CZ-NH1	-6.71	1.23	1.32
53	Lq	666	ARG	CZ-NH1	-6.71	1.23	1.32
63	UA	239	ARG	CZ-NH1	-6.71	1.23	1.32
20	LJ	292	ARG	CZ-NH1	-6.71	1.23	1.32
28	LR	51	ARG	CZ-NH1	-6.71	1.23	1.32
44	Lh	432	PRO	CA-CB	-6.71	1.47	1.54
45	Li	591	ARG	CZ-NH1	-6.71	1.23	1.32
48	Ll	138	ARG	CZ-NH1	-6.71	1.23	1.32
54	Lr	265	ARG	CZ-NH1	-6.71	1.23	1.32
13	LC	476	ARG	CZ-NH1	-6.71	1.23	1.32
20	LJ	22	ARG	CZ-NH1	-6.71	1.23	1.32
39	Lc	612	ARG	CZ-NH1	-6.71	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
58	Lv	78	ARG	CZ-NH1	-6.71	1.23	1.32
1	L0	328	ARG	CZ-NH1	-6.71	1.23	1.32
38	Lb	723	ARG	CZ-NH1	-6.71	1.23	1.32
53	Lq	679	ARG	CZ-NH1	-6.71	1.23	1.32
22	LL	945	ARG	CZ-NH1	-6.70	1.23	1.32
37	La	149	ARG	CZ-NH1	-6.70	1.23	1.32
48	Ll	136	ARG	CZ-NH1	-6.70	1.23	1.32
64	UB	339	ARG	CZ-NH1	-6.70	1.23	1.32
68	UF	8	ARG	CZ-NH1	-6.70	1.23	1.32
3	L2	192	ARG	CZ-NH1	-6.70	1.23	1.32
39	Lc	353	ARG	CZ-NH1	-6.70	1.23	1.32
14	LD	585	ARG	CZ-NH1	-6.70	1.23	1.32
35	LY	333	ARG	CZ-NH1	-6.70	1.23	1.32
38	Lb	357	ARG	CZ-NH1	-6.70	1.23	1.32
39	Lc	204	ARG	CZ-NH1	-6.70	1.23	1.32
40	Ld	353	ARG	CZ-NH1	-6.70	1.23	1.32
53	Lq	652	ARG	CZ-NH1	-6.70	1.23	1.32
55	Ls	350	ARG	CZ-NH1	-6.70	1.23	1.32
4	L3	660	ARG	CZ-NH1	-6.70	1.23	1.32
7	L6	242	ARG	CZ-NH1	-6.70	1.23	1.32
10	L9	17	ARG	CZ-NH1	-6.70	1.23	1.32
13	LC	363	ARG	CZ-NH1	-6.70	1.23	1.32
14	LD	543	ARG	CZ-NH1	-6.70	1.23	1.32
35	LY	271	ARG	CZ-NH1	-6.70	1.23	1.32
38	Lb	502	ARG	CZ-NH1	-6.70	1.23	1.32
47	Lk	474	ARG	CZ-NH1	-6.70	1.23	1.32
39	Lc	518	ARG	CZ-NH2	-6.70	1.24	1.33
45	Li	665	ARG	CZ-NH1	-6.70	1.23	1.32
46	Lj	66	ARG	CZ-NH1	-6.70	1.23	1.32
1	L0	435	ALA	CA-CB	-6.70	1.42	1.53
5	L4	277	ARG	CZ-NH1	-6.70	1.23	1.32
7	L6	237	ARG	CZ-NH1	-6.70	1.23	1.32
36	LZ	50	ARG	CZ-NH1	-6.70	1.23	1.32
38	Lb	463	ARG	CZ-NH1	-6.70	1.23	1.32
41	Le	502	ARG	CZ-NH1	-6.70	1.23	1.32
41	Le	554	ARG	CZ-NH1	-6.70	1.23	1.32
44	Lh	408	ARG	CZ-NH1	-6.70	1.23	1.32
52	Lp	512	ARG	CZ-NH1	-6.70	1.23	1.32
53	Lq	163	GLY	N-CA	-6.70	1.37	1.45
53	Lq	556	ARG	CZ-NH1	-6.70	1.23	1.32
68	UF	33	ARG	CZ-NH1	-6.70	1.23	1.32
1	L0	343	ARG	CZ-NH1	-6.69	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L2	171	ARG	CZ-NH1	-6.69	1.23	1.32
8	L7	69	ARG	CZ-NH1	-6.69	1.23	1.32
17	LG	206	ARG	CZ-NH1	-6.69	1.23	1.32
20	LJ	291	ARG	CZ-NH1	-6.69	1.23	1.32
43	Lg	123	ARG	CZ-NH1	-6.69	1.23	1.32
48	Ll	4	ARG	CZ-NH1	-6.69	1.23	1.32
52	Lp	636	ARG	CZ-NH1	-6.69	1.23	1.32
5	L4	325	ARG	CZ-NH1	-6.69	1.23	1.32
13	LC	292	ARG	CZ-NH1	-6.69	1.23	1.32
23	LM	8	ARG	CZ-NH1	-6.69	1.23	1.32
36	LZ	194	ARG	CZ-NH1	-6.69	1.23	1.32
40	Ld	432	ARG	CZ-NH1	-6.69	1.23	1.32
46	Lj	58	ARG	CZ-NH1	-6.69	1.23	1.32
54	Lr	143	ARG	CZ-NH1	-6.69	1.23	1.32
69	UG	371	ARG	CZ-NH1	-6.69	1.23	1.32
29	LS	17	ARG	CZ-NH1	-6.69	1.23	1.32
39	Lc	359	ARG	CZ-NH1	-6.69	1.23	1.32
41	Le	510	ARG	CZ-NH1	-6.69	1.23	1.32
44	Lh	712	ARG	CZ-NH1	-6.69	1.23	1.32
51	Lo	120	ARG	CZ-NH1	-6.69	1.23	1.32
53	Lq	478	ARG	CZ-NH1	-6.69	1.23	1.32
8	L7	51	ARG	CZ-NH1	-6.69	1.23	1.32
38	Lb	905	ARG	CZ-NH1	-6.69	1.23	1.32
48	Ll	135	ARG	CZ-NH1	-6.69	1.23	1.32
52	Lp	503	ARG	CZ-NH1	-6.69	1.23	1.32
1	L0	589	ARG	CZ-NH1	-6.69	1.23	1.32
4	L3	429	ARG	CZ-NH1	-6.69	1.23	1.32
37	La	39	ARG	CZ-NH1	-6.69	1.23	1.32
40	Ld	359	ARG	CZ-NH1	-6.69	1.23	1.32
21	LK	218	ARG	CZ-NH2	-6.69	1.24	1.33
44	Lh	523	ARG	CZ-NH1	-6.69	1.23	1.32
68	UF	64	ARG	CZ-NH1	-6.69	1.23	1.32
28	LR	14	ARG	CZ-NH1	-6.68	1.23	1.32
38	Lb	358	ARG	CZ-NH1	-6.68	1.23	1.32
39	Lc	142	ARG	CZ-NH1	-6.68	1.23	1.32
48	Ll	29	ARG	CZ-NH1	-6.68	1.23	1.32
48	Ll	68	ARG	CZ-NH1	-6.68	1.23	1.32
52	Lp	557	ARG	CZ-NH1	-6.68	1.23	1.32
61	Ly	384	ARG	CZ-NH1	-6.68	1.23	1.32
17	LG	237	ARG	CZ-NH1	-6.68	1.23	1.32
20	LJ	331	ARG	CZ-NH1	-6.68	1.23	1.32
21	LK	169	ARG	CZ-NH1	-6.68	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	LN	289	ARG	CZ-NH1	-6.68	1.23	1.32
26	LP	281	ARG	CZ-NH1	-6.68	1.23	1.32
38	Lb	284	ARG	CZ-NH1	-6.68	1.23	1.32
44	Lh	414	ARG	CZ-NH1	-6.68	1.23	1.32
46	Lj	14	ARG	CZ-NH1	-6.68	1.23	1.32
46	Lj	114	ARG	CZ-NH1	-6.68	1.23	1.32
56	Lt	244	ARG	CZ-NH1	-6.68	1.23	1.32
1	L0	349	ARG	CZ-NH1	-6.68	1.23	1.32
16	LF	188	ARG	CZ-NH1	-6.68	1.23	1.32
35	LY	466	ARG	CZ-NH1	-6.68	1.23	1.32
40	Ld	612	ARG	CZ-NH1	-6.68	1.23	1.32
46	Lj	51	ARG	CZ-NH1	-6.68	1.23	1.32
5	L4	593	ARG	CZ-NH1	-6.68	1.23	1.32
11	LA	76	ARG	CZ-NH1	-6.68	1.23	1.32
13	LC	167	ARG	CZ-NH1	-6.68	1.23	1.32
13	LC	170	ARG	CZ-NH1	-6.68	1.23	1.32
14	LD	504	ARG	CZ-NH1	-6.68	1.23	1.32
20	LJ	260	ARG	CZ-NH1	-6.68	1.23	1.32
35	LY	360	GLY	N-CA	-6.68	1.38	1.45
44	Lh	569	ARG	CZ-NH1	-6.68	1.23	1.32
45	Li	314	ARG	CZ-NH1	-6.68	1.23	1.32
45	Li	631	ARG	CZ-NH1	-6.68	1.23	1.32
52	Lp	583	ARG	CZ-NH1	-6.68	1.23	1.32
69	UG	375	ARG	CZ-NH1	-6.68	1.23	1.32
8	L7	47	ARG	CZ-NH1	-6.68	1.23	1.32
30	LT	10	ARG	CZ-NH1	-6.68	1.23	1.32
60	Lx	339	ARG	CZ-NH1	-6.68	1.23	1.32
1	L0	406	ARG	CZ-NH1	-6.68	1.23	1.32
3	L2	41	ARG	CZ-NH1	-6.68	1.23	1.32
17	LG	214	ARG	CZ-NH1	-6.68	1.23	1.32
27	LQ	364	ARG	CZ-NH1	-6.68	1.23	1.32
31	LU	263	ARG	CZ-NH1	-6.68	1.23	1.32
39	Lc	615	ARG	CZ-NH1	-6.68	1.23	1.32
3	L2	128	ARG	CZ-NH1	-6.67	1.23	1.32
8	L7	71	ARG	CZ-NH1	-6.67	1.23	1.32
16	LF	129	ARG	CZ-NH1	-6.67	1.23	1.32
20	LJ	5	ARG	CZ-NH1	-6.67	1.23	1.32
21	LK	264	ARG	CZ-NH1	-6.67	1.23	1.32
35	LY	464	ARG	CZ-NH1	-6.67	1.23	1.32
52	Lp	565	ARG	CZ-NH1	-6.67	1.23	1.32
5	L4	223	ARG	CZ-NH1	-6.67	1.23	1.32
17	LG	235	ARG	CZ-NH1	-6.67	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
36	LZ	106	ARG	CZ-NH1	-6.67	1.23	1.32
36	LZ	110	ARG	CZ-NH1	-6.67	1.23	1.32
45	Li	662	ARG	CZ-NH1	-6.67	1.23	1.32
12	LB	13	ARG	CZ-NH1	-6.67	1.23	1.32
20	LJ	280	ARG	CZ-NH1	-6.67	1.23	1.32
43	Lg	140	ARG	CZ-NH1	-6.67	1.23	1.32
45	Li	125	ARG	CZ-NH1	-6.67	1.23	1.32
48	Ll	38	ARG	CZ-NH1	-6.67	1.23	1.32
3	L2	45	ARG	CZ-NH1	-6.67	1.23	1.32
21	LK	242	ARG	CZ-NH1	-6.67	1.23	1.32
45	Li	673	ARG	CZ-NH1	-6.67	1.23	1.32
49	Lm	412	ARG	CZ-NH1	-6.67	1.23	1.32
60	Lx	313	ARG	CZ-NH1	-6.67	1.23	1.32
1	L0	568	ARG	CZ-NH1	-6.67	1.23	1.32
20	LJ	290	ALA	CA-CB	-6.67	1.42	1.53
20	LJ	330	ARG	CZ-NH1	-6.67	1.23	1.32
22	LL	342	ARG	CZ-NH1	-6.67	1.23	1.32
26	LP	165	ARG	CZ-NH1	-6.67	1.23	1.32
39	Lc	320	ALA	CA-CB	-6.67	1.42	1.53
48	Ll	113	ARG	CZ-NH1	-6.67	1.23	1.32
55	Ls	371	ARG	CZ-NH1	-6.67	1.23	1.32
64	UB	267	ARG	CZ-NH1	-6.67	1.23	1.32
68	UF	32	ARG	CZ-NH1	-6.67	1.23	1.32
24	LN	328	ARG	CZ-NH1	-6.67	1.23	1.32
32	LV	486	ARG	CZ-NH1	-6.67	1.23	1.32
40	Ld	333	ARG	CZ-NH1	-6.67	1.23	1.32
49	Lm	265	ARG	CZ-NH1	-6.67	1.23	1.32
51	Lo	182	ARG	CZ-NH1	-6.67	1.23	1.32
55	Ls	375	ARG	CZ-NH1	-6.67	1.23	1.32
69	UG	313	ARG	CZ-NH1	-6.67	1.23	1.32
1	L0	385	ARG	CZ-NH1	-6.67	1.23	1.32
6	L5	475	ARG	CZ-NH1	-6.67	1.23	1.32
15	LE	371	ARG	CZ-NH1	-6.67	1.23	1.32
26	LP	257	ARG	CZ-NH1	-6.67	1.23	1.32
30	LT	15	ARG	CZ-NH1	-6.67	1.23	1.32
36	LZ	196	ARG	CZ-NH1	-6.67	1.23	1.32
38	Lb	371	ARG	CZ-NH1	-6.67	1.23	1.32
38	Lb	775	ARG	CZ-NH1	-6.67	1.23	1.32
1	L0	618	ARG	CZ-NH1	-6.66	1.23	1.32
3	L2	81	ARG	CZ-NH1	-6.66	1.23	1.32
11	LA	167	ARG	CZ-NH1	-6.66	1.23	1.32
25	LO	127	ARG	CZ-NH1	-6.66	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	LO	144	ARG	CZ-NH1	-6.66	1.23	1.32
40	Ld	310	ARG	CZ-NH1	-6.66	1.23	1.32
46	Lj	97	ARG	CZ-NH1	-6.66	1.23	1.32
23	LM	134	ARG	CZ-NH1	-6.66	1.23	1.32
27	LQ	398	ARG	CZ-NH1	-6.66	1.23	1.32
37	La	77	ARG	CZ-NH1	-6.66	1.23	1.32
37	La	160	ARG	CZ-NH1	-6.66	1.23	1.32
43	Lg	175	ARG	CZ-NH1	-6.66	1.23	1.32
53	Lq	700	ARG	CZ-NH1	-6.66	1.23	1.32
55	Ls	338	ARG	CZ-NH1	-6.66	1.23	1.32
59	Lw	163	ARG	CZ-NH1	-6.66	1.23	1.32
5	L4	586	ARG	CZ-NH1	-6.66	1.23	1.32
9	L8	17	ARG	CZ-NH1	-6.66	1.23	1.32
23	LM	63	ARG	CZ-NH1	-6.66	1.23	1.32
32	LV	961	ARG	CZ-NH1	-6.66	1.23	1.32
35	LY	443	ARG	CZ-NH1	-6.66	1.23	1.32
38	Lb	390	ARG	CZ-NH1	-6.66	1.23	1.32
40	Ld	317	ARG	CZ-NH1	-6.66	1.23	1.32
52	Lp	499	ARG	CZ-NH1	-6.66	1.23	1.32
61	Ly	586	ARG	CZ-NH1	-6.66	1.23	1.32
2	L1	499	ARG	CZ-NH1	-6.66	1.23	1.32
13	LC	246	ARG	CZ-NH1	-6.66	1.23	1.32
28	LR	22	ARG	CZ-NH1	-6.66	1.23	1.32
34	LX	111	ARG	CZ-NH1	-6.66	1.23	1.32
35	LY	260	ARG	CZ-NH1	-6.66	1.23	1.32
38	Lb	288	ARG	CZ-NH1	-6.66	1.23	1.32
38	Lb	685	ARG	CZ-NH1	-6.66	1.23	1.32
39	Lc	427	ARG	CZ-NH1	-6.66	1.23	1.32
43	Lg	230	ARG	CZ-NH1	-6.66	1.23	1.32
45	Li	603	ARG	CZ-NH1	-6.66	1.23	1.32
53	Lq	523	ARG	CZ-NH1	-6.66	1.23	1.32
56	Lt	265	ARG	CZ-NH1	-6.66	1.23	1.32
57	Lu	256	ARG	CZ-NH1	-6.66	1.23	1.32
59	Lw	20	ARG	CZ-NH1	-6.66	1.23	1.32
67	UE	185	ARG	CZ-NH1	-6.66	1.23	1.32
4	L3	505	ARG	CZ-NH1	-6.66	1.23	1.32
11	LA	169	ARG	CZ-NH1	-6.66	1.23	1.32
27	LQ	359	ARG	CZ-NH1	-6.66	1.23	1.32
30	LT	81	ARG	CZ-NH1	-6.66	1.23	1.32
38	Lb	609	ARG	CZ-NH1	-6.66	1.23	1.32
4	L3	570	ARG	CZ-NH1	-6.66	1.23	1.32
8	L7	13	ARG	CZ-NH1	-6.66	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
10	L9	456	ARG	CZ-NH1	-6.66	1.23	1.32
11	LA	149	ARG	CZ-NH1	-6.66	1.23	1.32
21	LK	143	ARG	CZ-NH1	-6.66	1.23	1.32
32	LV	407	ARG	CZ-NH1	-6.66	1.23	1.32
32	LV	889	ARG	CZ-NH1	-6.66	1.23	1.32
37	La	79	ARG	CZ-NH1	-6.66	1.23	1.32
38	Lb	314	ARG	CZ-NH1	-6.66	1.23	1.32
38	Lb	899	ARG	CZ-NH1	-6.66	1.23	1.32
41	Le	609	ARG	CZ-NH1	-6.66	1.23	1.32
46	Lj	102	ARG	CZ-NH1	-6.66	1.23	1.32
51	Lo	184	ARG	CZ-NH1	-6.66	1.23	1.32
57	Lu	279	ARG	CZ-NH1	-6.66	1.23	1.32
69	UG	263	ARG	CZ-NH1	-6.66	1.23	1.32
25	LO	125	ARG	CZ-NH1	-6.65	1.23	1.32
41	Le	573	ARG	CZ-NH1	-6.65	1.23	1.32
43	Lg	82	ARG	CZ-NH1	-6.65	1.23	1.32
52	Lp	623	ARG	CZ-NH1	-6.65	1.23	1.32
53	Lq	688	ARG	CZ-NH1	-6.65	1.23	1.32
61	Ly	458	ARG	CZ-NH1	-6.65	1.23	1.32
20	LJ	421	ARG	CZ-NH1	-6.65	1.23	1.32
22	LL	549	ARG	CZ-NH1	-6.65	1.23	1.32
23	LM	109	ARG	CZ-NH1	-6.65	1.23	1.32
37	La	92	ARG	CZ-NH1	-6.65	1.23	1.32
61	Ly	285	ARG	CZ-NH1	-6.65	1.23	1.32
63	UA	251	ARG	CZ-NH1	-6.65	1.23	1.32
70	UH	273	ARG	CZ-NH1	-6.65	1.23	1.32
1	L0	258	ARG	CZ-NH1	-6.65	1.23	1.32
1	L0	373	ARG	CZ-NH1	-6.65	1.23	1.32
12	LB	29	ARG	CZ-NH1	-6.65	1.23	1.32
13	LC	139	ARG	CZ-NH1	-6.65	1.23	1.32
20	LJ	213	ARG	CZ-NH1	-6.65	1.23	1.32
27	LQ	415	ARG	CZ-NH1	-6.65	1.23	1.32
33	LW	286	ARG	CZ-NH1	-6.65	1.23	1.32
33	LW	325	ARG	CZ-NH1	-6.65	1.23	1.32
38	Lb	404	ARG	CZ-NH1	-6.65	1.23	1.32
47	Lk	540	ARG	CZ-NH1	-6.65	1.23	1.32
51	Lo	214	ARG	CZ-NH1	-6.65	1.23	1.32
51	Lo	315	ARG	CZ-NH1	-6.65	1.23	1.32
53	Lq	107	ARG	CZ-NH1	-6.65	1.23	1.32
55	Ls	367	ARG	CZ-NH1	-6.65	1.23	1.32
55	Ls	373	ARG	CZ-NH1	-6.65	1.23	1.32
61	Ly	383	ARG	CZ-NH1	-6.65	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	Ly	589	ARG	CZ-NH1	-6.65	1.23	1.32
65	UC	293	ARG	CZ-NH1	-6.65	1.23	1.32
1	L0	365	ARG	CZ-NH1	-6.65	1.23	1.32
20	LJ	170	ARG	CZ-NH1	-6.65	1.23	1.32
20	LJ	284	ARG	CZ-NH1	-6.65	1.23	1.32
33	LW	462	ARG	CZ-NH1	-6.65	1.23	1.32
38	Lb	384	ARG	CZ-NH1	-6.65	1.23	1.32
43	Lg	115	ARG	CZ-NH1	-6.65	1.23	1.32
49	Lm	293	GLY	N-CA	-6.65	1.38	1.45
52	Lp	698	ARG	CZ-NH1	-6.65	1.23	1.32
52	Lp	720	ARG	CZ-NH1	-6.65	1.23	1.32
55	Ls	344	ARG	CZ-NH1	-6.65	1.23	1.32
6	L5	476	ARG	CZ-NH1	-6.65	1.23	1.32
14	LD	529	ARG	CZ-NH1	-6.65	1.23	1.32
20	LJ	113	ARG	CZ-NH1	-6.65	1.23	1.32
20	LJ	395	ARG	CZ-NH1	-6.65	1.23	1.32
25	LO	99	ARG	CZ-NH1	-6.65	1.23	1.32
40	Ld	613	ARG	CZ-NH1	-6.65	1.23	1.32
41	Le	489	ARG	CZ-NH1	-6.65	1.23	1.32
52	Lp	414	ARG	CZ-NH1	-6.65	1.23	1.32
52	Lp	517	ARG	CZ-NH1	-6.65	1.23	1.32
52	Lp	689	ARG	CZ-NH1	-6.65	1.23	1.32
53	Lq	656	ALA	CA-CB	-6.65	1.42	1.53
54	Lr	13	ARG	CZ-NH1	-6.65	1.23	1.32
54	Lr	255	ARG	CZ-NH1	-6.65	1.23	1.32
62	Lz	236	ARG	CZ-NH1	-6.65	1.23	1.32
67	UE	127	ARG	CZ-NH1	-6.65	1.23	1.32
53	Lq	120	ARG	CZ-NH1	-6.65	1.23	1.32
70	UH	246	ALA	CA-CB	-6.65	1.42	1.53
11	LA	87	ARG	CZ-NH1	-6.64	1.23	1.32
20	LJ	9	ARG	CZ-NH1	-6.64	1.23	1.32
24	LN	319	ARG	CZ-NH1	-6.64	1.23	1.32
33	LW	217	ARG	CZ-NH1	-6.64	1.23	1.32
38	Lb	423	ARG	CZ-NH1	-6.64	1.23	1.32
39	Lc	526	ARG	CZ-NH2	-6.64	1.24	1.33
54	Lr	17	ARG	CZ-NH1	-6.64	1.23	1.32
54	Lr	269	ARG	CZ-NH1	-6.64	1.23	1.32
59	Lw	13	ARG	CZ-NH1	-6.64	1.23	1.32
1	L0	586	ARG	CZ-NH1	-6.64	1.23	1.32
3	L2	71	ARG	CZ-NH1	-6.64	1.23	1.32
9	L8	161	ARG	CZ-NH1	-6.64	1.23	1.32
20	LJ	186	ALA	CA-CB	-6.64	1.43	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
25	LO	9	ARG	CZ-NH1	-6.64	1.23	1.32
35	LY	249	ARG	CZ-NH1	-6.64	1.23	1.32
36	LZ	101	ARG	CZ-NH1	-6.64	1.23	1.32
41	Le	629	ARG	CZ-NH1	-6.64	1.23	1.32
42	Lf	342	ARG	CZ-NH1	-6.64	1.23	1.32
45	Li	601	ARG	CZ-NH1	-6.64	1.23	1.32
48	Ll	42	ARG	CZ-NH1	-6.64	1.23	1.32
51	Lo	333	ARG	CZ-NH1	-6.64	1.23	1.32
61	Ly	596	ARG	CZ-NH1	-6.64	1.23	1.32
61	Ly	669	ARG	CZ-NH1	-6.64	1.23	1.32
6	L5	458	ARG	CZ-NH1	-6.64	1.23	1.32
15	LE	376	ARG	CZ-NH1	-6.64	1.23	1.32
20	LJ	368	ARG	CZ-NH1	-6.64	1.23	1.32
38	Lb	361	ARG	CZ-NH1	-6.64	1.23	1.32
38	Lb	394	ARG	CZ-NH1	-6.64	1.23	1.32
64	UB	366	ARG	CZ-NH1	-6.64	1.23	1.32
69	UG	262	ARG	CZ-NH1	-6.64	1.23	1.32
4	L3	642	ARG	CZ-NH1	-6.64	1.23	1.32
18	LH	204	ARG	CZ-NH1	-6.64	1.23	1.32
29	LS	3	ARG	CZ-NH1	-6.64	1.23	1.32
32	LV	1074	ARG	CZ-NH1	-6.64	1.23	1.32
41	Le	550	ARG	CZ-NH1	-6.64	1.23	1.32
44	Lh	715	ARG	CZ-NH1	-6.64	1.23	1.32
44	Lh	740	ARG	CZ-NH1	-6.64	1.23	1.32
52	Lp	496	ARG	CZ-NH1	-6.64	1.23	1.32
61	Ly	300	ARG	CZ-NH1	-6.64	1.23	1.32
64	UB	304	ARG	CZ-NH1	-6.64	1.23	1.32
36	LZ	70	ARG	CZ-NH1	-6.64	1.23	1.32
38	Lb	842	ARG	CZ-NH1	-6.64	1.23	1.32
52	Lp	456	ARG	CZ-NH1	-6.64	1.23	1.32
55	Ls	402	ARG	CZ-NH1	-6.64	1.23	1.32
64	UB	229	GLY	N-CA	-6.64	1.38	1.45
5	L4	269	ARG	CZ-NH1	-6.64	1.23	1.32
25	LO	116	ARG	CZ-NH1	-6.64	1.23	1.32
30	LT	33	ARG	CZ-NH1	-6.64	1.23	1.32
36	LZ	5	ARG	CZ-NH1	-6.64	1.23	1.32
39	Lc	254	ARG	CZ-NH1	-6.64	1.23	1.32
43	Lg	234	ARG	CZ-NH1	-6.64	1.23	1.32
45	Li	672	ARG	CZ-NH1	-6.64	1.23	1.32
55	Ls	372	ARG	CZ-NH1	-6.64	1.23	1.32
4	L3	734	ARG	CZ-NH1	-6.63	1.23	1.32
5	L4	355	ARG	CZ-NH1	-6.63	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
9	L8	21	ARG	CZ-NH1	-6.63	1.23	1.32
15	LE	383	ARG	CZ-NH1	-6.63	1.23	1.32
17	LG	232	ARG	CZ-NH1	-6.63	1.23	1.32
27	LQ	381	ARG	CZ-NH1	-6.63	1.23	1.32
32	LV	479	ARG	CZ-NH1	-6.63	1.23	1.32
34	LX	176	ARG	CZ-NH1	-6.63	1.23	1.32
35	LY	427	ARG	CZ-NH1	-6.63	1.23	1.32
37	La	85	ARG	CZ-NH1	-6.63	1.23	1.32
46	Lj	30	ARG	CZ-NH1	-6.63	1.23	1.32
51	Lo	347	ARG	CZ-NH1	-6.63	1.23	1.32
52	Lp	604	ARG	CZ-NH1	-6.63	1.23	1.32
56	Lt	97	ARG	CZ-NH1	-6.63	1.23	1.32
22	LL	909	ARG	CZ-NH1	-6.63	1.23	1.32
39	Lc	452	ARG	CZ-NH1	-6.63	1.23	1.32
44	Lh	657	ARG	CZ-NH1	-6.63	1.23	1.32
59	Lw	156	ARG	CZ-NH1	-6.63	1.23	1.32
60	Lx	368	ARG	CZ-NH1	-6.63	1.23	1.32
61	Ly	599	ARG	CZ-NH1	-6.63	1.23	1.32
9	L8	145	ARG	CZ-NH1	-6.63	1.23	1.32
33	LW	379	ARG	CZ-NH1	-6.63	1.23	1.32
39	Lc	432	ARG	CZ-NH1	-6.63	1.23	1.32
49	Lm	372	ARG	CZ-NH1	-6.63	1.23	1.32
55	Ls	588	ARG	CZ-NH1	-6.63	1.23	1.32
58	Lv	74	ARG	CZ-NH1	-6.63	1.23	1.32
10	L9	459	ARG	CZ-NH1	-6.63	1.23	1.32
40	Ld	494	ARG	CZ-NH1	-6.63	1.23	1.32
45	Li	523	ARG	CZ-NH1	-6.63	1.23	1.32
51	Lo	231	ARG	CZ-NH1	-6.63	1.23	1.32
66	UD	169	ARG	CZ-NH1	-6.63	1.23	1.32
5	L4	469	ARG	CZ-NH1	-6.63	1.23	1.32
8	L7	70	ARG	CZ-NH1	-6.63	1.23	1.32
16	LF	156	ARG	CZ-NH1	-6.63	1.23	1.32
16	LF	170	GLY	N-CA	-6.63	1.38	1.45
19	LI	42	GLY	N-CA	-6.63	1.38	1.45
27	LQ	351	ARG	CZ-NH1	-6.63	1.23	1.32
33	LW	210	ARG	CZ-NH1	-6.63	1.23	1.32
38	Lb	746	ARG	CZ-NH1	-6.63	1.23	1.32
39	Lc	147	ALA	CA-CB	-6.63	1.42	1.53
49	Lm	291	ARG	CZ-NH1	-6.63	1.23	1.32
12	LB	18	ARG	CZ-NH1	-6.63	1.23	1.32
13	LC	554	ARG	CZ-NH1	-6.63	1.23	1.32
21	LK	165	ARG	CZ-NH1	-6.63	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	494	ARG	CZ-NH1	-6.63	1.23	1.32
38	Lb	652	ARG	CZ-NH1	-6.63	1.23	1.32
40	Ld	518	ARG	CZ-NH1	-6.63	1.23	1.32
43	Lg	203	ARG	CZ-NH1	-6.63	1.23	1.32
50	Ln	149	ARG	CZ-NH1	-6.63	1.23	1.32
51	Lo	147	ARG	CZ-NH1	-6.63	1.23	1.32
53	Lq	850	ARG	CZ-NH1	-6.63	1.23	1.32
1	L0	380	ALA	CA-CB	-6.62	1.42	1.53
6	L5	469	ARG	CZ-NH1	-6.62	1.23	1.32
13	LC	319	ARG	CZ-NH1	-6.62	1.23	1.32
25	LO	333	ALA	CA-CB	-6.62	1.42	1.53
33	LW	468	ARG	CZ-NH1	-6.62	1.23	1.32
40	Ld	490	ARG	CZ-NH1	-6.62	1.23	1.32
64	UB	295	ARG	CZ-NH1	-6.62	1.23	1.32
17	LG	236	ARG	CZ-NH1	-6.62	1.23	1.32
25	LO	11	ARG	CZ-NH1	-6.62	1.23	1.32
25	LO	87	ARG	CZ-NH1	-6.62	1.23	1.32
30	LT	46	ARG	CZ-NH1	-6.62	1.23	1.32
38	Lb	720	ARG	CZ-NH1	-6.62	1.23	1.32
42	Lf	314	ARG	CZ-NH1	-6.62	1.23	1.32
44	Lh	637	ARG	CZ-NH1	-6.62	1.23	1.32
46	Lj	74	ARG	CZ-NH1	-6.62	1.23	1.32
62	Lz	203	ARG	CZ-NH1	-6.62	1.23	1.32
63	UA	245	ARG	CZ-NH1	-6.62	1.23	1.32
11	LA	131	ARG	CZ-NH1	-6.62	1.23	1.32
14	LD	351	ARG	CZ-NH1	-6.62	1.23	1.32
38	Lb	721	ARG	CZ-NH1	-6.62	1.23	1.32
40	Ld	344	ARG	CZ-NH1	-6.62	1.23	1.32
41	Le	515	ARG	CZ-NH1	-6.62	1.23	1.32
44	Lh	515	ARG	CZ-NH1	-6.62	1.23	1.32
52	Lp	650	ARG	CZ-NH1	-6.62	1.23	1.32
56	Lt	106	ARG	CZ-NH1	-6.62	1.23	1.32
67	UE	144	ARG	CZ-NH1	-6.62	1.23	1.32
1	L0	434	ARG	CZ-NH1	-6.62	1.23	1.32
18	LH	232	ARG	CZ-NH1	-6.62	1.23	1.32
32	LV	474	ARG	CZ-NH1	-6.62	1.23	1.32
37	La	30	ARG	CZ-NH1	-6.62	1.23	1.32
43	Lg	134	ARG	CZ-NH1	-6.62	1.23	1.32
51	Lo	151	ARG	CZ-NH1	-6.62	1.23	1.32
12	LB	27	ARG	CZ-NH1	-6.62	1.23	1.32
13	LC	169	ARG	CZ-NH1	-6.62	1.23	1.32
20	LJ	119	ARG	CZ-NH1	-6.62	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
29	LS	144	ARG	CZ-NH1	-6.62	1.23	1.32
31	LU	239	ARG	CZ-NH1	-6.62	1.23	1.32
43	Lg	50	ALA	CA-CB	-6.62	1.42	1.53
68	UF	61	ARG	CZ-NH1	-6.62	1.23	1.32
9	L8	100	ALA	CA-CB	-6.62	1.42	1.53
24	LN	259	ARG	CZ-NH1	-6.62	1.23	1.32
25	LO	110	ARG	CZ-NH1	-6.62	1.23	1.32
42	Lf	326	ARG	CZ-NH1	-6.62	1.23	1.32
46	Lj	113	ARG	CZ-NH1	-6.62	1.23	1.32
51	Lo	114	ARG	CZ-NH1	-6.62	1.23	1.32
55	Ls	385	ARG	CZ-NH1	-6.62	1.23	1.32
56	Lt	71	ARG	CZ-NH1	-6.62	1.23	1.32
6	L5	468	ARG	CZ-NH1	-6.62	1.23	1.32
9	L8	118	ARG	CZ-NH1	-6.62	1.23	1.32
11	LA	136	ALA	CA-CB	-6.62	1.42	1.53
22	LL	298	ARG	CZ-NH1	-6.62	1.23	1.32
25	LO	101	ARG	CZ-NH1	-6.62	1.23	1.32
25	LO	121	ARG	CZ-NH1	-6.62	1.23	1.32
51	Lo	189	ARG	CZ-NH1	-6.62	1.23	1.32
51	Lo	265	ARG	CZ-NH1	-6.62	1.23	1.32
52	Lp	645	ARG	CZ-NH1	-6.62	1.23	1.32
52	Lp	648	ARG	CZ-NH1	-6.62	1.23	1.32
54	Lr	79	ARG	CZ-NH1	-6.62	1.23	1.32
5	L4	203	ARG	CZ-NH1	-6.61	1.23	1.32
9	L8	116	ARG	CZ-NH1	-6.61	1.23	1.32
32	LV	412	ARG	CZ-NH1	-6.61	1.23	1.32
39	Lc	222	ARG	CZ-NH1	-6.61	1.23	1.32
39	Lc	613	ARG	CZ-NH1	-6.61	1.23	1.32
45	Li	565	ARG	CZ-NH1	-6.61	1.23	1.32
52	Lp	627	ARG	CZ-NH1	-6.61	1.23	1.32
13	LC	291	ARG	CZ-NH1	-6.61	1.23	1.32
33	LW	471	ARG	CZ-NH1	-6.61	1.23	1.32
41	Le	628	ARG	CZ-NH1	-6.61	1.23	1.32
47	Lk	516	ARG	CZ-NH1	-6.61	1.23	1.32
56	Lt	223	ARG	CZ-NH1	-6.61	1.23	1.32
61	Ly	333	ARG	CZ-NH1	-6.61	1.23	1.32
61	Ly	587	ARG	CZ-NH1	-6.61	1.23	1.32
8	L7	32	GLY	N-CA	-6.61	1.38	1.45
8	L7	111	ARG	CZ-NH1	-6.61	1.23	1.32
21	LK	68	ARG	CZ-NH1	-6.61	1.23	1.32
24	LN	341	ARG	CZ-NH1	-6.61	1.23	1.32
29	LS	9	ARG	CZ-NH1	-6.61	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
37	La	78	ARG	CZ-NH1	-6.61	1.23	1.32
52	Lp	699	ARG	CZ-NH1	-6.61	1.23	1.32
61	Ly	543	ARG	CZ-NH1	-6.61	1.23	1.32
3	L2	72	ARG	CZ-NH1	-6.61	1.23	1.32
35	LY	265	ARG	CZ-NH1	-6.61	1.23	1.32
36	LZ	22	ARG	CZ-NH1	-6.61	1.23	1.32
51	Lo	82	ARG	CZ-NH1	-6.61	1.23	1.32
23	LM	48	ARG	CZ-NH1	-6.61	1.23	1.32
23	LM	123	ARG	CZ-NH1	-6.61	1.23	1.32
34	LX	109	ARG	CZ-NH1	-6.61	1.23	1.32
36	LZ	121	ARG	CZ-NH1	-6.61	1.23	1.32
37	La	38	ARG	CZ-NH1	-6.61	1.23	1.32
41	Le	626	ARG	CZ-NH1	-6.61	1.23	1.32
43	Lg	86	ARG	CZ-NH1	-6.61	1.23	1.32
56	Lt	218	ARG	CZ-NH1	-6.61	1.23	1.32
60	Lx	358	ARG	CZ-NH1	-6.61	1.23	1.32
64	UB	333	ARG	CZ-NH1	-6.61	1.23	1.32
5	L4	516	ARG	CZ-NH1	-6.61	1.23	1.32
20	LJ	275	ARG	CZ-NH1	-6.61	1.23	1.32
25	LO	142	ARG	CZ-NH1	-6.61	1.23	1.32
38	Lb	584	ARG	CZ-NH1	-6.61	1.23	1.32
45	Li	710	ARG	CZ-NH1	-6.61	1.23	1.32
52	Lp	709	ARG	CZ-NH1	-6.61	1.23	1.32
61	Ly	581	ARG	CZ-NH1	-6.61	1.23	1.32
33	LW	219	ARG	CZ-NH1	-6.60	1.23	1.32
45	Li	557	ARG	CZ-NH1	-6.60	1.23	1.32
46	Lj	26	ARG	CZ-NH1	-6.60	1.23	1.32
52	Lp	538	ARG	CZ-NH1	-6.60	1.23	1.32
53	Lq	647	ARG	CZ-NH1	-6.60	1.23	1.32
2	L1	505	ARG	CZ-NH1	-6.60	1.23	1.32
13	LC	567	ARG	CZ-NH1	-6.60	1.23	1.32
13	LC	575	ARG	CZ-NH1	-6.60	1.23	1.32
20	LJ	312	ARG	CZ-NH1	-6.60	1.23	1.32
20	LJ	418	ARG	CZ-NH1	-6.60	1.23	1.32
33	LW	333	ARG	CZ-NH1	-6.60	1.23	1.32
36	LZ	164	ARG	CZ-NH1	-6.60	1.23	1.32
44	Lh	402	ARG	CZ-NH1	-6.60	1.23	1.32
45	Li	275	ARG	CZ-NH1	-6.60	1.23	1.32
54	Lr	182	ARG	CZ-NH1	-6.60	1.23	1.32
62	Lz	142	ARG	CZ-NH1	-6.60	1.23	1.32
64	UB	328	ARG	CZ-NH1	-6.60	1.23	1.32
69	UG	257	ARG	CZ-NH1	-6.60	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	355	ARG	CZ-NH1	-6.60	1.23	1.32
51	Lo	302	ARG	CZ-NH1	-6.60	1.23	1.32
25	LO	136	ARG	CZ-NH1	-6.60	1.23	1.32
28	LR	25	ARG	CZ-NH1	-6.60	1.23	1.32
37	La	37	ARG	CZ-NH1	-6.60	1.23	1.32
38	Lb	305	ARG	CZ-NH1	-6.60	1.23	1.32
52	Lp	706	ARG	CZ-NH1	-6.60	1.23	1.32
1	L0	363	ARG	CZ-NH1	-6.60	1.23	1.32
28	LR	50	ARG	CZ-NH1	-6.60	1.23	1.32
38	Lb	753	ARG	CZ-NH1	-6.60	1.23	1.32
38	Lb	864	ARG	CZ-NH1	-6.60	1.23	1.32
43	Lg	161	ALA	CA-CB	-6.60	1.43	1.53
64	UB	316	ARG	CZ-NH1	-6.60	1.23	1.32
4	L3	424	ARG	CZ-NH1	-6.60	1.23	1.32
38	Lb	863	ARG	CZ-NH1	-6.60	1.23	1.32
11	LA	174	ARG	CZ-NH1	-6.59	1.23	1.32
14	LD	366	ARG	CZ-NH1	-6.59	1.23	1.32
32	LV	1062	ARG	CZ-NH1	-6.59	1.23	1.32
38	Lb	791	ARG	CZ-NH1	-6.59	1.23	1.32
39	Lc	255	ARG	CZ-NH1	-6.59	1.23	1.32
55	Ls	517	ARG	CZ-NH1	-6.59	1.23	1.32
27	LQ	396	ARG	CZ-NH1	-6.59	1.23	1.32
38	Lb	448	ARG	CZ-NH1	-6.59	1.23	1.32
66	UD	181	ARG	CZ-NH1	-6.59	1.23	1.32
41	Le	427	ARG	CZ-NH1	-6.59	1.23	1.32
61	Ly	652	ARG	CZ-NH1	-6.59	1.23	1.32
23	LM	6	ARG	CZ-NH1	-6.59	1.23	1.32
24	LN	279	ARG	CZ-NH1	-6.59	1.23	1.32
38	Lb	505	ARG	CZ-NH1	-6.59	1.23	1.32
40	Ld	519	ALA	CA-CB	-6.59	1.42	1.53
44	Lh	478	ARG	CZ-NH1	-6.59	1.23	1.32
46	Lj	5	ARG	CZ-NH1	-6.59	1.23	1.32
56	Lt	245	ARG	CZ-NH1	-6.59	1.23	1.32
9	L8	236	ARG	CZ-NH1	-6.59	1.23	1.32
27	LQ	403	ARG	CZ-NH1	-6.59	1.23	1.32
51	Lo	264	ARG	CZ-NH1	-6.59	1.23	1.32
55	Ls	383	GLY	N-CA	-6.59	1.37	1.45
69	UG	356	ARG	CZ-NH1	-6.59	1.23	1.32
38	Lb	656	ALA	CA-CB	-6.59	1.42	1.53
39	Lc	333	ARG	CZ-NH1	-6.59	1.23	1.32
53	Lq	229	ARG	CZ-NH1	-6.59	1.23	1.32
59	Lw	166	ARG	CZ-NH1	-6.59	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
49	Lm	427	ARG	CZ-NH1	-6.58	1.23	1.32
24	LN	256	ARG	CZ-NH1	-6.58	1.23	1.32
33	LW	439	ARG	CZ-NH1	-6.58	1.23	1.32
34	LX	125	ARG	CZ-NH1	-6.58	1.23	1.32
36	LZ	27	ARG	CZ-NH1	-6.58	1.23	1.32
39	Lc	247	ARG	CZ-NH1	-6.58	1.23	1.32
44	Lh	358	ARG	CZ-NH1	-6.58	1.23	1.32
48	Ll	33	ARG	CZ-NH1	-6.58	1.23	1.32
57	Lu	269	ARG	CZ-NH1	-6.58	1.23	1.32
30	LT	120	ARG	CZ-NH1	-6.58	1.23	1.32
32	LV	1063	ARG	CZ-NH1	-6.58	1.23	1.32
52	Lp	415	ARG	CZ-NH1	-6.58	1.23	1.32
55	Ls	359	ARG	CZ-NH1	-6.58	1.23	1.32
21	LK	117	ARG	CZ-NH1	-6.58	1.23	1.32
22	LL	535	ARG	CZ-NH1	-6.58	1.23	1.32
25	LO	133	ARG	CZ-NH1	-6.58	1.23	1.32
54	Lr	180	ARG	CZ-NH1	-6.58	1.23	1.32
14	LD	383	ALA	CA-CB	-6.58	1.42	1.53
15	LE	514	HIS	CD2-NE2	-6.58	1.30	1.37
26	LP	161	ALA	CA-CB	-6.58	1.42	1.53
38	Lb	638	ARG	CZ-NH1	-6.58	1.23	1.32
40	Ld	549	ARG	CZ-NH1	-6.58	1.23	1.32
52	Lp	454	ARG	CZ-NH1	-6.58	1.23	1.32
61	Ly	363	ARG	CZ-NH1	-6.58	1.23	1.32
35	LY	531	ARG	CZ-NH1	-6.58	1.23	1.32
4	L3	724	ARG	CZ-NH1	-6.58	1.23	1.32
29	LS	73	ARG	CZ-NH1	-6.58	1.23	1.32
43	Lg	97	ARG	CZ-NH1	-6.58	1.23	1.32
51	Lo	224	ARG	CZ-NH1	-6.58	1.23	1.32
61	Ly	464	ARG	CZ-NH1	-6.58	1.23	1.32
19	LI	20	ARG	CZ-NH1	-6.57	1.23	1.32
38	Lb	727	ARG	CZ-NH1	-6.57	1.23	1.32
52	Lp	652	ARG	CZ-NH1	-6.57	1.23	1.32
56	Lt	131	ARG	CZ-NH1	-6.57	1.23	1.32
64	UB	346	ARG	CZ-NH1	-6.57	1.23	1.32
28	LR	36	ARG	CZ-NH1	-6.57	1.23	1.32
37	La	147	ALA	CA-CB	-6.57	1.42	1.53
42	Lf	334	ARG	CZ-NH1	-6.57	1.23	1.32
18	LH	236	ARG	CZ-NH1	-6.57	1.23	1.32
20	LJ	245	ARG	CZ-NH1	-6.57	1.23	1.32
32	LV	613	ARG	CZ-NH1	-6.57	1.23	1.32
64	UB	326	ARG	CZ-NH1	-6.57	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	852	ARG	CZ-NH1	-6.57	1.23	1.32
39	Lc	207	ARG	CZ-NH1	-6.57	1.23	1.32
39	Lc	311	ARG	CZ-NH1	-6.57	1.23	1.32
41	Le	604	ARG	CZ-NH1	-6.57	1.23	1.32
64	UB	268	ARG	CZ-NH1	-6.57	1.23	1.32
1	L0	396	ARG	CZ-NH1	-6.57	1.23	1.32
8	L7	76	ARG	CZ-NH1	-6.57	1.23	1.32
21	LK	142	ARG	CZ-NH1	-6.57	1.23	1.32
34	LX	162	ARG	CZ-NH1	-6.57	1.23	1.32
13	LC	178	ARG	CZ-NH1	-6.56	1.23	1.32
26	LP	115	ARG	CZ-NH1	-6.56	1.23	1.32
48	Ll	138	ARG	CA-CB	-6.56	1.47	1.53
62	Lz	147	ARG	CZ-NH1	-6.56	1.23	1.32
40	Ld	411	ALA	CA-CB	-6.56	1.42	1.53
61	Ly	584	ARG	CZ-NH1	-6.56	1.23	1.32
15	LE	420	HIS	CD2-NE2	-6.56	1.30	1.37
38	Lb	312	ARG	CZ-NH1	-6.56	1.23	1.32
45	Li	363	ARG	CZ-NH1	-6.56	1.23	1.32
61	Ly	680	ARG	CZ-NH1	-6.56	1.23	1.32
9	L8	20	ARG	CZ-NH1	-6.56	1.23	1.32
14	LD	588	ALA	CA-CB	-6.56	1.42	1.53
39	Lc	148	ARG	CZ-NH1	-6.56	1.23	1.32
64	UB	345	ARG	CZ-NH1	-6.56	1.23	1.32
9	L8	89	ARG	CZ-NH1	-6.56	1.23	1.32
40	Ld	594	ARG	CZ-NH1	-6.55	1.23	1.32
5	L4	590	ARG	CZ-NH1	-6.55	1.23	1.32
9	L8	52	ARG	CZ-NH1	-6.55	1.23	1.32
20	LJ	420	ALA	CA-CB	-6.55	1.42	1.53
23	LM	42	ALA	CA-CB	-6.55	1.42	1.53
9	L8	139	ARG	CZ-NH1	-6.55	1.23	1.32
11	LA	148	ALA	CA-CB	-6.55	1.42	1.53
11	LA	38	ARG	CZ-NH1	-6.55	1.23	1.32
39	Lc	494	ARG	CZ-NH1	-6.55	1.23	1.32
47	Lk	546	ARG	CZ-NH1	-6.55	1.23	1.32
5	L4	587	ARG	CZ-NH1	-6.54	1.23	1.32
13	LC	607	ARG	CZ-NH1	-6.54	1.23	1.32
13	LC	156	ALA	CA-CB	-6.54	1.42	1.53
37	La	142	LYS	CA-CB	-6.54	1.47	1.53
14	LD	364	ARG	CZ-NH1	-6.54	1.23	1.32
25	LO	343	ARG	CZ-NH1	-6.54	1.23	1.32
61	Ly	290	ARG	CZ-NH1	-6.54	1.23	1.32
61	Ly	338	ARG	CZ-NH1	-6.54	1.23	1.32

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
15	LE	439	HIS	CD2-NE2	-6.54	1.30	1.37
3	L2	86	ALA	CA-CB	-6.54	1.42	1.53
22	LL	531	ARG	CZ-NH1	-6.54	1.23	1.32
25	LO	6	ALA	CA-CB	-6.54	1.42	1.53
20	LJ	220	ALA	CA-CB	-6.53	1.42	1.53
15	LE	452	HIS	CD2-NE2	-6.53	1.30	1.37
56	Lt	92	ALA	CA-CB	-6.53	1.43	1.53
21	LK	81	ALA	CA-CB	-6.53	1.43	1.53
1	L0	302	ALA	CA-CB	-6.53	1.42	1.53
56	Lt	119	ARG	CZ-NH1	-6.53	1.23	1.32
33	LW	418	ALA	CA-CB	-6.53	1.42	1.53
38	Lb	296	ARG	CZ-NH1	-6.53	1.23	1.32
10	L9	462	ARG	CZ-NH1	-6.52	1.23	1.32
29	LS	75	GLY	N-CA	-6.52	1.38	1.45
38	Lb	874	ALA	CA-CB	-6.52	1.42	1.53
61	Ly	541	GLY	N-CA	-6.52	1.38	1.45
15	LE	685	HIS	CD2-NE2	-6.52	1.30	1.37
41	Le	512	ALA	CA-CB	-6.52	1.42	1.53
67	UE	179	ALA	CA-CB	-6.52	1.42	1.53
9	L8	234	ARG	CZ-NH1	-6.52	1.23	1.32
13	LC	279	ALA	CA-CB	-6.51	1.42	1.53
44	Lh	436	ARG	CZ-NH1	-6.51	1.23	1.32
46	Lj	10	ARG	CZ-NH1	-6.51	1.23	1.32
52	Lp	660	ALA	CA-CB	-6.51	1.42	1.53
45	Li	604	PRO	CA-CB	-6.51	1.46	1.53
33	LW	461	ALA	CA-CB	-6.50	1.42	1.53
43	Lg	224	ALA	CA-CB	-6.50	1.42	1.53
64	UB	242	ALA	CA-CB	-6.50	1.42	1.53
12	LB	90	ALA	CA-CB	-6.50	1.42	1.53
25	LO	263	ALA	CA-CB	-6.50	1.43	1.53
52	Lp	711	ALA	CA-CB	-6.50	1.42	1.53
9	L8	167	ALA	CA-CB	-6.50	1.42	1.53
38	Lb	698	ALA	CA-CB	-6.49	1.42	1.53
44	Lh	547	ALA	CA-CB	-6.49	1.42	1.53
11	LA	152	ALA	CA-CB	-6.49	1.42	1.53
3	L2	14	GLY	N-CA	-6.48	1.37	1.45
9	L8	193	ALA	CA-CB	-6.48	1.42	1.53
11	LA	200	ALA	CA-CB	-6.48	1.42	1.53
25	LO	306	GLY	N-CA	-6.48	1.37	1.45
13	LC	347	ALA	CA-CB	-6.48	1.42	1.53
41	Le	637	ALA	CA-CB	-6.48	1.42	1.53
38	Lb	855	ALA	CA-CB	-6.47	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	Lc	221	ALA	CA-CB	-6.47	1.42	1.53
52	Lp	495	ALA	CA-CB	-6.47	1.42	1.53
26	LP	79	ALA	CA-CB	-6.47	1.42	1.53
26	LP	279	ALA	CA-CB	-6.47	1.42	1.53
32	LV	258	ALA	CA-CB	-6.47	1.42	1.53
54	Lr	235	ALA	CA-CB	-6.47	1.42	1.53
13	LC	176	ALA	CA-CB	-6.47	1.42	1.53
38	Lb	292	GLY	N-CA	-6.46	1.38	1.45
59	Lw	42	ARG	CZ-NH2	-6.46	1.25	1.33
33	LW	437	ALA	CA-CB	-6.46	1.42	1.53
45	Li	368	LEU	N-CA	-6.46	1.41	1.46
51	Lo	123	GLY	N-CA	-6.46	1.37	1.45
43	Lg	45	ALA	CA-CB	-6.46	1.42	1.53
18	LH	245	ALA	CA-CB	-6.45	1.42	1.53
23	LM	45	ALA	CA-CB	-6.45	1.42	1.53
44	Lh	551	ALA	CA-CB	-6.45	1.42	1.53
41	Le	538	ALA	CA-CB	-6.44	1.42	1.53
10	L9	342	HIS	CD2-NE2	-6.44	1.30	1.37
38	Lb	681	ALA	CA-CB	-6.44	1.42	1.53
38	Lb	717	ALA	CA-CB	-6.43	1.42	1.53
50	Ln	146	ALA	CA-CB	-6.43	1.42	1.53
1	L0	358	ALA	CA-CB	-6.43	1.42	1.53
61	Ly	560	ALA	CA-CB	-6.42	1.43	1.54
40	Ld	637	ARG	CZ-NH2	-6.42	1.25	1.33
20	LJ	106	GLY	N-CA	-6.41	1.38	1.45
48	Ll	27	GLY	N-CA	-6.41	1.38	1.45
4	L3	607	ALA	CA-CB	-6.40	1.42	1.53
40	Ld	348	ALA	CA-CB	-6.40	1.42	1.53
41	Le	589	GLY	N-CA	-6.40	1.38	1.45
29	LS	152	ALA	CA-CB	-6.39	1.42	1.53
45	Li	398	GLY	N-CA	-6.39	1.38	1.45
49	Lm	282	GLY	N-CA	-6.39	1.38	1.45
50	Ln	148	ALA	CA-CB	-6.39	1.42	1.53
61	Ly	353	ALA	CA-CB	-6.39	1.42	1.53
4	L3	547	HIS	CD2-NE2	-6.38	1.30	1.37
69	UG	272	ALA	CA-CB	-6.38	1.42	1.53
20	LJ	241	ALA	CA-CB	-6.38	1.42	1.53
11	LA	26	ALA	CA-CB	-6.38	1.42	1.53
51	Lo	292	ALA	CA-CB	-6.38	1.42	1.53
15	LE	372	ALA	CA-CB	-6.37	1.42	1.53
47	Lk	430	HIS	CD2-NE2	-6.37	1.30	1.37
9	L8	155	ALA	CA-CB	-6.36	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	Ly	556	ALA	CA-CB	-6.36	1.42	1.53
2	L1	461	GLY	N-CA	-6.34	1.38	1.45
60	Lx	348	ALA	CA-CB	-6.34	1.42	1.53
43	Lg	80	GLY	N-CA	-6.33	1.38	1.45
49	Lm	317	GLY	N-CA	-6.33	1.38	1.45
49	Lm	406	ALA	CA-CB	-6.33	1.43	1.53
22	LL	692	ARG	CZ-NH2	-6.33	1.25	1.33
9	L8	192	ALA	CA-CB	-6.32	1.42	1.53
37	La	111	ALA	CA-CB	-6.31	1.42	1.53
46	Lj	42	HIS	CD2-NE2	-6.31	1.30	1.37
38	Lb	480	GLY	N-CA	-6.31	1.38	1.45
38	Lb	752	GLY	N-CA	-6.31	1.38	1.45
22	LL	235	ALA	CA-CB	-6.29	1.42	1.53
10	L9	9	ALA	CA-CB	-6.28	1.42	1.53
20	LJ	60	GLY	N-CA	-6.28	1.38	1.45
32	LV	785	ARG	CZ-NH2	-6.28	1.25	1.33
38	Lb	416	GLY	N-CA	-6.28	1.38	1.45
32	LV	1065	ALA	CA-CB	-6.27	1.42	1.53
33	LW	261	ALA	CA-CB	-6.26	1.42	1.53
42	Lf	290	ALA	CA-CB	-6.26	1.42	1.53
32	LV	955	ARG	CZ-NH2	-6.25	1.25	1.33
10	L9	448	ALA	CA-CB	-6.24	1.42	1.53
31	LU	246	PRO	CA-CB	-6.24	1.46	1.53
33	LW	366	GLY	N-CA	-6.24	1.38	1.45
53	Lq	266	GLY	N-CA	-6.24	1.38	1.45
11	LA	79	GLY	N-CA	-6.24	1.38	1.45
43	Lg	47	ALA	CA-CB	-6.24	1.42	1.53
12	LB	104	GLY	N-CA	-6.24	1.37	1.45
38	Lb	777	ALA	CA-CB	-6.23	1.42	1.53
38	Lb	708	GLY	N-CA	-6.23	1.38	1.45
3	L2	127	GLY	N-CA	-6.23	1.37	1.45
25	LO	271	ALA	CA-CB	-6.22	1.43	1.53
48	Ll	97	GLY	N-CA	-6.21	1.38	1.45
32	LV	918	ARG	CZ-NH2	-6.21	1.25	1.33
51	Lo	244	GLY	N-CA	-6.21	1.38	1.45
76	l4	11	G	C2'-O2'	-6.21	1.32	1.41
43	Lg	22	GLY	N-CA	-6.20	1.35	1.45
55	Ls	421	ALA	CA-CB	-6.20	1.43	1.53
32	LV	782	ARG	CZ-NH2	-6.20	1.25	1.33
42	Lf	357	GLY	N-CA	-6.20	1.38	1.45
1	L0	255	GLY	N-CA	-6.19	1.37	1.45
29	LS	186	ALA	CA-CB	-6.19	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	Lw	114	HIS	N-CA	-6.19	1.41	1.46
32	LV	801	ARG	CZ-NH2	-6.18	1.25	1.33
32	LV	958	ARG	CZ-NH2	-6.18	1.25	1.33
9	L8	159	GLY	N-CA	-6.18	1.37	1.45
13	LC	280	GLY	N-CA	-6.17	1.36	1.44
36	LZ	2	GLY	N-CA	-6.17	1.35	1.45
55	Ls	393	ALA	CA-CB	-6.17	1.42	1.53
67	UE	152	ALA	CA-CB	-6.17	1.42	1.53
11	LA	20	GLY	N-CA	-6.17	1.38	1.45
32	LV	662	ARG	CZ-NH2	-6.17	1.25	1.33
40	Ld	507	ALA	CA-CB	-6.16	1.42	1.53
61	Ly	381	GLY	N-CA	-6.16	1.37	1.45
55	Ls	585	ALA	CA-CB	-6.16	1.42	1.53
64	UB	294	GLY	N-CA	-6.16	1.37	1.45
51	Lo	173	GLY	N-CA	-6.15	1.38	1.45
53	Lq	663	ALA	CA-CB	-6.15	1.42	1.53
37	La	158	ALA	CA-CB	-6.15	1.42	1.53
25	LO	206	GLY	N-CA	-6.15	1.37	1.45
38	Lb	490	GLY	N-CA	-6.15	1.37	1.45
36	LZ	119	ALA	CA-CB	-6.15	1.42	1.53
13	LC	530	GLY	N-CA	-6.14	1.37	1.45
27	LQ	365	GLY	N-CA	-6.14	1.38	1.45
62	Lz	184	ALA	CA-CB	-6.14	1.42	1.53
38	Lb	484	ALA	CA-CB	-6.13	1.42	1.53
48	Ll	83	GLY	N-CA	-6.13	1.37	1.45
38	Lb	670	GLY	N-CA	-6.13	1.38	1.45
38	Lb	463	ARG	N-CA	-6.13	1.42	1.46
52	Lp	483	ALA	CA-CB	-6.13	1.43	1.53
32	LV	798	ARG	CZ-NH2	-6.12	1.25	1.33
11	LA	80	GLY	N-CA	-6.12	1.38	1.45
32	LV	681	ARG	CZ-NH2	-6.11	1.25	1.33
39	Lc	637	ARG	CZ-NH1	-6.11	1.24	1.32
38	Lb	902	PRO	CA-CB	-6.11	1.46	1.53
55	Ls	358	ALA	CA-CB	-6.11	1.42	1.53
57	Lu	298	ALA	CA-CB	-6.11	1.42	1.53
42	Lf	165	GLY	N-CA	-6.11	1.35	1.45
53	Lq	558	GLY	N-CA	-6.11	1.38	1.45
38	Lb	391	GLY	N-CA	-6.11	1.38	1.45
13	LC	251	ALA	CA-CB	-6.10	1.43	1.53
52	Lp	655	GLY	N-CA	-6.10	1.38	1.45
33	LW	387	ALA	CA-CB	-6.10	1.42	1.53
53	Lq	529	GLY	N-CA	-6.09	1.38	1.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L4	247	GLY	N-CA	-6.09	1.38	1.45
8	L7	28	ALA	CA-CB	-6.09	1.43	1.53
4	L3	648	ALA	CA-CB	-6.08	1.42	1.53
13	LC	242	GLY	N-CA	-6.08	1.38	1.45
41	Le	419	GLY	N-CA	-6.08	1.38	1.45
53	Lq	562	GLY	N-CA	-6.08	1.38	1.45
20	LJ	101	GLY	N-CA	-6.08	1.38	1.45
56	Lt	135	ALA	CA-CB	-6.08	1.42	1.53
8	L7	10	GLY	N-CA	-6.07	1.35	1.45
54	Lr	18	GLY	N-CA	-6.07	1.38	1.45
20	LJ	2	GLY	N-CA	-6.07	1.35	1.45
51	Lo	171	GLY	N-CA	-6.07	1.38	1.45
41	Le	528	GLY	N-CA	-6.06	1.38	1.45
13	LC	278	GLY	N-CA	-6.06	1.38	1.45
12	LB	60	GLY	N-CA	-6.05	1.38	1.45
11	LA	112	ALA	CA-CB	-6.04	1.42	1.53
2	L1	424	GLY	N-CA	-6.03	1.35	1.45
21	LK	254	ALA	CA-CB	-6.03	1.42	1.53
44	Lh	345	ALA	CA-CB	-6.02	1.42	1.53
1	L0	570	GLY	N-CA	-6.02	1.38	1.45
22	LL	246	ALA	CA-CB	-6.02	1.43	1.53
5	L4	244	GLY	N-CA	-6.01	1.38	1.45
4	L3	436	ALA	CA-CB	-6.00	1.42	1.53
39	Lc	403	GLY	N-CA	-6.00	1.38	1.45
53	Lq	203	ALA	CA-CB	-5.99	1.42	1.53
53	Lq	475	GLY	N-CA	-5.99	1.38	1.45
23	LM	124	GLY	N-CA	-5.99	1.38	1.45
53	Lq	704	GLY	N-CA	-5.99	1.38	1.45
20	LJ	215	ALA	CA-CB	-5.99	1.43	1.53
9	L8	2	GLY	N-CA	-5.98	1.35	1.45
35	LY	356	GLY	N-CA	-5.98	1.39	1.46
1	L0	465	GLY	N-CA	-5.98	1.38	1.45
57	Lu	482	ALA	CA-CB	-5.98	1.42	1.52
32	LV	609	ALA	CA-CB	-5.97	1.42	1.53
36	LZ	80	ALA	CA-CB	-5.97	1.43	1.53
39	Lc	265	GLY	N-CA	-5.97	1.38	1.45
38	Lb	445	GLY	N-CA	-5.97	1.38	1.45
24	LN	306	GLY	N-CA	-5.96	1.37	1.45
23	LM	5	GLY	N-CA	-5.95	1.38	1.45
45	Li	399	ALA	CA-CB	-5.95	1.43	1.53
20	LJ	108	GLY	N-CA	-5.95	1.38	1.45
25	LO	259	ALA	CA-CB	-5.95	1.42	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	583	GLY	N-CA	-5.94	1.38	1.45
69	UG	333	ALA	CA-CB	-5.93	1.43	1.53
23	LM	135	ALA	CA-CB	-5.93	1.42	1.53
33	LW	395	ALA	CA-CB	-5.92	1.42	1.53
53	Lq	228	GLY	N-CA	-5.91	1.38	1.45
22	LL	295	ALA	CA-CB	-5.90	1.42	1.53
41	Le	451	ALA	CA-CB	-5.88	1.43	1.53
38	Lb	483	GLY	N-CA	-5.88	1.38	1.45
52	Lp	622	GLY	N-CA	-5.86	1.37	1.45
23	LM	131	GLY	N-CA	-5.84	1.38	1.45
10	L9	470	PRO	CA-CB	-5.83	1.46	1.53
4	L3	502	GLY	N-CA	-5.82	1.37	1.45
40	Ld	408	LEU	N-CA	-5.81	1.41	1.46
15	LE	374	GLY	N-CA	-5.79	1.37	1.45
36	LZ	34	TRP	N-CA	-5.79	1.42	1.46
33	LW	375	GLY	N-CA	-5.79	1.37	1.45
61	Ly	569	GLY	N-CA	-5.76	1.37	1.45
39	Lc	513	VAL	N-CA	-5.76	1.41	1.46
14	LD	379	GLY	N-CA	-5.75	1.37	1.45
60	Lx	324	GLY	N-CA	-5.74	1.37	1.45
25	LO	143	GLY	N-CA	-5.73	1.38	1.45
11	LA	181	GLY	N-CA	-5.72	1.37	1.45
24	LN	242	PRO	CA-CB	-5.72	1.46	1.53
39	Lc	258	ALA	CA-CB	-5.69	1.42	1.54
43	Lg	52	PRO	CA-CB	-5.66	1.46	1.54
47	Lk	546	ARG	CD-NE	-5.66	1.38	1.46
39	Lc	408	LEU	N-CA	-5.65	1.41	1.46
35	LY	501	GLY	N-CA	-5.65	1.37	1.45
55	Ls	374	GLY	N-CA	-5.65	1.37	1.45
20	LJ	263	HIS	CA-CB	-5.64	1.47	1.53
59	Lw	89	GLY	N-CA	-5.64	1.37	1.45
2	L1	456	PRO	CA-CB	-5.64	1.46	1.53
38	Lb	290	GLY	N-CA	-5.63	1.37	1.45
10	L9	453	ARG	CD-NE	-5.63	1.38	1.46
11	LA	104	GLY	N-CA	-5.63	1.37	1.45
53	Lq	868	HIS	CE1-NE2	-5.63	1.26	1.32
52	Lp	479	GLY	N-CA	-5.63	1.37	1.45
42	Lf	343	GLY	N-CA	-5.63	1.37	1.45
47	Lk	516	ARG	CD-NE	-5.62	1.38	1.46
25	LO	323	GLY	N-CA	-5.62	1.37	1.45
38	Lb	448	ARG	CD-NE	-5.62	1.38	1.46
38	Lb	305	ARG	CD-NE	-5.61	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	Lc	615	ARG	CD-NE	-5.61	1.38	1.46
55	Ls	375	ARG	CD-NE	-5.61	1.38	1.46
69	UG	398	ARG	CD-NE	-5.61	1.38	1.46
56	Lt	218	ARG	CD-NE	-5.61	1.38	1.46
20	LJ	286	ILE	N-CA	-5.60	1.42	1.46
39	Lc	310	ARG	CD-NE	-5.60	1.38	1.46
44	Lh	657	ARG	CD-NE	-5.59	1.38	1.46
45	Li	591	ARG	CD-NE	-5.59	1.38	1.46
40	Ld	333	ARG	CD-NE	-5.59	1.38	1.46
38	Lb	905	ARG	CD-NE	-5.59	1.38	1.46
20	LJ	24	ARG	CD-NE	-5.58	1.38	1.46
33	LW	325	ARG	CD-NE	-5.58	1.38	1.46
12	LB	65	PHE	N-CA	-5.58	1.41	1.46
2	L1	505	ARG	CD-NE	-5.57	1.38	1.46
26	LP	134	GLY	N-CA	-5.57	1.38	1.45
36	LZ	101	ARG	CD-NE	-5.57	1.38	1.46
45	Li	631	ARG	CD-NE	-5.57	1.38	1.46
33	LW	308	GLY	N-CA	-5.57	1.37	1.45
36	LZ	164	ARG	CD-NE	-5.57	1.38	1.46
6	L5	458	ARG	CD-NE	-5.56	1.38	1.46
12	LB	27	ARG	CD-NE	-5.56	1.38	1.46
21	LK	101	ARG	CD-NE	-5.56	1.38	1.46
37	La	62	GLY	N-CA	-5.56	1.37	1.45
38	Lb	463	ARG	CD-NE	-5.56	1.38	1.46
38	Lb	426	ILE	CA-CB	-5.56	1.51	1.54
56	Lt	119	ARG	CD-NE	-5.56	1.38	1.46
25	LO	110	ARG	CD-NE	-5.56	1.38	1.46
13	LC	554	ARG	CD-NE	-5.55	1.38	1.46
19	LI	31	GLY	N-CA	-5.55	1.38	1.45
24	LN	259	ARG	CD-NE	-5.55	1.38	1.46
46	Lj	14	ARG	CD-NE	-5.55	1.38	1.46
46	Lj	51	ARG	CD-NE	-5.55	1.38	1.46
11	LA	150	ASN	CA-CB	-5.55	1.47	1.53
39	Lc	255	ARG	CD-NE	-5.55	1.38	1.46
43	Lg	203	ARG	CD-NE	-5.55	1.38	1.46
53	Lq	679	ARG	CD-NE	-5.55	1.38	1.46
68	UF	16	ARG	CD-NE	-5.55	1.38	1.46
33	LW	286	ARG	CD-NE	-5.55	1.38	1.46
21	LK	242	ARG	CD-NE	-5.54	1.38	1.46
35	LY	265	ARG	CD-NE	-5.54	1.38	1.46
41	Le	554	ARG	CD-NE	-5.54	1.38	1.46
51	Lo	291	ARG	CD-NE	-5.54	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
34	LX	162	ARG	CD-NE	-5.54	1.38	1.46
61	Ly	637	ARG	CD-NE	-5.54	1.38	1.46
63	UA	239	ARG	CD-NE	-5.54	1.38	1.46
61	Ly	669	ARG	CD-NE	-5.54	1.38	1.46
45	Li	603	ARG	CD-NE	-5.54	1.38	1.46
55	Ls	338	ARG	CA-CB	-5.54	1.47	1.53
13	LC	167	ARG	CD-NE	-5.54	1.38	1.46
29	LS	16	ARG	CD-NE	-5.54	1.38	1.46
38	Lb	394	ARG	CD-NE	-5.54	1.38	1.46
55	Ls	395	ARG	CD-NE	-5.54	1.38	1.46
11	LA	38	ARG	CD-NE	-5.53	1.38	1.46
17	LG	237	ARG	CD-NE	-5.53	1.38	1.46
67	UE	125	ARG	CD-NE	-5.53	1.38	1.46
8	L7	47	ARG	CD-NE	-5.53	1.38	1.46
20	LJ	330	ARG	CD-NE	-5.53	1.38	1.46
31	LU	263	ARG	CD-NE	-5.53	1.38	1.46
39	Lc	536	GLY	N-CA	-5.53	1.38	1.45
56	Lt	71	ARG	CD-NE	-5.53	1.38	1.46
13	LC	133	ARG	CD-NE	-5.53	1.38	1.46
39	Lc	359	ARG	CD-NE	-5.53	1.38	1.46
52	Lp	496	ARG	CD-NE	-5.53	1.38	1.46
13	LC	121	ARG	CD-NE	-5.53	1.38	1.46
14	LD	585	ARG	CD-NE	-5.53	1.38	1.46
41	Le	510	ARG	CD-NE	-5.53	1.38	1.46
42	Lf	326	ARG	CD-NE	-5.53	1.38	1.46
62	Lz	236	ARG	CD-NE	-5.53	1.38	1.46
1	L0	589	ARG	CD-NE	-5.53	1.38	1.46
13	LC	169	ARG	CD-NE	-5.53	1.38	1.46
16	LF	156	ARG	CD-NE	-5.53	1.38	1.46
21	LK	169	ARG	CD-NE	-5.53	1.38	1.46
27	LQ	415	ARG	CD-NE	-5.53	1.38	1.46
23	LM	52	PRO	CA-CB	-5.52	1.47	1.53
39	Lc	311	ARG	CD-NE	-5.52	1.38	1.46
44	Lh	523	ARG	CD-NE	-5.52	1.38	1.46
48	Ll	135	ARG	CD-NE	-5.52	1.38	1.46
49	Lm	265	ARG	CD-NE	-5.52	1.38	1.46
51	Lo	315	ARG	CD-NE	-5.52	1.38	1.46
8	L7	111	ARG	CD-NE	-5.52	1.38	1.46
12	LB	76	ARG	CD-NE	-5.52	1.38	1.46
41	Le	609	ARG	CD-NE	-5.52	1.38	1.46
49	Lm	427	ARG	CD-NE	-5.52	1.38	1.46
53	Lq	688	ARG	CD-NE	-5.52	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	Lq	855	ARG	CD-NE	-5.52	1.38	1.46
61	Ly	584	ARG	CD-NE	-5.52	1.38	1.46
69	UG	257	ARG	CD-NE	-5.52	1.38	1.46
1	L0	343	ARG	CD-NE	-5.52	1.38	1.46
9	L8	20	ARG	CD-NE	-5.52	1.38	1.46
38	Lb	361	ARG	CD-NE	-5.52	1.38	1.46
40	Ld	432	ARG	CD-NE	-5.52	1.38	1.46
54	Lr	143	ARG	CD-NE	-5.52	1.38	1.46
38	Lb	723	ARG	CD-NE	-5.51	1.38	1.46
39	Lc	432	ARG	CD-NE	-5.51	1.38	1.46
52	Lp	415	ARG	CD-NE	-5.51	1.38	1.46
9	L8	236	ARG	CD-NE	-5.51	1.38	1.46
26	LP	165	ARG	CD-NE	-5.51	1.38	1.46
44	Lh	515	ARG	CD-NE	-5.51	1.38	1.46
46	Lj	30	ARG	CD-NE	-5.51	1.38	1.46
58	Lv	78	ARG	CD-NE	-5.51	1.38	1.46
51	Lo	189	ARG	CD-NE	-5.51	1.38	1.46
21	LK	264	ARG	CD-NE	-5.51	1.38	1.46
53	Lq	868	HIS	ND1-CE1	-5.51	1.27	1.32
12	LB	20	ARG	CD-NE	-5.51	1.38	1.46
20	LJ	275	ARG	CD-NE	-5.51	1.38	1.46
49	Lm	400	GLY	N-CA	-5.50	1.37	1.44
53	Lq	700	ARG	CD-NE	-5.50	1.38	1.46
6	L5	475	ARG	CD-NE	-5.50	1.38	1.46
27	LQ	398	ARG	CD-NE	-5.50	1.38	1.46
48	Ll	5	GLY	N-CA	-5.50	1.38	1.45
52	Lp	499	ARG	CD-NE	-5.50	1.38	1.46
61	Ly	657	GLY	N-CA	-5.50	1.38	1.45
1	L0	365	ARG	CD-NE	-5.50	1.38	1.46
3	L2	72	ARG	CD-NE	-5.50	1.38	1.46
22	LL	549	ARG	CD-NE	-5.50	1.38	1.46
24	LN	289	ARG	CD-NE	-5.50	1.38	1.46
40	Ld	317	ARG	CD-NE	-5.50	1.38	1.46
61	Ly	458	ARG	CD-NE	-5.50	1.38	1.46
20	LJ	368	ARG	CD-NE	-5.50	1.38	1.46
38	Lb	864	ARG	CD-NE	-5.50	1.38	1.46
53	Lq	556	ARG	CD-NE	-5.50	1.38	1.46
8	L7	51	ARG	CD-NE	-5.50	1.38	1.46
32	LV	659	GLY	N-CA	-5.50	1.38	1.45
32	LV	961	ARG	CD-NE	-5.50	1.38	1.46
32	LV	1062	ARG	CD-NE	-5.50	1.38	1.46
36	LZ	49	GLY	N-CA	-5.50	1.37	1.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	652	ARG	CD-NE	-5.50	1.38	1.46
39	Lc	353	ARG	CD-NE	-5.50	1.38	1.46
40	Ld	549	ARG	CD-NE	-5.50	1.38	1.46
54	Lr	180	ARG	CD-NE	-5.50	1.38	1.46
71	UI	393	ARG	CD-NE	-5.50	1.38	1.46
28	LR	14	ARG	CD-NE	-5.50	1.38	1.46
32	LV	479	ARG	CD-NE	-5.50	1.38	1.46
37	La	83	GLY	N-CA	-5.50	1.37	1.44
39	Lc	613	ARG	CD-NE	-5.50	1.38	1.46
44	Lh	712	ARG	CD-NE	-5.50	1.38	1.46
48	Ll	29	ARG	CD-NE	-5.50	1.38	1.46
49	Lm	412	ARG	CD-NE	-5.50	1.38	1.46
38	Lb	390	ARG	CD-NE	-5.50	1.38	1.46
1	L0	350	ASP	N-CA	-5.49	1.41	1.46
31	LU	239	ARG	CD-NE	-5.49	1.38	1.46
54	Lr	13	ARG	CD-NE	-5.49	1.38	1.46
10	L9	462	ARG	CD-NE	-5.49	1.38	1.46
28	LR	31	ARG	CD-NE	-5.49	1.38	1.46
41	Le	628	ARG	CD-NE	-5.49	1.38	1.46
53	Lq	652	ARG	CD-NE	-5.49	1.38	1.46
56	Lt	106	ARG	CD-NE	-5.49	1.38	1.46
4	L3	642	ARG	CD-NE	-5.49	1.38	1.46
5	L4	325	ARG	CD-NE	-5.49	1.38	1.46
6	L5	469	ARG	CD-NE	-5.49	1.38	1.46
35	LY	271	ARG	CD-NE	-5.49	1.38	1.46
53	Lq	107	ARG	CD-NE	-5.49	1.38	1.46
64	UB	267	ARG	CD-NE	-5.49	1.38	1.46
3	L2	128	ARG	CD-NE	-5.49	1.38	1.46
39	Lc	222	ARG	CD-NE	-5.49	1.38	1.46
14	LD	351	ARG	CD-NE	-5.49	1.38	1.46
35	LY	359	GLY	N-CA	-5.49	1.37	1.45
61	Ly	464	ARG	CD-NE	-5.49	1.38	1.46
61	Ly	581	ARG	CD-NE	-5.49	1.38	1.46
61	Ly	599	ARG	CD-NE	-5.49	1.38	1.46
1	L0	349	ARG	CD-NE	-5.48	1.38	1.46
1	L0	434	ARG	CD-NE	-5.48	1.38	1.46
11	LA	174	ARG	CD-NE	-5.48	1.38	1.46
12	LB	61	ARG	CD-NE	-5.48	1.38	1.46
69	UG	356	ARG	CD-NE	-5.48	1.38	1.46
21	LK	165	ARG	CD-NE	-5.48	1.38	1.46
51	Lo	214	ARG	CD-NE	-5.48	1.38	1.46
53	Lq	666	ARG	CD-NE	-5.48	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	LJ	9	ARG	CD-NE	-5.48	1.38	1.46
43	Lg	188	HIS	CA-CB	-5.48	1.47	1.53
63	UA	251	ARG	CD-NE	-5.48	1.38	1.46
23	LM	48	ARG	CD-NE	-5.48	1.38	1.46
43	Lg	232	PRO	CA-CB	-5.48	1.46	1.53
45	Li	565	ARG	CD-NE	-5.48	1.38	1.46
52	Lp	645	ARG	CD-NE	-5.48	1.38	1.46
45	Li	665	ARG	CD-NE	-5.48	1.38	1.46
19	LI	20	ARG	CD-NE	-5.47	1.38	1.46
52	Lp	698	ARG	CD-NE	-5.47	1.38	1.46
61	Ly	589	ARG	CD-NE	-5.47	1.38	1.46
12	LB	29	ARG	CD-NE	-5.47	1.38	1.46
11	LA	76	ARG	CD-NE	-5.47	1.38	1.46
29	LS	68	GLY	N-CA	-5.47	1.37	1.44
32	LV	592	GLY	N-CA	-5.47	1.39	1.45
38	Lb	852	ARG	CD-NE	-5.47	1.38	1.46
23	LM	123	ARG	CD-NE	-5.47	1.38	1.46
37	La	149	ARG	CD-NE	-5.47	1.38	1.46
61	Ly	535	GLY	N-CA	-5.47	1.38	1.45
69	UG	371	ARG	CD-NE	-5.47	1.38	1.46
23	LM	8	ARG	CD-NE	-5.46	1.38	1.46
49	Lm	438	ARG	CD-NE	-5.46	1.38	1.46
59	Lw	41	HIS	CE1-NE2	-5.46	1.27	1.32
64	UB	350	ARG	CD-NE	-5.46	1.38	1.46
53	Lq	474	ARG	CD-NE	-5.46	1.38	1.46
1	L0	457	ARG	CD-NE	-5.46	1.38	1.46
3	L2	188	ARG	CD-NE	-5.46	1.38	1.46
42	Lf	316	GLY	N-CA	-5.46	1.37	1.45
44	Lh	715	ARG	CD-NE	-5.46	1.38	1.46
25	LO	99	ARG	CD-NE	-5.46	1.38	1.46
43	Lg	82	ARG	CD-NE	-5.46	1.38	1.46
1	L0	337	GLY	N-CA	-5.46	1.38	1.44
28	LR	28	GLY	N-CA	-5.46	1.37	1.45
32	LV	412	ARG	CD-NE	-5.46	1.38	1.46
3	L2	71	ARG	CD-NE	-5.46	1.38	1.46
5	L4	516	ARG	CD-NE	-5.46	1.38	1.46
34	LX	99	TRP	CA-CB	-5.46	1.47	1.53
9	L8	157	ARG	CD-NE	-5.46	1.38	1.46
9	L8	145	ARG	CD-NE	-5.45	1.38	1.46
21	LK	117	ARG	CD-NE	-5.45	1.38	1.46
39	Lc	637	ARG	CD-NE	-5.45	1.38	1.46
4	L3	429	ARG	CD-NE	-5.45	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
11	LA	169	ARG	N-CA	-5.45	1.41	1.46
64	UB	345	ARG	CD-NE	-5.45	1.38	1.46
4	L3	660	ARG	CD-NE	-5.45	1.38	1.46
42	Lf	377	ALA	CA-CB	-5.45	1.42	1.54
69	UG	317	GLY	N-CA	-5.45	1.38	1.45
7	L6	237	ARG	CD-NE	-5.45	1.38	1.46
14	LD	529	ARG	CD-NE	-5.45	1.38	1.46
25	LO	165	ALA	CA-CB	-5.45	1.43	1.53
41	Le	518	ARG	CD-NE	-5.45	1.38	1.46
51	Lo	188	GLY	N-CA	-5.45	1.38	1.45
5	L4	590	ARG	CD-NE	-5.44	1.38	1.46
52	Lp	650	ARG	CD-NE	-5.44	1.38	1.46
52	Lp	557	ARG	CD-NE	-5.44	1.38	1.46
52	Lp	565	ARG	CD-NE	-5.44	1.38	1.46
27	LQ	364	ARG	CD-NE	-5.44	1.38	1.46
65	UC	293	ARG	CD-NE	-5.44	1.38	1.46
13	LC	292	ARG	CD-NE	-5.44	1.38	1.46
29	LS	17	ARG	CD-NE	-5.44	1.38	1.46
56	Lt	223	ARG	CD-NE	-5.44	1.38	1.46
57	Lu	256	ARG	CD-NE	-5.44	1.38	1.46
33	LW	217	ARG	CD-NE	-5.44	1.38	1.46
5	L4	277	ARG	CD-NE	-5.43	1.38	1.46
17	LG	232	ARG	CD-NE	-5.43	1.38	1.46
18	LH	232	ARG	CD-NE	-5.43	1.38	1.46
36	LZ	194	ARG	CD-NE	-5.43	1.38	1.46
54	Lr	16	GLY	N-CA	-5.43	1.37	1.45
28	LR	50	ARG	CD-NE	-5.43	1.38	1.46
45	Li	275	ARG	CD-NE	-5.43	1.38	1.46
24	LN	344	ARG	CD-NE	-5.43	1.38	1.46
35	LY	427	ARG	CD-NE	-5.43	1.38	1.46
39	Lc	298	GLU	CA-CB	-5.43	1.46	1.53
48	Ll	6	GLY	N-CA	-5.43	1.38	1.45
48	Ll	42	ARG	CD-NE	-5.43	1.38	1.46
14	LD	504	ARG	CD-NE	-5.43	1.38	1.46
62	Lz	203	ARG	CD-NE	-5.43	1.38	1.46
5	L4	269	ARG	CD-NE	-5.42	1.38	1.46
8	L7	69	ARG	CD-NE	-5.42	1.38	1.46
32	LV	319	GLY	N-CA	-5.42	1.38	1.45
59	Lw	156	ARG	CD-NE	-5.42	1.38	1.46
61	Ly	285	ARG	CD-NE	-5.42	1.38	1.46
64	UB	346	ARG	CD-NE	-5.42	1.38	1.46
30	LT	33	ARG	CD-NE	-5.42	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
33	LW	468	ARG	CD-NE	-5.42	1.38	1.46
41	Le	624	ARG	CD-NE	-5.42	1.38	1.46
44	Lh	456	GLY	N-CA	-5.42	1.37	1.45
47	Lk	503	GLY	N-CA	-5.42	1.37	1.45
48	Ll	43	ASN	CA-CB	-5.42	1.47	1.53
58	Lv	109	GLY	N-CA	-5.42	1.37	1.44
59	Lw	163	ARG	CD-NE	-5.42	1.38	1.46
33	LW	333	ARG	CD-NE	-5.42	1.38	1.46
55	Ls	517	ARG	CD-NE	-5.42	1.38	1.46
45	Li	396	GLY	N-CA	-5.42	1.38	1.45
62	Lz	143	GLY	N-CA	-5.42	1.38	1.45
14	LD	492	ARG	CD-NE	-5.42	1.38	1.46
55	Ls	334	ARG	CD-NE	-5.42	1.38	1.46
11	LA	87	ARG	CD-NE	-5.41	1.38	1.46
30	LT	81	ARG	CD-NE	-5.41	1.38	1.46
44	Lh	588	TYR	CA-CB	-5.41	1.47	1.53
9	L8	21	ARG	CD-NE	-5.41	1.38	1.46
38	Lb	863	ARG	CD-NE	-5.41	1.38	1.46
51	Lo	264	ARG	CD-NE	-5.41	1.38	1.46
1	L0	328	ARG	CD-NE	-5.41	1.38	1.46
8	L7	76	ARG	CD-NE	-5.41	1.38	1.46
9	L8	118	ARG	CD-NE	-5.41	1.38	1.46
38	Lb	638	ARG	CD-NE	-5.41	1.38	1.46
40	Ld	518	ARG	CD-NE	-5.41	1.38	1.46
16	LF	159	GLY	N-CA	-5.41	1.38	1.45
25	LO	142	ARG	CD-NE	-5.41	1.38	1.46
34	LX	111	ARG	CD-NE	-5.41	1.38	1.46
16	LF	129	ARG	CD-NE	-5.41	1.38	1.46
24	LN	319	ARG	CD-NE	-5.41	1.38	1.46
38	Lb	609	ARG	CD-NE	-5.41	1.38	1.46
52	Lp	648	ARG	CD-NE	-5.41	1.38	1.46
51	Lo	231	ARG	CD-NE	-5.40	1.38	1.46
42	Lf	187	GLN	CD-NE2	-5.40	1.22	1.33
56	Lt	245	ARG	CD-NE	-5.40	1.38	1.46
9	L8	23	PRO	CA-CB	-5.40	1.46	1.53
54	Lr	182	ARG	CD-NE	-5.40	1.38	1.46
9	L8	17	ARG	CD-NE	-5.40	1.38	1.46
35	LY	466	ARG	CD-NE	-5.39	1.38	1.46
41	Le	502	ARG	CD-NE	-5.39	1.38	1.46
12	LB	13	ARG	CD-NE	-5.39	1.38	1.46
37	La	160	ARG	CD-NE	-5.39	1.38	1.46
9	L8	139	ARG	CD-NE	-5.39	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
59	Lw	20	ARG	CD-NE	-5.39	1.38	1.46
64	UB	326	ARG	CD-NE	-5.39	1.38	1.46
68	UF	8	ARG	CD-NE	-5.39	1.38	1.46
1	L0	406	ARG	CD-NE	-5.39	1.38	1.46
49	Lm	291	ARG	CD-NE	-5.39	1.38	1.46
26	LP	104	ARG	CD-NE	-5.38	1.38	1.46
56	Lt	97	ARG	CD-NE	-5.38	1.38	1.46
64	UB	295	ARG	CD-NE	-5.38	1.38	1.46
21	LK	143	ARG	CD-NE	-5.38	1.38	1.46
41	Le	464	GLY	N-CA	-5.38	1.38	1.45
11	LA	150	ASN	N-CA	-5.38	1.41	1.46
63	UA	260	GLY	N-CA	-5.38	1.38	1.45
40	Ld	353	ARG	CD-NE	-5.38	1.38	1.46
25	LO	101	ARG	CD-NE	-5.38	1.38	1.46
50	Ln	149	ARG	CD-NE	-5.38	1.38	1.46
46	Lj	58	ARG	CD-NE	-5.38	1.38	1.46
19	LI	21	GLY	N-CA	-5.38	1.37	1.44
45	Li	557	ARG	CD-NE	-5.37	1.38	1.46
52	Lp	454	ARG	CD-NE	-5.37	1.38	1.46
59	Lw	41	HIS	ND1-CE1	-5.37	1.27	1.32
39	Lc	254	ARG	CD-NE	-5.37	1.38	1.46
42	Lf	169	GLY	N-CA	-5.37	1.37	1.45
55	Ls	373	ARG	CD-NE	-5.37	1.38	1.46
22	LL	196	GLY	N-CA	-5.37	1.37	1.45
32	LV	1074	ARG	CD-NE	-5.37	1.38	1.46
53	Lq	850	ARG	CD-NE	-5.37	1.38	1.46
38	Lb	908	ARG	CZ-NH2	-5.36	1.26	1.33
43	Lg	134	ARG	CD-NE	-5.36	1.38	1.46
45	Li	662	ARG	CD-NE	-5.36	1.38	1.46
1	L0	390	ARG	CD-NE	-5.36	1.38	1.46
25	LO	295	GLY	N-CA	-5.36	1.38	1.45
71	UI	391	ARG	CD-NE	-5.36	1.38	1.46
11	LA	137	GLY	N-CA	-5.35	1.37	1.44
64	UB	333	ARG	CD-NE	-5.35	1.38	1.46
22	LL	335	SER	C-N	-5.35	1.29	1.33
37	La	44	VAL	N-CA	-5.35	1.42	1.46
38	Lb	314	ARG	CD-NE	-5.35	1.38	1.46
63	UA	245	ARG	CD-NE	-5.35	1.38	1.46
8	L7	71	ARG	CD-NE	-5.35	1.38	1.46
51	Lo	114	ARG	CD-NE	-5.35	1.38	1.46
15	LE	661	ARG	CZ-NH2	-5.35	1.26	1.33
40	Ld	562	ALA	CA-CB	-5.35	1.45	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
14	LD	366	ARG	CD-NE	-5.34	1.38	1.46
15	LE	660	ARG	CZ-NH2	-5.34	1.26	1.33
66	UD	169	ARG	CD-NE	-5.34	1.38	1.46
18	LH	199	GLY	N-CA	-5.34	1.38	1.45
23	LM	109	ARG	CD-NE	-5.34	1.38	1.46
46	Lj	66	ARG	CD-NE	-5.34	1.38	1.46
12	LB	65	PHE	CA-CB	-5.34	1.47	1.53
38	Lb	288	ARG	CD-NE	-5.34	1.38	1.46
36	LZ	121	ARG	CD-NE	-5.34	1.38	1.46
53	Lq	158	LEU	N-CA	-5.33	1.41	1.46
38	Lb	899	ARG	CD-NE	-5.33	1.38	1.46
33	LW	219	ARG	CD-NE	-5.33	1.38	1.46
51	Lo	302	ARG	CD-NE	-5.33	1.38	1.46
41	Le	629	ARG	CD-NE	-5.33	1.38	1.46
41	Le	626	ARG	CD-NE	-5.33	1.38	1.46
37	La	77	ARG	CD-NE	-5.33	1.38	1.46
69	UG	375	ARG	CD-NE	-5.33	1.38	1.46
39	Lc	530	ALA	CA-CB	-5.33	1.45	1.53
9	L8	89	ARG	CD-NE	-5.32	1.38	1.46
55	Ls	345	ARG	CD-NE	-5.32	1.38	1.46
11	LA	42	ARG	CZ-NH2	-5.32	1.26	1.33
39	Lc	148	ARG	CD-NE	-5.32	1.38	1.46
51	Lo	265	ARG	CD-NE	-5.32	1.38	1.46
21	LK	68	ARG	CD-NE	-5.32	1.38	1.46
25	LO	116	ARG	CD-NE	-5.32	1.38	1.46
55	Ls	588	ARG	CD-NE	-5.32	1.38	1.46
15	LE	403	ARG	CZ-NH2	-5.32	1.26	1.33
33	LW	379	ARG	CD-NE	-5.32	1.38	1.46
38	Lb	775	ARG	CD-NE	-5.31	1.38	1.46
51	Lo	151	ARG	CD-NE	-5.31	1.38	1.46
15	LE	413	ARG	CZ-NH2	-5.31	1.26	1.33
32	LV	513	ALA	CA-CB	-5.31	1.42	1.54
38	Lb	404	ARG	CD-NE	-5.31	1.38	1.46
52	Lp	636	ARG	CD-NE	-5.31	1.38	1.46
55	Ls	362	ARG	CD-NE	-5.31	1.38	1.46
15	LE	521	ARG	CZ-NH2	-5.31	1.26	1.33
28	LR	22	ARG	CD-NE	-5.31	1.38	1.46
38	Lb	678	PRO	CA-CB	-5.31	1.47	1.53
39	Lc	427	ARG	N-CA	-5.31	1.41	1.46
52	Lp	652	ARG	CD-NE	-5.31	1.38	1.46
57	Lu	269	ARG	CD-NE	-5.31	1.38	1.46
53	Lq	523	ARG	CD-NE	-5.30	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
24	LN	274	ARG	CD-NE	-5.30	1.38	1.46
48	Ll	138	ARG	CD-NE	-5.30	1.38	1.46
61	Ly	459	HIS	CA-CB	-5.30	1.47	1.53
42	Lf	334	ARG	CD-NE	-5.30	1.38	1.46
15	LE	450	ARG	CZ-NH2	-5.30	1.26	1.33
22	LL	298	ARG	CD-NE	-5.30	1.38	1.46
39	Lc	452	ARG	CD-NE	-5.30	1.38	1.46
60	Lx	368	ARG	CD-NE	-5.30	1.38	1.46
14	LD	345	ALA	CA-CB	-5.30	1.43	1.54
15	LE	683	ARG	CZ-NH2	-5.30	1.26	1.33
34	LX	109	ARG	CD-NE	-5.30	1.38	1.46
35	LY	355	ARG	CD-NE	-5.30	1.38	1.46
37	La	92	ARG	CD-NE	-5.30	1.38	1.46
40	Ld	403	GLY	N-CA	-5.30	1.38	1.45
41	Le	427	ARG	CD-NE	-5.30	1.38	1.46
61	Ly	596	ARG	CD-NE	-5.30	1.38	1.46
13	LC	246	ARG	CD-NE	-5.29	1.38	1.46
30	LT	46	ARG	CD-NE	-5.29	1.38	1.46
39	Lc	526	ARG	CZ-NH1	-5.29	1.25	1.32
1	L0	307	GLY	N-CA	-5.29	1.37	1.44
11	LA	149	ARG	CD-NE	-5.29	1.38	1.46
16	LF	188	ARG	CD-NE	-5.29	1.38	1.46
20	LJ	31	ARG	CD-NE	-5.29	1.38	1.46
25	LO	256	ARG	CD-NE	-5.29	1.38	1.46
25	LO	343	ARG	CD-NE	-5.29	1.38	1.46
32	LV	965	GLY	N-CA	-5.29	1.37	1.45
39	Lc	524	ALA	CA-CB	-5.29	1.45	1.53
44	Lh	402	ARG	CD-NE	-5.29	1.38	1.46
22	LL	342	ARG	CD-NE	-5.29	1.38	1.46
13	LC	117	GLY	N-CA	-5.29	1.37	1.45
1	L0	363	ARG	CD-NE	-5.29	1.38	1.46
39	Lc	518	ARG	CZ-NH1	-5.29	1.25	1.32
43	Lg	123	ARG	CD-NE	-5.29	1.38	1.46
52	Lp	706	ARG	CD-NE	-5.29	1.38	1.46
61	Ly	543	ARG	CD-NE	-5.29	1.38	1.46
64	UB	316	ARG	CD-NE	-5.29	1.38	1.46
3	L2	192	ARG	CD-NE	-5.29	1.38	1.46
8	L7	13	ARG	CD-NE	-5.29	1.38	1.46
44	Lh	328	GLY	N-CA	-5.29	1.38	1.45
47	Lk	511	GLY	N-CA	-5.29	1.37	1.45
51	Lo	182	ARG	CD-NE	-5.29	1.38	1.46
25	LO	144	ARG	CD-NE	-5.29	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	Lc	531	ARG	CD-NE	-5.29	1.38	1.46
43	Lg	140	ARG	CD-NE	-5.29	1.38	1.46
44	Lh	408	ARG	CD-NE	-5.29	1.38	1.46
45	Li	592	GLY	N-CA	-5.29	1.37	1.44
55	Ls	338	ARG	CD-NE	-5.29	1.38	1.46
20	LJ	260	ARG	CD-NE	-5.28	1.38	1.46
33	LW	462	ARG	CD-NE	-5.28	1.38	1.46
36	LZ	50	ARG	CD-NE	-5.28	1.38	1.46
39	Lc	207	ARG	CD-NE	-5.28	1.38	1.46
54	Lr	61	ARG	CD-NE	-5.28	1.38	1.46
58	Lv	74	ARG	CD-NE	-5.28	1.38	1.46
20	LJ	170	ARG	CD-NE	-5.28	1.38	1.46
39	Lc	594	ARG	CZ-NH1	-5.28	1.25	1.32
44	Lh	414	ARG	CD-NE	-5.28	1.38	1.46
55	Ls	350	ARG	CD-NE	-5.28	1.38	1.46
56	Lt	244	ARG	CD-NE	-5.28	1.38	1.46
2	L1	499	ARG	CD-NE	-5.28	1.38	1.46
4	L3	424	ARG	CD-NE	-5.28	1.38	1.46
20	LJ	435	ARG	CZ-NH2	-5.28	1.26	1.33
23	LM	134	ARG	CD-NE	-5.28	1.38	1.46
24	LN	256	ARG	CD-NE	-5.28	1.38	1.46
52	Lp	475	GLY	N-CA	-5.28	1.37	1.45
61	Ly	587	ARG	CD-NE	-5.28	1.38	1.46
68	UF	33	ARG	CD-NE	-5.28	1.38	1.46
61	Ly	515	GLY	N-CA	-5.28	1.37	1.45
64	UB	339	ARG	CD-NE	-5.28	1.38	1.46
20	LJ	119	ARG	CD-NE	-5.28	1.38	1.46
44	Lh	436	ARG	CD-NE	-5.28	1.38	1.46
52	Lp	720	ARG	CD-NE	-5.28	1.38	1.46
20	LJ	7	ARG	CD-NE	-5.28	1.38	1.46
35	LY	305	VAL	N-CA	-5.28	1.42	1.46
40	Ld	613	ARG	CD-NE	-5.28	1.38	1.46
20	LJ	5	ARG	CD-NE	-5.27	1.38	1.46
28	LR	51	ARG	CD-NE	-5.27	1.38	1.46
39	Lc	142	ARG	CD-NE	-5.27	1.38	1.46
60	Lx	339	ARG	CD-NE	-5.27	1.38	1.46
37	La	79	ARG	CD-NE	-5.27	1.38	1.46
52	Lp	689	ARG	CD-NE	-5.27	1.38	1.46
68	UF	64	ARG	CD-NE	-5.27	1.38	1.46
46	Lj	26	ARG	CD-NE	-5.27	1.38	1.46
3	L2	45	ARG	CD-NE	-5.27	1.38	1.46
4	L3	724	ARG	CD-NE	-5.27	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L4	203	ARG	CD-NE	-5.27	1.38	1.46
10	L9	17	ARG	CD-NE	-5.27	1.38	1.46
20	LJ	410	ARG	CD-NE	-5.27	1.38	1.46
39	Lc	490	ARG	CD-NE	-5.27	1.38	1.46
47	Lk	449	ALA	CA-CB	-5.27	1.43	1.53
53	Lq	676	GLY	N-CA	-5.27	1.38	1.45
67	UE	185	ARG	CD-NE	-5.27	1.38	1.46
37	La	30	ARG	CD-NE	-5.27	1.38	1.46
51	Lo	120	ARG	CD-NE	-5.27	1.38	1.46
64	UB	328	ARG	CD-NE	-5.27	1.38	1.46
64	UB	366	ARG	CD-NE	-5.27	1.38	1.46
15	LE	383	ARG	CD-NE	-5.27	1.38	1.46
17	LG	236	ARG	CD-NE	-5.27	1.38	1.46
35	LY	333	ARG	CD-NE	-5.27	1.38	1.46
41	Le	515	ARG	CD-NE	-5.27	1.38	1.46
48	Ll	38	ARG	CD-NE	-5.27	1.38	1.46
55	Ls	359	ARG	CD-NE	-5.27	1.38	1.46
20	LJ	292	ARG	CD-NE	-5.26	1.38	1.46
21	LK	234	ARG	CD-NE	-5.26	1.38	1.46
35	LY	260	ARG	CD-NE	-5.26	1.38	1.46
35	LY	506	ARG	CD-NE	-5.26	1.38	1.46
41	Le	489	ARG	CD-NE	-5.26	1.38	1.46
55	Ls	413	ARG	CD-NE	-5.26	1.38	1.46
25	LO	136	ARG	CD-NE	-5.26	1.38	1.46
32	LV	953	GLY	N-CA	-5.26	1.39	1.45
39	Lc	490	ARG	CZ-NH1	-5.26	1.25	1.32
13	LC	607	ARG	CD-NE	-5.26	1.38	1.46
25	LO	134	ARG	CD-NE	-5.26	1.38	1.46
27	LQ	357	ARG	CD-NE	-5.26	1.38	1.46
38	Lb	746	ARG	CD-NE	-5.26	1.38	1.46
45	Li	314	ARG	CA-CB	-5.26	1.47	1.53
49	Lm	418	ARG	CD-NE	-5.26	1.38	1.46
54	Lr	255	ARG	CD-NE	-5.26	1.38	1.46
9	L8	116	ARG	CD-NE	-5.26	1.38	1.46
27	LQ	351	ARG	CD-NE	-5.26	1.38	1.46
28	LR	71	ARG	CD-NE	-5.26	1.38	1.46
20	LJ	22	ARG	CD-NE	-5.26	1.38	1.46
36	LZ	106	ARG	CD-NE	-5.26	1.38	1.46
38	Lb	505	ARG	CD-NE	-5.26	1.38	1.46
44	Lh	569	ARG	CD-NE	-5.26	1.38	1.46
44	Lh	637	ARG	CD-NE	-5.26	1.38	1.46
27	LQ	359	ARG	CD-NE	-5.25	1.38	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
39	Lc	333	ARG	CD-NE	-5.25	1.38	1.46
61	Ly	384	ARG	CD-NE	-5.25	1.38	1.46
64	UB	268	ARG	CD-NE	-5.25	1.38	1.46
67	UE	144	ARG	CD-NE	-5.25	1.38	1.46
4	L3	505	ARG	CD-NE	-5.25	1.38	1.46
9	L8	13	GLY	N-CA	-5.25	1.38	1.45
20	LJ	113	ARG	CD-NE	-5.25	1.38	1.46
22	LL	945	ARG	CD-NE	-5.25	1.38	1.46
27	LQ	416	SER	N-CA	-5.25	1.41	1.46
31	LU	234	PRO	CA-CB	-5.25	1.46	1.54
60	Lx	358	ARG	CD-NE	-5.25	1.38	1.46
1	L0	334	GLY	N-CA	-5.25	1.38	1.45
9	L8	234	ARG	CD-NE	-5.25	1.38	1.46
10	L9	456	ARG	CD-NE	-5.25	1.38	1.46
20	LJ	213	ARG	CD-NE	-5.25	1.38	1.46
39	Lc	501	ALA	CA-CB	-5.25	1.45	1.53
44	Lh	358	ARG	CD-NE	-5.25	1.38	1.46
52	Lp	503	ARG	CD-NE	-5.25	1.38	1.46
61	Ly	333	ARG	CD-NE	-5.25	1.38	1.46
27	LQ	381	ARG	CD-NE	-5.25	1.38	1.46
52	Lp	517	ARG	CD-NE	-5.25	1.39	1.46
4	L3	570	ARG	CD-NE	-5.25	1.39	1.46
13	LC	575	ARG	CD-NE	-5.25	1.39	1.46
15	LE	371	ARG	CD-NE	-5.25	1.39	1.46
15	LE	536	ARG	CZ-NH2	-5.25	1.26	1.33
15	LE	618	ARG	CZ-NH2	-5.25	1.26	1.33
30	LT	12	ARG	CD-NE	-5.25	1.39	1.46
38	Lb	502	ARG	CD-NE	-5.25	1.39	1.46
38	Lb	685	ARG	CD-NE	-5.25	1.39	1.46
55	Ls	372	ARG	CD-NE	-5.25	1.39	1.46
62	Lz	147	ARG	CD-NE	-5.25	1.39	1.46
17	LG	214	ARG	CD-NE	-5.25	1.39	1.46
28	LR	36	ARG	CD-NE	-5.25	1.39	1.46
43	Lg	86	ARG	CD-NE	-5.25	1.39	1.46
44	Lh	332	ARG	CD-NE	-5.25	1.39	1.46
52	Lp	538	ARG	CD-NE	-5.25	1.39	1.46
52	Lp	583	ARG	CD-NE	-5.25	1.39	1.46
54	Lr	269	ARG	CD-NE	-5.25	1.39	1.46
57	Lu	281	GLY	N-CA	-5.25	1.37	1.45
5	L4	586	ARG	CD-NE	-5.25	1.39	1.46
43	Lg	234	ARG	CD-NE	-5.25	1.39	1.46
52	Lp	512	ARG	CD-NE	-5.25	1.39	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
61	Ly	383	ARG	CD-NE	-5.25	1.39	1.46
5	L4	355	ARG	CD-NE	-5.24	1.39	1.46
17	LG	235	ARG	CD-NE	-5.24	1.39	1.46
25	LO	266	GLY	N-CA	-5.24	1.37	1.44
25	LO	337	PRO	CA-CB	-5.24	1.46	1.53
33	LW	210	ARG	CD-NE	-5.24	1.39	1.46
46	Lj	10	ARG	CD-NE	-5.24	1.39	1.46
26	LP	282	GLY	N-CA	-5.24	1.37	1.45
39	Lc	531	ARG	CZ-NH1	-5.24	1.25	1.32
25	LO	121	ARG	CD-NE	-5.24	1.39	1.46
29	LS	144	ARG	CD-NE	-5.24	1.39	1.46
38	Lb	284	ARG	CD-NE	-5.24	1.39	1.46
39	Lc	317	ARG	CD-NE	-5.24	1.39	1.46
39	Lc	593	ALA	CA-CB	-5.24	1.45	1.53
48	Ll	136	ARG	CD-NE	-5.24	1.39	1.46
3	L2	41	ARG	CD-NE	-5.24	1.39	1.46
8	L7	70	ARG	CD-NE	-5.24	1.39	1.46
13	LC	295	GLY	N-CA	-5.24	1.37	1.45
22	LL	535	ARG	CD-NE	-5.24	1.39	1.46
27	LQ	396	ARG	CD-NE	-5.24	1.39	1.46
38	Lb	386	ARG	CD-NE	-5.24	1.39	1.46
45	Li	672	ARG	CD-NE	-5.24	1.39	1.46
61	Ly	290	ARG	CD-NE	-5.24	1.39	1.46
61	Ly	586	ARG	CD-NE	-5.24	1.39	1.46
32	LV	474	ARG	CD-NE	-5.24	1.39	1.46
35	LY	249	ARG	CD-NE	-5.24	1.39	1.46
52	Lp	699	ARG	CD-NE	-5.24	1.39	1.46
20	LJ	245	ARG	CD-NE	-5.24	1.39	1.46
32	LV	407	ARG	CD-NE	-5.24	1.39	1.46
44	Lh	478	ARG	CD-NE	-5.24	1.39	1.46
45	Li	673	ARG	CD-NE	-5.24	1.39	1.46
46	Lj	5	ARG	CD-NE	-5.24	1.39	1.46
17	LG	206	ARG	CD-NE	-5.23	1.39	1.46
25	LO	125	ARG	CD-NE	-5.23	1.39	1.46
30	LT	15	ARG	CD-NE	-5.23	1.39	1.46
45	Li	125	ARG	CD-NE	-5.23	1.39	1.46
54	Lr	265	ARG	CD-NE	-5.23	1.39	1.46
24	LN	328	ARG	CD-NE	-5.23	1.39	1.46
25	LO	9	ARG	CD-NE	-5.23	1.39	1.46
32	LV	1080	ARG	CD-NE	-5.23	1.39	1.46
40	Ld	471	ASN	CA-CB	-5.23	1.47	1.53
40	Ld	490	ARG	CD-NE	-5.23	1.39	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
53	Lq	229	ARG	CD-NE	-5.23	1.39	1.46
55	Ls	344	ARG	CD-NE	-5.23	1.39	1.46
1	L0	568	ARG	CD-NE	-5.23	1.39	1.46
11	LA	169	ARG	CD-NE	-5.23	1.39	1.46
20	LJ	227	ASP	CA-CB	-5.23	1.47	1.53
20	LJ	291	ARG	CD-NE	-5.23	1.39	1.46
32	LV	613	ARG	CD-NE	-5.23	1.39	1.46
37	La	85	ARG	CD-NE	-5.23	1.39	1.46
39	Lc	204	ARG	CD-NE	-5.23	1.39	1.46
46	Lj	114	ARG	CD-NE	-5.23	1.39	1.46
48	Ll	68	ARG	CD-NE	-5.23	1.39	1.46
48	Ll	113	ARG	CD-NE	-5.23	1.39	1.46
61	Ly	300	ARG	CD-NE	-5.23	1.39	1.46
64	UB	304	ARG	CD-NE	-5.23	1.39	1.46
66	UD	181	ARG	CD-NE	-5.23	1.39	1.46
21	LK	218	ARG	CZ-NH1	-5.23	1.25	1.32
41	Le	550	ARG	CD-NE	-5.23	1.39	1.46
53	Lq	647	ARG	CD-NE	-5.23	1.39	1.46
55	Ls	371	ARG	CD-NE	-5.23	1.39	1.46
61	Ly	652	ARG	CD-NE	-5.23	1.39	1.46
14	LD	543	ARG	CD-NE	-5.23	1.39	1.46
20	LJ	421	ARG	CD-NE	-5.23	1.39	1.46
35	LY	229	GLY	N-CA	-5.23	1.37	1.45
40	Ld	310	ARG	CD-NE	-5.23	1.39	1.46
54	Lr	17	ARG	CD-NE	-5.23	1.39	1.46
25	LO	109	ARG	CD-NE	-5.23	1.39	1.46
29	LS	3	ARG	CD-NE	-5.23	1.39	1.46
1	L0	373	ARG	CD-NE	-5.22	1.39	1.46
3	L2	81	ARG	CD-NE	-5.22	1.39	1.46
10	L9	459	ARG	CD-NE	-5.22	1.39	1.46
13	LC	291	ARG	CD-NE	-5.22	1.39	1.46
20	LJ	331	ARG	CD-NE	-5.22	1.39	1.46
34	LX	125	ARG	CD-NE	-5.22	1.39	1.46
36	LZ	22	ARG	CD-NE	-5.22	1.39	1.46
45	Li	314	ARG	CD-NE	-5.22	1.39	1.46
51	Lo	333	ARG	CD-NE	-5.22	1.39	1.46
69	UG	263	ARG	CD-NE	-5.22	1.39	1.46
20	LJ	418	ARG	CD-NE	-5.22	1.39	1.46
38	Lb	494	ARG	CD-NE	-5.22	1.39	1.46
45	Li	710	ARG	CD-NE	-5.22	1.39	1.46
48	Ll	4	ARG	CD-NE	-5.22	1.39	1.46
53	Lq	120	ARG	CD-NE	-5.22	1.39	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
96	lO	99	A	C6-N6	-5.22	1.23	1.33
38	Lb	842	ARG	CD-NE	-5.22	1.39	1.46
40	Ld	612	ARG	CD-NE	-5.22	1.39	1.46
45	Li	523	ARG	CD-NE	-5.22	1.39	1.46
54	Lr	79	ARG	CD-NE	-5.22	1.39	1.46
1	L0	331	ARG	CD-NE	-5.22	1.39	1.46
4	L3	734	ARG	CD-NE	-5.22	1.39	1.46
33	LW	439	ARG	CD-NE	-5.22	1.39	1.46
36	LZ	68	GLY	N-CA	-5.22	1.37	1.44
40	Ld	510	ARG	CD-NE	-5.22	1.39	1.46
52	Lp	623	ARG	CD-NE	-5.22	1.39	1.46
55	Ls	402	ARG	CD-NE	-5.22	1.39	1.46
61	Ly	680	ARG	CD-NE	-5.22	1.39	1.46
4	L3	726	GLY	N-CA	-5.22	1.37	1.45
7	L6	242	ARG	CD-NE	-5.22	1.39	1.46
25	LO	127	ARG	CD-NE	-5.22	1.39	1.46
49	Lm	349	ARG	CD-NE	-5.22	1.39	1.46
52	Lp	621	ARG	CD-NE	-5.22	1.39	1.46
6	L5	468	ARG	CD-NE	-5.22	1.39	1.46
13	LC	363	ARG	CD-NE	-5.22	1.39	1.46
13	LC	476	ARG	CD-NE	-5.22	1.39	1.46
14	LD	364	ARG	CD-NE	-5.22	1.39	1.46
22	LL	273	GLY	N-CA	-5.22	1.37	1.44
30	LT	120	ARG	CD-NE	-5.22	1.39	1.46
33	LW	474	PRO	CA-CB	-5.22	1.46	1.53
34	LX	101	PRO	CA-CB	-5.22	1.47	1.53
34	LX	176	ARG	CD-NE	-5.22	1.39	1.46
38	Lb	296	ARG	CD-NE	-5.22	1.39	1.46
46	Lj	74	ARG	CD-NE	-5.22	1.39	1.46
55	Ls	367	ARG	CD-NE	-5.22	1.39	1.46
21	LK	142	ARG	CD-NE	-5.21	1.39	1.46
24	LN	279	ARG	CD-NE	-5.21	1.39	1.46
38	Lb	358	ARG	CD-NE	-5.21	1.39	1.46
38	Lb	791	ARG	CD-NE	-5.21	1.39	1.46
40	Ld	531	ARG	CD-NE	-5.21	1.39	1.46
47	Lk	540	ARG	CD-NE	-5.21	1.39	1.46
60	Lx	313	ARG	CD-NE	-5.21	1.39	1.46
68	UF	32	ARG	CD-NE	-5.21	1.39	1.46
18	LH	236	ARG	CD-NE	-5.21	1.39	1.46
47	Lk	474	ARG	CD-NE	-5.21	1.39	1.46
51	Lo	181	GLY	N-CA	-5.21	1.37	1.45
59	Lw	22	PRO	CA-CB	-5.21	1.46	1.54

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	L2	171	ARG	CD-NE	-5.21	1.39	1.46
9	L8	160	ARG	CD-NE	-5.21	1.39	1.46
13	LC	170	ARG	CD-NE	-5.21	1.39	1.46
38	Lb	727	ARG	CD-NE	-5.21	1.39	1.46
40	Ld	594	ARG	CD-NE	-5.21	1.39	1.46
51	Lo	147	ARG	CD-NE	-5.21	1.39	1.46
8	L7	40	GLY	N-CA	-5.21	1.37	1.45
39	Lc	612	ARG	CD-NE	-5.21	1.39	1.46
40	Ld	494	ARG	CD-NE	-5.21	1.39	1.46
52	Lp	604	ARG	CD-NE	-5.21	1.39	1.46
22	LL	909	ARG	CD-NE	-5.21	1.39	1.46
29	LS	73	ARG	CD-NE	-5.21	1.39	1.46
32	LV	1063	ARG	CD-NE	-5.21	1.39	1.46
55	Ls	521	LYS	CA-CB	-5.21	1.47	1.53
5	L4	469	ARG	CD-NE	-5.21	1.39	1.46
9	L8	52	ARG	CD-NE	-5.21	1.39	1.46
38	Lb	912	GLY	N-CA	-5.21	1.37	1.44
25	LO	308	GLY	N-CA	-5.21	1.37	1.45
37	La	38	ARG	CD-NE	-5.21	1.39	1.46
39	Lc	213	SER	CA-CB	-5.21	1.47	1.53
12	LB	93	GLU	CA-CB	-5.20	1.47	1.53
15	LE	376	ARG	CD-NE	-5.20	1.39	1.46
20	LJ	284	ARG	CD-NE	-5.20	1.39	1.46
22	LL	531	ARG	CD-NE	-5.20	1.39	1.46
27	LQ	403	ARG	CD-NE	-5.20	1.39	1.46
35	LY	443	ARG	CD-NE	-5.20	1.39	1.46
26	LP	115	ARG	CD-NE	-5.20	1.39	1.46
35	LY	531	ARG	CD-NE	-5.20	1.39	1.46
44	Lh	740	ARG	CD-NE	-5.20	1.39	1.46
53	Lq	103	PRO	CA-CB	-5.20	1.46	1.54
26	LP	280	ARG	CD-NE	-5.20	1.39	1.46
49	Lm	372	ARG	CD-NE	-5.20	1.39	1.46
5	L4	593	ARG	CD-NE	-5.20	1.39	1.46
36	LZ	70	ARG	CD-NE	-5.20	1.39	1.46
13	LC	178	ARG	CD-NE	-5.20	1.39	1.46
33	LW	471	ARG	CD-NE	-5.20	1.39	1.46
51	Lo	184	ARG	CD-NE	-5.20	1.39	1.46
56	Lt	131	ARG	CD-NE	-5.20	1.39	1.46
1	L0	396	ARG	CD-NE	-5.19	1.39	1.46
23	LM	63	ARG	CD-NE	-5.19	1.39	1.46
43	Lg	175	ARG	CD-NE	-5.19	1.39	1.46
53	Lq	125	ARG	CD-NE	-5.19	1.39	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	LC	180	PRO	CA-CB	-5.19	1.46	1.53
25	LO	133	ARG	CD-NE	-5.19	1.39	1.46
32	LV	370	ARG	CD-NE	-5.19	1.39	1.46
36	LZ	5	ARG	CD-NE	-5.19	1.39	1.46
31	LU	289	GLY	N-CA	-5.19	1.37	1.45
37	La	39	ARG	CD-NE	-5.19	1.39	1.46
43	Lg	115	ARG	CD-NE	-5.19	1.39	1.46
5	L4	587	ARG	CD-NE	-5.19	1.39	1.46
61	Ly	363	ARG	CD-NE	-5.19	1.39	1.46
4	L3	573	ARG	CZ-NH2	-5.19	1.26	1.33
9	L8	161	ARG	CD-NE	-5.19	1.39	1.46
13	LC	319	ARG	CD-NE	-5.19	1.39	1.46
13	LC	567	ARG	CD-NE	-5.19	1.39	1.46
36	LZ	82	PRO	CA-CB	-5.19	1.46	1.53
44	Lh	495	GLY	N-CA	-5.19	1.37	1.45
60	Lx	370	ARG	CD-NE	-5.19	1.39	1.46
11	LA	131	ARG	CD-NE	-5.19	1.39	1.46
30	LT	10	ARG	CD-NE	-5.19	1.39	1.46
36	LZ	39	ALA	CA-CB	-5.19	1.43	1.54
36	LZ	110	ARG	CD-NE	-5.19	1.39	1.46
44	Lh	588	TYR	N-CA	-5.19	1.41	1.46
52	Lp	456	ARG	CD-NE	-5.19	1.39	1.46
11	LA	167	ARG	CD-NE	-5.18	1.39	1.46
13	LC	151	GLN	CA-CB	-5.18	1.47	1.53
15	LE	601	PRO	CA-CB	-5.18	1.49	1.53
38	Lb	384	ARG	CD-NE	-5.18	1.39	1.46
51	Lo	224	ARG	CD-NE	-5.18	1.39	1.46
52	Lp	627	ARG	CD-NE	-5.18	1.39	1.46
96	lO	48	A	C6-N6	-5.18	1.23	1.33
29	LS	9	ARG	CD-NE	-5.18	1.39	1.46
45	Li	363	ARG	CD-NE	-5.18	1.39	1.46
45	Li	601	ARG	CD-NE	-5.18	1.39	1.46
52	Lp	709	ARG	CD-NE	-5.18	1.39	1.46
68	UF	61	ARG	CD-NE	-5.18	1.39	1.46
59	Lw	19	GLY	N-CA	-5.18	1.37	1.45
36	LZ	27	ARG	CD-NE	-5.18	1.39	1.46
36	LZ	196	ARG	CD-NE	-5.18	1.39	1.46
38	Lb	721	ARG	CD-NE	-5.18	1.39	1.46
61	Ly	338	ARG	CD-NE	-5.18	1.39	1.46
64	UB	313	PRO	CA-CB	-5.18	1.46	1.53
66	UD	201	GLY	N-CA	-5.18	1.37	1.45
6	L5	451	PRO	CA-CB	-5.18	1.46	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
13	LC	139	ARG	CD-NE	-5.18	1.39	1.46
38	Lb	355	ARG	CD-NE	-5.18	1.39	1.46
1	L0	586	ARG	CD-NE	-5.18	1.39	1.46
22	LL	524	PRO	CA-CB	-5.18	1.47	1.53
32	LV	889	ARG	CD-NE	-5.18	1.39	1.46
39	Lc	247	ARG	CD-NE	-5.18	1.39	1.46
39	Lc	427	ARG	CD-NE	-5.18	1.39	1.46
42	Lf	342	ARG	CD-NE	-5.18	1.39	1.46
46	Lj	97	ARG	CD-NE	-5.18	1.39	1.46
54	Lr	20	ARG	CD-NE	-5.18	1.39	1.46
57	Lu	417	GLY	N-CA	-5.18	1.38	1.45
67	UE	127	ARG	CD-NE	-5.18	1.39	1.46
1	L0	385	ARG	CD-NE	-5.17	1.39	1.46
1	L0	469	ARG	CD-NE	-5.17	1.39	1.46
4	L3	596	ARG	CZ-NH2	-5.17	1.26	1.33
4	L3	621	GLY	N-CA	-5.17	1.37	1.45
32	LV	486	ARG	CD-NE	-5.17	1.39	1.46
46	Lj	102	ARG	CD-NE	-5.17	1.39	1.46
69	UG	262	ARG	CD-NE	-5.17	1.39	1.46
6	L5	476	ARG	CD-NE	-5.17	1.39	1.46
19	LI	15	GLY	N-CA	-5.17	1.37	1.44
20	LJ	312	ARG	CD-NE	-5.17	1.39	1.46
38	Lb	753	ARG	CD-NE	-5.17	1.39	1.46
39	Lc	494	ARG	CD-NE	-5.17	1.39	1.46
42	Lf	314	ARG	CD-NE	-5.17	1.39	1.46
47	Lk	477	ARG	CZ-NH2	-5.17	1.26	1.33
22	LL	255	GLY	N-CA	-5.17	1.38	1.45
35	LY	464	ARG	CD-NE	-5.17	1.39	1.46
38	Lb	584	ARG	CD-NE	-5.17	1.39	1.46
43	Lg	230	ARG	CD-NE	-5.17	1.39	1.46
26	LP	281	ARG	CD-NE	-5.17	1.39	1.46
37	La	37	ARG	CD-NE	-5.17	1.39	1.46
32	LV	291	PRO	CA-CB	-5.17	1.47	1.54
33	LW	423	GLY	N-CA	-5.17	1.37	1.45
40	Ld	344	ARG	CD-NE	-5.17	1.39	1.46
1	L0	427	ARG	CD-NE	-5.16	1.39	1.46
7	L6	240	PRO	CA-CB	-5.16	1.46	1.53
25	LO	11	ARG	CD-NE	-5.16	1.39	1.46
54	Lr	259	GLY	N-CA	-5.16	1.37	1.45
20	LJ	338	GLY	N-CA	-5.16	1.37	1.44
46	Lj	24	GLY	N-CA	-5.16	1.37	1.45
53	Lq	673	ALA	N-CA	-5.16	1.41	1.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
83	lB	19	A	C6-N6	-5.16	1.23	1.33
20	LJ	431	ARG	CZ-NH2	-5.16	1.26	1.33
32	LV	249	ALA	N-CA	-5.16	1.41	1.45
35	LY	246	GLY	N-CA	-5.16	1.37	1.45
8	L7	62	MET	CA-CB	-5.16	1.47	1.53
12	LB	18	ARG	CD-NE	-5.16	1.39	1.46
51	Lo	347	ARG	CD-NE	-5.16	1.39	1.46
21	LK	140	GLY	N-CA	-5.16	1.37	1.45
59	Lw	13	ARG	CD-NE	-5.16	1.39	1.46
9	L8	16	ARG	CD-NE	-5.16	1.39	1.46
56	Lt	152	PRO	CA-CB	-5.16	1.47	1.54
62	Lz	142	ARG	CD-NE	-5.16	1.39	1.46
25	LO	115	GLY	N-CA	-5.15	1.37	1.45
32	LV	296	PRO	CA-CB	-5.15	1.46	1.53
70	UH	273	ARG	CD-NE	-5.15	1.39	1.46
52	Lp	668	GLY	N-CA	-5.15	1.37	1.45
56	Lt	265	ARG	CD-NE	-5.15	1.39	1.46
69	UG	313	ARG	CD-NE	-5.15	1.39	1.46
20	LJ	230	ARG	CD-NE	-5.15	1.39	1.46
38	Lb	423	ARG	CD-NE	-5.15	1.39	1.46
38	Lb	720	ARG	CD-NE	-5.15	1.39	1.46
41	Le	604	ARG	CD-NE	-5.15	1.39	1.46
53	Lq	478	ARG	CD-NE	-5.15	1.39	1.46
1	L0	258	ARG	CD-NE	-5.15	1.39	1.46
20	LJ	395	ARG	CD-NE	-5.15	1.39	1.46
23	LM	6	ARG	CD-NE	-5.15	1.39	1.46
37	La	78	ARG	CD-NE	-5.15	1.39	1.46
51	Lo	82	ARG	CD-NE	-5.15	1.39	1.46
5	L4	559	ALA	CA-CB	-5.15	1.45	1.53
6	L5	450	ARG	CD-NE	-5.15	1.39	1.46
57	Lu	279	ARG	CD-NE	-5.15	1.39	1.46
44	Lh	559	GLY	N-CA	-5.14	1.38	1.45
55	Ls	385	ARG	CD-NE	-5.14	1.39	1.46
20	LJ	280	ARG	CD-NE	-5.14	1.39	1.46
26	LP	257	ARG	CD-NE	-5.14	1.39	1.46
45	Li	124	PRO	CA-CB	-5.14	1.46	1.53
26	LP	82	HIS	CA-CB	-5.14	1.47	1.53
38	Lb	371	ARG	CD-NE	-5.14	1.39	1.46
55	Ls	376	GLY	N-CA	-5.14	1.38	1.45
4	L3	527	ARG	CZ-NH2	-5.14	1.26	1.33
44	Lh	307	PRO	CA-CB	-5.14	1.46	1.53
47	Lk	390	ARG	CZ-NH2	-5.14	1.26	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
21	LK	164	PRO	CA-CB	-5.14	1.46	1.53
24	LN	341	ARG	CD-NE	-5.14	1.39	1.46
55	Ls	398	GLY	N-CA	-5.14	1.37	1.44
59	Lw	166	ARG	CD-NE	-5.14	1.39	1.46
5	L4	223	ARG	CD-NE	-5.14	1.39	1.46
33	LW	381	GLY	N-CA	-5.14	1.38	1.45
25	LO	339	GLY	N-CA	-5.13	1.38	1.45
27	LQ	362	PRO	CA-CB	-5.13	1.46	1.53
38	Lb	312	ARG	CD-NE	-5.13	1.39	1.46
53	Lq	271	ARG	CD-NE	-5.13	1.39	1.46
59	Lw	16	VAL	N-CA	-5.13	1.42	1.46
62	Lz	178	GLY	N-CA	-5.13	1.38	1.45
33	LW	390	GLY	N-CA	-5.13	1.38	1.45
1	L0	319	GLY	N-CA	-5.13	1.38	1.45
11	LA	73	GLY	N-CA	-5.13	1.38	1.45
41	Le	441	PRO	CA-CB	-5.13	1.47	1.53
20	LJ	318	GLY	N-CA	-5.13	1.38	1.45
34	LX	129	GLY	N-CA	-5.13	1.38	1.45
52	Lp	414	ARG	CD-NE	-5.13	1.39	1.46
93	lL	74	A	C6-N6	-5.13	1.23	1.33
2	L1	470	GLY	N-CA	-5.13	1.38	1.45
11	LA	91	GLY	N-CA	-5.13	1.38	1.45
25	LO	203	LEU	CA-CB	-5.13	1.47	1.53
37	La	85	ARG	CA-CB	-5.13	1.47	1.53
40	Ld	359	ARG	CD-NE	-5.13	1.39	1.46
46	Lj	113	ARG	CD-NE	-5.13	1.39	1.46
94	lM	87	C	C4-N4	-5.13	1.23	1.33
39	Lc	518	ARG	CD-NE	-5.12	1.39	1.46
48	Ll	33	ARG	CD-NE	-5.12	1.39	1.46
13	LC	122	GLY	N-CA	-5.12	1.38	1.45
22	LL	286	LEU	CA-CB	-5.12	1.47	1.53
26	LP	211	GLY	N-CA	-5.12	1.38	1.45
53	Lq	868	HIS	CD2-NE2	-5.12	1.32	1.37
63	UA	266	PRO	CA-CB	-5.12	1.46	1.53
16	LF	165	TYR	CA-CB	-5.12	1.47	1.53
52	Lp	722	PRO	CA-CB	-5.12	1.46	1.53
85	lD	10	A	C6-N6	-5.12	1.23	1.33
30	LT	84	GLY	N-CA	-5.12	1.38	1.45
32	LV	292	PRO	CA-CB	-5.12	1.46	1.53
38	Lb	357	ARG	CD-NE	-5.12	1.39	1.46
43	Lg	97	ARG	CD-NE	-5.12	1.39	1.46
95	lN	33	A	C6-N6	-5.12	1.23	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
28	LR	25	ARG	CD-NE	-5.12	1.39	1.46
47	Lk	522	GLY	N-CA	-5.12	1.38	1.45
52	Lp	629	GLY	N-CA	-5.11	1.38	1.45
91	lJ	177	C	C4-N4	-5.11	1.23	1.33
96	lO	38	A	C6-N6	-5.11	1.23	1.33
41	Le	573	ARG	CD-NE	-5.11	1.39	1.46
91	lJ	272	C	C4-N4	-5.11	1.23	1.33
1	L0	618	ARG	CD-NE	-5.11	1.39	1.46
13	LC	161	GLY	N-CA	-5.11	1.38	1.45
33	LW	425	PRO	CA-CB	-5.11	1.46	1.53
39	Lc	213	SER	N-CA	-5.11	1.41	1.46
51	Lo	335	PRO	CA-CB	-5.11	1.47	1.54
79	l7	64	A	C6-N6	-5.11	1.23	1.33
90	lI	17	G	C2-N2	-5.11	1.24	1.34
37	La	194	PRO	CA-CB	-5.10	1.46	1.53
79	l7	62	A	C6-N6	-5.10	1.23	1.33
94	lM	149	G	C2-N2	-5.10	1.24	1.34
91	lJ	42	A	C6-N6	-5.10	1.23	1.33
54	Lr	264	GLY	N-CA	-5.10	1.38	1.45
17	LG	185	PRO	CA-CB	-5.10	1.49	1.53
25	LO	48	PRO	CA-CB	-5.10	1.46	1.53
39	Lc	526	ARG	CD-NE	-5.10	1.39	1.46
47	Lk	466	PRO	CA-CB	-5.10	1.46	1.53
20	LJ	245	ARG	N-CA	-5.10	1.41	1.45
77	l5	40	G	C2-N2	-5.10	1.24	1.34
60	Lx	366	PRO	CA-CB	-5.10	1.46	1.53
33	LW	489	PRO	CA-CB	-5.09	1.46	1.53
78	l6	21	A	C6-N6	-5.09	1.23	1.33
96	lO	105	G	C2-N2	-5.09	1.24	1.34
1	L0	393	GLY	N-CA	-5.09	1.38	1.45
96	lO	163	G	C2-N2	-5.09	1.24	1.34
4	L3	548	ARG	CZ-NH2	-5.09	1.26	1.33
93	lL	85	A	C6-N6	-5.09	1.23	1.33
96	lO	72	A	C6-N6	-5.09	1.23	1.33
4	L3	521	ARG	CZ-NH2	-5.09	1.26	1.33
93	lL	14	A	C6-N6	-5.09	1.23	1.33
93	lL	64	G	C2-N2	-5.09	1.24	1.34
94	lM	151	A	C6-N6	-5.09	1.23	1.33
37	La	94	GLY	N-CA	-5.08	1.38	1.45
46	Lj	95	PRO	CA-CB	-5.08	1.46	1.53
79	l7	63	A	C6-N6	-5.08	1.23	1.33
61	Ly	288	GLY	N-CA	-5.08	1.38	1.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
96	lO	43	G	C2-N2	-5.08	1.24	1.34
13	LC	447	GLY	N-CA	-5.08	1.38	1.45
33	LW	482	PRO	CA-CB	-5.08	1.46	1.53
47	Lk	392	ARG	CZ-NH2	-5.08	1.26	1.33
45	Li	703	PRO	CA-CB	-5.08	1.47	1.53
91	lJ	9	G	C2-N2	-5.08	1.24	1.34
25	LO	87	ARG	CD-NE	-5.08	1.39	1.46
49	Lm	275	GLY	N-CA	-5.08	1.37	1.44
93	lL	41	A	C6-N6	-5.08	1.23	1.33
96	lO	113	A	C6-N6	-5.08	1.23	1.33
83	lB	21	A	C6-N6	-5.08	1.23	1.33
28	LR	34	LEU	N-CA	-5.08	1.41	1.46
41	Le	595	GLY	N-CA	-5.08	1.38	1.45
78	l6	45	A	C6-N6	-5.08	1.23	1.33
79	l7	49	G	C2-N2	-5.08	1.24	1.34
86	lE	23	C	C4-N4	-5.08	1.23	1.33
90	lI	37	A	C6-N6	-5.08	1.23	1.33
91	lJ	174	C	C4-N4	-5.08	1.23	1.33
8	L7	38	GLY	N-CA	-5.07	1.38	1.45
43	Lg	200	PRO	CA-CB	-5.07	1.46	1.53
81	l9	62	A	C6-N6	-5.07	1.23	1.33
83	lB	8	G	C2-N2	-5.07	1.24	1.34
44	Lh	303	PRO	CA-CB	-5.07	1.47	1.53
87	lF	24	G	C2-N2	-5.07	1.24	1.34
22	LL	274	PRO	CA-CB	-5.07	1.46	1.53
25	LO	288	GLY	N-CA	-5.07	1.38	1.45
51	Lo	339	PRO	CA-CB	-5.07	1.46	1.53
76	l4	26	A	C6-N6	-5.07	1.23	1.33
79	l7	70	A	C6-N6	-5.07	1.23	1.33
91	lJ	5	G	C2-N2	-5.07	1.24	1.34
91	lJ	184	C	C4-N4	-5.07	1.23	1.33
91	lJ	271	C	C4-N4	-5.07	1.23	1.33
1	L0	399	ASP	CA-CB	-5.07	1.46	1.52
96	lO	145	C	C4-N4	-5.07	1.23	1.33
4	L3	575	ARG	CZ-NH2	-5.07	1.26	1.33
10	L9	11	LEU	CA-CB	-5.07	1.47	1.53
91	lJ	102	G	C2-N2	-5.07	1.24	1.34
93	lL	84	A	C6-N6	-5.07	1.23	1.33
95	lN	2	C	C4-N4	-5.07	1.23	1.33
4	L3	518	ARG	CZ-NH2	-5.07	1.26	1.33
26	LP	112	PRO	CA-CB	-5.07	1.46	1.53
33	LW	384	GLY	N-CA	-5.07	1.38	1.45

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
38	Lb	402	LEU	N-CA	-5.07	1.41	1.46
74	l2	3	G	C2-N2	-5.07	1.24	1.34
81	l9	10	C	C4-N4	-5.07	1.23	1.33
84	lC	11	C	C4-N4	-5.07	1.23	1.33
78	l6	26	C	C4-N4	-5.06	1.23	1.33
94	lM	184	A	C6-N6	-5.06	1.23	1.33
37	La	86	PRO	CA-CB	-5.06	1.46	1.53
38	Lb	719	PRO	CA-CB	-5.06	1.46	1.53
74	l2	28	A	C6-N6	-5.06	1.23	1.33
76	l4	49	C	C4-N4	-5.06	1.23	1.33
94	lM	152	A	C6-N6	-5.06	1.23	1.33
61	Ly	305	PRO	CA-CB	-5.06	1.47	1.54
33	LW	359	GLY	N-CA	-5.06	1.37	1.45
73	l1	33	A	C6-N6	-5.06	1.23	1.33
86	lE	28	A	C6-N6	-5.06	1.23	1.33
93	lL	38	G	C2-N2	-5.06	1.24	1.34
76	l4	64	C	C4-N4	-5.06	1.23	1.33
81	l9	9	C	C4-N4	-5.06	1.23	1.33
91	lJ	165	G	C2-N2	-5.06	1.24	1.34
91	lJ	193	A	C6-N6	-5.06	1.23	1.33
94	lM	76	C	C4-N4	-5.06	1.23	1.33
94	lM	165	G	C2-N2	-5.06	1.24	1.34
95	lN	1	A	C6-N6	-5.06	1.23	1.33
81	l9	70	C	C4-N4	-5.06	1.23	1.33
45	Li	582	ARG	CZ-NH2	-5.05	1.26	1.33
53	Lq	254	GLY	N-CA	-5.05	1.38	1.45
74	l2	7	G	C2-N2	-5.05	1.24	1.34
81	l9	26	A	C6-N6	-5.05	1.23	1.33
91	lJ	125	G	C2-N2	-5.05	1.24	1.34
91	lJ	139	G	C2-N2	-5.05	1.24	1.34
91	lJ	197	C	C4-N4	-5.05	1.23	1.33
4	L3	647	GLY	N-CA	-5.05	1.38	1.45
19	LI	19	GLY	N-CA	-5.05	1.38	1.45
61	Ly	306	PRO	CA-CB	-5.05	1.46	1.53
72	l0	40	C	C4-N4	-5.05	1.23	1.33
76	l4	67	G	C2-N2	-5.05	1.24	1.34
79	l7	71	A	C6-N6	-5.05	1.23	1.33
12	LB	109	PHE	CA-CB	-5.05	1.46	1.53
52	Lp	745	ARG	CD-NE	-5.05	1.39	1.46
56	Lt	83	PRO	CA-CB	-5.05	1.46	1.53
72	l0	36	C	C4-N4	-5.05	1.23	1.33
78	l6	25	A	C6-N6	-5.05	1.23	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
81	l9	15	A	C6-N6	-5.05	1.23	1.33
82	lA	47	A	C6-N6	-5.05	1.23	1.33
92	lK	19	C	C4-N4	-5.05	1.23	1.33
93	lL	36	A	C6-N6	-5.05	1.23	1.33
93	lL	39	G	C2-N2	-5.05	1.24	1.34
93	lL	48	A	C6-N6	-5.05	1.23	1.33
94	lM	79	C	C4-N4	-5.05	1.23	1.33
94	lM	89	G	C2-N2	-5.05	1.24	1.34
96	lO	164	A	C6-N6	-5.05	1.23	1.33
56	Lt	222	PRO	CA-CB	-5.05	1.46	1.53
70	UH	250	GLY	N-CA	-5.05	1.38	1.45
78	l6	41	A	C6-N6	-5.05	1.23	1.33
79	l7	60	A	C6-N6	-5.05	1.23	1.33
81	l9	57	A	C6-N6	-5.05	1.23	1.33
83	lB	22	G	C2-N2	-5.05	1.24	1.34
83	lB	31	G	C2-N2	-5.05	1.24	1.34
87	lF	20	A	C6-N6	-5.05	1.23	1.33
87	lF	86	A	C6-N6	-5.05	1.23	1.33
90	lI	15	C	C4-N4	-5.05	1.23	1.33
94	lM	30	A	C6-N6	-5.05	1.23	1.33
20	LJ	245	ARG	CA-CB	-5.05	1.47	1.54
77	l5	29	A	C6-N6	-5.05	1.23	1.33
91	lJ	273	C	C4-N4	-5.05	1.23	1.33
94	lM	33	A	C6-N6	-5.05	1.23	1.33
94	lM	73	C	C4-N4	-5.05	1.23	1.33
81	l9	27	C	C4-N4	-5.05	1.23	1.33
82	lA	20	G	C2-N2	-5.05	1.24	1.34
88	lG	17	A	C6-N6	-5.05	1.23	1.33
91	lJ	50	A	C6-N6	-5.05	1.23	1.33
91	lJ	182	G	C2-N2	-5.05	1.24	1.34
91	lJ	230	A	C6-N6	-5.05	1.23	1.33
96	lO	64	A	C6-N6	-5.05	1.23	1.33
4	L3	504	GLY	N-CA	-5.04	1.38	1.45
24	LN	322	LEU	CA-CB	-5.04	1.47	1.53
40	Ld	563	GLY	N-CA	-5.04	1.37	1.44
37	La	142	LYS	N-CA	-5.04	1.42	1.46
52	Lp	473	LYS	CA-CB	-5.04	1.47	1.53
72	l0	18	G	C2-N2	-5.04	1.24	1.34
74	l2	30	A	C6-N6	-5.04	1.23	1.33
91	lJ	128	A	C6-N6	-5.04	1.23	1.33
91	lJ	135	G	C2-N2	-5.04	1.24	1.34
91	lJ	208	A	C6-N6	-5.04	1.23	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
55	Ls	406	GLY	N-CA	-5.04	1.38	1.45
72	l0	41	C	C4-N4	-5.04	1.23	1.33
81	l9	18	A	C6-N6	-5.04	1.23	1.33
91	lJ	156	G	C2-N2	-5.04	1.24	1.34
93	lL	32	G	C2-N2	-5.04	1.24	1.34
93	lL	61	A	C6-N6	-5.04	1.23	1.33
95	lN	42	A	C6-N6	-5.04	1.23	1.33
81	l9	45	A	C6-N6	-5.04	1.23	1.33
82	lA	1	G	C2-N2	-5.04	1.24	1.34
87	lF	62	A	C6-N6	-5.04	1.23	1.33
96	lO	11	C	C4-N4	-5.04	1.23	1.33
27	LQ	400	GLY	N-CA	-5.04	1.38	1.45
49	Lm	266	PRO	CA-CB	-5.04	1.47	1.53
55	Ls	583	GLY	N-CA	-5.04	1.38	1.45
76	l4	86	G	C2-N2	-5.04	1.24	1.34
77	l5	60	G	C2-N2	-5.04	1.24	1.34
81	l9	82	C	C4-N4	-5.04	1.23	1.33
87	lF	12	C	C4-N4	-5.04	1.23	1.33
87	lF	13	A	C6-N6	-5.04	1.23	1.33
90	lI	36	A	C6-N6	-5.04	1.24	1.34
91	lJ	185	G	C2-N2	-5.04	1.24	1.34
91	lJ	214	A	C6-N6	-5.04	1.23	1.33
91	lJ	229	G	C2-N2	-5.04	1.24	1.34
37	La	169	GLY	N-CA	-5.04	1.38	1.45
75	l3	9	A	C6-N6	-5.04	1.23	1.33
76	l4	27	G	C2-N2	-5.04	1.24	1.34
83	lB	9	A	C6-N6	-5.04	1.23	1.33
21	LK	238	ARG	CZ-NH2	-5.04	1.26	1.33
25	LO	199	PRO	CA-CB	-5.04	1.47	1.53
82	lA	11	A	C6-N6	-5.04	1.23	1.33
82	lA	48	A	C6-N6	-5.04	1.23	1.33
84	lC	10	A	C6-N6	-5.04	1.23	1.33
91	lJ	43	C	C4-N4	-5.04	1.23	1.33
91	lJ	196	A	C6-N6	-5.04	1.23	1.33
92	lK	22	A	C6-N6	-5.04	1.23	1.33
93	lL	2	G	C2-N2	-5.04	1.24	1.34
94	lM	1	A	C6-N6	-5.04	1.23	1.33
96	lO	33	G	C2-N2	-5.04	1.24	1.34
96	lO	107	G	C2-N2	-5.04	1.24	1.34
18	LH	240	ALA	N-CA	-5.03	1.42	1.46
75	l3	51	G	C2-N2	-5.03	1.24	1.34
82	lA	12	C	C4-N4	-5.03	1.23	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
93	lL	83	A	C6-N6	-5.03	1.23	1.33
94	lM	71	A	C6-N6	-5.03	1.23	1.33
39	Lc	131	GLY	N-CA	-5.03	1.38	1.45
76	l4	32	G	C2-N2	-5.03	1.24	1.34
78	l6	22	G	C2-N2	-5.03	1.24	1.34
81	l9	25	A	C6-N6	-5.03	1.23	1.33
22	LL	525	LEU	CA-CB	-5.03	1.48	1.53
39	Lc	588	PRO	CA-CB	-5.03	1.46	1.53
48	Ll	138	ARG	N-CA	-5.03	1.42	1.46
76	l4	61	A	C6-N6	-5.03	1.23	1.33
86	lE	8	A	C6-N6	-5.03	1.24	1.34
86	lE	26	A	C6-N6	-5.03	1.23	1.33
87	lF	9	C	C4-N4	-5.03	1.23	1.33
90	lI	21	A	C6-N6	-5.03	1.23	1.33
90	lI	32	A	C6-N6	-5.03	1.23	1.33
91	lJ	171	A	C6-N6	-5.03	1.23	1.33
93	lL	87	A	C6-N6	-5.03	1.23	1.33
93	lL	91	A	C6-N6	-5.03	1.23	1.33
96	lO	60	A	C6-N6	-5.03	1.23	1.33
81	l9	24	G	C2-N2	-5.03	1.24	1.34
81	l9	72	A	C6-N6	-5.03	1.23	1.33
87	lF	22	C	C4-N4	-5.03	1.23	1.33
95	lN	35	G	C2-N2	-5.03	1.24	1.34
38	Lb	402	LEU	CA-CB	-5.03	1.48	1.53
73	l1	13	G	C2-N2	-5.03	1.24	1.34
76	l4	60	G	C2-N2	-5.03	1.24	1.34
78	l6	39	A	C6-N6	-5.03	1.23	1.33
82	lA	49	G	C2-N2	-5.03	1.24	1.34
88	lG	10	G	C2-N2	-5.03	1.24	1.34
91	lJ	112	G	C2-N2	-5.03	1.24	1.34
91	lJ	166	G	C2-N2	-5.03	1.24	1.34
94	lM	27	G	C2-N2	-5.03	1.24	1.34
96	lO	47	A	C6-N6	-5.03	1.23	1.33
96	lO	53	A	C6-N6	-5.03	1.23	1.33
96	lO	115	G	C2-N2	-5.03	1.24	1.34
29	LS	156	PRO	CA-CB	-5.03	1.46	1.53
54	Lr	9	GLY	N-CA	-5.03	1.38	1.45
76	l4	36	A	C6-N6	-5.03	1.23	1.33
76	l4	58	A	C6-N6	-5.03	1.23	1.33
76	l4	59	G	C2-N2	-5.03	1.24	1.34
76	l4	62	G	C2-N2	-5.03	1.24	1.34
77	l5	28	C	C4-N4	-5.03	1.23	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
79	l7	58	A	C6-N6	-5.03	1.23	1.33
79	l7	67	A	C6-N6	-5.03	1.24	1.33
81	l9	39	G	C2-N2	-5.03	1.24	1.34
92	lK	14	G	C2-N2	-5.03	1.24	1.34
94	lM	32	C	C4-N4	-5.03	1.23	1.33
73	l1	37	A	C6-N6	-5.02	1.24	1.33
76	l4	30	C	C4-N4	-5.02	1.24	1.33
78	l6	43	A	C6-N6	-5.02	1.24	1.33
79	l7	66	A	C6-N6	-5.02	1.24	1.33
88	lG	19	C	C4-N4	-5.02	1.24	1.33
36	LZ	122	PRO	CA-CB	-5.02	1.47	1.53
75	l3	35	A	C6-N6	-5.02	1.24	1.33
75	l3	52	A	C6-N6	-5.02	1.24	1.33
79	l7	61	A	C6-N6	-5.02	1.24	1.33
81	l9	17	C	C4-N4	-5.02	1.24	1.33
81	l9	75	A	C6-N6	-5.02	1.24	1.33
83	lB	32	A	C6-N6	-5.02	1.24	1.33
87	lF	29	G	C2-N2	-5.02	1.24	1.34
93	lL	88	A	C6-N6	-5.02	1.24	1.33
95	lN	38	A	C6-N6	-5.02	1.24	1.33
96	lO	9	A	C6-N6	-5.02	1.24	1.33
96	lO	55	A	C6-N6	-5.02	1.24	1.33
96	lO	91	A	C6-N6	-5.02	1.24	1.33
81	l9	52	C	C4-N4	-5.02	1.24	1.33
87	lF	64	G	C2-N2	-5.02	1.24	1.34
91	lJ	16	G	C2-N2	-5.02	1.24	1.34
91	lJ	203	G	C2-N2	-5.02	1.24	1.34
92	lK	23	A	C6-N6	-5.02	1.24	1.33
96	lO	155	A	C6-N6	-5.02	1.24	1.33
76	l4	21	A	C6-N6	-5.02	1.24	1.33
79	l7	65	A	C6-N6	-5.02	1.24	1.33
83	lB	30	C	C4-N4	-5.02	1.24	1.33
90	lI	3	A	C6-N6	-5.02	1.24	1.33
91	lJ	172	C	C4-N4	-5.02	1.24	1.33
93	lL	66	A	C6-N6	-5.02	1.24	1.33
94	lM	28	A	C6-N6	-5.02	1.24	1.33
94	lM	78	C	C4-N4	-5.02	1.24	1.33
96	lO	70	C	C4-N4	-5.02	1.24	1.33
96	lO	71	G	C2-N2	-5.02	1.24	1.34
96	lO	109	C	C4-N4	-5.02	1.24	1.33
96	lO	161	A	C6-N6	-5.02	1.24	1.33
46	Lj	110	PRO	CA-CB	-5.02	1.47	1.53

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
75	l3	50	C	C4-N4	-5.02	1.24	1.33
77	l5	32	G	C2-N2	-5.02	1.24	1.34
79	l7	57	A	C6-N6	-5.02	1.24	1.33
84	lC	25	A	C6-N6	-5.02	1.24	1.33
91	lJ	22	C	C4-N4	-5.02	1.24	1.33
91	lJ	189	A	C6-N6	-5.02	1.24	1.33
96	lO	34	A	C6-N6	-5.02	1.24	1.33
51	Lo	342	GLY	N-CA	-5.02	1.37	1.44
59	Lw	3	PRO	CA-CB	-5.02	1.46	1.53
72	l0	37	G	C2-N2	-5.02	1.24	1.34
78	l6	23	C	C4-N4	-5.02	1.24	1.33
85	lD	14	C	C4-N4	-5.02	1.24	1.33
38	Lb	743	GLY	N-CA	-5.01	1.38	1.45
72	l0	42	G	C2-N2	-5.01	1.24	1.34
76	l4	2	C	C4-N4	-5.01	1.24	1.33
87	lF	63	A	C6-N6	-5.01	1.24	1.33
91	lJ	124	G	C2-N2	-5.01	1.24	1.34
91	lJ	238	G	C2-N2	-5.01	1.24	1.34
93	lL	52	C	C4-N4	-5.01	1.24	1.33
93	lL	86	A	C6-N6	-5.01	1.24	1.33
95	lN	39	A	C6-N6	-5.01	1.24	1.33
96	lO	15	A	C6-N6	-5.01	1.24	1.33
96	lO	17	G	C2-N2	-5.01	1.24	1.34
96	lO	49	C	C4-N4	-5.01	1.24	1.33
96	lO	167	A	C6-N6	-5.01	1.24	1.33
81	l9	63	A	C6-N6	-5.01	1.24	1.33
90	lI	20	A	C6-N6	-5.01	1.24	1.33
91	lJ	170	G	C2-N2	-5.01	1.24	1.34
64	UB	363	PRO	CA-CB	-5.01	1.47	1.54
76	l4	54	A	C6-N6	-5.01	1.24	1.33
81	l9	46	A	C6-N6	-5.01	1.24	1.33
91	lJ	226	G	C2-N2	-5.01	1.24	1.34
93	lL	60	G	C2-N2	-5.01	1.24	1.34
96	lO	146	A	C6-N6	-5.01	1.24	1.33
25	LO	157	ASP	CA-CB	-5.01	1.47	1.53
40	Ld	471	ASN	N-CA	-5.01	1.41	1.46
73	l1	8	A	C6-N6	-5.01	1.24	1.33
74	l2	15	G	C2-N2	-5.01	1.24	1.34
75	l3	53	G	C2-N2	-5.01	1.24	1.34
75	l3	59	A	C6-N6	-5.01	1.24	1.33
90	lI	40	A	C6-N6	-5.01	1.24	1.33
90	lI	44	A	C6-N6	-5.01	1.24	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
91	lJ	19	C	C4-N4	-5.01	1.24	1.33
91	lJ	140	G	C2-N2	-5.01	1.24	1.34
91	lJ	209	G	C2-N2	-5.01	1.24	1.34
91	lJ	234	A	C6-N6	-5.01	1.24	1.33
93	lL	90	A	C6-N6	-5.01	1.24	1.33
95	lN	41	G	C2-N2	-5.01	1.24	1.34
96	lO	14	A	C6-N6	-5.01	1.24	1.33
96	lO	36	C	C4-N4	-5.01	1.24	1.33
51	Lo	67	PRO	N-CD	-5.01	1.40	1.47
73	l1	50	A	C6-N6	-5.01	1.24	1.33
76	l4	33	A	C6-N6	-5.01	1.24	1.33
78	l6	24	G	C2-N2	-5.01	1.24	1.34
79	l7	47	A	C6-N6	-5.01	1.24	1.33
79	l7	69	A	C6-N6	-5.01	1.24	1.33
85	lD	11	C	C4-N4	-5.01	1.24	1.33
90	lI	19	G	C2-N2	-5.01	1.24	1.34
94	lM	156	G	C2-N2	-5.01	1.24	1.34
55	Ls	394	GLY	N-CA	-5.01	1.38	1.45
75	l3	60	A	C6-N6	-5.01	1.24	1.33
81	l9	74	G	C2-N2	-5.01	1.24	1.34
81	l9	81	A	C6-N6	-5.01	1.24	1.33
83	lB	44	G	C2-N2	-5.01	1.24	1.34
85	lD	4	A	C6-N6	-5.01	1.24	1.33
91	lJ	127	A	C6-N6	-5.01	1.24	1.33
94	lM	130	C	C4-N4	-5.01	1.24	1.33
95	lN	24	G	C2-N2	-5.01	1.24	1.34
39	Lc	507	ALA	CA-CB	-5.00	1.45	1.53
81	l9	73	G	C2-N2	-5.00	1.24	1.34
86	lE	24	A	C6-N6	-5.00	1.24	1.33
96	lO	121	C	C4-N4	-5.00	1.24	1.33
1	L0	254	PRO	CA-CB	-5.00	1.47	1.53
2	L1	472	GLY	N-CA	-5.00	1.38	1.45
53	Lq	153	PRO	CA-CB	-5.00	1.47	1.53
79	l7	52	G	C2-N2	-5.00	1.24	1.34
81	l9	42	C	C4-N4	-5.00	1.24	1.33
90	lI	5	G	C2-N2	-5.00	1.24	1.34
91	lJ	129	A	C6-N6	-5.00	1.24	1.33
93	lL	44	C	C4-N4	-5.00	1.24	1.33
93	lL	82	A	C6-N6	-5.00	1.24	1.33
95	lN	18	A	C6-N6	-5.00	1.24	1.34
95	lN	30	A	C6-N6	-5.00	1.24	1.33
96	lO	40	A	C6-N6	-5.00	1.24	1.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
20	LJ	76	HIS	CA-CB	-5.00	1.46	1.52
41	Le	507	PRO	CA-CB	-5.00	1.46	1.53
73	l1	48	A	C6-N6	-5.00	1.24	1.33
74	l2	16	C	C4-N4	-5.00	1.24	1.33
76	l4	48	G	C2-N2	-5.00	1.24	1.34
76	l4	92	A	C6-N6	-5.00	1.24	1.33
78	l6	40	A	C6-N6	-5.00	1.24	1.33
79	l7	59	A	C6-N6	-5.00	1.24	1.33
81	l9	65	A	C6-N6	-5.00	1.24	1.33
82	lA	18	C	C4-N4	-5.00	1.24	1.33
87	lF	14	G	C2-N2	-5.00	1.24	1.34
90	lI	22	G	C2-N2	-5.00	1.24	1.34
93	lL	19	A	C6-N6	-5.00	1.24	1.33
94	lM	90	C	C4-N4	-5.00	1.24	1.33

All (7422) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	LJ	285	ARG	CA-C-N	11.39	130.79	122.59
20	LJ	285	ARG	C-N-CA	11.39	130.79	122.59
59	Lw	108	PRO	CA-N-CD	-9.73	98.37	112.00
33	LW	305	MET	CA-C-N	9.17	128.51	122.18
33	LW	305	MET	C-N-CA	9.17	128.51	122.18
72	l0	31	G	O5'-C5'-C4'	9.09	125.33	111.70
38	Lb	425	LEU	CA-C-N	8.52	127.15	120.33
38	Lb	425	LEU	C-N-CA	8.52	127.15	120.33
14	LD	514	TYR	CA-C-N	8.49	129.75	122.28
14	LD	514	TYR	C-N-CA	8.49	129.75	122.28
14	LD	385	GLU	CA-C-N	8.34	130.75	122.66
14	LD	385	GLU	C-N-CA	8.34	130.75	122.66
52	Lp	552	GLU	CA-C-N	8.31	130.86	122.96
52	Lp	552	GLU	C-N-CA	8.31	130.86	122.96
52	Lp	627	ARG	CA-C-N	8.20	130.75	122.96
52	Lp	627	ARG	C-N-CA	8.20	130.75	122.96
25	LO	86	PHE	CA-CB-CG	8.15	121.95	113.80
59	Lw	113	PHE	CA-C-N	8.08	129.79	119.78
59	Lw	113	PHE	C-N-CA	8.08	129.79	119.78
39	Lc	355	PHE	CA-CB-CG	8.06	121.86	113.80
22	LL	335	SER	CA-C-N	7.95	130.24	123.33
22	LL	335	SER	C-N-CA	7.95	130.24	123.33
18	LH	206	PRO	CA-C-N	7.91	129.73	122.37
18	LH	206	PRO	C-N-CA	7.91	129.73	122.37

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	L8	24	GLY	N-CA-C	7.85	120.01	112.08
22	LL	296	HIS	CA-CB-CG	7.75	121.55	113.80
52	Lp	576	ARG	CA-C-N	7.73	130.06	123.33
52	Lp	576	ARG	C-N-CA	7.73	130.06	123.33
49	Lm	292	ASN	CA-C-N	7.64	129.22	121.35
49	Lm	292	ASN	C-N-CA	7.64	129.22	121.35
39	Lc	407	GLU	CA-C-N	7.63	129.24	119.78
39	Lc	407	GLU	C-N-CA	7.63	129.24	119.78
1	L0	349	ARG	CA-C-N	7.61	128.98	122.28
1	L0	349	ARG	C-N-CA	7.61	128.98	122.28
19	LI	86	PHE	CA-CB-CG	7.59	121.39	113.80
33	LW	440	ASN	CA-CB-CG	7.58	120.19	112.60
38	Lb	784	PHE	CA-CB-CG	7.58	121.38	113.80
64	UB	370	PHE	CA-CB-CG	7.58	121.38	113.80
40	Ld	589	HIS	CA-CB-CG	7.56	121.36	113.80
45	Li	364	HIS	CA-CB-CG	7.54	121.34	113.80
20	LJ	132	PHE	CA-CB-CG	7.54	121.34	113.80
53	Lq	693	PHE	CA-CB-CG	7.53	121.33	113.80
25	LO	303	HIS	CA-CB-CG	7.53	121.33	113.80
65	UC	291	HIS	CA-C-N	7.53	130.34	121.84
65	UC	291	HIS	C-N-CA	7.53	130.34	121.84
70	UH	236	PRO	CA-C-N	7.52	130.69	120.54
70	UH	236	PRO	C-N-CA	7.52	130.69	120.54
51	Lo	294	HIS	CA-CB-CG	7.50	121.30	113.80
39	Lc	202	ASP	CA-CB-CG	7.48	120.08	112.60
45	Li	362	PHE	CA-CB-CG	7.48	121.28	113.80
20	LJ	104	PHE	CA-CB-CG	7.47	121.27	113.80
30	LT	55	HIS	CA-CB-CG	7.47	121.27	113.80
22	LL	297	ASN	CA-CB-CG	7.46	120.06	112.60
60	Lx	303	HIS	CA-CB-CG	7.45	121.25	113.80
46	Lj	32	ASN	CA-CB-CG	7.44	120.04	112.60
4	L3	614	ASP	CA-CB-CG	7.43	120.03	112.60
9	L8	11	ASN	CA-CB-CG	7.42	120.02	112.60
33	LW	242	HIS	CA-CB-CG	7.41	121.21	113.80
52	Lp	715	GLY	CA-C-N	7.40	130.55	123.08
52	Lp	715	GLY	C-N-CA	7.40	130.55	123.08
24	LN	268	HIS	CA-CB-CG	7.39	121.19	113.80
40	Ld	534	HIS	CA-CB-CG	7.38	121.17	113.80
33	LW	396	HIS	CA-CB-CG	7.37	121.17	113.80
13	LC	475	PHE	CA-CB-CG	7.37	121.17	113.80
12	LB	65	PHE	CA-CB-CG	7.37	121.17	113.80
29	LS	115	HIS	CA-CB-CG	7.37	121.17	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	L3	688	HIS	CA-CB-CG	7.36	121.16	113.80
32	LV	624	PHE	CA-CB-CG	7.34	121.14	113.80
21	LK	101	ARG	CA-C-N	7.33	129.78	122.66
21	LK	101	ARG	C-N-CA	7.33	129.78	122.66
57	Lu	494	HIS	CA-CB-CG	7.33	121.14	113.80
47	Lk	536	PHE	CA-CB-CG	7.32	121.11	113.80
22	LL	534	ASP	CA-CB-CG	7.31	119.91	112.60
61	Ly	505	ASN	CA-CB-CG	7.30	119.91	112.60
14	LD	394	HIS	CA-CB-CG	7.30	121.10	113.80
38	Lb	837	PHE	CA-CB-CG	7.29	121.09	113.80
39	Lc	300	PHE	CA-CB-CG	7.29	121.09	113.80
33	LW	291	ASP	CA-CB-CG	7.29	119.89	112.60
9	L8	83	PHE	CA-CB-CG	7.28	121.08	113.80
39	Lc	442	ASN	CA-CB-CG	7.28	119.88	112.60
38	Lb	444	PHE	CA-CB-CG	7.28	121.08	113.80
34	LX	137	PHE	CA-CB-CG	7.28	121.08	113.80
57	Lu	391	PHE	CA-CB-CG	7.28	121.08	113.80
46	Lj	68	ASN	CA-CB-CG	7.28	119.88	112.60
39	Lc	215	HIS	CA-CB-CG	7.28	121.08	113.80
69	UG	286	ILE	N-CA-CB	7.28	116.85	110.08
55	Ls	330	HIS	CA-CB-CG	7.27	121.07	113.80
45	Li	318	PHE	CA-CB-CG	7.27	121.07	113.80
33	LW	382	PHE	CA-CB-CG	7.26	121.06	113.80
50	Ln	160	HIS	CA-CB-CG	7.26	121.06	113.80
38	Lb	761	ASN	CA-CB-CG	7.25	119.86	112.60
68	UF	40	PHE	CA-CB-CG	7.25	121.06	113.80
38	Lb	413	ASN	CA-CB-CG	7.25	119.85	112.60
11	LA	149	ARG	CA-C-N	7.24	129.82	122.00
11	LA	149	ARG	C-N-CA	7.24	129.82	122.00
3	L2	101	PHE	CA-CB-CG	7.24	121.04	113.80
29	LS	30	PHE	CA-CB-CG	7.23	121.03	113.80
2	L1	430	ASN	CA-CB-CG	7.23	119.83	112.60
32	LV	511	ASN	CA-CB-CG	7.23	119.83	112.60
37	La	26	PHE	CA-CB-CG	7.23	121.03	113.80
2	L1	512	PHE	CA-CB-CG	7.23	121.03	113.80
69	UG	355	PHE	CA-CB-CG	7.22	121.02	113.80
38	Lb	789	PHE	CA-CB-CG	7.21	121.01	113.80
61	Ly	590	HIS	CA-CB-CG	7.21	121.01	113.80
28	LR	23	HIS	CA-CB-CG	7.21	121.01	113.80
39	Lc	589	HIS	CA-C-N	7.21	129.65	122.66
39	Lc	589	HIS	C-N-CA	7.21	129.65	122.66
20	LJ	297	HIS	CA-CB-CG	7.20	121.00	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
26	LP	81	THR	CA-C-N	7.20	130.95	122.89
26	LP	81	THR	C-N-CA	7.20	130.95	122.89
20	LJ	77	ASP	CA-CB-CG	7.20	119.80	112.60
39	Lc	369	ASP	CA-CB-CG	7.20	119.80	112.60
11	LA	18	HIS	CA-CB-CG	7.19	120.99	113.80
55	Ls	520	ILE	CA-C-N	7.19	130.94	122.89
55	Ls	520	ILE	C-N-CA	7.19	130.94	122.89
61	Ly	673	ASP	CA-CB-CG	7.19	119.79	112.60
15	LE	377	ASN	CA-CB-CG	7.18	119.78	112.60
20	LJ	313	ASN	CA-CB-CG	7.18	119.78	112.60
38	Lb	636	PHE	CA-CB-CG	7.18	120.98	113.80
59	Lw	20	ARG	CA-C-N	7.18	127.76	122.59
59	Lw	20	ARG	C-N-CA	7.18	127.76	122.59
8	L7	35	ASN	CA-CB-CG	7.18	119.78	112.60
20	LJ	217	ASP	CA-CB-CG	7.18	119.78	112.60
25	LO	305	HIS	CA-CB-CG	7.17	120.97	113.80
40	Ld	407	GLU	CA-C-N	7.17	128.67	119.78
40	Ld	407	GLU	C-N-CA	7.17	128.67	119.78
53	Lq	669	ASP	CA-CB-CG	7.17	119.77	112.60
12	LB	78	ASN	CA-CB-CG	7.17	119.77	112.60
38	Lb	744	ASP	CA-CB-CG	7.17	119.77	112.60
52	Lp	514	ASP	CA-CB-CG	7.17	119.77	112.60
9	L8	31	ASN	CA-CB-CG	7.17	119.77	112.60
37	La	196	PHE	CA-CB-CG	7.16	120.96	113.80
48	Ll	92	HIS	CA-CB-CG	7.16	120.96	113.80
25	LO	131	HIS	CA-CB-CG	7.16	120.96	113.80
38	Lb	455	PHE	CA-CB-CG	7.16	120.96	113.80
44	Lh	717	ASP	CA-CB-CG	7.16	119.76	112.60
51	Lo	68	PHE	CA-CB-CG	7.15	120.95	113.80
69	UG	264	HIS	CA-CB-CG	7.15	120.95	113.80
39	Lc	366	ASP	CA-CB-CG	7.15	119.75	112.60
54	Lr	138	ASP	CA-CB-CG	7.15	119.75	112.60
22	LL	209	HIS	CA-CB-CG	7.15	120.95	113.80
39	Lc	316	ASN	CA-CB-CG	7.14	119.74	112.60
55	Ls	343	ASN	CA-CB-CG	7.14	119.74	112.60
17	LG	164	PRO	CA-N-CD	-7.14	102.00	112.00
2	L1	437	ASP	CA-CB-CG	7.14	119.74	112.60
29	LS	166	ASN	CA-CB-CG	7.14	119.74	112.60
32	LV	507	PHE	CA-CB-CG	7.14	120.94	113.80
39	Lc	306	PHE	CA-CB-CG	7.14	120.94	113.80
8	L7	85	ASP	CA-CB-CG	7.13	119.73	112.60
38	Lb	593	ASP	CA-CB-CG	7.13	119.73	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ld	355	PHE	CA-CB-CG	7.13	120.93	113.80
1	L0	391	HIS	CA-CB-CG	7.13	120.93	113.80
24	LN	321	GLN	CA-C-N	7.13	130.88	122.89
24	LN	321	GLN	C-N-CA	7.13	130.88	122.89
35	LY	478	PHE	CA-CB-CG	7.13	120.93	113.80
23	LM	77	PHE	CA-CB-CG	7.13	120.93	113.80
35	LY	520	HIS	CA-CB-CG	7.13	120.93	113.80
45	Li	478	HIS	CA-CB-CG	7.12	120.92	113.80
53	Lq	152	PHE	CA-CB-CG	7.12	120.92	113.80
1	L0	347	HIS	CA-CB-CG	7.12	120.92	113.80
9	L8	165	ASN	CA-CB-CG	7.12	119.72	112.60
38	Lb	688	HIS	CA-CB-CG	7.11	120.91	113.80
43	Lg	210	ASP	CA-CB-CG	7.11	119.71	112.60
22	LL	225	PHE	CA-CB-CG	7.11	120.91	113.80
47	Lk	400	PHE	CA-CB-CG	7.10	120.90	113.80
1	L0	626	HIS	CA-CB-CG	7.10	120.90	113.80
25	LO	17	PHE	CA-CB-CG	7.10	120.90	113.80
21	LK	121	ASP	CA-CB-CG	7.10	119.70	112.60
48	Ll	10	HIS	CA-CB-CG	7.10	120.90	113.80
8	L7	30	ILE	CA-C-N	7.10	129.86	121.84
8	L7	30	ILE	C-N-CA	7.10	129.86	121.84
39	Lc	579	GLU	CA-C-N	7.10	131.24	122.37
39	Lc	579	GLU	C-N-CA	7.10	131.24	122.37
61	Ly	329	PHE	CA-CB-CG	7.10	120.90	113.80
25	LO	247	LEU	CA-C-N	7.10	131.88	122.30
25	LO	247	LEU	C-N-CA	7.10	131.88	122.30
57	Lu	296	PHE	CA-CB-CG	7.09	120.89	113.80
9	L8	92	PHE	CA-CB-CG	7.09	120.89	113.80
14	LD	388	PHE	CA-CB-CG	7.09	120.89	113.80
40	Ld	525	ASN	CA-CB-CG	7.09	119.69	112.60
38	Lb	608	PHE	CA-CB-CG	7.09	120.89	113.80
44	Lh	548	HIS	CA-CB-CG	7.09	120.89	113.80
49	Lm	268	ASP	CA-CB-CG	7.09	119.69	112.60
61	Ly	547	ILE	CA-C-N	7.09	129.56	120.70
61	Ly	547	ILE	C-N-CA	7.09	129.56	120.70
1	L0	333	PHE	CA-CB-CG	7.08	120.88	113.80
52	Lp	611	ASP	CA-CB-CG	7.08	119.68	112.60
46	Lj	120	ASN	CA-CB-CG	7.08	119.68	112.60
56	Lt	100	PHE	CA-CB-CG	7.07	120.87	113.80
32	LV	1083	ASP	CA-CB-CG	7.07	119.67	112.60
44	Lh	302	PHE	CA-CB-CG	7.07	120.87	113.80
35	LY	391	ASP	CA-CB-CG	7.07	119.67	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	LC	243	ASP	CA-CB-CG	7.07	119.67	112.60
31	LU	268	ASP	CA-CB-CG	7.07	119.67	112.60
42	Lf	352	ASP	CA-CB-CG	7.07	119.67	112.60
35	LY	306	ASN	CA-CB-CG	7.07	119.67	112.60
2	L1	430	ASN	CA-C-N	7.06	129.98	122.14
2	L1	430	ASN	C-N-CA	7.06	129.98	122.14
38	Lb	420	ASP	CA-CB-CG	7.06	119.66	112.60
54	Lr	101	HIS	CA-CB-CG	7.06	120.86	113.80
32	LV	602	HIS	CA-CB-CG	7.06	120.86	113.80
61	Ly	361	ASN	CA-CB-CG	7.06	119.66	112.60
3	L2	46	ASP	CA-CB-CG	7.06	119.66	112.60
45	Li	357	PHE	CA-CB-CG	7.06	120.86	113.80
64	UB	228	THR	CA-C-N	7.05	128.62	121.35
64	UB	228	THR	C-N-CA	7.05	128.62	121.35
13	LC	467	ASN	CA-CB-CG	7.05	119.65	112.60
38	Lb	870	ASN	CA-CB-CG	7.05	119.65	112.60
38	Lb	426	ILE	N-CA-CB	7.05	115.95	110.45
35	LY	450	MET	CA-C-N	7.05	129.66	122.96
35	LY	450	MET	C-N-CA	7.05	129.66	122.96
24	LN	275	PHE	CA-CB-CG	7.04	120.84	113.80
1	L0	350	ASP	CA-CB-CG	7.04	119.64	112.60
22	LL	294	ASN	CA-CB-CG	7.04	119.64	112.60
35	LY	475	HIS	CA-CB-CG	7.04	120.84	113.80
38	Lb	294	PHE	CA-CB-CG	7.04	120.84	113.80
38	Lb	488	ASN	CA-CB-CG	7.04	119.64	112.60
9	L8	245	PHE	CA-CB-CG	7.04	120.84	113.80
25	LO	10	ASN	CA-CB-CG	7.04	119.64	112.60
61	Ly	374	PHE	CA-CB-CG	7.04	120.84	113.80
1	L0	362	PHE	CA-CB-CG	7.04	120.84	113.80
62	Lz	216	ASN	CA-CB-CG	7.04	119.64	112.60
20	LJ	366	ASN	CA-CB-CG	7.03	119.63	112.60
13	LC	449	ASN	CA-CB-CG	7.03	119.63	112.60
22	LL	299	ASN	CA-CB-CG	7.03	119.63	112.60
24	LN	351	PHE	CA-CB-CG	7.03	120.83	113.80
45	Li	285	ASP	CA-CB-CG	7.03	119.63	112.60
33	LW	370	ASP	CA-CB-CG	7.03	119.63	112.60
49	Lm	288	ASP	CA-CB-CG	7.03	119.62	112.60
49	Lm	371	ASN	CA-CB-CG	7.02	119.62	112.60
11	LA	114	HIS	CA-CB-CG	7.02	120.82	113.80
20	LJ	151	ASP	CA-CB-CG	7.02	119.62	112.60
33	LW	386	ASN	CA-CB-CG	7.02	119.62	112.60
38	Lb	382	ASP	CA-CB-CG	7.02	119.62	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L0	377	HIS	CA-CB-CG	7.02	120.82	113.80
22	LL	947	HIS	CA-CB-CG	7.01	120.81	113.80
59	Lw	165	ASN	CA-CB-CG	7.01	119.61	112.60
28	LR	128	ASP	CA-CB-CG	7.01	119.61	112.60
45	Li	534	HIS	CA-CB-CG	7.01	120.81	113.80
38	Lb	451	ASP	CA-CB-CG	7.00	119.60	112.60
62	Lz	188	PHE	CA-CB-CG	7.00	120.80	113.80
22	LL	315	HIS	CA-CB-CG	7.00	120.80	113.80
29	LS	27	PHE	CA-CB-CG	7.00	120.80	113.80
59	Lw	4	PHE	CA-CB-CG	7.00	120.80	113.80
64	UB	378	ASN	CA-CB-CG	7.00	119.60	112.60
65	UC	295	HIS	CA-CB-CG	7.00	120.80	113.80
39	Lc	425	PHE	CA-CB-CG	7.00	120.80	113.80
49	Lm	328	ASP	CA-CB-CG	7.00	119.59	112.60
39	Lc	220	ASP	CA-CB-CG	6.99	119.59	112.60
50	Ln	136	HIS	CA-CB-CG	6.99	120.79	113.80
59	Lw	108	PRO	N-CD-CG	-6.99	92.72	103.20
20	LJ	323	ASP	CA-CB-CG	6.99	119.59	112.60
25	LO	157	ASP	CA-CB-CG	6.99	119.59	112.60
44	Lh	718	HIS	CA-CB-CG	6.99	120.79	113.80
43	Lg	142	PHE	CA-CB-CG	6.99	120.79	113.80
25	LO	8	HIS	CA-CB-CG	6.98	120.78	113.80
38	Lb	643	ASP	CA-CB-CG	6.98	119.58	112.60
40	Ld	559	ASN	CA-CB-CG	6.98	119.58	112.60
45	Li	276	ASP	CA-CB-CG	6.98	119.58	112.60
69	UG	302	ASN	CA-CB-CG	6.98	119.58	112.60
16	LF	185	HIS	CA-CB-CG	6.98	120.78	113.80
40	Ld	366	ASP	CA-CB-CG	6.98	119.58	112.60
45	Li	281	ASP	CA-CB-CG	6.98	119.58	112.60
45	Li	602	ASP	CA-CB-CG	6.97	119.57	112.60
62	Lz	157	PHE	CA-CB-CG	6.97	120.78	113.80
33	LW	363	PHE	CA-CB-CG	6.97	120.77	113.80
20	LJ	276	ASN	CA-CB-CG	6.97	119.57	112.60
38	Lb	401	ASN	CA-CB-CG	6.97	119.57	112.60
24	LN	245	ASP	CA-CB-CG	6.97	119.57	112.60
26	LP	126	ASP	CA-CB-CG	6.97	119.57	112.60
38	Lb	364	HIS	CA-CB-CG	6.97	120.77	113.80
38	Lb	594	PHE	CA-CB-CG	6.97	120.77	113.80
40	Ld	503	ASP	CA-CB-CG	6.97	119.57	112.60
55	Ls	420	ASP	CA-CB-CG	6.97	119.57	112.60
2	L1	491	ASN	CA-CB-CG	6.96	119.56	112.60
28	LR	68	ASN	CA-CB-CG	6.96	119.56	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
29	LS	13	ASN	CA-CB-CG	6.96	119.56	112.60
53	Lq	552	ASP	CA-CB-CG	6.96	119.56	112.60
53	Lq	696	ASP	CA-CB-CG	6.96	119.56	112.60
57	Lu	417	GLY	CA-C-N	6.96	129.79	122.97
57	Lu	417	GLY	C-N-CA	6.96	129.79	122.97
62	Lz	235	ASN	CA-CB-CG	6.96	119.56	112.60
38	Lb	433	PHE	CA-CB-CG	6.96	120.75	113.80
13	LC	114	ASN	CA-CB-CG	6.95	119.55	112.60
40	Ld	371	PHE	CA-CB-CG	6.95	120.75	113.80
55	Ls	346	PHE	CA-CB-CG	6.95	120.75	113.80
24	LN	335	ASN	CA-CB-CG	6.95	119.55	112.60
43	Lg	179	ASP	CA-CB-CG	6.95	119.55	112.60
41	Le	469	ASN	CA-CB-CG	6.95	119.55	112.60
42	Lf	173	PHE	CA-CB-CG	6.94	120.74	113.80
20	LJ	277	PHE	CA-CB-CG	6.94	120.74	113.80
26	LP	128	HIS	CA-CB-CG	6.94	120.74	113.80
40	Ld	334	PHE	CA-CB-CG	6.94	120.74	113.80
40	Ld	349	ASN	CA-CB-CG	6.94	119.54	112.60
26	LP	126	ASP	CA-C-N	6.94	130.11	121.85
26	LP	126	ASP	C-N-CA	6.94	130.11	121.85
47	Lk	465	PHE	CA-CB-CG	6.94	120.74	113.80
20	LJ	84	PHE	CA-CB-CG	6.94	120.74	113.80
12	LB	9	PHE	CA-CB-CG	6.93	120.73	113.80
21	LK	122	ASN	CA-CB-CG	6.93	119.53	112.60
23	LM	41	ASN	CA-CB-CG	6.93	119.53	112.60
57	Lu	384	ASP	CA-CB-CG	6.93	119.53	112.60
4	L3	435	ASN	CA-CB-CG	6.93	119.53	112.60
26	LP	273	ASP	CA-CB-CG	6.93	119.53	112.60
59	Lw	113	PHE	CA-CB-CG	6.93	120.73	113.80
9	L8	227	ASP	CA-CB-CG	6.93	119.53	112.60
33	LW	424	ASP	CA-CB-CG	6.93	119.53	112.60
43	Lg	174	ASP	CA-CB-CG	6.93	119.53	112.60
41	Le	633	ASP	CA-CB-CG	6.93	119.53	112.60
27	LQ	378	ASN	CA-CB-CG	6.93	119.53	112.60
43	Lg	33	ASP	CA-CB-CG	6.93	119.53	112.60
22	LL	290	ASN	CA-CB-CG	6.92	119.52	112.60
25	LO	302	ASP	CA-CB-CG	6.92	119.53	112.60
41	Le	560	ASN	CA-CB-CG	6.92	119.52	112.60
51	Lo	99	ASP	CA-CB-CG	6.92	119.53	112.60
61	Ly	327	ASN	CA-CB-CG	6.92	119.53	112.60
22	LL	247	ASN	CA-CB-CG	6.92	119.52	112.60
44	Lh	539	ASN	CA-CB-CG	6.92	119.52	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ld	471	ASN	CA-CB-CG	6.92	119.52	112.60
37	La	84	PRO	CA-C-N	6.92	130.64	122.89
37	La	84	PRO	C-N-CA	6.92	130.64	122.89
41	Le	525	ASP	CA-CB-CG	6.92	119.52	112.60
41	Le	612	PHE	CA-CB-CG	6.92	120.72	113.80
44	Lh	362	PHE	CA-CB-CG	6.92	120.72	113.80
1	L0	576	ASP	CA-CB-CG	6.92	119.52	112.60
63	UA	307	PHE	CA-CB-CG	6.91	120.71	113.80
9	L8	166	HIS	CA-CB-CG	6.91	120.71	113.80
38	Lb	750	ASP	CA-CB-CG	6.91	119.51	112.60
41	Le	535	ASN	CA-CB-CG	6.91	119.51	112.60
49	Lm	330	ALA	CA-C-N	6.91	130.00	121.71
49	Lm	330	ALA	C-N-CA	6.91	130.00	121.71
54	Lr	87	ASN	CA-CB-CG	6.91	119.51	112.60
22	LL	284	ASN	CA-CB-CG	6.91	119.51	112.60
61	Ly	325	ASP	CA-CB-CG	6.90	119.50	112.60
11	LA	156	ASN	CA-CB-CG	6.90	119.50	112.60
20	LJ	174	PHE	CA-CB-CG	6.90	120.70	113.80
22	LL	385	HIS	CA-CB-CG	6.90	120.70	113.80
50	Ln	152	ASP	CA-CB-CG	6.90	119.50	112.60
23	LM	74	ASN	CA-CB-CG	6.90	119.50	112.60
48	Ll	23	ASN	CA-CB-CG	6.90	119.50	112.60
60	Lx	369	ASP	CA-CB-CG	6.90	119.50	112.60
31	LU	275	ASP	CA-CB-CG	6.90	119.50	112.60
40	Ld	436	ASP	CA-CB-CG	6.90	119.50	112.60
61	Ly	633	ASP	CA-CB-CG	6.90	119.50	112.60
33	LW	500	ASP	CA-CB-CG	6.89	119.50	112.60
42	Lf	194	ASN	CA-CB-CG	6.89	119.49	112.60
56	Lt	122	GLU	CA-CB-CG	6.89	127.88	114.10
33	LW	285	ASP	CA-CB-CG	6.89	119.49	112.60
5	L4	534	ASP	CA-CB-CG	6.89	119.49	112.60
50	Ln	130	ASN	CA-CB-CG	6.89	119.49	112.60
64	UB	374	ASP	CA-CB-CG	6.89	119.49	112.60
55	Ls	404	PHE	CA-CB-CG	6.89	120.69	113.80
57	Lu	414	ASP	CA-CB-CG	6.89	119.49	112.60
5	L4	591	ASN	CA-CB-CG	6.88	119.48	112.60
20	LJ	54	ASP	CA-CB-CG	6.88	119.48	112.60
38	Lb	588	ASP	CA-CB-CG	6.88	119.48	112.60
53	Lq	184	HIS	CA-CB-CG	6.88	120.68	113.80
19	LI	53	ASN	CA-CB-CG	6.88	119.48	112.60
48	Ll	30	PHE	CA-CB-CG	6.88	120.68	113.80
51	Lo	301	ASP	CA-CB-CG	6.88	119.48	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	Lr	186	PHE	CA-CB-CG	6.88	120.68	113.80
9	L8	8	ASN	CA-CB-CG	6.88	119.48	112.60
27	LQ	413	ASP	CA-CB-CG	6.88	119.48	112.60
53	Lq	664	PHE	CA-CB-CG	6.88	120.68	113.80
1	L0	306	PHE	CA-CB-CG	6.87	120.67	113.80
18	LH	193	ASN	CA-CB-CG	6.87	119.47	112.60
5	L4	278	HIS	CA-CB-CG	6.87	120.67	113.80
11	LA	150	ASN	CA-CB-CG	6.87	119.47	112.60
20	LJ	112	PHE	CA-CB-CG	6.87	120.67	113.80
20	LJ	179	ASN	CA-CB-CG	6.87	119.47	112.60
29	LS	93	ASN	CA-CB-CG	6.87	119.47	112.60
39	Lc	575	LYS	CA-C-N	6.87	131.71	123.19
39	Lc	575	LYS	C-N-CA	6.87	131.71	123.19
29	LS	100	ASN	CA-CB-CG	6.87	119.47	112.60
36	LZ	43	HIS	CA-CB-CG	6.87	120.67	113.80
27	LQ	406	ASN	CA-CB-CG	6.87	119.47	112.60
39	Lc	460	HIS	CA-CB-CG	6.87	120.67	113.80
52	Lp	380	HIS	CA-CB-CG	6.87	120.67	113.80
22	LL	233	PHE	CA-CB-CG	6.86	120.66	113.80
53	Lq	697	HIS	CA-CB-CG	6.86	120.66	113.80
54	Lr	63	PHE	CA-CB-CG	6.86	120.66	113.80
48	Ll	137	LYS	CA-C-N	6.86	129.81	122.26
48	Ll	137	LYS	C-N-CA	6.86	129.81	122.26
25	LO	112	ASN	CA-CB-CG	6.86	119.46	112.60
39	Lc	539	ASN	CA-CB-CG	6.86	119.46	112.60
54	Lr	178	ASP	CA-CB-CG	6.86	119.46	112.60
38	Lb	295	ASN	CA-CB-CG	6.86	119.45	112.60
38	Lb	996	ASP	CA-CB-CG	6.86	119.46	112.60
62	Lz	173	HIS	CA-CB-CG	6.86	120.66	113.80
49	Lm	252	PHE	CA-CB-CG	6.85	120.65	113.80
35	LY	503	HIS	CA-CB-CG	6.85	120.65	113.80
52	Lp	546	PHE	CA-CB-CG	6.85	120.65	113.80
3	L2	78	PHE	CA-CB-CG	6.85	120.65	113.80
13	LC	240	HIS	CA-CB-CG	6.85	120.65	113.80
28	LR	60	ASN	CA-CB-CG	6.85	119.45	112.60
5	L4	594	PHE	CA-CB-CG	6.85	120.65	113.80
12	LB	97	PHE	CA-CB-CG	6.85	120.65	113.80
63	UA	238	ASN	CA-CB-CG	6.85	119.45	112.60
64	UB	301	ASP	CA-CB-CG	6.85	119.45	112.60
20	LJ	416	ASN	CA-CB-CG	6.84	119.44	112.60
21	LK	150	ASP	CA-CB-CG	6.84	119.44	112.60
33	LW	216	ASP	CA-CB-CG	6.84	119.44	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	Lt	114	HIS	CA-CB-CG	6.84	120.64	113.80
12	LB	16	ARG	CA-C-N	6.84	126.49	119.92
12	LB	16	ARG	C-N-CA	6.84	126.49	119.92
40	Ld	500	HIS	CA-CB-CG	6.84	120.64	113.80
43	Lg	201	ASP	CA-CB-CG	6.84	119.44	112.60
49	Lm	257	HIS	CA-CB-CG	6.84	120.64	113.80
21	LK	162	HIS	CA-CB-CG	6.84	120.64	113.80
38	Lb	893	ASP	CA-CB-CG	6.84	119.44	112.60
9	L8	119	ASP	CA-CB-CG	6.84	119.44	112.60
52	Lp	696	ASP	CA-CB-CG	6.84	119.44	112.60
5	L4	199	ASN	CA-CB-CG	6.83	119.44	112.60
24	LN	314	ASP	CA-CB-CG	6.83	119.44	112.60
34	LX	126	ASP	CA-CB-CG	6.83	119.44	112.60
33	LW	362	VAL	CA-C-N	6.83	131.72	122.84
33	LW	362	VAL	C-N-CA	6.83	131.72	122.84
44	Lh	395	ASP	CA-C-N	6.83	129.98	123.08
44	Lh	395	ASP	C-N-CA	6.83	129.98	123.08
52	Lp	467	ASP	CA-CB-CG	6.83	119.43	112.60
54	Lr	144	ASP	CA-CB-CG	6.83	119.43	112.60
61	Ly	609	ASP	CA-CB-CG	6.83	119.43	112.60
45	Li	569	HIS	CA-CB-CG	6.83	120.63	113.80
25	LO	270	ASN	CA-CB-CG	6.83	119.43	112.60
32	LV	1086	ASP	CA-CB-CG	6.83	119.43	112.60
27	LQ	377	ASN	CA-CB-CG	6.83	119.43	112.60
37	La	165	ASN	CA-CB-CG	6.83	119.43	112.60
56	Lt	108	HIS	CA-CB-CG	6.83	120.63	113.80
38	Lb	379	ASP	CA-CB-CG	6.83	119.42	112.60
41	Le	508	ASN	CA-CB-CG	6.83	119.42	112.60
53	Lq	132	HIS	CA-CB-CG	6.82	120.62	113.80
11	LA	186	HIS	CA-CB-CG	6.82	120.62	113.80
49	Lm	332	ASP	CA-CB-CG	6.82	119.42	112.60
39	Lc	301	HIS	CA-CB-CG	6.82	120.62	113.80
56	Lt	121	HIS	CA-CB-CG	6.82	120.62	113.80
56	Lt	221	PHE	CA-CB-CG	6.82	120.62	113.80
59	Lw	144	ASN	CA-CB-CG	6.82	119.42	112.60
25	LO	49	PHE	CA-CB-CG	6.81	120.61	113.80
2	L1	454	ASP	CA-CB-CG	6.81	119.41	112.60
44	Lh	541	ASN	CA-CB-CG	6.81	119.41	112.60
53	Lq	126	PHE	CA-CB-CG	6.81	120.61	113.80
57	Lu	260	HIS	CA-CB-CG	6.81	120.61	113.80
15	LE	696	LEU	CA-C-N	6.81	129.25	123.33
15	LE	696	LEU	C-N-CA	6.81	129.25	123.33

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	Lk	398	PHE	CA-CB-CG	6.81	120.61	113.80
25	LO	113	HIS	CA-CB-CG	6.81	120.61	113.80
44	Lh	564	ASN	CA-CB-CG	6.81	119.41	112.60
53	Lq	692	PHE	CA-CB-CG	6.81	120.61	113.80
69	UG	270	HIS	CA-CB-CG	6.81	120.61	113.80
69	UG	342	ASN	CA-CB-CG	6.81	119.41	112.60
31	LU	264	HIS	CA-CB-CG	6.80	120.60	113.80
38	Lb	871	TYR	CA-C-N	6.80	130.33	122.85
38	Lb	871	TYR	C-N-CA	6.80	130.33	122.85
35	LY	542	PHE	CA-CB-CG	6.80	120.60	113.80
40	Ld	522	ASP	CA-CB-CG	6.80	119.40	112.60
41	Le	625	ASN	CA-CB-CG	6.80	119.40	112.60
14	LD	491	ASP	CA-CB-CG	6.80	119.40	112.60
52	Lp	481	PRO	CA-C-N	6.80	130.73	122.16
52	Lp	481	PRO	C-N-CA	6.80	130.73	122.16
22	LL	386	ASP	CA-CB-CG	6.80	119.40	112.60
52	Lp	504	HIS	CA-CB-CG	6.80	120.60	113.80
14	LD	384	ASP	CA-CB-CG	6.79	119.39	112.60
4	L3	662	HIS	CA-CB-CG	6.79	120.59	113.80
14	LD	391	PHE	CA-CB-CG	6.79	120.59	113.80
44	Lh	492	PHE	CA-CB-CG	6.79	120.59	113.80
1	L0	400	ASP	CA-CB-CG	6.79	119.39	112.60
14	LD	378	ASN	CA-CB-CG	6.79	119.39	112.60
44	Lh	698	ASP	CA-CB-CG	6.79	119.39	112.60
47	Lk	447	ASN	CA-CB-CG	6.79	119.39	112.60
40	Ld	460	HIS	CA-CB-CG	6.79	120.59	113.80
39	Lc	334	PHE	CA-CB-CG	6.79	120.59	113.80
61	Ly	377	ASN	CA-CB-CG	6.79	119.39	112.60
37	La	202	ASN	CA-CB-CG	6.78	119.38	112.60
39	Lc	623	PHE	CA-CB-CG	6.78	120.58	113.80
39	Lc	330	ASP	CA-CB-CG	6.78	119.38	112.60
43	Lg	24	ASP	CA-CB-CG	6.78	119.38	112.60
49	Lm	323	ASN	CA-CB-CG	6.78	119.38	112.60
68	UF	26	ASP	CA-CB-CG	6.78	119.38	112.60
29	LS	85	ASN	CA-CB-CG	6.78	119.38	112.60
52	Lp	472	ASN	CA-CB-CG	6.78	119.38	112.60
64	UB	343	PHE	CA-CB-CG	6.78	120.58	113.80
14	LD	338	HIS	CA-CB-CG	6.78	120.58	113.80
19	LI	50	PHE	CA-CB-CG	6.78	120.58	113.80
25	LO	139	ASP	CA-CB-CG	6.78	119.38	112.60
4	L3	723	ASP	CA-CB-CG	6.77	119.37	112.60
35	LY	446	PHE	CA-CB-CG	6.77	120.57	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	La	80	ASP	CA-CB-CG	6.77	119.37	112.60
38	Lb	349	ASP	CA-CB-CG	6.77	119.37	112.60
1	L0	290	ASP	CA-CB-CG	6.77	119.37	112.60
27	LQ	371	ASN	CA-CB-CG	6.77	119.37	112.60
59	Lw	116	PHE	CA-CB-CG	6.77	120.57	113.80
26	LP	188	VAL	CA-C-N	6.77	130.83	122.37
26	LP	188	VAL	C-N-CA	6.77	130.83	122.37
36	LZ	62	ASP	CA-CB-CG	6.77	119.37	112.60
56	Lt	252	ASN	CA-CB-CG	6.77	119.37	112.60
39	Lc	482	PHE	CA-CB-CG	6.77	120.57	113.80
38	Lb	836	ASP	CA-CB-CG	6.76	119.36	112.60
4	L3	414	ASP	CA-CB-CG	6.76	119.36	112.60
45	Li	278	ASP	CA-CB-CG	6.76	119.36	112.60
45	Li	699	ASP	CA-CB-CG	6.76	119.36	112.60
11	LA	111	ASN	CA-CB-CG	6.76	119.36	112.60
24	LN	339	ASN	CA-CB-CG	6.76	119.36	112.60
35	LY	394	ASP	CA-CB-CG	6.76	119.36	112.60
43	Lg	44	ASN	CA-CB-CG	6.76	119.36	112.60
16	LF	183	PHE	CA-CB-CG	6.76	120.56	113.80
48	Ll	99	ASN	CA-CB-CG	6.75	119.36	112.60
36	LZ	56	ASN	CA-CB-CG	6.75	119.35	112.60
40	Ld	316	ASN	CA-C-N	6.75	129.33	120.28
40	Ld	316	ASN	C-N-CA	6.75	129.33	120.28
25	LO	201	ASN	CA-CB-CG	6.75	119.35	112.60
29	LS	123	ASP	CA-CB-CG	6.75	119.35	112.60
57	Lu	280	PHE	CA-CB-CG	6.75	120.55	113.80
26	LP	184	ASP	CA-CB-CG	6.75	119.35	112.60
39	Lc	589	HIS	CA-CB-CG	6.75	120.55	113.80
47	Lk	532	ASP	CA-CB-CG	6.75	119.35	112.60
53	Lq	650	HIS	CA-CB-CG	6.75	120.55	113.80
37	La	111	ALA	CA-C-N	6.74	129.89	123.08
37	La	111	ALA	C-N-CA	6.74	129.89	123.08
39	Lc	367	ASN	CA-CB-CG	6.74	119.34	112.60
18	LH	254	ASP	CA-CB-CG	6.74	119.34	112.60
48	Ll	32	PHE	CA-CB-CG	6.74	120.54	113.80
53	Lq	559	ASP	CA-CB-CG	6.74	119.34	112.60
39	Lc	453	ASP	CA-CB-CG	6.74	119.34	112.60
40	Ld	546	ASP	CA-CB-CG	6.74	119.34	112.60
11	LA	39	ASN	CA-CB-CG	6.74	119.34	112.60
38	Lb	293	ASN	CA-CB-CG	6.74	119.33	112.60
55	Ls	525	PHE	CA-CB-CG	6.74	120.54	113.80
18	LH	252	ASN	CA-CB-CG	6.73	119.33	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	LL	282	ASN	CA-CB-CG	6.73	119.33	112.60
29	LS	118	ASN	CA-CB-CG	6.73	119.33	112.60
48	Ll	134	PHE	CA-CB-CG	6.73	120.53	113.80
4	L3	425	ASP	CA-CB-CG	6.73	119.33	112.60
44	Lh	516	HIS	CA-CB-CG	6.73	120.53	113.80
1	L0	472	PHE	CA-CB-CG	6.73	120.53	113.80
55	Ls	360	ASN	CA-CB-CG	6.73	119.33	112.60
38	Lb	627	PHE	CA-CB-CG	6.72	120.52	113.80
38	Lb	851	ASP	CA-CB-CG	6.72	119.32	112.60
35	LY	490	ASP	CA-CB-CG	6.72	119.32	112.60
12	LB	64	SER	CA-C-N	6.72	129.26	122.00
12	LB	64	SER	C-N-CA	6.72	129.26	122.00
67	UE	182	PHE	CA-CB-CG	6.72	120.52	113.80
1	L0	467	PHE	CA-CB-CG	6.72	120.52	113.80
5	L4	318	ASP	CA-CB-CG	6.72	119.32	112.60
29	LS	50	ASP	CA-CB-CG	6.71	119.31	112.60
67	UE	137	HIS	CA-CB-CG	6.71	120.52	113.80
21	LK	70	ASP	CA-CB-CG	6.71	119.31	112.60
29	LS	61	ASP	CA-CB-CG	6.71	119.31	112.60
36	LZ	26	PHE	CA-CB-CG	6.71	120.51	113.80
44	Lh	684	ASN	CA-CB-CG	6.71	119.31	112.60
49	Lm	342	ASP	CA-CB-CG	6.71	119.31	112.60
61	Ly	616	ASP	CA-CB-CG	6.71	119.31	112.60
25	LO	243	HIS	CA-CB-CG	6.71	120.51	113.80
47	Lk	506	PHE	CA-CB-CG	6.71	120.51	113.80
52	Lp	412	ASP	CA-CB-CG	6.71	119.31	112.60
41	Le	514	ASP	CA-CB-CG	6.70	119.30	112.60
54	Lr	105	ASP	CA-CB-CG	6.70	119.30	112.60
33	LW	469	HIS	CA-CB-CG	6.70	120.50	113.80
39	Lc	218	ASP	CA-CB-CG	6.70	119.30	112.60
1	L0	621	ASP	CA-CB-CG	6.70	119.30	112.60
42	Lf	174	PHE	CA-CB-CG	6.70	120.50	113.80
1	L0	384	ASN	CA-CB-CG	6.69	119.29	112.60
60	Lx	340	PHE	CA-CB-CG	6.69	120.49	113.80
1	L0	544	ASN	CA-CB-CG	6.69	119.29	112.60
53	Lq	247	PHE	CA-CB-CG	6.69	120.49	113.80
55	Ls	337	PHE	CA-CB-CG	6.69	120.49	113.80
1	L0	399	ASP	CA-CB-CG	6.69	119.29	112.60
20	LJ	32	PHE	CA-CB-CG	6.69	120.49	113.80
35	LY	307	PHE	CA-CB-CG	6.69	120.49	113.80
24	LN	309	PHE	CA-CB-CG	6.69	120.49	113.80
45	Li	688	HIS	CA-CB-CG	6.68	120.48	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	473	ASN	CA-CB-CG	6.68	119.28	112.60
11	LA	107	VAL	CA-C-N	6.68	131.47	123.19
11	LA	107	VAL	C-N-CA	6.68	131.47	123.19
51	Lo	121	ASN	CA-CB-CG	6.68	119.28	112.60
59	Lw	149	HIS	CA-CB-CG	6.68	120.48	113.80
64	UB	388	ASP	CA-CB-CG	6.68	119.28	112.60
51	Lo	272	ASP	CA-CB-CG	6.67	119.28	112.60
14	LD	494	HIS	CA-CB-CG	6.67	120.47	113.80
36	LZ	30	ASN	CA-CB-CG	6.67	119.27	112.60
49	Lm	403	ASP	CA-CB-CG	6.67	119.27	112.60
39	Lc	454	HIS	CA-CB-CG	6.67	120.47	113.80
35	LY	402	HIS	CA-CB-CG	6.67	120.47	113.80
44	Lh	701	ASP	CA-CB-CG	6.67	119.27	112.60
61	Ly	350	PHE	CA-CB-CG	6.67	120.47	113.80
20	LJ	76	HIS	CA-CB-CG	6.67	120.47	113.80
39	Lc	465	PHE	CA-CB-CG	6.67	120.47	113.80
20	LJ	227	ASP	CA-CB-CG	6.66	119.26	112.60
33	LW	470	ASN	CA-CB-CG	6.66	119.26	112.60
61	Ly	451	ASN	CA-CB-CG	6.66	119.26	112.60
21	LK	253	PHE	CA-CB-CG	6.66	120.46	113.80
39	Lc	393	ASN	CA-CB-CG	6.66	119.26	112.60
21	LK	252	ASP	CA-CB-CG	6.66	119.26	112.60
13	LC	260	PHE	CA-CB-CG	6.66	120.46	113.80
39	Lc	337	ASP	CA-CB-CG	6.66	119.26	112.60
40	Ld	367	ASN	CA-CB-CG	6.66	119.25	112.60
10	L9	465	PHE	CA-CB-CG	6.65	120.45	113.80
64	UB	338	ASN	CA-CB-CG	6.65	119.25	112.60
39	Lc	581	ASP	CA-CB-CG	6.65	119.25	112.60
25	LO	244	PHE	CA-CB-CG	6.65	120.45	113.80
38	Lb	356	HIS	CA-CB-CG	6.65	120.45	113.80
44	Lh	512	HIS	CA-CB-CG	6.65	120.45	113.80
64	UB	383	ASP	CA-CB-CG	6.65	119.25	112.60
9	L8	70	ASN	CA-CB-CG	6.64	119.25	112.60
41	Le	426	ASP	CA-CB-CG	6.64	119.24	112.60
49	Lm	419	ASP	CA-CB-CG	6.64	119.24	112.60
49	Lm	346	ASN	CA-CB-CG	6.64	119.24	112.60
39	Lc	329	ASP	CA-CB-CG	6.63	119.23	112.60
43	Lg	49	ASP	CA-CB-CG	6.63	119.23	112.60
22	LL	148	HIS	CA-CB-CG	6.63	120.43	113.80
35	LY	405	ASN	CA-CB-CG	6.63	119.23	112.60
61	Ly	544	ASP	CA-CB-CG	6.63	119.23	112.60
61	Ly	585	PHE	CA-CB-CG	6.63	120.43	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
62	Lz	202	HIS	CA-CB-CG	6.63	120.43	113.80
66	UD	196	ASN	CA-CB-CG	6.63	119.23	112.60
9	L8	28	HIS	CA-CB-CG	6.63	120.43	113.80
39	Lc	607	ASP	CA-CB-CG	6.63	119.23	112.60
61	Ly	598	ASP	CA-CB-CG	6.63	119.23	112.60
69	UG	391	ASP	CA-CB-CG	6.63	119.23	112.60
39	Lc	426	PRO	CA-C-N	6.63	129.14	120.26
39	Lc	426	PRO	C-N-CA	6.63	129.14	120.26
25	LO	98	PHE	CA-CB-CG	6.62	120.42	113.80
3	L2	202	ASP	CA-CB-CG	6.62	119.22	112.60
11	LA	23	ASN	CA-CB-CG	6.62	119.22	112.60
33	LW	298	ASP	CA-CB-CG	6.62	119.22	112.60
33	LW	429	ASN	CA-CB-CG	6.62	119.22	112.60
38	Lb	872	PHE	CA-CB-CG	6.62	120.42	113.80
51	Lo	300	PHE	CA-CB-CG	6.62	120.42	113.80
57	Lu	385	ASN	CA-CB-CG	6.62	119.22	112.60
64	UB	269	ASN	CA-CB-CG	6.62	119.22	112.60
2	L1	438	HIS	CA-CB-CG	6.62	120.42	113.80
3	L2	199	ASP	CA-CB-CG	6.62	119.22	112.60
36	LZ	65	ASP	CA-CB-CG	6.62	119.22	112.60
32	LV	593	HIS	CA-CB-CG	6.62	120.42	113.80
41	Le	563	PHE	CA-CB-CG	6.62	120.42	113.80
5	L4	554	PHE	CA-CB-CG	6.62	120.42	113.80
18	LH	256	PHE	CA-CB-CG	6.62	120.42	113.80
48	Ll	34	HIS	CA-CB-CG	6.62	120.42	113.80
53	Lq	667	HIS	CA-CB-CG	6.62	120.42	113.80
61	Ly	574	PHE	CA-CB-CG	6.61	120.41	113.80
25	LO	241	ASP	CA-CB-CG	6.61	119.21	112.60
46	Lj	48	PHE	CA-CB-CG	6.61	120.41	113.80
39	Lc	525	ASN	CA-CB-CG	6.61	119.21	112.60
22	LL	520	ASP	CA-CB-CG	6.61	119.21	112.60
11	LA	130	ASP	CA-CB-CG	6.61	119.21	112.60
24	LN	295	ASN	CA-CB-CG	6.61	119.21	112.60
25	LO	99	ARG	CA-C-N	6.61	129.69	121.83
25	LO	99	ARG	C-N-CA	6.61	129.69	121.83
39	Lc	371	PHE	CA-CB-CG	6.61	120.41	113.80
61	Ly	599	ARG	CA-C-N	6.61	130.92	122.93
61	Ly	599	ARG	C-N-CA	6.61	130.92	122.93
56	Lt	112	ASP	CA-CB-CG	6.60	119.20	112.60
31	LU	297	HIS	CA-CB-CG	6.60	120.40	113.80
39	Lc	321	ASN	CA-CB-CG	6.60	119.20	112.60
33	LW	480	PHE	CA-CB-CG	6.60	120.40	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	Lp	474	PHE	CA-CB-CG	6.60	120.40	113.80
21	LK	107	ASN	CA-CB-CG	6.60	119.20	112.60
38	Lb	731	PHE	CA-CB-CG	6.60	120.40	113.80
2	L1	434	ASP	CA-CB-CG	6.60	119.20	112.60
25	LO	181	GLU	CA-C-N	6.60	130.13	122.35
25	LO	181	GLU	C-N-CA	6.60	130.13	122.35
8	L7	84	PHE	CA-CB-CG	6.59	120.39	113.80
17	LG	203	ASP	CA-CB-CG	6.59	119.19	112.60
45	Li	689	HIS	CA-CB-CG	6.59	120.39	113.80
3	L2	168	ASP	CA-CB-CG	6.59	119.19	112.60
3	L2	35	PHE	CA-CB-CG	6.59	120.39	113.80
36	LZ	58	PHE	CA-CB-CG	6.59	120.39	113.80
45	Li	702	PHE	CA-CB-CG	6.59	120.39	113.80
47	Lk	507	ASP	CA-CB-CG	6.59	119.19	112.60
56	Lt	271	PHE	CA-CB-CG	6.59	120.39	113.80
2	L1	427	HIS	CA-CB-CG	6.59	120.39	113.80
1	L0	402	PHE	CA-CB-CG	6.58	120.39	113.80
32	LV	519	PHE	CA-CB-CG	6.58	120.39	113.80
34	LX	148	PHE	CA-CB-CG	6.58	120.39	113.80
38	Lb	578	HIS	CA-CB-CG	6.58	120.39	113.80
38	Lb	713	PHE	CA-CB-CG	6.58	120.38	113.80
64	UB	368	PHE	CA-CB-CG	6.58	120.38	113.80
31	LU	266	PHE	CA-CB-CG	6.58	120.38	113.80
64	UB	390	ASP	CA-CB-CG	6.58	119.18	112.60
7	L6	251	HIS	CA-CB-CG	6.58	120.38	113.80
40	Ld	465	PHE	CA-CB-CG	6.58	120.38	113.80
48	Ll	97	GLY	N-CA-C	6.58	119.72	110.38
13	LC	250	ASP	CA-CB-CG	6.58	119.17	112.60
44	Lh	397	PHE	CA-CB-CG	6.58	120.38	113.80
35	LY	279	PHE	CA-CB-CG	6.57	120.37	113.80
39	Lc	338	ASP	CA-CB-CG	6.57	119.17	112.60
32	LV	1070	ASN	CA-CB-CG	6.57	119.17	112.60
11	LA	21	HIS	CA-CB-CG	6.57	120.37	113.80
38	Lb	459	ASP	CA-CB-CG	6.57	119.17	112.60
9	L8	93	HIS	CA-CB-CG	6.56	120.36	113.80
39	Lc	332	ASP	CA-CB-CG	6.56	119.16	112.60
48	Ll	79	ASP	CA-CB-CG	6.56	119.16	112.60
57	Lu	386	VAL	N-CA-CB	6.56	116.75	109.99
54	Lr	104	ASP	CA-CB-CG	6.56	119.16	112.60
4	L3	730	ASP	CA-CB-CG	6.56	119.16	112.60
70	UH	264	ASP	CA-CB-CG	6.56	119.16	112.60
20	LJ	253	PHE	CA-CB-CG	6.56	120.36	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	LK	191	PHE	CA-CB-CG	6.55	120.36	113.80
39	Lc	493	HIS	CA-CB-CG	6.55	120.36	113.80
20	LJ	153	ALA	CA-C-N	6.55	130.08	122.35
20	LJ	153	ALA	C-N-CA	6.55	130.08	122.35
64	UB	389	ASP	CA-CB-CG	6.55	119.15	112.60
3	L2	159	ASN	CA-CB-CG	6.55	119.15	112.60
4	L3	733	PHE	CA-CB-CG	6.55	120.35	113.80
56	Lt	116	ASP	CA-CB-CG	6.55	119.15	112.60
24	LN	313	ASP	CA-CB-CG	6.55	119.15	112.60
24	LN	337	ASN	CA-CB-CG	6.55	119.15	112.60
36	LZ	52	PHE	CA-CB-CG	6.55	120.35	113.80
51	Lo	149	ASN	CA-CB-CG	6.55	119.15	112.60
41	Le	446	ASP	CA-CB-CG	6.54	119.14	112.60
10	L9	10	PHE	CA-CB-CG	6.54	120.34	113.80
14	LD	396	PHE	CA-CB-CG	6.54	120.34	113.80
14	LD	487	PHE	CA-CB-CG	6.54	120.34	113.80
36	LZ	125	PHE	CA-CB-CG	6.54	120.34	113.80
13	LC	453	ASN	CA-CB-CG	6.54	119.14	112.60
57	Lu	271	HIS	CA-CB-CG	6.54	120.34	113.80
62	Lz	207	HIS	CA-CB-CG	6.54	120.34	113.80
29	LS	56	ASN	CA-CB-CG	6.53	119.13	112.60
52	Lp	717	PHE	CA-CB-CG	6.53	120.33	113.80
35	LY	269	PHE	CA-CB-CG	6.53	120.33	113.80
36	LZ	126	LEU	CA-C-N	6.53	129.03	122.30
36	LZ	126	LEU	C-N-CA	6.53	129.03	122.30
61	Ly	516	ASP	CA-CB-CG	6.53	119.13	112.60
49	Lm	292	ASN	CA-CB-CG	6.53	119.13	112.60
62	Lz	156	PHE	CA-CB-CG	6.53	120.33	113.80
53	Lq	481	HIS	CA-CB-CG	6.53	120.33	113.80
35	LY	267	HIS	CA-CB-CG	6.53	120.33	113.80
55	Ls	377	ASP	CA-CB-CG	6.53	119.13	112.60
18	LH	207	ASN	CA-CB-CG	6.53	119.12	112.60
35	LY	453	LEU	CA-C-N	6.52	130.79	122.37
35	LY	453	LEU	C-N-CA	6.52	130.79	122.37
56	Lt	236	PHE	CA-CB-CG	6.52	120.32	113.80
4	L3	735	ASN	CA-CB-CG	6.52	119.12	112.60
27	LQ	361	PHE	CA-CB-CG	6.52	120.32	113.80
37	La	191	PHE	CA-CB-CG	6.52	120.32	113.80
38	Lb	788	ASP	CA-CB-CG	6.52	119.12	112.60
41	Le	566	ASP	CA-CB-CG	6.52	119.12	112.60
9	L8	101	ASN	CA-CB-CG	6.52	119.12	112.60
28	LR	32	PHE	CA-CB-CG	6.51	120.31	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Lj	20	HIS	CA-CB-CG	6.51	120.31	113.80
53	Lq	240	ASP	CA-CB-CG	6.51	119.11	112.60
70	UH	279	PHE	CA-CB-CG	6.51	120.31	113.80
45	Li	313	LEU	CA-C-N	6.51	130.18	122.89
45	Li	313	LEU	C-N-CA	6.51	130.18	122.89
64	UB	293	HIS	CA-CB-CG	6.51	120.31	113.80
14	LD	475	LEU	CA-C-N	6.51	132.37	122.93
14	LD	475	LEU	C-N-CA	6.51	132.37	122.93
55	Ls	337	PHE	CA-C-N	6.51	131.03	123.15
55	Ls	337	PHE	C-N-CA	6.51	131.03	123.15
12	LB	109	PHE	CA-CB-CG	6.50	120.30	113.80
22	LL	236	ASP	CA-CB-CG	6.50	119.10	112.60
39	Lc	318	ASP	CA-CB-CG	6.50	119.10	112.60
61	Ly	459	HIS	CA-CB-CG	6.50	120.30	113.80
69	UG	367	ASP	CA-CB-CG	6.50	119.10	112.60
26	LP	169	ASN	CA-CB-CG	6.50	119.10	112.60
26	LP	82	HIS	CA-CB-CG	6.50	120.30	113.80
45	Li	359	HIS	CA-CB-CG	6.49	120.29	113.80
46	Lj	49	PHE	CA-CB-CG	6.49	120.29	113.80
67	UE	141	ASP	CA-CB-CG	6.49	119.09	112.60
24	LN	318	PHE	CA-CB-CG	6.48	120.28	113.80
36	LZ	130	ASP	CA-CB-CG	6.48	119.08	112.60
59	Lw	109	GLN	CA-C-N	6.48	131.10	122.93
59	Lw	109	GLN	C-N-CA	6.48	131.10	122.93
56	Lt	63	PHE	CA-CB-CG	6.48	120.28	113.80
62	Lz	233	ASN	CA-CB-CG	6.48	119.08	112.60
41	Le	513	PHE	CA-CB-CG	6.47	120.27	113.80
91	lJ	28	U	N1-C1'-C2'	6.47	121.71	112.00
37	La	51	PHE	CA-CB-CG	6.47	120.27	113.80
48	Ll	31	PHE	CA-CB-CG	6.47	120.27	113.80
14	LD	325	PHE	CA-CB-CG	6.47	120.27	113.80
11	LA	172	MET	CA-C-N	6.47	129.47	120.29
11	LA	172	MET	C-N-CA	6.47	129.47	120.29
26	LP	88	ASN	CA-CB-CG	6.47	119.07	112.60
40	Ld	487	ASN	CA-CB-CG	6.46	119.06	112.60
26	LP	167	HIS	CA-CB-CG	6.46	120.26	113.80
35	LY	241	PHE	CA-CB-CG	6.46	120.26	113.80
53	Lq	149	PHE	CA-CB-CG	6.46	120.26	113.80
11	LA	177	PHE	CA-CB-CG	6.46	120.26	113.80
31	LU	237	VAL	CA-C-N	6.46	130.71	122.37
31	LU	237	VAL	C-N-CA	6.46	130.71	122.37
21	LK	251	HIS	CA-CB-CG	6.46	120.26	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	Lh	339	HIS	CA-CB-CG	6.46	120.26	113.80
4	L3	587	PHE	CA-CB-CG	6.46	120.26	113.80
26	LP	78	PHE	CA-CB-CG	6.46	120.26	113.80
26	LP	152	HIS	CA-CB-CG	6.46	120.26	113.80
33	LW	466	HIS	CA-CB-CG	6.46	120.26	113.80
39	Lc	602	HIS	CA-CB-CG	6.46	120.26	113.80
44	Lh	500	VAL	CA-C-N	6.46	129.22	120.44
44	Lh	500	VAL	C-N-CA	6.46	129.22	120.44
51	Lo	297	PHE	CA-CB-CG	6.46	120.25	113.80
26	LP	187	HIS	CA-CB-CG	6.45	120.25	113.80
38	Lb	637	HIS	CA-CB-CG	6.45	120.25	113.80
47	Lk	464	PRO	CA-C-N	6.45	130.36	122.42
47	Lk	464	PRO	C-N-CA	6.45	130.36	122.42
56	Lt	227	PHE	CA-CB-CG	6.45	120.25	113.80
52	Lp	460	HIS	CA-CB-CG	6.45	120.25	113.80
19	LI	44	HIS	CA-CB-CG	6.45	120.25	113.80
44	Lh	681	PHE	CA-CB-CG	6.45	120.25	113.80
35	LY	471	ASP	CA-CB-CG	6.45	119.05	112.60
59	Lw	145	PHE	CA-CB-CG	6.45	120.25	113.80
48	Ll	96	LYS	CA-C-N	6.44	130.21	121.83
48	Ll	96	LYS	C-N-CA	6.44	130.21	121.83
39	Lc	293	LEU	CA-C-N	6.44	130.10	122.89
39	Lc	293	LEU	C-N-CA	6.44	130.10	122.89
70	UH	247	SER	CA-C-N	6.44	129.44	121.71
70	UH	247	SER	C-N-CA	6.44	129.44	121.71
1	L0	605	HIS	CA-CB-CG	6.44	120.24	113.80
40	Ld	595	HIS	CA-CB-CG	6.44	120.24	113.80
22	LL	295	ALA	CA-C-N	6.44	131.41	122.79
22	LL	295	ALA	C-N-CA	6.44	131.41	122.79
40	Ld	381	ASN	CA-CB-CG	6.44	119.04	112.60
44	Lh	476	ASN	CA-CB-CG	6.43	119.03	112.60
54	Lr	137	GLN	CA-C-N	6.43	128.90	120.28
54	Lr	137	GLN	C-N-CA	6.43	128.90	120.28
5	L4	402	PHE	CA-CB-CG	6.43	120.23	113.80
52	Lp	695	PHE	CA-CB-CG	6.43	120.23	113.80
64	UB	310	ASN	CA-CB-CG	6.43	119.03	112.60
37	La	201	PHE	CA-CB-CG	6.43	120.23	113.80
49	Lm	346	ASN	CA-C-N	6.43	131.03	122.93
49	Lm	346	ASN	C-N-CA	6.43	131.03	122.93
52	Lp	518	ASN	CA-CB-CG	6.43	119.03	112.60
25	LO	132	PHE	CA-CB-CG	6.43	120.23	113.80
67	UE	122	HIS	CA-CB-CG	6.42	120.22	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	Ll	62	PHE	CA-CB-CG	6.42	120.22	113.80
32	LV	239	PHE	CA-CB-CG	6.42	120.22	113.80
44	Lh	498	THR	CA-C-N	6.42	131.15	123.19
44	Lh	498	THR	C-N-CA	6.42	131.15	123.19
69	UG	288	HIS	CA-CB-CG	6.42	120.22	113.80
22	LL	293	ASN	CA-CB-CG	6.42	119.02	112.60
42	Lf	349	HIS	CA-CB-CG	6.41	120.21	113.80
53	Lq	119	PRO	CA-C-N	6.41	129.90	122.85
53	Lq	119	PRO	C-N-CA	6.41	129.90	122.85
18	LH	204	ARG	CD-NE-CZ	6.41	133.37	124.40
44	Lh	687	ASP	CA-CB-CG	6.41	119.01	112.60
20	LJ	374	ASP	CA-CB-CG	6.40	119.00	112.60
38	Lb	780	HIS	CA-CB-CG	6.40	120.20	113.80
53	Lq	126	PHE	CA-C-N	6.40	131.03	123.16
53	Lq	126	PHE	C-N-CA	6.40	131.03	123.16
14	LD	552	HIS	CA-CB-CG	6.39	120.19	113.80
1	L0	551	VAL	CA-C-N	6.39	130.61	122.37
1	L0	551	VAL	C-N-CA	6.39	130.61	122.37
62	Lz	214	PHE	CA-CB-CG	6.39	120.19	113.80
35	LY	483	VAL	N-CA-CB	6.39	116.57	109.99
68	UF	11	HIS	CA-CB-CG	6.39	120.19	113.80
38	Lb	306	GLY	CA-C-N	6.38	129.22	120.35
38	Lb	306	GLY	C-N-CA	6.38	129.22	120.35
57	Lu	390	HIS	CA-CB-CG	6.38	120.19	113.80
41	Le	578	ASN	CA-CB-CG	6.38	118.98	112.60
46	Lj	35	PHE	CA-CB-CG	6.38	120.18	113.80
55	Ls	417	LYS	CA-C-N	6.38	129.87	122.85
55	Ls	417	LYS	C-N-CA	6.38	129.87	122.85
11	LA	25	PHE	CA-CB-CG	6.38	120.18	113.80
35	LY	528	ASP	CA-CB-CG	6.38	118.98	112.60
36	LZ	4	PHE	CA-CB-CG	6.38	120.17	113.80
70	UH	235	ASN	CA-C-N	6.38	126.13	119.05
70	UH	235	ASN	C-N-CA	6.38	126.13	119.05
33	LW	502	PHE	CA-CB-CG	6.37	120.17	113.80
63	UA	258	ASP	CA-CB-CG	6.37	118.97	112.60
51	Lo	236	HIS	CA-CB-CG	6.37	120.17	113.80
2	L1	429	PHE	CA-CB-CG	6.37	120.17	113.80
55	Ls	342	PHE	CA-CB-CG	6.37	120.17	113.80
68	UF	46	PHE	CA-CB-CG	6.37	120.17	113.80
1	L0	332	PHE	CA-CB-CG	6.37	120.17	113.80
17	LG	199	PHE	CA-CB-CG	6.37	120.17	113.80
57	Lu	255	PHE	CA-CB-CG	6.36	120.16	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	LQ	412	ASP	CA-CB-CG	6.36	118.96	112.60
22	LL	517	LYS	CA-C-N	6.36	129.74	122.36
22	LL	517	LYS	C-N-CA	6.36	129.74	122.36
51	Lo	210	PHE	CA-CB-CG	6.36	120.16	113.80
54	Lr	4	ASN	CA-CB-CG	6.36	118.96	112.60
26	LP	187	HIS	CA-C-N	6.35	131.03	122.90
26	LP	187	HIS	C-N-CA	6.35	131.03	122.90
41	Le	490	ASP	CA-CB-CG	6.35	118.95	112.60
51	Lo	238	HIS	CA-CB-CG	6.35	120.15	113.80
48	Ll	43	ASN	CA-CB-CG	6.35	118.95	112.60
59	Lw	153	ASP	CA-CB-CG	6.35	118.95	112.60
68	UF	58	SER	CA-C-N	6.35	129.89	123.16
68	UF	58	SER	C-N-CA	6.35	129.89	123.16
29	LS	75	GLY	CA-C-N	6.35	131.06	123.19
29	LS	75	GLY	C-N-CA	6.35	131.06	123.19
37	La	197	HIS	CA-CB-CG	6.35	120.15	113.80
19	LI	30	VAL	CA-C-N	6.34	130.18	123.08
19	LI	30	VAL	C-N-CA	6.34	130.18	123.08
96	lO	78	A	O4'-C1'-N9	6.34	117.71	108.20
1	L0	309	ASN	CA-CB-CG	6.34	118.94	112.60
13	LC	171	PHE	CA-CB-CG	6.34	120.14	113.80
70	UH	262	PHE	CA-CB-CG	6.33	120.13	113.80
13	LC	457	HIS	CA-CB-CG	6.33	120.13	113.80
39	Lc	259	PHE	CA-CB-CG	6.33	120.13	113.80
47	Lk	470	PHE	CA-CB-CG	6.33	120.13	113.80
3	L2	205	ASP	CA-CB-CG	6.33	118.93	112.60
52	Lp	631	HIS	CA-CB-CG	6.33	120.13	113.80
55	Ls	578	ALA	CA-C-N	6.33	129.05	120.44
55	Ls	578	ALA	C-N-CA	6.33	129.05	120.44
27	LQ	366	PHE	CA-CB-CG	6.33	120.13	113.80
13	LC	472	ASP	CA-CB-CG	6.33	118.93	112.60
20	LJ	237	PHE	CA-CB-CG	6.32	120.12	113.80
25	LO	137	PHE	CA-CB-CG	6.32	120.12	113.80
36	LZ	53	PHE	CA-C-N	6.32	130.90	122.93
36	LZ	53	PHE	C-N-CA	6.32	130.90	122.93
58	Lv	79	ILE	CA-C-N	6.32	130.57	122.93
58	Lv	79	ILE	C-N-CA	6.32	130.57	122.93
31	LU	283	PRO	CA-C-N	6.31	131.41	123.14
31	LU	283	PRO	C-N-CA	6.31	131.41	123.14
33	LW	465	THR	CA-C-N	6.31	129.02	120.44
33	LW	465	THR	C-N-CA	6.31	129.02	120.44
39	Lc	463	ILE	CA-C-N	6.31	128.65	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	463	ILE	C-N-CA	6.31	128.65	120.44
59	Lw	146	PHE	CA-CB-CG	6.31	120.11	113.80
26	LP	142	PHE	CA-CB-CG	6.31	120.11	113.80
41	Le	467	PHE	CA-CB-CG	6.31	120.11	113.80
23	LM	5	GLY	N-CA-C	6.31	118.65	110.45
25	LO	299	ASN	CA-CB-CG	6.31	118.91	112.60
21	LK	95	ASN	CA-CB-CG	6.31	118.91	112.60
19	LI	73	TYR	CA-C-N	6.30	131.23	123.10
19	LI	73	TYR	C-N-CA	6.30	131.23	123.10
39	Lc	503	ASP	CA-CB-CG	6.30	118.90	112.60
59	Lw	114	HIS	CA-CB-CG	6.30	120.11	113.80
37	La	82	PHE	CA-CB-CG	6.30	120.10	113.80
23	LM	36	PHE	CA-CB-CG	6.30	120.10	113.80
24	LN	290	ASN	CA-CB-CG	6.30	118.90	112.60
40	Ld	453	ASP	CA-CB-CG	6.30	118.90	112.60
49	Lm	415	ASP	CA-CB-CG	6.30	118.90	112.60
61	Ly	575	PHE	CA-CB-CG	6.30	120.10	113.80
37	La	92	ARG	CA-C-N	6.29	130.99	123.19
37	La	92	ARG	C-N-CA	6.29	130.99	123.19
37	La	27	SER	CA-C-N	6.29	130.49	122.37
37	La	27	SER	C-N-CA	6.29	130.49	122.37
39	Lc	257	ASN	CA-CB-CG	6.29	118.89	112.60
44	Lh	685	TYR	CA-C-N	6.29	130.99	123.19
44	Lh	685	TYR	C-N-CA	6.29	130.99	123.19
54	Lr	261	GLY	N-CA-C	6.29	119.06	110.69
55	Ls	390	HIS	CA-CB-CG	6.29	120.09	113.80
8	L7	15	SER	CA-C-N	6.29	130.23	122.37
8	L7	15	SER	C-N-CA	6.29	130.23	122.37
12	LB	17	GLY	N-CA-C	6.29	118.71	111.36
62	Lz	211	ILE	CA-C-N	6.28	131.13	122.77
62	Lz	211	ILE	C-N-CA	6.28	131.13	122.77
1	L0	388	HIS	CA-CB-CG	6.28	120.08	113.80
37	La	45	PRO	CA-C-N	6.28	130.05	122.26
37	La	45	PRO	C-N-CA	6.28	130.05	122.26
41	Le	420	HIS	CA-CB-CG	6.28	120.08	113.80
1	L0	336	PHE	CA-CB-CG	6.28	120.08	113.80
11	LA	72	ASP	CA-CB-CG	6.28	118.88	112.60
11	LA	168	LEU	CA-C-N	6.28	128.67	120.26
11	LA	168	LEU	C-N-CA	6.28	128.67	120.26
51	Lo	91	HIS	CA-CB-CG	6.28	120.08	113.80
45	Li	586	PHE	CA-CB-CG	6.28	120.08	113.80
69	UG	322	HIS	CA-CB-CG	6.28	120.08	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	La	141	PHE	CA-C-N	6.27	129.16	122.26
37	La	141	PHE	C-N-CA	6.27	129.16	122.26
43	Lg	134	ARG	CD-NE-CZ	6.27	133.18	124.40
53	Lq	300	PHE	CA-CB-CG	6.27	120.07	113.80
5	L4	468	THR	CA-C-N	6.27	128.96	120.44
5	L4	468	THR	C-N-CA	6.27	128.96	120.44
38	Lb	280	PHE	CA-CB-CG	6.26	120.06	113.80
39	Lc	595	HIS	CA-CB-CG	6.26	120.06	113.80
45	Li	367	VAL	CA-C-N	6.26	128.58	120.44
45	Li	367	VAL	C-N-CA	6.26	128.58	120.44
33	LW	472	HIS	CA-CB-CG	6.26	120.06	113.80
35	LY	308	PHE	CA-CB-CG	6.26	120.06	113.80
57	Lu	274	ASN	CA-CB-CG	6.26	118.86	112.60
23	LM	76	TRP	CA-C-N	6.25	128.95	120.44
23	LM	76	TRP	C-N-CA	6.25	128.95	120.44
27	LQ	415	ARG	CA-C-N	6.25	128.64	120.26
27	LQ	415	ARG	C-N-CA	6.25	128.64	120.26
52	Lp	538	ARG	CD-NE-CZ	6.25	133.15	124.40
67	UE	144	ARG	CD-NE-CZ	6.25	133.15	124.40
8	L7	61	LYS	CA-C-N	6.25	130.71	123.15
8	L7	61	LYS	C-N-CA	6.25	130.71	123.15
13	LC	124	GLY	CA-C-N	6.25	130.94	123.19
13	LC	124	GLY	C-N-CA	6.25	130.94	123.19
25	LO	87	ARG	CD-NE-CZ	6.25	133.15	124.40
22	LL	375	GLU	CA-C-N	6.25	131.32	123.14
22	LL	375	GLU	C-N-CA	6.25	131.32	123.14
29	LS	70	ASP	CA-CB-CG	6.24	118.84	112.60
31	LU	244	ASN	CA-CB-CG	6.24	118.84	112.60
38	Lb	286	HIS	CA-CB-CG	6.24	120.04	113.80
38	Lb	309	ASN	CA-CB-CG	6.24	118.84	112.60
67	UE	202	TYR	CA-C-N	6.24	128.56	120.44
67	UE	202	TYR	C-N-CA	6.24	128.56	120.44
52	Lp	745	ARG	CD-NE-CZ	6.24	133.14	124.40
1	L0	363	ARG	CD-NE-CZ	6.24	133.14	124.40
1	L0	383	HIS	CA-CB-CG	6.24	120.04	113.80
9	L8	225	PHE	CA-CB-CG	6.24	120.04	113.80
11	LA	149	ARG	CD-NE-CZ	6.24	133.13	124.40
20	LJ	418	ARG	CD-NE-CZ	6.24	133.13	124.40
68	UF	42	ASN	CA-CB-CG	6.24	118.84	112.60
38	Lb	747	THR	CA-C-N	6.24	131.31	123.14
38	Lb	747	THR	C-N-CA	6.24	131.31	123.14
44	Lh	637	ARG	CD-NE-CZ	6.24	133.13	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	LC	170	ARG	CD-NE-CZ	6.23	133.12	124.40
61	Ly	334	ASP	CA-CB-CG	6.23	118.83	112.60
61	Ly	587	ARG	CD-NE-CZ	6.23	133.12	124.40
38	Lb	424	PHE	CA-CB-CG	6.23	120.03	113.80
45	Li	618	ASN	CA-CB-CG	6.23	118.83	112.60
57	Lu	279	ARG	CD-NE-CZ	6.23	133.12	124.40
67	UE	127	ARG	CD-NE-CZ	6.23	133.12	124.40
23	LM	40	PHE	CA-CB-CG	6.22	120.02	113.80
33	LW	223	PHE	CA-CB-CG	6.22	120.02	113.80
43	Lg	115	ARG	CD-NE-CZ	6.22	133.11	124.40
45	Li	314	ARG	CD-NE-CZ	6.22	133.11	124.40
34	LX	156	PHE	CA-CB-CG	6.22	120.02	113.80
35	LY	506	ARG	CD-NE-CZ	6.22	133.10	124.40
28	LR	71	ARG	CD-NE-CZ	6.21	133.10	124.40
35	LY	531	ARG	CD-NE-CZ	6.21	133.10	124.40
18	LH	212	VAL	CA-C-N	6.21	131.03	122.77
18	LH	212	VAL	C-N-CA	6.21	131.03	122.77
22	LL	232	PRO	CA-C-N	6.21	131.03	122.77
22	LL	232	PRO	C-N-CA	6.21	131.03	122.77
37	La	170	ASP	CA-CB-CG	6.21	118.81	112.60
40	Ld	493	HIS	CA-CB-CG	6.21	120.01	113.80
44	Lh	332	ARG	CD-NE-CZ	6.21	133.09	124.40
61	Ly	300	ARG	CD-NE-CZ	6.21	133.10	124.40
22	LL	341	LEU	CA-C-N	6.21	131.57	123.00
22	LL	341	LEU	C-N-CA	6.21	131.57	123.00
40	Ld	623	PHE	CA-CB-CG	6.21	120.01	113.80
35	LY	533	PHE	CA-CB-CG	6.21	120.01	113.80
40	Ld	310	ARG	CD-NE-CZ	6.21	133.09	124.40
62	Lz	212	GLU	CA-C-N	6.21	130.75	122.93
62	Lz	212	GLU	C-N-CA	6.21	130.75	122.93
35	LY	465	PHE	CA-CB-CG	6.21	120.00	113.80
41	Le	577	ASN	CA-CB-CG	6.20	118.80	112.60
23	LM	109	ARG	CD-NE-CZ	6.20	133.08	124.40
35	LY	440	GLN	CA-C-N	6.20	131.11	123.17
35	LY	440	GLN	C-N-CA	6.20	131.11	123.17
52	Lp	492	PRO	CA-C-N	6.20	130.67	122.30
52	Lp	492	PRO	C-N-CA	6.20	130.67	122.30
55	Ls	345	ARG	CD-NE-CZ	6.20	133.08	124.40
52	Lp	562	PHE	CA-C-N	6.20	130.74	122.93
52	Lp	562	PHE	C-N-CA	6.20	130.74	122.93
53	Lq	478	ARG	CD-NE-CZ	6.20	133.08	124.40
56	Lt	255	HIS	CA-CB-CG	6.20	120.00	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
68	UF	32	ARG	CD-NE-CZ	6.20	133.08	124.40
1	L0	279	PRO	CA-C-N	6.20	129.67	120.87
1	L0	279	PRO	C-N-CA	6.20	129.67	120.87
32	LV	1087	PRO	CA-C-N	6.20	128.87	120.44
32	LV	1087	PRO	C-N-CA	6.20	128.87	120.44
33	LW	462	ARG	CD-NE-CZ	6.20	133.08	124.40
52	Lp	512	ARG	CD-NE-CZ	6.20	133.08	124.40
63	UA	266	PRO	CA-C-N	6.20	130.37	122.37
63	UA	266	PRO	C-N-CA	6.20	130.37	122.37
25	LO	16	LEU	CA-C-N	6.20	130.90	122.84
25	LO	16	LEU	C-N-CA	6.20	130.90	122.84
11	LA	167	ARG	CD-NE-CZ	6.20	133.07	124.40
14	LD	571	ALA	CA-C-N	6.20	131.01	122.77
14	LD	571	ALA	C-N-CA	6.20	131.01	122.77
36	LZ	114	CYS	CA-C-N	6.19	131.34	123.10
36	LZ	114	CYS	C-N-CA	6.19	131.34	123.10
38	Lb	685	ARG	CD-NE-CZ	6.19	133.07	124.40
41	Le	604	ARG	CD-NE-CZ	6.19	133.07	124.40
69	UG	333	ALA	CA-C-N	6.19	131.01	122.77
69	UG	333	ALA	C-N-CA	6.19	131.01	122.77
5	L4	593	ARG	CD-NE-CZ	6.19	133.07	124.40
46	Lj	102	ARG	CD-NE-CZ	6.19	133.07	124.40
54	Lr	17	ARG	CD-NE-CZ	6.19	133.07	124.40
59	Lw	114	HIS	N-CA-CB	6.19	117.72	110.42
20	LJ	119	ARG	CD-NE-CZ	6.19	133.06	124.40
55	Ls	344	ARG	CD-NE-CZ	6.19	133.06	124.40
44	Lh	408	ARG	CD-NE-CZ	6.19	133.06	124.40
61	Ly	384	ARG	CD-NE-CZ	6.19	133.06	124.40
1	L0	331	ARG	CD-NE-CZ	6.19	133.06	124.40
69	UG	262	ARG	CD-NE-CZ	6.19	133.06	124.40
18	LH	195	SER	CA-C-N	6.18	130.82	122.90
18	LH	195	SER	C-N-CA	6.18	130.82	122.90
20	LJ	263	HIS	CA-CB-CG	6.18	119.98	113.80
25	LO	123	THR	CA-C-N	6.18	131.03	122.93
25	LO	123	THR	C-N-CA	6.18	131.03	122.93
25	LO	264	THR	CA-C-N	6.18	130.82	122.90
25	LO	264	THR	C-N-CA	6.18	130.82	122.90
40	Ld	510	ARG	CD-NE-CZ	6.18	133.06	124.40
41	Le	534	LEU	CA-C-N	6.18	128.57	120.28
41	Le	534	LEU	C-N-CA	6.18	128.57	120.28
60	Lx	312	ASP	CA-CB-CG	6.18	118.78	112.60
5	L4	203	ARG	CD-NE-CZ	6.18	133.06	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	LN	290	ASN	CA-C-N	6.18	128.39	122.27
24	LN	290	ASN	C-N-CA	6.18	128.39	122.27
25	LO	121	ARG	CD-NE-CZ	6.18	133.05	124.40
39	Lc	204	ARG	CD-NE-CZ	6.18	133.05	124.40
48	Ll	42	ARG	CA-C-N	6.18	130.63	123.15
48	Ll	42	ARG	C-N-CA	6.18	130.63	123.15
37	La	92	ARG	CD-NE-CZ	6.18	133.05	124.40
57	Lu	392	PRO	CA-C-N	6.18	129.07	120.29
57	Lu	392	PRO	C-N-CA	6.18	129.07	120.29
37	La	37	ARG	CD-NE-CZ	6.18	133.05	124.40
42	Lf	185	ASN	CA-CB-CG	6.18	118.78	112.60
54	Lr	61	ARG	CD-NE-CZ	6.18	133.05	124.40
23	LM	63	ARG	CD-NE-CZ	6.18	133.05	124.40
52	Lp	604	ARG	CD-NE-CZ	6.18	133.05	124.40
69	UG	263	ARG	CD-NE-CZ	6.18	133.05	124.40
35	LY	443	ARG	CD-NE-CZ	6.18	133.05	124.40
49	Lm	349	ARG	CD-NE-CZ	6.18	133.05	124.40
20	LJ	212	PHE	CA-CB-CG	6.17	119.97	113.80
22	LL	531	ARG	CD-NE-CZ	6.17	133.04	124.40
38	Lb	502	ARG	CD-NE-CZ	6.17	133.04	124.40
44	Lh	330	VAL	CA-C-N	6.17	129.78	120.95
44	Lh	330	VAL	C-N-CA	6.17	129.78	120.95
45	Li	125	ARG	CD-NE-CZ	6.17	133.04	124.40
46	Lj	40	PHE	CA-CB-CG	6.17	119.97	113.80
53	Lq	252	GLU	CA-C-N	6.17	128.47	120.44
53	Lq	252	GLU	C-N-CA	6.17	128.47	120.44
55	Ls	350	ARG	CD-NE-CZ	6.17	133.05	124.40
65	UC	200	PHE	CA-CB-CG	6.17	119.97	113.80
24	LN	281	GLY	N-CA-C	6.17	118.95	110.56
25	LO	163	HIS	CA-CB-CG	6.17	119.97	113.80
27	LQ	403	ARG	CD-NE-CZ	6.17	133.04	124.40
45	Li	710	ARG	CD-NE-CZ	6.17	133.04	124.40
48	Ll	4	ARG	CD-NE-CZ	6.17	133.04	124.40
61	Ly	372	LEU	CA-C-N	6.17	131.42	123.03
61	Ly	372	LEU	C-N-CA	6.17	131.42	123.03
5	L4	469	ARG	CD-NE-CZ	6.17	133.04	124.40
29	LS	56	ASN	CA-C-N	6.17	130.97	122.77
29	LS	56	ASN	C-N-CA	6.17	130.97	122.77
41	Le	489	ARG	CD-NE-CZ	6.17	133.03	124.40
44	Lh	358	ARG	CD-NE-CZ	6.17	133.04	124.40
48	Ll	138	ARG	CD-NE-CZ	6.17	133.03	124.40
52	Lp	720	ARG	CD-NE-CZ	6.17	133.04	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	LJ	280	ARG	CD-NE-CZ	6.17	133.03	124.40
26	LP	280	ARG	CD-NE-CZ	6.17	133.03	124.40
30	LT	12	ARG	CD-NE-CZ	6.17	133.03	124.40
37	La	79	ARG	CD-NE-CZ	6.17	133.03	124.40
38	Lb	285	PHE	CA-CB-CG	6.17	119.97	113.80
38	Lb	357	ARG	CD-NE-CZ	6.17	133.03	124.40
41	Le	515	ARG	CD-NE-CZ	6.17	133.03	124.40
45	Li	523	ARG	CD-NE-CZ	6.17	133.03	124.40
55	Ls	338	ARG	CD-NE-CZ	6.17	133.03	124.40
51	Lo	114	ARG	CD-NE-CZ	6.17	133.03	124.40
64	UB	304	ARG	CD-NE-CZ	6.17	133.03	124.40
38	Lb	284	ARG	CD-NE-CZ	6.16	133.03	124.40
51	Lo	265	ARG	CD-NE-CZ	6.16	133.03	124.40
38	Lb	584	ARG	CD-NE-CZ	6.16	133.03	124.40
41	Le	629	ARG	CD-NE-CZ	6.16	133.03	124.40
9	L8	52	ARG	CD-NE-CZ	6.16	133.03	124.40
9	L8	161	ARG	CD-NE-CZ	6.16	133.02	124.40
20	LJ	374	ASP	CA-C-N	6.16	129.04	120.29
20	LJ	374	ASP	C-N-CA	6.16	129.04	120.29
24	LN	320	PHE	CA-CB-CG	6.16	119.96	113.80
32	LV	472	CYS	CA-C-N	6.16	130.16	121.66
32	LV	472	CYS	C-N-CA	6.16	130.16	121.66
37	La	101	ILE	CA-C-N	6.16	130.83	123.19
37	La	101	ILE	C-N-CA	6.16	130.83	123.19
29	LS	9	ARG	CD-NE-CZ	6.16	133.02	124.40
33	LW	210	ARG	CD-NE-CZ	6.16	133.02	124.40
35	LY	249	ARG	CD-NE-CZ	6.16	133.02	124.40
38	Lb	384	ARG	CD-NE-CZ	6.16	133.02	124.40
30	LT	71	GLN	CA-C-N	6.16	130.78	122.90
30	LT	71	GLN	C-N-CA	6.16	130.78	122.90
33	LW	314	LYS	CA-C-N	6.16	130.31	122.37
33	LW	314	LYS	C-N-CA	6.16	130.31	122.37
39	Lc	522	ASP	CA-CB-CG	6.16	118.76	112.60
48	Ll	38	ARG	CD-NE-CZ	6.16	133.02	124.40
49	Lm	418	ARG	CD-NE-CZ	6.16	133.02	124.40
61	Ly	596	ARG	CD-NE-CZ	6.16	133.02	124.40
10	L9	460	HIS	CA-C-N	6.16	130.96	122.77
10	L9	460	HIS	C-N-CA	6.16	130.96	122.77
25	LO	136	ARG	CD-NE-CZ	6.16	133.02	124.40
44	Lh	631	PHE	CA-CB-CG	6.16	119.95	113.80
54	Lr	265	ARG	CD-NE-CZ	6.16	133.02	124.40
20	LJ	213	ARG	CD-NE-CZ	6.15	133.02	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	LR	51	ARG	CD-NE-CZ	6.15	133.02	124.40
38	Lb	312	ARG	CD-NE-CZ	6.15	133.01	124.40
45	Li	589	ALA	CA-C-N	6.15	131.12	123.12
45	Li	589	ALA	C-N-CA	6.15	131.12	123.12
25	LO	159	ASN	CA-CB-CG	6.15	118.75	112.60
39	Lc	427	ARG	CD-NE-CZ	6.15	133.01	124.40
40	Ld	613	ARG	CD-NE-CZ	6.15	133.01	124.40
53	Lq	229	ARG	CD-NE-CZ	6.15	133.01	124.40
3	L2	41	ARG	CD-NE-CZ	6.15	133.01	124.40
30	LT	120	ARG	CD-NE-CZ	6.15	133.01	124.40
36	LZ	110	ARG	CD-NE-CZ	6.15	133.01	124.40
38	Lb	297	TYR	CA-C-N	6.15	130.95	122.77
38	Lb	297	TYR	C-N-CA	6.15	130.95	122.77
39	Lc	317	ARG	CD-NE-CZ	6.15	133.01	124.40
39	Lc	333	ARG	CD-NE-CZ	6.15	133.01	124.40
40	Ld	494	ARG	CD-NE-CZ	6.15	133.01	124.40
51	Lo	347	ARG	CD-NE-CZ	6.15	133.01	124.40
1	L0	276	PHE	CA-CB-CG	6.15	119.95	113.80
17	LG	206	ARG	CD-NE-CZ	6.15	133.01	124.40
27	LQ	357	ARG	CD-NE-CZ	6.15	133.00	124.40
32	LV	486	ARG	CD-NE-CZ	6.15	133.01	124.40
38	Lb	358	ARG	CD-NE-CZ	6.15	133.01	124.40
44	Lh	740	ARG	CD-NE-CZ	6.15	133.01	124.40
68	UF	29	PHE	CA-CB-CG	6.15	119.95	113.80
29	LS	87	VAL	CA-C-N	6.15	131.11	123.12
29	LS	87	VAL	C-N-CA	6.15	131.11	123.12
38	Lb	386	ARG	CD-NE-CZ	6.15	133.00	124.40
43	Lg	175	ARG	CD-NE-CZ	6.15	133.00	124.40
48	Ll	113	ARG	CD-NE-CZ	6.15	133.00	124.40
1	L0	586	ARG	CD-NE-CZ	6.14	133.00	124.40
20	LJ	245	ARG	CD-NE-CZ	6.14	133.00	124.40
21	LK	262	PHE	CA-CB-CG	6.14	119.94	113.80
32	LV	652	PHE	CA-CB-CG	6.14	119.94	113.80
36	LZ	5	ARG	CD-NE-CZ	6.14	133.00	124.40
37	La	30	ARG	CD-NE-CZ	6.14	133.00	124.40
46	Lj	59	ASP	CA-CB-CG	6.14	118.75	112.60
48	Ll	104	HIS	CA-CB-CG	6.14	119.94	113.80
53	Lq	271	ARG	CD-NE-CZ	6.14	133.00	124.40
1	L0	469	ARG	CD-NE-CZ	6.14	133.00	124.40
32	LV	441	GLN	CA-C-N	6.14	129.94	122.63
32	LV	441	GLN	C-N-CA	6.14	129.94	122.63
39	Lc	494	ARG	CD-NE-CZ	6.14	133.00	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	678	PHE	CA-CB-CG	6.14	119.94	113.80
55	Ls	388	HIS	CA-CB-CG	6.14	119.94	113.80
68	UF	64	ARG	CD-NE-CZ	6.14	133.00	124.40
5	L4	223	ARG	CD-NE-CZ	6.14	133.00	124.40
13	LC	246	ARG	CD-NE-CZ	6.14	133.00	124.40
38	Lb	359	THR	CA-C-N	6.14	130.59	122.42
38	Lb	359	THR	C-N-CA	6.14	130.59	122.42
51	Lo	333	ARG	CD-NE-CZ	6.14	132.99	124.40
53	Lq	610	VAL	CA-C-N	6.14	130.85	122.19
53	Lq	610	VAL	C-N-CA	6.14	130.85	122.19
20	LJ	260	ARG	CD-NE-CZ	6.14	132.99	124.40
38	Lb	371	ARG	CD-NE-CZ	6.14	132.99	124.40
54	Lr	255	ARG	CD-NE-CZ	6.14	132.99	124.40
60	Lx	349	HIS	CA-CB-CG	6.14	119.94	113.80
61	Ly	290	ARG	CD-NE-CZ	6.14	132.99	124.40
13	LC	476	ARG	CD-NE-CZ	6.14	132.99	124.40
21	LK	142	ARG	CD-NE-CZ	6.14	132.99	124.40
26	LP	145	ASP	CA-CB-CG	6.14	118.74	112.60
28	LR	49	PHE	CA-CB-CG	6.14	119.94	113.80
29	LS	3	ARG	CD-NE-CZ	6.14	132.99	124.40
37	La	42	LEU	CA-C-N	6.14	131.64	123.05
37	La	42	LEU	C-N-CA	6.14	131.64	123.05
48	Ll	68	ARG	CD-NE-CZ	6.14	132.99	124.40
51	Lo	345	LYS	CA-C-N	6.14	130.04	122.37
51	Lo	345	LYS	C-N-CA	6.14	130.04	122.37
14	LD	362	GLU	CA-C-N	6.13	128.41	120.44
14	LD	362	GLU	C-N-CA	6.13	128.41	120.44
21	LK	68	ARG	CD-NE-CZ	6.13	132.99	124.40
21	LK	234	ARG	CD-NE-CZ	6.13	132.99	124.40
32	LV	1063	ARG	CD-NE-CZ	6.13	132.99	124.40
38	Lb	899	ARG	CD-NE-CZ	6.13	132.99	124.40
46	Lj	97	ARG	CD-NE-CZ	6.13	132.99	124.40
54	Lr	77	PHE	CA-CB-CG	6.13	119.94	113.80
64	UB	328	ARG	CD-NE-CZ	6.13	132.99	124.40
68	UF	33	ARG	CD-NE-CZ	6.13	132.99	124.40
10	L9	459	ARG	CD-NE-CZ	6.13	132.99	124.40
25	LO	11	ARG	CD-NE-CZ	6.13	132.99	124.40
42	Lf	342	ARG	CD-NE-CZ	6.13	132.99	124.40
48	Ll	33	ARG	CD-NE-CZ	6.13	132.99	124.40
55	Ls	413	ARG	CD-NE-CZ	6.13	132.99	124.40
25	LO	260	ASP	CA-CB-CG	6.13	118.73	112.60
46	Lj	26	ARG	CD-NE-CZ	6.13	132.99	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
48	Ll	136	ARG	CD-NE-CZ	6.13	132.98	124.40
50	Ln	131	GLU	CA-C-N	6.13	130.81	122.84
50	Ln	131	GLU	C-N-CA	6.13	130.81	122.84
13	LC	139	ARG	CD-NE-CZ	6.13	132.98	124.40
24	LN	274	ARG	CD-NE-CZ	6.13	132.98	124.40
51	Lo	82	ARG	CD-NE-CZ	6.13	132.98	124.40
1	L0	385	ARG	CD-NE-CZ	6.13	132.98	124.40
1	L0	568	ARG	CD-NE-CZ	6.13	132.98	124.40
47	Lk	540	ARG	CD-NE-CZ	6.13	132.98	124.40
54	Lr	269	ARG	CD-NE-CZ	6.13	132.98	124.40
55	Ls	371	ARG	CD-NE-CZ	6.13	132.98	124.40
58	Lv	74	ARG	CD-NE-CZ	6.13	132.98	124.40
29	LS	144	ARG	CD-NE-CZ	6.13	132.98	124.40
37	La	38	ARG	CD-NE-CZ	6.13	132.98	124.40
45	Li	672	ARG	CD-NE-CZ	6.13	132.98	124.40
52	Lp	517	ARG	CD-NE-CZ	6.13	132.98	124.40
59	Lw	13	ARG	CD-NE-CZ	6.13	132.98	124.40
64	UB	366	ARG	CD-NE-CZ	6.13	132.98	124.40
70	UH	273	ARG	CD-NE-CZ	6.13	132.98	124.40
9	L8	16	ARG	CD-NE-CZ	6.12	132.97	124.40
9	L8	160	ARG	CD-NE-CZ	6.12	132.97	124.40
38	Lb	423	ARG	CD-NE-CZ	6.12	132.97	124.40
39	Lc	612	ARG	CD-NE-CZ	6.12	132.97	124.40
66	UD	181	ARG	CD-NE-CZ	6.12	132.97	124.40
5	L4	440	PHE	CA-CB-CG	6.12	119.92	113.80
11	LA	169	ARG	CD-NE-CZ	6.12	132.97	124.40
22	LL	932	PRO	CA-C-N	6.12	129.65	123.16
22	LL	932	PRO	C-N-CA	6.12	129.65	123.16
25	LO	109	ARG	CD-NE-CZ	6.12	132.97	124.40
30	LT	10	ARG	CD-NE-CZ	6.12	132.97	124.40
30	LT	46	ARG	CD-NE-CZ	6.12	132.97	124.40
32	LV	1074	ARG	CD-NE-CZ	6.12	132.97	124.40
39	Lc	207	ARG	CD-NE-CZ	6.12	132.97	124.40
4	L3	633	HIS	CA-C-N	6.12	131.16	123.14
4	L3	633	HIS	C-N-CA	6.12	131.16	123.14
25	LO	256	ARG	CD-NE-CZ	6.12	132.97	124.40
35	LY	355	ARG	CD-NE-CZ	6.12	132.97	124.40
38	Lb	775	ARG	CD-NE-CZ	6.12	132.97	124.40
51	Lo	182	ARG	CD-NE-CZ	6.12	132.97	124.40
51	Lo	184	ARG	CD-NE-CZ	6.12	132.97	124.40
56	Lt	261	ALA	CA-C-N	6.12	128.48	120.28
56	Lt	261	ALA	C-N-CA	6.12	128.48	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	L2	192	ARG	CD-NE-CZ	6.12	132.97	124.40
10	L9	456	ARG	CD-NE-CZ	6.12	132.97	124.40
38	Lb	582	PHE	CA-CB-CG	6.12	119.92	113.80
55	Ls	402	ARG	CD-NE-CZ	6.12	132.97	124.40
56	Lt	219	PHE	CA-CB-CG	6.12	119.92	113.80
6	L5	450	ARG	CD-NE-CZ	6.12	132.97	124.40
26	LP	281	ARG	CD-NE-CZ	6.12	132.97	124.40
32	LV	1080	ARG	CD-NE-CZ	6.12	132.97	124.40
36	LZ	22	ARG	CD-NE-CZ	6.12	132.97	124.40
54	Lr	20	ARG	CD-NE-CZ	6.12	132.97	124.40
1	L0	373	ARG	CD-NE-CZ	6.12	132.96	124.40
15	LE	376	ARG	CD-NE-CZ	6.12	132.96	124.40
22	LL	342	ARG	CD-NE-CZ	6.12	132.96	124.40
34	LX	125	ARG	CD-NE-CZ	6.12	132.96	124.40
36	LZ	50	ARG	CD-NE-CZ	6.12	132.96	124.40
52	Lp	699	ARG	CD-NE-CZ	6.12	132.96	124.40
10	L9	17	ARG	CD-NE-CZ	6.12	132.96	124.40
23	LM	134	ARG	CD-NE-CZ	6.12	132.96	124.40
36	LZ	106	ARG	CD-NE-CZ	6.12	132.96	124.40
38	Lb	746	ARG	CD-NE-CZ	6.12	132.96	124.40
52	Lp	503	ARG	CD-NE-CZ	6.12	132.96	124.40
52	Lp	689	ARG	CD-NE-CZ	6.12	132.96	124.40
67	UE	185	ARG	CD-NE-CZ	6.12	132.96	124.40
20	LJ	366	ASN	CA-C-N	6.11	130.63	122.93
20	LJ	366	ASN	C-N-CA	6.11	130.63	122.93
25	LO	127	ARG	CD-NE-CZ	6.11	132.96	124.40
25	LO	144	ARG	CD-NE-CZ	6.11	132.96	124.40
33	LW	379	ARG	CD-NE-CZ	6.11	132.96	124.40
34	LX	176	ARG	CD-NE-CZ	6.11	132.96	124.40
36	LZ	196	ARG	CD-NE-CZ	6.11	132.96	124.40
38	Lb	842	ARG	CD-NE-CZ	6.11	132.96	124.40
43	Lg	97	ARG	CD-NE-CZ	6.11	132.96	124.40
45	Li	601	ARG	CD-NE-CZ	6.11	132.96	124.40
55	Ls	410	PRO	CA-C-N	6.11	128.47	120.28
55	Ls	410	PRO	C-N-CA	6.11	128.47	120.28
60	Lx	370	ARG	CD-NE-CZ	6.11	132.96	124.40
14	LD	364	ARG	CD-NE-CZ	6.11	132.96	124.40
14	LD	543	ARG	CD-NE-CZ	6.11	132.96	124.40
24	LN	328	ARG	CD-NE-CZ	6.11	132.96	124.40
25	LO	125	ARG	CD-NE-CZ	6.11	132.96	124.40
64	UB	268	ARG	CD-NE-CZ	6.11	132.96	124.40
4	L3	505	ARG	CD-NE-CZ	6.11	132.95	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	L9	460	HIS	CA-CB-CG	6.11	119.91	113.80
25	LO	9	ARG	CD-NE-CZ	6.11	132.96	124.40
27	LQ	351	ARG	CD-NE-CZ	6.11	132.95	124.40
27	LQ	396	ARG	CD-NE-CZ	6.11	132.95	124.40
43	Lg	230	ARG	CD-NE-CZ	6.11	132.96	124.40
44	Lh	436	ARG	CD-NE-CZ	6.11	132.96	124.40
62	Lz	142	ARG	CD-NE-CZ	6.11	132.95	124.40
13	LC	241	SER	CA-C-N	6.11	129.24	120.56
13	LC	241	SER	C-N-CA	6.11	129.24	120.56
24	LN	341	ARG	CD-NE-CZ	6.11	132.95	124.40
46	Lj	5	ARG	CD-NE-CZ	6.11	132.95	124.40
52	Lp	623	ARG	CD-NE-CZ	6.11	132.95	124.40
40	Ld	612	ARG	CD-NE-CZ	6.11	132.95	124.40
52	Lp	627	ARG	CD-NE-CZ	6.11	132.95	124.40
56	Lt	244	ARG	CD-NE-CZ	6.11	132.95	124.40
61	Ly	383	ARG	CD-NE-CZ	6.11	132.95	124.40
4	L3	734	ARG	CD-NE-CZ	6.11	132.95	124.40
13	LC	319	ARG	CD-NE-CZ	6.11	132.95	124.40
15	LE	371	ARG	CD-NE-CZ	6.11	132.95	124.40
20	LJ	291	ARG	CD-NE-CZ	6.11	132.95	124.40
28	LR	36	ARG	CD-NE-CZ	6.11	132.95	124.40
36	LZ	27	ARG	CD-NE-CZ	6.11	132.95	124.40
38	Lb	404	ARG	CD-NE-CZ	6.11	132.95	124.40
40	Ld	490	ARG	CD-NE-CZ	6.11	132.95	124.40
44	Lh	458	TYR	CA-C-N	6.11	130.00	122.37
44	Lh	458	TYR	C-N-CA	6.11	130.00	122.37
43	Lg	123	ARG	CD-NE-CZ	6.10	132.95	124.40
52	Lp	583	ARG	CD-NE-CZ	6.10	132.94	124.40
52	Lp	706	ARG	CD-NE-CZ	6.10	132.95	124.40
52	Lp	709	ARG	CD-NE-CZ	6.10	132.95	124.40
4	L3	424	ARG	CD-NE-CZ	6.10	132.94	124.40
26	LP	257	ARG	CD-NE-CZ	6.10	132.94	124.40
38	Lb	308	GLU	CA-C-N	6.10	130.89	122.77
38	Lb	308	GLU	C-N-CA	6.10	130.89	122.77
40	Ld	594	ARG	CD-NE-CZ	6.10	132.94	124.40
47	Lk	408	PHE	CA-CB-CG	6.10	119.90	113.80
51	Lo	302	ARG	CD-NE-CZ	6.10	132.94	124.40
61	Ly	363	ARG	CD-NE-CZ	6.10	132.94	124.40
37	La	29	HIS	CA-CB-CG	6.10	119.90	113.80
51	Lo	147	ARG	CD-NE-CZ	6.10	132.94	124.40
56	Lt	265	ARG	CD-NE-CZ	6.10	132.94	124.40
68	UF	8	ARG	CD-NE-CZ	6.10	132.94	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	UG	257	ARG	CA-C-N	6.10	130.24	122.37
69	UG	257	ARG	C-N-CA	6.10	130.24	122.37
32	LV	407	ARG	CD-NE-CZ	6.10	132.94	124.40
37	La	39	ARG	CD-NE-CZ	6.10	132.94	124.40
41	Le	427	ARG	CD-NE-CZ	6.10	132.94	124.40
57	Lu	464	GLU	CA-C-N	6.10	131.13	123.14
57	Lu	464	GLU	C-N-CA	6.10	131.13	123.14
61	Ly	586	ARG	CD-NE-CZ	6.10	132.94	124.40
3	L2	45	ARG	CD-NE-CZ	6.10	132.94	124.40
33	LW	471	ARG	CD-NE-CZ	6.10	132.94	124.40
43	Lg	234	ARG	CD-NE-CZ	6.10	132.94	124.40
49	Lm	356	LEU	CA-C-N	6.10	130.07	121.66
49	Lm	356	LEU	C-N-CA	6.10	130.07	121.66
51	Lo	224	ARG	CD-NE-CZ	6.10	132.94	124.40
57	Lu	269	ARG	CD-NE-CZ	6.10	132.94	124.40
20	LJ	410	ARG	CD-NE-CZ	6.10	132.93	124.40
67	UE	155	GLN	CA-C-N	6.10	130.88	122.77
67	UE	155	GLN	C-N-CA	6.10	130.88	122.77
5	L4	586	ARG	CD-NE-CZ	6.09	132.93	124.40
20	LJ	113	ARG	CD-NE-CZ	6.09	132.93	124.40
32	LV	889	ARG	CD-NE-CZ	6.09	132.93	124.40
35	LY	333	ARG	CD-NE-CZ	6.09	132.93	124.40
35	LY	534	ASP	CA-C-N	6.09	128.36	120.44
35	LY	534	ASP	C-N-CA	6.09	128.36	120.44
38	Lb	791	ARG	CD-NE-CZ	6.09	132.93	124.40
43	Lg	86	ARG	CD-NE-CZ	6.09	132.93	124.40
52	Lp	621	ARG	CD-NE-CZ	6.09	132.93	124.40
61	Ly	286	VAL	CA-C-N	6.09	131.04	123.12
61	Ly	286	VAL	C-N-CA	6.09	131.04	123.12
19	LI	42	GLY	N-CA-C	6.09	119.09	110.74
20	LJ	312	ARG	CD-NE-CZ	6.09	132.93	124.40
1	L0	427	ARG	CD-NE-CZ	6.09	132.93	124.40
14	LD	491	ASP	CA-C-N	6.09	130.87	122.77
14	LD	491	ASP	C-N-CA	6.09	130.87	122.77
20	LJ	170	ARG	CD-NE-CZ	6.09	132.93	124.40
29	LS	143	VAL	CA-C-N	6.09	130.52	122.30
29	LS	143	VAL	C-N-CA	6.09	130.52	122.30
46	Lj	114	ARG	CD-NE-CZ	6.09	132.93	124.40
55	Ls	385	ARG	CD-NE-CZ	6.09	132.93	124.40
20	LJ	292	ARG	CD-NE-CZ	6.09	132.92	124.40
20	LJ	331	ARG	CD-NE-CZ	6.09	132.93	124.40
28	LR	25	ARG	CD-NE-CZ	6.09	132.93	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	526	ARG	CD-NE-CZ	6.09	132.93	124.40
53	Lq	525	SER	CA-C-N	6.09	130.87	122.77
53	Lq	525	SER	C-N-CA	6.09	130.87	122.77
55	Ls	367	ARG	CD-NE-CZ	6.09	132.93	124.40
62	Lz	147	ARG	CD-NE-CZ	6.09	132.92	124.40
15	LE	383	ARG	CD-NE-CZ	6.09	132.92	124.40
33	LW	439	ARG	CD-NE-CZ	6.09	132.92	124.40
46	Lj	113	ARG	CD-NE-CZ	6.09	132.92	124.40
11	LA	131	ARG	CD-NE-CZ	6.09	132.92	124.40
27	LQ	381	ARG	CD-NE-CZ	6.09	132.92	124.40
32	LV	613	ARG	CD-NE-CZ	6.09	132.92	124.40
38	Lb	314	ARG	CD-NE-CZ	6.09	132.92	124.40
38	Lb	355	ARG	CD-NE-CZ	6.09	132.92	124.40
42	Lf	314	ARG	CD-NE-CZ	6.09	132.92	124.40
44	Lh	389	CYS	CA-C-N	6.09	131.11	123.14
44	Lh	389	CYS	C-N-CA	6.09	131.11	123.14
55	Ls	359	ARG	CD-NE-CZ	6.09	132.92	124.40
68	UF	36	PHE	CA-CB-CG	6.09	119.89	113.80
23	LM	7	PHE	CA-CB-CG	6.08	119.89	113.80
35	LY	260	ARG	CD-NE-CZ	6.08	132.92	124.40
52	Lp	652	ARG	CD-NE-CZ	6.08	132.92	124.40
59	Lw	143	ASN	CA-CB-CG	6.08	118.69	112.60
8	L7	70	ARG	CD-NE-CZ	6.08	132.92	124.40
40	Ld	359	ARG	CD-NE-CZ	6.08	132.92	124.40
49	Lm	291	ARG	CD-NE-CZ	6.08	132.92	124.40
4	L3	570	ARG	CD-NE-CZ	6.08	132.91	124.40
16	LF	188	ARG	CD-NE-CZ	6.08	132.91	124.40
34	LX	109	ARG	CD-NE-CZ	6.08	132.91	124.40
35	LY	276	THR	CA-C-N	6.08	131.03	123.12
35	LY	276	THR	C-N-CA	6.08	131.03	123.12
38	Lb	720	ARG	CD-NE-CZ	6.08	132.91	124.40
44	Lh	412	PHE	CA-CB-CG	6.08	119.88	113.80
44	Lh	414	ARG	CD-NE-CZ	6.08	132.91	124.40
47	Lk	474	ARG	CD-NE-CZ	6.08	132.91	124.40
49	Lm	327	ILE	CA-C-N	6.08	130.51	122.30
49	Lm	327	ILE	C-N-CA	6.08	130.51	122.30
61	Ly	680	ARG	CD-NE-CZ	6.08	132.91	124.40
69	UG	375	ARG	CD-NE-CZ	6.08	132.91	124.40
38	Lb	494	ARG	CD-NE-CZ	6.08	132.91	124.40
6	L5	468	ARG	CD-NE-CZ	6.08	132.91	124.40
8	L7	13	ARG	CD-NE-CZ	6.08	132.91	124.40
13	LC	556	VAL	CA-C-N	6.08	130.51	122.30

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	LC	556	VAL	C-N-CA	6.08	130.51	122.30
32	LV	370	ARG	CD-NE-CZ	6.08	132.91	124.40
46	Lj	10	ARG	CD-NE-CZ	6.08	132.91	124.40
49	Lm	348	VAL	CA-C-N	6.08	131.11	122.72
49	Lm	348	VAL	C-N-CA	6.08	131.11	122.72
52	Lp	456	ARG	CD-NE-CZ	6.08	132.91	124.40
55	Ls	372	ARG	CD-NE-CZ	6.08	132.91	124.40
56	Lt	51	PHE	CA-CB-CG	6.08	119.88	113.80
61	Ly	333	ARG	CD-NE-CZ	6.08	132.91	124.40
68	UF	61	ARG	CD-NE-CZ	6.08	132.91	124.40
39	Lc	594	ARG	CD-NE-CZ	6.08	132.91	124.40
59	Lw	166	ARG	CD-NE-CZ	6.08	132.91	124.40
61	Ly	541	GLY	N-CA-C	6.08	120.65	110.56
1	L0	396	ARG	CD-NE-CZ	6.08	132.91	124.40
22	LL	535	ARG	CD-NE-CZ	6.08	132.91	124.40
23	LM	6	ARG	CD-NE-CZ	6.08	132.91	124.40
45	Li	363	ARG	CD-NE-CZ	6.08	132.91	124.40
49	Lm	372	ARG	CD-NE-CZ	6.08	132.91	124.40
12	LB	92	THR	CA-C-N	6.07	130.50	123.15
12	LB	92	THR	C-N-CA	6.07	130.50	123.15
18	LH	236	ARG	CD-NE-CZ	6.07	132.90	124.40
20	LJ	31	ARG	CD-NE-CZ	6.07	132.90	124.40
39	Lc	142	ARG	CD-NE-CZ	6.07	132.90	124.40
39	Lc	329	ASP	CA-C-N	6.07	128.91	120.29
39	Lc	329	ASP	C-N-CA	6.07	128.91	120.29
60	Lx	339	ARG	CD-NE-CZ	6.07	132.90	124.40
64	UB	339	ARG	CD-NE-CZ	6.07	132.90	124.40
4	L3	724	ARG	CD-NE-CZ	6.07	132.90	124.40
4	L3	727	GLN	CA-C-N	6.07	129.49	120.87
4	L3	727	GLN	C-N-CA	6.07	129.49	120.87
54	Lr	260	GLY	CA-C-N	6.07	129.29	120.91
54	Lr	260	GLY	C-N-CA	6.07	129.29	120.91
3	L2	81	ARG	CD-NE-CZ	6.07	132.89	124.40
26	LP	115	ARG	CD-NE-CZ	6.07	132.89	124.40
30	LT	15	ARG	CD-NE-CZ	6.07	132.89	124.40
40	Ld	344	ARG	CD-NE-CZ	6.07	132.89	124.40
40	Ld	531	ARG	CD-NE-CZ	6.07	132.90	124.40
41	Le	573	ARG	CD-NE-CZ	6.07	132.90	124.40
3	L2	171	ARG	CD-NE-CZ	6.07	132.89	124.40
9	L8	24	GLY	CA-C-O	-6.07	117.94	122.37
13	LC	363	ARG	CD-NE-CZ	6.07	132.89	124.40
20	LJ	5	ARG	CD-NE-CZ	6.07	132.89	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	LJ	230	ARG	CD-NE-CZ	6.07	132.89	124.40
27	LQ	359	ARG	CD-NE-CZ	6.07	132.89	124.40
32	LV	1084	TRP	CA-C-N	6.07	130.84	122.77
32	LV	1084	TRP	C-N-CA	6.07	130.84	122.77
38	Lb	753	ARG	CD-NE-CZ	6.07	132.89	124.40
51	Lo	145	PHE	CA-CB-CG	6.07	119.86	113.80
53	Lq	125	ARG	CD-NE-CZ	6.07	132.89	124.40
61	Ly	518	ILE	CA-C-N	6.07	131.37	123.00
61	Ly	518	ILE	C-N-CA	6.07	131.37	123.00
25	LO	343	ARG	CD-NE-CZ	6.06	132.89	124.40
68	UF	19	ILE	CA-C-N	6.06	128.32	120.44
68	UF	19	ILE	C-N-CA	6.06	128.32	120.44
13	LC	150	ARG	CA-C-N	6.06	129.32	122.59
13	LC	150	ARG	C-N-CA	6.06	129.32	122.59
29	LS	73	ARG	CD-NE-CZ	6.06	132.88	124.40
53	Lq	647	ARG	CD-NE-CZ	6.06	132.89	124.40
1	L0	337	GLY	CA-C-N	6.06	129.94	122.37
1	L0	337	GLY	C-N-CA	6.06	129.94	122.37
1	L0	375	PRO	CA-C-N	6.06	131.00	123.12
1	L0	375	PRO	C-N-CA	6.06	131.00	123.12
20	LJ	22	ARG	CD-NE-CZ	6.06	132.88	124.40
25	LO	116	ARG	CD-NE-CZ	6.06	132.88	124.40
52	Lp	605	HIS	CA-CB-CG	6.06	119.86	113.80
1	L0	618	ARG	CD-NE-CZ	6.06	132.88	124.40
46	Lj	74	ARG	CD-NE-CZ	6.06	132.88	124.40
68	UF	23	ASP	CA-CB-CG	6.06	118.66	112.60
2	L1	499	ARG	CD-NE-CZ	6.05	132.88	124.40
17	LG	240	ASN	CA-CB-CG	6.05	118.65	112.60
22	LL	909	ARG	CD-NE-CZ	6.05	132.88	124.40
37	La	78	ARG	CD-NE-CZ	6.05	132.88	124.40
61	Ly	543	ARG	CD-NE-CZ	6.05	132.88	124.40
36	LZ	70	ARG	CD-NE-CZ	6.05	132.87	124.40
53	Lq	157	ALA	CA-C-N	6.05	128.37	120.26
53	Lq	157	ALA	C-N-CA	6.05	128.37	120.26
60	Lx	313	ARG	CD-NE-CZ	6.05	132.87	124.40
67	UE	203	MET	CA-C-N	6.05	128.39	120.28
67	UE	203	MET	C-N-CA	6.05	128.39	120.28
13	LC	567	ARG	CD-NE-CZ	6.05	132.87	124.40
20	LJ	284	ARG	CD-NE-CZ	6.05	132.87	124.40
22	LL	298	ARG	CD-NE-CZ	6.05	132.87	124.40
35	LY	464	ARG	CD-NE-CZ	6.05	132.87	124.40
38	Lb	721	ARG	CD-NE-CZ	6.05	132.87	124.40

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Li	673	ARG	CD-NE-CZ	6.05	132.87	124.40
25	LO	134	ARG	CD-NE-CZ	6.05	132.86	124.40
55	Ls	373	ARG	CD-NE-CZ	6.05	132.87	124.40
13	LC	291	ARG	CD-NE-CZ	6.04	132.86	124.40
24	LN	256	ARG	CD-NE-CZ	6.04	132.86	124.40
5	L4	355	ARG	CD-NE-CZ	6.04	132.86	124.40
13	LC	178	ARG	CD-NE-CZ	6.04	132.85	124.40
28	LR	22	ARG	CD-NE-CZ	6.04	132.86	124.40
36	LZ	112	VAL	CA-C-N	6.04	131.03	122.09
36	LZ	112	VAL	C-N-CA	6.04	131.03	122.09
20	LJ	400	ALA	CA-C-N	6.04	129.92	122.37
20	LJ	400	ALA	C-N-CA	6.04	129.92	122.37
51	Lo	120	ARG	CD-NE-CZ	6.04	132.85	124.40
62	Lz	233	ASN	CA-C-N	6.04	131.05	123.14
62	Lz	233	ASN	C-N-CA	6.04	131.05	123.14
48	Ll	38	ARG	CA-C-N	6.04	128.86	120.29
48	Ll	38	ARG	C-N-CA	6.04	128.86	120.29
60	Lx	307	VAL	CA-C-N	6.04	131.39	123.06
60	Lx	307	VAL	C-N-CA	6.04	131.39	123.06
8	L7	48	VAL	CA-C-N	6.04	131.50	123.05
8	L7	48	VAL	C-N-CA	6.04	131.50	123.05
38	Lb	296	ARG	CD-NE-CZ	6.04	132.85	124.40
39	Lc	481	LEU	CA-C-N	6.04	128.29	120.44
39	Lc	481	LEU	C-N-CA	6.04	128.29	120.44
42	Lf	334	ARG	CD-NE-CZ	6.04	132.85	124.40
17	LG	214	ARG	CD-NE-CZ	6.03	132.85	124.40
37	La	85	ARG	CD-NE-CZ	6.03	132.85	124.40
38	Lb	417	ASP	CA-CB-CG	6.03	118.63	112.60
55	Ls	419	PRO	CA-C-N	6.03	128.97	120.28
55	Ls	419	PRO	C-N-CA	6.03	128.97	120.28
61	Ly	338	ARG	CD-NE-CZ	6.03	132.84	124.40
1	L0	258	ARG	CD-NE-CZ	6.03	132.84	124.40
2	L1	507	SER	CA-C-N	6.03	131.04	123.14
2	L1	507	SER	C-N-CA	6.03	131.04	123.14
32	LV	516	ALA	CA-C-N	6.03	128.28	120.44
32	LV	516	ALA	C-N-CA	6.03	128.28	120.44
64	UB	272	PHE	CA-CB-CG	6.03	119.83	113.80
7	L6	242	ARG	CD-NE-CZ	6.03	132.84	124.40
30	LT	53	ASN	CA-CB-CG	6.03	118.63	112.60
9	L8	116	ARG	CD-NE-CZ	6.03	132.84	124.40
9	L8	225	PHE	CA-C-N	6.03	131.12	123.10
9	L8	225	PHE	C-N-CA	6.03	131.12	123.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	LO	122	ILE	N-CA-CB	6.03	117.51	110.82
61	Ly	652	ARG	CD-NE-CZ	6.03	132.84	124.40
6	L5	476	ARG	CD-NE-CZ	6.03	132.84	124.40
38	Lb	727	ARG	CD-NE-CZ	6.03	132.84	124.40
54	Lr	79	ARG	CD-NE-CZ	6.03	132.84	124.40
25	LO	133	ARG	CD-NE-CZ	6.02	132.83	124.40
32	LV	474	ARG	CD-NE-CZ	6.02	132.83	124.40
64	UB	294	GLY	N-CA-C	6.02	119.92	111.19
5	L4	587	ARG	CD-NE-CZ	6.02	132.83	124.40
9	L8	234	ARG	CD-NE-CZ	6.02	132.83	124.40
20	LJ	395	ARG	CD-NE-CZ	6.02	132.83	124.40
20	LJ	421	ARG	CD-NE-CZ	6.02	132.83	124.40
38	Lb	505	ARG	CD-NE-CZ	6.02	132.83	124.40
48	Ll	47	GLN	CA-C-N	6.02	131.03	123.14
48	Ll	47	GLN	C-N-CA	6.02	131.03	123.14
53	Lq	120	ARG	CD-NE-CZ	6.02	132.83	124.40
62	Lz	172	LEU	CA-C-N	6.02	130.78	122.77
62	Lz	172	LEU	C-N-CA	6.02	130.78	122.77
53	Lq	609	PRO	CA-C-N	6.02	129.73	122.26
53	Lq	609	PRO	C-N-CA	6.02	129.73	122.26
60	Lx	358	ARG	CD-NE-CZ	6.02	132.83	124.40
22	LL	945	ARG	CD-NE-CZ	6.02	132.83	124.40
4	L3	662	HIS	CA-C-N	6.02	129.41	120.87
4	L3	662	HIS	C-N-CA	6.02	129.41	120.87
12	LB	68	ALA	CA-C-N	6.02	128.83	120.29
12	LB	68	ALA	C-N-CA	6.02	128.83	120.29
13	LC	575	ARG	CD-NE-CZ	6.02	132.82	124.40
56	Lt	131	ARG	CD-NE-CZ	6.02	132.82	124.40
39	Lc	368	LEU	CA-C-N	6.02	130.91	120.68
39	Lc	368	LEU	C-N-CA	6.02	130.91	120.68
13	LC	169	ARG	CA-C-N	6.01	128.83	120.29
13	LC	169	ARG	C-N-CA	6.01	128.83	120.29
32	LV	671	PHE	CA-CB-CG	6.01	119.81	113.80
39	Lc	148	ARG	CD-NE-CZ	6.01	132.82	124.40
5	L4	194	HIS	CA-CB-CG	6.01	119.81	113.80
53	Lq	522	HIS	CA-C-N	6.01	128.25	120.44
53	Lq	522	HIS	C-N-CA	6.01	128.25	120.44
64	UB	262	ASN	CA-CB-CG	6.01	118.61	112.60
17	LG	235	ARG	CD-NE-CZ	6.00	132.81	124.40
25	LO	110	ARG	CA-C-N	6.00	130.00	122.43
25	LO	110	ARG	C-N-CA	6.00	130.00	122.43
18	LH	202	HIS	CA-CB-CG	6.00	119.80	113.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	L9	465	PHE	CA-C-N	6.00	128.79	120.63
10	L9	465	PHE	C-N-CA	6.00	128.79	120.63
37	La	71	LEU	CA-C-N	6.00	129.87	122.37
37	La	71	LEU	C-N-CA	6.00	129.87	122.37
43	Lg	140	ARG	CD-NE-CZ	6.00	132.80	124.40
19	LI	27	PHE	CA-CB-CG	6.00	119.80	113.80
21	LK	95	ASN	CA-C-N	6.00	131.08	123.10
21	LK	95	ASN	C-N-CA	6.00	131.08	123.10
35	LY	474	PHE	CA-CB-CG	6.00	119.80	113.80
1	L0	386	VAL	CA-C-N	6.00	130.00	121.42
1	L0	386	VAL	C-N-CA	6.00	130.00	121.42
24	LN	325	HIS	CA-C-N	6.00	131.00	123.14
24	LN	325	HIS	C-N-CA	6.00	131.00	123.14
25	LO	270	ASN	CA-C-N	6.00	129.43	120.31
25	LO	270	ASN	C-N-CA	6.00	129.43	120.31
69	UG	313	ARG	CD-NE-CZ	6.00	132.79	124.40
11	LA	73	GLY	CA-C-N	5.99	130.63	122.84
11	LA	73	GLY	C-N-CA	5.99	130.63	122.84
25	LO	11	ARG	CA-C-N	5.99	131.07	123.10
25	LO	11	ARG	C-N-CA	5.99	131.07	123.10
54	Lr	27	GLN	CA-C-N	5.99	130.91	123.12
54	Lr	27	GLN	C-N-CA	5.99	130.91	123.12
1	L0	315	ASN	CA-CB-CG	5.99	118.59	112.60
38	Lb	671	PHE	CA-CB-CG	5.99	119.79	113.80
9	L8	156	THR	CA-C-N	5.99	128.80	120.29
9	L8	156	THR	C-N-CA	5.99	128.80	120.29
20	LJ	7	ARG	CD-NE-CZ	5.99	132.79	124.40
1	L0	612	GLU	CA-C-N	5.99	128.79	120.29
1	L0	612	GLU	C-N-CA	5.99	128.79	120.29
11	LA	108	ILE	CA-C-N	5.99	130.99	123.14
11	LA	108	ILE	C-N-CA	5.99	130.99	123.14
20	LJ	20	ASP	CA-CB-CG	5.99	118.59	112.60
61	Ly	458	ARG	CA-C-N	5.99	130.40	123.15
61	Ly	458	ARG	C-N-CA	5.99	130.40	123.15
13	LC	607	ARG	CD-NE-CZ	5.99	132.78	124.40
40	Ld	560	GLN	CA-C-N	5.99	130.73	122.77
40	Ld	560	GLN	C-N-CA	5.99	130.73	122.77
11	LA	21	HIS	CA-C-N	5.98	131.06	123.10
11	LA	21	HIS	C-N-CA	5.98	131.06	123.10
29	LS	39	PRO	CA-C-N	5.98	130.09	122.37
29	LS	39	PRO	C-N-CA	5.98	130.09	122.37
58	Lv	65	THR	CA-C-N	5.98	131.31	122.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
58	Lv	65	THR	C-N-CA	5.98	131.31	122.99
44	Lh	355	PRO	CA-C-N	5.98	130.98	123.14
44	Lh	355	PRO	C-N-CA	5.98	130.98	123.14
24	LN	325	HIS	CA-CB-CG	5.98	119.78	113.80
27	LQ	401	GLU	CA-C-N	5.98	131.05	123.10
27	LQ	401	GLU	C-N-CA	5.98	131.05	123.10
32	LV	656	PHE	CA-CB-CG	5.98	119.78	113.80
33	LW	234	GLU	CA-C-N	5.98	131.05	123.10
33	LW	234	GLU	C-N-CA	5.98	131.05	123.10
52	Lp	414	ARG	CD-NE-CZ	5.98	132.77	124.40
61	Ly	464	ARG	CA-C-N	5.98	131.06	123.10
61	Ly	464	ARG	C-N-CA	5.98	131.06	123.10
57	Lu	296	PHE	CA-C-N	5.98	128.29	120.28
57	Lu	296	PHE	C-N-CA	5.98	128.29	120.28
44	Lh	478	ARG	CD-NE-CZ	5.98	132.77	124.40
21	LK	165	ARG	CA-C-N	5.98	130.97	122.72
21	LK	165	ARG	C-N-CA	5.98	130.97	122.72
48	Ll	101	PHE	CA-CB-CG	5.97	119.77	113.80
51	Lo	163	PHE	CA-CB-CG	5.97	119.77	113.80
70	UH	277	LYS	CA-C-N	5.97	130.37	122.30
70	UH	277	LYS	C-N-CA	5.97	130.37	122.30
5	L4	517	GLU	CA-C-N	5.97	131.04	123.10
5	L4	517	GLU	C-N-CA	5.97	131.04	123.10
23	LM	31	ILE	N-CA-CB	5.97	117.04	110.53
37	La	104	LEU	CA-C-N	5.97	128.56	120.44
37	La	104	LEU	C-N-CA	5.97	128.56	120.44
41	Le	550	ARG	CD-NE-CZ	5.97	132.76	124.40
25	LO	150	THR	CA-C-N	5.97	129.90	121.66
25	LO	150	THR	C-N-CA	5.97	129.90	121.66
56	Lt	277	GLN	CA-C-N	5.97	128.08	120.56
56	Lt	277	GLN	C-N-CA	5.97	128.08	120.56
8	L7	46	ILE	CA-C-N	5.96	130.60	122.19
8	L7	46	ILE	C-N-CA	5.96	130.60	122.19
24	LN	279	ARG	CD-NE-CZ	5.96	132.75	124.40
39	Lc	247	ARG	CD-NE-CZ	5.96	132.75	124.40
9	L8	13	GLY	CA-C-N	5.96	130.95	123.14
9	L8	13	GLY	C-N-CA	5.96	130.95	123.14
46	Lj	46	ALA	CA-C-N	5.96	128.19	120.44
46	Lj	46	ALA	C-N-CA	5.96	128.19	120.44
12	LB	106	SER	CA-C-N	5.96	128.19	120.56
12	LB	106	SER	C-N-CA	5.96	128.19	120.56
61	Ly	596	ARG	CA-C-N	5.96	129.19	120.91

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
61	Ly	596	ARG	C-N-CA	5.96	129.19	120.91
104	lX	41	U	O4'-C1'-N1	5.96	117.14	108.20
9	L8	45	ARG	NE-CZ-NH2	5.95	124.56	119.20
10	L9	457	PHE	CA-C-N	5.95	130.69	122.77
10	L9	457	PHE	C-N-CA	5.95	130.69	122.77
25	LO	109	ARG	CA-C-N	5.95	130.94	122.72
25	LO	109	ARG	C-N-CA	5.95	130.94	122.72
21	LK	109	PHE	CA-CB-CG	5.95	119.75	113.80
33	LW	261	ALA	CA-C-N	5.95	131.21	123.00
33	LW	261	ALA	C-N-CA	5.95	131.21	123.00
38	Lb	419	GLN	CA-C-N	5.95	128.25	120.28
38	Lb	419	GLN	C-N-CA	5.95	128.25	120.28
22	LL	685	ILE	N-CA-CB	5.95	117.01	110.53
14	LD	342	LYS	CA-C-N	5.94	129.06	120.98
14	LD	342	LYS	C-N-CA	5.94	129.06	120.98
42	Lf	289	PHE	CA-CB-CG	5.94	119.74	113.80
25	LO	155	GLU	CA-C-N	5.94	130.92	122.72
25	LO	155	GLU	C-N-CA	5.94	130.92	122.72
32	LV	795	HIS	CA-CB-CG	5.94	119.74	113.80
13	LC	455	LEU	CA-C-N	5.94	130.31	122.95
13	LC	455	LEU	C-N-CA	5.94	130.31	122.95
23	LM	30	GLY	CA-C-N	5.94	129.85	121.66
23	LM	30	GLY	C-N-CA	5.94	129.85	121.66
32	LV	1010	LEU	CA-C-N	5.94	128.51	120.44
32	LV	1010	LEU	C-N-CA	5.94	128.51	120.44
34	LX	142	ASP	CA-CB-CG	5.94	118.54	112.60
49	Lm	424	GLN	CA-C-N	5.94	128.23	120.28
49	Lm	424	GLN	C-N-CA	5.94	128.23	120.28
1	L0	466	PHE	CA-CB-CG	5.93	119.73	113.80
48	Ll	37	HIS	CA-C-N	5.93	128.72	120.29
48	Ll	37	HIS	C-N-CA	5.93	128.72	120.29
37	La	106	ASP	CA-C-N	5.93	126.59	120.60
37	La	106	ASP	C-N-CA	5.93	126.59	120.60
40	Ld	347	ALA	CA-C-N	5.93	129.32	120.31
40	Ld	347	ALA	C-N-CA	5.93	129.32	120.31
35	LY	473	TYR	CA-C-N	5.93	128.15	120.44
35	LY	473	TYR	C-N-CA	5.93	128.15	120.44
51	Lo	271	ALA	CA-C-N	5.92	131.46	123.46
51	Lo	271	ALA	C-N-CA	5.92	131.46	123.46
61	Ly	557	LYS	CA-C-N	5.92	130.90	123.14
61	Ly	557	LYS	C-N-CA	5.92	130.90	123.14
21	LK	109	PHE	CA-C-N	5.92	130.90	123.14

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
21	LK	109	PHE	C-N-CA	5.92	130.90	123.14
14	LD	335	LEU	CA-C-N	5.92	130.54	122.84
14	LD	335	LEU	C-N-CA	5.92	130.54	122.84
44	Lh	409	CYS	CA-C-N	5.92	128.49	120.44
44	Lh	409	CYS	C-N-CA	5.92	128.49	120.44
30	LT	30	TYR	CA-C-N	5.92	130.89	123.14
30	LT	30	TYR	C-N-CA	5.92	130.89	123.14
32	LV	521	LEU	CA-C-N	5.92	128.21	120.28
32	LV	521	LEU	C-N-CA	5.92	128.21	120.28
12	LB	18	ARG	CD-NE-CZ	5.92	132.68	124.40
22	LL	196	GLY	CA-C-N	5.92	131.34	123.00
22	LL	196	GLY	C-N-CA	5.92	131.34	123.00
28	LR	54	THR	CA-C-N	5.92	130.89	123.14
28	LR	54	THR	C-N-CA	5.92	130.89	123.14
35	LY	264	PHE	CA-CB-CG	5.92	119.72	113.80
36	LZ	22	ARG	CA-C-N	5.91	128.20	120.28
36	LZ	22	ARG	C-N-CA	5.91	128.20	120.28
16	LF	161	PRO	CA-C-N	5.91	128.68	120.29
16	LF	161	PRO	C-N-CA	5.91	128.68	120.29
24	LN	309	PHE	CA-C-N	5.91	129.02	120.98
24	LN	309	PHE	C-N-CA	5.91	129.02	120.98
1	L0	476	PHE	CA-CB-CG	5.91	119.71	113.80
42	Lf	347	THR	CA-C-N	5.91	130.88	123.14
42	Lf	347	THR	C-N-CA	5.91	130.88	123.14
43	Lg	188	HIS	CA-CB-CG	5.91	119.71	113.80
17	LG	236	ARG	CD-NE-CZ	5.91	132.67	124.40
10	L9	457	PHE	CA-CB-CG	5.91	119.70	113.80
14	LD	368	PHE	CA-CB-CG	5.91	119.71	113.80
38	Lb	485	LEU	CA-C-N	5.91	130.27	122.95
38	Lb	485	LEU	C-N-CA	5.91	130.27	122.95
40	Ld	637	ARG	CD-NE-CZ	5.91	132.67	124.40
14	LD	476	TYR	CA-C-N	5.90	129.86	121.42
14	LD	476	TYR	C-N-CA	5.90	129.86	121.42
14	LD	492	ARG	CA-C-N	5.90	129.01	120.98
14	LD	492	ARG	C-N-CA	5.90	129.01	120.98
54	Lr	14	LEU	CA-C-N	5.90	131.06	123.03
54	Lr	14	LEU	C-N-CA	5.90	131.06	123.03
9	L8	7	VAL	CA-C-N	5.90	128.67	120.29
9	L8	7	VAL	C-N-CA	5.90	128.67	120.29
47	Lk	503	GLY	CA-C-N	5.90	129.81	121.66
47	Lk	503	GLY	C-N-CA	5.90	129.81	121.66
14	LD	581	TYR	CA-C-N	5.90	129.39	120.95

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	LD	581	TYR	C-N-CA	5.90	129.39	120.95
40	Ld	371	PHE	CA-C-N	5.90	129.65	120.68
40	Ld	371	PHE	C-N-CA	5.90	129.65	120.68
45	Li	711	VAL	CA-C-N	5.90	130.50	122.19
45	Li	711	VAL	C-N-CA	5.90	130.50	122.19
39	Lc	292	LYS	CA-C-N	5.89	128.66	120.29
39	Lc	292	LYS	C-N-CA	5.89	128.66	120.29
32	LV	893	HIS	CA-CB-CG	5.89	119.69	113.80
39	Lc	145	THR	CA-C-N	5.89	130.60	122.77
39	Lc	145	THR	C-N-CA	5.89	130.60	122.77
41	Le	507	PRO	CA-C-N	5.89	131.29	123.05
41	Le	507	PRO	C-N-CA	5.89	131.29	123.05
42	Lf	351	TYR	CA-C-N	5.89	130.60	122.77
42	Lf	351	TYR	C-N-CA	5.89	130.60	122.77
3	L2	74	PHE	CA-CB-CG	5.88	119.68	113.80
32	LV	893	HIS	CA-C-N	5.88	130.70	123.17
32	LV	893	HIS	C-N-CA	5.88	130.70	123.17
42	Lf	190	HIS	CA-CB-CG	5.88	119.68	113.80
20	LJ	335	PHE	CA-C-N	5.88	129.84	122.43
20	LJ	335	PHE	C-N-CA	5.88	129.84	122.43
53	Lq	672	PRO	CA-C-N	5.88	129.67	120.97
53	Lq	672	PRO	C-N-CA	5.88	129.67	120.97
33	LW	418	ALA	CA-C-N	5.88	129.69	121.22
33	LW	418	ALA	C-N-CA	5.88	129.69	121.22
56	Lt	90	GLU	CA-C-N	5.88	128.63	120.29
56	Lt	90	GLU	C-N-CA	5.88	128.63	120.29
14	LD	395	PHE	CA-C-N	5.88	130.78	122.09
14	LD	395	PHE	C-N-CA	5.88	130.78	122.09
33	LW	467	HIS	CA-CB-CG	5.87	119.67	113.80
20	LJ	198	GLU	CA-C-N	5.87	128.15	120.28
20	LJ	198	GLU	C-N-CA	5.87	128.15	120.28
55	Ls	588	ARG	CD-NE-CZ	5.87	132.62	124.40
1	L0	385	ARG	CA-C-N	5.87	130.01	121.80
1	L0	385	ARG	C-N-CA	5.87	130.01	121.80
51	Lo	151	ARG	CD-NE-CZ	5.87	132.62	124.40
41	Le	471	GLU	CA-C-N	5.87	128.14	120.28
41	Le	471	GLU	C-N-CA	5.87	128.14	120.28
13	LC	249	VAL	CA-C-N	5.87	128.62	120.29
13	LC	249	VAL	C-N-CA	5.87	128.62	120.29
61	Ly	500	CYS	CA-C-N	5.87	131.08	123.10
61	Ly	500	CYS	C-N-CA	5.87	131.08	123.10
62	Lz	214	PHE	CA-C-N	5.87	129.06	120.91

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
62	Lz	214	PHE	C-N-CA	5.87	129.06	120.91
39	Lc	156	ALA	CA-C-N	5.86	128.62	120.29
39	Lc	156	ALA	C-N-CA	5.86	128.62	120.29
39	Lc	613	ARG	CA-C-N	5.86	129.20	120.87
39	Lc	613	ARG	C-N-CA	5.86	129.20	120.87
32	LV	613	ARG	CA-C-N	5.86	129.80	121.42
32	LV	613	ARG	C-N-CA	5.86	129.80	121.42
8	L7	87	ASN	CA-CB-CG	5.86	118.46	112.60
49	Lm	277	PHE	CA-CB-CG	5.86	119.66	113.80
1	L0	338	ILE	CA-C-N	5.86	130.00	121.80
1	L0	338	ILE	C-N-CA	5.86	130.00	121.80
1	L0	376	VAL	CA-C-N	5.86	131.08	123.00
1	L0	376	VAL	C-N-CA	5.86	131.08	123.00
11	LA	35	PHE	CA-CB-CG	5.86	119.66	113.80
35	LY	472	GLU	CA-C-N	5.85	128.05	120.44
35	LY	472	GLU	C-N-CA	5.85	128.05	120.44
38	Lb	836	ASP	CA-C-N	5.85	128.05	120.44
38	Lb	836	ASP	C-N-CA	5.85	128.05	120.44
62	Lz	185	SER	CA-C-N	5.85	130.88	123.10
62	Lz	185	SER	C-N-CA	5.85	130.88	123.10
36	LZ	97	LEU	CA-C-N	5.85	128.05	120.44
36	LZ	97	LEU	C-N-CA	5.85	128.05	120.44
1	L0	466	PHE	CA-C-N	5.85	128.60	120.29
1	L0	466	PHE	C-N-CA	5.85	128.60	120.29
19	LI	31	GLY	N-CA-C	5.85	121.44	114.48
13	LC	550	ALA	CA-C-N	5.85	128.04	120.44
13	LC	550	ALA	C-N-CA	5.85	128.04	120.44
30	LT	84	GLY	CA-C-N	5.85	130.44	122.19
30	LT	84	GLY	C-N-CA	5.85	130.44	122.19
63	UA	236	PHE	CA-CB-CG	5.85	119.65	113.80
10	L9	445	GLU	CA-C-N	5.84	129.78	121.42
10	L9	445	GLU	C-N-CA	5.84	129.78	121.42
36	LZ	49	GLY	CA-C-N	5.84	130.59	121.76
36	LZ	49	GLY	C-N-CA	5.84	130.59	121.76
38	Lb	418	LEU	CA-C-N	5.84	128.11	120.28
38	Lb	418	LEU	C-N-CA	5.84	128.11	120.28
3	L2	46	ASP	CA-C-N	5.84	129.02	120.91
3	L2	46	ASP	C-N-CA	5.84	129.02	120.91
40	Ld	518	ARG	CA-C-N	5.84	128.58	120.29
40	Ld	518	ARG	C-N-CA	5.84	128.58	120.29
32	LV	676	PHE	CA-CB-CG	5.83	119.63	113.80
41	Le	607	VAL	CA-C-N	5.83	128.57	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	Le	607	VAL	C-N-CA	5.83	128.57	120.29
20	LJ	215	ALA	CA-C-N	5.83	129.96	121.80
20	LJ	215	ALA	C-N-CA	5.83	129.96	121.80
19	LI	13	LYS	CA-C-N	5.83	130.85	123.10
19	LI	13	LYS	C-N-CA	5.83	130.85	123.10
32	LV	596	SER	CA-C-N	5.83	128.09	120.28
32	LV	596	SER	C-N-CA	5.83	128.09	120.28
20	LJ	238	THR	CA-C-N	5.82	129.16	120.31
20	LJ	238	THR	C-N-CA	5.82	129.16	120.31
39	Lc	534	HIS	CA-CB-CG	5.82	119.62	113.80
60	Lx	292	GLN	CA-C-N	5.82	128.98	120.71
60	Lx	292	GLN	C-N-CA	5.82	128.98	120.71
59	Lw	118	GLU	CA-C-N	5.82	130.84	123.10
59	Lw	118	GLU	C-N-CA	5.82	130.84	123.10
35	LY	427	ARG	CA-C-N	5.82	130.26	122.93
35	LY	427	ARG	C-N-CA	5.82	130.26	122.93
25	LO	153	ARG	CA-C-N	5.82	131.03	123.00
25	LO	153	ARG	C-N-CA	5.82	131.03	123.00
41	Le	550	ARG	CA-C-N	5.82	128.07	120.28
41	Le	550	ARG	C-N-CA	5.82	128.07	120.28
48	Ll	61	THR	CA-C-N	5.81	131.19	122.99
48	Ll	61	THR	C-N-CA	5.81	131.19	122.99
23	LM	9	LEU	CA-C-N	5.81	129.96	122.93
23	LM	9	LEU	C-N-CA	5.81	129.96	122.93
4	L3	625	CYS	N-CA-CB	5.81	117.55	110.17
26	LP	272	PRO	CA-C-N	5.81	127.99	120.44
26	LP	272	PRO	C-N-CA	5.81	127.99	120.44
41	Le	578	ASN	CA-C-N	5.81	129.68	121.61
41	Le	578	ASN	C-N-CA	5.81	129.68	121.61
22	LL	692	ARG	CD-NE-CZ	5.81	132.53	124.40
39	Lc	592	LYS	CA-C-N	5.81	127.99	120.44
39	Lc	592	LYS	C-N-CA	5.81	127.99	120.44
25	LO	244	PHE	CA-C-N	5.80	130.81	123.10
25	LO	244	PHE	C-N-CA	5.80	130.81	123.10
56	Lt	228	HIS	CA-C-N	5.80	127.98	120.44
56	Lt	228	HIS	C-N-CA	5.80	127.98	120.44
8	L7	31	ILE	CA-C-N	5.80	129.49	121.26
8	L7	31	ILE	C-N-CA	5.80	129.49	121.26
19	LI	41	LEU	CA-C-N	5.80	128.43	120.72
19	LI	41	LEU	C-N-CA	5.80	128.43	120.72
29	LS	76	VAL	CA-C-N	5.80	128.86	120.98
29	LS	76	VAL	C-N-CA	5.80	128.86	120.98

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	LV	405	ALA	CA-C-N	5.80	127.97	120.44
32	LV	405	ALA	C-N-CA	5.80	127.97	120.44
47	Lk	506	PHE	CA-C-N	5.80	130.48	122.77
47	Lk	506	PHE	C-N-CA	5.80	130.48	122.77
52	Lp	630	LYS	CA-C-N	5.80	130.48	122.77
52	Lp	630	LYS	C-N-CA	5.80	130.48	122.77
15	LE	687	GLY	N-CA-C	5.79	117.71	110.29
45	Li	697	HIS	CA-CB-CG	5.79	119.59	113.80
47	Lk	410	ALA	CA-C-N	5.79	128.96	120.91
47	Lk	410	ALA	C-N-CA	5.79	128.96	120.91
25	LO	211	SER	CA-C-N	5.79	130.99	123.00
25	LO	211	SER	C-N-CA	5.79	130.99	123.00
28	LR	30	VAL	CA-C-N	5.79	129.70	121.42
28	LR	30	VAL	C-N-CA	5.79	129.70	121.42
43	Lg	134	ARG	N-CA-CB	5.79	118.56	109.94
58	Lv	50	HIS	CA-C-N	5.79	130.99	123.00
58	Lv	50	HIS	C-N-CA	5.79	130.99	123.00
12	LB	12	VAL	CA-C-N	5.79	129.57	121.24
12	LB	12	VAL	C-N-CA	5.79	129.57	121.24
20	LJ	315	PHE	CA-C-N	5.79	130.66	122.09
20	LJ	315	PHE	C-N-CA	5.79	130.66	122.09
13	LC	253	VAL	CA-C-N	5.79	130.98	122.94
13	LC	253	VAL	C-N-CA	5.79	130.98	122.94
38	Lb	870	ASN	CA-C-N	5.79	130.12	122.42
38	Lb	870	ASN	C-N-CA	5.79	130.12	122.42
44	Lh	565	LEU	CA-C-N	5.79	128.51	120.29
44	Lh	565	LEU	C-N-CA	5.79	128.51	120.29
47	Lk	471	GLY	N-CA-C	5.79	118.43	110.56
14	LD	394	HIS	CA-C-N	5.78	131.01	121.99
14	LD	394	HIS	C-N-CA	5.78	131.01	121.99
48	Ll	45	GLN	CA-C-N	5.78	130.79	123.10
48	Ll	45	GLN	C-N-CA	5.78	130.79	123.10
58	Lv	75	ARG	CA-C-N	5.78	130.90	122.69
58	Lv	75	ARG	C-N-CA	5.78	130.90	122.69
21	LK	250	VAL	CA-C-N	5.78	127.95	120.44
21	LK	250	VAL	C-N-CA	5.78	127.95	120.44
24	LN	242	PRO	CA-C-N	5.78	130.21	122.93
24	LN	242	PRO	C-N-CA	5.78	130.21	122.93
39	Lc	319	VAL	CA-C-N	5.78	128.50	120.29
39	Lc	319	VAL	C-N-CA	5.78	128.50	120.29
14	LD	473	ARG	CA-C-N	5.78	130.88	122.85
14	LD	473	ARG	C-N-CA	5.78	130.88	122.85

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
34	LX	134	VAL	CA-C-N	5.78	131.32	122.77
34	LX	134	VAL	C-N-CA	5.78	131.32	122.77
56	Lt	121	HIS	N-CA-CB	5.78	118.45	110.07
33	LW	493	GLU	CA-C-N	5.77	128.41	120.67
33	LW	493	GLU	C-N-CA	5.77	128.41	120.67
69	UG	312	LYS	CA-C-N	5.77	128.49	120.29
69	UG	312	LYS	C-N-CA	5.77	128.49	120.29
12	LB	80	TRP	CA-C-N	5.77	131.13	123.00
12	LB	80	TRP	C-N-CA	5.77	131.13	123.00
25	LO	126	PHE	CA-CB-CG	5.77	119.57	113.80
41	Le	445	GLU	CA-C-N	5.77	127.94	120.44
41	Le	445	GLU	C-N-CA	5.77	127.94	120.44
48	Ll	135	ARG	CA-C-N	5.77	129.67	121.42
48	Ll	135	ARG	C-N-CA	5.77	129.67	121.42
3	L2	34	LYS	CA-C-N	5.77	130.68	122.72
3	L2	34	LYS	C-N-CA	5.77	130.68	122.72
25	LO	253	GLU	CA-C-N	5.77	129.58	122.37
25	LO	253	GLU	C-N-CA	5.77	129.58	122.37
13	LC	441	ALA	CA-C-N	5.76	130.53	123.10
13	LC	441	ALA	C-N-CA	5.76	130.53	123.10
32	LV	256	PRO	CA-C-N	5.76	129.66	121.42
32	LV	256	PRO	C-N-CA	5.76	129.66	121.42
33	LW	437	ALA	CA-C-N	5.76	128.26	120.65
33	LW	437	ALA	C-N-CA	5.76	128.26	120.65
29	LS	113	PRO	CA-C-N	5.76	130.95	122.94
29	LS	113	PRO	C-N-CA	5.76	130.95	122.94
39	Lc	221	ALA	CA-C-N	5.76	129.07	120.31
39	Lc	221	ALA	C-N-CA	5.76	129.07	120.31
42	Lf	321	PRO	CA-C-N	5.76	131.12	123.05
42	Lf	321	PRO	C-N-CA	5.76	131.12	123.05
32	LV	658	ASP	CA-CB-CG	5.76	118.36	112.60
22	LL	277	TYR	CA-C-N	5.76	130.94	123.00
22	LL	277	TYR	C-N-CA	5.76	130.94	123.00
39	Lc	523	GLN	CA-C-N	5.76	127.92	120.44
39	Lc	523	GLN	C-N-CA	5.76	127.92	120.44
54	Lr	187	SER	N-CA-CB	5.76	118.21	109.75
24	LN	280	PHE	CA-CB-CG	5.75	119.55	113.80
52	Lp	475	GLY	CA-C-N	5.75	128.81	120.98
52	Lp	475	GLY	C-N-CA	5.75	128.81	120.98
1	L0	254	PRO	CA-C-N	5.75	128.88	122.55
1	L0	254	PRO	C-N-CA	5.75	128.88	122.55
23	LM	12	PRO	CA-C-N	5.75	130.30	122.19

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	LM	12	PRO	C-N-CA	5.75	130.30	122.19
51	Lo	235	PHE	CA-CB-CG	5.75	119.55	113.80
39	Lc	498	VAL	CA-C-N	5.75	127.81	120.56
39	Lc	498	VAL	C-N-CA	5.75	127.81	120.56
23	LM	73	SER	CA-C-N	5.75	127.98	120.28
23	LM	73	SER	C-N-CA	5.75	127.98	120.28
25	LO	176	TYR	CA-C-N	5.75	130.85	122.69
25	LO	176	TYR	C-N-CA	5.75	130.85	122.69
49	Lm	398	ARG	CA-C-N	5.75	129.72	121.50
49	Lm	398	ARG	C-N-CA	5.75	129.72	121.50
49	Lm	411	GLU	CA-C-N	5.75	130.65	122.72
49	Lm	411	GLU	C-N-CA	5.75	130.65	122.72
61	Ly	548	ILE	N-CA-CB	5.75	116.88	110.62
22	LL	342	ARG	CA-C-N	5.74	130.93	123.00
22	LL	342	ARG	C-N-CA	5.74	130.93	123.00
52	Lp	703	GLU	N-CA-CB	5.74	118.34	110.01
103	lY	8	U	C4'-C3'-O3'	5.74	121.62	113.00
64	UB	382	PRO	CA-C-N	5.74	129.71	121.50
64	UB	382	PRO	C-N-CA	5.74	129.71	121.50
8	L7	14	GLN	CA-C-N	5.74	130.92	123.00
8	L7	14	GLN	C-N-CA	5.74	130.92	123.00
35	LY	454	ILE	N-CA-CB	5.74	116.98	110.72
12	LB	49	ARG	NE-CZ-NH2	5.74	124.37	119.20
32	LV	614	GLU	CA-C-N	5.74	130.97	122.99
32	LV	614	GLU	C-N-CA	5.74	130.97	122.99
38	Lb	632	LEU	CA-C-N	5.74	127.79	120.56
38	Lb	632	LEU	C-N-CA	5.74	127.79	120.56
9	L8	224	PHE	CA-C-N	5.74	130.28	122.19
9	L8	224	PHE	C-N-CA	5.74	130.28	122.19
5	L4	589	GLN	CA-C-N	5.74	129.03	120.31
5	L4	589	GLN	C-N-CA	5.74	129.03	120.31
6	L5	463	PRO	CA-C-N	5.74	129.62	121.42
6	L5	463	PRO	C-N-CA	5.74	129.62	121.42
29	LS	40	VAL	N-CA-CB	5.74	116.97	110.72
47	Lk	515	CYS	CA-C-N	5.74	131.25	122.93
47	Lk	515	CYS	C-N-CA	5.74	131.25	122.93
21	LK	257	GLU	CA-C-N	5.73	129.72	120.55
21	LK	257	GLU	C-N-CA	5.73	129.72	120.55
39	Lc	330	ASP	CA-C-N	5.73	129.37	122.26
39	Lc	330	ASP	C-N-CA	5.73	129.37	122.26
47	Lk	505	THR	CA-C-N	5.73	131.07	122.99
47	Lk	505	THR	C-N-CA	5.73	131.07	122.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	LD	355	VAL	CA-C-N	5.73	129.62	121.42
14	LD	355	VAL	C-N-CA	5.73	129.62	121.42
51	Lo	67	PRO	CA-C-N	5.73	129.61	121.42
51	Lo	67	PRO	C-N-CA	5.73	129.61	121.42
52	Lp	471	LEU	CA-C-N	5.73	127.96	120.28
52	Lp	471	LEU	C-N-CA	5.73	127.96	120.28
32	LV	1057	SER	CA-C-N	5.73	127.96	120.28
32	LV	1057	SER	C-N-CA	5.73	127.96	120.28
78	l6	50	A	C4'-C3'-O3'	5.73	117.99	109.40
13	LC	242	GLY	N-CA-C	5.73	118.87	110.80
23	LM	139	GLU	CA-C-N	5.73	130.95	122.99
23	LM	139	GLU	C-N-CA	5.73	130.95	122.99
25	LO	208	ILE	N-CA-CB	5.73	116.53	110.17
58	Lv	51	LEU	CA-C-N	5.72	130.81	122.85
58	Lv	51	LEU	C-N-CA	5.72	130.81	122.85
61	Ly	324	LYS	CA-C-N	5.72	130.28	122.84
61	Ly	324	LYS	C-N-CA	5.72	130.28	122.84
4	L3	624	ALA	CA-C-N	5.72	129.29	121.74
4	L3	624	ALA	C-N-CA	5.72	129.29	121.74
20	LJ	79	GLN	CA-C-N	5.72	130.36	120.58
20	LJ	79	GLN	C-N-CA	5.72	130.36	120.58
48	Ll	103	LYS	CA-C-N	5.72	130.03	122.42
48	Ll	103	LYS	C-N-CA	5.72	130.03	122.42
49	Lm	317	GLY	CA-C-N	5.72	131.06	122.99
49	Lm	317	GLY	C-N-CA	5.72	131.06	122.99
24	LN	280	PHE	CA-C-N	5.72	129.68	121.56
24	LN	280	PHE	C-N-CA	5.72	129.68	121.56
47	Lk	473	ALA	CA-C-N	5.72	128.41	120.29
47	Lk	473	ALA	C-N-CA	5.72	128.41	120.29
11	LA	22	ILE	CA-C-N	5.71	131.17	123.46
11	LA	22	ILE	C-N-CA	5.71	131.17	123.46
26	LP	134	GLY	N-CA-C	5.71	119.42	110.91
38	Lb	992	GLU	CA-C-N	5.71	128.40	120.63
38	Lb	992	GLU	C-N-CA	5.71	128.40	120.63
44	Lh	298	PRO	CA-C-N	5.71	130.89	123.00
44	Lh	298	PRO	C-N-CA	5.71	130.89	123.00
48	Ll	64	TYR	CA-C-N	5.71	130.02	122.42
48	Ll	64	TYR	C-N-CA	5.71	130.02	122.42
19	LI	77	ASP	CA-C-N	5.71	127.93	120.28
19	LI	77	ASP	C-N-CA	5.71	127.93	120.28
41	Le	589	GLY	N-CA-C	5.71	118.93	110.42
47	Lk	398	PHE	CA-C-N	5.71	130.41	122.93

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
47	Lk	398	PHE	C-N-CA	5.71	130.41	122.93
29	LS	88	VAL	CA-C-N	5.71	130.62	123.14
29	LS	88	VAL	C-N-CA	5.71	130.62	123.14
33	LW	389	HIS	CA-CB-CG	5.71	119.51	113.80
34	LX	136	CYS	CA-C-N	5.71	131.04	122.99
34	LX	136	CYS	C-N-CA	5.71	131.04	122.99
83	lB	44	G	C4'-C3'-O3'	5.71	117.96	109.40
1	L0	359	TYR	CA-C-N	5.71	130.92	122.99
1	L0	359	TYR	C-N-CA	5.71	130.92	122.99
41	Le	447	TYR	CA-C-N	5.71	127.86	120.44
41	Le	447	TYR	C-N-CA	5.71	127.86	120.44
36	LZ	55	PHE	CA-C-N	5.70	131.04	123.00
36	LZ	55	PHE	C-N-CA	5.70	131.04	123.00
42	Lf	376	GLY	CA-C-N	5.70	131.54	122.59
42	Lf	376	GLY	C-N-CA	5.70	131.54	122.59
25	LO	144	ARG	CA-C-N	5.70	130.52	122.09
25	LO	144	ARG	C-N-CA	5.70	130.52	122.09
29	LS	142	CYS	CA-C-N	5.70	130.91	122.99
29	LS	142	CYS	C-N-CA	5.70	130.91	122.99
37	La	73	VAL	CA-C-N	5.70	131.31	123.28
37	La	73	VAL	C-N-CA	5.70	131.31	123.28
41	Le	466	LYS	CA-C-N	5.70	131.03	123.05
41	Le	466	LYS	C-N-CA	5.70	131.03	123.05
1	L0	289	ILE	N-CA-CB	5.70	117.56	111.46
10	L9	463	GLN	CA-C-N	5.69	129.56	121.42
10	L9	463	GLN	C-N-CA	5.69	129.56	121.42
14	LD	360	ARG	CA-C-N	5.69	127.91	120.28
14	LD	360	ARG	C-N-CA	5.69	127.91	120.28
41	Le	549	GLU	CA-C-N	5.69	128.18	120.44
41	Le	549	GLU	C-N-CA	5.69	128.18	120.44
4	L3	428	VAL	CA-C-N	5.69	127.91	120.28
4	L3	428	VAL	C-N-CA	5.69	127.91	120.28
38	Lb	460	GLU	CA-C-N	5.69	127.91	120.28
38	Lb	460	GLU	C-N-CA	5.69	127.91	120.28
30	LT	55	HIS	CA-C-N	5.69	130.68	122.77
30	LT	55	HIS	C-N-CA	5.69	130.68	122.77
40	Ld	524	ALA	CA-C-N	5.69	127.84	120.44
40	Ld	524	ALA	C-N-CA	5.69	127.84	120.44
49	Lm	405	PRO	CA-C-N	5.69	128.47	120.28
49	Lm	405	PRO	C-N-CA	5.69	128.47	120.28
48	Ll	134	PHE	CA-C-N	5.69	129.56	121.42
48	Ll	134	PHE	C-N-CA	5.69	129.56	121.42

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
49	Lm	282	GLY	N-CA-C	5.69	118.90	110.42
12	LB	69	TRP	CA-C-N	5.69	127.83	120.44
12	LB	69	TRP	C-N-CA	5.69	127.83	120.44
37	La	30	ARG	CA-C-N	5.69	130.51	122.09
37	La	30	ARG	C-N-CA	5.69	130.51	122.09
43	Lg	118	GLN	CA-C-N	5.69	127.90	120.28
43	Lg	118	GLN	C-N-CA	5.69	127.90	120.28
68	UF	47	SER	CA-C-N	5.69	128.37	120.29
68	UF	47	SER	C-N-CA	5.69	128.37	120.29
12	LB	29	ARG	CA-C-N	5.69	127.90	120.28
12	LB	29	ARG	C-N-CA	5.69	127.90	120.28
14	LD	586	LYS	CA-C-N	5.68	127.83	120.44
14	LD	586	LYS	C-N-CA	5.68	127.83	120.44
13	LC	456	ILE	CA-C-N	5.68	129.96	121.72
13	LC	456	ILE	C-N-CA	5.68	129.96	121.72
39	Lc	400	CYS	CA-C-N	5.68	128.35	120.29
39	Lc	400	CYS	C-N-CA	5.68	128.35	120.29
34	LX	129	GLY	CA-C-N	5.68	129.54	121.42
34	LX	129	GLY	C-N-CA	5.68	129.54	121.42
32	LV	320	GLN	CA-C-N	5.68	129.62	121.50
32	LV	320	GLN	C-N-CA	5.68	129.62	121.50
55	Ls	355	PRO	CA-C-N	5.68	129.69	122.37
55	Ls	355	PRO	C-N-CA	5.68	129.69	122.37
38	Lb	292	GLY	N-CA-C	5.67	118.87	110.42
41	Le	512	ALA	CA-C-N	5.67	130.55	122.72
41	Le	512	ALA	C-N-CA	5.67	130.55	122.72
43	Lg	206	ARG	CA-C-N	5.67	128.16	120.44
43	Lg	206	ARG	C-N-CA	5.67	128.16	120.44
5	L4	401	GLU	CA-C-N	5.67	130.99	122.99
5	L4	401	GLU	C-N-CA	5.67	130.99	122.99
16	LF	127	VAL	CA-C-N	5.67	130.88	122.99
16	LF	127	VAL	C-N-CA	5.67	130.88	122.99
12	LB	24	LYS	CA-C-N	5.67	127.82	120.56
12	LB	24	LYS	C-N-CA	5.67	127.82	120.56
39	Lc	493	HIS	CA-C-N	5.67	127.81	120.44
39	Lc	493	HIS	C-N-CA	5.67	127.81	120.44
27	LQ	367	TRP	CA-C-N	5.67	130.91	122.86
27	LQ	367	TRP	C-N-CA	5.67	130.91	122.86
37	La	97	PHE	CA-C-N	5.67	131.16	123.11
37	La	97	PHE	C-N-CA	5.67	131.16	123.11
23	LM	100	THR	CA-C-N	5.67	128.34	120.29
23	LM	100	THR	C-N-CA	5.67	128.34	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
10	L9	473	LEU	CA-C-N	5.67	130.72	122.85
10	L9	473	LEU	C-N-CA	5.67	130.72	122.85
21	LK	142	ARG	CA-C-N	5.67	129.52	121.42
21	LK	142	ARG	C-N-CA	5.67	129.52	121.42
33	LW	417	MET	CA-C-N	5.67	129.84	120.94
33	LW	417	MET	C-N-CA	5.67	129.84	120.94
49	Lm	288	ASP	CA-C-N	5.67	128.34	120.29
49	Lm	288	ASP	C-N-CA	5.67	128.34	120.29
13	LC	570	VAL	CA-C-N	5.67	127.81	120.44
13	LC	570	VAL	C-N-CA	5.67	127.81	120.44
61	Ly	558	VAL	CA-C-N	5.67	130.82	123.00
61	Ly	558	VAL	C-N-CA	5.67	130.82	123.00
8	L7	60	PRO	CA-C-N	5.66	128.33	120.29
8	L7	60	PRO	C-N-CA	5.66	128.33	120.29
38	Lb	364	HIS	CA-C-N	5.66	127.80	120.44
38	Lb	364	HIS	C-N-CA	5.66	127.80	120.44
19	LI	52	ILE	CA-C-N	5.66	130.97	122.99
19	LI	52	ILE	C-N-CA	5.66	130.97	122.99
22	LL	194	THR	CA-C-N	5.66	130.71	123.13
22	LL	194	THR	C-N-CA	5.66	130.71	123.13
24	LN	324	SER	CA-C-N	5.66	129.95	122.42
24	LN	324	SER	C-N-CA	5.66	129.95	122.42
25	LO	323	GLY	CA-C-N	5.66	130.81	122.94
25	LO	323	GLY	C-N-CA	5.66	130.81	122.94
39	Lc	497	GLU	CA-C-N	5.66	127.69	120.56
39	Lc	497	GLU	C-N-CA	5.66	127.69	120.56
44	Lh	357	TYR	CA-C-N	5.66	130.47	122.09
44	Lh	357	TYR	C-N-CA	5.66	130.47	122.09
49	Lm	413	THR	CA-C-N	5.66	129.51	121.42
49	Lm	413	THR	C-N-CA	5.66	129.51	121.42
56	Lt	122	GLU	CB-CG-CD	5.66	122.22	112.60
1	L0	341	GLN	CA-C-N	5.66	130.62	123.10
1	L0	341	GLN	C-N-CA	5.66	130.62	123.10
33	LW	363	PHE	CA-C-N	5.66	130.20	123.19
33	LW	363	PHE	C-N-CA	5.66	130.20	123.19
39	Lc	355	PHE	CA-C-N	5.66	127.79	120.44
39	Lc	355	PHE	C-N-CA	5.66	127.79	120.44
61	Ly	647	GLU	CA-C-N	5.66	127.69	120.56
61	Ly	647	GLU	C-N-CA	5.66	127.69	120.56
1	L0	402	PHE	CA-C-N	5.66	127.79	120.44
1	L0	402	PHE	C-N-CA	5.66	127.79	120.44
11	LA	177	PHE	CA-C-N	5.66	130.85	122.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	LA	177	PHE	C-N-CA	5.66	130.85	122.99
13	LC	120	LYS	CA-C-N	5.66	128.11	120.65
13	LC	120	LYS	C-N-CA	5.66	128.11	120.65
38	Lb	595	GLY	CA-C-N	5.66	127.79	120.44
38	Lb	595	GLY	C-N-CA	5.66	127.79	120.44
38	Lb	686	GLN	CA-C-N	5.66	127.80	120.56
38	Lb	686	GLN	C-N-CA	5.66	127.80	120.56
49	Lm	349	ARG	CA-C-N	5.66	130.55	123.14
49	Lm	349	ARG	C-N-CA	5.66	130.55	123.14
61	Ly	571	THR	CA-C-N	5.66	130.80	123.00
61	Ly	571	THR	C-N-CA	5.66	130.80	123.00
67	UE	164	THR	CA-C-N	5.66	130.85	122.99
67	UE	164	THR	C-N-CA	5.66	130.85	122.99
33	LW	454	SER	CA-C-N	5.65	128.90	120.87
33	LW	454	SER	C-N-CA	5.65	128.90	120.87
51	Lo	339	PRO	CA-C-N	5.65	128.87	120.95
51	Lo	339	PRO	C-N-CA	5.65	128.87	120.95
55	Ls	358	ALA	CA-C-N	5.65	131.08	122.37
55	Ls	358	ALA	C-N-CA	5.65	131.08	122.37
25	LO	209	PRO	CA-C-N	5.65	129.00	120.75
25	LO	209	PRO	C-N-CA	5.65	129.00	120.75
32	LV	797	HIS	CA-CB-CG	5.65	119.45	113.80
32	LV	1011	MET	CA-C-N	5.65	127.86	120.28
32	LV	1011	MET	C-N-CA	5.65	127.86	120.28
43	Lg	228	GLN	CA-C-N	5.65	129.94	122.42
43	Lg	228	GLN	C-N-CA	5.65	129.94	122.42
45	Li	588	TYR	CA-C-N	5.65	129.50	121.42
45	Li	588	TYR	C-N-CA	5.65	129.50	121.42
48	Ll	13	GLU	CA-C-N	5.65	131.01	122.98
48	Ll	13	GLU	C-N-CA	5.65	131.01	122.98
37	La	67	LYS	CA-C-N	5.65	131.00	122.98
37	La	67	LYS	C-N-CA	5.65	131.00	122.98
38	Lb	282	TYR	CA-C-N	5.65	131.13	123.11
38	Lb	282	TYR	C-N-CA	5.65	131.13	123.11
12	LB	25	ILE	CA-C-N	5.65	128.12	120.38
12	LB	25	ILE	C-N-CA	5.65	128.12	120.38
10	L9	16	LYS	CA-C-N	5.65	130.45	122.09
10	L9	16	LYS	C-N-CA	5.65	130.45	122.09
36	LZ	47	PRO	CA-C-N	5.65	130.79	123.00
36	LZ	47	PRO	C-N-CA	5.65	130.79	123.00
49	Lm	252	PHE	CA-C-N	5.65	130.19	122.34
49	Lm	252	PHE	C-N-CA	5.65	130.19	122.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	LO	10	ASN	CA-C-N	5.65	130.51	122.72
25	LO	10	ASN	C-N-CA	5.65	130.51	122.72
51	Lo	314	PRO	CA-C-N	5.65	129.92	122.30
51	Lo	314	PRO	C-N-CA	5.65	129.92	122.30
53	Lq	130	LYS	CA-C-N	5.65	128.85	120.95
53	Lq	130	LYS	C-N-CA	5.65	128.85	120.95
49	Lm	268	ASP	CA-C-N	5.64	129.93	122.42
49	Lm	268	ASP	C-N-CA	5.64	129.93	122.42
5	L4	516	ARG	CA-C-N	5.64	130.94	122.99
5	L4	516	ARG	C-N-CA	5.64	130.94	122.99
35	LY	275	GLU	CA-C-N	5.64	130.96	123.00
35	LY	275	GLU	C-N-CA	5.64	130.96	123.00
51	Lo	298	GLU	CA-C-N	5.64	127.78	120.44
51	Lo	298	GLU	C-N-CA	5.64	127.78	120.44
64	UB	316	ARG	CD-NE-CZ	5.64	132.30	124.40
38	Lb	667	ALA	CA-C-N	5.64	127.77	120.44
38	Lb	667	ALA	C-N-CA	5.64	127.77	120.44
49	Lm	275	GLY	N-CA-C	5.64	118.98	110.97
59	Lw	146	PHE	CA-C-N	5.64	127.84	120.28
59	Lw	146	PHE	C-N-CA	5.64	127.84	120.28
13	LC	554	ARG	CA-C-N	5.64	130.94	122.99
13	LC	554	ARG	C-N-CA	5.64	130.94	122.99
22	LL	385	HIS	CA-C-N	5.64	130.39	121.99
22	LL	385	HIS	C-N-CA	5.64	130.39	121.99
29	LS	141	GLU	CA-C-N	5.64	130.50	122.72
29	LS	141	GLU	C-N-CA	5.64	130.50	122.72
44	Lh	329	SER	CA-C-N	5.64	130.83	122.99
44	Lh	329	SER	C-N-CA	5.64	130.83	122.99
57	Lu	262	GLU	CA-C-N	5.64	127.77	120.44
57	Lu	262	GLU	C-N-CA	5.64	127.77	120.44
64	UB	387	LEU	CA-C-N	5.64	128.88	120.31
64	UB	387	LEU	C-N-CA	5.64	128.88	120.31
4	L3	521	ARG	CA-C-N	5.64	127.77	120.44
4	L3	521	ARG	C-N-CA	5.64	127.77	120.44
14	LD	595	LEU	CA-C-N	5.64	129.91	122.30
14	LD	595	LEU	C-N-CA	5.64	129.91	122.30
33	LW	390	GLY	CA-C-N	5.64	130.52	123.14
33	LW	390	GLY	C-N-CA	5.64	130.52	123.14
10	L9	462	ARG	CA-C-N	5.63	128.84	120.95
10	L9	462	ARG	C-N-CA	5.63	128.84	120.95
34	LX	157	GLU	CA-C-N	5.63	128.29	120.29
34	LX	157	GLU	C-N-CA	5.63	128.29	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	Lg	217	TRP	CA-C-N	5.63	130.50	122.72
43	Lg	217	TRP	C-N-CA	5.63	130.50	122.72
49	Lm	286	GLN	CA-C-N	5.63	130.82	122.99
49	Lm	286	GLN	C-N-CA	5.63	130.82	122.99
67	UE	184	LEU	CA-C-N	5.63	127.77	120.44
67	UE	184	LEU	C-N-CA	5.63	127.77	120.44
70	UH	272	LYS	CA-C-N	5.63	127.83	120.28
70	UH	272	LYS	C-N-CA	5.63	127.83	120.28
32	LV	663	PHE	CA-CB-CG	5.63	119.43	113.80
49	Lm	289	LYS	CA-C-N	5.63	127.76	120.44
49	Lm	289	LYS	C-N-CA	5.63	127.76	120.44
96	lO	161	A	C4'-C3'-O3'	5.63	117.85	109.40
35	LY	527	LEU	CA-C-N	5.63	127.76	120.44
35	LY	527	LEU	C-N-CA	5.63	127.76	120.44
20	LJ	413	MET	CA-C-N	5.63	127.65	120.56
20	LJ	413	MET	C-N-CA	5.63	127.65	120.56
39	Lc	533	GLU	CA-C-N	5.63	131.47	122.86
39	Lc	533	GLU	C-N-CA	5.63	131.47	122.86
83	lB	44	G	C2'-C3'-O3'	5.63	117.94	109.50
32	LV	958	ARG	CD-NE-CZ	5.63	132.28	124.40
52	Lp	620	PHE	CA-C-N	5.63	130.93	122.99
52	Lp	620	PHE	C-N-CA	5.63	130.93	122.99
1	L0	546	MET	CA-C-N	5.62	128.38	120.28
1	L0	546	MET	C-N-CA	5.62	128.38	120.28
38	Lb	712	ALA	CA-C-N	5.62	127.75	120.44
38	Lb	712	ALA	C-N-CA	5.62	127.75	120.44
4	L3	644	GLN	CA-C-N	5.62	129.54	121.50
4	L3	644	GLN	C-N-CA	5.62	129.54	121.50
31	LU	277	VAL	N-CA-CB	5.62	117.13	110.55
39	Lc	605	LEU	CA-C-N	5.62	130.16	123.19
39	Lc	605	LEU	C-N-CA	5.62	130.16	123.19
14	LD	368	PHE	N-CA-CB	5.62	118.16	110.01
42	Lf	294	ILE	CA-C-N	5.62	130.76	123.00
42	Lf	294	ILE	C-N-CA	5.62	130.76	123.00
67	UE	118	HIS	CA-C-N	5.62	130.50	123.14
67	UE	118	HIS	C-N-CA	5.62	130.50	123.14
5	L4	533	PRO	CA-C-N	5.62	128.81	120.95
5	L4	533	PRO	C-N-CA	5.62	128.81	120.95
14	LD	388	PHE	CA-C-N	5.62	129.54	121.50
14	LD	388	PHE	C-N-CA	5.62	129.54	121.50
25	LO	201	ASN	CA-C-N	5.62	130.92	123.05
25	LO	201	ASN	C-N-CA	5.62	130.92	123.05

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	LR	50	ARG	CA-C-N	5.62	128.20	120.67
28	LR	50	ARG	C-N-CA	5.62	128.20	120.67
37	La	166	LEU	CA-C-N	5.62	127.74	120.44
37	La	166	LEU	C-N-CA	5.62	127.74	120.44
39	Lc	611	TRP	CA-C-N	5.62	128.26	120.29
39	Lc	611	TRP	C-N-CA	5.62	128.26	120.29
44	Lh	345	ALA	CA-C-N	5.62	129.53	120.82
44	Lh	345	ALA	C-N-CA	5.62	129.53	120.82
25	LO	95	SER	CA-C-N	5.61	127.74	120.44
25	LO	95	SER	C-N-CA	5.61	127.74	120.44
37	La	40	VAL	CA-C-N	5.61	130.24	122.77
37	La	40	VAL	C-N-CA	5.61	130.24	122.77
39	Lc	619	GLU	CA-C-N	5.61	128.07	120.44
39	Lc	619	GLU	C-N-CA	5.61	128.07	120.44
61	Ly	285	ARG	CA-C-N	5.61	129.98	122.01
61	Ly	285	ARG	C-N-CA	5.61	129.98	122.01
69	UG	366	LYS	CA-CB-CG	5.61	125.33	114.10
1	L0	343	ARG	CA-C-N	5.61	130.79	122.99
1	L0	343	ARG	C-N-CA	5.61	130.79	122.99
33	LW	490	VAL	CA-C-N	5.61	130.90	122.99
33	LW	490	VAL	C-N-CA	5.61	130.90	122.99
39	Lc	453	ASP	CA-C-N	5.61	128.26	120.29
39	Lc	453	ASP	C-N-CA	5.61	128.26	120.29
1	L0	387	LEU	CA-C-N	5.61	130.91	123.05
1	L0	387	LEU	C-N-CA	5.61	130.91	123.05
11	LA	169	ARG	N-CA-CB	5.61	118.66	110.30
13	LC	443	LEU	CA-C-N	5.61	129.61	122.37
13	LC	443	LEU	C-N-CA	5.61	129.61	122.37
55	Ls	386	TRP	CA-C-N	5.61	128.36	120.28
55	Ls	386	TRP	C-N-CA	5.61	128.36	120.28
1	L0	367	ALA	CA-C-N	5.61	127.80	120.28
1	L0	367	ALA	C-N-CA	5.61	127.80	120.28
1	L0	567	LEU	CA-C-N	5.61	127.79	120.28
1	L0	567	LEU	C-N-CA	5.61	127.79	120.28
32	LV	681	ARG	CD-NE-CZ	5.61	132.25	124.40
38	Lb	286	HIS	CA-C-N	5.61	130.64	122.85
38	Lb	286	HIS	C-N-CA	5.61	130.64	122.85
49	Lm	295	SER	CA-C-N	5.61	130.73	122.94
49	Lm	295	SER	C-N-CA	5.61	130.73	122.94
69	UG	335	ARG	CA-C-N	5.61	130.41	123.12
69	UG	335	ARG	C-N-CA	5.61	130.41	123.12
11	LA	173	TYR	CA-C-N	5.61	128.06	120.38

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	LA	173	TYR	C-N-CA	5.61	128.06	120.38
43	Lg	96	GLU	CA-C-N	5.61	127.73	120.44
43	Lg	96	GLU	C-N-CA	5.61	127.73	120.44
61	Ly	516	ASP	CA-C-N	5.61	131.07	123.11
61	Ly	516	ASP	C-N-CA	5.61	131.07	123.11
38	Lb	643	ASP	CA-C-N	5.60	127.62	120.56
38	Lb	643	ASP	C-N-CA	5.60	127.62	120.56
74	l2	25	U	C4'-C3'-O3'	5.60	117.81	109.40
14	LD	340	GLY	CA-C-N	5.60	130.89	123.05
14	LD	340	GLY	C-N-CA	5.60	130.89	123.05
35	LY	390	THR	CA-C-N	5.60	127.72	120.44
35	LY	390	THR	C-N-CA	5.60	127.72	120.44
36	LZ	106	ARG	CA-C-N	5.60	130.89	123.05
36	LZ	106	ARG	C-N-CA	5.60	130.89	123.05
45	Li	623	THR	CA-C-N	5.60	127.72	120.44
45	Li	623	THR	C-N-CA	5.60	127.72	120.44
23	LM	7	PHE	CA-C-N	5.60	131.05	122.93
23	LM	7	PHE	C-N-CA	5.60	131.05	122.93
38	Lb	474	LEU	CA-C-N	5.60	127.61	120.56
38	Lb	474	LEU	C-N-CA	5.60	127.61	120.56
40	Ld	373	PRO	CA-C-N	5.60	128.24	120.29
40	Ld	373	PRO	C-N-CA	5.60	128.24	120.29
13	LC	112	ASP	CA-C-N	5.60	129.86	122.30
13	LC	112	ASP	C-N-CA	5.60	129.86	122.30
32	LV	785	ARG	CD-NE-CZ	5.60	132.24	124.40
52	Lp	545	THR	CA-C-N	5.60	130.99	122.65
52	Lp	545	THR	C-N-CA	5.60	130.99	122.65
12	LB	108	TYR	CA-C-N	5.60	129.86	122.42
12	LB	108	TYR	C-N-CA	5.60	129.86	122.42
45	Li	278	ASP	CA-C-N	5.60	129.49	120.82
45	Li	278	ASP	C-N-CA	5.60	129.49	120.82
9	L8	116	ARG	CA-C-N	5.59	127.78	120.28
9	L8	116	ARG	C-N-CA	5.59	127.78	120.28
13	LC	168	ASP	CA-C-N	5.59	130.89	123.00
13	LC	168	ASP	C-N-CA	5.59	130.89	123.00
24	LN	276	LYS	CA-C-N	5.59	130.44	122.72
24	LN	276	LYS	C-N-CA	5.59	130.44	122.72
27	LQ	397	LEU	CA-C-N	5.59	128.65	120.71
27	LQ	397	LEU	C-N-CA	5.59	128.65	120.71
33	LW	435	ILE	CA-C-N	5.59	130.66	122.77
33	LW	435	ILE	C-N-CA	5.59	130.66	122.77
31	LU	261	ILE	CA-C-N	5.59	130.54	123.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
31	LU	261	ILE	C-N-CA	5.59	130.54	123.10
38	Lb	636	PHE	CA-C-N	5.59	128.23	120.29
38	Lb	636	PHE	C-N-CA	5.59	128.23	120.29
26	LP	86	ALA	CA-C-N	5.59	127.71	120.44
26	LP	86	ALA	C-N-CA	5.59	127.71	120.44
38	Lb	902	PRO	CA-C-N	5.59	130.88	123.00
38	Lb	902	PRO	C-N-CA	5.59	130.88	123.00
50	Ln	148	ALA	CA-C-N	5.59	130.44	122.72
50	Ln	148	ALA	C-N-CA	5.59	130.44	122.72
51	Lo	108	PRO	CA-C-N	5.59	127.77	120.28
51	Lo	108	PRO	C-N-CA	5.59	127.77	120.28
38	Lb	708	GLY	CA-C-N	5.59	127.77	120.28
38	Lb	708	GLY	C-N-CA	5.59	127.77	120.28
32	LV	1061	VAL	CA-C-N	5.59	127.70	120.44
32	LV	1061	VAL	C-N-CA	5.59	127.70	120.44
35	LY	463	LEU	CA-C-N	5.59	130.87	122.99
35	LY	463	LEU	C-N-CA	5.59	130.87	122.99
38	Lb	414	ALA	CA-C-N	5.59	127.70	120.44
38	Lb	414	ALA	C-N-CA	5.59	127.70	120.44
44	Lh	405	ILE	CA-C-N	5.59	127.77	120.28
44	Lh	405	ILE	C-N-CA	5.59	127.77	120.28
56	Lt	217	GLU	CA-C-N	5.59	128.80	120.87
56	Lt	217	GLU	C-N-CA	5.59	128.80	120.87
64	UB	375	SER	CA-C-N	5.58	130.06	122.19
64	UB	375	SER	C-N-CA	5.58	130.06	122.19
24	LN	349	SER	CA-C-N	5.58	131.03	122.93
24	LN	349	SER	C-N-CA	5.58	131.03	122.93
38	Lb	506	ALA	CA-C-N	5.58	127.76	120.28
38	Lb	506	ALA	C-N-CA	5.58	127.76	120.28
27	LQ	363	GLN	CA-C-N	5.58	130.12	120.58
27	LQ	363	GLN	C-N-CA	5.58	130.12	120.58
49	Lm	294	VAL	CA-C-N	5.58	130.86	122.99
49	Lm	294	VAL	C-N-CA	5.58	130.86	122.99
32	LV	1058	SER	CA-C-N	5.58	128.21	120.29
32	LV	1058	SER	C-N-CA	5.58	128.21	120.29
38	Lb	312	ARG	CA-C-N	5.58	129.84	122.42
38	Lb	312	ARG	C-N-CA	5.58	129.84	122.42
45	Li	593	PRO	CA-C-N	5.58	130.96	122.65
45	Li	593	PRO	C-N-CA	5.58	130.96	122.65
13	LC	252	THR	CA-C-N	5.58	129.57	122.37
13	LC	252	THR	C-N-CA	5.58	129.57	122.37
19	LI	54	THR	CA-C-N	5.58	128.79	120.31

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	LI	54	THR	C-N-CA	5.58	128.79	120.31
38	Lb	598	GLU	CA-C-N	5.58	127.69	120.44
38	Lb	598	GLU	C-N-CA	5.58	127.69	120.44
51	Lo	344	LEU	CA-C-N	5.58	128.79	120.87
51	Lo	344	LEU	C-N-CA	5.58	128.79	120.87
55	Ls	376	GLY	CA-C-N	5.58	128.21	120.29
55	Ls	376	GLY	C-N-CA	5.58	128.21	120.29
55	Ls	529	PRO	CA-C-N	5.58	131.02	122.93
55	Ls	529	PRO	C-N-CA	5.58	131.02	122.93
14	LD	350	ASP	CA-CB-CG	5.58	118.18	112.60
32	LV	798	ARG	CD-NE-CZ	5.58	132.21	124.40
45	Li	578	LEU	CA-C-N	5.58	127.69	120.44
45	Li	578	LEU	C-N-CA	5.58	127.69	120.44
62	Lz	203	ARG	CA-C-N	5.58	129.83	122.30
62	Lz	203	ARG	C-N-CA	5.58	129.83	122.30
46	Lj	73	GLN	CA-C-N	5.57	127.68	120.44
46	Lj	73	GLN	C-N-CA	5.57	127.68	120.44
20	LJ	140	VAL	N-CA-CB	5.57	116.47	110.62
32	LV	600	ALA	CA-C-N	5.57	128.20	120.29
32	LV	600	ALA	C-N-CA	5.57	128.20	120.29
47	Lk	536	PHE	CA-C-N	5.57	127.75	120.28
47	Lk	536	PHE	C-N-CA	5.57	127.75	120.28
4	L3	734	ARG	CA-C-N	5.57	127.68	120.44
4	L3	734	ARG	C-N-CA	5.57	127.68	120.44
5	L4	471	TYR	CA-C-N	5.57	129.82	122.30
5	L4	471	TYR	C-N-CA	5.57	129.82	122.30
89	lH	6	G	C4'-C3'-O3'	5.57	117.75	109.40
33	LW	240	LYS	CA-C-N	5.57	130.73	122.99
33	LW	240	LYS	C-N-CA	5.57	130.73	122.99
37	La	28	VAL	CA-C-N	5.57	130.84	123.05
37	La	28	VAL	C-N-CA	5.57	130.84	123.05
56	Lt	154	TYR	CA-C-N	5.57	130.84	123.05
56	Lt	154	TYR	C-N-CA	5.57	130.84	123.05
12	LB	73	SER	CA-C-N	5.57	127.68	120.44
12	LB	73	SER	C-N-CA	5.57	127.68	120.44
39	Lc	595	HIS	ND1-CG-CD2	-5.57	100.53	106.10
43	Lg	218	LYS	CA-C-N	5.56	128.61	120.71
43	Lg	218	LYS	C-N-CA	5.56	128.61	120.71
39	Lc	594	ARG	CA-C-N	5.56	128.01	120.44
39	Lc	594	ARG	C-N-CA	5.56	128.01	120.44
67	UE	199	TYR	CA-C-N	5.56	127.67	120.44
67	UE	199	TYR	C-N-CA	5.56	127.67	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	424	PHE	CA-C-N	5.56	128.19	120.29
38	Lb	424	PHE	C-N-CA	5.56	128.19	120.29
40	Ld	362	THR	CA-C-N	5.56	127.67	120.44
40	Ld	362	THR	C-N-CA	5.56	127.67	120.44
42	Lf	185	ASN	CA-C-N	5.56	131.47	122.68
42	Lf	185	ASN	C-N-CA	5.56	131.47	122.68
43	Lg	43	ALA	CA-C-N	5.56	128.29	120.28
43	Lg	43	ALA	C-N-CA	5.56	128.29	120.28
52	Lp	498	CYS	CA-C-N	5.56	127.73	120.28
52	Lp	498	CYS	C-N-CA	5.56	127.73	120.28
3	L2	126	ASP	CA-C-N	5.56	126.15	119.98
3	L2	126	ASP	C-N-CA	5.56	126.15	119.98
4	L3	434	GLN	CA-C-N	5.56	128.28	120.28
4	L3	434	GLN	C-N-CA	5.56	128.28	120.28
16	LF	134	PRO	CA-C-N	5.56	130.72	122.99
16	LF	134	PRO	C-N-CA	5.56	130.72	122.99
52	Lp	578	PRO	CA-C-N	5.56	127.66	120.44
52	Lp	578	PRO	C-N-CA	5.56	127.66	120.44
44	Lh	718	HIS	CA-C-N	5.56	129.37	121.42
44	Lh	718	HIS	C-N-CA	5.56	129.37	121.42
1	L0	608	PRO	CA-C-N	5.55	128.38	120.49
1	L0	608	PRO	C-N-CA	5.55	128.38	120.49
21	LK	247	GLU	CA-C-N	5.55	127.72	120.28
21	LK	247	GLU	C-N-CA	5.55	127.72	120.28
33	LW	229	ILE	CA-C-N	5.55	129.32	121.66
33	LW	229	ILE	C-N-CA	5.55	129.32	121.66
38	Lb	728	SER	CA-C-N	5.55	127.66	120.44
38	Lb	728	SER	C-N-CA	5.55	127.66	120.44
61	Ly	655	GLN	CA-C-N	5.55	128.73	120.95
61	Ly	655	GLN	C-N-CA	5.55	128.73	120.95
22	LL	317	LEU	CA-C-N	5.55	130.49	123.10
22	LL	317	LEU	C-N-CA	5.55	130.49	123.10
40	Ld	519	ALA	CA-C-N	5.55	128.18	120.29
40	Ld	519	ALA	C-N-CA	5.55	128.18	120.29
40	Ld	530	ALA	CA-C-N	5.55	127.72	120.28
40	Ld	530	ALA	C-N-CA	5.55	127.72	120.28
91	lJ	184	C	C4'-C3'-O3'	5.55	117.73	109.40
16	LF	171	LYS	CA-C-N	5.55	130.57	122.85
16	LF	171	LYS	C-N-CA	5.55	130.57	122.85
19	LI	12	ALA	CA-C-N	5.55	127.72	120.28
19	LI	12	ALA	C-N-CA	5.55	127.72	120.28
23	LM	50	GLU	CB-CG-CD	5.55	122.04	112.60

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	LY	248	TRP	CA-C-N	5.55	127.66	120.44
35	LY	248	TRP	C-N-CA	5.55	127.66	120.44
55	Ls	324	VAL	CA-C-N	5.55	130.15	122.77
55	Ls	324	VAL	C-N-CA	5.55	130.15	122.77
8	L7	29	CYS	CA-C-N	5.55	128.62	120.91
8	L7	29	CYS	C-N-CA	5.55	128.62	120.91
24	LN	267	ASN	CA-CB-CG	5.55	118.15	112.60
29	LS	52	SER	CA-C-N	5.55	127.65	120.44
29	LS	52	SER	C-N-CA	5.55	127.65	120.44
45	Li	582	ARG	CA-C-N	5.55	130.71	122.99
45	Li	582	ARG	C-N-CA	5.55	130.71	122.99
69	UG	313	ARG	CA-C-N	5.55	128.01	120.63
69	UG	313	ARG	C-N-CA	5.55	128.01	120.63
9	L8	194	GLU	CA-C-N	5.55	129.79	122.30
9	L8	194	GLU	C-N-CA	5.55	129.79	122.30
36	LZ	82	PRO	CA-C-N	5.55	129.91	121.03
36	LZ	82	PRO	C-N-CA	5.55	129.91	121.03
47	Lk	540	ARG	CA-C-N	5.55	127.65	120.44
47	Lk	540	ARG	C-N-CA	5.55	127.65	120.44
5	L4	320	LEU	CA-C-N	5.55	127.71	120.28
5	L4	320	LEU	C-N-CA	5.55	127.71	120.28
25	LO	127	ARG	CA-C-N	5.55	128.48	122.16
25	LO	127	ARG	C-N-CA	5.55	128.48	122.16
30	LT	79	TYR	CA-C-N	5.55	127.55	120.56
30	LT	79	TYR	C-N-CA	5.55	127.55	120.56
38	Lb	448	ARG	CA-C-N	5.55	130.99	123.11
38	Lb	448	ARG	C-N-CA	5.55	130.99	123.11
42	Lf	314	ARG	CA-C-N	5.55	130.23	122.41
42	Lf	314	ARG	C-N-CA	5.55	130.23	122.41
69	UG	311	ALA	CA-C-N	5.55	127.65	120.44
69	UG	311	ALA	C-N-CA	5.55	127.65	120.44
39	Lc	517	TRP	CA-C-N	5.54	127.65	120.44
39	Lc	517	TRP	C-N-CA	5.54	127.65	120.44
51	Lo	159	PRO	CA-C-N	5.54	130.81	122.99
51	Lo	159	PRO	C-N-CA	5.54	130.81	122.99
58	Lv	31	ILE	CA-C-N	5.54	127.65	120.44
58	Lv	31	ILE	C-N-CA	5.54	127.65	120.44
21	LK	78	PRO	CA-C-N	5.54	130.26	123.17
21	LK	78	PRO	C-N-CA	5.54	130.26	123.17
35	LY	307	PHE	CA-C-N	5.54	130.01	122.19
35	LY	307	PHE	C-N-CA	5.54	130.01	122.19
35	LY	377	LEU	CA-C-N	5.54	127.71	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	LY	377	LEU	C-N-CA	5.54	127.71	120.28
44	Lh	404	ASP	CA-C-N	5.54	127.55	120.56
44	Lh	404	ASP	C-N-CA	5.54	127.55	120.56
20	LJ	387	GLU	CA-C-N	5.54	127.64	120.44
20	LJ	387	GLU	C-N-CA	5.54	127.64	120.44
45	Li	585	HIS	CA-C-N	5.54	130.80	122.99
45	Li	585	HIS	C-N-CA	5.54	130.80	122.99
68	UF	10	LYS	CA-C-N	5.54	127.64	120.44
68	UF	10	LYS	C-N-CA	5.54	127.64	120.44
22	LL	238	THR	CA-C-N	5.54	130.39	122.08
22	LL	238	THR	C-N-CA	5.54	130.39	122.08
29	LS	10	LYS	CA-C-N	5.54	127.54	120.56
29	LS	10	LYS	C-N-CA	5.54	127.54	120.56
13	LC	261	LYS	CA-C-N	5.54	130.22	122.41
13	LC	261	LYS	C-N-CA	5.54	130.22	122.41
22	LL	906	LEU	CA-C-N	5.54	127.70	120.28
22	LL	906	LEU	C-N-CA	5.54	127.70	120.28
25	LO	320	SER	CA-C-N	5.54	128.25	120.28
25	LO	320	SER	C-N-CA	5.54	128.25	120.28
37	La	57	LEU	CA-C-N	5.54	128.16	120.29
37	La	57	LEU	C-N-CA	5.54	128.16	120.29
53	Lq	678	PHE	N-CA-CB	5.54	118.04	110.01
64	UB	243	ALA	CA-C-N	5.54	130.98	123.11
64	UB	243	ALA	C-N-CA	5.54	130.98	123.11
20	LJ	232	TYR	CA-C-N	5.54	127.64	120.44
20	LJ	232	TYR	C-N-CA	5.54	127.64	120.44
56	Lt	227	PHE	CA-C-N	5.54	127.70	120.28
56	Lt	227	PHE	C-N-CA	5.54	127.70	120.28
10	L9	456	ARG	CA-C-N	5.54	130.81	123.00
10	L9	456	ARG	C-N-CA	5.54	130.81	123.00
20	LJ	64	ALA	CA-C-N	5.54	127.64	120.44
20	LJ	64	ALA	C-N-CA	5.54	127.64	120.44
27	LQ	403	ARG	CA-C-N	5.54	128.70	120.95
27	LQ	403	ARG	C-N-CA	5.54	128.70	120.95
23	LM	36	PHE	CA-C-N	5.53	127.64	120.44
23	LM	36	PHE	C-N-CA	5.53	127.64	120.44
69	UG	255	THR	CA-C-N	5.53	130.64	123.00
69	UG	255	THR	C-N-CA	5.53	130.64	123.00
5	L4	284	THR	CA-C-N	5.53	127.53	120.56
5	L4	284	THR	C-N-CA	5.53	127.53	120.56
25	LO	342	VAL	CA-C-N	5.53	130.80	123.00
25	LO	342	VAL	C-N-CA	5.53	130.80	123.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	Ls	366	LYS	CA-C-N	5.53	130.89	122.65
55	Ls	366	LYS	C-N-CA	5.53	130.89	122.65
67	UE	151	GLN	CA-C-N	5.53	130.95	122.93
67	UE	151	GLN	C-N-CA	5.53	130.95	122.93
29	LS	17	ARG	N-CA-CB	5.53	118.15	109.69
41	Le	451	ALA	CA-C-N	5.53	128.24	120.28
41	Le	451	ALA	C-N-CA	5.53	128.24	120.28
43	Lg	161	ALA	CA-C-N	5.53	130.78	122.99
43	Lg	161	ALA	C-N-CA	5.53	130.78	122.99
53	Lq	178	VAL	CA-C-N	5.53	127.63	120.44
53	Lq	178	VAL	C-N-CA	5.53	127.63	120.44
61	Ly	511	LYS	CA-C-N	5.53	129.29	121.66
61	Ly	511	LYS	C-N-CA	5.53	129.29	121.66
61	Ly	550	LYS	CA-CB-CG	5.53	125.16	114.10
13	LC	555	SER	CA-C-N	5.53	130.67	122.99
13	LC	555	SER	C-N-CA	5.53	130.67	122.99
38	Lb	393	TYR	N-CA-CB	5.53	118.02	110.01
64	UB	327	TYR	CA-C-N	5.53	130.27	122.09
64	UB	327	TYR	C-N-CA	5.53	130.27	122.09
68	UF	48	LYS	CA-C-N	5.53	127.68	120.28
68	UF	48	LYS	C-N-CA	5.53	127.68	120.28
27	LQ	400	GLY	CA-C-N	5.52	130.26	122.09
27	LQ	400	GLY	C-N-CA	5.52	130.26	122.09
37	La	28	VAL	N-CA-CB	5.52	116.74	110.72
4	L3	635	GLU	CA-C-N	5.52	131.31	123.14
4	L3	635	GLU	C-N-CA	5.52	131.31	123.14
8	L7	28	ALA	CA-C-N	5.52	130.34	122.72
8	L7	28	ALA	C-N-CA	5.52	130.34	122.72
40	Ld	415	GLU	CA-C-N	5.52	127.52	120.56
40	Ld	415	GLU	C-N-CA	5.52	127.52	120.56
56	Lt	264	LYS	N-CA-CB	5.52	118.02	110.01
103	lY	2	U	C3'-C2'-C1'	5.52	106.82	101.30
40	Ld	500	HIS	CA-C-N	5.52	127.62	120.44
40	Ld	500	HIS	C-N-CA	5.52	127.62	120.44
51	Lo	346	VAL	CA-C-N	5.52	128.71	120.87
51	Lo	346	VAL	C-N-CA	5.52	128.71	120.87
4	L3	586	THR	CA-C-N	5.52	130.78	123.05
4	L3	586	THR	C-N-CA	5.52	130.78	123.05
44	Lh	401	LEU	CA-C-N	5.52	130.91	123.46
44	Lh	401	LEU	C-N-CA	5.52	130.91	123.46
57	Lu	267	MET	CA-C-N	5.52	127.68	120.28
57	Lu	267	MET	C-N-CA	5.52	127.68	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	UG	374	GLN	CA-C-N	5.52	127.62	120.44
69	UG	374	GLN	C-N-CA	5.52	127.62	120.44
26	LP	83	PRO	CA-C-N	5.52	127.51	120.56
26	LP	83	PRO	C-N-CA	5.52	127.51	120.56
38	Lb	351	TRP	CA-C-N	5.52	127.67	120.28
38	Lb	351	TRP	C-N-CA	5.52	127.67	120.28
94	lM	77	A	C4'-C3'-O3'	5.52	117.68	109.40
13	LC	571	TYR	CA-C-N	5.52	127.51	120.56
13	LC	571	TYR	C-N-CA	5.52	127.51	120.56
8	L7	86	GLU	CA-C-N	5.51	130.94	123.11
8	L7	86	GLU	C-N-CA	5.51	130.94	123.11
38	Lb	470	PRO	CA-C-N	5.51	127.61	120.44
38	Lb	470	PRO	C-N-CA	5.51	127.61	120.44
52	Lp	452	GLU	CA-C-N	5.51	127.61	120.44
52	Lp	452	GLU	C-N-CA	5.51	127.61	120.44
44	Lh	712	ARG	CA-C-N	5.51	127.61	120.44
44	Lh	712	ARG	C-N-CA	5.51	127.61	120.44
49	Lm	282	GLY	CA-C-N	5.51	130.93	122.93
49	Lm	282	GLY	C-N-CA	5.51	130.93	122.93
3	L2	129	SER	CA-C-N	5.51	127.61	120.44
3	L2	129	SER	C-N-CA	5.51	127.61	120.44
20	LJ	277	PHE	CA-C-N	5.51	127.66	120.28
20	LJ	277	PHE	C-N-CA	5.51	127.66	120.28
2	L1	447	PRO	CA-C-N	5.51	127.60	120.44
2	L1	447	PRO	C-N-CA	5.51	127.60	120.44
25	LO	7	THR	CA-C-N	5.51	130.10	122.77
25	LO	7	THR	C-N-CA	5.51	130.10	122.77
35	LY	511	PHE	CA-CB-CG	5.51	119.31	113.80
41	Le	425	THR	CA-C-N	5.51	127.60	120.44
41	Le	425	THR	C-N-CA	5.51	127.60	120.44
41	Le	552	LYS	N-CA-CB	5.51	118.00	110.01
52	Lp	706	ARG	N-CA-CB	5.51	118.00	110.01
61	Ly	600	ILE	CA-C-N	5.51	129.26	121.66
61	Ly	600	ILE	C-N-CA	5.51	129.26	121.66
20	LJ	174	PHE	CA-C-N	5.51	127.50	120.56
20	LJ	174	PHE	C-N-CA	5.51	127.50	120.56
38	Lb	490	GLY	CA-C-N	5.51	127.93	120.44
38	Lb	490	GLY	C-N-CA	5.51	127.93	120.44
39	Lc	534	HIS	ND1-CG-CD2	-5.51	100.59	106.10
45	Li	627	LYS	CA-C-N	5.51	127.60	120.44
45	Li	627	LYS	C-N-CA	5.51	127.60	120.44
33	LW	223	PHE	CA-C-N	5.51	129.95	122.19

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
33	LW	223	PHE	C-N-CA	5.51	129.95	122.19
38	Lb	665	CYS	CA-C-N	5.51	127.50	120.56
38	Lb	665	CYS	C-N-CA	5.51	127.50	120.56
39	Lc	516	TYR	CA-C-N	5.51	127.60	120.44
39	Lc	516	TYR	C-N-CA	5.51	127.60	120.44
25	LO	236	THR	CA-C-N	5.50	129.25	122.37
25	LO	236	THR	C-N-CA	5.50	129.25	122.37
33	LW	482	PRO	CA-C-N	5.50	129.26	121.61
33	LW	482	PRO	C-N-CA	5.50	129.26	121.61
37	La	102	VAL	CA-C-N	5.50	131.15	122.34
37	La	102	VAL	C-N-CA	5.50	131.15	122.34
38	Lb	453	VAL	CA-C-N	5.50	127.92	120.44
38	Lb	453	VAL	C-N-CA	5.50	127.92	120.44
39	Lc	336	SER	CA-C-N	5.50	127.59	120.44
39	Lc	336	SER	C-N-CA	5.50	127.59	120.44
61	Ly	545	TRP	CA-C-N	5.50	130.20	121.72
61	Ly	545	TRP	C-N-CA	5.50	130.20	121.72
58	Lv	105	PRO	CA-C-N	5.50	127.65	120.28
58	Lv	105	PRO	C-N-CA	5.50	127.65	120.28
61	Ly	536	THR	CA-C-N	5.50	130.64	122.99
61	Ly	536	THR	C-N-CA	5.50	130.64	122.99
69	UG	261	LYS	CA-C-N	5.50	130.91	122.93
69	UG	261	LYS	C-N-CA	5.50	130.91	122.93
1	L0	312	GLU	CA-C-N	5.50	129.46	122.37
1	L0	312	GLU	C-N-CA	5.50	129.46	122.37
4	L3	522	LYS	CA-C-N	5.50	127.59	120.44
4	L3	522	LYS	C-N-CA	5.50	127.59	120.44
49	Lm	408	VAL	CA-C-N	5.50	127.65	120.28
49	Lm	408	VAL	C-N-CA	5.50	127.65	120.28
51	Lo	105	THR	CA-C-N	5.50	129.28	121.42
51	Lo	105	THR	C-N-CA	5.50	129.28	121.42
55	Ls	524	LYS	CA-C-N	5.50	130.75	123.00
55	Ls	524	LYS	C-N-CA	5.50	130.75	123.00
64	UB	374	ASP	CA-C-N	5.50	128.68	120.87
64	UB	374	ASP	C-N-CA	5.50	128.68	120.87
2	L1	437	ASP	CA-C-N	5.50	128.65	120.95
2	L1	437	ASP	C-N-CA	5.50	128.65	120.95
13	LC	473	THR	CA-C-N	5.50	127.59	120.44
13	LC	473	THR	C-N-CA	5.50	127.59	120.44
34	LX	168	GLU	CA-C-N	5.50	127.59	120.44
34	LX	168	GLU	C-N-CA	5.50	127.59	120.44
41	Le	422	ILE	CA-C-N	5.50	127.58	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	Le	422	ILE	C-N-CA	5.50	127.58	120.44
55	Ls	585	ALA	CA-C-N	5.50	130.63	122.99
55	Ls	585	ALA	C-N-CA	5.50	130.63	122.99
96	lO	16	A	C4'-C3'-O3'	5.50	117.65	109.40
44	Lh	512	HIS	CA-C-N	5.50	127.64	120.28
44	Lh	512	HIS	C-N-CA	5.50	127.64	120.28
70	UH	245	TYR	CA-C-N	5.50	128.19	120.28
70	UH	245	TYR	C-N-CA	5.50	128.19	120.28
22	LL	139	THR	CA-C-N	5.49	127.64	120.28
22	LL	139	THR	C-N-CA	5.49	127.64	120.28
22	LL	239	ALA	CA-C-N	5.49	127.64	120.28
22	LL	239	ALA	C-N-CA	5.49	127.64	120.28
22	LL	243	ALA	CA-C-N	5.49	127.58	120.44
22	LL	243	ALA	C-N-CA	5.49	127.58	120.44
35	LY	434	MET	CA-C-N	5.49	130.89	122.93
35	LY	434	MET	C-N-CA	5.49	130.89	122.93
38	Lb	509	GLY	CA-C-N	5.49	128.67	120.87
38	Lb	509	GLY	C-N-CA	5.49	128.67	120.87
38	Lb	859	LYS	CA-C-N	5.49	127.58	120.44
38	Lb	859	LYS	C-N-CA	5.49	127.58	120.44
46	Lj	14	ARG	N-CA-CB	5.49	117.97	110.01
61	Ly	665	THR	CA-C-N	5.49	127.58	120.44
61	Ly	665	THR	C-N-CA	5.49	127.58	120.44
70	UH	259	CYS	CA-C-N	5.49	126.63	120.42
70	UH	259	CYS	C-N-CA	5.49	126.63	120.42
35	LY	406	TYR	CA-C-N	5.49	128.09	120.29
35	LY	406	TYR	C-N-CA	5.49	128.09	120.29
43	Lg	134	ARG	CB-CG-CD	5.49	123.93	111.30
1	L0	456	VAL	CA-C-N	5.49	128.19	120.28
1	L0	456	VAL	C-N-CA	5.49	128.19	120.28
19	LI	85	SER	CA-C-N	5.49	127.58	120.44
19	LI	85	SER	C-N-CA	5.49	127.58	120.44
29	LS	26	THR	CA-C-N	5.49	129.68	121.72
29	LS	26	THR	C-N-CA	5.49	129.68	121.72
32	LV	247	ASP	CA-C-N	5.49	127.86	120.50
32	LV	247	ASP	C-N-CA	5.49	127.86	120.50
35	LY	471	ASP	CA-C-N	5.49	127.64	120.28
35	LY	471	ASP	C-N-CA	5.49	127.64	120.28
37	La	68	VAL	CA-C-N	5.49	130.89	122.93
37	La	68	VAL	C-N-CA	5.49	130.89	122.93
38	Lb	584	ARG	N-CA-CB	5.49	118.19	110.12
51	Lo	296	ALA	CA-C-N	5.49	127.58	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
51	Lo	296	ALA	C-N-CA	5.49	127.58	120.44
52	Lp	650	ARG	N-CA-CB	5.49	117.97	110.01
22	LL	684	THR	CA-C-N	5.49	129.23	121.66
22	LL	684	THR	C-N-CA	5.49	129.23	121.66
32	LV	364	PRO	CA-C-N	5.49	127.63	120.28
32	LV	364	PRO	C-N-CA	5.49	127.63	120.28
37	La	100	ALA	CA-C-N	5.49	130.68	123.11
37	La	100	ALA	C-N-CA	5.49	130.68	123.11
40	Ld	430	VAL	CA-C-N	5.49	127.47	120.56
40	Ld	430	VAL	C-N-CA	5.49	127.47	120.56
44	Lh	633	LYS	CA-C-N	5.49	127.57	120.44
44	Lh	633	LYS	C-N-CA	5.49	127.57	120.44
51	Lo	222	GLU	CA-C-N	5.49	127.58	120.44
51	Lo	222	GLU	C-N-CA	5.49	127.58	120.44
70	UH	258	GLN	CA-C-N	5.49	127.58	120.44
70	UH	258	GLN	C-N-CA	5.49	127.58	120.44
31	LU	275	ASP	CA-C-N	5.49	127.57	120.44
31	LU	275	ASP	C-N-CA	5.49	127.57	120.44
58	Lv	70	LEU	CA-C-N	5.49	127.63	120.28
58	Lv	70	LEU	C-N-CA	5.49	127.63	120.28
20	LJ	21	ILE	CA-C-N	5.49	127.57	120.44
20	LJ	21	ILE	C-N-CA	5.49	127.57	120.44
29	LS	151	SER	CA-C-N	5.49	128.66	120.87
29	LS	151	SER	C-N-CA	5.49	128.66	120.87
40	Ld	623	PHE	CA-C-N	5.49	127.57	120.44
40	Ld	623	PHE	C-N-CA	5.49	127.57	120.44
44	Lh	509	LYS	CA-C-N	5.49	128.08	120.29
44	Lh	509	LYS	C-N-CA	5.49	128.08	120.29
36	LZ	156	PRO	CA-C-N	5.48	127.47	120.56
36	LZ	156	PRO	C-N-CA	5.48	127.47	120.56
40	Ld	310	ARG	N-CA-CB	5.48	117.96	110.01
12	LB	108	TYR	N-CA-CB	5.48	117.96	110.01
22	LL	305	TRP	CA-C-N	5.48	127.57	120.44
22	LL	305	TRP	C-N-CA	5.48	127.57	120.44
29	LS	15	GLN	CA-C-N	5.48	128.64	120.31
29	LS	15	GLN	C-N-CA	5.48	128.64	120.31
29	LS	181	LEU	CA-C-N	5.48	128.66	120.87
29	LS	181	LEU	C-N-CA	5.48	128.66	120.87
33	LW	369	LYS	CA-C-N	5.48	130.88	122.93
33	LW	369	LYS	C-N-CA	5.48	130.88	122.93
37	La	49	THR	CA-C-N	5.48	127.57	120.44
37	La	49	THR	C-N-CA	5.48	127.57	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	La	56	TYR	CA-C-N	5.48	128.07	120.29
37	La	56	TYR	C-N-CA	5.48	128.07	120.29
47	Lk	466	PRO	CA-C-N	5.48	127.97	120.46
47	Lk	466	PRO	C-N-CA	5.48	127.97	120.46
61	Ly	331	THR	CA-C-N	5.48	127.63	120.28
61	Ly	331	THR	C-N-CA	5.48	127.63	120.28
32	LV	1074	ARG	CA-C-N	5.48	127.46	120.56
32	LV	1074	ARG	C-N-CA	5.48	127.46	120.56
36	LZ	5	ARG	CA-C-N	5.48	127.92	120.63
36	LZ	5	ARG	C-N-CA	5.48	127.92	120.63
47	Lk	399	VAL	CA-C-N	5.48	130.16	121.99
47	Lk	399	VAL	C-N-CA	5.48	130.16	121.99
52	Lp	563	VAL	CA-C-N	5.48	131.16	122.94
52	Lp	563	VAL	C-N-CA	5.48	131.16	122.94
59	Lw	13	ARG	CA-C-N	5.48	130.61	122.99
59	Lw	13	ARG	C-N-CA	5.48	130.61	122.99
61	Ly	309	PRO	CA-C-N	5.48	129.92	122.19
61	Ly	309	PRO	C-N-CA	5.48	129.92	122.19
61	Ly	595	LEU	CA-C-N	5.48	130.06	122.77
61	Ly	595	LEU	C-N-CA	5.48	130.06	122.77
3	L2	100	SER	CA-C-N	5.48	127.56	120.44
3	L2	100	SER	C-N-CA	5.48	127.56	120.44
22	LL	135	SER	CA-C-N	5.48	127.46	120.56
22	LL	135	SER	C-N-CA	5.48	127.46	120.56
84	lC	20	A	C3'-C2'-O2'	5.48	118.92	110.70
3	L2	71	ARG	CA-C-N	5.48	128.07	120.29
3	L2	71	ARG	C-N-CA	5.48	128.07	120.29
12	LB	9	PHE	CA-C-N	5.48	127.56	120.44
12	LB	9	PHE	C-N-CA	5.48	127.56	120.44
14	LD	551	HIS	CA-C-N	5.48	129.69	122.30
14	LD	551	HIS	C-N-CA	5.48	129.69	122.30
61	Ly	601	VAL	N-CA-CB	5.48	116.50	110.53
13	LC	174	THR	CA-C-N	5.47	129.91	122.19
13	LC	174	THR	C-N-CA	5.47	129.91	122.19
20	LJ	194	ALA	CA-C-N	5.47	127.56	120.44
20	LJ	194	ALA	C-N-CA	5.47	127.56	120.44
27	LQ	373	LEU	CA-C-N	5.47	127.56	120.44
27	LQ	373	LEU	C-N-CA	5.47	127.56	120.44
29	LS	61	ASP	CA-C-N	5.47	129.66	121.72
29	LS	61	ASP	C-N-CA	5.47	129.66	121.72
32	LV	801	ARG	CD-NE-CZ	5.47	132.06	124.40
52	Lp	473	LYS	N-CA-CB	5.47	117.87	110.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	643	GLU	CA-C-N	5.47	127.62	120.28
53	Lq	643	GLU	C-N-CA	5.47	127.62	120.28
10	L9	422	GLU	CA-C-N	5.47	127.61	120.28
10	L9	422	GLU	C-N-CA	5.47	127.61	120.28
21	LK	67	SER	CA-C-N	5.47	127.55	120.44
21	LK	67	SER	C-N-CA	5.47	127.55	120.44
32	LV	594	LEU	CA-C-N	5.47	127.61	120.28
32	LV	594	LEU	C-N-CA	5.47	127.61	120.28
41	Le	449	LEU	CA-C-N	5.47	128.06	120.29
41	Le	449	LEU	C-N-CA	5.47	128.06	120.29
4	L3	612	GLU	CA-C-N	5.47	130.54	122.94
4	L3	612	GLU	C-N-CA	5.47	130.54	122.94
14	LD	585	ARG	CA-C-N	5.47	128.06	120.29
14	LD	585	ARG	C-N-CA	5.47	128.06	120.29
23	LM	39	GLU	CA-C-N	5.47	127.88	120.44
23	LM	39	GLU	C-N-CA	5.47	127.88	120.44
35	LY	474	PHE	CA-C-N	5.47	128.16	120.28
35	LY	474	PHE	C-N-CA	5.47	128.16	120.28
44	Lh	412	PHE	CA-C-N	5.47	127.55	120.44
44	Lh	412	PHE	C-N-CA	5.47	127.55	120.44
1	L0	335	LYS	CA-C-N	5.47	127.88	120.44
1	L0	335	LYS	C-N-CA	5.47	127.88	120.44
20	LJ	76	HIS	CA-C-N	5.47	130.62	122.86
20	LJ	76	HIS	C-N-CA	5.47	130.62	122.86
22	LL	313	ARG	CA-C-N	5.47	128.53	120.82
22	LL	313	ARG	C-N-CA	5.47	128.53	120.82
28	LR	32	PHE	N-CA-CB	5.47	118.00	109.97
30	LT	10	ARG	CA-C-N	5.47	128.63	120.87
30	LT	10	ARG	C-N-CA	5.47	128.63	120.87
44	Lh	407	TYR	CA-C-N	5.47	127.55	120.44
44	Lh	407	TYR	C-N-CA	5.47	127.55	120.44
53	Lq	476	ALA	CA-C-N	5.47	127.55	120.44
53	Lq	476	ALA	C-N-CA	5.47	127.55	120.44
58	Lv	52	GLN	CA-C-N	5.47	130.54	123.00
58	Lv	52	GLN	C-N-CA	5.47	130.54	123.00
5	L4	277	ARG	CA-C-N	5.46	128.05	120.29
5	L4	277	ARG	C-N-CA	5.46	128.05	120.29
43	Lg	47	ALA	CA-C-N	5.46	129.44	122.83
43	Lg	47	ALA	C-N-CA	5.46	129.44	122.83
53	Lq	259	ASN	CA-C-N	5.46	127.55	120.56
53	Lq	259	ASN	C-N-CA	5.46	127.55	120.56
24	LN	247	VAL	CA-C-N	5.46	127.54	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
24	LN	247	VAL	C-N-CA	5.46	127.54	120.44
41	Le	465	GLU	CA-C-N	5.46	129.89	122.19
41	Le	465	GLU	C-N-CA	5.46	129.89	122.19
53	Lq	232	ALA	CA-C-N	5.46	127.87	120.44
53	Lq	232	ALA	C-N-CA	5.46	127.87	120.44
21	LK	115	ALA	CA-C-N	5.46	127.54	120.44
21	LK	115	ALA	C-N-CA	5.46	127.54	120.44
53	Lq	478	ARG	CA-C-N	5.46	127.60	120.28
53	Lq	478	ARG	C-N-CA	5.46	127.60	120.28
1	L0	599	GLN	CA-C-N	5.46	127.44	120.56
1	L0	599	GLN	C-N-CA	5.46	127.44	120.56
3	L2	74	PHE	N-CA-CB	5.46	117.92	110.01
14	LD	575	LEU	CA-C-N	5.46	127.59	120.28
14	LD	575	LEU	C-N-CA	5.46	127.59	120.28
33	LW	382	PHE	CA-C-N	5.46	128.05	120.63
33	LW	382	PHE	C-N-CA	5.46	128.05	120.63
47	Lk	517	PHE	CA-C-N	5.46	129.81	122.93
47	Lk	517	PHE	C-N-CA	5.46	129.81	122.93
1	L0	360	VAL	CA-C-N	5.46	130.53	123.00
1	L0	360	VAL	C-N-CA	5.46	130.53	123.00
11	LA	170	PRO	CA-C-N	5.46	127.44	120.56
11	LA	170	PRO	C-N-CA	5.46	127.44	120.56
30	LT	47	LYS	CA-C-N	5.46	128.62	120.87
30	LT	47	LYS	C-N-CA	5.46	128.62	120.87
36	LZ	30	ASN	CA-C-N	5.46	131.22	123.14
36	LZ	30	ASN	C-N-CA	5.46	131.22	123.14
38	Lb	349	ASP	CA-C-N	5.46	127.44	120.56
38	Lb	349	ASP	C-N-CA	5.46	127.44	120.56
56	Lt	255	HIS	N-CA-CB	5.46	117.92	110.01
25	LO	88	PRO	CA-C-N	5.46	127.53	120.44
25	LO	88	PRO	C-N-CA	5.46	127.53	120.44
44	Lh	360	GLU	CA-C-N	5.45	130.44	122.69
44	Lh	360	GLU	C-N-CA	5.45	130.44	122.69
54	Lr	50	TYR	CA-CB-CG	5.45	123.72	113.90
39	Lc	325	GLU	CA-C-N	5.45	127.53	120.44
39	Lc	325	GLU	C-N-CA	5.45	127.53	120.44
46	Lj	35	PHE	CA-C-N	5.45	129.87	122.56
46	Lj	35	PHE	C-N-CA	5.45	129.87	122.56
4	L3	663	TYR	N-CA-CB	5.45	117.98	109.97
9	L8	168	LYS	CA-C-N	5.45	127.53	120.44
9	L8	168	LYS	C-N-CA	5.45	127.53	120.44
11	LA	101	THR	CA-C-N	5.45	130.42	122.41

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	LA	101	THR	C-N-CA	5.45	130.42	122.41
21	LK	242	ARG	CA-C-N	5.45	130.77	122.65
21	LK	242	ARG	C-N-CA	5.45	130.77	122.65
24	LN	326	ILE	CA-C-N	5.45	130.85	123.11
24	LN	326	ILE	C-N-CA	5.45	130.85	123.11
30	LT	89	LEU	CA-C-N	5.45	128.03	120.29
30	LT	89	LEU	C-N-CA	5.45	128.03	120.29
46	Lj	100	GLN	CB-CG-CD	5.45	121.87	112.60
35	LY	304	THR	CA-C-N	5.45	129.16	121.53
35	LY	304	THR	C-N-CA	5.45	129.16	121.53
35	LY	541	VAL	CA-C-N	5.45	127.52	120.44
35	LY	541	VAL	C-N-CA	5.45	127.52	120.44
41	Le	565	SER	CA-C-N	5.45	127.52	120.44
41	Le	565	SER	C-N-CA	5.45	127.52	120.44
42	Lf	352	ASP	CA-C-N	5.45	127.52	120.44
42	Lf	352	ASP	C-N-CA	5.45	127.52	120.44
43	Lg	200	PRO	CA-C-N	5.45	130.60	122.86
43	Lg	200	PRO	C-N-CA	5.45	130.60	122.86
8	L7	41	LYS	CA-C-N	5.45	129.18	121.66
8	L7	41	LYS	C-N-CA	5.45	129.18	121.66
55	Ls	389	VAL	CA-C-N	5.45	129.63	122.06
55	Ls	389	VAL	C-N-CA	5.45	129.63	122.06
4	L3	564	SER	CA-C-N	5.45	128.02	120.29
4	L3	564	SER	C-N-CA	5.45	128.02	120.29
14	LD	513	SER	CA-C-N	5.45	129.62	121.72
14	LD	513	SER	C-N-CA	5.45	129.62	121.72
32	LV	681	ARG	CA-C-N	5.45	127.52	120.44
32	LV	681	ARG	C-N-CA	5.45	127.52	120.44
57	Lu	349	ALA	CA-C-N	5.45	127.52	120.44
57	Lu	349	ALA	C-N-CA	5.45	127.52	120.44
59	Lw	168	LYS	N-CA-CB	5.45	117.91	110.01
13	LC	154	PRO	CA-C-N	5.44	128.60	120.87
13	LC	154	PRO	C-N-CA	5.44	128.60	120.87
47	Lk	554	GLU	N-CA-CB	5.44	117.90	110.01
13	LC	291	ARG	CA-C-N	5.44	127.52	120.44
13	LC	291	ARG	C-N-CA	5.44	127.52	120.44
42	Lf	353	LYS	CA-CB-CG	5.44	124.99	114.10
44	Lh	656	PRO	CA-C-N	5.44	129.89	120.58
44	Lh	656	PRO	C-N-CA	5.44	129.89	120.58
49	Lm	417	GLN	CA-C-N	5.44	127.52	120.44
49	Lm	417	GLN	C-N-CA	5.44	127.52	120.44
52	Lp	584	ILE	CA-C-N	5.44	127.42	120.56

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	Lp	584	ILE	C-N-CA	5.44	127.42	120.56
54	Lr	265	ARG	CA-C-N	5.44	131.20	123.14
54	Lr	265	ARG	C-N-CA	5.44	131.20	123.14
31	LU	262	VAL	CA-C-N	5.44	131.95	122.81
31	LU	262	VAL	C-N-CA	5.44	131.95	122.81
39	Lc	521	ILE	CA-C-N	5.44	127.51	120.44
39	Lc	521	ILE	C-N-CA	5.44	127.51	120.44
61	Ly	512	VAL	N-CA-CB	5.44	116.46	110.53
36	LZ	78	PRO	CA-C-N	5.44	131.19	123.14
36	LZ	78	PRO	C-N-CA	5.44	131.19	123.14
41	Le	631	GLN	CA-C-N	5.44	127.51	120.44
41	Le	631	GLN	C-N-CA	5.44	127.51	120.44
3	L2	124	ARG	CA-C-N	5.44	129.86	122.19
3	L2	124	ARG	C-N-CA	5.44	129.86	122.19
25	LO	298	MET	CA-C-N	5.44	128.94	120.68
25	LO	298	MET	C-N-CA	5.44	128.94	120.68
28	LR	31	ARG	CA-C-N	5.44	128.59	120.87
28	LR	31	ARG	C-N-CA	5.44	128.59	120.87
33	LW	466	HIS	CA-C-N	5.44	127.51	120.44
33	LW	466	HIS	C-N-CA	5.44	127.51	120.44
54	Lr	262	LYS	CA-C-N	5.44	130.09	121.99
54	Lr	262	LYS	C-N-CA	5.44	130.09	121.99
60	Lx	290	ALA	CA-C-N	5.44	127.51	120.44
60	Lx	290	ALA	C-N-CA	5.44	127.51	120.44
14	LD	505	LEU	CA-C-N	5.44	127.56	120.28
14	LD	505	LEU	C-N-CA	5.44	127.56	120.28
32	LV	955	ARG	CA-C-N	5.44	127.41	120.56
32	LV	955	ARG	C-N-CA	5.44	127.41	120.56
1	L0	280	LEU	N-CA-CB	5.43	117.96	109.97
20	LJ	254	GLN	CA-C-N	5.43	127.51	120.44
20	LJ	254	GLN	C-N-CA	5.43	127.51	120.44
22	LL	275	SER	CA-C-N	5.43	127.78	120.50
22	LL	275	SER	C-N-CA	5.43	127.78	120.50
31	LU	278	ALA	CA-C-N	5.43	127.52	120.56
31	LU	278	ALA	C-N-CA	5.43	127.52	120.56
33	LW	419	GLY	N-CA-C	5.43	118.92	110.88
39	Lc	502	LEU	CA-C-N	5.43	130.65	121.14
39	Lc	502	LEU	C-N-CA	5.43	130.65	121.14
43	Lg	163	SER	CA-C-N	5.43	128.01	120.29
43	Lg	163	SER	C-N-CA	5.43	128.01	120.29
51	Lo	191	ALA	CA-C-N	5.43	127.91	120.46
51	Lo	191	ALA	C-N-CA	5.43	127.91	120.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L0	364	SER	CA-C-N	5.43	129.78	120.71
1	L0	364	SER	C-N-CA	5.43	129.78	120.71
20	LJ	219	VAL	CA-C-N	5.43	128.00	120.29
20	LJ	219	VAL	C-N-CA	5.43	128.00	120.29
44	Lh	477	LYS	CA-C-N	5.43	127.50	120.44
44	Lh	477	LYS	C-N-CA	5.43	127.50	120.44
45	Li	708	LEU	CA-C-N	5.43	127.50	120.44
45	Li	708	LEU	C-N-CA	5.43	127.50	120.44
68	UF	15	GLN	CA-C-N	5.43	127.56	120.28
68	UF	15	GLN	C-N-CA	5.43	127.56	120.28
13	LC	130	GLU	CA-C-N	5.43	127.50	120.44
13	LC	130	GLU	C-N-CA	5.43	127.50	120.44
20	LJ	411	GLN	CA-C-N	5.43	127.50	120.44
20	LJ	411	GLN	C-N-CA	5.43	127.50	120.44
26	LP	168	THR	CA-C-N	5.43	128.58	120.87
26	LP	168	THR	C-N-CA	5.43	128.58	120.87
33	LW	455	LEU	CA-C-N	5.43	130.53	122.71
33	LW	455	LEU	C-N-CA	5.43	130.53	122.71
51	Lo	185	SER	CA-C-N	5.43	128.56	120.31
51	Lo	185	SER	C-N-CA	5.43	128.56	120.31
63	UA	309	ASP	CA-CB-CG	5.43	118.03	112.60
3	L2	222	GLU	CA-C-N	5.43	127.50	120.44
3	L2	222	GLU	C-N-CA	5.43	127.50	120.44
14	LD	502	LEU	CA-C-N	5.43	127.50	120.44
14	LD	502	LEU	C-N-CA	5.43	127.50	120.44
20	LJ	303	ALA	CA-C-N	5.43	127.50	120.44
20	LJ	303	ALA	C-N-CA	5.43	127.50	120.44
24	LN	259	ARG	N-CA-CB	5.43	117.88	110.01
30	LT	48	TYR	N-CA-CB	5.43	117.95	109.97
68	UF	28	VAL	CA-C-N	5.43	127.50	120.44
68	UF	28	VAL	C-N-CA	5.43	127.50	120.44
69	UG	299	LEU	CA-C-N	5.43	128.00	120.29
69	UG	299	LEU	C-N-CA	5.43	128.00	120.29
39	Lc	534	HIS	CA-C-N	5.43	129.63	122.30
39	Lc	534	HIS	C-N-CA	5.43	129.63	122.30
46	Lj	57	THR	CA-C-N	5.43	127.55	120.28
46	Lj	57	THR	C-N-CA	5.43	127.55	120.28
23	LM	40	PHE	CA-C-N	5.43	127.49	120.44
23	LM	40	PHE	C-N-CA	5.43	127.49	120.44
41	Le	608	LEU	CA-C-N	5.43	127.49	120.44
41	Le	608	LEU	C-N-CA	5.43	127.49	120.44
55	Ls	403	THR	CA-C-N	5.43	128.57	120.87

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	Ls	403	THR	C-N-CA	5.43	128.57	120.87
13	LC	466	SER	CA-C-N	5.42	127.49	120.44
13	LC	466	SER	C-N-CA	5.42	127.49	120.44
21	LK	262	PHE	CA-C-N	5.42	130.39	122.69
21	LK	262	PHE	C-N-CA	5.42	130.39	122.69
24	LN	350	TYR	CA-C-N	5.42	128.41	120.71
24	LN	350	TYR	C-N-CA	5.42	128.41	120.71
27	LQ	377	ASN	CA-C-N	5.42	127.49	120.44
27	LQ	377	ASN	C-N-CA	5.42	127.49	120.44
32	LV	411	VAL	CA-C-N	5.42	127.49	120.44
32	LV	411	VAL	C-N-CA	5.42	127.49	120.44
32	LV	970	ARG	CA-C-N	5.42	128.57	120.87
32	LV	970	ARG	C-N-CA	5.42	128.57	120.87
40	Ld	417	LEU	CA-C-N	5.42	127.49	120.44
40	Ld	417	LEU	C-N-CA	5.42	127.49	120.44
49	Lm	351	SER	N-CA-CB	5.42	117.98	110.17
69	UG	320	ILE	CA-C-N	5.42	130.64	123.05
69	UG	320	ILE	C-N-CA	5.42	130.64	123.05
6	L5	472	ALA	CA-C-N	5.42	127.49	120.44
6	L5	472	ALA	C-N-CA	5.42	127.49	120.44
11	LA	147	MET	CA-C-N	5.42	127.99	120.29
11	LA	147	MET	C-N-CA	5.42	127.99	120.29
11	LA	159	VAL	CA-C-N	5.42	127.49	120.44
11	LA	159	VAL	C-N-CA	5.42	127.49	120.44
38	Lb	389	ALA	CA-C-N	5.42	127.49	120.44
38	Lb	389	ALA	C-N-CA	5.42	127.49	120.44
45	Li	522	HIS	CA-C-N	5.42	127.49	120.44
45	Li	522	HIS	C-N-CA	5.42	127.49	120.44
20	LJ	133	HIS	CA-C-N	5.42	127.49	120.44
20	LJ	133	HIS	C-N-CA	5.42	127.49	120.44
38	Lb	587	ALA	CA-C-N	5.42	127.49	120.44
38	Lb	587	ALA	C-N-CA	5.42	127.49	120.44
51	Lo	95	LYS	CA-C-N	5.42	127.76	120.50
51	Lo	95	LYS	C-N-CA	5.42	127.76	120.50
1	L0	431	PRO	CA-C-N	5.42	127.48	120.44
1	L0	431	PRO	C-N-CA	5.42	127.48	120.44
13	LC	161	GLY	CA-C-N	5.42	127.84	120.63
13	LC	161	GLY	C-N-CA	5.42	127.84	120.63
37	La	208	GLU	CA-C-N	5.42	127.54	120.28
37	La	208	GLU	C-N-CA	5.42	127.54	120.28
38	Lb	725	ALA	CA-C-N	5.42	127.80	120.65
38	Lb	725	ALA	C-N-CA	5.42	127.80	120.65

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Li	574	MET	CA-C-N	5.42	127.54	120.28
45	Li	574	MET	C-N-CA	5.42	127.54	120.28
49	Lm	326	LEU	CA-C-N	5.42	130.66	122.91
49	Lm	326	LEU	C-N-CA	5.42	130.66	122.91
69	UG	317	GLY	N-CA-C	5.42	120.72	114.16
13	LC	452	SER	N-CA-CB	5.42	117.93	109.97
25	LO	97	LEU	CA-C-N	5.42	129.25	121.50
25	LO	97	LEU	C-N-CA	5.42	129.25	121.50
32	LV	921	HIS	CA-CB-CG	5.42	119.22	113.80
39	Lc	494	ARG	CA-C-N	5.42	127.39	120.56
39	Lc	494	ARG	C-N-CA	5.42	127.39	120.56
39	Lc	530	ALA	CA-C-N	5.42	127.98	120.29
39	Lc	530	ALA	C-N-CA	5.42	127.98	120.29
41	Le	303	PHE	CA-C-N	5.42	127.48	120.44
41	Le	303	PHE	C-N-CA	5.42	127.48	120.44
57	Lu	271	HIS	CA-C-N	5.42	127.48	120.44
57	Lu	271	HIS	C-N-CA	5.42	127.48	120.44
57	Lu	350	TRP	CA-C-N	5.42	127.48	120.44
57	Lu	350	TRP	C-N-CA	5.42	127.48	120.44
62	Lz	202	HIS	N-CA-CB	5.42	117.98	109.69
39	Lc	352	THR	CA-C-N	5.41	130.04	122.79
39	Lc	352	THR	C-N-CA	5.41	130.04	122.79
39	Lc	495	VAL	CA-C-N	5.41	127.48	120.44
39	Lc	495	VAL	C-N-CA	5.41	127.48	120.44
4	L3	613	VAL	CA-C-N	5.41	130.37	122.41
4	L3	613	VAL	C-N-CA	5.41	130.37	122.41
43	Lg	182	ASP	CA-C-N	5.41	127.38	120.56
43	Lg	182	ASP	C-N-CA	5.41	127.38	120.56
45	Li	362	PHE	CA-C-N	5.41	131.35	123.12
45	Li	362	PHE	C-N-CA	5.41	131.35	123.12
13	LC	126	GLN	CA-C-N	5.41	127.87	120.35
13	LC	126	GLN	C-N-CA	5.41	127.87	120.35
52	Lp	653	TYR	N-CA-CB	5.41	117.86	110.01
52	Lp	707	LYS	N-CA-CB	5.41	117.86	110.01
53	Lq	647	ARG	CA-C-N	5.41	127.53	120.28
53	Lq	647	ARG	C-N-CA	5.41	127.53	120.28
55	Ls	392	GLN	CA-C-N	5.41	130.04	122.41
55	Ls	392	GLN	C-N-CA	5.41	130.04	122.41
67	UE	137	HIS	CA-C-N	5.41	127.53	120.28
67	UE	137	HIS	C-N-CA	5.41	127.53	120.28
38	Lb	671	PHE	CA-C-N	5.41	127.47	120.44
38	Lb	671	PHE	C-N-CA	5.41	127.47	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	520	MET	CA-C-N	5.41	127.37	120.56
39	Lc	520	MET	C-N-CA	5.41	127.37	120.56
40	Ld	561	GLN	CA-C-N	5.41	129.03	121.24
40	Ld	561	GLN	C-N-CA	5.41	129.03	121.24
41	Le	307	LEU	CA-C-N	5.41	127.38	120.56
41	Le	307	LEU	C-N-CA	5.41	127.38	120.56
56	Lt	63	PHE	CA-C-N	5.41	127.97	120.29
56	Lt	63	PHE	C-N-CA	5.41	127.97	120.29
61	Ly	450	GLU	CA-C-N	5.41	127.80	120.44
61	Ly	450	GLU	C-N-CA	5.41	127.80	120.44
47	Lk	548	ALA	CA-C-N	5.41	127.47	120.44
47	Lk	548	ALA	C-N-CA	5.41	127.47	120.44
51	Lo	239	VAL	CA-C-N	5.41	127.37	120.56
51	Lo	239	VAL	C-N-CA	5.41	127.37	120.56
21	LK	263	ILE	CA-C-N	5.41	128.54	120.87
21	LK	263	ILE	C-N-CA	5.41	128.54	120.87
25	LO	245	VAL	CA-C-N	5.41	129.60	122.30
25	LO	245	VAL	C-N-CA	5.41	129.60	122.30
29	LS	58	GLU	CA-C-N	5.41	127.74	120.50
29	LS	58	GLU	C-N-CA	5.41	127.74	120.50
38	Lb	347	VAL	CA-C-N	5.41	127.47	120.44
38	Lb	347	VAL	C-N-CA	5.41	127.47	120.44
38	Lb	816	SER	CA-C-N	5.41	127.97	120.29
38	Lb	816	SER	C-N-CA	5.41	127.97	120.29
53	Lq	660	HIS	CA-C-N	5.41	127.52	120.28
53	Lq	660	HIS	C-N-CA	5.41	127.52	120.28
57	Lu	285	THR	CA-C-N	5.41	127.53	120.28
57	Lu	285	THR	C-N-CA	5.41	127.53	120.28
38	Lb	789	PHE	CA-C-N	5.40	127.47	120.44
38	Lb	789	PHE	C-N-CA	5.40	127.47	120.44
39	Lc	597	LYS	CA-C-N	5.40	127.47	120.44
39	Lc	597	LYS	C-N-CA	5.40	127.47	120.44
41	Le	540	GLY	N-CA-C	5.40	118.34	112.29
23	LM	107	ILE	CA-C-N	5.40	127.46	120.44
23	LM	107	ILE	C-N-CA	5.40	127.46	120.44
34	LX	133	PRO	CA-C-N	5.40	130.45	122.94
34	LX	133	PRO	C-N-CA	5.40	130.45	122.94
34	LX	150	GLU	CA-C-N	5.40	127.46	120.44
34	LX	150	GLU	C-N-CA	5.40	127.46	120.44
34	LX	174	ALA	CA-C-N	5.40	127.46	120.44
34	LX	174	ALA	C-N-CA	5.40	127.46	120.44
51	Lo	104	THR	CA-C-N	5.40	128.38	120.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
51	Lo	104	THR	C-N-CA	5.40	128.38	120.71
14	LD	374	ALA	CA-C-N	5.40	127.46	120.44
14	LD	374	ALA	C-N-CA	5.40	127.46	120.44
20	LJ	37	GLN	CA-C-N	5.40	131.04	122.94
20	LJ	37	GLN	C-N-CA	5.40	131.04	122.94
39	Lc	606	VAL	CA-C-N	5.40	130.08	122.09
39	Lc	606	VAL	C-N-CA	5.40	130.08	122.09
47	Lk	471	GLY	CA-C-N	5.40	127.36	120.56
47	Lk	471	GLY	C-N-CA	5.40	127.36	120.56
51	Lo	332	PRO	CA-C-N	5.40	130.38	122.98
51	Lo	332	PRO	C-N-CA	5.40	130.38	122.98
52	Lp	381	ARG	CA-C-N	5.40	128.67	120.95
52	Lp	381	ARG	C-N-CA	5.40	128.67	120.95
38	Lb	685	ARG	CA-C-N	5.40	127.52	120.28
38	Lb	685	ARG	C-N-CA	5.40	127.52	120.28
51	Lo	290	ARG	CA-C-N	5.40	128.51	120.95
51	Lo	290	ARG	C-N-CA	5.40	128.51	120.95
53	Lq	180	ALA	CA-C-N	5.40	127.46	120.44
53	Lq	180	ALA	C-N-CA	5.40	127.46	120.44
93	lL	85	A	C4'-C3'-O3'	5.40	117.50	109.40
25	LO	269	SER	N-CA-CB	5.40	117.63	110.29
33	LW	438	GLN	N-CA-CB	5.40	117.79	109.91
39	Lc	452	ARG	CA-C-N	5.40	127.51	120.28
39	Lc	452	ARG	C-N-CA	5.40	127.51	120.28
32	LV	957	ASP	CA-CB-CG	5.40	118.00	112.60
33	LW	444	LEU	CA-C-N	5.40	129.54	121.72
33	LW	444	LEU	C-N-CA	5.40	129.54	121.72
38	Lb	756	GLU	CA-C-N	5.40	127.45	120.44
38	Lb	756	GLU	C-N-CA	5.40	127.45	120.44
9	L8	211	TYR	CA-C-N	5.39	128.37	120.71
9	L8	211	TYR	C-N-CA	5.39	128.37	120.71
11	LA	20	GLY	N-CA-C	5.39	119.51	110.56
13	LC	476	ARG	CA-C-N	5.39	127.45	120.44
13	LC	476	ARG	C-N-CA	5.39	127.45	120.44
20	LJ	60	GLY	CA-C-N	5.39	127.45	120.44
20	LJ	60	GLY	C-N-CA	5.39	127.45	120.44
20	LJ	409	SER	CA-C-N	5.39	127.51	120.28
20	LJ	409	SER	C-N-CA	5.39	127.51	120.28
33	LW	286	ARG	CA-C-N	5.39	130.07	121.66
33	LW	286	ARG	C-N-CA	5.39	130.07	121.66
33	LW	287	CYS	CA-C-N	5.39	130.44	122.94
33	LW	287	CYS	C-N-CA	5.39	130.44	122.94

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	L8	20	ARG	CA-C-N	5.39	128.53	120.87
9	L8	20	ARG	C-N-CA	5.39	128.53	120.87
12	LB	103	GLU	CA-C-N	5.39	125.97	119.98
12	LB	103	GLU	C-N-CA	5.39	125.97	119.98
23	LM	3	VAL	CA-C-N	5.39	129.18	120.82
23	LM	3	VAL	C-N-CA	5.39	129.18	120.82
38	Lb	842	ARG	CA-C-N	5.39	127.45	120.44
38	Lb	842	ARG	C-N-CA	5.39	127.45	120.44
39	Lc	491	THR	CA-C-N	5.39	130.34	122.41
39	Lc	491	THR	C-N-CA	5.39	130.34	122.41
41	Le	636	ALA	CA-C-N	5.39	128.04	120.28
41	Le	636	ALA	C-N-CA	5.39	128.04	120.28
4	L3	504	GLY	CA-C-N	5.39	130.59	122.99
4	L3	504	GLY	C-N-CA	5.39	130.59	122.99
39	Lc	363	LEU	CA-C-N	5.39	127.46	120.56
39	Lc	363	LEU	C-N-CA	5.39	127.46	120.56
42	Lf	353	LYS	CA-C-N	5.39	127.45	120.44
42	Lf	353	LYS	C-N-CA	5.39	127.45	120.44
46	Lj	48	PHE	N-CA-CB	5.39	117.83	110.01
51	Lo	234	GLY	CA-C-N	5.39	127.50	120.28
51	Lo	234	GLY	C-N-CA	5.39	127.50	120.28
1	L0	398	SER	CA-C-N	5.39	130.33	122.41
1	L0	398	SER	C-N-CA	5.39	130.33	122.41
20	LJ	144	LEU	CA-C-N	5.39	127.45	120.44
20	LJ	144	LEU	C-N-CA	5.39	127.45	120.44
28	LR	44	TYR	CA-C-N	5.39	130.60	123.00
28	LR	44	TYR	C-N-CA	5.39	130.60	123.00
36	LZ	51	GLN	CA-C-N	5.39	131.02	122.94
36	LZ	51	GLN	C-N-CA	5.39	131.02	122.94
36	LZ	194	ARG	CA-C-N	5.39	130.68	122.65
36	LZ	194	ARG	C-N-CA	5.39	130.68	122.65
39	Lc	337	ASP	CA-C-N	5.39	127.45	120.44
39	Lc	337	ASP	C-N-CA	5.39	127.45	120.44
69	UG	377	GLU	CA-C-N	5.39	127.50	120.28
69	UG	377	GLU	C-N-CA	5.39	127.50	120.28
20	LJ	237	PHE	N-CA-CB	5.39	118.04	110.12
33	LW	502	PHE	CA-C-N	5.39	130.94	123.07
33	LW	502	PHE	C-N-CA	5.39	130.94	123.07
36	LZ	107	SER	CA-C-N	5.39	130.74	122.77
36	LZ	107	SER	C-N-CA	5.39	130.74	122.77
56	Lt	104	LYS	CA-CB-CG	5.39	124.88	114.10
1	L0	421	TYR	N-CA-CB	5.39	117.82	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
15	LE	407	ASP	CA-CB-CG	5.39	117.99	112.60
20	LJ	114	HIS	CA-C-N	5.39	128.03	120.28
20	LJ	114	HIS	C-N-CA	5.39	128.03	120.28
21	LK	251	HIS	CA-C-N	5.39	128.50	120.31
21	LK	251	HIS	C-N-CA	5.39	128.50	120.31
32	LV	592	GLY	CA-C-N	5.39	127.81	120.54
32	LV	592	GLY	C-N-CA	5.39	127.81	120.54
41	Le	610	GLU	CA-C-N	5.39	127.44	120.44
41	Le	610	GLU	C-N-CA	5.39	127.44	120.44
42	Lf	346	LEU	CA-C-N	5.39	130.06	122.09
42	Lf	346	LEU	C-N-CA	5.39	130.06	122.09
49	Lm	259	ILE	CA-C-N	5.39	127.44	120.44
49	Lm	259	ILE	C-N-CA	5.39	127.44	120.44
52	Lp	473	LYS	CB-CG-CD	5.39	123.69	111.30
58	Lv	71	LEU	CA-C-N	5.39	127.44	120.44
58	Lv	71	LEU	C-N-CA	5.39	127.44	120.44
61	Ly	634	GLY	CA-C-N	5.39	129.34	121.80
61	Ly	634	GLY	C-N-CA	5.39	129.34	121.80
1	L0	354	THR	CA-C-N	5.38	127.44	120.44
1	L0	354	THR	C-N-CA	5.38	127.44	120.44
19	LI	19	GLY	CA-C-N	5.38	127.94	120.29
19	LI	19	GLY	C-N-CA	5.38	127.94	120.29
20	LJ	271	SER	CA-C-N	5.38	127.44	120.44
20	LJ	271	SER	C-N-CA	5.38	127.44	120.44
31	LU	299	LEU	CA-C-N	5.38	127.44	120.44
31	LU	299	LEU	C-N-CA	5.38	127.44	120.44
39	Lc	318	ASP	CA-C-N	5.38	127.34	120.56
39	Lc	318	ASP	C-N-CA	5.38	127.34	120.56
43	Lg	92	MET	N-CA-CB	5.38	117.89	109.97
43	Lg	202	TRP	CA-C-N	5.38	127.50	120.28
43	Lg	202	TRP	C-N-CA	5.38	127.50	120.28
56	Lt	60	THR	CA-C-N	5.38	127.44	120.44
56	Lt	60	THR	C-N-CA	5.38	127.44	120.44
47	Lk	544	ILE	CA-C-N	5.38	127.44	120.44
47	Lk	544	ILE	C-N-CA	5.38	127.44	120.44
51	Lo	291	ARG	N-CA-CB	5.38	117.87	109.85
61	Ly	587	ARG	CA-C-N	5.38	130.61	122.91
61	Ly	587	ARG	C-N-CA	5.38	130.61	122.91
3	L2	83	LYS	CA-C-N	5.38	127.44	120.44
3	L2	83	LYS	C-N-CA	5.38	127.44	120.44
5	L4	199	ASN	CA-C-N	5.38	127.44	120.44
5	L4	199	ASN	C-N-CA	5.38	127.44	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	LJ	273	ALA	CA-C-N	5.38	127.34	120.56
20	LJ	273	ALA	C-N-CA	5.38	127.34	120.56
38	Lb	743	GLY	CA-C-N	5.38	129.57	122.30
38	Lb	743	GLY	C-N-CA	5.38	129.57	122.30
49	Lm	269	LYS	CA-C-N	5.38	131.18	122.68
49	Lm	269	LYS	C-N-CA	5.38	131.18	122.68
8	L7	42	ILE	N-CA-CB	5.38	116.39	110.53
32	LV	1083	ASP	CA-C-N	5.38	130.01	121.99
32	LV	1083	ASP	C-N-CA	5.38	130.01	121.99
39	Lc	291	VAL	CA-C-N	5.38	128.49	120.31
39	Lc	291	VAL	C-N-CA	5.38	128.49	120.31
12	LB	22	CYS	CA-C-N	5.38	127.83	120.46
12	LB	22	CYS	C-N-CA	5.38	127.83	120.46
18	LH	194	PRO	CA-C-N	5.38	131.10	123.14
18	LH	194	PRO	C-N-CA	5.38	131.10	123.14
22	LL	235	ALA	CA-C-N	5.38	131.25	122.81
22	LL	235	ALA	C-N-CA	5.38	131.25	122.81
30	LT	11	SER	N-CA-CB	5.38	117.88	109.97
36	LZ	67	CYS	CA-C-N	5.38	130.31	121.87
36	LZ	67	CYS	C-N-CA	5.38	130.31	121.87
37	La	64	ARG	CA-C-N	5.38	130.42	122.94
37	La	64	ARG	C-N-CA	5.38	130.42	122.94
38	Lb	315	TYR	CA-C-N	5.38	131.09	122.86
38	Lb	315	TYR	C-N-CA	5.38	131.09	122.86
39	Lc	207	ARG	CA-C-N	5.38	127.49	120.28
39	Lc	207	ARG	C-N-CA	5.38	127.49	120.28
42	Lf	345	LEU	CA-C-N	5.38	131.10	123.14
42	Lf	345	LEU	C-N-CA	5.38	131.10	123.14
57	Lu	383	LYS	CA-C-N	5.38	127.43	120.44
57	Lu	383	LYS	C-N-CA	5.38	127.43	120.44
13	LC	119	LYS	CA-C-N	5.38	127.92	120.29
13	LC	119	LYS	C-N-CA	5.38	127.92	120.29
31	LU	297	HIS	CA-C-N	5.38	127.33	120.56
31	LU	297	HIS	C-N-CA	5.38	127.33	120.56
33	LW	209	SER	CA-C-N	5.38	127.43	120.44
33	LW	209	SER	C-N-CA	5.38	127.43	120.44
39	Lc	610	GLN	CA-C-N	5.38	127.92	120.29
39	Lc	610	GLN	C-N-CA	5.38	127.92	120.29
60	Lx	368	ARG	CA-C-N	5.38	127.43	120.44
60	Lx	368	ARG	C-N-CA	5.38	127.43	120.44
63	UA	249	ALA	CA-C-N	5.38	127.33	120.56
63	UA	249	ALA	C-N-CA	5.38	127.33	120.56

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	UE	127	ARG	CA-C-N	5.38	130.65	122.37
67	UE	127	ARG	C-N-CA	5.38	130.65	122.37
1	L0	328	ARG	CA-C-N	5.38	127.48	120.28
1	L0	328	ARG	C-N-CA	5.38	127.48	120.28
3	L2	107	ASP	CA-C-N	5.38	131.08	122.86
3	L2	107	ASP	C-N-CA	5.38	131.08	122.86
38	Lb	387	LEU	CA-C-N	5.38	127.33	120.56
38	Lb	387	LEU	C-N-CA	5.38	127.33	120.56
45	Li	481	LEU	CA-C-N	5.38	127.48	120.28
45	Li	481	LEU	C-N-CA	5.38	127.48	120.28
6	L5	471	TRP	CA-C-N	5.37	127.43	120.44
6	L5	471	TRP	C-N-CA	5.37	127.43	120.44
11	LA	176	LEU	CA-C-N	5.37	130.35	122.77
11	LA	176	LEU	C-N-CA	5.37	130.35	122.77
40	Ld	549	ARG	CA-CB-CG	5.37	124.85	114.10
49	Lm	359	PRO	CA-C-N	5.37	128.85	120.68
49	Lm	359	PRO	C-N-CA	5.37	128.85	120.68
68	UF	73	PHE	CA-CB-CG	5.37	119.17	113.80
69	UG	309	GLU	CA-C-N	5.37	127.48	120.28
69	UG	309	GLU	C-N-CA	5.37	127.48	120.28
20	LJ	233	LEU	CA-C-N	5.37	127.48	120.28
20	LJ	233	LEU	C-N-CA	5.37	127.48	120.28
52	Lp	615	LYS	CA-C-N	5.37	128.02	120.28
52	Lp	615	LYS	C-N-CA	5.37	128.02	120.28
57	Lu	393	SER	CA-C-N	5.37	127.33	120.56
57	Lu	393	SER	C-N-CA	5.37	127.33	120.56
26	LP	78	PHE	CA-C-N	5.37	128.01	120.28
26	LP	78	PHE	C-N-CA	5.37	128.01	120.28
45	Li	307	CYS	CA-C-N	5.37	127.33	120.56
45	Li	307	CYS	C-N-CA	5.37	127.33	120.56
20	LJ	262	LEU	CA-C-N	5.37	130.26	123.34
20	LJ	262	LEU	C-N-CA	5.37	130.26	123.34
30	LT	75	SER	CA-C-N	5.37	127.42	120.44
30	LT	75	SER	C-N-CA	5.37	127.42	120.44
32	LV	297	ARG	CA-C-N	5.37	127.42	120.44
32	LV	297	ARG	C-N-CA	5.37	127.42	120.44
46	Lj	50	ALA	CA-C-N	5.37	127.42	120.44
46	Lj	50	ALA	C-N-CA	5.37	127.42	120.44
54	Lr	79	ARG	CA-C-N	5.37	131.01	122.74
54	Lr	79	ARG	C-N-CA	5.37	131.01	122.74
56	Lt	121	HIS	ND1-CG-CD2	-5.37	100.73	106.10
39	Lc	291	VAL	N-CA-CB	5.37	116.83	110.55

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	UG	370	ILE	CA-C-N	5.37	127.42	120.44
69	UG	370	ILE	C-N-CA	5.37	127.42	120.44
9	L8	72	PRO	CA-C-N	5.37	127.74	120.44
9	L8	72	PRO	C-N-CA	5.37	127.74	120.44
9	L8	160	ARG	CA-C-N	5.37	127.41	120.44
9	L8	160	ARG	C-N-CA	5.37	127.41	120.44
13	LC	451	PRO	CA-C-N	5.37	128.49	120.87
13	LC	451	PRO	C-N-CA	5.37	128.49	120.87
38	Lb	890	LEU	CA-C-N	5.37	127.42	120.44
38	Lb	890	LEU	C-N-CA	5.37	127.42	120.44
40	Ld	379	VAL	N-CA-CB	5.37	116.83	110.55
53	Lq	255	VAL	CA-C-N	5.37	129.12	121.02
53	Lq	255	VAL	C-N-CA	5.37	129.12	121.02
59	Lw	14	ILE	CA-C-N	5.37	128.46	120.95
59	Lw	14	ILE	C-N-CA	5.37	128.46	120.95
61	Ly	371	THR	CA-C-N	5.37	130.99	122.94
61	Ly	371	THR	C-N-CA	5.37	130.99	122.94
1	L0	566	LEU	CA-C-N	5.36	127.41	120.44
1	L0	566	LEU	C-N-CA	5.36	127.41	120.44
8	L7	73	GLU	CA-C-N	5.36	130.55	122.99
8	L7	73	GLU	C-N-CA	5.36	130.55	122.99
38	Lb	684	VAL	CA-C-N	5.36	127.41	120.44
38	Lb	684	VAL	C-N-CA	5.36	127.41	120.44
53	Lq	172	ALA	CA-C-N	5.36	127.41	120.44
53	Lq	172	ALA	C-N-CA	5.36	127.41	120.44
58	Lv	68	VAL	CA-C-N	5.36	130.90	123.07
58	Lv	68	VAL	C-N-CA	5.36	130.90	123.07
59	Lw	42	ARG	CD-NE-CZ	5.36	131.91	124.40
59	Lw	88	LYS	N-CA-CB	5.36	117.93	109.83
60	Lx	339	ARG	CA-C-N	5.36	127.41	120.44
60	Lx	339	ARG	C-N-CA	5.36	127.41	120.44
64	UB	367	PRO	CA-C-N	5.36	127.41	120.44
64	UB	367	PRO	C-N-CA	5.36	127.41	120.44
1	L0	353	GLN	CA-C-N	5.36	129.75	122.19
1	L0	353	GLN	C-N-CA	5.36	129.75	122.19
10	L9	6	TYR	CA-C-N	5.36	127.41	120.44
10	L9	6	TYR	C-N-CA	5.36	127.41	120.44
33	LW	296	ASP	CA-C-N	5.36	128.93	120.89
33	LW	296	ASP	C-N-CA	5.36	128.93	120.89
36	LZ	26	PHE	CA-C-N	5.36	127.90	120.29
36	LZ	26	PHE	C-N-CA	5.36	127.90	120.29
59	Lw	83	LYS	CA-C-N	5.36	128.24	120.79

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
59	Lw	83	LYS	C-N-CA	5.36	128.24	120.79
1	L0	275	PHE	CA-C-N	5.36	127.92	120.63
1	L0	275	PHE	C-N-CA	5.36	127.92	120.63
1	L0	281	LEU	CA-C-N	5.36	130.64	122.65
1	L0	281	LEU	C-N-CA	5.36	130.64	122.65
9	L8	148	ALA	CA-C-N	5.36	127.31	120.56
9	L8	148	ALA	C-N-CA	5.36	127.31	120.56
23	LM	34	MET	CA-C-N	5.36	127.73	120.44
23	LM	34	MET	C-N-CA	5.36	127.73	120.44
37	La	72	ILE	CA-C-N	5.36	130.09	123.12
37	La	72	ILE	C-N-CA	5.36	130.09	123.12
44	Lh	739	GLU	CA-C-N	5.36	127.46	120.28
44	Lh	739	GLU	C-N-CA	5.36	127.46	120.28
51	Lo	300	PHE	CA-C-N	5.36	127.46	120.28
51	Lo	300	PHE	C-N-CA	5.36	127.46	120.28
52	Lp	688	ARG	CA-C-N	5.36	127.41	120.44
52	Lp	688	ARG	C-N-CA	5.36	127.41	120.44
13	LC	131	THR	CA-C-N	5.36	127.31	120.56
13	LC	131	THR	C-N-CA	5.36	127.31	120.56
40	Ld	591	ILE	CA-C-N	5.36	127.41	120.44
40	Ld	591	ILE	C-N-CA	5.36	127.41	120.44
44	Lh	486	ILE	CA-C-N	5.36	127.41	120.44
44	Lh	486	ILE	C-N-CA	5.36	127.41	120.44
46	Lj	84	VAL	CA-C-N	5.36	127.31	120.56
46	Lj	84	VAL	C-N-CA	5.36	127.31	120.56
11	LA	106	SER	CA-C-N	5.36	130.16	123.14
11	LA	106	SER	C-N-CA	5.36	130.16	123.14
20	LJ	180	CYS	CA-C-N	5.36	127.31	120.56
20	LJ	180	CYS	C-N-CA	5.36	127.31	120.56
21	LK	258	ILE	CA-C-N	5.36	127.41	120.44
21	LK	258	ILE	C-N-CA	5.36	127.41	120.44
25	LO	54	GLN	CA-C-N	5.36	127.40	120.44
25	LO	54	GLN	C-N-CA	5.36	127.40	120.44
32	LV	406	ALA	CA-C-N	5.36	127.41	120.44
32	LV	406	ALA	C-N-CA	5.36	127.41	120.44
38	Lb	480	GLY	CA-C-N	5.36	127.46	120.28
38	Lb	480	GLY	C-N-CA	5.36	127.46	120.28
38	Lb	663	PRO	CA-C-N	5.36	127.41	120.44
38	Lb	663	PRO	C-N-CA	5.36	127.41	120.44
39	Lc	320	ALA	CA-C-N	5.36	127.73	120.44
39	Lc	320	ALA	C-N-CA	5.36	127.73	120.44
39	Lc	607	ASP	CA-C-N	5.36	127.41	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	607	ASP	C-N-CA	5.36	127.41	120.44
52	Lp	713	LYS	CB-CG-CD	5.36	123.62	111.30
55	Ls	371	ARG	CA-C-N	5.36	129.74	122.19
55	Ls	371	ARG	C-N-CA	5.36	129.74	122.19
3	L2	171	ARG	CA-C-N	5.36	127.31	120.56
3	L2	171	ARG	C-N-CA	5.36	127.31	120.56
11	LA	84	GLN	CA-C-N	5.36	127.80	120.46
11	LA	84	GLN	C-N-CA	5.36	127.80	120.46
14	LD	323	SER	CA-C-N	5.36	127.72	120.44
14	LD	323	SER	C-N-CA	5.36	127.72	120.44
21	LK	66	LYS	CA-C-N	5.36	129.35	120.94
21	LK	66	LYS	C-N-CA	5.36	129.35	120.94
49	Lm	340	ARG	CA-C-N	5.36	129.75	122.90
49	Lm	340	ARG	C-N-CA	5.36	129.75	122.90
52	Lp	550	CYS	N-CA-CB	5.36	117.88	109.69
67	UE	141	ASP	CA-C-N	5.36	127.40	120.44
67	UE	141	ASP	C-N-CA	5.36	127.40	120.44
11	LA	87	ARG	CA-C-N	5.35	127.40	120.44
11	LA	87	ARG	C-N-CA	5.35	127.40	120.44
45	Li	638	LEU	CA-C-N	5.35	128.47	120.87
45	Li	638	LEU	C-N-CA	5.35	128.47	120.87
46	Lj	61	VAL	CA-C-N	5.35	127.40	120.44
46	Lj	61	VAL	C-N-CA	5.35	127.40	120.44
52	Lp	535	GLU	CA-C-N	5.35	130.72	122.42
52	Lp	535	GLU	C-N-CA	5.35	130.72	122.42
92	lK	34	G	P-O3'-C3'	5.35	128.23	120.20
15	LE	374	GLY	CA-C-N	5.35	127.40	120.44
15	LE	374	GLY	C-N-CA	5.35	127.40	120.44
20	LJ	21	ILE	N-CA-CB	5.35	116.81	110.55
23	LM	36	PHE	N-CA-CB	5.35	117.77	110.01
44	Lh	484	LEU	CA-C-N	5.35	127.40	120.44
44	Lh	484	LEU	C-N-CA	5.35	127.40	120.44
45	Li	696	LEU	CA-C-N	5.35	131.06	123.14
45	Li	696	LEU	C-N-CA	5.35	131.06	123.14
49	Lm	296	VAL	CA-C-N	5.35	128.31	120.71
49	Lm	296	VAL	C-N-CA	5.35	128.31	120.71
14	LD	365	TRP	N-CA-CB	5.35	117.77	110.01
22	LL	927	TYR	CA-C-N	5.35	130.22	123.10
22	LL	927	TYR	C-N-CA	5.35	130.22	123.10
26	LP	183	LEU	CA-C-N	5.35	128.44	120.95
26	LP	183	LEU	C-N-CA	5.35	128.44	120.95
35	LY	429	TYR	CA-C-N	5.35	129.29	121.80

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
35	LY	429	TYR	C-N-CA	5.35	129.29	121.80
45	Li	666	TYR	N-CA-CB	5.35	117.77	110.01
51	Lo	340	TYR	N-CA-CB	5.35	117.82	109.85
11	LA	179	TYR	CA-C-N	5.35	127.89	120.29
11	LA	179	TYR	C-N-CA	5.35	127.89	120.29
20	LJ	211	LEU	CA-C-N	5.35	127.89	120.29
20	LJ	211	LEU	C-N-CA	5.35	127.89	120.29
22	LL	689	ASP	CA-CB-CG	5.35	117.95	112.60
23	LM	124	GLY	CA-C-N	5.35	127.30	120.56
23	LM	124	GLY	C-N-CA	5.35	127.30	120.56
27	LQ	369	LYS	CA-C-N	5.35	127.45	120.28
27	LQ	369	LYS	C-N-CA	5.35	127.45	120.28
35	LY	375	LYS	CA-C-N	5.35	127.89	120.29
35	LY	375	LYS	C-N-CA	5.35	127.89	120.29
41	Le	427	ARG	CA-CB-CG	5.35	124.80	114.10
43	Lg	233	ILE	CA-C-N	5.35	130.20	122.44
43	Lg	233	ILE	C-N-CA	5.35	130.20	122.44
44	Lh	386	GLU	CA-C-N	5.35	127.89	120.29
44	Lh	386	GLU	C-N-CA	5.35	127.89	120.29
45	Li	117	LEU	CA-C-N	5.35	128.14	121.83
45	Li	117	LEU	C-N-CA	5.35	128.14	121.83
47	Lk	547	GLN	N-CA-CB	5.35	117.77	110.01
49	Lm	421	ALA	CA-C-N	5.35	127.89	120.29
49	Lm	421	ALA	C-N-CA	5.35	127.89	120.29
69	UG	364	MET	CA-C-N	5.35	127.39	120.44
69	UG	364	MET	C-N-CA	5.35	127.39	120.44
3	L2	49	VAL	CA-C-N	5.35	131.06	122.83
3	L2	49	VAL	C-N-CA	5.35	131.06	122.83
38	Lb	634	GLU	CA-C-N	5.35	127.30	120.56
38	Lb	634	GLU	C-N-CA	5.35	127.30	120.56
39	Lc	334	PHE	CA-C-N	5.35	130.54	123.05
39	Lc	334	PHE	C-N-CA	5.35	130.54	123.05
40	Ld	323	MET	CA-C-N	5.35	127.30	120.56
40	Ld	323	MET	C-N-CA	5.35	127.30	120.56
46	Lj	42	HIS	CA-C-N	5.35	127.71	120.38
46	Lj	42	HIS	C-N-CA	5.35	127.71	120.38
49	Lm	402	LYS	CA-C-N	5.35	130.54	123.00
49	Lm	402	LYS	C-N-CA	5.35	130.54	123.00
62	Lz	231	SER	N-CA-CB	5.35	117.91	109.83
1	L0	386	VAL	N-CA-CB	5.35	116.94	110.95
1	L0	420	LEU	N-CA-CB	5.35	117.76	110.01
14	LD	477	LEU	CA-C-N	5.35	130.41	122.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	LD	477	LEU	C-N-CA	5.35	130.41	122.71
32	LV	1077	TRP	CA-C-N	5.35	127.39	120.44
32	LV	1077	TRP	C-N-CA	5.35	127.39	120.44
38	Lb	313	LEU	CA-C-N	5.35	130.88	123.07
38	Lb	313	LEU	C-N-CA	5.35	130.88	123.07
40	Ld	355	PHE	CA-C-N	5.35	127.39	120.44
40	Ld	355	PHE	C-N-CA	5.35	127.39	120.44
46	Lj	62	GLU	CA-C-N	5.35	127.44	120.28
46	Lj	62	GLU	C-N-CA	5.35	127.44	120.28
16	LF	172	GLN	CA-C-N	5.34	128.80	120.68
16	LF	172	GLN	C-N-CA	5.34	128.80	120.68
19	LI	25	ALA	CA-C-N	5.34	127.39	120.44
19	LI	25	ALA	C-N-CA	5.34	127.39	120.44
21	LK	118	TYR	CA-C-N	5.34	127.30	120.56
21	LK	118	TYR	C-N-CA	5.34	127.30	120.56
24	LN	270	LYS	CA-C-N	5.34	127.29	120.56
24	LN	270	LYS	C-N-CA	5.34	127.29	120.56
33	LW	467	HIS	CA-C-N	5.34	129.72	120.58
33	LW	467	HIS	C-N-CA	5.34	129.72	120.58
39	Lc	505	GLU	CA-C-N	5.34	128.43	120.31
39	Lc	505	GLU	C-N-CA	5.34	128.43	120.31
44	Lh	478	ARG	CA-CB-CG	5.34	124.79	114.10
43	Lg	84	ALA	CA-C-N	5.34	127.39	120.44
43	Lg	84	ALA	C-N-CA	5.34	127.39	120.44
47	Lk	407	SER	CA-C-N	5.34	127.39	120.44
47	Lk	407	SER	C-N-CA	5.34	127.39	120.44
64	UB	375	SER	N-CA-CB	5.34	117.82	109.97
1	L0	304	CYS	CA-C-N	5.34	127.40	120.88
1	L0	304	CYS	C-N-CA	5.34	127.40	120.88
5	L4	279	LEU	CA-C-N	5.34	127.29	120.56
5	L4	279	LEU	C-N-CA	5.34	127.29	120.56
18	LH	191	HIS	CA-C-N	5.34	129.87	122.77
18	LH	191	HIS	C-N-CA	5.34	129.87	122.77
26	LP	133	ARG	CA-C-N	5.34	128.89	121.09
26	LP	133	ARG	C-N-CA	5.34	128.89	121.09
52	Lp	511	GLU	CA-C-N	5.34	127.38	120.44
52	Lp	511	GLU	C-N-CA	5.34	127.38	120.44
3	L2	189	GLN	CA-C-N	5.34	127.77	120.46
3	L2	189	GLN	C-N-CA	5.34	127.77	120.46
13	LC	139	ARG	CA-C-N	5.34	127.87	120.29
13	LC	139	ARG	C-N-CA	5.34	127.87	120.29
17	LG	240	ASN	CA-C-N	5.34	130.41	122.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
17	LG	240	ASN	C-N-CA	5.34	130.41	122.99
23	LM	121	SER	CA-C-N	5.34	127.44	120.28
23	LM	121	SER	C-N-CA	5.34	127.44	120.28
26	LP	151	LYS	CA-C-N	5.34	131.24	123.12
26	LP	151	LYS	C-N-CA	5.34	131.24	123.12
38	Lb	493	ALA	CA-C-N	5.34	127.38	120.44
38	Lb	493	ALA	C-N-CA	5.34	127.38	120.44
48	Ll	62	PHE	CA-C-N	5.34	130.52	122.99
48	Ll	62	PHE	C-N-CA	5.34	130.52	122.99
56	Lt	243	GLU	CA-C-N	5.34	127.38	120.44
56	Lt	243	GLU	C-N-CA	5.34	127.38	120.44
57	Lu	297	SER	CA-C-N	5.34	129.64	120.72
57	Lu	297	SER	C-N-CA	5.34	129.64	120.72
3	L2	48	LEU	CA-C-N	5.34	127.29	120.56
3	L2	48	LEU	C-N-CA	5.34	127.29	120.56
48	Ll	102	LEU	CA-C-N	5.34	130.60	122.65
48	Ll	102	LEU	C-N-CA	5.34	130.60	122.65
62	Lz	145	PRO	CA-C-N	5.34	127.87	120.29
62	Lz	145	PRO	C-N-CA	5.34	127.87	120.29
1	L0	597	GLN	CA-C-N	5.34	127.38	120.44
1	L0	597	GLN	C-N-CA	5.34	127.38	120.44
20	LJ	97	PRO	CA-C-N	5.34	127.70	120.44
20	LJ	97	PRO	C-N-CA	5.34	127.70	120.44
24	LN	327	LEU	CA-C-N	5.34	129.52	122.42
24	LN	327	LEU	C-N-CA	5.34	129.52	122.42
26	LP	100	GLY	CA-C-N	5.34	127.38	120.44
26	LP	100	GLY	C-N-CA	5.34	127.38	120.44
39	Lc	525	ASN	CA-C-N	5.34	127.38	120.44
39	Lc	525	ASN	C-N-CA	5.34	127.38	120.44
41	Le	311	LEU	N-CA-CB	5.34	117.75	110.01
53	Lq	131	LEU	N-CA-CB	5.34	117.80	109.85
14	LD	529	ARG	CA-C-N	5.33	130.60	122.65
14	LD	529	ARG	C-N-CA	5.33	130.60	122.65
21	LK	218	ARG	CD-NE-CZ	5.33	131.87	124.40
43	Lg	97	ARG	CA-C-N	5.33	127.38	120.44
43	Lg	97	ARG	C-N-CA	5.33	127.38	120.44
3	L2	188	ARG	CA-C-N	5.33	127.37	120.44
3	L2	188	ARG	C-N-CA	5.33	127.37	120.44
4	L3	729	MET	CA-C-N	5.33	127.43	120.28
4	L3	729	MET	C-N-CA	5.33	127.43	120.28
28	LR	29	GLY	CA-C-N	5.33	130.39	122.71
28	LR	29	GLY	C-N-CA	5.33	130.39	122.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	600	LEU	CA-C-N	5.33	127.37	120.44
38	Lb	600	LEU	C-N-CA	5.33	127.37	120.44
39	Lc	327	LEU	CA-C-N	5.33	127.37	120.44
39	Lc	327	LEU	C-N-CA	5.33	127.37	120.44
39	Lc	580	ILE	CA-C-N	5.33	127.37	120.44
39	Lc	580	ILE	C-N-CA	5.33	127.37	120.44
39	Lc	602	HIS	CA-C-N	5.33	130.66	122.93
39	Lc	602	HIS	C-N-CA	5.33	130.66	122.93
48	Ll	29	ARG	CA-C-N	5.33	127.37	120.44
48	Ll	29	ARG	C-N-CA	5.33	127.37	120.44
57	Lu	275	LEU	CA-C-N	5.33	127.43	120.28
57	Lu	275	LEU	C-N-CA	5.33	127.43	120.28
61	Ly	454	GLN	CA-C-N	5.33	127.28	120.56
61	Ly	454	GLN	C-N-CA	5.33	127.28	120.56
63	UA	236	PHE	N-CA-CB	5.33	117.75	110.01
65	UC	295	HIS	N-CA-CB	5.33	117.88	110.04
1	L0	347	HIS	N-CA-CB	5.33	117.85	110.17
14	LD	543	ARG	CA-C-N	5.33	130.63	122.95
14	LD	543	ARG	C-N-CA	5.33	130.63	122.95
20	LJ	179	ASN	CA-C-N	5.33	127.37	120.44
20	LJ	179	ASN	C-N-CA	5.33	127.37	120.44
20	LJ	209	ALA	CA-C-N	5.33	127.86	120.29
20	LJ	209	ALA	C-N-CA	5.33	127.86	120.29
25	LO	136	ARG	CA-C-N	5.33	130.16	122.16
25	LO	136	ARG	C-N-CA	5.33	130.16	122.16
33	LW	480	PHE	N-CA-CB	5.33	117.92	109.71
34	LX	135	LEU	CA-C-N	5.33	129.04	121.42
34	LX	135	LEU	C-N-CA	5.33	129.04	121.42
40	Ld	595	HIS	CA-C-N	5.33	127.37	120.44
40	Ld	595	HIS	C-N-CA	5.33	127.37	120.44
45	Li	667	TYR	CA-C-N	5.33	129.98	121.34
45	Li	667	TYR	C-N-CA	5.33	129.98	121.34
48	Ll	30	PHE	CA-C-N	5.33	127.42	120.28
48	Ll	30	PHE	C-N-CA	5.33	127.42	120.28
52	Lp	413	GLU	CA-C-N	5.33	127.42	120.28
52	Lp	413	GLU	C-N-CA	5.33	127.42	120.28
52	Lp	605	HIS	ND1-CG-CD2	-5.33	100.77	106.10
1	L0	332	PHE	N-CA-CB	5.33	117.74	110.01
21	LK	251	HIS	ND1-CG-CD2	-5.33	100.77	106.10
23	LM	109	ARG	CA-C-N	5.33	127.37	120.44
23	LM	109	ARG	C-N-CA	5.33	127.37	120.44
38	Lb	753	ARG	N-CA-CB	5.33	117.74	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
42	Lf	193	GLU	N-CA-CB	5.33	117.93	109.51
52	Lp	659	GLU	N-CA-CB	5.33	117.74	110.01
14	LD	349	VAL	CA-C-N	5.33	131.18	122.81
14	LD	349	VAL	C-N-CA	5.33	131.18	122.81
18	LH	257	TYR	CA-C-N	5.33	127.37	120.44
18	LH	257	TYR	C-N-CA	5.33	127.37	120.44
25	LO	266	GLY	CA-C-N	5.33	130.93	122.94
25	LO	266	GLY	C-N-CA	5.33	130.93	122.94
26	LP	138	ILE	CA-C-N	5.33	128.41	120.31
26	LP	138	ILE	C-N-CA	5.33	128.41	120.31
36	LZ	120	GLN	CA-C-N	5.33	129.02	121.61
36	LZ	120	GLN	C-N-CA	5.33	129.02	121.61
46	Lj	25	SER	N-CA-CB	5.33	117.88	109.83
52	Lp	536	LEU	CA-C-N	5.33	130.43	122.86
52	Lp	536	LEU	C-N-CA	5.33	130.43	122.86
53	Lq	270	GLN	CB-CG-CD	5.33	121.66	112.60
56	Lt	264	LYS	CA-C-N	5.33	127.37	120.44
56	Lt	264	LYS	C-N-CA	5.33	127.37	120.44
68	UF	54	SER	N-CA-CB	5.33	117.84	110.17
69	UG	273	GLN	CA-C-N	5.33	130.93	122.62
69	UG	273	GLN	C-N-CA	5.33	130.93	122.62
69	UG	380	TRP	N-CA-CB	5.33	117.74	110.01
13	LC	173	ILE	CA-C-N	5.33	129.97	122.09
13	LC	173	ILE	C-N-CA	5.33	129.97	122.09
47	Lk	504	VAL	N-CA-CB	5.33	116.34	110.53
4	L3	432	GLN	CA-C-N	5.33	127.36	120.44
4	L3	432	GLN	C-N-CA	5.33	127.36	120.44
9	L8	28	HIS	CA-C-N	5.33	127.36	120.44
9	L8	28	HIS	C-N-CA	5.33	127.36	120.44
13	LC	295	GLY	CA-C-N	5.33	127.42	120.28
13	LC	295	GLY	C-N-CA	5.33	127.42	120.28
13	LC	574	ALA	CA-C-N	5.33	127.36	120.44
13	LC	574	ALA	C-N-CA	5.33	127.36	120.44
16	LF	196	VAL	CA-C-N	5.33	130.28	122.77
16	LF	196	VAL	C-N-CA	5.33	130.28	122.77
32	LV	784	LEU	CA-C-N	5.33	127.36	120.44
32	LV	784	LEU	C-N-CA	5.33	127.36	120.44
36	LZ	39	ALA	CA-C-N	5.33	128.77	120.68
36	LZ	39	ALA	C-N-CA	5.33	128.77	120.68
44	Lh	335	GLU	CA-C-N	5.33	127.27	120.56
44	Lh	335	GLU	C-N-CA	5.33	127.27	120.56
38	Lb	657	ARG	CA-C-N	5.32	127.36	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	657	ARG	C-N-CA	5.32	127.36	120.44
44	Lh	569	ARG	CA-C-N	5.32	129.03	121.42
44	Lh	569	ARG	C-N-CA	5.32	129.03	121.42
47	Lk	449	ALA	CA-C-N	5.32	129.50	122.42
47	Lk	449	ALA	C-N-CA	5.32	129.50	122.42
52	Lp	538	ARG	CA-C-N	5.32	127.36	120.44
52	Lp	538	ARG	C-N-CA	5.32	127.36	120.44
53	Lq	478	ARG	CA-CB-CG	5.32	124.75	114.10
58	Lv	28	LYS	CA-C-N	5.32	130.74	122.49
58	Lv	28	LYS	C-N-CA	5.32	130.74	122.49
61	Ly	289	HIS	ND1-CG-CD2	-5.32	100.78	106.10
20	LJ	140	VAL	CA-C-N	5.32	127.41	120.28
20	LJ	140	VAL	C-N-CA	5.32	127.41	120.28
32	LV	398	ARG	CA-C-N	5.32	127.36	120.44
32	LV	398	ARG	C-N-CA	5.32	127.36	120.44
32	LV	655	ALA	CA-C-N	5.32	127.36	120.44
32	LV	655	ALA	C-N-CA	5.32	127.36	120.44
32	LV	752	ALA	CA-C-N	5.32	127.27	120.56
32	LV	752	ALA	C-N-CA	5.32	127.27	120.56
38	Lb	650	ALA	CA-C-N	5.32	127.41	120.28
38	Lb	650	ALA	C-N-CA	5.32	127.41	120.28
39	Lc	526	ARG	CA-C-N	5.32	127.36	120.44
39	Lc	526	ARG	C-N-CA	5.32	127.36	120.44
40	Ld	533	GLU	CA-C-N	5.32	127.94	120.28
40	Ld	533	GLU	C-N-CA	5.32	127.94	120.28
51	Lo	237	GLU	CA-C-N	5.32	127.41	120.28
51	Lo	237	GLU	C-N-CA	5.32	127.41	120.28
68	UF	6	GLY	CA-C-N	5.32	129.97	122.09
68	UF	6	GLY	C-N-CA	5.32	129.97	122.09
13	LC	355	MET	CA-C-N	5.32	128.40	120.31
13	LC	355	MET	C-N-CA	5.32	128.40	120.31
32	LV	619	GLN	CA-C-N	5.32	127.26	120.56
32	LV	619	GLN	C-N-CA	5.32	127.26	120.56
35	LY	358	GLY	CA-C-N	5.32	125.39	120.34
35	LY	358	GLY	C-N-CA	5.32	125.39	120.34
38	Lb	839	SER	CA-C-N	5.32	127.36	120.44
38	Lb	839	SER	C-N-CA	5.32	127.36	120.44
40	Ld	363	LEU	CA-C-N	5.32	127.37	120.56
40	Ld	363	LEU	C-N-CA	5.32	127.37	120.56
61	Ly	323	SER	CA-C-N	5.32	128.32	120.82
61	Ly	323	SER	C-N-CA	5.32	128.32	120.82
69	UG	364	MET	CA-CB-CG	5.32	124.74	114.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	LC	118	GLY	CA-C-N	5.32	127.36	120.44
13	LC	118	GLY	C-N-CA	5.32	127.36	120.44
34	LX	161	PRO	CA-C-N	5.32	127.35	120.44
34	LX	161	PRO	C-N-CA	5.32	127.35	120.44
51	Lo	221	LYS	CA-C-N	5.32	129.69	122.19
51	Lo	221	LYS	C-N-CA	5.32	129.69	122.19
9	L8	7	VAL	N-CA-CB	5.32	116.77	110.55
24	LN	311	SER	N-CA-CB	5.32	117.86	110.04
29	LS	62	LEU	CA-C-N	5.32	131.08	122.68
29	LS	62	LEU	C-N-CA	5.32	131.08	122.68
36	LZ	124	MET	CA-C-N	5.32	130.93	122.74
36	LZ	124	MET	C-N-CA	5.32	130.93	122.74
38	Lb	407	VAL	CA-C-N	5.32	127.35	120.44
38	Lb	407	VAL	C-N-CA	5.32	127.35	120.44
38	Lb	416	GLY	CA-C-N	5.32	127.84	120.29
38	Lb	416	GLY	C-N-CA	5.32	127.84	120.29
48	Ll	82	PRO	CA-C-N	5.32	125.88	119.98
48	Ll	82	PRO	C-N-CA	5.32	125.88	119.98
51	Lo	82	ARG	CA-C-N	5.32	127.78	120.39
51	Lo	82	ARG	C-N-CA	5.32	127.78	120.39
61	Ly	635	ILE	N-CA-CB	5.32	116.91	110.95
1	L0	347	HIS	ND1-CG-CD2	-5.32	100.78	106.10
2	L1	427	HIS	ND1-CG-CD2	-5.32	100.78	106.10
5	L4	395	GLN	CA-C-N	5.32	127.35	120.44
5	L4	395	GLN	C-N-CA	5.32	127.35	120.44
38	Lb	311	LEU	N-CA-CB	5.32	117.86	109.83
39	Lc	589	HIS	ND1-CG-CD2	-5.32	100.78	106.10
53	Lq	222	SER	CA-C-N	5.32	127.84	120.29
53	Lq	222	SER	C-N-CA	5.32	127.84	120.29
60	Lx	311	LYS	CA-C-N	5.32	130.05	122.08
60	Lx	311	LYS	C-N-CA	5.32	130.05	122.08
61	Ly	679	TRP	N-CA-CB	5.32	117.86	109.83
8	L7	68	VAL	CA-C-N	5.31	130.63	122.93
8	L7	68	VAL	C-N-CA	5.31	130.63	122.93
20	LJ	323	ASP	CA-C-N	5.31	130.37	122.99
20	LJ	323	ASP	C-N-CA	5.31	130.37	122.99
22	LL	195	ILE	CA-C-N	5.31	127.03	120.92
22	LL	195	ILE	C-N-CA	5.31	127.03	120.92
40	Ld	346	LEU	CA-C-N	5.31	127.34	120.44
40	Ld	346	LEU	C-N-CA	5.31	127.34	120.44
43	Lg	44	ASN	CA-C-N	5.31	127.93	120.28
43	Lg	44	ASN	C-N-CA	5.31	127.93	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	473	ASN	CA-C-N	5.31	127.34	120.44
53	Lq	473	ASN	C-N-CA	5.31	127.34	120.44
55	Ls	404	PHE	N-CA-CB	5.31	117.78	109.97
59	Lw	163	ARG	N-CA-CB	5.31	117.71	110.01
61	Ly	572	LEU	CA-C-N	5.31	130.26	122.77
61	Ly	572	LEU	C-N-CA	5.31	130.26	122.77
5	L4	400	LEU	CA-C-N	5.31	127.34	120.44
5	L4	400	LEU	C-N-CA	5.31	127.34	120.44
38	Lb	851	ASP	CA-C-N	5.31	127.66	120.38
38	Lb	851	ASP	C-N-CA	5.31	127.66	120.38
56	Lt	222	PRO	CA-C-N	5.31	128.38	120.31
56	Lt	222	PRO	C-N-CA	5.31	128.38	120.31
9	L8	245	PHE	N-CA-CB	5.31	117.82	110.17
11	LA	21	HIS	ND1-CG-CD2	-5.31	100.79	106.10
14	LD	552	HIS	ND1-CG-CD2	-5.31	100.79	106.10
20	LJ	103	ILE	CA-C-N	5.31	127.34	120.44
20	LJ	103	ILE	C-N-CA	5.31	127.34	120.44
21	LK	116	LYS	CA-C-N	5.31	127.39	120.28
21	LK	116	LYS	C-N-CA	5.31	127.39	120.28
42	Lf	199	GLU	N-CA-CB	5.31	117.71	109.48
44	Lh	492	PHE	CA-C-N	5.31	127.34	120.44
44	Lh	492	PHE	C-N-CA	5.31	127.34	120.44
48	Ll	10	HIS	ND1-CG-CD2	-5.31	100.79	106.10
49	Lm	293	GLY	N-CA-C	5.31	118.87	110.96
53	Lq	164	SER	CA-C-N	5.31	130.26	122.77
53	Lq	164	SER	C-N-CA	5.31	130.26	122.77
57	Lu	259	VAL	CA-C-N	5.31	127.34	120.44
57	Lu	259	VAL	C-N-CA	5.31	127.34	120.44
58	Lv	35	LEU	CA-C-N	5.31	127.25	120.56
58	Lv	35	LEU	C-N-CA	5.31	127.25	120.56
5	L4	193	LEU	CA-C-N	5.31	127.34	120.44
5	L4	193	LEU	C-N-CA	5.31	127.34	120.44
35	LY	402	HIS	ND1-CG-CD2	-5.31	100.79	106.10
38	Lb	726	LEU	CA-C-N	5.31	127.34	120.44
38	Lb	726	LEU	C-N-CA	5.31	127.34	120.44
39	Lc	462	VAL	CA-C-N	5.31	127.73	120.46
39	Lc	462	VAL	C-N-CA	5.31	127.73	120.46
44	Lh	512	HIS	ND1-CG-CD2	-5.31	100.79	106.10
45	Li	359	HIS	N-CA-CB	5.31	117.70	110.01
48	Ll	87	GLN	CA-C-N	5.31	127.25	120.56
48	Ll	87	GLN	C-N-CA	5.31	127.25	120.56
51	Lo	238	HIS	ND1-CG-CD2	-5.31	100.79	106.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	666	ARG	CA-C-N	5.31	130.82	122.49
53	Lq	666	ARG	C-N-CA	5.31	130.82	122.49
103	lY	9	U	C2'-C3'-O3'	5.31	117.46	109.50
4	L3	662	HIS	ND1-CG-CD2	-5.31	100.79	106.10
35	LY	353	VAL	CA-C-N	5.31	130.56	122.65
35	LY	353	VAL	C-N-CA	5.31	130.56	122.65
51	Lo	93	HIS	ND1-CG-CD2	-5.31	100.79	106.10
13	LC	242	GLY	CA-C-N	5.30	128.88	121.24
13	LC	242	GLY	C-N-CA	5.30	128.88	121.24
22	LL	534	ASP	CA-C-N	5.30	128.37	120.31
22	LL	534	ASP	C-N-CA	5.30	128.37	120.31
26	LP	187	HIS	ND1-CG-CD2	-5.30	100.80	106.10
35	LY	430	VAL	N-CA-CB	5.30	116.89	110.95
38	Lb	351	TRP	N-CA-CB	5.30	117.70	110.01
38	Lb	391	GLY	CA-C-N	5.30	127.24	120.56
38	Lb	391	GLY	C-N-CA	5.30	127.24	120.56
20	LJ	65	ALA	CA-C-N	5.30	127.33	120.44
20	LJ	65	ALA	C-N-CA	5.30	127.33	120.44
21	LK	93	SER	CA-C-N	5.30	129.41	121.72
21	LK	93	SER	C-N-CA	5.30	129.41	121.72
40	Ld	595	HIS	ND1-CG-CD2	-5.30	100.80	106.10
44	Lh	502	HIS	ND1-CG-CD2	-5.30	100.80	106.10
60	Lx	334	CYS	CA-C-N	5.30	127.39	120.28
60	Lx	334	CYS	C-N-CA	5.30	127.39	120.28
64	UB	334	SER	CA-C-N	5.30	127.39	120.28
64	UB	334	SER	C-N-CA	5.30	127.39	120.28
3	L2	195	LEU	CA-C-N	5.30	127.33	120.44
3	L2	195	LEU	C-N-CA	5.30	127.33	120.44
9	L8	240	TYR	CA-C-N	5.30	129.76	123.19
9	L8	240	TYR	C-N-CA	5.30	129.76	123.19
38	Lb	814	ALA	CA-C-N	5.30	127.38	120.28
38	Lb	814	ALA	C-N-CA	5.30	127.38	120.28
38	Lb	838	LEU	CA-C-N	5.30	127.38	120.28
38	Lb	838	LEU	C-N-CA	5.30	127.38	120.28
47	Lk	540	ARG	CA-CB-CG	5.30	124.70	114.10
49	Lm	257	HIS	ND1-CG-CD2	-5.30	100.80	106.10
51	Lo	265	ARG	N-CA-CB	5.30	117.84	109.83
51	Lo	347	ARG	N-CA-CB	5.30	117.76	109.97
53	Lq	229	ARG	CA-C-N	5.30	127.38	120.28
53	Lq	229	ARG	C-N-CA	5.30	127.38	120.28
53	Lq	529	GLY	CA-C-N	5.30	128.37	120.31
53	Lq	529	GLY	C-N-CA	5.30	128.37	120.31

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	650	HIS	N-CA-CB	5.30	117.84	109.94
1	L0	291	TRP	CA-C-N	5.30	128.37	120.31
1	L0	291	TRP	C-N-CA	5.30	128.37	120.31
1	L0	342	VAL	CA-C-N	5.30	130.89	122.94
1	L0	342	VAL	C-N-CA	5.30	130.89	122.94
4	L3	688	HIS	ND1-CG-CD2	-5.30	100.80	106.10
13	LC	273	SER	CA-C-N	5.30	127.33	120.44
13	LC	273	SER	C-N-CA	5.30	127.33	120.44
15	LE	399	ARG	CA-C-N	5.30	129.93	122.09
15	LE	399	ARG	C-N-CA	5.30	129.93	122.09
48	Ll	117	GLN	CA-C-N	5.30	130.38	122.64
48	Ll	117	GLN	C-N-CA	5.30	130.38	122.64
50	Ln	136	HIS	ND1-CG-CD2	-5.30	100.80	106.10
52	Lp	514	ASP	CA-C-N	5.30	127.81	120.29
52	Lp	514	ASP	C-N-CA	5.30	127.81	120.29
54	Lr	138	ASP	CA-C-N	5.30	130.62	123.46
54	Lr	138	ASP	C-N-CA	5.30	130.62	123.46
56	Lt	103	GLU	CA-C-N	5.30	127.33	120.44
56	Lt	103	GLU	C-N-CA	5.30	127.33	120.44
67	UE	134	LEU	N-CA-CB	5.30	117.69	110.01
21	LK	70	ASP	CA-C-N	5.30	127.23	120.56
21	LK	70	ASP	C-N-CA	5.30	127.23	120.56
31	LU	263	ARG	CA-CB-CG	5.30	124.70	114.10
33	LW	331	LYS	CA-C-N	5.30	129.64	120.58
33	LW	331	LYS	C-N-CA	5.30	129.64	120.58
56	Lt	58	HIS	CA-C-N	5.30	127.33	120.44
56	Lt	58	HIS	C-N-CA	5.30	127.33	120.44
58	Lv	67	GLU	CA-C-N	5.30	130.37	123.06
58	Lv	67	GLU	C-N-CA	5.30	130.37	123.06
64	UB	293	HIS	ND1-CG-CD2	-5.30	100.80	106.10
14	LD	528	LYS	CA-C-N	5.30	130.12	122.44
14	LD	528	LYS	C-N-CA	5.30	130.12	122.44
20	LJ	177	ILE	N-CA-CB	5.30	116.75	110.55
23	LM	129	LEU	CA-C-N	5.30	127.23	120.56
23	LM	129	LEU	C-N-CA	5.30	127.23	120.56
36	LZ	163	LEU	CA-C-N	5.30	127.33	120.44
36	LZ	163	LEU	C-N-CA	5.30	127.33	120.44
37	La	29	HIS	ND1-CG-CD2	-5.30	100.80	106.10
40	Ld	528	GLU	CA-C-N	5.30	127.33	120.44
40	Ld	528	GLU	C-N-CA	5.30	127.33	120.44
42	Lf	292	GLN	CA-C-N	5.30	130.90	122.74
42	Lf	292	GLN	C-N-CA	5.30	130.90	122.74

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	498	THR	CA-C-N	5.30	127.83	120.63
53	Lq	498	THR	C-N-CA	5.30	127.83	120.63
53	Lq	650	HIS	ND1-CG-CD2	-5.30	100.80	106.10
89	lH	1	U	C2'-C3'-O3'	5.30	117.44	109.50
43	Lg	90	GLN	CA-C-N	5.29	129.07	121.50
43	Lg	90	GLN	C-N-CA	5.29	129.07	121.50
51	Lo	188	GLY	CA-C-N	5.29	127.81	120.29
51	Lo	188	GLY	C-N-CA	5.29	127.81	120.29
55	Ls	344	ARG	CA-C-N	5.29	127.32	120.44
55	Ls	344	ARG	C-N-CA	5.29	127.32	120.44
56	Lt	245	ARG	CA-CB-CG	5.29	124.69	114.10
1	L0	334	GLY	CA-C-N	5.29	127.32	120.44
1	L0	334	GLY	C-N-CA	5.29	127.32	120.44
1	L0	552	ILE	N-CA-CB	5.29	116.49	110.72
8	L7	49	SER	CA-C-N	5.29	128.18	120.98
8	L7	49	SER	C-N-CA	5.29	128.18	120.98
9	L8	116	ARG	N-CA-CB	5.29	117.82	109.83
20	LJ	101	GLY	CA-C-N	5.29	127.32	120.44
20	LJ	101	GLY	C-N-CA	5.29	127.32	120.44
25	LO	113	HIS	ND1-CG-CD2	-5.29	100.81	106.10
33	LW	469	HIS	ND1-CG-CD2	-5.29	100.81	106.10
38	Lb	601	SER	CA-C-N	5.29	127.23	120.56
38	Lb	601	SER	C-N-CA	5.29	127.23	120.56
43	Lg	98	LEU	CA-C-N	5.29	127.32	120.44
43	Lg	98	LEU	C-N-CA	5.29	127.32	120.44
52	Lp	706	ARG	CA-C-N	5.29	127.32	120.44
52	Lp	706	ARG	C-N-CA	5.29	127.32	120.44
53	Lq	652	ARG	CA-C-N	5.29	129.63	120.58
53	Lq	652	ARG	C-N-CA	5.29	129.63	120.58
61	Ly	588	ILE	CA-C-N	5.29	131.38	123.23
61	Ly	588	ILE	C-N-CA	5.29	131.38	123.23
68	UF	9	SER	CA-C-N	5.29	127.81	120.29
68	UF	9	SER	C-N-CA	5.29	127.81	120.29
69	UG	264	HIS	ND1-CG-CD2	-5.29	100.81	106.10
69	UG	306	ALA	CA-C-N	5.29	127.32	120.44
69	UG	306	ALA	C-N-CA	5.29	127.32	120.44
69	UG	367	ASP	CA-C-N	5.29	127.32	120.44
69	UG	367	ASP	C-N-CA	5.29	127.32	120.44
32	LV	865	LEU	CA-C-N	5.29	127.32	120.44
32	LV	865	LEU	C-N-CA	5.29	127.32	120.44
35	LY	464	ARG	CA-C-N	5.29	130.88	122.94
35	LY	464	ARG	C-N-CA	5.29	130.88	122.94

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	393	TYR	CA-C-N	5.29	127.32	120.44
38	Lb	393	TYR	C-N-CA	5.29	127.32	120.44
48	Ll	27	GLY	CA-C-N	5.29	127.32	120.44
48	Ll	27	GLY	C-N-CA	5.29	127.32	120.44
24	LN	297	THR	CA-C-N	5.29	127.37	120.28
24	LN	297	THR	C-N-CA	5.29	127.37	120.28
26	LP	152	HIS	ND1-CG-CD2	-5.29	100.81	106.10
26	LP	166	GLN	CA-C-N	5.29	130.10	122.16
26	LP	166	GLN	C-N-CA	5.29	130.10	122.16
35	LY	430	VAL	CA-C-N	5.29	128.82	120.89
35	LY	430	VAL	C-N-CA	5.29	128.82	120.89
58	Lv	35	LEU	N-CA-CB	5.29	117.68	110.01
60	Lx	303	HIS	ND1-CG-CD2	-5.29	100.81	106.10
20	LJ	229	LEU	CA-C-N	5.29	127.31	120.44
20	LJ	229	LEU	C-N-CA	5.29	127.31	120.44
20	LJ	415	ALA	CA-C-N	5.29	127.32	120.44
20	LJ	415	ALA	C-N-CA	5.29	127.32	120.44
22	LL	143	ALA	CA-C-N	5.29	127.31	120.44
22	LL	143	ALA	C-N-CA	5.29	127.31	120.44
35	LY	455	LYS	CA-C-N	5.29	130.87	122.62
35	LY	455	LYS	C-N-CA	5.29	130.87	122.62
39	Lc	208	LEU	CA-C-N	5.29	127.22	120.56
39	Lc	208	LEU	C-N-CA	5.29	127.22	120.56
39	Lc	303	THR	CA-C-N	5.29	127.63	120.44
39	Lc	303	THR	C-N-CA	5.29	127.63	120.44
39	Lc	523	GLN	N-CA-CB	5.29	117.68	110.01
45	Li	357	PHE	CA-C-N	5.29	127.31	120.44
45	Li	357	PHE	C-N-CA	5.29	127.31	120.44
49	Lm	415	ASP	CA-C-N	5.29	127.31	120.44
49	Lm	415	ASP	C-N-CA	5.29	127.31	120.44
52	Lp	665	TYR	CA-C-N	5.29	130.54	122.92
52	Lp	665	TYR	C-N-CA	5.29	130.54	122.92
56	Lt	154	TYR	N-CA-CB	5.29	117.78	109.69
1	L0	462	SER	CA-C-N	5.29	127.31	120.44
1	L0	462	SER	C-N-CA	5.29	127.31	120.44
38	Lb	478	THR	CA-C-N	5.29	127.36	120.28
38	Lb	478	THR	C-N-CA	5.29	127.36	120.28
42	Lf	326	ARG	CA-C-N	5.29	127.31	120.44
42	Lf	326	ARG	C-N-CA	5.29	127.31	120.44
3	L2	76	GLU	CA-C-N	5.29	127.22	120.56
3	L2	76	GLU	C-N-CA	5.29	127.22	120.56
9	L8	152	GLU	CA-C-N	5.29	127.31	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	L8	152	GLU	C-N-CA	5.29	127.31	120.44
12	LB	109	PHE	CA-C-N	5.29	130.87	122.94
12	LB	109	PHE	C-N-CA	5.29	130.87	122.94
32	LV	239	PHE	CA-C-N	5.29	131.15	123.12
32	LV	239	PHE	C-N-CA	5.29	131.15	123.12
32	LV	664	MET	CA-C-N	5.29	127.31	120.44
32	LV	664	MET	C-N-CA	5.29	127.31	120.44
38	Lb	738	VAL	N-CA-CB	5.29	116.38	110.51
39	Lc	255	ARG	CA-C-N	5.29	127.36	120.28
39	Lc	255	ARG	C-N-CA	5.29	127.36	120.28
39	Lc	451	VAL	CA-C-N	5.29	127.36	120.28
39	Lc	451	VAL	C-N-CA	5.29	127.36	120.28
44	Lh	499	VAL	CA-C-N	5.29	131.03	122.68
44	Lh	499	VAL	C-N-CA	5.29	131.03	122.68
44	Lh	513	CYS	CA-C-N	5.29	127.22	120.56
44	Lh	513	CYS	C-N-CA	5.29	127.22	120.56
45	Li	583	ILE	CA-C-N	5.29	129.64	122.19
45	Li	583	ILE	C-N-CA	5.29	129.64	122.19
47	Lk	411	VAL	CA-C-N	5.29	127.31	120.44
47	Lk	411	VAL	C-N-CA	5.29	127.31	120.44
56	Lt	68	THR	CA-C-N	5.29	127.80	120.29
56	Lt	68	THR	C-N-CA	5.29	127.80	120.29
59	Lw	173	LYS	N-CA-CB	5.29	117.67	110.01
2	L1	505	ARG	N-CA-CB	5.28	117.78	109.69
8	L7	47	ARG	CA-C-N	5.28	130.35	123.06
8	L7	47	ARG	C-N-CA	5.28	130.35	123.06
9	L8	5	LYS	CA-C-N	5.28	127.70	120.46
9	L8	5	LYS	C-N-CA	5.28	127.70	120.46
20	LJ	15	LEU	CA-C-N	5.28	127.31	120.44
20	LJ	15	LEU	C-N-CA	5.28	127.31	120.44
25	LO	133	ARG	CA-C-N	5.28	130.44	122.99
25	LO	133	ARG	C-N-CA	5.28	130.44	122.99
25	LO	190	VAL	CA-C-N	5.28	130.96	123.14
25	LO	190	VAL	C-N-CA	5.28	130.96	123.14
26	LP	77	LEU	CA-C-N	5.28	129.87	122.05
26	LP	77	LEU	C-N-CA	5.28	129.87	122.05
29	LS	72	GLY	CA-C-N	5.28	130.14	121.58
29	LS	72	GLY	C-N-CA	5.28	130.14	121.58
33	LW	216	ASP	CA-C-N	5.28	127.62	120.38
33	LW	216	ASP	C-N-CA	5.28	127.62	120.38
33	LW	454	SER	N-CA-CB	5.28	117.78	110.17
38	Lb	865	LYS	CA-C-N	5.28	127.31	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	865	LYS	C-N-CA	5.28	127.31	120.44
39	Lc	454	HIS	ND1-CG-CD2	-5.28	100.82	106.10
39	Lc	602	HIS	ND1-CG-CD2	-5.28	100.82	106.10
46	Lj	12	SER	CA-C-N	5.28	127.31	120.44
46	Lj	12	SER	C-N-CA	5.28	127.31	120.44
47	Lk	514	ILE	CA-C-N	5.28	130.44	122.99
47	Lk	514	ILE	C-N-CA	5.28	130.44	122.99
48	Ll	104	HIS	ND1-CG-CD2	-5.28	100.82	106.10
59	Lw	164	GLU	N-CA-CB	5.28	117.67	110.01
91	lJ	260	C	C2'-C3'-O3'	5.28	121.62	113.70
14	LD	371	GLN	N-CA-CB	5.28	117.67	110.01
14	LD	394	HIS	ND1-CG-CD2	-5.28	100.82	106.10
20	LJ	61	SER	CA-C-N	5.28	127.31	120.44
20	LJ	61	SER	C-N-CA	5.28	127.31	120.44
29	LS	122	LEU	CA-C-N	5.28	127.99	120.49
29	LS	122	LEU	C-N-CA	5.28	127.99	120.49
38	Lb	637	HIS	ND1-CG-CD2	-5.28	100.82	106.10
39	Lc	141	ARG	CA-C-N	5.28	127.36	120.28
39	Lc	141	ARG	C-N-CA	5.28	127.36	120.28
41	Le	624	ARG	N-CA-CB	5.28	117.67	110.01
56	Lt	62	SER	CA-C-N	5.28	127.36	120.28
56	Lt	62	SER	C-N-CA	5.28	127.36	120.28
4	L3	424	ARG	CA-C-N	5.28	127.36	120.28
4	L3	424	ARG	C-N-CA	5.28	127.36	120.28
23	LM	73	SER	N-CA-CB	5.28	117.61	110.38
24	LN	298	HIS	ND1-CG-CD2	-5.28	100.82	106.10
25	LO	212	THR	CA-C-N	5.28	129.10	121.18
25	LO	212	THR	C-N-CA	5.28	129.10	121.18
25	LO	305	HIS	ND1-CG-CD2	-5.28	100.82	106.10
26	LP	85	THR	CA-C-N	5.28	127.31	120.44
26	LP	85	THR	C-N-CA	5.28	127.31	120.44
32	LV	482	LEU	CA-C-N	5.28	127.36	120.28
32	LV	482	LEU	C-N-CA	5.28	127.36	120.28
35	LY	313	GLU	N-CA-CB	5.28	117.66	109.48
40	Ld	352	THR	CA-C-N	5.28	130.36	122.86
40	Ld	352	THR	C-N-CA	5.28	130.36	122.86
46	Lj	98	GLU	CA-C-N	5.28	127.36	120.28
46	Lj	98	GLU	C-N-CA	5.28	127.36	120.28
52	Lp	460	HIS	ND1-CG-CD2	-5.28	100.82	106.10
64	UB	332	VAL	CA-C-N	5.28	130.53	122.24
64	UB	332	VAL	C-N-CA	5.28	130.53	122.24
1	L0	563	GLN	CA-C-N	5.28	127.30	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L0	563	GLN	C-N-CA	5.28	127.30	120.44
5	L4	313	SER	CA-C-N	5.28	127.79	120.29
5	L4	313	SER	C-N-CA	5.28	127.79	120.29
22	LL	296	HIS	ND1-CG-CD2	-5.28	100.82	106.10
32	LV	916	VAL	CA-C-N	5.28	127.21	120.56
32	LV	916	VAL	C-N-CA	5.28	127.21	120.56
39	Lc	527	GLU	CA-C-N	5.28	127.30	120.44
39	Lc	527	GLU	C-N-CA	5.28	127.30	120.44
44	Lh	548	HIS	ND1-CG-CD2	-5.28	100.82	106.10
45	Li	707	PRO	CA-C-N	5.28	127.61	120.38
45	Li	707	PRO	C-N-CA	5.28	127.61	120.38
51	Lo	98	TYR	CA-C-N	5.28	127.74	120.67
51	Lo	98	TYR	C-N-CA	5.28	127.74	120.67
51	Lo	316	LYS	CA-C-N	5.28	128.70	120.68
51	Lo	316	LYS	C-N-CA	5.28	128.70	120.68
55	Ls	513	ARG	CA-C-N	5.28	127.62	120.44
55	Ls	513	ARG	C-N-CA	5.28	127.62	120.44
62	Lz	149	THR	CA-C-N	5.28	127.35	120.28
62	Lz	149	THR	C-N-CA	5.28	127.35	120.28
1	L0	358	ALA	CA-C-N	5.28	130.86	122.94
1	L0	358	ALA	C-N-CA	5.28	130.86	122.94
1	L0	391	HIS	ND1-CG-CD2	-5.28	100.82	106.10
30	LT	73	THR	CA-C-N	5.28	127.30	120.44
30	LT	73	THR	C-N-CA	5.28	127.30	120.44
31	LU	303	GLN	CA-C-N	5.28	127.30	120.44
31	LU	303	GLN	C-N-CA	5.28	127.30	120.44
43	Lg	82	ARG	N-CA-CB	5.28	117.80	109.94
47	Lk	538	GLU	CA-C-N	5.28	127.30	120.44
47	Lk	538	GLU	C-N-CA	5.28	127.30	120.44
51	Lo	340	TYR	CA-C-N	5.28	130.21	122.77
51	Lo	340	TYR	C-N-CA	5.28	130.21	122.77
53	Lq	884	GLU	CA-C-N	5.28	130.40	122.75
53	Lq	884	GLU	C-N-CA	5.28	130.40	122.75
2	L1	508	VAL	CA-C-N	5.28	127.72	120.39
2	L1	508	VAL	C-N-CA	5.28	127.72	120.39
9	L8	145	ARG	CD-NE-CZ	5.28	131.79	124.40
32	LV	587	PHE	CA-C-N	5.28	127.21	120.56
32	LV	587	PHE	C-N-CA	5.28	127.21	120.56
38	Lb	435	PHE	CA-C-N	5.28	127.35	120.28
38	Lb	435	PHE	C-N-CA	5.28	127.35	120.28
46	Lj	10	ARG	CA-C-N	5.28	127.21	120.56
46	Lj	10	ARG	C-N-CA	5.28	127.21	120.56

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Lj	88	ILE	CA-C-N	5.28	127.30	120.44
46	Lj	88	ILE	C-N-CA	5.28	127.30	120.44
53	Lq	125	ARG	N-CA-CB	5.28	117.76	109.69
57	Lu	271	HIS	ND1-CG-CD2	-5.28	100.82	106.10
57	Lu	303	ALA	CA-C-N	5.28	127.35	120.28
57	Lu	303	ALA	C-N-CA	5.28	127.35	120.28
43	Lg	80	GLY	CA-C-N	5.27	127.30	120.44
43	Lg	80	GLY	C-N-CA	5.27	127.30	120.44
53	Lq	264	LEU	CA-C-N	5.27	127.30	120.44
53	Lq	264	LEU	C-N-CA	5.27	127.30	120.44
9	L8	51	PRO	CA-C-N	5.27	127.78	120.29
9	L8	51	PRO	C-N-CA	5.27	127.78	120.29
14	LD	363	LYS	CA-C-N	5.27	127.29	120.44
14	LD	363	LYS	C-N-CA	5.27	127.29	120.44
19	LI	44	HIS	ND1-CG-CD2	-5.27	100.83	106.10
23	LM	122	LEU	CA-C-N	5.27	127.35	120.28
23	LM	122	LEU	C-N-CA	5.27	127.35	120.28
33	LW	396	HIS	ND1-CG-CD2	-5.27	100.83	106.10
43	Lg	54	CYS	N-CA-CB	5.27	117.83	109.82
55	Ls	572	ALA	CA-C-N	5.27	127.29	120.44
55	Ls	572	ALA	C-N-CA	5.27	127.29	120.44
63	UA	251	ARG	CA-C-N	5.27	127.61	120.65
63	UA	251	ARG	C-N-CA	5.27	127.61	120.65
64	UB	336	GLU	CA-C-N	5.27	127.34	120.28
64	UB	336	GLU	C-N-CA	5.27	127.34	120.28
70	UH	244	GLN	CA-C-N	5.27	127.29	120.44
70	UH	244	GLN	C-N-CA	5.27	127.29	120.44
9	L8	93	HIS	ND1-CG-CD2	-5.27	100.83	106.10
11	LA	13	PRO	CA-C-N	5.27	129.84	121.99
11	LA	13	PRO	C-N-CA	5.27	129.84	121.99
40	Ld	534	HIS	ND1-CG-CD2	-5.27	100.83	106.10
45	Li	586	PHE	CA-C-N	5.27	129.89	122.09
45	Li	586	PHE	C-N-CA	5.27	129.89	122.09
4	L3	736	HIS	ND1-CG-CD2	-5.27	100.83	106.10
14	LD	504	ARG	N-CA-CB	5.27	117.65	110.01
21	LK	141	SER	N-CA-CB	5.27	117.89	110.36
25	LO	266	GLY	N-CA-C	5.27	118.45	110.97
37	La	197	HIS	ND1-CG-CD2	-5.27	100.83	106.10
38	Lb	356	HIS	ND1-CG-CD2	-5.27	100.83	106.10
44	Lh	563	TYR	CA-C-N	5.27	127.29	120.44
44	Lh	563	TYR	C-N-CA	5.27	127.29	120.44
45	Li	480	LEU	CA-C-N	5.27	127.29	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Li	480	LEU	C-N-CA	5.27	127.29	120.44
45	Li	529	ARG	CA-C-N	5.27	127.29	120.44
45	Li	529	ARG	C-N-CA	5.27	127.29	120.44
45	Li	689	HIS	ND1-CG-CD2	-5.27	100.83	106.10
53	Lq	246	LEU	CA-C-N	5.27	127.29	120.44
53	Lq	246	LEU	C-N-CA	5.27	127.29	120.44
53	Lq	554	LEU	CA-C-N	5.27	127.29	120.44
53	Lq	554	LEU	C-N-CA	5.27	127.29	120.44
57	Lu	413	ARG	CA-C-N	5.27	127.29	120.44
57	Lu	413	ARG	C-N-CA	5.27	127.29	120.44
61	Ly	502	MET	CA-C-N	5.27	130.94	123.14
61	Ly	502	MET	C-N-CA	5.27	130.94	123.14
3	L2	169	VAL	CA-C-N	5.27	127.34	120.28
3	L2	169	VAL	C-N-CA	5.27	127.34	120.28
5	L4	431	LEU	CA-C-N	5.27	127.34	120.28
5	L4	431	LEU	C-N-CA	5.27	127.34	120.28
13	LC	240	HIS	CA-C-N	5.27	131.50	123.23
13	LC	240	HIS	C-N-CA	5.27	131.50	123.23
28	LR	14	ARG	CA-C-N	5.27	129.17	121.80
28	LR	14	ARG	C-N-CA	5.27	129.17	121.80
35	LY	261	SER	N-CA-CB	5.27	117.65	110.01
45	Li	354	VAL	CA-C-N	5.27	127.29	120.44
45	Li	354	VAL	C-N-CA	5.27	127.29	120.44
51	Lo	146	LEU	CA-C-N	5.27	127.29	120.44
51	Lo	146	LEU	C-N-CA	5.27	127.29	120.44
53	Lq	523	ARG	CA-CB-CG	5.27	124.64	114.10
67	UE	203	MET	CA-CB-CG	5.27	124.64	114.10
20	LJ	191	LEU	N-CA-CB	5.27	117.64	110.01
22	LL	272	THR	CA-C-N	5.27	130.14	121.87
22	LL	272	THR	C-N-CA	5.27	130.14	121.87
34	LX	110	ILE	CA-C-N	5.27	128.95	121.42
34	LX	110	ILE	C-N-CA	5.27	128.95	121.42
46	Lj	96	SER	CA-C-N	5.27	127.29	120.44
46	Lj	96	SER	C-N-CA	5.27	127.29	120.44
76	l4	27	G	C4'-C3'-O3'	5.27	117.30	109.40
11	LA	184	HIS	ND1-CG-CD2	-5.26	100.84	106.10
20	LJ	230	ARG	CA-CB-CG	5.26	124.63	114.10
22	LL	315	HIS	ND1-CG-CD2	-5.26	100.83	106.10
24	LN	263	LEU	CA-C-N	5.26	130.74	122.21
24	LN	263	LEU	C-N-CA	5.26	130.74	122.21
26	LP	167	HIS	ND1-CG-CD2	-5.26	100.84	106.10
43	Lg	91	GLU	CA-C-N	5.26	128.35	120.87

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	Lg	91	GLU	C-N-CA	5.26	128.35	120.87
44	Lh	484	LEU	N-CA-CB	5.26	117.64	110.01
47	Lk	534	HIS	CA-C-N	5.26	129.65	122.54
47	Lk	534	HIS	C-N-CA	5.26	129.65	122.54
55	Ls	517	ARG	N-CA-CB	5.26	117.64	110.01
56	Lt	99	GLU	CA-C-N	5.26	127.28	120.44
56	Lt	99	GLU	C-N-CA	5.26	127.28	120.44
56	Lt	224	ALA	CA-C-N	5.26	129.02	120.60
56	Lt	224	ALA	C-N-CA	5.26	129.02	120.60
61	Ly	352	ILE	CA-C-N	5.26	128.19	120.71
61	Ly	352	ILE	C-N-CA	5.26	128.19	120.71
62	Lz	173	HIS	ND1-CG-CD2	-5.26	100.84	106.10
62	Lz	202	HIS	ND1-CG-CD2	-5.26	100.83	106.10
16	LF	185	HIS	ND1-CG-CD2	-5.26	100.84	106.10
18	LH	252	ASN	CA-C-N	5.26	127.19	120.56
18	LH	252	ASN	C-N-CA	5.26	127.19	120.56
21	LK	162	HIS	ND1-CG-CD2	-5.26	100.84	106.10
25	LO	137	PHE	CA-C-N	5.26	129.17	121.80
25	LO	137	PHE	C-N-CA	5.26	129.17	121.80
39	Lc	215	HIS	ND1-CG-CD2	-5.26	100.84	106.10
45	Li	477	THR	CA-C-N	5.26	127.76	120.29
45	Li	477	THR	C-N-CA	5.26	127.76	120.29
54	Lr	9	GLY	CA-C-N	5.26	127.28	120.44
54	Lr	9	GLY	C-N-CA	5.26	127.28	120.44
55	Ls	390	HIS	ND1-CG-CD2	-5.26	100.84	106.10
5	L4	278	HIS	ND1-CG-CD2	-5.26	100.84	106.10
12	LB	7	VAL	CA-C-N	5.26	127.19	120.56
12	LB	7	VAL	C-N-CA	5.26	127.19	120.56
13	LC	312	THR	CA-C-N	5.26	127.19	120.56
13	LC	312	THR	C-N-CA	5.26	127.19	120.56
20	LJ	155	VAL	CA-C-N	5.26	127.28	120.44
20	LJ	155	VAL	C-N-CA	5.26	127.28	120.44
38	Lb	364	HIS	ND1-CG-CD2	-5.26	100.84	106.10
38	Lb	458	ILE	CA-C-N	5.26	127.28	120.44
38	Lb	458	ILE	C-N-CA	5.26	127.28	120.44
41	Le	435	GLU	N-CA-CB	5.26	117.64	110.01
43	Lg	219	LYS	N-CA-CB	5.26	117.77	109.83
48	Ll	92	HIS	ND1-CG-CD2	-5.26	100.84	106.10
13	LC	172	PRO	CA-C-N	5.26	130.30	122.99
13	LC	172	PRO	C-N-CA	5.26	130.30	122.99
26	LP	128	HIS	ND1-CG-CD2	-5.26	100.84	106.10
28	LR	128	ASP	CA-C-N	5.26	127.76	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	LR	128	ASP	C-N-CA	5.26	127.76	120.29
33	LW	282	CYS	CA-C-N	5.26	130.41	123.00
33	LW	282	CYS	C-N-CA	5.26	130.41	123.00
38	Lb	383	PHE	CA-C-N	5.26	127.76	120.29
38	Lb	383	PHE	C-N-CA	5.26	127.76	120.29
38	Lb	510	GLU	N-CA-CB	5.26	117.70	109.97
38	Lb	578	HIS	ND1-CG-CD2	-5.26	100.84	106.10
38	Lb	703	ASP	CA-C-N	5.26	127.28	120.44
38	Lb	703	ASP	C-N-CA	5.26	127.28	120.44
40	Ld	341	GLY	CA-C-N	5.26	127.19	120.56
40	Ld	341	GLY	C-N-CA	5.26	127.19	120.56
44	Lh	524	LYS	CA-C-N	5.26	128.56	121.20
44	Lh	524	LYS	C-N-CA	5.26	128.56	121.20
45	Li	316	LYS	N-CA-CB	5.26	117.64	110.01
45	Li	663	MET	CA-C-N	5.26	127.28	120.44
45	Li	663	MET	C-N-CA	5.26	127.28	120.44
51	Lo	294	HIS	ND1-CG-CD2	-5.26	100.84	106.10
52	Lp	460	HIS	N-CA-CB	5.26	117.64	110.01
52	Lp	471	LEU	N-CA-CB	5.26	117.85	110.12
57	Lu	390	HIS	ND1-CG-CD2	-5.26	100.84	106.10
2	L1	501	LYS	N-CA-CB	5.26	117.77	109.83
3	L2	173	LEU	N-CA-CB	5.26	117.64	110.01
22	LL	944	PRO	CA-C-N	5.26	127.28	120.44
22	LL	944	PRO	C-N-CA	5.26	127.28	120.44
33	LW	455	LEU	N-CA-CB	5.26	117.70	109.97
36	LZ	104	GLU	CA-C-N	5.26	130.33	122.86
36	LZ	104	GLU	C-N-CA	5.26	130.33	122.86
41	Le	624	ARG	CA-C-N	5.26	127.28	120.44
41	Le	624	ARG	C-N-CA	5.26	127.28	120.44
42	Lf	288	GLY	CA-C-N	5.26	130.84	122.59
42	Lf	288	GLY	C-N-CA	5.26	130.84	122.59
3	L2	37	LEU	CA-C-N	5.26	129.44	121.03
3	L2	37	LEU	C-N-CA	5.26	129.44	121.03
10	L9	460	HIS	ND1-CG-CD2	-5.26	100.84	106.10
13	LC	547	ALA	CA-C-N	5.26	127.28	120.44
13	LC	547	ALA	C-N-CA	5.26	127.28	120.44
26	LP	82	HIS	ND1-CG-CD2	-5.26	100.84	106.10
28	LR	23	HIS	ND1-CG-CD2	-5.26	100.84	106.10
29	LS	8	TYR	CA-C-N	5.26	127.27	120.44
29	LS	8	TYR	C-N-CA	5.26	127.27	120.44
35	LY	382	THR	CA-C-N	5.26	127.18	120.56
35	LY	382	THR	C-N-CA	5.26	127.18	120.56

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	222	ARG	CA-C-N	5.26	127.27	120.44
39	Lc	222	ARG	C-N-CA	5.26	127.27	120.44
40	Ld	461	ALA	CA-C-N	5.26	127.18	120.56
40	Ld	461	ALA	C-N-CA	5.26	127.18	120.56
50	Ln	132	SER	CA-C-N	5.26	130.18	122.98
50	Ln	132	SER	C-N-CA	5.26	130.18	122.98
51	Lo	236	HIS	CA-C-N	5.26	127.27	120.44
51	Lo	236	HIS	C-N-CA	5.26	127.27	120.44
52	Lp	411	GLU	CA-CB-CG	5.26	124.61	114.10
71	UI	390	LYS	CA-C-N	5.26	127.27	120.44
71	UI	390	LYS	C-N-CA	5.26	127.27	120.44
1	L0	383	HIS	ND1-CG-CD2	-5.25	100.84	106.10
23	LM	60	LEU	N-CA-CB	5.25	117.68	109.85
27	LQ	362	PRO	CA-C-N	5.25	130.82	122.62
27	LQ	362	PRO	C-N-CA	5.25	130.82	122.62
31	LU	272	MET	N-CA-CB	5.25	117.63	110.01
32	LV	750	ALA	CA-C-N	5.25	127.27	120.44
32	LV	750	ALA	C-N-CA	5.25	127.27	120.44
33	LW	242	HIS	ND1-CG-CD2	-5.25	100.84	106.10
38	Lb	774	CYS	CA-C-N	5.25	127.27	120.44
38	Lb	774	CYS	C-N-CA	5.25	127.27	120.44
43	Lg	232	PRO	CA-C-N	5.25	130.56	122.68
43	Lg	232	PRO	C-N-CA	5.25	130.56	122.68
45	Li	569	HIS	ND1-CG-CD2	-5.25	100.84	106.10
51	Lo	175	TYR	N-CA-CB	5.25	117.63	110.01
54	Lr	181	SER	N-CA-CB	5.25	117.63	110.01
69	UG	363	GLN	CA-C-N	5.25	127.27	120.44
69	UG	363	GLN	C-N-CA	5.25	127.27	120.44
13	LC	469	GLN	CA-C-N	5.25	127.27	120.44
13	LC	469	GLN	C-N-CA	5.25	127.27	120.44
14	LD	356	TYR	N-CA-CB	5.25	117.99	110.06
29	LS	4	TYR	CA-C-N	5.25	127.18	120.56
29	LS	4	TYR	C-N-CA	5.25	127.18	120.56
33	LW	466	HIS	ND1-CG-CD2	-5.25	100.85	106.10
40	Ld	627	LEU	N-CA-CB	5.25	117.63	110.01
41	Le	470	TYR	CA-C-N	5.25	127.27	120.44
41	Le	470	TYR	C-N-CA	5.25	127.27	120.44
53	Lq	679	ARG	CA-C-N	5.25	127.27	120.44
53	Lq	679	ARG	C-N-CA	5.25	127.27	120.44
60	Lx	340	PHE	N-CA-CB	5.25	117.63	110.01
1	L0	626	HIS	ND1-CG-CD2	-5.25	100.85	106.10
8	L7	66	VAL	CA-C-N	5.25	127.61	120.63

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	L7	66	VAL	C-N-CA	5.25	127.61	120.63
9	L8	212	LYS	N-CA-CB	5.25	117.76	109.83
20	LJ	133	HIS	ND1-CG-CD2	-5.25	100.85	106.10
24	LN	325	HIS	ND1-CG-CD2	-5.25	100.85	106.10
32	LV	588	VAL	CA-C-N	5.25	127.27	120.44
32	LV	588	VAL	C-N-CA	5.25	127.27	120.44
33	LW	389	HIS	ND1-CG-CD2	-5.25	100.85	106.10
35	LY	267	HIS	ND1-CG-CD2	-5.25	100.85	106.10
37	La	160	ARG	CA-C-N	5.25	128.63	120.60
37	La	160	ARG	C-N-CA	5.25	128.63	120.60
38	Lb	584	ARG	CB-CG-CD	5.25	123.38	111.30
45	Li	637	GLY	CA-C-N	5.25	130.18	122.77
45	Li	637	GLY	C-N-CA	5.25	130.18	122.77
49	Lm	298	GLY	CA-C-N	5.25	130.44	122.98
49	Lm	298	GLY	C-N-CA	5.25	130.44	122.98
49	Lm	411	GLU	N-CA-CB	5.25	117.62	109.48
52	Lp	467	ASP	N-CA-CB	5.25	117.62	110.01
53	Lq	234	THR	CA-C-N	5.25	127.32	120.28
53	Lq	234	THR	C-N-CA	5.25	127.32	120.28
55	Ls	340	HIS	ND1-CG-CD2	-5.25	100.85	106.10
57	Lu	274	ASN	N-CA-CB	5.25	117.62	110.01
57	Lu	346	PRO	CA-C-N	5.25	127.27	120.44
57	Lu	346	PRO	C-N-CA	5.25	127.27	120.44
59	Lw	152	LYS	CA-CB-CG	5.25	124.60	114.10
63	UA	248	LYS	CA-C-N	5.25	127.27	120.44
63	UA	248	LYS	C-N-CA	5.25	127.27	120.44
94	lM	197	U	C4'-C3'-O3'	5.25	117.28	109.40
3	L2	128	ARG	CA-C-N	5.25	127.27	120.44
3	L2	128	ARG	C-N-CA	5.25	127.27	120.44
10	L9	421	LEU	CA-C-N	5.25	127.27	120.44
10	L9	421	LEU	C-N-CA	5.25	127.27	120.44
32	LV	593	HIS	ND1-CG-CD2	-5.25	100.85	106.10
46	Lj	35	PHE	N-CA-CB	5.25	117.76	109.83
48	Ll	91	LEU	N-CA-CB	5.25	117.62	110.01
52	Lp	622	GLY	CA-C-N	5.25	127.27	120.44
52	Lp	622	GLY	C-N-CA	5.25	127.27	120.44
57	Lu	494	HIS	ND1-CG-CD2	-5.25	100.85	106.10
1	L0	433	HIS	ND1-CG-CD2	-5.25	100.85	106.10
5	L4	324	ALA	CA-C-N	5.25	127.26	120.44
5	L4	324	ALA	C-N-CA	5.25	127.26	120.44
14	LD	338	HIS	ND1-CG-CD2	-5.25	100.85	106.10
20	LJ	78	LEU	CA-C-N	5.25	127.84	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	LJ	78	LEU	C-N-CA	5.25	127.84	120.28
25	LO	98	PHE	CA-C-N	5.25	129.82	122.05
25	LO	98	PHE	C-N-CA	5.25	129.82	122.05
38	Lb	309	ASN	CA-C-N	5.25	130.01	121.98
38	Lb	309	ASN	C-N-CA	5.25	130.01	121.98
39	Lc	464	GLN	N-CA-CB	5.25	117.62	110.01
41	Le	474	GLU	CA-C-N	5.25	127.26	120.44
41	Le	474	GLU	C-N-CA	5.25	127.26	120.44
45	Li	534	HIS	CA-C-N	5.25	127.26	120.44
45	Li	534	HIS	C-N-CA	5.25	127.26	120.44
48	Ll	36	LEU	CA-C-N	5.25	127.31	120.28
48	Ll	36	LEU	C-N-CA	5.25	127.31	120.28
51	Lo	244	GLY	N-CA-C	5.25	119.49	112.77
52	Lp	504	HIS	ND1-CG-CD2	-5.25	100.85	106.10
61	Ly	590	HIS	ND1-CG-CD2	-5.25	100.85	106.10
73	l1	26	A	O4'-C1'-N9	5.25	116.07	108.20
3	L2	160	ALA	CA-C-N	5.25	127.74	120.29
3	L2	160	ALA	C-N-CA	5.25	127.74	120.29
9	L8	165	ASN	CA-C-N	5.25	127.74	120.29
9	L8	165	ASN	C-N-CA	5.25	127.74	120.29
13	LC	552	GLY	CA-C-N	5.25	129.67	121.85
13	LC	552	GLY	C-N-CA	5.25	129.67	121.85
20	LJ	14	ALA	CA-C-N	5.25	127.26	120.44
20	LJ	14	ALA	C-N-CA	5.25	127.26	120.44
24	LN	260	LYS	N-CA-CB	5.25	117.62	110.01
32	LV	891	PHE	CA-C-N	5.25	128.11	120.98
32	LV	891	PHE	C-N-CA	5.25	128.11	120.98
38	Lb	329	MET	CA-C-N	5.25	127.31	120.28
38	Lb	329	MET	C-N-CA	5.25	127.31	120.28
39	Lc	493	HIS	ND1-CG-CD2	-5.25	100.85	106.10
39	Lc	522	ASP	CA-C-N	5.25	127.26	120.44
39	Lc	522	ASP	C-N-CA	5.25	127.26	120.44
40	Ld	344	ARG	CA-C-N	5.25	127.26	120.44
40	Ld	344	ARG	C-N-CA	5.25	127.26	120.44
40	Ld	522	ASP	CA-C-N	5.25	127.26	120.44
40	Ld	522	ASP	C-N-CA	5.25	127.26	120.44
41	Le	548	ALA	CA-C-N	5.25	127.31	120.28
41	Le	548	ALA	C-N-CA	5.25	127.31	120.28
42	Lf	349	HIS	ND1-CG-CD2	-5.25	100.85	106.10
50	Ln	160	HIS	ND1-CG-CD2	-5.25	100.85	106.10
51	Lo	341	THR	CA-C-N	5.25	130.11	121.87
51	Lo	341	THR	C-N-CA	5.25	130.11	121.87

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
61	Ly	615	PRO	CA-C-N	5.25	127.74	120.29
61	Ly	615	PRO	C-N-CA	5.25	127.74	120.29
1	L0	576	ASP	CA-C-N	5.25	127.26	120.44
1	L0	576	ASP	C-N-CA	5.25	127.26	120.44
3	L2	41	ARG	N-CA-CB	5.25	117.72	109.69
5	L4	194	HIS	ND1-CG-CD2	-5.25	100.86	106.10
9	L8	6	VAL	CA-C-N	5.25	127.17	120.56
9	L8	6	VAL	C-N-CA	5.25	127.17	120.56
17	LG	205	TYR	CA-C-N	5.25	127.26	120.44
17	LG	205	TYR	C-N-CA	5.25	127.26	120.44
20	LJ	87	ARG	CA-C-N	5.25	127.64	120.46
20	LJ	87	ARG	C-N-CA	5.25	127.64	120.46
29	LS	168	TYR	CA-C-N	5.25	127.31	120.28
29	LS	168	TYR	C-N-CA	5.25	127.31	120.28
36	LZ	43	HIS	ND1-CG-CD2	-5.25	100.86	106.10
44	Lh	561	ASN	CA-C-N	5.25	127.65	120.46
44	Lh	561	ASN	C-N-CA	5.25	127.65	120.46
46	Lj	33	LYS	N-CA-CB	5.25	117.75	109.83
57	Lu	299	VAL	CA-C-N	5.25	127.26	120.70
57	Lu	299	VAL	C-N-CA	5.25	127.26	120.70
64	UB	300	HIS	CA-C-N	5.25	130.39	123.05
64	UB	300	HIS	C-N-CA	5.25	130.39	123.05
14	LD	574	THR	CA-C-N	5.24	127.31	120.28
14	LD	574	THR	C-N-CA	5.24	127.31	120.28
16	LF	132	HIS	ND1-CG-CD2	-5.24	100.86	106.10
18	LH	202	HIS	ND1-CG-CD2	-5.24	100.86	106.10
21	LK	108	PRO	CA-C-N	5.24	130.03	122.16
21	LK	108	PRO	C-N-CA	5.24	130.03	122.16
23	LM	119	GLY	CA-C-N	5.24	128.92	121.42
23	LM	119	GLY	C-N-CA	5.24	128.92	121.42
32	LV	314	VAL	CA-C-N	5.24	127.26	120.44
32	LV	314	VAL	C-N-CA	5.24	127.26	120.44
35	LY	264	PHE	N-CA-CB	5.24	117.83	110.12
35	LY	314	GLY	CA-C-N	5.24	129.00	121.50
35	LY	314	GLY	C-N-CA	5.24	129.00	121.50
36	LZ	4	PHE	CA-C-N	5.24	129.80	121.99
36	LZ	4	PHE	C-N-CA	5.24	129.80	121.99
38	Lb	866	GLN	CA-C-N	5.24	127.17	120.56
38	Lb	866	GLN	C-N-CA	5.24	127.17	120.56
39	Lc	258	ALA	CA-C-N	5.24	128.29	120.95
39	Lc	258	ALA	C-N-CA	5.24	128.29	120.95
39	Lc	311	ARG	CA-C-N	5.24	127.25	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	311	ARG	C-N-CA	5.24	127.25	120.44
48	Ll	34	HIS	ND1-CG-CD2	-5.24	100.86	106.10
56	Lt	53	PRO	CA-C-N	5.24	128.28	120.31
56	Lt	53	PRO	C-N-CA	5.24	128.28	120.31
56	Lt	226	MET	CA-C-N	5.24	127.57	120.65
56	Lt	226	MET	C-N-CA	5.24	127.57	120.65
2	L1	461	GLY	CA-C-N	5.24	127.25	120.44
2	L1	461	GLY	C-N-CA	5.24	127.25	120.44
20	LJ	263	HIS	ND1-CG-CD2	-5.24	100.86	106.10
32	LV	517	LEU	CA-C-N	5.24	127.25	120.44
32	LV	517	LEU	C-N-CA	5.24	127.25	120.44
38	Lb	314	ARG	CA-C-N	5.24	128.31	120.87
38	Lb	314	ARG	C-N-CA	5.24	128.31	120.87
42	Lf	340	ASP	CA-C-N	5.24	127.25	120.44
42	Lf	340	ASP	C-N-CA	5.24	127.25	120.44
51	Lo	299	ALA	CA-C-N	5.24	127.25	120.44
51	Lo	299	ALA	C-N-CA	5.24	127.25	120.44
60	Lx	338	TRP	N-CA-CB	5.24	117.83	110.12
11	LA	114	HIS	ND1-CG-CD2	-5.24	100.86	106.10
12	LB	99	ALA	CA-C-N	5.24	127.25	120.44
12	LB	99	ALA	C-N-CA	5.24	127.25	120.44
22	LL	138	GLU	N-CA-CB	5.24	117.61	110.01
22	LL	605	TRP	CA-C-N	5.24	127.25	120.44
22	LL	605	TRP	C-N-CA	5.24	127.25	120.44
33	LW	376	VAL	CA-C-N	5.24	128.27	120.31
33	LW	376	VAL	C-N-CA	5.24	128.27	120.31
35	LY	532	GLN	CA-C-N	5.24	129.95	122.72
35	LY	532	GLN	C-N-CA	5.24	129.95	122.72
38	Lb	659	HIS	ND1-CG-CD2	-5.24	100.86	106.10
39	Lc	455	MET	CA-C-N	5.24	127.16	120.56
39	Lc	455	MET	C-N-CA	5.24	127.16	120.56
40	Ld	536	GLY	CA-C-N	5.24	127.25	120.44
40	Ld	536	GLY	C-N-CA	5.24	127.25	120.44
44	Lh	510	THR	CA-C-N	5.24	127.25	120.44
44	Lh	510	THR	C-N-CA	5.24	127.25	120.44
46	Lj	49	PHE	N-CA-CB	5.24	117.61	110.01
51	Lo	236	HIS	ND1-CG-CD2	-5.24	100.86	106.10
53	Lq	225	ALA	CA-C-N	5.24	127.30	120.28
53	Lq	225	ALA	C-N-CA	5.24	127.30	120.28
55	Ls	397	LYS	CA-C-N	5.24	130.10	121.87
55	Ls	397	LYS	C-N-CA	5.24	130.10	121.87
56	Lt	255	HIS	ND1-CG-CD2	-5.24	100.86	106.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
11	LA	81	LEU	N-CA-CB	5.24	117.61	110.01
11	LA	186	HIS	CA-C-N	5.24	128.99	121.71
11	LA	186	HIS	C-N-CA	5.24	128.99	121.71
13	LC	122	GLY	CA-C-N	5.24	130.46	122.23
13	LC	122	GLY	C-N-CA	5.24	130.46	122.23
17	LG	202	LYS	N-CA-CB	5.24	117.70	109.69
20	LJ	9	ARG	CA-C-N	5.24	127.25	120.44
20	LJ	9	ARG	C-N-CA	5.24	127.25	120.44
20	LJ	333	CYS	CA-C-N	5.24	131.30	122.87
20	LJ	333	CYS	C-N-CA	5.24	131.30	122.87
25	LO	243	HIS	ND1-CG-CD2	-5.24	100.86	106.10
30	LT	55	HIS	ND1-CG-CD2	-5.24	100.86	106.10
38	Lb	668	SER	CA-C-N	5.24	127.16	120.56
38	Lb	668	SER	C-N-CA	5.24	127.16	120.56
41	Le	540	GLY	CA-C-N	5.24	127.25	120.44
41	Le	540	GLY	C-N-CA	5.24	127.25	120.44
44	Lh	567	LYS	N-CA-CB	5.24	117.61	110.01
44	Lh	718	HIS	ND1-CG-CD2	-5.24	100.86	106.10
51	Lo	185	SER	N-CA-CB	5.24	117.74	109.83
52	Lp	496	ARG	CA-C-N	5.24	127.30	120.28
52	Lp	496	ARG	C-N-CA	5.24	127.30	120.28
52	Lp	631	HIS	ND1-CG-CD2	-5.24	100.86	106.10
60	Lx	291	GLU	N-CA-CB	5.24	117.61	110.01
1	L0	434	ARG	CA-C-N	5.24	127.73	120.29
1	L0	434	ARG	C-N-CA	5.24	127.73	120.29
14	LD	365	TRP	CA-C-N	5.24	127.25	120.44
14	LD	365	TRP	C-N-CA	5.24	127.25	120.44
22	LL	947	HIS	ND1-CG-CD2	-5.24	100.86	106.10
25	LO	303	HIS	ND1-CG-CD2	-5.24	100.86	106.10
36	LZ	97	LEU	N-CA-CB	5.24	117.60	110.01
38	Lb	709	GLN	CA-C-N	5.24	127.25	120.44
38	Lb	709	GLN	C-N-CA	5.24	127.25	120.44
38	Lb	780	HIS	ND1-CG-CD2	-5.24	100.86	106.10
39	Lc	431	VAL	CA-C-N	5.24	127.25	120.44
39	Lc	431	VAL	C-N-CA	5.24	127.25	120.44
45	Li	317	LEU	N-CA-CB	5.24	117.60	110.01
61	Ly	503	LYS	CA-C-N	5.24	128.27	120.31
61	Ly	503	LYS	C-N-CA	5.24	128.27	120.31
61	Ly	678	HIS	ND1-CG-CD2	-5.24	100.86	106.10
1	L0	459	CYS	CA-C-N	5.24	127.56	120.44
1	L0	459	CYS	C-N-CA	5.24	127.56	120.44
6	L5	471	TRP	N-CA-CB	5.24	117.60	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	L8	27	HIS	ND1-CG-CD2	-5.24	100.86	106.10
22	LL	209	HIS	ND1-CG-CD2	-5.24	100.86	106.10
45	Li	396	GLY	CA-C-N	5.24	130.46	122.29
45	Li	396	GLY	C-N-CA	5.24	130.46	122.29
53	Lq	129	HIS	ND1-CG-CD2	-5.24	100.86	106.10
53	Lq	697	HIS	ND1-CG-CD2	-5.24	100.86	106.10
69	UG	269	LEU	N-CA-CB	5.24	117.70	109.69
1	L0	384	ASN	CA-C-N	5.23	129.79	121.99
1	L0	384	ASN	C-N-CA	5.23	129.79	121.99
38	Lb	592	GLN	CA-C-N	5.23	131.08	123.12
38	Lb	592	GLN	C-N-CA	5.23	131.08	123.12
51	Lo	176	LEU	CA-C-N	5.23	127.15	120.56
51	Lo	176	LEU	C-N-CA	5.23	127.15	120.56
53	Lq	481	HIS	ND1-CG-CD2	-5.23	100.87	106.10
53	Lq	696	ASP	CA-C-N	5.23	127.25	120.44
53	Lq	696	ASP	C-N-CA	5.23	127.25	120.44
9	L8	28	HIS	ND1-CG-CD2	-5.23	100.87	106.10
20	LJ	267	TRP	N-CA-CB	5.23	117.60	110.01
25	LO	337	PRO	CA-C-N	5.23	128.20	120.82
25	LO	337	PRO	C-N-CA	5.23	128.20	120.82
36	LZ	95	SER	CA-C-N	5.23	127.29	120.28
36	LZ	95	SER	C-N-CA	5.23	127.29	120.28
38	Lb	405	VAL	CA-C-N	5.23	127.29	120.28
38	Lb	405	VAL	C-N-CA	5.23	127.29	120.28
43	Lg	130	LYS	CB-CG-CD	5.23	123.34	111.30
45	Li	697	HIS	ND1-CG-CD2	-5.23	100.87	106.10
52	Lp	380	HIS	ND1-CG-CD2	-5.23	100.87	106.10
55	Ls	581	ALA	CA-C-N	5.23	127.24	120.44
55	Ls	581	ALA	C-N-CA	5.23	127.24	120.44
13	LC	134	LEU	CA-C-N	5.23	127.24	120.44
13	LC	134	LEU	C-N-CA	5.23	127.24	120.44
23	LM	132	THR	CA-C-N	5.23	127.24	120.44
23	LM	132	THR	C-N-CA	5.23	127.24	120.44
25	LO	166	LEU	CA-C-N	5.23	129.83	122.09
25	LO	166	LEU	C-N-CA	5.23	129.83	122.09
38	Lb	862	LEU	N-CA-CB	5.23	117.59	110.01
39	Lc	441	LYS	CA-C-N	5.23	127.72	120.29
39	Lc	441	LYS	C-N-CA	5.23	127.72	120.29
43	Lg	214	PRO	CA-C-N	5.23	130.26	122.99
43	Lg	214	PRO	C-N-CA	5.23	130.26	122.99
52	Lp	500	GLN	CA-C-N	5.23	127.24	120.44
52	Lp	500	GLN	C-N-CA	5.23	127.24	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	LC	533	ARG	CA-C-N	5.23	127.24	120.44
13	LC	533	ARG	C-N-CA	5.23	127.24	120.44
23	LM	15	THR	CA-C-N	5.23	130.78	122.62
23	LM	15	THR	C-N-CA	5.23	130.78	122.62
40	Ld	460	HIS	ND1-CG-CD2	-5.23	100.87	106.10
40	Ld	500	HIS	ND1-CG-CD2	-5.23	100.87	106.10
41	Le	514	ASP	CA-C-N	5.23	128.26	120.31
41	Le	514	ASP	C-N-CA	5.23	128.26	120.31
55	Ls	388	HIS	ND1-CG-CD2	-5.23	100.87	106.10
61	Ly	449	GLU	CA-C-N	5.23	127.29	120.28
61	Ly	449	GLU	C-N-CA	5.23	127.29	120.28
3	L2	81	ARG	N-CA-CB	5.23	117.59	110.01
5	L4	582	GLU	N-CA-CB	5.23	117.59	110.01
14	LD	494	HIS	ND1-CG-CD2	-5.23	100.87	106.10
15	LE	449	CYS	CA-C-N	5.23	127.23	120.44
15	LE	449	CYS	C-N-CA	5.23	127.23	120.44
15	LE	688	VAL	CA-C-N	5.23	129.99	123.14
15	LE	688	VAL	C-N-CA	5.23	129.99	123.14
29	LS	98	PHE	CA-C-N	5.23	128.13	120.71
29	LS	98	PHE	C-N-CA	5.23	128.13	120.71
31	LU	297	HIS	ND1-CG-CD2	-5.23	100.87	106.10
38	Lb	721	ARG	CG-CD-NE	5.23	123.50	112.00
40	Ld	493	HIS	ND1-CG-CD2	-5.23	100.87	106.10
41	Le	552	LYS	CB-CG-CD	5.23	123.32	111.30
49	Lm	329	GLN	CA-C-N	5.23	127.28	120.28
49	Lm	329	GLN	C-N-CA	5.23	127.28	120.28
49	Lm	426	LEU	CA-C-N	5.23	127.55	120.44
49	Lm	426	LEU	C-N-CA	5.23	127.55	120.44
52	Lp	449	MET	CA-C-N	5.23	127.23	120.44
52	Lp	449	MET	C-N-CA	5.23	127.23	120.44
53	Lq	269	GLU	CA-C-N	5.23	127.24	120.44
53	Lq	269	GLU	C-N-CA	5.23	127.24	120.44
60	Lx	366	PRO	CA-C-N	5.23	127.24	120.44
60	Lx	366	PRO	C-N-CA	5.23	127.24	120.44
69	UG	270	HIS	ND1-CG-CD2	-5.23	100.87	106.10
69	UG	288	HIS	ND1-CG-CD2	-5.23	100.87	106.10
69	UG	322	HIS	ND1-CG-CD2	-5.23	100.87	106.10
1	L0	600	ILE	CA-C-N	5.23	127.23	120.44
1	L0	600	ILE	C-N-CA	5.23	127.23	120.44
5	L4	202	ALA	CA-C-N	5.23	128.25	120.31
5	L4	202	ALA	C-N-CA	5.23	128.25	120.31
19	LI	78	THR	CA-C-N	5.23	127.23	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
19	LI	78	THR	C-N-CA	5.23	127.23	120.44
33	LW	246	LYS	CA-C-N	5.23	128.97	121.50
33	LW	246	LYS	C-N-CA	5.23	128.97	121.50
37	La	80	ASP	N-CA-CB	5.23	117.88	110.46
39	Lc	327	LEU	N-CA-CB	5.23	117.59	110.01
41	Le	623	LYS	N-CA-CB	5.23	117.59	110.01
51	Lo	91	HIS	ND1-CG-CD2	-5.23	100.87	106.10
53	Lq	645	THR	CA-C-N	5.23	127.23	120.44
53	Lq	645	THR	C-N-CA	5.23	127.23	120.44
64	UB	349	VAL	CA-C-N	5.23	127.28	120.28
64	UB	349	VAL	C-N-CA	5.23	127.28	120.28
22	LL	385	HIS	ND1-CG-CD2	-5.22	100.88	106.10
22	LL	688	LYS	CA-C-N	5.22	127.23	120.44
22	LL	688	LYS	C-N-CA	5.22	127.23	120.44
25	LO	308	GLY	CA-C-N	5.22	129.82	122.09
25	LO	308	GLY	C-N-CA	5.22	129.82	122.09
26	LP	114	HIS	ND1-CG-CD2	-5.22	100.88	106.10
32	LV	1009	ASP	CA-CB-CG	5.22	117.82	112.60
34	LX	165	SER	CA-C-N	5.22	127.28	120.28
34	LX	165	SER	C-N-CA	5.22	127.28	120.28
38	Lb	688	HIS	ND1-CG-CD2	-5.22	100.88	106.10
38	Lb	791	ARG	CA-C-N	5.22	127.23	120.44
38	Lb	791	ARG	C-N-CA	5.22	127.23	120.44
39	Lc	254	ARG	CA-C-N	5.22	131.31	122.79
39	Lc	254	ARG	C-N-CA	5.22	131.31	122.79
39	Lc	456	ILE	N-CA-CB	5.22	116.66	110.55
44	Lh	508	HIS	ND1-CG-CD2	-5.22	100.88	106.10
45	Li	664	GLN	CA-C-N	5.22	127.23	120.44
45	Li	664	GLN	C-N-CA	5.22	127.23	120.44
46	Lj	74	ARG	CA-CB-CG	5.22	124.55	114.10
48	Ll	85	ILE	CA-C-N	5.22	127.28	120.28
48	Ll	85	ILE	C-N-CA	5.22	127.28	120.28
53	Lq	648	LEU	CA-C-N	5.22	127.28	120.28
53	Lq	648	LEU	C-N-CA	5.22	127.28	120.28
59	Lw	156	ARG	CA-C-N	5.22	127.23	120.44
59	Lw	156	ARG	C-N-CA	5.22	127.23	120.44
67	UE	122	HIS	ND1-CG-CD2	-5.22	100.88	106.10
1	L0	418	GLN	N-CA-CB	5.22	117.58	110.01
9	L8	166	HIS	ND1-CG-CD2	-5.22	100.88	106.10
13	LC	184	GLU	CA-C-N	5.22	127.14	120.56
13	LC	184	GLU	C-N-CA	5.22	127.14	120.56
32	LV	478	PRO	CA-C-N	5.22	127.23	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	LV	478	PRO	C-N-CA	5.22	127.23	120.44
32	LV	893	HIS	ND1-CG-CD2	-5.22	100.88	106.10
33	LW	463	GLY	CA-C-N	5.22	127.28	120.28
33	LW	463	GLY	C-N-CA	5.22	127.28	120.28
38	Lb	459	ASP	CA-C-N	5.22	127.23	120.44
38	Lb	459	ASP	C-N-CA	5.22	127.23	120.44
38	Lb	730	VAL	CA-C-N	5.22	127.23	120.44
38	Lb	730	VAL	C-N-CA	5.22	127.23	120.44
41	Le	448	LEU	CA-C-N	5.22	127.23	120.44
41	Le	448	LEU	C-N-CA	5.22	127.23	120.44
53	Lq	194	ARG	NE-CZ-NH2	5.22	123.90	119.20
53	Lq	223	LEU	CA-C-N	5.22	127.23	120.44
53	Lq	223	LEU	C-N-CA	5.22	127.23	120.44
53	Lq	667	HIS	ND1-CG-CD2	-5.22	100.88	106.10
58	Lv	50	HIS	ND1-CG-CD2	-5.22	100.88	106.10
59	Lw	149	HIS	ND1-CG-CD2	-5.22	100.88	106.10
62	Lz	207	HIS	ND1-CG-CD2	-5.22	100.88	106.10
67	UE	142	SER	CA-C-N	5.22	127.14	120.56
67	UE	142	SER	C-N-CA	5.22	127.14	120.56
68	UF	46	PHE	CA-C-N	5.22	129.93	122.72
68	UF	46	PHE	C-N-CA	5.22	129.93	122.72
13	LC	457	HIS	ND1-CG-CD2	-5.22	100.88	106.10
25	LO	135	LEU	N-CA-CB	5.22	117.63	109.85
32	LV	602	HIS	ND1-CG-CD2	-5.22	100.88	106.10
41	Le	537	PRO	CA-C-N	5.22	128.12	120.71
41	Le	537	PRO	C-N-CA	5.22	128.12	120.71
42	Lf	290	ALA	CA-C-N	5.22	130.78	121.75
42	Lf	290	ALA	C-N-CA	5.22	130.78	121.75
42	Lf	332	ALA	CA-C-O	-5.22	115.45	121.19
55	Ls	330	HIS	ND1-CG-CD2	-5.22	100.88	106.10
61	Ly	300	ARG	N-CA-CB	5.22	117.81	110.24
67	UE	137	HIS	N-CA-CB	5.22	117.58	110.01
13	LC	452	SER	CA-C-N	5.22	127.70	120.29
13	LC	452	SER	C-N-CA	5.22	127.70	120.29
20	LJ	279	ILE	CA-C-N	5.22	128.24	120.31
20	LJ	279	ILE	C-N-CA	5.22	128.24	120.31
32	LV	404	LEU	N-CA-CB	5.22	117.58	110.01
33	LW	467	HIS	ND1-CG-CD2	-5.22	100.88	106.10
40	Ld	339	VAL	CA-C-N	5.22	127.14	120.56
40	Ld	339	VAL	C-N-CA	5.22	127.14	120.56
40	Ld	535	SER	N-CA-CB	5.22	117.68	109.69
45	Li	478	HIS	ND1-CG-CD2	-5.22	100.88	106.10

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
54	Lr	266	SER	CA-C-N	5.22	129.11	121.80
54	Lr	266	SER	C-N-CA	5.22	129.11	121.80
56	Lt	114	HIS	ND1-CG-CD2	-5.22	100.88	106.10
56	Lt	228	HIS	ND1-CG-CD2	-5.22	100.88	106.10
57	Lu	294	PRO	CA-C-N	5.22	127.23	120.44
57	Lu	294	PRO	C-N-CA	5.22	127.23	120.44
58	Lv	30	GLU	CA-C-N	5.22	127.14	120.56
58	Lv	30	GLU	C-N-CA	5.22	127.14	120.56
64	UB	388	ASP	CA-C-N	5.22	127.22	120.44
64	UB	388	ASP	C-N-CA	5.22	127.22	120.44
68	UF	11	HIS	ND1-CG-CD2	-5.22	100.88	106.10
25	LO	188	ARG	CA-C-N	5.22	130.93	122.68
25	LO	188	ARG	C-N-CA	5.22	130.93	122.68
37	La	146	ALA	CA-C-N	5.22	127.79	120.28
37	La	146	ALA	C-N-CA	5.22	127.79	120.28
41	Le	543	ALA	CA-C-N	5.22	127.13	120.56
41	Le	543	ALA	C-N-CA	5.22	127.13	120.56
52	Lp	409	LYS	CA-C-N	5.22	127.27	120.28
52	Lp	409	LYS	C-N-CA	5.22	127.27	120.28
59	Lw	163	ARG	CA-C-N	5.22	127.22	120.44
59	Lw	163	ARG	C-N-CA	5.22	127.22	120.44
60	Lx	336	LYS	CA-C-N	5.22	127.70	120.29
60	Lx	336	LYS	C-N-CA	5.22	127.70	120.29
61	Ly	376	VAL	CA-C-N	5.22	130.50	123.46
61	Ly	376	VAL	C-N-CA	5.22	130.50	123.46
67	UE	137	HIS	ND1-CG-CD2	-5.22	100.88	106.10
9	L8	97	PRO	CA-C-N	5.22	127.54	120.65
9	L8	97	PRO	C-N-CA	5.22	127.54	120.65
10	L9	418	LEU	CA-C-N	5.22	130.78	122.59
10	L9	418	LEU	C-N-CA	5.22	130.78	122.59
13	LC	117	GLY	CA-C-N	5.22	129.83	121.17
13	LC	117	GLY	C-N-CA	5.22	129.83	121.17
20	LJ	192	ALA	CA-C-N	5.22	127.22	120.44
20	LJ	192	ALA	C-N-CA	5.22	127.22	120.44
20	LJ	242	ILE	N-CA-CB	5.22	116.65	110.55
20	LJ	297	HIS	ND1-CG-CD2	-5.22	100.88	106.10
26	LP	126	ASP	N-CA-CB	5.22	117.67	109.69
28	LR	43	THR	CA-C-N	5.22	128.96	121.50
28	LR	43	THR	C-N-CA	5.22	128.96	121.50
32	LV	674	PHE	CA-C-N	5.22	127.22	120.44
32	LV	674	PHE	C-N-CA	5.22	127.22	120.44
38	Lb	289	ILE	CA-C-N	5.22	125.30	120.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	289	ILE	C-N-CA	5.22	125.30	120.34
38	Lb	423	ARG	N-CA-CB	5.22	117.58	110.01
44	Lh	417	ILE	CA-C-N	5.22	127.22	120.44
44	Lh	417	ILE	C-N-CA	5.22	127.22	120.44
45	Li	559	GLU	CA-C-N	5.22	130.85	122.50
45	Li	559	GLU	C-N-CA	5.22	130.85	122.50
51	Lo	163	PHE	CA-C-N	5.22	128.24	120.31
51	Lo	163	PHE	C-N-CA	5.22	128.24	120.31
54	Lr	140	PRO	CA-C-N	5.22	127.22	120.44
54	Lr	140	PRO	C-N-CA	5.22	127.22	120.44
56	Lt	236	PHE	N-CA-CB	5.22	117.71	109.94
61	Ly	282	PRO	CA-C-N	5.22	130.52	123.11
61	Ly	282	PRO	C-N-CA	5.22	130.52	123.11
27	LQ	357	ARG	CA-C-N	5.21	127.69	120.29
27	LQ	357	ARG	C-N-CA	5.21	127.69	120.29
29	LS	73	ARG	CA-C-N	5.21	130.42	122.65
29	LS	73	ARG	C-N-CA	5.21	130.42	122.65
35	LY	520	HIS	ND1-CG-CD2	-5.21	100.89	106.10
36	LZ	37	GLU	CA-C-N	5.21	131.05	123.12
36	LZ	37	GLU	C-N-CA	5.21	131.05	123.12
40	Ld	370	SER	CA-C-N	5.21	130.76	122.94
40	Ld	370	SER	C-N-CA	5.21	130.76	122.94
43	Lg	135	GLU	CA-C-N	5.21	127.22	120.44
43	Lg	135	GLU	C-N-CA	5.21	127.22	120.44
45	Li	276	ASP	CA-C-N	5.21	127.61	120.46
45	Li	276	ASP	C-N-CA	5.21	127.61	120.46
47	Lk	470	PHE	CA-C-N	5.21	128.97	121.56
47	Lk	470	PHE	C-N-CA	5.21	128.97	121.56
53	Lq	680	GLU	CA-C-N	5.21	127.22	120.44
53	Lq	680	GLU	C-N-CA	5.21	127.22	120.44
54	Lr	16	GLY	CA-C-N	5.21	127.27	120.28
54	Lr	16	GLY	C-N-CA	5.21	127.27	120.28
54	Lr	100	LEU	CA-C-N	5.21	127.22	120.44
54	Lr	100	LEU	C-N-CA	5.21	127.22	120.44
65	UC	289	LYS	N-CA-CB	5.21	117.75	109.82
17	LG	238	LYS	CA-C-N	5.21	130.76	122.94
17	LG	238	LYS	C-N-CA	5.21	130.76	122.94
19	LI	82	VAL	CA-C-N	5.21	127.22	120.44
19	LI	82	VAL	C-N-CA	5.21	127.22	120.44
30	LT	11	SER	CA-C-N	5.21	130.96	122.67
30	LT	11	SER	C-N-CA	5.21	130.96	122.67
32	LV	913	ALA	CA-C-N	5.21	127.22	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	LV	913	ALA	C-N-CA	5.21	127.22	120.44
35	LY	379	LEU	CA-C-N	5.21	127.69	120.29
35	LY	379	LEU	C-N-CA	5.21	127.69	120.29
38	Lb	579	LEU	CA-C-N	5.21	127.27	120.28
38	Lb	579	LEU	C-N-CA	5.21	127.27	120.28
52	Lp	717	PHE	N-CA-CB	5.21	117.67	109.69
5	L4	314	HIS	ND1-CG-CD2	-5.21	100.89	106.10
5	L4	534	ASP	N-CA-CB	5.21	117.61	109.85
24	LN	301	LEU	CA-C-N	5.21	127.22	120.44
24	LN	301	LEU	C-N-CA	5.21	127.22	120.44
25	LO	213	ILE	N-CA-CB	5.21	116.61	110.82
27	LQ	412	ASP	CA-C-N	5.21	127.72	120.63
27	LQ	412	ASP	C-N-CA	5.21	127.72	120.63
31	LU	304	TRP	CA-C-N	5.21	127.26	120.28
31	LU	304	TRP	C-N-CA	5.21	127.26	120.28
33	LW	340	SER	CA-C-N	5.21	127.99	120.38
33	LW	340	SER	C-N-CA	5.21	127.99	120.38
38	Lb	338	ILE	N-CA-CB	5.21	116.65	110.55
40	Ld	589	HIS	ND1-CG-CD2	-5.21	100.89	106.10
41	Le	475	ALA	CA-C-N	5.21	127.22	120.44
41	Le	475	ALA	C-N-CA	5.21	127.22	120.44
41	Le	612	PHE	CA-C-N	5.21	127.22	120.44
41	Le	612	PHE	C-N-CA	5.21	127.22	120.44
41	Le	622	GLU	N-CA-CB	5.21	117.57	110.01
44	Lh	712	ARG	N-CA-CB	5.21	117.74	109.82
56	Lt	71	ARG	CA-C-N	5.21	127.26	120.28
56	Lt	71	ARG	C-N-CA	5.21	127.26	120.28
62	Lz	155	ASN	CA-C-N	5.21	127.21	120.44
62	Lz	155	ASN	C-N-CA	5.21	127.21	120.44
6	L5	467	ALA	CA-C-N	5.21	127.21	120.44
6	L5	467	ALA	C-N-CA	5.21	127.21	120.44
9	L8	147	GLN	CA-C-N	5.21	127.21	120.44
9	L8	147	GLN	C-N-CA	5.21	127.21	120.44
20	LJ	42	HIS	ND1-CG-CD2	-5.21	100.89	106.10
20	LJ	311	HIS	ND1-CG-CD2	-5.21	100.89	106.10
22	LL	138	GLU	CA-C-N	5.21	127.21	120.44
22	LL	138	GLU	C-N-CA	5.21	127.21	120.44
24	LN	323	PRO	CA-C-N	5.21	127.21	120.44
24	LN	323	PRO	C-N-CA	5.21	127.21	120.44
39	Lc	427	ARG	CG-CD-NE	5.21	123.46	112.00
41	Le	513	PHE	CA-C-N	5.21	130.68	123.07
41	Le	513	PHE	C-N-CA	5.21	130.68	123.07

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	Lh	476	ASN	CA-C-N	5.21	127.78	120.28
44	Lh	476	ASN	C-N-CA	5.21	127.78	120.28
44	Lh	491	LYS	CA-C-N	5.21	127.21	120.44
44	Lh	491	LYS	C-N-CA	5.21	127.21	120.44
53	Lq	695	GLU	CA-C-N	5.21	127.53	120.65
53	Lq	695	GLU	C-N-CA	5.21	127.53	120.65
61	Ly	362	ILE	CA-C-N	5.21	128.60	120.68
61	Ly	362	ILE	C-N-CA	5.21	128.60	120.68
13	LC	274	ALA	CA-C-N	5.21	127.21	120.44
13	LC	274	ALA	C-N-CA	5.21	127.21	120.44
22	LL	314	CYS	N-CA-CB	5.21	117.66	109.69
26	LP	84	ILE	CA-C-N	5.21	127.21	120.44
26	LP	84	ILE	C-N-CA	5.21	127.21	120.44
31	LU	264	HIS	ND1-CG-CD2	-5.21	100.89	106.10
32	LV	482	LEU	N-CA-CB	5.21	117.56	110.01
32	LV	511	ASN	CA-C-N	5.21	130.04	121.39
32	LV	511	ASN	C-N-CA	5.21	130.04	121.39
35	LY	398	SER	CA-C-N	5.21	127.26	120.28
35	LY	398	SER	C-N-CA	5.21	127.26	120.28
40	Ld	351	ILE	CA-C-N	5.21	130.85	123.14
40	Ld	351	ILE	C-N-CA	5.21	130.85	123.14
41	Le	420	HIS	ND1-CG-CD2	-5.21	100.89	106.10
46	Lj	20	HIS	ND1-CG-CD2	-5.21	100.89	106.10
48	Ll	11	LEU	CA-C-N	5.21	130.37	122.56
48	Ll	11	LEU	C-N-CA	5.21	130.37	122.56
52	Lp	447	LYS	CA-C-N	5.21	127.26	120.28
52	Lp	447	LYS	C-N-CA	5.21	127.26	120.28
56	Lt	74	LEU	CA-C-N	5.21	127.21	120.44
56	Lt	74	LEU	C-N-CA	5.21	127.21	120.44
57	Lu	269	ARG	N-CA-CB	5.21	117.70	109.94
57	Lu	351	MET	CA-C-N	5.21	127.26	120.28
57	Lu	351	MET	C-N-CA	5.21	127.26	120.28
58	Lv	19	HIS	CA-C-N	5.21	130.30	122.75
58	Lv	19	HIS	C-N-CA	5.21	130.30	122.75
4	L3	723	ASP	CA-C-N	5.21	127.26	120.28
4	L3	723	ASP	C-N-CA	5.21	127.26	120.28
11	LA	18	HIS	ND1-CG-CD2	-5.21	100.89	106.10
13	LC	132	ILE	CA-C-N	5.21	127.21	120.44
13	LC	132	ILE	C-N-CA	5.21	127.21	120.44
22	LL	141	LYS	CA-C-N	5.21	127.26	120.28
22	LL	141	LYS	C-N-CA	5.21	127.26	120.28
38	Lb	395	THR	CA-C-N	5.21	127.21	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	395	THR	C-N-CA	5.21	127.21	120.44
38	Lb	582	PHE	N-CA-CB	5.21	117.86	110.16
38	Lb	864	ARG	N-CA-CB	5.21	117.56	110.01
39	Lc	359	ARG	CA-C-N	5.21	127.59	120.46
39	Lc	359	ARG	C-N-CA	5.21	127.59	120.46
39	Lc	460	HIS	ND1-CG-CD2	-5.21	100.89	106.10
40	Ld	310	ARG	CB-CG-CD	5.21	123.27	111.30
40	Ld	502	LEU	CA-C-N	5.21	127.68	120.29
40	Ld	502	LEU	C-N-CA	5.21	127.68	120.29
43	Lg	192	LYS	CA-C-N	5.21	127.21	120.44
43	Lg	192	LYS	C-N-CA	5.21	127.21	120.44
45	Li	534	HIS	ND1-CG-CD2	-5.21	100.89	106.10
51	Lo	348	GLU	N-CA-CB	5.21	117.66	109.69
53	Lq	261	VAL	CA-C-N	5.21	127.21	120.44
53	Lq	261	VAL	C-N-CA	5.21	127.21	120.44
55	Ls	577	GLU	CA-C-N	5.21	127.26	120.28
55	Ls	577	GLU	C-N-CA	5.21	127.26	120.28
56	Lt	100	PHE	CA-C-N	5.21	127.21	120.44
56	Lt	100	PHE	C-N-CA	5.21	127.21	120.44
56	Lt	108	HIS	ND1-CG-CD2	-5.21	100.89	106.10
13	LC	472	ASP	CA-C-N	5.21	127.21	120.44
13	LC	472	ASP	C-N-CA	5.21	127.21	120.44
20	LJ	158	ILE	CA-C-N	5.21	127.21	120.44
20	LJ	158	ILE	C-N-CA	5.21	127.21	120.44
32	LV	1060	ILE	N-CA-CB	5.21	116.64	110.55
41	Le	552	LYS	CA-C-N	5.21	127.21	120.44
41	Le	552	LYS	C-N-CA	5.21	127.21	120.44
43	Lg	140	ARG	N-CA-CB	5.21	117.56	110.01
44	Lh	708	GLU	CA-C-N	5.21	127.25	120.28
44	Lh	708	GLU	C-N-CA	5.21	127.25	120.28
51	Lo	345	LYS	N-CA-CB	5.21	117.62	109.97
63	UA	244	LYS	CA-C-N	5.21	127.21	120.44
63	UA	244	LYS	C-N-CA	5.21	127.21	120.44
6	L5	458	ARG	N-CA-CB	5.20	117.65	109.69
9	L8	89	ARG	N-CA-CB	5.20	117.56	110.01
10	L9	6	TYR	N-CA-CB	5.20	117.56	110.01
17	LG	233	PHE	CA-C-N	5.20	127.25	120.28
17	LG	233	PHE	C-N-CA	5.20	127.25	120.28
22	LL	933	ILE	N-CA-CB	5.20	115.91	111.64
29	LS	115	HIS	ND1-CG-CD2	-5.20	100.90	106.10
36	LZ	50	ARG	CA-C-N	5.20	131.25	122.87
36	LZ	50	ARG	C-N-CA	5.20	131.25	122.87

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	La	158	ALA	CA-C-N	5.20	127.68	120.29
37	La	158	ALA	C-N-CA	5.20	127.68	120.29
37	La	166	LEU	N-CA-CB	5.20	117.56	110.01
38	Lb	413	ASN	CA-C-N	5.20	129.88	122.08
38	Lb	413	ASN	C-N-CA	5.20	129.88	122.08
38	Lb	646	LEU	CA-C-N	5.20	127.20	120.44
38	Lb	646	LEU	C-N-CA	5.20	127.20	120.44
38	Lb	664	SER	CA-C-N	5.20	127.20	120.44
38	Lb	664	SER	C-N-CA	5.20	127.20	120.44
45	Li	359	HIS	ND1-CG-CD2	-5.20	100.90	106.10
47	Lk	430	HIS	CA-CB-CG	5.20	119.00	113.80
56	Lt	219	PHE	N-CA-CB	5.20	117.65	109.69
56	Lt	241	GLN	CA-C-N	5.20	127.25	120.28
56	Lt	241	GLN	C-N-CA	5.20	127.25	120.28
68	UF	7	LYS	CA-C-N	5.20	128.94	121.50
68	UF	7	LYS	C-N-CA	5.20	128.94	121.50
2	L1	432	PHE	CA-C-N	5.20	129.69	122.77
2	L1	432	PHE	C-N-CA	5.20	129.69	122.77
20	LJ	220	ALA	CA-C-N	5.20	127.11	120.56
20	LJ	220	ALA	C-N-CA	5.20	127.11	120.56
33	LW	472	HIS	ND1-CG-CD2	-5.20	100.90	106.10
44	Lh	492	PHE	N-CA-CB	5.20	117.55	110.01
51	Lo	116	PRO	CA-C-N	5.20	128.06	120.98
51	Lo	116	PRO	C-N-CA	5.20	128.06	120.98
53	Lq	132	HIS	ND1-CG-CD2	-5.20	100.90	106.10
54	Lr	104	ASP	CA-C-N	5.20	127.20	120.44
54	Lr	104	ASP	C-N-CA	5.20	127.20	120.44
1	L0	427	ARG	CG-CD-NE	5.20	123.44	112.00
12	LB	24	LYS	CA-CB-CG	5.20	124.50	114.10
15	LE	596	SER	CA-C-N	5.20	129.56	122.90
15	LE	596	SER	C-N-CA	5.20	129.56	122.90
19	LI	24	LEU	CA-C-N	5.20	127.25	120.28
19	LI	24	LEU	C-N-CA	5.20	127.25	120.28
24	LN	317	LYS	CA-C-N	5.20	127.97	120.38
24	LN	317	LYS	C-N-CA	5.20	127.97	120.38
33	LW	284	VAL	N-CA-CB	5.20	117.52	111.90
35	LY	249	ARG	CA-CB-CG	5.20	124.50	114.10
35	LY	253	GLN	CA-C-N	5.20	127.20	120.44
35	LY	253	GLN	C-N-CA	5.20	127.20	120.44
39	Lc	308	SER	CA-C-N	5.20	127.25	120.28
39	Lc	308	SER	C-N-CA	5.20	127.25	120.28
52	Lp	476	ILE	CA-C-N	5.20	130.32	122.99

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
52	Lp	476	ILE	C-N-CA	5.20	130.32	122.99
56	Lt	223	ARG	CA-C-N	5.20	127.20	120.44
56	Lt	223	ARG	C-N-CA	5.20	127.20	120.44
61	Ly	649	TYR	CA-C-N	5.20	127.20	120.44
61	Ly	649	TYR	C-N-CA	5.20	127.20	120.44
4	L3	413	THR	CA-C-N	5.20	127.20	120.44
4	L3	413	THR	C-N-CA	5.20	127.20	120.44
10	L9	4	ARG	CA-C-N	5.20	127.20	120.44
10	L9	4	ARG	C-N-CA	5.20	127.20	120.44
12	LB	1	MET	CA-C-N	5.20	127.25	120.28
12	LB	1	MET	C-N-CA	5.20	127.25	120.28
17	LG	209	ARG	CA-C-N	5.20	127.21	120.56
17	LG	209	ARG	C-N-CA	5.20	127.21	120.56
20	LJ	4	LEU	CA-C-N	5.20	127.62	120.39
20	LJ	4	LEU	C-N-CA	5.20	127.62	120.39
20	LJ	296	LEU	N-CA-CB	5.20	117.55	110.01
25	LO	8	HIS	ND1-CG-CD2	-5.20	100.90	106.10
25	LO	180	THR	CA-C-N	5.20	129.40	120.72
25	LO	180	THR	C-N-CA	5.20	129.40	120.72
27	LQ	381	ARG	CA-C-N	5.20	127.20	120.44
27	LQ	381	ARG	C-N-CA	5.20	127.20	120.44
38	Lb	295	ASN	N-CA-CB	5.20	117.64	109.69
39	Lc	590	ILE	CA-C-N	5.20	127.58	120.46
39	Lc	590	ILE	C-N-CA	5.20	127.58	120.46
40	Ld	405	LEU	CA-C-N	5.20	128.92	120.60
40	Ld	405	LEU	C-N-CA	5.20	128.92	120.60
43	Lg	186	GLN	CA-C-N	5.20	129.47	120.58
43	Lg	186	GLN	C-N-CA	5.20	129.47	120.58
44	Lh	478	ARG	CG-CD-NE	5.20	123.44	112.00
44	Lh	481	TRP	CA-C-N	5.20	127.67	120.29
44	Lh	481	TRP	C-N-CA	5.20	127.67	120.29
44	Lh	524	LYS	CA-CB-CG	5.20	124.50	114.10
57	Lu	260	HIS	ND1-CG-CD2	-5.20	100.90	106.10
67	UE	149	SER	CA-C-N	5.20	130.75	122.74
67	UE	149	SER	C-N-CA	5.20	130.75	122.74
9	L8	31	ASN	CA-C-N	5.20	127.20	120.44
9	L8	31	ASN	C-N-CA	5.20	127.20	120.44
13	LC	283	LEU	CA-C-N	5.20	127.20	120.44
13	LC	283	LEU	C-N-CA	5.20	127.20	120.44
22	LL	945	ARG	CG-CD-NE	5.20	123.43	112.00
36	LZ	110	ARG	CA-C-N	5.20	128.93	121.50
36	LZ	110	ARG	C-N-CA	5.20	128.93	121.50

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	Lg	188	HIS	ND1-CG-CD2	-5.20	100.90	106.10
44	Lh	480	LEU	CA-C-N	5.20	127.20	120.44
44	Lh	480	LEU	C-N-CA	5.20	127.20	120.44
3	L2	186	ALA	CA-C-N	5.20	127.19	120.44
3	L2	186	ALA	C-N-CA	5.20	127.19	120.44
20	LJ	344	SER	N-CA-CB	5.20	117.64	109.69
22	LL	910	LEU	CA-C-N	5.20	127.11	120.56
22	LL	910	LEU	C-N-CA	5.20	127.11	120.56
25	LO	246	THR	CA-C-N	5.20	130.73	122.94
25	LO	246	THR	C-N-CA	5.20	130.73	122.94
32	LV	413	ASP	CA-C-N	5.20	130.03	122.08
32	LV	413	ASP	C-N-CA	5.20	130.03	122.08
38	Lb	297	TYR	N-CA-CB	5.20	117.64	109.69
61	Ly	459	HIS	ND1-CG-CD2	-5.20	100.91	106.10
96	lO	118	A	C4'-C3'-O3'	5.20	117.19	109.40
1	L0	336	PHE	CA-C-N	5.19	129.47	121.37
1	L0	336	PHE	C-N-CA	5.19	129.47	121.37
1	L0	595	TRP	CA-C-N	5.19	127.24	120.28
1	L0	595	TRP	C-N-CA	5.19	127.24	120.28
3	L2	109	GLY	CA-C-N	5.19	127.58	120.46
3	L2	109	GLY	C-N-CA	5.19	127.58	120.46
7	L6	251	HIS	ND1-CG-CD2	-5.19	100.91	106.10
11	LA	89	LEU	CA-C-N	5.19	128.21	120.31
11	LA	89	LEU	C-N-CA	5.19	128.21	120.31
25	LO	87	ARG	CA-CB-CG	5.19	124.49	114.10
40	Ld	413	ILE	CA-C-N	5.19	127.19	120.44
40	Ld	413	ILE	C-N-CA	5.19	127.19	120.44
51	Lo	114	ARG	CA-C-N	5.19	128.57	120.68
51	Lo	114	ARG	C-N-CA	5.19	128.57	120.68
57	Lu	353	LYS	CA-C-N	5.19	127.19	120.44
57	Lu	353	LYS	C-N-CA	5.19	127.19	120.44
61	Ly	329	PHE	CA-C-N	5.19	129.78	122.09
61	Ly	329	PHE	C-N-CA	5.19	129.78	122.09
1	L0	377	HIS	ND1-CG-CD2	-5.19	100.91	106.10
9	L8	34	LYS	CA-CB-CG	5.19	124.49	114.10
14	LD	478	ILE	CA-C-N	5.19	129.93	122.45
14	LD	478	ILE	C-N-CA	5.19	129.93	122.45
32	LV	1056	LEU	N-CA-CB	5.19	117.54	110.01
32	LV	1065	ALA	CA-C-N	5.19	130.03	122.08
32	LV	1065	ALA	C-N-CA	5.19	130.03	122.08
39	Lc	301	HIS	ND1-CG-CD2	-5.19	100.91	106.10
39	Lc	597	LYS	N-CA-CB	5.19	117.54	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Li	688	HIS	ND1-CG-CD2	-5.19	100.91	106.10
47	Lk	442	ILE	CA-C-N	5.19	130.48	123.11
47	Lk	442	ILE	C-N-CA	5.19	130.48	123.11
48	Ll	37	HIS	ND1-CG-CD2	-5.19	100.91	106.10
49	Lm	420	VAL	CA-C-N	5.19	127.19	120.44
49	Lm	420	VAL	C-N-CA	5.19	127.19	120.44
53	Lq	184	HIS	ND1-CG-CD2	-5.19	100.91	106.10
55	Ls	361	LEU	CA-C-N	5.19	130.72	122.62
55	Ls	361	LEU	C-N-CA	5.19	130.72	122.62
55	Ls	391	GLN	CA-C-N	5.19	128.72	121.24
55	Ls	391	GLN	C-N-CA	5.19	128.72	121.24
68	UF	12	LYS	CA-C-N	5.19	127.19	120.44
68	UF	12	LYS	C-N-CA	5.19	127.19	120.44
12	LB	23	ILE	CA-C-N	5.19	127.50	120.65
12	LB	23	ILE	C-N-CA	5.19	127.50	120.65
14	LD	371	GLN	CA-C-N	5.19	127.19	120.44
14	LD	371	GLN	C-N-CA	5.19	127.19	120.44
25	LO	132	PHE	CA-C-N	5.19	130.72	122.62
25	LO	132	PHE	C-N-CA	5.19	130.72	122.62
31	LU	298	VAL	CA-C-N	5.19	127.19	120.44
31	LU	298	VAL	C-N-CA	5.19	127.19	120.44
38	Lb	585	VAL	CA-C-N	5.19	127.19	120.44
38	Lb	585	VAL	C-N-CA	5.19	127.19	120.44
39	Lc	317	ARG	CA-C-N	5.19	127.19	120.44
39	Lc	317	ARG	C-N-CA	5.19	127.19	120.44
44	Lh	434	SER	N-CA-CB	5.19	117.54	110.38
44	Lh	516	HIS	ND1-CG-CD2	-5.19	100.91	106.10
49	Lm	283	THR	CA-C-N	5.19	128.04	120.98
49	Lm	283	THR	C-N-CA	5.19	128.04	120.98
55	Ls	576	ALA	CA-C-N	5.19	127.19	120.44
55	Ls	576	ALA	C-N-CA	5.19	127.19	120.44
57	Lu	415	LEU	CA-C-N	5.19	129.29	120.88
57	Lu	415	LEU	C-N-CA	5.19	129.29	120.88
64	UB	277	GLY	CA-C-N	5.19	130.16	123.00
64	UB	277	GLY	C-N-CA	5.19	130.16	123.00
23	LM	134	ARG	CG-CD-NE	5.19	123.42	112.00
35	LY	393	ILE	CA-C-N	5.19	127.19	120.44
35	LY	393	ILE	C-N-CA	5.19	127.19	120.44
41	Le	431	MET	N-CA-CB	5.19	117.53	110.01
53	Lq	282	VAL	CA-C-N	5.19	127.19	120.44
53	Lq	282	VAL	C-N-CA	5.19	127.19	120.44
53	Lq	485	GLU	N-CA-CB	5.19	117.53	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
70	UH	257	LYS	CA-C-N	5.19	129.38	120.71
70	UH	257	LYS	C-N-CA	5.19	129.38	120.71
9	L8	151	GLU	N-CA-CB	5.19	117.53	110.01
21	LK	167	SER	CA-C-N	5.19	127.23	120.28
21	LK	167	SER	C-N-CA	5.19	127.23	120.28
22	LL	290	ASN	CA-C-N	5.19	127.18	120.44
22	LL	290	ASN	C-N-CA	5.19	127.18	120.44
25	LO	100	GLY	CA-C-N	5.19	130.72	122.94
25	LO	100	GLY	C-N-CA	5.19	130.72	122.94
25	LO	126	PHE	CA-C-N	5.19	130.23	122.86
25	LO	126	PHE	C-N-CA	5.19	130.23	122.86
25	LO	131	HIS	ND1-CG-CD2	-5.19	100.91	106.10
28	LR	122	HIS	ND1-CG-CD2	-5.19	100.91	106.10
31	LU	300	LYS	CA-C-N	5.19	127.10	120.56
31	LU	300	LYS	C-N-CA	5.19	127.10	120.56
35	LY	474	PHE	N-CA-CB	5.19	117.53	110.01
38	Lb	750	ASP	CA-C-N	5.19	127.57	120.46
38	Lb	750	ASP	C-N-CA	5.19	127.57	120.46
38	Lb	891	GLU	CA-C-N	5.19	127.75	120.28
38	Lb	891	GLU	C-N-CA	5.19	127.75	120.28
44	Lh	339	HIS	ND1-CG-CD2	-5.19	100.91	106.10
47	Lk	537	GLU	CA-C-N	5.19	127.18	120.44
47	Lk	537	GLU	C-N-CA	5.19	127.18	120.44
34	LX	162	ARG	N-CA-CB	5.19	117.53	110.01
35	LY	503	HIS	ND1-CG-CD2	-5.19	100.91	106.10
1	L0	390	ARG	CA-C-N	5.18	129.30	122.30
1	L0	390	ARG	C-N-CA	5.18	129.30	122.30
3	L2	81	ARG	CA-C-N	5.18	127.09	120.56
3	L2	81	ARG	C-N-CA	5.18	127.09	120.56
12	LB	96	SER	CA-C-N	5.18	127.18	120.44
12	LB	96	SER	C-N-CA	5.18	127.18	120.44
33	LW	428	VAL	CA-C-N	5.18	128.84	121.42
33	LW	428	VAL	C-N-CA	5.18	128.84	121.42
33	LW	441	LEU	CA-C-N	5.18	130.19	122.99
33	LW	441	LEU	C-N-CA	5.18	130.19	122.99
38	Lb	345	LYS	CA-C-N	5.18	127.18	120.44
38	Lb	345	LYS	C-N-CA	5.18	127.18	120.44
45	Li	616	TYR	CA-C-N	5.18	129.06	121.80
45	Li	616	TYR	C-N-CA	5.18	129.06	121.80
46	Lj	99	LEU	CA-C-N	5.18	127.23	120.28
46	Lj	99	LEU	C-N-CA	5.18	127.23	120.28
53	Lq	173	ALA	CA-C-N	5.18	127.18	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	173	ALA	C-N-CA	5.18	127.18	120.44
1	L0	388	HIS	ND1-CG-CD2	-5.18	100.92	106.10
30	LT	13	SER	N-CA-CB	5.18	117.62	109.69
34	LX	154	LEU	CA-C-N	5.18	127.18	120.44
34	LX	154	LEU	C-N-CA	5.18	127.18	120.44
34	LX	172	GLU	CA-C-N	5.18	127.18	120.44
34	LX	172	GLU	C-N-CA	5.18	127.18	120.44
38	Lb	690	GLN	CA-C-N	5.18	127.18	120.44
38	Lb	690	GLN	C-N-CA	5.18	127.18	120.44
38	Lb	844	LEU	CA-C-N	5.18	127.18	120.44
38	Lb	844	LEU	C-N-CA	5.18	127.18	120.44
39	Lc	127	GLU	CA-C-N	5.18	128.19	120.31
39	Lc	127	GLU	C-N-CA	5.18	128.19	120.31
39	Lc	218	ASP	N-CA-CB	5.18	117.52	110.01
44	Lh	705	ALA	CA-C-N	5.18	127.18	120.44
44	Lh	705	ALA	C-N-CA	5.18	127.18	120.44
45	Li	316	LYS	CA-C-N	5.18	127.18	120.44
45	Li	316	LYS	C-N-CA	5.18	127.18	120.44
47	Lk	426	GLU	CA-C-N	5.18	130.25	122.58
47	Lk	426	GLU	C-N-CA	5.18	130.25	122.58
49	Lm	287	ILE	CA-C-N	5.18	130.95	123.13
49	Lm	287	ILE	C-N-CA	5.18	130.95	123.13
52	Lp	650	ARG	CA-C-N	5.18	127.22	120.28
52	Lp	650	ARG	C-N-CA	5.18	127.22	120.28
55	Ls	335	GLY	CA-C-N	5.18	129.76	122.09
55	Ls	335	GLY	C-N-CA	5.18	129.76	122.09
64	UB	365	LEU	CA-C-N	5.18	129.32	121.03
64	UB	365	LEU	C-N-CA	5.18	129.32	121.03
3	L2	187	CYS	CA-C-N	5.18	127.17	120.44
3	L2	187	CYS	C-N-CA	5.18	127.17	120.44
9	L8	191	SER	CA-C-N	5.18	128.19	120.31
9	L8	191	SER	C-N-CA	5.18	128.19	120.31
20	LJ	391	LYS	CA-C-N	5.18	127.65	120.29
20	LJ	391	LYS	C-N-CA	5.18	127.65	120.29
25	LO	50	THR	CA-C-N	5.18	127.56	120.46
25	LO	50	THR	C-N-CA	5.18	127.56	120.46
51	Lo	315	ARG	CA-C-N	5.18	129.36	120.71
51	Lo	315	ARG	C-N-CA	5.18	129.36	120.71
4	L3	619	MET	CA-C-N	5.18	127.09	120.56
4	L3	619	MET	C-N-CA	5.18	127.09	120.56
6	L5	449	TRP	N-CA-CB	5.18	117.58	109.97
20	LJ	249	TYR	CA-C-N	5.18	127.17	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
20	LJ	249	TYR	C-N-CA	5.18	127.17	120.44
22	LL	208	ALA	CA-C-N	5.18	127.17	120.44
22	LL	208	ALA	C-N-CA	5.18	127.17	120.44
22	LL	532	LEU	CA-C-N	5.18	127.64	120.29
22	LL	532	LEU	C-N-CA	5.18	127.64	120.29
43	Lg	164	LEU	CA-C-N	5.18	127.22	120.28
43	Lg	164	LEU	C-N-CA	5.18	127.22	120.28
44	Lh	479	LEU	CA-C-N	5.18	127.17	120.44
44	Lh	479	LEU	C-N-CA	5.18	127.17	120.44
45	Li	364	HIS	ND1-CG-CD2	-5.18	100.92	106.10
45	Li	585	HIS	ND1-CG-CD2	-5.18	100.92	106.10
46	Lj	97	ARG	CA-C-N	5.18	127.17	120.44
46	Lj	97	ARG	C-N-CA	5.18	127.17	120.44
52	Lp	446	ALA	CA-C-N	5.18	127.17	120.44
52	Lp	446	ALA	C-N-CA	5.18	127.17	120.44
56	Lt	247	LEU	CA-C-N	5.18	127.17	120.44
56	Lt	247	LEU	C-N-CA	5.18	127.17	120.44
94	lM	77	A	C2'-C3'-O3'	5.18	117.27	109.50
102	lU	13	U	C3'-C2'-O2'	5.18	118.47	110.70
1	L0	561	LYS	CA-C-N	5.18	127.17	120.44
1	L0	561	LYS	C-N-CA	5.18	127.17	120.44
1	L0	613	LEU	CA-C-N	5.18	127.74	120.28
1	L0	613	LEU	C-N-CA	5.18	127.74	120.28
40	Ld	434	CYS	CA-C-N	5.18	127.17	120.44
40	Ld	434	CYS	C-N-CA	5.18	127.17	120.44
48	Ll	25	SER	CA-C-N	5.18	127.17	120.44
48	Ll	25	SER	C-N-CA	5.18	127.17	120.44
51	Lo	312	PRO	CA-C-N	5.18	128.55	120.68
51	Lo	312	PRO	C-N-CA	5.18	128.55	120.68
56	Lt	69	LYS	CA-C-N	5.18	127.17	120.44
56	Lt	69	LYS	C-N-CA	5.18	127.17	120.44
56	Lt	72	ALA	CA-C-N	5.18	127.17	120.44
56	Lt	72	ALA	C-N-CA	5.18	127.17	120.44
61	Ly	291	ILE	CA-C-N	5.18	130.05	122.39
61	Ly	291	ILE	C-N-CA	5.18	130.05	122.39
61	Ly	535	GLY	CA-C-N	5.18	130.02	122.41
61	Ly	535	GLY	C-N-CA	5.18	130.02	122.41
3	L2	85	SER	CA-C-N	5.18	127.73	120.28
3	L2	85	SER	C-N-CA	5.18	127.73	120.28
22	LL	909	ARG	CA-C-N	5.18	127.17	120.44
22	LL	909	ARG	C-N-CA	5.18	127.17	120.44
23	LM	54	GLN	CA-C-N	5.18	129.61	123.19

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
23	LM	54	GLN	C-N-CA	5.18	129.61	123.19
32	LV	1055	ALA	CA-C-N	5.18	127.17	120.44
32	LV	1055	ALA	C-N-CA	5.18	127.17	120.44
35	LY	388	GLN	CA-C-N	5.18	127.08	120.56
35	LY	388	GLN	C-N-CA	5.18	127.08	120.56
38	Lb	286	HIS	ND1-CG-CD2	-5.18	100.92	106.10
38	Lb	382	ASP	CA-C-N	5.18	127.73	120.28
38	Lb	382	ASP	C-N-CA	5.18	127.73	120.28
38	Lb	817	LEU	CA-C-N	5.18	127.08	120.56
38	Lb	817	LEU	C-N-CA	5.18	127.08	120.56
40	Ld	590	ILE	CA-C-N	5.18	127.08	120.56
40	Ld	590	ILE	C-N-CA	5.18	127.08	120.56
52	Lp	537	SER	CA-C-N	5.18	127.22	120.28
52	Lp	537	SER	C-N-CA	5.18	127.22	120.28
52	Lp	692	ILE	N-CA-CB	5.18	116.25	110.51
53	Lq	615	SER	CA-C-N	5.18	127.17	120.44
53	Lq	615	SER	C-N-CA	5.18	127.17	120.44
54	Lr	101	HIS	ND1-CG-CD2	-5.18	100.92	106.10
56	Lt	106	ARG	CA-C-N	5.18	127.53	120.54
56	Lt	106	ARG	C-N-CA	5.18	127.53	120.54
56	Lt	114	HIS	N-CA-CB	5.18	117.52	110.01
1	L0	306	PHE	CA-C-N	5.17	129.99	121.87
1	L0	306	PHE	C-N-CA	5.17	129.99	121.87
6	L5	476	ARG	CG-CD-NE	5.17	123.38	112.00
13	LC	318	VAL	CA-C-N	5.17	127.17	120.44
13	LC	318	VAL	C-N-CA	5.17	127.17	120.44
20	LJ	312	ARG	CA-C-N	5.17	129.26	120.88
20	LJ	312	ARG	C-N-CA	5.17	129.26	120.88
21	LK	248	LYS	CA-C-N	5.17	127.08	120.56
21	LK	248	LYS	C-N-CA	5.17	127.08	120.56
25	LO	163	HIS	ND1-CG-CD2	-5.17	100.92	106.10
32	LV	480	LEU	CA-C-N	5.17	127.17	120.44
32	LV	480	LEU	C-N-CA	5.17	127.17	120.44
32	LV	596	SER	N-CA-CB	5.17	117.69	109.82
35	LY	333	ARG	N-CA-CB	5.17	117.51	110.01
38	Lb	655	GLN	N-CA-CB	5.17	117.51	110.01
38	Lb	790	CYS	N-CA-CB	5.17	117.51	110.01
47	Lk	530	GLY	CA-C-N	5.17	127.17	120.44
47	Lk	530	GLY	C-N-CA	5.17	127.17	120.44
49	Lm	293	GLY	CA-C-N	5.17	130.85	122.68
49	Lm	293	GLY	C-N-CA	5.17	130.85	122.68
54	Lr	166	TYR	N-CA-CB	5.17	117.51	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	Ls	516	LEU	CA-C-N	5.17	127.17	120.44
55	Ls	516	LEU	C-N-CA	5.17	127.17	120.44
56	Lt	229	GLU	N-CA-CB	5.17	117.51	110.01
56	Lt	260	HIS	ND1-CG-CD2	-5.17	100.93	106.10
61	Ly	381	GLY	CA-C-N	5.17	129.48	120.68
61	Ly	381	GLY	C-N-CA	5.17	129.48	120.68
69	UG	355	PHE	CA-C-N	5.17	128.22	120.87
69	UG	355	PHE	C-N-CA	5.17	128.22	120.87
3	L2	77	ILE	CA-C-N	5.17	127.17	120.44
3	L2	77	ILE	C-N-CA	5.17	127.17	120.44
7	L6	250	LYS	CA-C-N	5.17	127.16	120.44
7	L6	250	LYS	C-N-CA	5.17	127.16	120.44
11	LA	186	HIS	ND1-CG-CD2	-5.17	100.93	106.10
12	LB	78	ASN	CA-C-N	5.17	129.04	121.80
12	LB	78	ASN	C-N-CA	5.17	129.04	121.80
13	LC	287	VAL	CA-C-N	5.17	127.17	120.44
13	LC	287	VAL	C-N-CA	5.17	127.17	120.44
29	LS	31	SER	N-CA-CB	5.17	117.76	110.36
30	LT	79	TYR	N-CA-CB	5.17	117.51	110.01
38	Lb	304	PRO	CA-C-N	5.17	127.48	120.65
38	Lb	304	PRO	C-N-CA	5.17	127.48	120.65
39	Lc	598	GLN	N-CA-CB	5.17	117.51	110.01
41	Le	467	PHE	CA-C-N	5.17	128.90	121.50
41	Le	467	PHE	C-N-CA	5.17	128.90	121.50
64	UB	268	ARG	N-CA-CB	5.17	117.64	110.04
1	L0	605	HIS	ND1-CG-CD2	-5.17	100.93	106.10
2	L1	498	MET	N-CA-CB	5.17	117.51	110.01
20	LJ	274	VAL	CA-C-N	5.17	127.16	120.44
20	LJ	274	VAL	C-N-CA	5.17	127.16	120.44
25	LO	204	PRO	CA-C-N	5.17	127.16	120.44
25	LO	204	PRO	C-N-CA	5.17	127.16	120.44
32	LV	409	GLU	N-CA-CB	5.17	117.51	110.01
32	LV	485	THR	CA-C-N	5.17	127.21	120.28
32	LV	485	THR	C-N-CA	5.17	127.21	120.28
33	LW	469	HIS	CA-C-N	5.17	129.70	122.05
33	LW	469	HIS	C-N-CA	5.17	129.70	122.05
38	Lb	283	TYR	CA-C-N	5.17	128.90	121.50
38	Lb	283	TYR	C-N-CA	5.17	128.90	121.50
38	Lb	312	ARG	N-CA-CB	5.17	117.60	109.69
38	Lb	365	TYR	CA-C-N	5.17	127.16	120.44
38	Lb	365	TYR	C-N-CA	5.17	127.16	120.44
38	Lb	735	GLU	CA-C-N	5.17	127.16	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	735	GLU	C-N-CA	5.17	127.16	120.44
40	Ld	464	GLN	N-CA-CB	5.17	117.51	110.01
44	Lh	736	PRO	CA-C-N	5.17	127.16	120.44
44	Lh	736	PRO	C-N-CA	5.17	127.16	120.44
49	Lm	406	ALA	CA-C-N	5.17	129.47	120.68
49	Lm	406	ALA	C-N-CA	5.17	129.47	120.68
51	Lo	71	PHE	CA-C-N	5.17	127.73	120.28
51	Lo	71	PHE	C-N-CA	5.17	127.73	120.28
51	Lo	238	HIS	CA-C-N	5.17	127.08	120.56
51	Lo	238	HIS	C-N-CA	5.17	127.08	120.56
52	Lp	487	ALA	CA-C-N	5.17	127.16	120.44
52	Lp	487	ALA	C-N-CA	5.17	127.16	120.44
52	Lp	667	TRP	N-CA-CB	5.17	117.80	110.46
54	Lr	137	GLN	N-CA-CB	5.17	117.65	109.94
55	Ls	359	ARG	CG-CD-NE	5.17	123.38	112.00
59	Lw	152	LYS	CA-C-N	5.17	127.16	120.44
59	Lw	152	LYS	C-N-CA	5.17	127.16	120.44
60	Lx	349	HIS	ND1-CG-CD2	-5.17	100.93	106.10
64	UB	370	PHE	CA-C-N	5.17	130.04	122.39
64	UB	370	PHE	C-N-CA	5.17	130.04	122.39
66	UD	183	LYS	CA-C-N	5.17	127.73	120.28
66	UD	183	LYS	C-N-CA	5.17	127.73	120.28
20	LJ	157	GLN	CA-C-N	5.17	127.07	120.56
20	LJ	157	GLN	C-N-CA	5.17	127.07	120.56
28	LR	69	VAL	CA-C-N	5.17	127.16	120.44
28	LR	69	VAL	C-N-CA	5.17	127.16	120.44
40	Ld	344	ARG	CA-CB-CG	5.17	124.44	114.10
40	Ld	460	HIS	CA-C-N	5.17	127.16	120.44
40	Ld	460	HIS	C-N-CA	5.17	127.16	120.44
8	L7	70	ARG	CA-C-N	5.17	127.16	120.44
8	L7	70	ARG	C-N-CA	5.17	127.16	120.44
13	LC	133	ARG	CA-C-N	5.17	127.16	120.44
13	LC	133	ARG	C-N-CA	5.17	127.16	120.44
14	LD	370	GLU	N-CA-CB	5.17	117.50	110.01
17	LG	237	ARG	N-CA-CB	5.17	117.64	109.83
20	LJ	76	HIS	ND1-CG-CD2	-5.17	100.93	106.10
21	LK	164	PRO	CA-C-N	5.17	127.16	120.44
21	LK	164	PRO	C-N-CA	5.17	127.16	120.44
24	LN	268	HIS	ND1-CG-CD2	-5.17	100.93	106.10
32	LV	606	SER	N-CA-CB	5.17	117.64	109.94
36	LZ	44	PRO	CA-C-N	5.17	129.52	122.34
36	LZ	44	PRO	C-N-CA	5.17	129.52	122.34

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	La	62	GLY	CA-C-N	5.17	129.74	122.09
37	La	62	GLY	C-N-CA	5.17	129.74	122.09
38	Lb	331	LYS	CA-C-N	5.17	129.71	121.34
38	Lb	331	LYS	C-N-CA	5.17	129.71	121.34
38	Lb	864	ARG	CA-C-N	5.17	127.16	120.44
38	Lb	864	ARG	C-N-CA	5.17	127.16	120.44
40	Ld	492	GLN	CA-C-N	5.17	127.16	120.44
40	Ld	492	GLN	C-N-CA	5.17	127.16	120.44
41	Le	627	GLU	CA-C-N	5.17	127.21	120.28
41	Le	627	GLU	C-N-CA	5.17	127.21	120.28
42	Lf	190	HIS	ND1-CG-CD2	-5.17	100.93	106.10
49	Lm	418	ARG	CA-C-N	5.17	127.16	120.44
49	Lm	418	ARG	C-N-CA	5.17	127.16	120.44
52	Lp	510	ILE	N-CA-CB	5.17	116.60	110.55
52	Lp	517	ARG	CA-C-N	5.17	130.66	122.60
52	Lp	517	ARG	C-N-CA	5.17	130.66	122.60
59	Lw	114	HIS	ND1-CG-CD2	-5.17	100.93	106.10
69	UG	392	ILE	N-CA-CB	5.17	116.60	110.55
9	L8	150	TRP	CA-C-N	5.17	127.16	120.44
9	L8	150	TRP	C-N-CA	5.17	127.16	120.44
11	LA	81	LEU	CA-C-N	5.17	127.16	120.44
11	LA	81	LEU	C-N-CA	5.17	127.16	120.44
12	LB	71	ALA	CA-C-N	5.17	127.16	120.44
12	LB	71	ALA	C-N-CA	5.17	127.16	120.44
23	LM	116	PRO	CA-C-N	5.17	130.47	122.26
23	LM	116	PRO	C-N-CA	5.17	130.47	122.26
24	LN	301	LEU	N-CA-CB	5.17	117.50	110.01
29	LS	53	TYR	N-CA-CB	5.17	117.50	110.01
32	LV	798	ARG	CA-C-N	5.17	127.20	120.28
32	LV	798	ARG	C-N-CA	5.17	127.20	120.28
37	La	39	ARG	CA-C-N	5.17	130.17	122.99
37	La	39	ARG	C-N-CA	5.17	130.17	122.99
38	Lb	729	SER	CA-C-N	5.17	127.07	120.56
38	Lb	729	SER	C-N-CA	5.17	127.07	120.56
38	Lb	843	SER	CA-C-N	5.17	127.16	120.44
38	Lb	843	SER	C-N-CA	5.17	127.16	120.44
42	Lf	357	GLY	CA-C-N	5.17	127.16	120.44
42	Lf	357	GLY	C-N-CA	5.17	127.16	120.44
50	Ln	137	MET	N-CA-CB	5.17	117.50	110.01
52	Lp	604	ARG	CG-CD-NE	5.17	123.37	112.00
53	Lq	612	ASP	CA-C-N	5.17	127.54	120.46
53	Lq	612	ASP	C-N-CA	5.17	127.54	120.46

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
67	UE	143	VAL	CA-C-N	5.17	127.20	120.28
67	UE	143	VAL	C-N-CA	5.17	127.20	120.28
13	LC	240	HIS	ND1-CG-CD2	-5.17	100.94	106.10
21	LK	261	GLN	CA-C-N	5.17	130.05	121.99
21	LK	261	GLN	C-N-CA	5.17	130.05	121.99
53	Lq	668	TRP	CA-C-N	5.17	130.31	122.56
53	Lq	668	TRP	C-N-CA	5.17	130.31	122.56
1	L0	623	TYR	CA-C-N	5.16	128.88	121.50
1	L0	623	TYR	C-N-CA	5.16	128.88	121.50
3	L2	13	PRO	CA-C-N	5.16	127.92	121.83
3	L2	13	PRO	C-N-CA	5.16	127.92	121.83
4	L3	621	GLY	CA-C-N	5.16	129.46	120.68
4	L3	621	GLY	C-N-CA	5.16	129.46	120.68
18	LH	254	ASP	CA-C-N	5.16	127.15	120.44
18	LH	254	ASP	C-N-CA	5.16	127.15	120.44
20	LJ	6	PRO	CA-C-N	5.16	127.15	120.44
20	LJ	6	PRO	C-N-CA	5.16	127.15	120.44
22	LL	316	LEU	CA-C-N	5.16	130.27	122.99
22	LL	316	LEU	C-N-CA	5.16	130.27	122.99
27	LQ	374	GLN	CA-C-N	5.16	127.07	120.56
27	LQ	374	GLN	C-N-CA	5.16	127.07	120.56
32	LV	1054	GLN	N-CA-CB	5.16	117.50	110.01
33	LW	467	HIS	N-CA-CB	5.16	117.50	110.01
37	La	76	ARG	CA-C-N	5.16	129.05	120.94
37	La	76	ARG	C-N-CA	5.16	129.05	120.94
38	Lb	459	ASP	N-CA-CB	5.16	117.50	110.01
39	Lc	456	ILE	CA-C-N	5.16	127.07	120.56
39	Lc	456	ILE	C-N-CA	5.16	127.07	120.56
39	Lc	521	ILE	N-CA-CB	5.16	116.59	110.55
41	Le	554	ARG	N-CA-CB	5.16	117.64	109.94
42	Lf	361	MET	CA-C-N	5.16	127.15	120.44
42	Lf	361	MET	C-N-CA	5.16	127.15	120.44
45	Li	523	ARG	CA-CB-CG	5.16	124.43	114.10
48	Ll	11	LEU	N-CA-CB	5.16	117.67	109.51
55	Ls	401	SER	CA-C-N	5.16	129.88	121.98
55	Ls	401	SER	C-N-CA	5.16	129.88	121.98
57	Lu	272	LEU	N-CA-CB	5.16	117.50	110.01
5	L4	205	CYS	N-CA-CB	5.16	117.62	109.83
9	L8	75	SER	CA-C-N	5.16	127.15	120.44
9	L8	75	SER	C-N-CA	5.16	127.15	120.44
38	Lb	873	PRO	CA-C-N	5.16	127.71	120.28
38	Lb	873	PRO	C-N-CA	5.16	127.71	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	681	ALA	CA-C-N	5.16	127.97	120.79
53	Lq	681	ALA	C-N-CA	5.16	127.97	120.79
56	Lt	240	SER	CA-C-N	5.16	127.46	120.65
56	Lt	240	SER	C-N-CA	5.16	127.46	120.65
65	UC	294	LYS	CA-C-N	5.16	128.54	120.75
65	UC	294	LYS	C-N-CA	5.16	128.54	120.75
65	UC	295	HIS	ND1-CG-CD2	-5.16	100.94	106.10
4	L3	661	LEU	CA-C-N	5.16	129.73	122.09
4	L3	661	LEU	C-N-CA	5.16	129.73	122.09
18	LH	256	PHE	N-CA-CB	5.16	117.49	110.01
29	LS	10	LYS	N-CA-CB	5.16	117.49	110.01
30	LT	80	ILE	CA-C-N	5.16	128.15	120.31
30	LT	80	ILE	C-N-CA	5.16	128.15	120.31
39	Lc	359	ARG	N-CA-CB	5.16	117.49	110.01
49	Lm	263	LYS	CA-C-N	5.16	129.90	123.14
49	Lm	263	LYS	C-N-CA	5.16	129.90	123.14
68	UF	54	SER	CA-C-N	5.16	129.29	121.03
68	UF	54	SER	C-N-CA	5.16	129.29	121.03
69	UG	314	ILE	N-CA-CB	5.16	117.04	110.13
3	L2	185	LEU	CA-C-N	5.16	127.15	120.44
3	L2	185	LEU	C-N-CA	5.16	127.15	120.44
25	LO	139	ASP	N-CA-CB	5.16	117.79	110.46
32	LV	957	ASP	CA-C-N	5.16	127.15	120.44
32	LV	957	ASP	C-N-CA	5.16	127.15	120.44
35	LY	475	HIS	ND1-CG-CD2	-5.16	100.94	106.10
38	Lb	505	ARG	CA-C-N	5.16	127.15	120.44
38	Lb	505	ARG	C-N-CA	5.16	127.15	120.44
53	Lq	183	ALA	CA-C-N	5.16	129.84	122.21
53	Lq	183	ALA	C-N-CA	5.16	129.84	122.21
53	Lq	480	SER	CA-C-N	5.16	127.14	120.44
53	Lq	480	SER	C-N-CA	5.16	127.14	120.44
57	Lu	279	ARG	CB-CG-CD	5.16	123.16	111.30
64	UB	226	SER	N-CA-CB	5.16	118.08	109.98
64	UB	346	ARG	N-CA-CB	5.16	117.62	109.83
95	lN	38	A	C4'-C3'-O3'	5.16	117.14	109.40
14	LD	501	THR	CA-C-N	5.16	127.14	120.44
14	LD	501	THR	C-N-CA	5.16	127.14	120.44
20	LJ	275	ARG	CA-C-N	5.16	127.19	120.28
20	LJ	275	ARG	C-N-CA	5.16	127.19	120.28
23	LM	121	SER	N-CA-CB	5.16	117.60	110.17
40	Ld	515	PRO	CA-C-N	5.16	127.14	120.44
40	Ld	515	PRO	C-N-CA	5.16	127.14	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ld	594	ARG	N-CA-CB	5.16	117.49	110.01
52	Lp	476	ILE	N-CA-CB	5.16	116.65	110.31
56	Lt	112	ASP	CA-C-N	5.16	127.50	120.54
56	Lt	112	ASP	C-N-CA	5.16	127.50	120.54
1	L0	305	ILE	CA-C-N	5.16	128.88	121.71
1	L0	305	ILE	C-N-CA	5.16	128.88	121.71
11	LA	86	VAL	CA-C-N	5.16	127.14	120.44
11	LA	86	VAL	C-N-CA	5.16	127.14	120.44
13	LC	248	ARG	CA-C-N	5.16	130.82	122.68
13	LC	248	ARG	C-N-CA	5.16	130.82	122.68
15	LE	419	PHE	CA-CB-CG	5.16	118.95	113.80
32	LV	486	ARG	N-CA-CB	5.16	117.70	110.12
32	LV	1053	LEU	CA-C-N	5.16	127.14	120.44
32	LV	1053	LEU	C-N-CA	5.16	127.14	120.44
33	LW	430	CYS	CA-C-N	5.16	130.26	122.99
33	LW	430	CYS	C-N-CA	5.16	130.26	122.99
35	LY	380	TYR	CA-C-N	5.16	127.14	120.44
35	LY	380	TYR	C-N-CA	5.16	127.14	120.44
38	Lb	756	GLU	N-CA-CB	5.16	117.48	110.01
40	Ld	436	ASP	CA-C-N	5.16	127.14	120.44
40	Ld	436	ASP	C-N-CA	5.16	127.14	120.44
41	Le	472	LEU	CA-C-N	5.16	127.14	120.44
41	Le	472	LEU	C-N-CA	5.16	127.14	120.44
41	Le	569	LEU	CA-C-N	5.16	127.19	120.28
41	Le	569	LEU	C-N-CA	5.16	127.19	120.28
60	Lx	293	TRP	N-CA-CB	5.16	117.61	109.83
71	UI	391	ARG	N-CA-CB	5.16	117.49	110.01
12	LB	20	ARG	CB-CG-CD	5.15	123.15	111.30
23	LM	4	VAL	CA-C-N	5.15	129.31	121.12
23	LM	4	VAL	C-N-CA	5.15	129.31	121.12
32	LV	402	ARG	CA-C-N	5.15	127.14	120.44
32	LV	402	ARG	C-N-CA	5.15	127.14	120.44
32	LV	1079	THR	CA-C-N	5.15	127.14	120.44
32	LV	1079	THR	C-N-CA	5.15	127.14	120.44
38	Lb	821	LEU	CA-C-N	5.15	127.14	120.44
38	Lb	821	LEU	C-N-CA	5.15	127.14	120.44
39	Lc	459	ALA	CA-C-N	5.15	127.61	120.29
39	Lc	459	ALA	C-N-CA	5.15	127.61	120.29
48	Ll	84	GLN	CA-C-N	5.15	127.05	120.56
48	Ll	84	GLN	C-N-CA	5.15	127.05	120.56
48	Ll	135	ARG	N-CA-CB	5.15	117.84	110.06
2	L1	498	MET	CA-C-N	5.15	127.19	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	L1	498	MET	C-N-CA	5.15	127.19	120.28
6	L5	464	SER	N-CA-CB	5.15	117.84	110.06
12	LB	27	ARG	CA-CB-CG	5.15	124.41	114.10
32	LV	1070	ASN	CA-C-N	5.15	127.14	120.44
32	LV	1070	ASN	C-N-CA	5.15	127.14	120.44
35	LY	470	MET	CA-C-N	5.15	127.14	120.44
35	LY	470	MET	C-N-CA	5.15	127.14	120.44
38	Lb	291	LYS	CA-C-N	5.15	129.21	120.86
38	Lb	291	LYS	C-N-CA	5.15	129.21	120.86
38	Lb	630	GLN	CA-C-N	5.15	127.14	120.44
38	Lb	630	GLN	C-N-CA	5.15	127.14	120.44
38	Lb	671	PHE	N-CA-CB	5.15	117.48	110.01
40	Ld	623	PHE	N-CA-CB	5.15	117.48	110.01
47	Lk	474	ARG	CA-C-N	5.15	127.14	120.44
47	Lk	474	ARG	C-N-CA	5.15	127.14	120.44
53	Lq	685	GLN	CA-C-N	5.15	127.19	120.28
53	Lq	685	GLN	C-N-CA	5.15	127.19	120.28
61	Ly	324	LYS	N-CA-CB	5.15	117.58	109.69
64	UB	338	ASN	CA-C-N	5.15	127.19	120.28
64	UB	338	ASN	C-N-CA	5.15	127.19	120.28
68	UF	60	LEU	N-CA-CB	5.15	117.61	109.83
70	UH	264	ASP	N-CA-CB	5.15	117.48	110.01
73	l1	7	G	C4'-C3'-O3'	5.15	117.13	109.40
91	lJ	278	A	N9-C1'-C2'	5.15	119.73	112.00
4	L3	700	TRP	CA-C-N	5.15	129.65	121.72
4	L3	700	TRP	C-N-CA	5.15	129.65	121.72
5	L4	325	ARG	CA-CB-CG	5.15	124.40	114.10
11	LA	83	ALA	CA-C-N	5.15	127.14	120.44
11	LA	83	ALA	C-N-CA	5.15	127.14	120.44
12	LB	62	GLU	N-CA-CB	5.15	117.48	110.01
13	LC	551	LEU	N-CA-CB	5.15	117.48	110.01
20	LJ	373	ASN	CA-C-N	5.15	127.61	120.29
20	LJ	373	ASN	C-N-CA	5.15	127.61	120.29
37	La	53	ILE	CA-C-N	5.15	127.14	120.44
37	La	53	ILE	C-N-CA	5.15	127.14	120.44
46	Lj	8	TYR	CA-C-N	5.15	127.14	120.44
46	Lj	8	TYR	C-N-CA	5.15	127.14	120.44
1	L0	321	THR	CA-C-N	5.15	127.18	120.28
1	L0	321	THR	C-N-CA	5.15	127.18	120.28
4	L3	642	ARG	N-CA-CB	5.15	117.54	109.97
10	L9	458	GLN	CA-C-N	5.15	129.22	120.88
10	L9	458	GLN	C-N-CA	5.15	129.22	120.88

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	LL	910	LEU	N-CA-CB	5.15	117.47	110.01
38	Lb	334	LEU	CA-C-N	5.15	127.05	120.56
38	Lb	334	LEU	C-N-CA	5.15	127.05	120.56
49	Lm	428	GLN	CA-C-N	5.15	129.67	122.05
49	Lm	428	GLN	C-N-CA	5.15	129.67	122.05
53	Lq	691	TYR	N-CA-CB	5.15	117.48	110.01
54	Lr	8	TRP	N-CA-CB	5.15	117.58	110.17
20	LJ	399	PRO	CA-C-N	5.15	127.13	120.44
20	LJ	399	PRO	C-N-CA	5.15	127.13	120.44
23	LM	128	SER	N-CA-CB	5.15	117.47	110.01
24	LN	269	SER	CA-C-N	5.15	127.18	120.28
24	LN	269	SER	C-N-CA	5.15	127.18	120.28
28	LR	70	GLN	CA-C-N	5.15	127.18	120.28
28	LR	70	GLN	C-N-CA	5.15	127.18	120.28
33	LW	395	ALA	CA-C-N	5.15	127.13	120.44
33	LW	395	ALA	C-N-CA	5.15	127.13	120.44
38	Lb	421	LEU	CA-C-N	5.15	127.69	120.28
38	Lb	421	LEU	C-N-CA	5.15	127.69	120.28
40	Ld	350	SER	CA-C-N	5.15	129.00	121.80
40	Ld	350	SER	C-N-CA	5.15	129.00	121.80
45	Li	624	THR	CA-C-N	5.15	127.13	120.44
45	Li	624	THR	C-N-CA	5.15	127.13	120.44
47	Lk	541	LYS	CA-C-N	5.15	127.13	120.44
47	Lk	541	LYS	C-N-CA	5.15	127.13	120.44
53	Lq	555	LYS	N-CA-CB	5.15	117.47	110.01
57	Lu	297	SER	N-CA-CB	5.15	117.69	110.12
69	UG	262	ARG	CA-C-N	5.15	130.66	122.94
69	UG	262	ARG	C-N-CA	5.15	130.66	122.94
1	L0	544	ASN	N-CA-CB	5.15	117.47	110.01
14	LD	361	TYR	CA-C-N	5.15	127.13	120.44
14	LD	361	TYR	C-N-CA	5.15	127.13	120.44
14	LD	474	THR	CA-C-N	5.15	129.45	122.19
14	LD	474	THR	C-N-CA	5.15	129.45	122.19
20	LJ	250	GLN	CA-C-N	5.15	127.13	120.44
20	LJ	250	GLN	C-N-CA	5.15	127.13	120.44
22	LL	342	ARG	CG-CD-NE	5.15	123.32	112.00
47	Lk	549	GLU	CA-C-N	5.15	127.17	120.28
47	Lk	549	GLU	C-N-CA	5.15	127.17	120.28
53	Lq	245	PHE	CA-C-N	5.15	127.13	120.44
53	Lq	245	PHE	C-N-CA	5.15	127.13	120.44
57	Lu	269	ARG	CA-C-N	5.15	127.13	120.44
57	Lu	269	ARG	C-N-CA	5.15	127.13	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	L0	422	ALA	CA-C-N	5.14	127.13	120.44
1	L0	422	ALA	C-N-CA	5.14	127.13	120.44
2	L1	511	LEU	CA-C-N	5.14	127.17	120.28
2	L1	511	LEU	C-N-CA	5.14	127.17	120.28
10	L9	15	LEU	N-CA-CB	5.14	117.56	109.69
20	LJ	136	ALA	CA-C-N	5.14	127.13	120.44
20	LJ	136	ALA	C-N-CA	5.14	127.13	120.44
20	LJ	260	ARG	CG-CD-NE	5.14	123.32	112.00
20	LJ	281	LEU	N-CA-CB	5.14	117.47	110.01
37	La	92	ARG	CB-CG-CD	5.14	123.13	111.30
38	Lb	280	PHE	CA-C-N	5.14	127.17	120.28
38	Lb	280	PHE	C-N-CA	5.14	127.17	120.28
39	Lc	507	ALA	CA-C-N	5.14	128.47	120.60
39	Lc	507	ALA	C-N-CA	5.14	128.47	120.60
43	Lg	92	MET	CA-C-N	5.14	128.15	120.95
43	Lg	92	MET	C-N-CA	5.14	128.15	120.95
44	Lh	574	THR	CA-C-N	5.14	127.13	120.44
44	Lh	574	THR	C-N-CA	5.14	127.13	120.44
44	Lh	680	LYS	CA-C-N	5.14	130.73	122.14
44	Lh	680	LYS	C-N-CA	5.14	130.73	122.14
51	Lo	227	LEU	CA-C-N	5.14	127.13	120.44
51	Lo	227	LEU	C-N-CA	5.14	127.13	120.44
52	Lp	652	ARG	N-CA-CB	5.14	117.47	110.01
53	Lq	133	PRO	CA-C-N	5.14	127.17	120.28
53	Lq	133	PRO	C-N-CA	5.14	127.17	120.28
13	LC	317	ALA	CA-C-N	5.14	127.04	120.56
13	LC	317	ALA	C-N-CA	5.14	127.04	120.56
21	LK	169	ARG	N-CA-CB	5.14	117.47	110.01
27	LQ	410	TRP	CA-C-N	5.14	127.17	120.28
27	LQ	410	TRP	C-N-CA	5.14	127.17	120.28
36	LZ	41	PRO	CA-C-N	5.14	128.17	120.87
36	LZ	41	PRO	C-N-CA	5.14	128.17	120.87
40	Ld	359	ARG	CA-C-N	5.14	127.04	120.56
40	Ld	359	ARG	C-N-CA	5.14	127.04	120.56
44	Lh	403	PRO	CA-C-N	5.14	127.12	120.44
44	Lh	403	PRO	C-N-CA	5.14	127.12	120.44
48	Ll	83	GLY	CA-C-N	5.14	127.17	120.28
48	Ll	83	GLY	C-N-CA	5.14	127.17	120.28
48	Ll	116	ILE	CA-C-N	5.14	127.13	120.44
48	Ll	116	ILE	C-N-CA	5.14	127.13	120.44
61	Ly	329	PHE	N-CA-CB	5.14	117.45	109.48
3	L2	81	ARG	CG-CD-NE	5.14	123.31	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	LD	500	SER	CA-C-N	5.14	127.12	120.44
14	LD	500	SER	C-N-CA	5.14	127.12	120.44
20	LJ	216	VAL	N-CA-CB	5.14	116.71	110.95
35	LY	392	ALA	CA-C-N	5.14	127.04	120.56
35	LY	392	ALA	C-N-CA	5.14	127.04	120.56
38	Lb	727	ARG	CA-C-N	5.14	127.12	120.44
38	Lb	727	ARG	C-N-CA	5.14	127.12	120.44
44	Lh	563	TYR	N-CA-CB	5.14	117.46	110.01
46	Lj	11	VAL	CA-C-N	5.14	127.12	120.44
46	Lj	11	VAL	C-N-CA	5.14	127.12	120.44
52	Lp	694	SER	N-CA-CB	5.14	117.47	110.01
54	Lr	5	LEU	CA-C-N	5.14	127.68	120.28
54	Lr	5	LEU	C-N-CA	5.14	127.68	120.28
55	Ls	573	GLU	N-CA-CB	5.14	117.46	110.01
2	L1	438	HIS	ND1-CG-CD2	-5.14	100.96	106.10
4	L3	647	GLY	CA-C-N	5.14	129.30	120.72
4	L3	647	GLY	C-N-CA	5.14	129.30	120.72
5	L4	589	GLN	N-CA-CB	5.14	117.46	110.01
13	LC	315	ALA	CA-C-N	5.14	127.12	120.44
13	LC	315	ALA	C-N-CA	5.14	127.12	120.44
20	LJ	253	PHE	N-CA-CB	5.14	117.46	110.01
25	LO	133	ARG	CG-CD-NE	5.14	123.31	112.00
37	La	79	ARG	CG-CD-NE	5.14	123.31	112.00
40	Ld	459	ALA	CA-C-N	5.14	127.43	120.44
40	Ld	459	ALA	C-N-CA	5.14	127.43	120.44
46	Lj	101	SER	CA-C-N	5.14	127.17	120.28
46	Lj	101	SER	C-N-CA	5.14	127.17	120.28
48	Ll	88	ILE	CA-C-N	5.14	127.12	120.44
48	Ll	88	ILE	C-N-CA	5.14	127.12	120.44
51	Lo	145	PHE	CA-C-N	5.14	127.12	120.44
51	Lo	145	PHE	C-N-CA	5.14	127.12	120.44
52	Lp	586	SER	CA-C-N	5.14	130.00	122.39
52	Lp	586	SER	C-N-CA	5.14	130.00	122.39
61	Ly	384	ARG	CG-CD-NE	5.14	123.31	112.00
68	UF	20	TYR	N-CA-CB	5.14	117.46	110.01
81	l9	43	C	C4'-C3'-O3'	5.14	117.11	109.40
9	L8	138	ALA	CA-C-N	5.14	128.49	120.68
9	L8	138	ALA	C-N-CA	5.14	128.49	120.68
22	LL	148	HIS	ND1-CG-CD2	-5.14	100.96	106.10
40	Ld	517	TRP	CA-C-N	5.14	127.12	120.44
40	Ld	517	TRP	C-N-CA	5.14	127.12	120.44
55	Ls	385	ARG	CA-C-N	5.14	127.17	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	Ls	385	ARG	C-N-CA	5.14	127.17	120.28
9	L8	160	ARG	N-CA-CB	5.14	117.46	110.01
10	L9	5	GLU	CA-C-N	5.14	127.12	120.44
10	L9	5	GLU	C-N-CA	5.14	127.12	120.44
13	LC	136	ILE	CA-C-N	5.14	127.12	120.44
13	LC	136	ILE	C-N-CA	5.14	127.12	120.44
14	LD	587	LEU	N-CA-CB	5.14	117.46	110.01
23	LM	110	CYS	N-CA-CB	5.14	117.46	110.01
27	LQ	365	GLY	N-CA-C	5.14	119.09	110.56
32	LV	469	THR	CA-C-N	5.14	127.53	120.39
32	LV	469	THR	C-N-CA	5.14	127.53	120.39
37	La	154	GLU	N-CA-CB	5.14	117.55	109.69
38	Lb	896	PRO	CA-C-N	5.14	127.68	120.28
38	Lb	896	PRO	C-N-CA	5.14	127.68	120.28
39	Lc	536	GLY	CA-C-N	5.14	127.12	120.44
39	Lc	536	GLY	C-N-CA	5.14	127.12	120.44
40	Ld	593	ALA	CA-C-N	5.14	127.12	120.44
40	Ld	593	ALA	C-N-CA	5.14	127.12	120.44
43	Lg	142	PHE	N-CA-CB	5.14	117.46	110.01
52	Lp	385	SER	N-CA-CB	5.14	117.50	109.85
52	Lp	648	ARG	CD-NE-CZ	5.14	131.59	124.40
55	Ls	367	ARG	CA-C-N	5.14	128.00	120.71
55	Ls	367	ARG	C-N-CA	5.14	128.00	120.71
56	Lt	71	ARG	N-CA-CB	5.14	117.46	110.01
57	Lu	304	TRP	CA-C-N	5.14	127.12	120.44
57	Lu	304	TRP	C-N-CA	5.14	127.12	120.44
61	Ly	334	ASP	CA-C-N	5.14	127.16	120.28
61	Ly	334	ASP	C-N-CA	5.14	127.16	120.28
68	UF	11	HIS	CA-C-N	5.14	127.12	120.44
68	UF	11	HIS	C-N-CA	5.14	127.12	120.44
1	L0	289	ILE	CA-C-N	5.13	130.92	123.12
1	L0	289	ILE	C-N-CA	5.13	130.92	123.12
4	L3	617	THR	CA-C-N	5.13	131.05	122.73
4	L3	617	THR	C-N-CA	5.13	131.05	122.73
4	L3	730	ASP	CA-C-N	5.13	127.49	120.46
4	L3	730	ASP	C-N-CA	5.13	127.49	120.46
8	L7	12	TRP	CA-C-N	5.13	128.37	120.82
8	L7	12	TRP	C-N-CA	5.13	128.37	120.82
9	L8	166	HIS	CA-C-N	5.13	127.67	120.28
9	L8	166	HIS	C-N-CA	5.13	127.67	120.28
23	LM	52	PRO	CA-C-N	5.13	130.93	123.12
23	LM	52	PRO	C-N-CA	5.13	130.93	123.12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	LQ	382	LEU	N-CA-CB	5.13	117.45	110.01
35	LY	528	ASP	N-CA-CB	5.13	117.45	110.01
38	Lb	631	GLU	CA-C-N	5.13	127.12	120.44
38	Lb	631	GLU	C-N-CA	5.13	127.12	120.44
41	Le	550	ARG	CA-CB-CG	5.13	124.37	114.10
44	Lh	525	CYS	N-CA-CB	5.13	117.91	109.90
53	Lq	556	ARG	CA-C-N	5.13	127.58	120.29
53	Lq	556	ARG	C-N-CA	5.13	127.58	120.29
61	Ly	333	ARG	CA-C-N	5.13	127.11	120.44
61	Ly	333	ARG	C-N-CA	5.13	127.11	120.44
63	UA	243	ARG	CA-C-N	5.13	127.16	120.28
63	UA	243	ARG	C-N-CA	5.13	127.16	120.28
69	UG	365	ALA	CA-C-N	5.13	127.47	120.54
69	UG	365	ALA	C-N-CA	5.13	127.47	120.54
1	L0	577	LEU	N-CA-CB	5.13	117.45	110.01
5	L4	579	VAL	CA-C-N	5.13	127.11	120.44
5	L4	579	VAL	C-N-CA	5.13	127.11	120.44
20	LJ	241	ALA	CA-C-N	5.13	127.03	120.56
20	LJ	241	ALA	C-N-CA	5.13	127.03	120.56
23	LM	105	TYR	N-CA-CB	5.13	117.45	110.01
32	LV	744	ASP	CA-CB-CG	5.13	117.73	112.60
38	Lb	600	LEU	N-CA-CB	5.13	117.45	110.01
45	Li	284	THR	CA-C-N	5.13	127.11	120.44
45	Li	284	THR	C-N-CA	5.13	127.11	120.44
49	Lm	328	ASP	CA-C-N	5.13	127.67	120.28
49	Lm	328	ASP	C-N-CA	5.13	127.67	120.28
51	Lo	210	PHE	N-CA-CB	5.13	117.45	110.01
55	Ls	366	LYS	N-CA-CB	5.13	117.58	109.83
64	UB	293	HIS	CA-C-N	5.13	128.88	120.51
64	UB	293	HIS	C-N-CA	5.13	128.88	120.51
67	UE	153	SER	CA-C-N	5.13	130.63	122.62
67	UE	153	SER	C-N-CA	5.13	130.63	122.62
11	LA	85	VAL	CA-C-N	5.13	127.03	120.56
11	LA	85	VAL	C-N-CA	5.13	127.03	120.56
13	LC	135	LEU	CA-C-N	5.13	127.03	120.56
13	LC	135	LEU	C-N-CA	5.13	127.03	120.56
13	LC	463	ALA	CA-C-N	5.13	129.25	121.65
13	LC	463	ALA	C-N-CA	5.13	129.25	121.65
13	LC	479	GLU	N-CA-CB	5.13	117.45	110.01
13	LC	569	PRO	CA-C-N	5.13	127.03	120.56
13	LC	569	PRO	C-N-CA	5.13	127.03	120.56
18	LH	258	LEU	CA-C-N	5.13	127.11	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
18	LH	258	LEU	C-N-CA	5.13	127.11	120.44
37	La	99	LYS	N-CA-CB	5.13	117.68	110.24
38	Lb	492	LEU	CA-C-N	5.13	127.11	120.44
38	Lb	492	LEU	C-N-CA	5.13	127.11	120.44
39	Lc	264	LEU	N-CA-CB	5.13	117.45	110.01
40	Ld	432	ARG	CA-C-N	5.13	127.16	120.28
40	Ld	432	ARG	C-N-CA	5.13	127.16	120.28
40	Ld	592	LYS	CA-C-N	5.13	127.11	120.44
40	Ld	592	LYS	C-N-CA	5.13	127.11	120.44
41	Le	420	HIS	N-CA-CB	5.13	117.45	110.01
49	Lm	418	ARG	N-CA-CB	5.13	117.45	110.01
52	Lp	557	ARG	CB-CG-CD	5.13	123.10	111.30
63	UA	250	ILE	CA-C-N	5.13	127.11	120.44
63	UA	250	ILE	C-N-CA	5.13	127.11	120.44
5	L4	401	GLU	N-CA-CB	5.13	117.45	110.01
5	L4	582	GLU	CA-C-N	5.13	127.11	120.44
5	L4	582	GLU	C-N-CA	5.13	127.11	120.44
20	LJ	3	ILE	CA-C-N	5.13	130.87	122.81
20	LJ	3	ILE	C-N-CA	5.13	130.87	122.81
26	LP	79	ALA	CA-C-N	5.13	127.11	120.44
26	LP	79	ALA	C-N-CA	5.13	127.11	120.44
29	LS	182	LYS	N-CA-CB	5.13	117.51	109.97
40	Ld	416	ILE	CA-C-N	5.13	127.15	120.28
40	Ld	416	ILE	C-N-CA	5.13	127.15	120.28
43	Lg	28	LYS	N-CA-CB	5.13	117.61	109.71
44	Lh	478	ARG	CA-C-N	5.13	127.11	120.44
44	Lh	478	ARG	C-N-CA	5.13	127.11	120.44
67	UE	143	VAL	N-CA-CB	5.13	116.55	110.55
3	L2	36	SER	CA-C-N	5.13	129.24	122.42
3	L2	36	SER	C-N-CA	5.13	129.24	122.42
5	L4	281	GLN	CA-C-N	5.13	127.11	120.44
5	L4	281	GLN	C-N-CA	5.13	127.11	120.44
13	LC	347	ALA	CA-C-N	5.13	129.27	120.71
13	LC	347	ALA	C-N-CA	5.13	129.27	120.71
14	LD	582	ILE	CA-C-N	5.13	129.24	121.03
14	LD	582	ILE	C-N-CA	5.13	129.24	121.03
15	LE	375	MET	CA-C-N	5.13	129.77	122.08
15	LE	375	MET	C-N-CA	5.13	129.77	122.08
18	LH	247	VAL	N-CA-CB	5.13	116.82	110.05
20	LJ	369	ARG	CA-C-N	5.13	129.92	123.10
20	LJ	369	ARG	C-N-CA	5.13	129.92	123.10
25	LO	54	GLN	N-CA-CB	5.13	117.45	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
25	LO	131	HIS	N-CA-CB	5.13	117.58	109.83
32	LV	1052	SER	CA-C-N	5.13	127.11	120.44
32	LV	1052	SER	C-N-CA	5.13	127.11	120.44
38	Lb	753	ARG	CG-CD-NE	5.13	123.28	112.00
41	Le	472	LEU	N-CA-CB	5.13	117.66	110.12
43	Lg	189	PRO	CA-C-N	5.13	127.57	120.29
43	Lg	189	PRO	C-N-CA	5.13	127.57	120.29
49	Lm	276	LYS	N-CA-CB	5.13	117.45	110.01
51	Lo	293	GLN	CA-C-N	5.13	127.52	120.39
51	Lo	293	GLN	C-N-CA	5.13	127.52	120.39
56	Lt	59	GLU	CA-C-N	5.13	127.11	120.44
56	Lt	59	GLU	C-N-CA	5.13	127.11	120.44
20	LJ	256	ALA	CA-C-N	5.13	127.02	120.56
20	LJ	256	ALA	C-N-CA	5.13	127.02	120.56
22	LL	301	VAL	CA-C-N	5.13	127.15	120.28
22	LL	301	VAL	C-N-CA	5.13	127.15	120.28
23	LM	131	GLY	CA-C-N	5.13	127.11	120.44
23	LM	131	GLY	C-N-CA	5.13	127.11	120.44
23	LM	133	ALA	CA-C-N	5.13	127.10	120.44
23	LM	133	ALA	C-N-CA	5.13	127.10	120.44
32	LV	514	SER	CA-C-N	5.13	127.10	120.44
32	LV	514	SER	C-N-CA	5.13	127.10	120.44
32	LV	1063	ARG	CG-CD-NE	5.13	123.28	112.00
32	LV	1080	ARG	CG-CD-NE	5.13	123.28	112.00
33	LW	471	ARG	CA-C-N	5.13	130.60	122.60
33	LW	471	ARG	C-N-CA	5.13	130.60	122.60
38	Lb	710	LEU	N-CA-CB	5.13	117.44	110.01
39	Lc	223	CYS	N-CA-CB	5.13	117.44	110.01
39	Lc	627	LEU	N-CA-CB	5.13	117.44	110.01
45	Li	665	ARG	N-CA-CB	5.13	117.44	110.01
51	Lo	240	VAL	CA-C-N	5.13	127.11	120.44
51	Lo	240	VAL	C-N-CA	5.13	127.11	120.44
52	Lp	411	GLU	CA-C-N	5.13	127.10	120.44
52	Lp	411	GLU	C-N-CA	5.13	127.10	120.44
53	Lq	647	ARG	CG-CD-NE	5.13	123.28	112.00
70	UH	264	ASP	CA-C-N	5.13	127.11	120.44
70	UH	264	ASP	C-N-CA	5.13	127.11	120.44
35	LY	316	LYS	CA-C-N	5.12	128.83	121.50
35	LY	316	LYS	C-N-CA	5.12	128.83	121.50
40	Ld	435	LEU	CA-C-N	5.12	127.15	120.28
40	Ld	435	LEU	C-N-CA	5.12	127.15	120.28
40	Ld	493	HIS	CA-C-N	5.12	127.10	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ld	493	HIS	C-N-CA	5.12	127.10	120.44
41	Le	421	ALA	CA-C-N	5.12	127.02	120.56
41	Le	421	ALA	C-N-CA	5.12	127.02	120.56
45	Li	687	VAL	CA-C-N	5.12	130.29	122.65
45	Li	687	VAL	C-N-CA	5.12	130.29	122.65
47	Lk	546	ARG	N-CA-CB	5.12	117.44	110.01
55	Ls	373	ARG	CG-CD-NE	5.12	123.28	112.00
1	L0	393	GLY	CA-C-N	5.12	129.92	122.08
1	L0	393	GLY	C-N-CA	5.12	129.92	122.08
13	LC	177	LEU	CA-C-N	5.12	130.41	122.26
13	LC	177	LEU	C-N-CA	5.12	130.41	122.26
20	LJ	259	ILE	N-CA-CB	5.12	116.54	110.55
21	LK	118	TYR	N-CA-CB	5.12	117.58	109.94
22	LL	340	VAL	CA-C-N	5.12	130.21	122.99
22	LL	340	VAL	C-N-CA	5.12	130.21	122.99
36	LZ	25	MET	CA-C-N	5.12	127.15	120.28
36	LZ	25	MET	C-N-CA	5.12	127.15	120.28
37	La	164	PRO	CA-C-N	5.12	127.14	120.28
37	La	164	PRO	C-N-CA	5.12	127.14	120.28
38	Lb	572	LEU	CA-C-N	5.12	127.51	120.39
38	Lb	572	LEU	C-N-CA	5.12	127.51	120.39
38	Lb	838	LEU	N-CA-CB	5.12	117.44	110.01
52	Lp	458	TYR	N-CA-CB	5.12	117.44	110.01
52	Lp	532	VAL	CA-C-N	5.12	130.00	122.77
52	Lp	532	VAL	C-N-CA	5.12	130.00	122.77
1	L0	562	LEU	CA-C-N	5.12	127.10	120.44
1	L0	562	LEU	C-N-CA	5.12	127.10	120.44
9	L8	145	ARG	N-CA-CB	5.12	117.44	110.01
28	LR	46	SER	N-CA-CB	5.12	117.79	110.06
33	LW	360	GLN	CA-C-N	5.12	128.75	121.42
33	LW	360	GLN	C-N-CA	5.12	128.75	121.42
34	LX	170	TRP	CA-C-N	5.12	127.14	120.28
34	LX	170	TRP	C-N-CA	5.12	127.14	120.28
38	Lb	382	ASP	N-CA-CB	5.12	117.53	109.69
38	Lb	440	LEU	N-CA-CB	5.12	117.44	110.01
44	Lh	737	LEU	CA-C-N	5.12	127.10	120.44
44	Lh	737	LEU	C-N-CA	5.12	127.10	120.44
52	Lp	450	GLU	CA-C-N	5.12	127.10	120.44
52	Lp	450	GLU	C-N-CA	5.12	127.10	120.44
53	Lq	142	THR	CA-C-N	5.12	130.27	123.10
53	Lq	142	THR	C-N-CA	5.12	130.27	123.10
61	Ly	279	GLN	N-CA-CB	5.12	117.60	109.51

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	LL	279	LYS	CA-C-N	5.12	130.63	122.59
22	LL	279	LYS	C-N-CA	5.12	130.63	122.59
39	Lc	412	SER	N-CA-CB	5.12	117.43	110.01
40	Ld	431	VAL	CA-C-N	5.12	127.09	120.44
40	Ld	431	VAL	C-N-CA	5.12	127.09	120.44
56	Lt	104	LYS	CA-C-N	5.12	127.10	120.44
56	Lt	104	LYS	C-N-CA	5.12	127.10	120.44
63	UA	255	LEU	CA-C-N	5.12	130.77	122.68
63	UA	255	LEU	C-N-CA	5.12	130.77	122.68
3	L2	78	PHE	CA-C-N	5.12	127.09	120.44
3	L2	78	PHE	C-N-CA	5.12	127.09	120.44
12	LB	94	PRO	CA-C-N	5.12	127.09	120.44
12	LB	94	PRO	C-N-CA	5.12	127.09	120.44
14	LD	370	GLU	CA-C-N	5.12	127.09	120.44
14	LD	370	GLU	C-N-CA	5.12	127.09	120.44
16	LF	129	ARG	CA-C-N	5.12	129.76	122.08
16	LF	129	ARG	C-N-CA	5.12	129.76	122.08
20	LJ	281	LEU	CA-C-N	5.12	127.65	120.28
20	LJ	281	LEU	C-N-CA	5.12	127.65	120.28
21	LK	111	LYS	N-CA-CB	5.12	117.73	110.46
22	LL	400	LEU	CA-C-N	5.12	129.41	122.19
22	LL	400	LEU	C-N-CA	5.12	129.41	122.19
24	LN	316	TRP	CA-C-N	5.12	127.09	120.44
24	LN	316	TRP	C-N-CA	5.12	127.09	120.44
33	LW	386	ASN	N-CA-CB	5.12	117.68	110.36
34	LX	151	GLU	CA-C-N	5.12	127.09	120.44
34	LX	151	GLU	C-N-CA	5.12	127.09	120.44
35	LY	252	GLN	CA-C-N	5.12	127.09	120.44
35	LY	252	GLN	C-N-CA	5.12	127.09	120.44
40	Ld	335	THR	CA-C-N	5.12	127.14	120.28
40	Ld	335	THR	C-N-CA	5.12	127.14	120.28
47	Lk	542	LEU	CA-C-N	5.12	127.09	120.44
47	Lk	542	LEU	C-N-CA	5.12	127.09	120.44
48	Ll	100	ARG	CA-C-N	5.12	130.40	122.26
48	Ll	100	ARG	C-N-CA	5.12	130.40	122.26
49	Lm	427	ARG	CA-C-N	5.12	127.09	120.44
49	Lm	427	ARG	C-N-CA	5.12	127.09	120.44
58	Lv	30	GLU	N-CA-CB	5.12	117.64	110.12
64	UB	340	HIS	CA-C-N	5.12	127.47	120.46
64	UB	340	HIS	C-N-CA	5.12	127.47	120.46
22	LL	241	ALA	CA-C-N	5.12	127.09	120.44
22	LL	241	ALA	C-N-CA	5.12	127.09	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	LQ	359	ARG	CA-C-N	5.12	127.09	120.44
27	LQ	359	ARG	C-N-CA	5.12	127.09	120.44
35	LY	332	LEU	CA-C-N	5.12	127.09	120.44
35	LY	332	LEU	C-N-CA	5.12	127.09	120.44
36	LZ	60	THR	CA-C-N	5.12	128.02	120.91
36	LZ	60	THR	C-N-CA	5.12	128.02	120.91
40	Ld	529	GLN	N-CA-CB	5.12	117.43	110.01
45	Li	311	SER	CA-C-N	5.12	130.21	122.99
45	Li	311	SER	C-N-CA	5.12	130.21	122.99
48	Ll	39	TRP	CA-C-N	5.12	127.09	120.44
48	Ll	39	TRP	C-N-CA	5.12	127.09	120.44
48	Ll	125	PRO	CA-C-N	5.12	127.09	120.44
48	Ll	125	PRO	C-N-CA	5.12	127.09	120.44
61	Ly	455	ILE	CA-C-N	5.12	127.14	120.28
61	Ly	455	ILE	C-N-CA	5.12	127.14	120.28
64	UB	379	PRO	CA-C-N	5.12	127.09	120.44
64	UB	379	PRO	C-N-CA	5.12	127.09	120.44
76	l4	85	A	C4'-C3'-O3'	5.12	117.08	109.40
1	L0	466	PHE	N-CA-CB	5.12	117.56	109.94
9	L8	192	ALA	CA-C-N	5.12	127.64	120.28
9	L8	192	ALA	C-N-CA	5.12	127.64	120.28
11	LA	109	VAL	CA-C-N	5.12	130.76	122.68
11	LA	109	VAL	C-N-CA	5.12	130.76	122.68
14	LD	364	ARG	N-CA-CB	5.12	117.43	110.01
24	LN	282	TRP	CA-C-N	5.12	130.60	122.62
24	LN	282	TRP	C-N-CA	5.12	130.60	122.62
25	LO	111	VAL	CA-C-N	5.12	129.14	121.72
25	LO	111	VAL	C-N-CA	5.12	129.14	121.72
32	LV	951	SER	CA-C-N	5.12	127.13	120.28
32	LV	951	SER	C-N-CA	5.12	127.13	120.28
38	Lb	738	VAL	CA-C-N	5.12	127.01	120.56
38	Lb	738	VAL	C-N-CA	5.12	127.01	120.56
38	Lb	867	VAL	CA-C-N	5.12	127.09	120.44
38	Lb	867	VAL	C-N-CA	5.12	127.09	120.44
38	Lb	908	ARG	CA-C-N	5.12	130.52	122.34
38	Lb	908	ARG	C-N-CA	5.12	130.52	122.34
43	Lg	24	ASP	CA-C-N	5.12	127.65	120.28
43	Lg	24	ASP	C-N-CA	5.12	127.65	120.28
43	Lg	201	ASP	CA-C-N	5.12	127.14	120.28
43	Lg	201	ASP	C-N-CA	5.12	127.14	120.28
45	Li	356	SER	N-CA-CB	5.12	117.43	110.01
53	Lq	224	LEU	N-CA-CB	5.12	117.43	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	247	PHE	N-CA-CB	5.12	117.43	110.01
53	Lq	694	ASP	CA-C-N	5.12	127.09	120.44
53	Lq	694	ASP	C-N-CA	5.12	127.09	120.44
56	Lt	108	HIS	CA-C-N	5.12	127.09	120.44
56	Lt	108	HIS	C-N-CA	5.12	127.09	120.44
57	Lu	381	LYS	CA-C-N	5.12	127.09	120.44
57	Lu	381	LYS	C-N-CA	5.12	127.09	120.44
1	L0	543	GLU	CA-C-N	5.11	127.09	120.44
1	L0	543	GLU	C-N-CA	5.11	127.09	120.44
24	LN	278	THR	CA-C-N	5.11	127.64	120.28
24	LN	278	THR	C-N-CA	5.11	127.64	120.28
35	LY	391	ASP	CA-C-N	5.11	127.13	120.28
35	LY	391	ASP	C-N-CA	5.11	127.13	120.28
35	LY	505	VAL	N-CA-CB	5.11	116.53	110.55
44	Lh	475	ILE	CA-C-N	5.11	128.13	120.87
44	Lh	475	ILE	C-N-CA	5.11	128.13	120.87
44	Lh	489	SER	CA-C-N	5.11	127.13	120.28
44	Lh	489	SER	C-N-CA	5.11	127.13	120.28
45	Li	355	GLU	CA-C-N	5.11	127.09	120.44
45	Li	355	GLU	C-N-CA	5.11	127.09	120.44
48	Ll	36	LEU	N-CA-CB	5.11	117.38	109.91
51	Lo	265	ARG	CG-CD-NE	5.11	123.25	112.00
69	UG	366	LYS	CG-CD-CE	5.11	123.06	111.30
5	L4	354	CYS	CA-C-N	5.11	127.09	120.44
5	L4	354	CYS	C-N-CA	5.11	127.09	120.44
20	LJ	19	ALA	CA-C-N	5.11	127.09	120.44
20	LJ	19	ALA	C-N-CA	5.11	127.09	120.44
20	LJ	20	ASP	N-CA-CB	5.11	117.42	110.01
20	LJ	230	ARG	CG-CD-NE	5.11	123.25	112.00
29	LS	118	ASN	CA-C-N	5.11	130.76	122.68
29	LS	118	ASN	C-N-CA	5.11	130.76	122.68
29	LS	182	LYS	CA-C-N	5.11	127.09	120.44
29	LS	182	LYS	C-N-CA	5.11	127.09	120.44
32	LV	420	LEU	N-CA-CB	5.11	117.42	110.01
38	Lb	729	SER	N-CA-CB	5.11	117.42	110.01
39	Lc	150	GLN	N-CA-CB	5.11	117.37	109.91
40	Ld	595	HIS	N-CA-CB	5.11	117.42	110.01
53	Lq	171	ASP	CA-C-N	5.11	127.09	120.44
53	Lq	171	ASP	C-N-CA	5.11	127.09	120.44
53	Lq	678	PHE	CA-C-N	5.11	127.09	120.44
53	Lq	678	PHE	C-N-CA	5.11	127.09	120.44
55	Ls	392	GLN	N-CA-CB	5.11	117.58	109.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
61	Ly	289	HIS	CA-C-N	5.11	128.47	120.75
61	Ly	289	HIS	C-N-CA	5.11	128.47	120.75
66	UD	172	LYS	CA-CB-CG	5.11	124.32	114.10
4	L3	522	LYS	CA-CB-CG	5.11	124.32	114.10
9	L8	164	TRP	CA-C-N	5.11	127.08	120.44
9	L8	164	TRP	C-N-CA	5.11	127.08	120.44
9	L8	209	SER	N-CA-CB	5.11	118.00	109.98
12	LB	38	TYR	CA-C-N	5.11	127.10	120.56
12	LB	38	TYR	C-N-CA	5.11	127.10	120.56
12	LB	70	LEU	N-CA-CB	5.11	117.42	110.01
32	LV	257	LEU	N-CA-CB	5.11	117.78	110.06
32	LV	1059	GLU	CA-C-N	5.11	127.00	120.56
32	LV	1059	GLU	C-N-CA	5.11	127.00	120.56
35	LY	376	LYS	CA-C-N	5.11	127.55	120.29
35	LY	376	LYS	C-N-CA	5.11	127.55	120.29
37	La	25	VAL	CA-C-N	5.11	129.77	122.72
37	La	25	VAL	C-N-CA	5.11	129.77	122.72
38	Lb	775	ARG	CG-CD-NE	5.11	123.24	112.00
39	Lc	450	TRP	CA-C-N	5.11	130.22	122.91
39	Lc	450	TRP	C-N-CA	5.11	130.22	122.91
39	Lc	506	LYS	CA-C-N	5.11	127.64	120.28
39	Lc	506	LYS	C-N-CA	5.11	127.64	120.28
45	Li	527	LEU	N-CA-CB	5.11	117.42	110.01
46	Lj	5	ARG	CG-CD-NE	5.11	123.24	112.00
49	Lm	267	GLY	CA-C-N	5.11	128.13	120.87
49	Lm	267	GLY	C-N-CA	5.11	128.13	120.87
51	Lo	122	GLY	CA-C-N	5.11	125.61	119.94
51	Lo	122	GLY	C-N-CA	5.11	125.61	119.94
51	Lo	144	ILE	CA-C-N	5.11	127.08	120.44
51	Lo	144	ILE	C-N-CA	5.11	127.08	120.44
53	Lq	653	LEU	CA-C-N	5.11	127.08	120.44
53	Lq	653	LEU	C-N-CA	5.11	127.08	120.44
54	Lr	245	SER	CA-C-N	5.11	127.08	120.44
54	Lr	245	SER	C-N-CA	5.11	127.08	120.44
66	UD	181	ARG	CA-CB-CG	5.11	124.32	114.10
91	lJ	184	C	C2'-C3'-O3'	5.11	117.17	109.50
5	L4	516	ARG	N-CA-CB	5.11	117.40	109.48
17	LG	206	ARG	N-CA-CB	5.11	117.42	110.01
20	LJ	240	THR	CA-C-N	5.11	128.08	120.31
20	LJ	240	THR	C-N-CA	5.11	128.08	120.31
22	LL	237	SER	CA-C-N	5.11	127.08	120.44
22	LL	237	SER	C-N-CA	5.11	127.08	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	328	THR	CA-C-N	5.11	127.13	120.28
39	Lc	328	THR	C-N-CA	5.11	127.13	120.28
46	Lj	100	GLN	N-CA-CB	5.11	117.63	110.12
51	Lo	177	VAL	CA-C-N	5.11	127.08	120.44
51	Lo	177	VAL	C-N-CA	5.11	127.08	120.44
61	Ly	606	MET	CA-CB-CG	5.11	124.32	114.10
6	L5	450	ARG	CG-CD-NE	5.11	123.24	112.00
11	LA	154	ILE	CA-C-N	5.11	127.54	120.29
11	LA	154	ILE	C-N-CA	5.11	127.54	120.29
12	LB	66	PRO	CA-C-N	5.11	127.38	120.38
12	LB	66	PRO	C-N-CA	5.11	127.38	120.38
13	LC	119	LYS	CA-CB-CG	5.11	124.31	114.10
13	LC	139	ARG	CG-CD-NE	5.11	123.23	112.00
13	LC	243	ASP	CA-C-N	5.11	127.46	120.46
13	LC	243	ASP	C-N-CA	5.11	127.46	120.46
29	LS	140	GLY	CA-C-N	5.11	128.80	121.50
29	LS	140	GLY	C-N-CA	5.11	128.80	121.50
38	Lb	792	LEU	N-CA-CB	5.11	117.42	110.01
45	Li	556	HIS	CA-C-N	5.11	127.12	120.28
45	Li	556	HIS	C-N-CA	5.11	127.12	120.28
52	Lp	470	THR	CA-C-N	5.11	127.12	120.28
52	Lp	470	THR	C-N-CA	5.11	127.12	120.28
53	Lq	679	ARG	CA-CB-CG	5.11	124.31	114.10
54	Lr	178	ASP	N-CA-CB	5.11	117.42	110.01
57	Lu	279	ARG	N-CA-CB	5.11	117.58	110.07
67	UE	185	ARG	CG-CD-NE	5.11	123.23	112.00
13	LC	288	SER	N-CA-CB	5.11	117.41	110.01
13	LC	477	LEU	CA-C-N	5.11	127.08	120.44
13	LC	477	LEU	C-N-CA	5.11	127.08	120.44
14	LD	366	ARG	CA-C-N	5.11	127.08	120.44
14	LD	366	ARG	C-N-CA	5.11	127.08	120.44
28	LR	22	ARG	CG-CD-NE	5.11	123.23	112.00
28	LR	122	HIS	CA-C-N	5.11	127.59	120.65
28	LR	122	HIS	C-N-CA	5.11	127.59	120.65
32	LV	756	PHE	N-CA-CB	5.11	117.41	110.01
36	LZ	129	ASP	CA-C-N	5.11	127.08	120.44
36	LZ	129	ASP	C-N-CA	5.11	127.08	120.44
37	La	50	LYS	CA-C-N	5.11	127.08	120.44
37	La	50	LYS	C-N-CA	5.11	127.08	120.44
40	Ld	381	ASN	N-CA-CB	5.11	117.47	110.07
43	Lg	89	LYS	CA-C-N	5.11	130.58	122.62
43	Lg	89	LYS	C-N-CA	5.11	130.58	122.62

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	Lg	115	ARG	CB-CG-CD	5.11	123.04	111.30
44	Lh	511	LYS	CA-C-N	5.11	127.08	120.44
44	Lh	511	LYS	C-N-CA	5.11	127.08	120.44
45	Li	358	SER	N-CA-CB	5.11	117.41	110.01
49	Lm	426	LEU	N-CA-CB	5.11	117.55	109.94
53	Lq	243	LEU	N-CA-CB	5.11	117.41	110.01
56	Lt	247	LEU	N-CA-CB	5.11	117.41	110.01
67	UE	124	GLY	CA-C-N	5.11	127.74	120.49
67	UE	124	GLY	C-N-CA	5.11	127.74	120.49
69	UG	368	LEU	CA-C-N	5.11	127.08	120.44
69	UG	368	LEU	C-N-CA	5.11	127.08	120.44
71	UI	391	ARG	CA-C-N	5.11	127.08	120.44
71	UI	391	ARG	C-N-CA	5.11	127.08	120.44
30	LT	76	LEU	N-CA-CB	5.10	117.41	110.01
32	LV	598	GLN	CA-C-N	5.10	127.08	120.44
32	LV	598	GLN	C-N-CA	5.10	127.08	120.44
33	LW	466	HIS	N-CA-CB	5.10	117.47	110.07
45	Li	628	LEU	N-CA-CB	5.10	117.41	110.01
13	LC	291	ARG	N-CA-CB	5.10	117.57	109.82
24	LN	266	LYS	CA-C-N	5.10	130.59	122.94
24	LN	266	LYS	C-N-CA	5.10	130.59	122.94
25	LO	128	GLY	CA-C-N	5.10	131.24	123.23
25	LO	128	GLY	C-N-CA	5.10	131.24	123.23
25	LO	165	ALA	CA-C-N	5.10	129.91	122.41
25	LO	165	ALA	C-N-CA	5.10	129.91	122.41
27	LQ	380	VAL	CA-C-N	5.10	127.07	120.44
27	LQ	380	VAL	C-N-CA	5.10	127.07	120.44
37	La	54	GLN	N-CA-CB	5.10	117.41	110.01
37	La	145	SER	CA-C-N	5.10	127.07	120.44
37	La	145	SER	C-N-CA	5.10	127.07	120.44
39	Lc	337	ASP	N-CA-CB	5.10	117.41	110.01
39	Lc	410	ALA	CA-C-N	5.10	127.12	120.28
39	Lc	410	ALA	C-N-CA	5.10	127.12	120.28
40	Ld	523	GLN	N-CA-CB	5.10	117.41	110.01
40	Ld	624	LEU	N-CA-CB	5.10	117.41	110.01
69	UG	285	PRO	CA-C-N	5.10	129.58	120.70
69	UG	285	PRO	C-N-CA	5.10	129.58	120.70
1	L0	337	GLY	N-CA-C	5.10	121.40	111.66
3	L2	188	ARG	N-CA-CB	5.10	117.41	110.01
13	LC	137	GLU	CA-C-N	5.10	127.07	120.44
13	LC	137	GLU	C-N-CA	5.10	127.07	120.44
38	Lb	875	SER	CA-C-N	5.10	127.11	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	875	SER	C-N-CA	5.10	127.11	120.28
39	Lc	304	LEU	N-CA-CB	5.10	117.47	110.07
39	Lc	496	GLU	N-CA-CB	5.10	117.41	110.01
48	Ll	41	GLN	CA-C-N	5.10	128.06	120.31
48	Ll	41	GLN	C-N-CA	5.10	128.06	120.31
14	LD	544	LYS	CA-CB-CG	5.10	124.30	114.10
20	LJ	331	ARG	CA-C-N	5.10	128.94	120.94
20	LJ	331	ARG	C-N-CA	5.10	128.94	120.94
24	LN	255	MET	CA-CB-CG	5.10	124.30	114.10
29	LS	225	MET	N-CA-CB	5.10	117.64	110.24
33	LW	217	ARG	CA-C-N	5.10	129.30	120.58
33	LW	217	ARG	C-N-CA	5.10	129.30	120.58
33	LW	393	ALA	CA-C-N	5.10	128.06	120.31
33	LW	393	ALA	C-N-CA	5.10	128.06	120.31
38	Lb	503	LEU	N-CA-CB	5.10	117.62	110.12
38	Lb	995	TRP	CA-C-N	5.10	128.71	121.42
38	Lb	995	TRP	C-N-CA	5.10	128.71	121.42
42	Lf	167	SER	CA-C-N	5.10	128.09	120.95
42	Lf	167	SER	C-N-CA	5.10	128.09	120.95
43	Lg	81	GLU	CA-CB-CG	5.10	124.30	114.10
61	Ly	319	GLU	CA-C-N	5.10	127.07	120.44
61	Ly	319	GLU	C-N-CA	5.10	127.07	120.44
64	UB	323	ASP	CA-C-N	5.10	127.62	120.28
64	UB	323	ASP	C-N-CA	5.10	127.62	120.28
67	UE	186	GLU	CA-C-N	5.10	127.07	120.44
67	UE	186	GLU	C-N-CA	5.10	127.07	120.44
70	UH	273	ARG	CG-CD-NE	5.10	123.22	112.00
1	L0	328	ARG	N-CA-CB	5.10	117.40	110.01
13	LC	549	TRP	CA-C-N	5.10	127.07	120.44
13	LC	549	TRP	C-N-CA	5.10	127.07	120.44
25	LO	295	GLY	CA-C-N	5.10	127.11	120.28
25	LO	295	GLY	C-N-CA	5.10	127.11	120.28
28	LR	45	LEU	CA-C-N	5.10	128.71	121.42
28	LR	45	LEU	C-N-CA	5.10	128.71	121.42
29	LS	73	ARG	CA-CB-CG	5.10	124.29	114.10
38	Lb	336	LYS	N-CA-CB	5.10	117.40	110.01
38	Lb	454	LEU	CA-C-N	5.10	127.07	120.44
38	Lb	454	LEU	C-N-CA	5.10	127.07	120.44
38	Lb	687	VAL	CA-C-N	5.10	127.07	120.44
38	Lb	687	VAL	C-N-CA	5.10	127.07	120.44
38	Lb	746	ARG	CA-CB-CG	5.10	124.29	114.10
39	Lc	363	LEU	N-CA-CB	5.10	117.53	109.94

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
46	Lj	51	ARG	N-CA-CB	5.10	117.40	110.01
48	Ll	86	GLU	CA-C-N	5.10	127.07	120.44
48	Ll	86	GLU	C-N-CA	5.10	127.07	120.44
49	Lm	419	ASP	N-CA-CB	5.10	117.40	110.01
50	Ln	152	ASP	N-CA-CB	5.10	117.70	110.46
56	Lt	251	MET	CA-CB-CG	5.10	124.30	114.10
68	UF	33	ARG	CG-CD-NE	5.10	123.22	112.00
13	LC	134	LEU	N-CA-CB	5.10	117.40	110.01
20	LJ	250	GLN	N-CA-CB	5.10	117.40	110.01
20	LJ	255	SER	CA-C-N	5.10	127.06	120.44
20	LJ	255	SER	C-N-CA	5.10	127.06	120.44
22	LL	386	ASP	CA-C-N	5.10	127.62	120.28
22	LL	386	ASP	C-N-CA	5.10	127.62	120.28
41	Le	556	GLU	N-CA-CB	5.10	117.40	110.01
52	Lp	534	TYR	CA-C-N	5.10	128.94	120.94
52	Lp	534	TYR	C-N-CA	5.10	128.94	120.94
53	Lq	164	SER	N-CA-CB	5.10	117.65	110.36
59	Lw	147	GLN	CA-C-N	5.10	127.11	120.28
59	Lw	147	GLN	C-N-CA	5.10	127.11	120.28
61	Ly	336	GLN	CA-CB-CG	5.10	124.29	114.10
66	UD	171	ARG	CA-C-N	5.10	127.53	120.29
66	UD	171	ARG	C-N-CA	5.10	127.53	120.29
16	LF	171	LYS	N-CA-CB	5.09	117.56	109.51
29	LS	183	ALA	CA-C-N	5.09	127.06	120.44
29	LS	183	ALA	C-N-CA	5.09	127.06	120.44
32	LV	967	GLN	N-CA-CB	5.09	117.63	109.28
34	LX	164	GLU	CA-C-N	5.09	127.11	120.28
34	LX	164	GLU	C-N-CA	5.09	127.11	120.28
35	LY	374	LYS	CA-C-N	5.09	127.06	120.44
35	LY	374	LYS	C-N-CA	5.09	127.06	120.44
38	Lb	631	GLU	N-CA-CB	5.09	117.40	110.01
40	Ld	520	MET	CA-CB-CG	5.09	124.29	114.10
41	Le	515	ARG	CG-CD-NE	5.09	123.21	112.00
47	Lk	408	PHE	N-CA-CB	5.09	117.40	110.01
51	Lo	235	PHE	CA-C-N	5.09	127.06	120.44
51	Lo	235	PHE	C-N-CA	5.09	127.06	120.44
52	Lp	467	ASP	CA-C-N	5.09	127.06	120.44
52	Lp	467	ASP	C-N-CA	5.09	127.06	120.44
64	UB	380	ALA	CA-C-N	5.09	128.39	120.60
64	UB	380	ALA	C-N-CA	5.09	128.39	120.60
20	LJ	119	ARG	CG-CD-NE	5.09	123.20	112.00
37	La	190	ASP	CA-C-N	5.09	127.10	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
37	La	190	ASP	C-N-CA	5.09	127.10	120.28
44	Lh	706	LEU	N-CA-CB	5.09	117.39	110.01
54	Lr	269	ARG	CG-CD-NE	5.09	123.20	112.00
5	L4	440	PHE	N-CA-CB	5.09	117.39	110.01
13	LC	529	THR	CA-C-N	5.09	125.63	119.98
13	LC	529	THR	C-N-CA	5.09	125.63	119.98
19	LI	79	TYR	N-CA-CB	5.09	117.39	110.01
22	LL	306	GLU	N-CA-CB	5.09	117.39	110.01
30	LT	12	ARG	CA-C-N	5.09	128.00	120.82
30	LT	12	ARG	C-N-CA	5.09	128.00	120.82
33	LW	479	THR	CA-C-N	5.09	128.57	121.24
33	LW	479	THR	C-N-CA	5.09	128.57	121.24
34	LX	169	LEU	N-CA-CB	5.09	117.39	110.01
35	LY	249	ARG	CA-C-N	5.09	127.10	120.28
35	LY	249	ARG	C-N-CA	5.09	127.10	120.28
35	LY	428	VAL	CA-C-N	5.09	130.56	122.62
35	LY	428	VAL	C-N-CA	5.09	130.56	122.62
40	Ld	507	ALA	CA-C-N	5.09	127.47	120.39
40	Ld	507	ALA	C-N-CA	5.09	127.47	120.39
41	Le	418	LEU	N-CA-CB	5.09	117.39	110.01
56	Lt	117	CYS	N-CA-CB	5.09	117.39	110.01
56	Lt	264	LYS	CB-CG-CD	5.09	123.01	111.30
60	Lx	313	ARG	CG-CD-NE	5.09	123.20	112.00
62	Lz	193	GLU	CA-C-N	5.09	127.06	120.44
62	Lz	193	GLU	C-N-CA	5.09	127.06	120.44
5	L4	283	LEU	CA-C-N	5.09	127.06	120.44
5	L4	283	LEU	C-N-CA	5.09	127.06	120.44
20	LJ	272	LYS	CA-C-N	5.09	127.06	120.44
20	LJ	272	LYS	C-N-CA	5.09	127.06	120.44
22	LL	521	SER	CA-C-N	5.09	130.35	122.26
22	LL	521	SER	C-N-CA	5.09	130.35	122.26
32	LV	593	HIS	CA-C-N	5.09	127.36	120.44
32	LV	593	HIS	C-N-CA	5.09	127.36	120.44
32	LV	675	SER	CA-C-N	5.09	127.06	120.44
32	LV	675	SER	C-N-CA	5.09	127.06	120.44
38	Lb	324	LYS	N-CA-CB	5.09	117.39	110.01
38	Lb	338	ILE	CA-C-N	5.09	127.06	120.44
38	Lb	338	ILE	C-N-CA	5.09	127.06	120.44
38	Lb	649	ALA	CA-C-N	5.09	127.06	120.44
38	Lb	649	ALA	C-N-CA	5.09	127.06	120.44
39	Lc	522	ASP	N-CA-CB	5.09	117.39	110.01
40	Ld	619	GLU	N-CA-CB	5.09	117.39	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Li	700	TYR	CA-C-N	5.09	130.09	122.86
45	Li	700	TYR	C-N-CA	5.09	130.09	122.86
56	Lt	131	ARG	N-CA-CB	5.09	117.39	110.01
57	Lu	350	TRP	N-CA-CB	5.09	117.39	110.01
58	Lv	41	SER	CA-C-N	5.09	127.52	120.29
58	Lv	41	SER	C-N-CA	5.09	127.52	120.29
3	L2	223	LEU	N-CA-CB	5.09	117.39	110.01
12	LB	88	ASN	CA-C-N	5.09	127.06	120.44
12	LB	88	ASN	C-N-CA	5.09	127.06	120.44
20	LJ	419	SER	N-CA-CB	5.09	117.39	110.01
24	LN	259	ARG	CB-CG-CD	5.09	123.00	111.30
38	Lb	324	LYS	CA-C-N	5.09	127.05	120.44
38	Lb	324	LYS	C-N-CA	5.09	127.05	120.44
40	Ld	435	LEU	N-CA-CB	5.09	117.39	110.01
41	Le	515	ARG	CA-C-N	5.09	127.05	120.44
41	Le	515	ARG	C-N-CA	5.09	127.05	120.44
46	Lj	58	ARG	CA-CB-CG	5.09	124.28	114.10
53	Lq	181	SER	N-CA-CB	5.09	117.39	110.01
5	L4	198	SER	CA-C-N	5.09	127.05	120.44
5	L4	198	SER	C-N-CA	5.09	127.05	120.44
17	LG	161	SER	CA-C-N	5.09	129.74	122.21
17	LG	161	SER	C-N-CA	5.09	129.74	122.21
18	LH	253	ILE	CA-C-N	5.09	127.05	120.44
18	LH	253	ILE	C-N-CA	5.09	127.05	120.44
20	LJ	18	GLU	N-CA-CB	5.09	117.69	110.06
20	LJ	397	PRO	CA-C-N	5.09	129.17	121.03
20	LJ	397	PRO	C-N-CA	5.09	129.17	121.03
25	LO	108	CYS	CA-C-N	5.09	128.43	120.75
25	LO	108	CYS	C-N-CA	5.09	128.43	120.75
26	LP	280	ARG	CG-CD-NE	5.09	123.19	112.00
32	LV	515	SER	CA-C-N	5.09	127.05	120.44
32	LV	515	SER	C-N-CA	5.09	127.05	120.44
34	LX	155	GLU	CA-C-N	5.09	127.51	120.29
34	LX	155	GLU	C-N-CA	5.09	127.51	120.29
39	Lc	217	ASP	CA-C-N	5.09	127.05	120.44
39	Lc	217	ASP	C-N-CA	5.09	127.05	120.44
40	Ld	531	ARG	CG-CD-NE	5.09	123.19	112.00
49	Lm	342	ASP	CA-C-N	5.09	127.09	120.28
49	Lm	342	ASP	C-N-CA	5.09	127.09	120.28
51	Lo	157	GLN	CA-C-N	5.09	127.46	120.39
51	Lo	157	GLN	C-N-CA	5.09	127.46	120.39
52	Lp	410	GLU	N-CA-CB	5.09	117.60	110.12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
55	Ls	411	LEU	CA-C-N	5.09	128.04	120.31
55	Ls	411	LEU	C-N-CA	5.09	128.04	120.31
56	Lt	104	LYS	CG-CD-CE	5.09	123.00	111.30
56	Lt	218	ARG	N-CA-CB	5.09	117.45	109.97
56	Lt	234	GLN	CA-C-N	5.09	127.64	120.42
56	Lt	234	GLN	C-N-CA	5.09	127.64	120.42
58	Lv	45	LYS	N-CA-CB	5.09	117.39	110.01
62	Lz	230	LEU	CA-C-N	5.09	127.93	120.71
62	Lz	230	LEU	C-N-CA	5.09	127.93	120.71
64	UB	338	ASN	N-CA-CB	5.09	117.52	109.94
69	UG	375	ARG	CG-CD-NE	5.09	123.19	112.00
1	L0	313	VAL	N-CA-CB	5.08	116.26	110.72
15	LE	439	HIS	CA-CB-CG	5.08	118.89	113.80
20	LJ	16	LYS	CA-C-N	5.08	127.05	120.44
20	LJ	16	LYS	C-N-CA	5.08	127.05	120.44
27	LQ	371	ASN	N-CA-CB	5.08	117.38	110.01
40	Ld	374	LYS	CA-C-N	5.08	129.32	120.68
40	Ld	374	LYS	C-N-CA	5.08	129.32	120.68
53	Lq	684	ALA	CA-C-N	5.08	127.51	120.29
53	Lq	684	ALA	C-N-CA	5.08	127.51	120.29
1	L0	475	LEU	CA-C-N	5.08	130.57	122.59
1	L0	475	LEU	C-N-CA	5.08	130.57	122.59
6	L5	448	ARG	CA-C-N	5.08	128.09	120.87
6	L5	448	ARG	C-N-CA	5.08	128.09	120.87
7	L6	539	PRO	CA-C-N	5.08	127.34	120.38
7	L6	539	PRO	C-N-CA	5.08	127.34	120.38
12	LB	38	TYR	N-CA-CB	5.08	117.52	109.94
13	LC	359	GLN	N-CA-CB	5.08	117.38	110.01
17	LG	206	ARG	CG-CD-NE	5.08	123.19	112.00
20	LJ	245	ARG	CG-CD-NE	5.08	123.18	112.00
32	LV	889	ARG	CG-CD-NE	5.08	123.19	112.00
33	LW	325	ARG	N-CA-CB	5.08	117.38	110.01
33	LW	372	GLY	CA-C-N	5.08	128.77	121.50
33	LW	372	GLY	C-N-CA	5.08	128.77	121.50
35	LY	252	GLN	CA-CB-CG	5.08	124.27	114.10
38	Lb	586	CYS	CA-C-N	5.08	127.05	120.44
38	Lb	586	CYS	C-N-CA	5.08	127.05	120.44
38	Lb	772	ILE	CA-C-N	5.08	127.05	120.44
38	Lb	772	ILE	C-N-CA	5.08	127.05	120.44
39	Lc	524	ALA	CA-C-N	5.08	127.05	120.44
39	Lc	524	ALA	C-N-CA	5.08	127.05	120.44
40	Ld	505	GLU	CA-C-N	5.08	129.20	120.71

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ld	505	GLU	C-N-CA	5.08	129.20	120.71
43	Lg	175	ARG	CA-CB-CG	5.08	124.27	114.10
45	Li	125	ARG	CG-CD-NE	5.08	123.19	112.00
46	Lj	13	GLN	N-CA-CB	5.08	117.38	110.01
51	Lo	120	ARG	CA-C-N	5.08	129.20	120.71
51	Lo	120	ARG	C-N-CA	5.08	129.20	120.71
55	Ls	382	LYS	CA-C-N	5.08	124.93	120.10
55	Ls	382	LYS	C-N-CA	5.08	124.93	120.10
59	Lw	151	VAL	CA-C-N	5.08	127.05	120.44
59	Lw	151	VAL	C-N-CA	5.08	127.05	120.44
60	Lx	367	LEU	N-CA-CB	5.08	117.38	110.01
15	LE	685	HIS	CA-CB-CG	5.08	118.88	113.80
20	LJ	253	PHE	CA-C-N	5.08	127.05	120.44
20	LJ	253	PHE	C-N-CA	5.08	127.05	120.44
20	LJ	295	PRO	CA-C-N	5.08	127.05	120.44
20	LJ	295	PRO	C-N-CA	5.08	127.05	120.44
22	LL	528	GLN	CA-C-N	5.08	127.05	120.44
22	LL	528	GLN	C-N-CA	5.08	127.05	120.44
29	LS	31	SER	CA-C-N	5.08	130.22	122.29
29	LS	31	SER	C-N-CA	5.08	130.22	122.29
32	LV	795	HIS	ND1-CG-CD2	-5.08	101.02	106.10
38	Lb	635	ILE	CA-C-N	5.08	127.09	120.28
38	Lb	635	ILE	C-N-CA	5.08	127.09	120.28
39	Lc	147	ALA	CA-C-N	5.08	127.05	120.44
39	Lc	147	ALA	C-N-CA	5.08	127.05	120.44
39	Lc	581	ASP	N-CA-CB	5.08	117.38	110.01
40	Ld	505	GLU	N-CA-CB	5.08	117.50	109.83
40	Ld	528	GLU	N-CA-CB	5.08	117.38	110.01
43	Lg	86	ARG	CA-CB-CG	5.08	124.26	114.10
46	Lj	26	ARG	CG-CD-NE	5.08	123.18	112.00
47	Lk	474	ARG	CG-CD-NE	5.08	123.18	112.00
52	Lp	720	ARG	CG-CD-NE	5.08	123.18	112.00
54	Lr	180	ARG	CA-C-N	5.08	127.05	120.44
54	Lr	180	ARG	C-N-CA	5.08	127.05	120.44
68	UF	51	GLU	CA-C-N	5.08	127.60	120.28
68	UF	51	GLU	C-N-CA	5.08	127.60	120.28
1	L0	435	ALA	CA-C-N	5.08	127.59	120.28
1	L0	435	ALA	C-N-CA	5.08	127.59	120.28
3	L2	194	LEU	CA-C-N	5.08	127.05	120.44
3	L2	194	LEU	C-N-CA	5.08	127.05	120.44
26	LP	123	GLN	CA-CB-CG	5.08	124.26	114.10
33	LW	210	ARG	CG-CD-NE	5.08	123.18	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
41	Le	442	GLN	CA-C-N	5.08	130.57	122.59
41	Le	442	GLN	C-N-CA	5.08	130.57	122.59
44	Lh	400	PRO	CA-C-N	5.08	129.56	121.99
44	Lh	400	PRO	C-N-CA	5.08	129.56	121.99
46	Lj	7	LEU	CA-C-N	5.08	127.04	120.44
46	Lj	7	LEU	C-N-CA	5.08	127.04	120.44
56	Lt	102	GLN	CA-C-N	5.08	127.04	120.44
56	Lt	102	GLN	C-N-CA	5.08	127.04	120.44
1	L0	401	LEU	CA-C-N	5.08	127.04	120.44
1	L0	401	LEU	C-N-CA	5.08	127.04	120.44
3	L2	72	ARG	CA-C-N	5.08	127.04	120.44
3	L2	72	ARG	C-N-CA	5.08	127.04	120.44
11	LA	36	MET	CA-C-N	5.08	127.08	120.28
11	LA	36	MET	C-N-CA	5.08	127.08	120.28
20	LJ	143	ALA	CA-C-N	5.08	127.04	120.44
20	LJ	143	ALA	C-N-CA	5.08	127.04	120.44
20	LJ	266	VAL	CA-C-N	5.08	127.04	120.44
20	LJ	266	VAL	C-N-CA	5.08	127.04	120.44
20	LJ	417	LEU	CA-C-N	5.08	127.04	120.44
20	LJ	417	LEU	C-N-CA	5.08	127.04	120.44
23	LM	28	PRO	CA-C-N	5.08	128.03	120.31
23	LM	28	PRO	C-N-CA	5.08	128.03	120.31
33	LW	321	GLY	CA-C-N	5.08	126.96	120.56
33	LW	321	GLY	C-N-CA	5.08	126.96	120.56
38	Lb	654	VAL	CA-C-N	5.08	127.04	120.44
38	Lb	654	VAL	C-N-CA	5.08	127.04	120.44
39	Lc	149	GLY	CA-C-N	5.08	127.35	120.65
39	Lc	149	GLY	C-N-CA	5.08	127.35	120.65
39	Lc	427	ARG	N-CA-CB	5.08	117.87	110.30
41	Le	489	ARG	CG-CD-NE	5.08	123.17	112.00
42	Lf	354	CYS	N-CA-CB	5.08	117.37	110.01
49	Lm	418	ARG	CG-CD-NE	5.08	123.17	112.00
4	L3	645	CYS	N-CA-CB	5.08	117.82	109.95
24	LN	314	ASP	CA-C-N	5.08	127.59	120.28
24	LN	314	ASP	C-N-CA	5.08	127.59	120.28
30	LT	12	ARG	CB-CG-CD	5.08	122.98	111.30
39	Lc	537	LEU	N-CA-CB	5.08	117.37	110.01
40	Ld	508	SER	N-CA-CB	5.08	117.95	109.98
48	Ll	4	ARG	CG-CD-NE	5.08	123.17	112.00
48	Ll	12	LYS	CA-CB-CG	5.08	124.25	114.10
56	Lt	130	TRP	CA-C-N	5.08	127.04	120.44
56	Lt	130	TRP	C-N-CA	5.08	127.04	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
57	Lu	414	ASP	CA-C-N	5.08	130.84	123.12
57	Lu	414	ASP	C-N-CA	5.08	130.84	123.12
2	L1	510	PRO	CA-C-N	5.08	127.08	120.28
2	L1	510	PRO	C-N-CA	5.08	127.08	120.28
4	L3	628	TYR	CA-C-N	5.08	127.08	120.28
4	L3	628	TYR	C-N-CA	5.08	127.08	120.28
21	LK	168	ALA	CA-C-N	5.08	127.04	120.44
21	LK	168	ALA	C-N-CA	5.08	127.04	120.44
23	LM	106	HIS	CA-C-N	5.08	126.95	120.56
23	LM	106	HIS	C-N-CA	5.08	126.95	120.56
25	LO	134	ARG	CA-C-N	5.08	128.06	120.95
25	LO	134	ARG	C-N-CA	5.08	128.06	120.95
32	LV	486	ARG	CA-C-N	5.08	127.04	120.44
32	LV	486	ARG	C-N-CA	5.08	127.04	120.44
34	LX	122	ASN	CA-C-N	5.08	130.56	122.94
34	LX	122	ASN	C-N-CA	5.08	130.56	122.94
44	Lh	412	PHE	N-CA-CB	5.08	117.32	109.91
44	Lh	549	ILE	CA-C-N	5.08	128.03	120.31
44	Lh	549	ILE	C-N-CA	5.08	128.03	120.31
46	Lj	66	ARG	CA-C-N	5.08	130.91	122.54
46	Lj	66	ARG	C-N-CA	5.08	130.91	122.54
48	Ll	136	ARG	CG-CD-NE	5.08	123.17	112.00
53	Lq	246	LEU	N-CA-CB	5.08	117.37	110.01
67	UE	127	ARG	CG-CD-NE	5.08	123.17	112.00
68	UF	15	GLN	CA-CB-CG	5.08	124.25	114.10
69	UG	262	ARG	CG-CD-NE	5.08	123.17	112.00
5	L4	250	SER	CA-C-N	5.07	127.03	120.44
5	L4	250	SER	C-N-CA	5.07	127.03	120.44
24	LN	248	LYS	CA-CB-CG	5.07	124.25	114.10
24	LN	264	LYS	CA-CB-CG	5.07	124.25	114.10
26	LP	101	TYR	N-CA-CB	5.07	117.37	110.01
31	LU	301	ILE	CA-C-N	5.07	127.04	120.44
31	LU	301	ILE	C-N-CA	5.07	127.04	120.44
38	Lb	462	LEU	CA-C-N	5.07	127.04	120.44
38	Lb	462	LEU	C-N-CA	5.07	127.04	120.44
38	Lb	633	VAL	CA-C-N	5.07	127.04	120.44
38	Lb	633	VAL	C-N-CA	5.07	127.04	120.44
43	Lg	87	GLN	CA-CB-CG	5.07	124.25	114.10
45	Li	631	ARG	CA-CB-CG	5.07	124.25	114.10
49	Lm	275	GLY	CA-C-N	5.07	127.04	120.44
49	Lm	275	GLY	C-N-CA	5.07	127.04	120.44
51	Lo	91	HIS	CA-C-N	5.07	130.83	123.12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
51	Lo	91	HIS	C-N-CA	5.07	130.83	123.12
51	Lo	291	ARG	CA-C-N	5.07	127.91	120.71
51	Lo	291	ARG	C-N-CA	5.07	127.91	120.71
52	Lp	607	PRO	CA-C-N	5.07	127.34	120.44
52	Lp	607	PRO	C-N-CA	5.07	127.34	120.44
56	Lt	63	PHE	N-CA-CB	5.07	117.58	110.12
57	Lu	486	MET	CA-C-N	5.07	129.74	121.98
57	Lu	486	MET	C-N-CA	5.07	129.74	121.98
60	Lx	337	ALA	CA-C-N	5.07	127.08	120.28
60	Lx	337	ALA	C-N-CA	5.07	127.08	120.28
64	UB	245	TYR	N-CA-CB	5.07	117.45	109.69
1	L0	543	GLU	N-CA-CB	5.07	117.36	110.01
5	L4	201	ALA	CA-C-N	5.07	127.03	120.44
5	L4	201	ALA	C-N-CA	5.07	127.03	120.44
5	L4	593	ARG	CG-CD-NE	5.07	123.16	112.00
11	LA	149	ARG	CB-CG-CD	5.07	122.97	111.30
27	LQ	357	ARG	CG-CD-NE	5.07	123.16	112.00
38	Lb	456	ALA	CA-C-N	5.07	127.03	120.44
38	Lb	456	ALA	C-N-CA	5.07	127.03	120.44
41	Le	266	GLY	CA-C-N	5.07	129.18	120.71
41	Le	266	GLY	C-N-CA	5.07	129.18	120.71
13	LC	244	ILE	CA-C-N	5.07	127.03	120.44
13	LC	244	ILE	C-N-CA	5.07	127.03	120.44
15	LE	371	ARG	CG-CD-NE	5.07	123.15	112.00
18	LH	256	PHE	CA-C-N	5.07	127.03	120.44
18	LH	256	PHE	C-N-CA	5.07	127.03	120.44
19	LI	74	VAL	CA-C-N	5.07	127.44	120.39
19	LI	74	VAL	C-N-CA	5.07	127.44	120.39
29	LS	5	VAL	CA-C-N	5.07	127.34	120.65
29	LS	5	VAL	C-N-CA	5.07	127.34	120.65
32	LV	517	LEU	N-CA-CB	5.07	117.36	110.01
38	Lb	686	GLN	CA-CB-CG	5.07	124.24	114.10
41	Le	473	GLU	CA-CB-CG	5.07	124.24	114.10
44	Lh	358	ARG	CG-CD-NE	5.07	123.15	112.00
52	Lp	451	GLU	N-CA-CB	5.07	117.36	110.01
53	Lq	647	ARG	CA-CB-CG	5.07	124.24	114.10
54	Lr	10	LYS	N-CA-CB	5.07	117.36	110.01
54	Lr	255	ARG	CG-CD-NE	5.07	123.15	112.00
57	Lu	302	LYS	N-CA-CB	5.07	117.36	110.01
61	Ly	678	HIS	CA-C-N	5.07	127.91	120.71
61	Ly	678	HIS	C-N-CA	5.07	127.91	120.71
68	UF	17	GLN	N-CA-CB	5.07	117.53	109.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	L6	237	ARG	CA-C-N	5.07	128.05	120.95
7	L6	237	ARG	C-N-CA	5.07	128.05	120.95
22	LL	322	GLU	CA-C-N	5.07	129.77	122.72
22	LL	322	GLU	C-N-CA	5.07	129.77	122.72
22	LL	601	ALA	CA-C-N	5.07	127.03	120.44
22	LL	601	ALA	C-N-CA	5.07	127.03	120.44
1	L0	338	ILE	N-CA-CB	5.07	116.78	111.00
27	LQ	392	LEU	N-CA-CB	5.07	117.36	110.01
39	Lc	317	ARG	CG-CD-NE	5.07	123.15	112.00
40	Ld	541	LEU	CA-C-N	5.07	127.03	120.44
40	Ld	541	LEU	C-N-CA	5.07	127.03	120.44
46	Lj	102	ARG	CG-CD-NE	5.07	123.15	112.00
52	Lp	507	GLN	CA-CB-CG	5.07	124.23	114.10
53	Lq	230	GLN	N-CA-CB	5.07	117.57	110.12
54	Lr	143	ARG	CA-CB-CG	5.07	124.23	114.10
1	L0	547	LEU	CA-C-N	5.07	128.71	120.60
1	L0	547	LEU	C-N-CA	5.07	128.71	120.60
11	LA	176	LEU	N-CA-CB	5.07	117.80	109.95
13	LC	607	ARG	CA-CB-CG	5.07	124.23	114.10
24	LN	245	ASP	N-CA-CB	5.07	117.41	110.57
24	LN	302	LYS	CA-CB-CG	5.07	124.23	114.10
25	LO	96	LYS	N-CA-CB	5.07	117.35	110.01
27	LQ	392	LEU	CA-C-N	5.07	127.03	120.44
27	LQ	392	LEU	C-N-CA	5.07	127.03	120.44
31	LU	274	LYS	CA-C-N	5.07	127.03	120.44
31	LU	274	LYS	C-N-CA	5.07	127.03	120.44
32	LV	746	VAL	CA-C-N	5.07	127.07	120.28
32	LV	746	VAL	C-N-CA	5.07	127.07	120.28
32	LV	961	ARG	CA-CB-CG	5.07	124.23	114.10
33	LW	471	ARG	CG-CD-NE	5.07	123.14	112.00
37	La	98	LYS	CA-CB-CG	5.07	124.23	114.10
38	Lb	637	HIS	CA-C-N	5.07	127.48	120.29
38	Lb	637	HIS	C-N-CA	5.07	127.48	120.29
38	Lb	852	ARG	CA-CB-CG	5.07	124.23	114.10
40	Ld	317	ARG	N-CA-CB	5.07	117.57	110.12
40	Ld	594	ARG	CA-C-N	5.07	127.03	120.44
40	Ld	594	ARG	C-N-CA	5.07	127.03	120.44
42	Lf	189	PRO	CA-C-N	5.07	130.52	122.62
42	Lf	189	PRO	C-N-CA	5.07	130.52	122.62
45	Li	361	ARG	CA-C-N	5.07	129.14	122.30
45	Li	361	ARG	C-N-CA	5.07	129.14	122.30
45	Li	604	PRO	CA-C-N	5.07	130.10	122.75

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Li	604	PRO	C-N-CA	5.07	130.10	122.75
45	Li	630	GLU	N-CA-CB	5.07	117.36	110.01
46	Lj	9	SER	CA-C-N	5.07	127.03	120.44
46	Lj	9	SER	C-N-CA	5.07	127.03	120.44
51	Lo	252	GLU	CA-C-N	5.07	130.15	122.91
51	Lo	252	GLU	C-N-CA	5.07	130.15	122.91
54	Lr	10	LYS	CA-C-N	5.07	130.63	122.83
54	Lr	10	LYS	C-N-CA	5.07	130.63	122.83
57	Lu	265	VAL	CA-C-N	5.07	127.03	120.44
57	Lu	265	VAL	C-N-CA	5.07	127.03	120.44
61	Ly	589	ARG	CA-CB-CG	5.07	124.23	114.10
64	UB	267	ARG	CA-CB-CG	5.07	124.23	114.10
1	L0	331	ARG	CG-CD-NE	5.06	123.14	112.00
15	LE	369	TRP	N-CA-CB	5.06	117.48	109.94
20	LJ	15	LEU	N-CA-CB	5.06	117.35	110.01
32	LV	1007	LEU	CA-C-N	5.06	127.48	120.29
32	LV	1007	LEU	C-N-CA	5.06	127.48	120.29
40	Ld	418	GLU	CA-CB-CG	5.06	124.23	114.10
42	Lf	341	LYS	CA-C-N	5.06	127.57	120.28
42	Lf	341	LYS	C-N-CA	5.06	127.57	120.28
52	Lp	644	GLN	CA-C-N	5.06	129.24	120.58
52	Lp	644	GLN	C-N-CA	5.06	129.24	120.58
55	Ls	345	ARG	N-CA-CB	5.06	117.35	110.01
17	LG	201	PRO	CA-C-N	5.06	127.96	120.82
17	LG	201	PRO	C-N-CA	5.06	127.96	120.82
20	LJ	66	CYS	CA-C-N	5.06	126.94	120.56
20	LJ	66	CYS	C-N-CA	5.06	126.94	120.56
22	LL	242	ALA	CA-C-N	5.06	127.02	120.44
22	LL	242	ALA	C-N-CA	5.06	127.02	120.44
32	LV	404	LEU	CA-C-N	5.06	127.02	120.44
32	LV	404	LEU	C-N-CA	5.06	127.02	120.44
32	LV	518	LEU	CA-C-N	5.06	127.06	120.28
32	LV	518	LEU	C-N-CA	5.06	127.06	120.28
38	Lb	584	ARG	CA-C-N	5.06	126.94	120.56
38	Lb	584	ARG	C-N-CA	5.06	126.94	120.56
41	Le	544	VAL	CA-C-N	5.06	127.02	120.44
41	Le	544	VAL	C-N-CA	5.06	127.02	120.44
43	Lg	137	LEU	CA-C-N	5.06	127.02	120.44
43	Lg	137	LEU	C-N-CA	5.06	127.02	120.44
43	Lg	193	GLU	CA-C-N	5.06	127.02	120.44
43	Lg	193	GLU	C-N-CA	5.06	127.02	120.44
45	Li	634	GLN	CA-C-N	5.06	127.06	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
45	Li	634	GLN	C-N-CA	5.06	127.06	120.28
49	Lm	403	ASP	CA-C-N	5.06	127.43	120.39
49	Lm	403	ASP	C-N-CA	5.06	127.43	120.39
51	Lo	82	ARG	CG-CD-NE	5.06	123.14	112.00
54	Lr	163	TYR	N-CA-CB	5.06	117.56	110.12
61	Ly	515	GLY	CA-C-N	5.06	130.53	122.94
61	Ly	515	GLY	C-N-CA	5.06	130.53	122.94
61	Ly	532	VAL	CA-C-N	5.06	130.17	122.98
61	Ly	532	VAL	C-N-CA	5.06	130.17	122.98
28	LR	66	PRO	CA-C-N	5.06	127.06	120.28
28	LR	66	PRO	C-N-CA	5.06	127.06	120.28
29	LS	3	ARG	CG-CD-NE	5.06	123.14	112.00
35	LY	256	LYS	N-CA-CB	5.06	117.35	110.01
38	Lb	368	ALA	CA-C-N	5.06	127.02	120.44
38	Lb	368	ALA	C-N-CA	5.06	127.02	120.44
38	Lb	630	GLN	N-CA-CB	5.06	117.35	110.01
1	L0	542	GLU	CA-C-N	5.06	127.02	120.44
1	L0	542	GLU	C-N-CA	5.06	127.02	120.44
1	L0	595	TRP	N-CA-CB	5.06	117.35	110.01
1	L0	601	GLN	N-CA-CB	5.06	117.35	110.01
4	L3	499	GLY	CA-C-N	5.06	127.39	120.46
4	L3	499	GLY	C-N-CA	5.06	127.39	120.46
10	L9	1	MET	CA-C-N	5.06	130.51	122.62
10	L9	1	MET	C-N-CA	5.06	130.51	122.62
22	LL	291	SER	N-CA-CB	5.06	117.35	110.01
29	LS	6	LYS	CA-CB-CG	5.06	124.22	114.10
29	LS	57	MET	CA-C-N	5.06	131.02	122.87
29	LS	57	MET	C-N-CA	5.06	131.02	122.87
34	LX	125	ARG	CG-CD-NE	5.06	123.13	112.00
40	Ld	381	ASN	CA-C-N	5.06	127.02	120.44
40	Ld	381	ASN	C-N-CA	5.06	127.02	120.44
40	Ld	527	GLU	CA-C-N	5.06	127.02	120.44
40	Ld	527	GLU	C-N-CA	5.06	127.02	120.44
52	Lp	692	ILE	CA-C-N	5.06	127.02	120.44
52	Lp	692	ILE	C-N-CA	5.06	127.02	120.44
56	Lt	254	MET	N-CA-CB	5.06	117.35	110.01
61	Ly	290	ARG	CG-CD-NE	5.06	123.13	112.00
1	L0	409	ALA	CA-C-N	5.06	127.12	120.60
1	L0	409	ALA	C-N-CA	5.06	127.12	120.60
4	L3	639	PRO	CA-C-N	5.06	130.51	122.62
4	L3	639	PRO	C-N-CA	5.06	130.51	122.62
20	LJ	196	SER	N-CA-CB	5.06	117.34	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
27	LQ	376	LYS	CA-C-N	5.06	127.06	120.28
27	LQ	376	LYS	C-N-CA	5.06	127.06	120.28
32	LV	960	LYS	CA-C-N	5.06	127.02	120.44
32	LV	960	LYS	C-N-CA	5.06	127.02	120.44
36	LZ	5	ARG	CG-CD-NE	5.06	123.13	112.00
37	La	78	ARG	CG-CD-NE	5.06	123.12	112.00
38	Lb	735	GLU	CA-CB-CG	5.06	124.22	114.10
38	Lb	768	GLU	N-CA-CB	5.06	117.34	110.01
44	Lh	436	ARG	CG-CD-NE	5.06	123.13	112.00
46	Lj	65	VAL	CA-C-N	5.06	127.56	120.28
46	Lj	65	VAL	C-N-CA	5.06	127.56	120.28
46	Lj	97	ARG	CA-CB-CG	5.06	124.22	114.10
51	Lo	145	PHE	N-CA-CB	5.06	117.34	110.01
54	Lr	179	LEU	N-CA-CB	5.06	117.56	110.12
63	UA	233	LEU	CA-C-N	5.06	127.06	120.28
63	UA	233	LEU	C-N-CA	5.06	127.06	120.28
64	UB	316	ARG	CA-CB-CG	5.06	124.22	114.10
1	L0	598	LYS	N-CA-CB	5.06	117.34	110.01
3	L2	190	VAL	CA-C-N	5.06	127.06	120.28
3	L2	190	VAL	C-N-CA	5.06	127.06	120.28
14	LD	375	GLN	N-CA-CB	5.06	117.34	110.01
24	LN	247	VAL	N-CA-CB	5.06	115.93	110.62
25	LO	318	PRO	CA-C-N	5.06	130.02	122.99
25	LO	318	PRO	C-N-CA	5.06	130.02	122.99
46	Lj	37	PRO	CA-C-N	5.06	127.56	120.28
46	Lj	37	PRO	C-N-CA	5.06	127.56	120.28
52	Lp	447	LYS	CB-CG-CD	5.06	122.93	111.30
56	Lt	260	HIS	CA-C-N	5.06	127.01	120.44
56	Lt	260	HIS	C-N-CA	5.06	127.01	120.44
61	Ly	503	LYS	CA-CB-CG	5.06	124.21	114.10
64	UB	229	GLY	N-CA-C	5.06	118.49	110.96
5	L4	282	LEU	N-CA-CB	5.05	117.34	110.01
11	LA	88	LEU	CA-C-N	5.05	127.01	120.44
11	LA	88	LEU	C-N-CA	5.05	127.01	120.44
15	LE	396	PHE	CA-CB-CG	5.05	118.86	113.80
32	LV	370	ARG	CG-CD-NE	5.05	123.12	112.00
32	LV	965	GLY	CA-C-N	5.05	130.52	122.59
32	LV	965	GLY	C-N-CA	5.05	130.52	122.59
38	Lb	597	LEU	CA-C-N	5.05	127.01	120.44
38	Lb	597	LEU	C-N-CA	5.05	127.01	120.44
38	Lb	741	LEU	CA-C-N	5.05	127.99	120.31
38	Lb	741	LEU	C-N-CA	5.05	127.99	120.31

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
44	Lh	306	LYS	CA-CB-CG	5.05	124.21	114.10
44	Lh	700	PHE	CA-C-N	5.05	127.01	120.44
44	Lh	700	PHE	C-N-CA	5.05	127.01	120.44
47	Lk	547	GLN	CA-C-N	5.05	127.01	120.44
47	Lk	547	GLN	C-N-CA	5.05	127.01	120.44
51	Lo	347	ARG	CG-CD-NE	5.05	123.12	112.00
57	Lu	256	ARG	CA-CB-CG	5.05	124.21	114.10
70	UH	272	LYS	CA-CB-CG	5.05	124.21	114.10
20	LJ	419	SER	CA-C-N	5.05	127.56	120.28
20	LJ	419	SER	C-N-CA	5.05	127.56	120.28
21	LK	114	LYS	CA-C-N	5.05	127.01	120.44
21	LK	114	LYS	C-N-CA	5.05	127.01	120.44
32	LV	797	HIS	ND1-CG-CD2	-5.05	101.05	106.10
36	LZ	110	ARG	CG-CD-NE	5.05	123.12	112.00
53	Lq	560	GLN	CA-C-N	5.05	127.30	120.38
53	Lq	560	GLN	C-N-CA	5.05	127.30	120.38
91	lJ	22	C	O5'-C5'-C4'	5.05	119.08	111.50
2	L1	509	LYS	CA-CB-CG	5.05	124.20	114.10
11	LA	94	ARG	CA-C-N	5.05	127.38	120.46
11	LA	94	ARG	C-N-CA	5.05	127.38	120.46
20	LJ	50	CYS	CA-C-N	5.05	127.38	120.46
20	LJ	50	CYS	C-N-CA	5.05	127.38	120.46
20	LJ	195	LEU	CA-C-N	5.05	127.01	120.44
20	LJ	195	LEU	C-N-CA	5.05	127.01	120.44
20	LJ	213	ARG	CG-CD-NE	5.05	123.11	112.00
22	LL	318	VAL	CA-C-N	5.05	130.38	123.46
22	LL	318	VAL	C-N-CA	5.05	130.38	123.46
22	LL	528	GLN	CA-CB-CG	5.05	124.20	114.10
25	LO	175	SER	CA-C-N	5.05	130.18	122.65
25	LO	175	SER	C-N-CA	5.05	130.18	122.65
32	LV	920	HIS	ND1-CG-CD2	-5.05	101.05	106.10
39	Lc	593	ALA	CA-C-N	5.05	127.36	120.54
39	Lc	593	ALA	C-N-CA	5.05	127.36	120.54
41	Le	443	SER	CA-C-N	5.05	127.38	120.46
41	Le	443	SER	C-N-CA	5.05	127.38	120.46
42	Lf	343	GLY	CA-C-N	5.05	130.32	122.49
42	Lf	343	GLY	C-N-CA	5.05	130.32	122.49
45	Li	662	ARG	CA-CB-CG	5.05	124.20	114.10
53	Lq	501	LEU	CA-C-N	5.05	127.01	120.44
53	Lq	501	LEU	C-N-CA	5.05	127.01	120.44
56	Lt	70	LEU	N-CA-CB	5.05	117.33	110.01
56	Lt	153	PRO	CA-C-N	5.05	127.94	120.82

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
56	Lt	153	PRO	C-N-CA	5.05	127.94	120.82
67	UE	145	LYS	CA-CB-CG	5.05	124.20	114.10
5	L4	587	ARG	N-CA-CB	5.05	117.33	110.01
8	L7	84	PHE	CA-C-N	5.05	130.29	122.26
8	L7	84	PHE	C-N-CA	5.05	130.29	122.26
12	LB	95	ALA	CA-C-N	5.05	127.00	120.44
12	LB	95	ALA	C-N-CA	5.05	127.00	120.44
14	LD	584	PRO	CA-C-N	5.05	127.00	120.44
14	LD	584	PRO	C-N-CA	5.05	127.00	120.44
20	LJ	70	ALA	CA-C-N	5.05	127.00	120.44
20	LJ	70	ALA	C-N-CA	5.05	127.00	120.44
20	LJ	278	TYR	CA-C-N	5.05	126.92	120.56
20	LJ	278	TYR	C-N-CA	5.05	126.92	120.56
20	LJ	413	MET	N-CA-CB	5.05	117.33	110.01
20	LJ	418	ARG	CA-C-N	5.05	127.00	120.44
20	LJ	418	ARG	C-N-CA	5.05	127.00	120.44
21	LK	248	LYS	N-CA-CB	5.05	117.54	110.12
23	LM	47	VAL	CA-C-N	5.05	127.41	120.39
23	LM	47	VAL	C-N-CA	5.05	127.41	120.39
23	LM	128	SER	CA-C-N	5.05	127.00	120.44
23	LM	128	SER	C-N-CA	5.05	127.00	120.44
24	LN	315	LEU	CA-C-N	5.05	127.05	120.28
24	LN	315	LEU	C-N-CA	5.05	127.05	120.28
25	LO	121	ARG	CA-C-N	5.05	128.75	121.18
25	LO	121	ARG	C-N-CA	5.05	128.75	121.18
26	LP	88	ASN	N-CA-CB	5.05	117.46	109.94
27	LQ	403	ARG	CG-CD-NE	5.05	123.11	112.00
31	LU	304	TRP	N-CA-CB	5.05	117.33	110.01
32	LV	480	LEU	N-CA-CB	5.05	117.33	110.01
39	Lc	499	ILE	N-CA-CB	5.05	116.46	110.55
41	Le	510	ARG	CA-CB-CG	5.05	124.20	114.10
41	Le	573	ARG	CG-CD-NE	5.05	123.11	112.00
42	Lf	330	GLN	N-CA-CB	5.05	117.33	110.01
51	Lo	174	ALA	CA-C-N	5.05	127.00	120.44
51	Lo	174	ALA	C-N-CA	5.05	127.00	120.44
52	Lp	457	LEU	N-CA-CB	5.05	117.33	110.01
53	Lq	263	THR	CA-C-N	5.05	127.00	120.44
53	Lq	263	THR	C-N-CA	5.05	127.00	120.44
61	Ly	543	ARG	CA-CB-CG	5.05	124.20	114.10
64	UB	337	GLU	N-CA-CB	5.05	117.54	110.12
68	UF	35	SER	CA-C-N	5.05	127.00	120.44
68	UF	35	SER	C-N-CA	5.05	127.00	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
69	UG	370	ILE	N-CA-CB	5.05	116.11	110.51
20	LJ	174	PHE	N-CA-CB	5.05	117.33	110.01
20	LJ	290	ALA	CA-C-N	5.05	130.50	122.62
20	LJ	290	ALA	C-N-CA	5.05	130.50	122.62
29	LS	17	ARG	CB-CG-CD	5.05	122.91	111.30
36	LZ	50	ARG	CG-CD-NE	5.05	123.11	112.00
38	Lb	302	GLN	CA-C-N	5.05	128.35	120.68
38	Lb	302	GLN	C-N-CA	5.05	128.35	120.68
38	Lb	713	PHE	CA-C-N	5.05	127.00	120.44
38	Lb	713	PHE	C-N-CA	5.05	127.00	120.44
45	Li	358	SER	CA-C-N	5.05	127.00	120.44
45	Li	358	SER	C-N-CA	5.05	127.00	120.44
48	Ll	33	ARG	CG-CD-NE	5.05	123.11	112.00
54	Lr	182	ARG	CA-C-N	5.05	126.92	120.56
54	Lr	182	ARG	C-N-CA	5.05	126.92	120.56
15	LE	376	ARG	CG-CD-NE	5.05	123.10	112.00
22	LL	244	SER	CA-C-N	5.05	127.00	120.44
22	LL	244	SER	C-N-CA	5.05	127.00	120.44
24	LN	275	PHE	CA-C-N	5.05	130.51	122.74
24	LN	275	PHE	C-N-CA	5.05	130.51	122.74
38	Lb	305	ARG	N-CA-CB	5.05	117.28	109.91
40	Ld	529	GLN	CA-C-N	5.05	127.00	120.44
40	Ld	529	GLN	C-N-CA	5.05	127.00	120.44
41	Le	449	LEU	N-CA-CB	5.05	117.33	110.01
42	Lf	194	ASN	N-CA-CB	5.05	117.41	109.69
52	Lp	531	GLU	CA-C-N	5.05	130.57	122.50
52	Lp	531	GLU	C-N-CA	5.05	130.57	122.50
53	Lq	258	LYS	CA-C-N	5.05	127.04	120.28
53	Lq	258	LYS	C-N-CA	5.05	127.04	120.28
57	Lu	471	VAL	CA-C-N	5.05	130.28	122.26
57	Lu	471	VAL	C-N-CA	5.05	130.28	122.26
1	L0	266	PRO	CA-C-N	5.04	129.04	121.72
1	L0	266	PRO	C-N-CA	5.04	129.04	121.72
11	LA	171	ILE	N-CA-CB	5.04	116.45	110.55
21	LK	188	GLN	CA-C-N	5.04	127.04	120.28
21	LK	188	GLN	C-N-CA	5.04	127.04	120.28
25	LO	151	VAL	N-CA-CB	5.04	116.03	110.53
29	LS	102	GLY	CA-C-N	5.04	127.92	120.91
29	LS	102	GLY	C-N-CA	5.04	127.92	120.91
38	Lb	330	TRP	CA-C-N	5.04	127.29	120.38
38	Lb	330	TRP	C-N-CA	5.04	127.29	120.38
40	Ld	343	LEU	CA-C-N	5.04	127.00	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
40	Ld	343	LEU	C-N-CA	5.04	127.00	120.44
52	Lp	623	ARG	N-CA-CB	5.04	117.33	110.01
56	Lt	242	LEU	CA-C-N	5.04	127.00	120.44
56	Lt	242	LEU	C-N-CA	5.04	127.00	120.44
57	Lu	463	THR	CA-C-N	5.04	129.03	121.72
57	Lu	463	THR	C-N-CA	5.04	129.03	121.72
66	UD	194	GLY	CA-C-N	5.04	130.31	122.49
66	UD	194	GLY	C-N-CA	5.04	130.31	122.49
4	L3	414	ASP	N-CA-CB	5.04	117.32	110.01
20	LJ	251	LYS	CA-C-N	5.04	127.00	120.44
20	LJ	251	LYS	C-N-CA	5.04	127.00	120.44
24	LN	256	ARG	CG-CD-NE	5.04	123.09	112.00
29	LS	13	ASN	CA-C-N	5.04	127.04	120.28
29	LS	13	ASN	C-N-CA	5.04	127.04	120.28
32	LV	481	LEU	CA-C-N	5.04	127.00	120.44
32	LV	481	LEU	C-N-CA	5.04	127.00	120.44
32	LV	1080	ARG	CA-CB-CG	5.04	124.19	114.10
36	LZ	182	GLU	N-CA-CB	5.04	117.32	110.01
38	Lb	746	ARG	CG-CD-NE	5.04	123.10	112.00
38	Lb	773	LEU	CA-C-N	5.04	127.00	120.44
38	Lb	773	LEU	C-N-CA	5.04	127.00	120.44
40	Ld	412	SER	N-CA-CB	5.04	117.53	110.12
42	Lf	192	PRO	CA-C-N	5.04	128.48	121.02
42	Lf	192	PRO	C-N-CA	5.04	128.48	121.02
45	Li	392	HIS	CA-C-N	5.04	127.00	120.44
45	Li	392	HIS	C-N-CA	5.04	127.00	120.44
46	Lj	34	GLY	CA-C-N	5.04	127.87	120.71
46	Lj	34	GLY	C-N-CA	5.04	127.87	120.71
56	Lt	218	ARG	CA-CB-CG	5.04	124.19	114.10
61	Ly	593	THR	CA-C-N	5.04	129.68	122.72
61	Ly	593	THR	C-N-CA	5.04	129.68	122.72
67	UE	134	LEU	CA-C-N	5.04	126.92	120.56
67	UE	134	LEU	C-N-CA	5.04	126.92	120.56
5	L4	276	PRO	CA-C-N	5.04	127.04	120.28
5	L4	276	PRO	C-N-CA	5.04	127.04	120.28
9	L8	151	GLU	CA-C-N	5.04	127.00	120.44
9	L8	151	GLU	C-N-CA	5.04	127.00	120.44
12	LB	97	PHE	N-CA-CB	5.04	117.32	110.01
13	LC	362	ALA	CA-C-N	5.04	127.45	120.29
13	LC	362	ALA	C-N-CA	5.04	127.45	120.29
21	LK	142	ARG	CG-CD-NE	5.04	123.09	112.00
22	LL	401	GLU	CA-C-N	5.04	130.06	122.75

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
22	LL	401	GLU	C-N-CA	5.04	130.06	122.75
27	LQ	398	ARG	CA-CB-CG	5.04	124.18	114.10
32	LV	407	ARG	CG-CD-NE	5.04	123.09	112.00
32	LV	739	ALA	CA-C-N	5.04	127.51	120.65
32	LV	739	ALA	C-N-CA	5.04	127.51	120.65
32	LV	789	GLN	OE1-CD-NE2	-5.04	117.56	122.60
35	LY	396	LEU	CA-C-N	5.04	127.45	120.29
35	LY	396	LEU	C-N-CA	5.04	127.45	120.29
35	LY	486	SER	CA-C-N	5.04	126.99	120.44
35	LY	486	SER	C-N-CA	5.04	126.99	120.44
37	La	41	ALA	CA-C-N	5.04	131.28	122.81
37	La	41	ALA	C-N-CA	5.04	131.28	122.81
38	Lb	496	SER	N-CA-CB	5.04	117.32	110.01
40	Ld	486	VAL	CA-C-N	5.04	129.03	121.72
40	Ld	486	VAL	C-N-CA	5.04	129.03	121.72
41	Le	628	ARG	N-CA-CB	5.04	117.53	110.12
41	Le	638	GLU	CB-CG-CD	5.04	121.17	112.60
45	Li	315	PRO	CA-C-N	5.04	126.99	120.44
45	Li	315	PRO	C-N-CA	5.04	126.99	120.44
89	lH	6	G	C2'-C3'-O3'	5.04	117.06	109.50
22	LL	236	ASP	CA-C-N	5.04	127.54	120.28
22	LL	236	ASP	C-N-CA	5.04	127.54	120.28
26	LP	87	GLU	N-CA-CB	5.04	117.32	110.01
32	LV	584	PHE	CA-CB-CG	5.04	118.84	113.80
32	LV	889	ARG	CA-CB-CG	5.04	124.18	114.10
53	Lq	663	ALA	CA-C-N	5.04	130.13	122.37
53	Lq	663	ALA	C-N-CA	5.04	130.13	122.37
70	UH	269	LYS	N-CA-CB	5.04	117.32	110.01
1	L0	410	ILE	N-CA-CB	5.04	116.10	110.51
33	LW	226	PRO	CA-C-N	5.04	127.39	120.39
33	LW	226	PRO	C-N-CA	5.04	127.39	120.39
45	Li	394	VAL	CA-C-N	5.04	127.03	120.28
45	Li	394	VAL	C-N-CA	5.04	127.03	120.28
51	Lo	264	ARG	CA-C-N	5.04	127.86	120.71
51	Lo	264	ARG	C-N-CA	5.04	127.86	120.71
52	Lp	709	ARG	CB-CG-CD	5.04	122.89	111.30
68	UF	32	ARG	CB-CG-CD	5.04	122.89	111.30
75	l3	24	C	C1'-C2'-O2'	5.04	115.96	108.40
9	L8	159	GLY	CA-C-N	5.04	126.99	120.44
9	L8	159	GLY	C-N-CA	5.04	126.99	120.44
22	LL	907	LEU	N-CA-CB	5.04	117.53	110.12
25	LO	121	ARG	CG-CD-NE	5.04	123.08	112.00

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
36	LZ	67	CYS	N-CA-CB	5.04	117.26	109.91
38	Lb	494	ARG	CA-CB-CG	5.04	124.17	114.10
40	Ld	532	LEU	CA-C-N	5.04	126.99	120.44
40	Ld	532	LEU	C-N-CA	5.04	126.99	120.44
44	Lh	515	ARG	CA-C-N	5.04	126.99	120.44
44	Lh	515	ARG	C-N-CA	5.04	126.99	120.44
52	Lp	465	GLU	CA-CB-CG	5.04	124.17	114.10
1	L0	573	LEU	CA-C-N	5.04	127.03	120.28
1	L0	573	LEU	C-N-CA	5.04	127.03	120.28
13	LC	129	PRO	CA-C-N	5.04	126.99	120.44
13	LC	129	PRO	C-N-CA	5.04	126.99	120.44
20	LJ	80	LEU	CA-C-N	5.04	127.44	120.29
20	LJ	80	LEU	C-N-CA	5.04	127.44	120.29
35	LY	389	ILE	CA-C-N	5.04	127.03	120.28
35	LY	389	ILE	C-N-CA	5.04	127.03	120.28
37	La	210	VAL	N-CA-CB	5.04	115.76	110.17
39	Lc	370	SER	CA-C-N	5.04	130.40	122.49
39	Lc	370	SER	C-N-CA	5.04	130.40	122.49
39	Lc	415	GLU	N-CA-CB	5.04	117.47	109.82
40	Ld	327	LEU	CA-C-N	5.04	126.99	120.44
40	Ld	327	LEU	C-N-CA	5.04	126.99	120.44
44	Lh	425	GLN	OE1-CD-NE2	-5.04	117.56	122.60
44	Lh	639	ARG	CA-C-N	5.04	127.36	120.46
44	Lh	639	ARG	C-N-CA	5.04	127.36	120.46
55	Ls	571	LEU	CA-C-N	5.04	126.99	120.44
55	Ls	571	LEU	C-N-CA	5.04	126.99	120.44
61	Ly	464	ARG	N-CA-CB	5.04	117.86	109.60
11	LA	130	ASP	CA-C-N	5.03	130.49	122.74
11	LA	130	ASP	C-N-CA	5.03	130.49	122.74
27	LQ	406	ASN	N-CA-CB	5.03	117.83	110.58
32	LV	407	ARG	N-CA-CB	5.03	117.31	110.01
32	LV	583	ASP	CA-C-N	5.03	126.98	120.44
32	LV	583	ASP	C-N-CA	5.03	126.98	120.44
32	LV	781	ALA	CA-C-N	5.03	126.98	120.44
32	LV	781	ALA	C-N-CA	5.03	126.98	120.44
35	LY	373	GLY	CA-C-N	5.03	126.98	120.44
35	LY	373	GLY	C-N-CA	5.03	126.98	120.44
40	Ld	516	TYR	N-CA-CB	5.03	117.31	110.01
41	Le	560	ASN	CA-C-N	5.03	127.28	120.38
41	Le	560	ASN	C-N-CA	5.03	127.28	120.38
1	L0	355	CYS	N-CA-CB	5.03	117.31	110.01
13	LC	157	THR	CA-C-N	5.03	130.49	122.59

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
13	LC	157	THR	C-N-CA	5.03	130.49	122.59
20	LJ	145	GLU	N-CA-CB	5.03	117.31	110.01
22	LL	333	LYS	CA-CB-CG	5.03	124.16	114.10
32	LV	1070	ASN	N-CA-CB	5.03	117.31	110.01
36	LZ	57	ALA	CA-C-N	5.03	128.84	120.94
36	LZ	57	ALA	C-N-CA	5.03	128.84	120.94
39	Lc	142	ARG	N-CA-CB	5.03	117.52	110.12
51	Lo	114	ARG	CG-CD-NE	5.03	123.07	112.00
53	Lq	555	LYS	CA-C-N	5.03	127.02	120.28
53	Lq	555	LYS	C-N-CA	5.03	127.02	120.28
59	Lw	166	ARG	CA-C-N	5.03	126.98	120.44
59	Lw	166	ARG	C-N-CA	5.03	126.98	120.44
68	UF	13	CYS	CA-C-N	5.03	126.98	120.44
68	UF	13	CYS	C-N-CA	5.03	126.98	120.44
1	L0	574	GLN	N-CA-CB	5.03	117.52	110.12
3	L2	128	ARG	CA-CB-CG	5.03	124.16	114.10
9	L8	98	LEU	N-CA-CB	5.03	117.26	109.91
13	LC	175	GLU	CA-C-N	5.03	129.23	120.68
13	LC	175	GLU	C-N-CA	5.03	129.23	120.68
13	LC	283	LEU	N-CA-CB	5.03	117.30	110.01
20	LJ	418	ARG	CG-CD-NE	5.03	123.06	112.00
24	LN	259	ARG	CA-C-N	5.03	126.98	120.44
24	LN	259	ARG	C-N-CA	5.03	126.98	120.44
31	LU	285	ARG	CA-C-N	5.03	130.21	122.77
31	LU	285	ARG	C-N-CA	5.03	130.21	122.77
31	LU	300	LYS	CA-CB-CG	5.03	124.16	114.10
36	LZ	106	ARG	CG-CD-NE	5.03	123.07	112.00
36	LZ	111	THR	CA-C-N	5.03	129.47	122.23
36	LZ	111	THR	C-N-CA	5.03	129.47	122.23
36	LZ	181	GLY	CA-C-N	5.03	126.98	120.44
36	LZ	181	GLY	C-N-CA	5.03	126.98	120.44
38	Lb	694	VAL	CA-C-N	5.03	126.98	120.44
38	Lb	694	VAL	C-N-CA	5.03	126.98	120.44
39	Lc	392	GLU	CA-C-N	5.03	127.02	120.28
39	Lc	392	GLU	C-N-CA	5.03	127.02	120.28
39	Lc	437	LEU	CA-C-N	5.03	126.98	120.44
39	Lc	437	LEU	C-N-CA	5.03	126.98	120.44
39	Lc	631	PRO	CA-C-N	5.03	127.52	120.28
39	Lc	631	PRO	C-N-CA	5.03	127.52	120.28
40	Ld	496	GLU	N-CA-CB	5.03	117.31	110.01
46	Lj	72	ALA	CA-C-N	5.03	127.43	120.29
46	Lj	72	ALA	C-N-CA	5.03	127.43	120.29

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
53	Lq	691	TYR	CA-C-N	5.03	129.23	120.68
53	Lq	691	TYR	C-N-CA	5.03	129.23	120.68
63	UA	234	GLN	CA-C-N	5.03	127.02	120.28
63	UA	234	GLN	C-N-CA	5.03	127.02	120.28
34	LX	124	LYS	CA-C-N	5.03	127.85	120.71
34	LX	124	LYS	C-N-CA	5.03	127.85	120.71
38	Lb	290	GLY	CA-C-N	5.03	127.85	120.71
38	Lb	290	GLY	C-N-CA	5.03	127.85	120.71
38	Lb	580	LEU	CA-C-N	5.03	126.98	120.44
38	Lb	580	LEU	C-N-CA	5.03	126.98	120.44
38	Lb	640	LYS	CA-C-N	5.03	129.79	123.10
38	Lb	640	LYS	C-N-CA	5.03	129.79	123.10
39	Lc	204	ARG	CG-CD-NE	5.03	123.06	112.00
41	Le	547	ALA	CA-C-N	5.03	126.98	120.44
41	Le	547	ALA	C-N-CA	5.03	126.98	120.44
45	Li	664	GLN	N-CA-CB	5.03	117.30	110.01
49	Lm	414	TYR	N-CA-CB	5.03	117.65	110.06
67	UE	200	LEU	N-CA-CB	5.03	117.30	110.01
3	L2	47	VAL	CA-C-N	5.03	127.02	120.28
3	L2	47	VAL	C-N-CA	5.03	127.02	120.28
12	LB	58	ALA	CA-C-N	5.03	126.97	120.44
12	LB	58	ALA	C-N-CA	5.03	126.97	120.44
20	LJ	7	ARG	CA-C-N	5.03	127.43	120.29
20	LJ	7	ARG	C-N-CA	5.03	127.43	120.29
22	LL	692	ARG	CA-C-N	5.03	126.98	120.44
22	LL	692	ARG	C-N-CA	5.03	126.98	120.44
26	LP	281	ARG	CG-CD-NE	5.03	123.06	112.00
27	LQ	398	ARG	N-CA-CB	5.03	117.42	109.83
27	LQ	408	GLY	CA-C-N	5.03	127.02	120.28
27	LQ	408	GLY	C-N-CA	5.03	127.02	120.28
32	LV	244	HIS	CA-C-N	5.03	127.02	120.28
32	LV	244	HIS	C-N-CA	5.03	127.02	120.28
32	LV	787	ALA	CA-C-N	5.03	126.98	120.44
32	LV	787	ALA	C-N-CA	5.03	126.98	120.44
38	Lb	754	LEU	N-CA-CB	5.03	117.30	110.01
40	Ld	342	VAL	CA-C-N	5.03	127.02	120.28
40	Ld	342	VAL	C-N-CA	5.03	127.02	120.28
45	Li	631	ARG	CA-C-N	5.03	126.89	120.56
45	Li	631	ARG	C-N-CA	5.03	126.89	120.56
48	Ll	63	LYS	CA-C-N	5.03	130.96	122.87
48	Ll	63	LYS	C-N-CA	5.03	130.96	122.87
54	Lr	262	LYS	N-CA-CB	5.03	117.55	110.36

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
58	Lv	29	THR	CA-C-N	5.03	127.02	120.28
58	Lv	29	THR	C-N-CA	5.03	127.02	120.28
61	Ly	564	GLU	CA-CB-CG	5.03	124.15	114.10
2	L1	502	LYS	CA-CB-CG	5.03	124.15	114.10
4	L3	505	ARG	CG-CD-NE	5.03	123.06	112.00
4	L3	667	TYR	CA-C-N	5.03	130.87	122.73
4	L3	667	TYR	C-N-CA	5.03	130.87	122.73
4	L3	724	ARG	N-CA-CB	5.03	117.51	110.12
9	L8	74	SER	CA-C-N	5.03	127.02	120.28
9	L8	74	SER	C-N-CA	5.03	127.02	120.28
9	L8	115	LEU	CA-C-N	5.03	127.85	120.71
9	L8	115	LEU	C-N-CA	5.03	127.85	120.71
12	LB	8	ILE	CA-C-N	5.03	127.02	120.28
12	LB	8	ILE	C-N-CA	5.03	127.02	120.28
13	LC	474	LEU	CA-C-N	5.03	126.97	120.44
13	LC	474	LEU	C-N-CA	5.03	126.97	120.44
16	LF	162	LYS	CA-CB-CG	5.03	124.15	114.10
20	LJ	291	ARG	CG-CD-NE	5.03	123.06	112.00
23	LM	39	GLU	N-CA-CB	5.03	117.51	110.12
38	Lb	691	MET	CA-C-N	5.03	127.01	120.28
38	Lb	691	MET	C-N-CA	5.03	127.01	120.28
43	Lg	99	GLN	CA-C-N	5.03	126.97	120.44
43	Lg	99	GLN	C-N-CA	5.03	126.97	120.44
44	Lh	637	ARG	CB-CG-CD	5.03	122.86	111.30
46	Lj	98	GLU	N-CA-CB	5.03	117.30	110.01
48	Ll	30	PHE	N-CA-CB	5.03	117.30	110.01
64	UB	341	ILE	CA-C-N	5.03	126.97	120.44
64	UB	341	ILE	C-N-CA	5.03	126.97	120.44
96	lO	16	A	C2'-C3'-O3'	5.03	117.04	109.50
11	LA	174	ARG	N-CA-CB	5.02	117.60	110.06
20	LJ	77	ASP	CA-C-N	5.02	126.97	120.44
20	LJ	77	ASP	C-N-CA	5.02	126.97	120.44
32	LV	486	ARG	CB-CG-CD	5.02	122.86	111.30
41	Le	614	ALA	CA-C-N	5.02	126.97	120.44
41	Le	614	ALA	C-N-CA	5.02	126.97	120.44
44	Lh	344	PRO	CA-C-N	5.02	129.11	120.72
44	Lh	344	PRO	C-N-CA	5.02	129.11	120.72
52	Lp	517	ARG	CG-CD-NE	5.02	123.05	112.00
55	Ls	362	ARG	CA-CB-CG	5.02	124.15	114.10
61	Ly	360	ARG	CA-C-N	5.02	129.70	122.16
61	Ly	360	ARG	C-N-CA	5.02	129.70	122.16
62	Lz	184	ALA	CA-C-N	5.02	130.48	122.74

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
62	Lz	184	ALA	C-N-CA	5.02	130.48	122.74
3	L2	41	ARG	CG-CD-NE	5.02	123.05	112.00
3	L2	191	ALA	CA-C-N	5.02	126.97	120.44
3	L2	191	ALA	C-N-CA	5.02	126.97	120.44
19	LI	29	PRO	CA-C-N	5.02	127.31	120.63
19	LI	29	PRO	C-N-CA	5.02	127.31	120.63
20	LJ	293	PRO	CA-C-N	5.02	131.73	121.48
20	LJ	293	PRO	C-N-CA	5.02	131.73	121.48
28	LR	68	ASN	CA-C-N	5.02	127.34	120.46
28	LR	68	ASN	C-N-CA	5.02	127.34	120.46
32	LV	590	ALA	CA-C-N	5.02	126.97	120.44
32	LV	590	ALA	C-N-CA	5.02	126.97	120.44
32	LV	754	SER	CA-C-N	5.02	126.97	120.44
32	LV	754	SER	C-N-CA	5.02	126.97	120.44
33	LW	381	GLY	CA-C-N	5.02	128.33	120.75
33	LW	381	GLY	C-N-CA	5.02	128.33	120.75
44	Lh	633	LYS	N-CA-CB	5.02	117.29	110.01
45	Li	630	GLU	CA-C-N	5.02	126.97	120.44
45	Li	630	GLU	C-N-CA	5.02	126.97	120.44
47	Lk	412	SER	N-CA-CB	5.02	117.29	110.01
49	Lm	422	THR	CA-C-N	5.02	126.97	120.44
49	Lm	422	THR	C-N-CA	5.02	126.97	120.44
51	Lo	224	ARG	CB-CG-CD	5.02	122.85	111.30
52	Lp	500	GLN	CA-CB-CG	5.02	124.14	114.10
56	Lt	124	ALA	CA-C-N	5.02	126.97	120.44
56	Lt	124	ALA	C-N-CA	5.02	126.97	120.44
57	Lu	470	LYS	CA-C-N	5.02	127.89	120.91
57	Lu	470	LYS	C-N-CA	5.02	127.89	120.91
59	Lw	166	ARG	CA-CB-CG	5.02	124.14	114.10
1	L0	563	GLN	CA-CB-CG	5.02	124.14	114.10
1	L0	620	LYS	CA-C-N	5.02	127.01	120.28
1	L0	620	LYS	C-N-CA	5.02	127.01	120.28
9	L8	144	GLU	CA-C-N	5.02	126.97	120.44
9	L8	144	GLU	C-N-CA	5.02	126.97	120.44
22	LL	330	VAL	CA-C-N	5.02	126.97	120.44
22	LL	330	VAL	C-N-CA	5.02	126.97	120.44
22	LL	687	SER	CA-C-N	5.02	126.97	120.44
22	LL	687	SER	C-N-CA	5.02	126.97	120.44
28	LR	25	ARG	CG-CD-NE	5.02	123.05	112.00
29	LS	165	PRO	CA-C-N	5.02	130.20	122.77
29	LS	165	PRO	C-N-CA	5.02	130.20	122.77
38	Lb	593	ASP	CA-C-N	5.02	127.01	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
38	Lb	593	ASP	C-N-CA	5.02	127.01	120.28
40	Ld	466	GLN	CA-C-N	5.02	129.61	122.08
40	Ld	466	GLN	C-N-CA	5.02	129.61	122.08
42	Lf	355	ALA	CA-C-N	5.02	126.89	120.56
42	Lf	355	ALA	C-N-CA	5.02	126.89	120.56
68	UF	14	LYS	CA-C-N	5.02	126.97	120.44
68	UF	14	LYS	C-N-CA	5.02	126.97	120.44
1	L0	598	LYS	CA-C-N	5.02	126.97	120.44
1	L0	598	LYS	C-N-CA	5.02	126.97	120.44
3	L2	48	LEU	N-CA-CB	5.02	117.50	110.12
5	L4	242	ALA	CA-C-N	5.02	126.97	120.44
5	L4	242	ALA	C-N-CA	5.02	126.97	120.44
12	LB	61	ARG	CA-C-N	5.02	126.97	120.44
12	LB	61	ARG	C-N-CA	5.02	126.97	120.44
22	LL	293	ASN	N-CA-CB	5.02	117.29	110.01
26	LP	172	GLN	CA-CB-CG	5.02	124.14	114.10
32	LV	479	ARG	CA-C-N	5.02	126.97	120.44
32	LV	479	ARG	C-N-CA	5.02	126.97	120.44
32	LV	956	VAL	CA-C-N	5.02	126.97	120.44
32	LV	956	VAL	C-N-CA	5.02	126.97	120.44
33	LW	461	ALA	CA-C-N	5.02	129.82	122.39
33	LW	461	ALA	C-N-CA	5.02	129.82	122.39
34	LX	108	LYS	CA-C-N	5.02	127.90	120.82
34	LX	108	LYS	C-N-CA	5.02	127.90	120.82
35	LY	359	GLY	CA-C-N	5.02	130.24	122.01
35	LY	359	GLY	C-N-CA	5.02	130.24	122.01
38	Lb	345	LYS	N-CA-CB	5.02	117.29	110.01
38	Lb	719	PRO	CA-C-N	5.02	129.16	120.58
38	Lb	719	PRO	C-N-CA	5.02	129.16	120.58
43	Lg	91	GLU	N-CA-CB	5.02	117.73	109.95
44	Lh	684	ASN	CA-C-N	5.02	129.47	121.99
44	Lh	684	ASN	C-N-CA	5.02	129.47	121.99
46	Lj	47	LEU	N-CA-CB	5.02	117.29	110.01
51	Lo	117	ILE	N-CA-CB	5.02	116.48	110.31
59	Lw	168	LYS	CB-CG-CD	5.02	122.84	111.30
61	Ly	653	GLU	CA-CB-CG	5.02	124.14	114.10
1	L0	346	PRO	CA-C-N	5.02	128.82	120.94
1	L0	346	PRO	C-N-CA	5.02	128.82	120.94
1	L0	425	GLU	CA-CB-CG	5.02	124.13	114.10
20	LJ	177	ILE	CA-C-N	5.02	126.88	120.56
20	LJ	177	ILE	C-N-CA	5.02	126.88	120.56
27	LQ	393	LYS	N-CA-CB	5.02	117.28	110.01

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
32	LV	744	ASP	CA-C-N	5.02	126.96	120.44
32	LV	744	ASP	C-N-CA	5.02	126.96	120.44
32	LV	1071	GLN	CA-CB-CG	5.02	124.14	114.10
40	Ld	356	LEU	N-CA-CB	5.02	117.29	110.01
46	Lj	85	VAL	N-CA-CB	5.02	116.42	110.55
51	Lo	119	TRP	CA-C-N	5.02	129.09	120.71
51	Lo	119	TRP	C-N-CA	5.02	129.09	120.71
52	Lp	515	LYS	CA-C-N	5.02	127.94	120.31
52	Lp	515	LYS	C-N-CA	5.02	127.94	120.31
53	Lq	179	LEU	CA-C-N	5.02	127.00	120.28
53	Lq	179	LEU	C-N-CA	5.02	127.00	120.28
58	Lv	32	ALA	CA-C-N	5.02	126.96	120.44
58	Lv	32	ALA	C-N-CA	5.02	126.96	120.44
64	UB	324	LEU	CA-C-N	5.02	127.50	120.28
64	UB	324	LEU	C-N-CA	5.02	127.50	120.28
68	UF	23	ASP	N-CA-CB	5.02	117.28	110.01
69	UG	299	LEU	N-CA-CB	5.02	117.28	110.01
4	L3	620	VAL	N-CA-CB	5.02	116.42	110.55
20	LJ	376	VAL	CA-C-N	5.02	127.50	120.28
20	LJ	376	VAL	C-N-CA	5.02	127.50	120.28
35	LY	523	ARG	CA-C-N	5.02	126.96	120.44
35	LY	523	ARG	C-N-CA	5.02	126.96	120.44
38	Lb	768	GLU	CA-C-N	5.02	126.96	120.44
38	Lb	768	GLU	C-N-CA	5.02	126.96	120.44
44	Lh	701	ASP	CA-C-N	5.02	126.96	120.44
44	Lh	701	ASP	C-N-CA	5.02	126.96	120.44
52	Lp	415	ARG	N-CA-CB	5.02	117.28	110.01
54	Lr	178	ASP	CA-C-N	5.02	127.00	120.28
54	Lr	178	ASP	C-N-CA	5.02	127.00	120.28
59	Lw	13	ARG	CG-CD-NE	5.02	123.03	112.00
59	Lw	157	LYS	CA-CB-CG	5.02	124.13	114.10
61	Ly	563	GLU	CA-CB-CG	5.02	124.13	114.10
91	lJ	163	U	C1'-C2'-O2'	5.02	115.92	108.40
1	L0	381	SER	N-CA-CB	5.01	117.49	110.12
9	L8	208	PRO	CA-C-N	5.01	127.36	120.39
9	L8	208	PRO	C-N-CA	5.01	127.36	120.39
20	LJ	191	LEU	CA-C-N	5.01	126.96	120.44
20	LJ	191	LEU	C-N-CA	5.01	126.96	120.44
21	LK	121	ASP	CA-C-N	5.01	130.19	122.42
21	LK	121	ASP	C-N-CA	5.01	130.19	122.42
25	LO	11	ARG	CG-CD-NE	5.01	123.03	112.00
28	LR	35	PRO	CA-C-N	5.01	129.21	120.68

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
28	LR	35	PRO	C-N-CA	5.01	129.21	120.68
38	Lb	647	LEU	CA-C-N	5.01	126.96	120.44
38	Lb	647	LEU	C-N-CA	5.01	126.96	120.44
38	Lb	693	GLU	CA-C-N	5.01	127.33	120.46
38	Lb	693	GLU	C-N-CA	5.01	127.33	120.46
39	Lc	293	LEU	N-CA-CB	5.01	117.58	110.16
42	Lf	312	MET	CA-C-N	5.01	130.10	122.98
42	Lf	312	MET	C-N-CA	5.01	130.10	122.98
43	Lg	183	ILE	N-CA-CB	5.01	116.42	110.55
43	Lg	230	ARG	CG-CD-NE	5.01	123.03	112.00
44	Lh	564	ASN	CA-C-N	5.01	126.96	120.44
44	Lh	564	ASN	C-N-CA	5.01	126.96	120.44
49	Lm	318	LEU	CA-C-N	5.01	130.60	122.68
49	Lm	318	LEU	C-N-CA	5.01	130.60	122.68
58	Lv	40	THR	CA-C-N	5.01	130.64	122.07
58	Lv	40	THR	C-N-CA	5.01	130.64	122.07
61	Ly	653	GLU	N-CA-CB	5.01	117.36	109.69
39	Lc	309	LEU	CA-C-N	5.01	127.00	120.28
39	Lc	309	LEU	C-N-CA	5.01	127.00	120.28
5	L4	280	VAL	CA-C-N	5.01	126.96	120.44
5	L4	280	VAL	C-N-CA	5.01	126.96	120.44
12	LB	34	LEU	CA-C-N	5.01	126.96	120.44
12	LB	34	LEU	C-N-CA	5.01	126.96	120.44
17	LG	198	GLN	CA-C-N	5.01	129.33	121.76
17	LG	198	GLN	C-N-CA	5.01	129.33	121.76
20	LJ	190	SER	CA-C-N	5.01	126.95	120.44
20	LJ	190	SER	C-N-CA	5.01	126.95	120.44
20	LJ	364	GLY	CA-C-N	5.01	130.06	123.00
20	LJ	364	GLY	C-N-CA	5.01	130.06	123.00
24	LN	306	GLY	CA-C-N	5.01	131.23	122.81
24	LN	306	GLY	C-N-CA	5.01	131.23	122.81
29	LS	115	HIS	N-CA-CB	5.01	117.40	109.83
32	LV	921	HIS	ND1-CG-CD2	-5.01	101.09	106.10
34	LX	151	GLU	N-CA-CB	5.01	117.28	110.01
36	LZ	113	MET	CA-C-N	5.01	130.85	122.73
36	LZ	113	MET	C-N-CA	5.01	130.85	122.73
38	Lb	419	GLN	CA-CB-CG	5.01	124.12	114.10
38	Lb	439	LEU	CA-C-N	5.01	126.95	120.44
38	Lb	439	LEU	C-N-CA	5.01	126.95	120.44
38	Lb	842	ARG	CA-CB-CG	5.01	124.12	114.10
39	Lc	329	ASP	N-CA-CB	5.01	117.49	110.12
39	Lc	393	ASN	N-CA-CB	5.01	117.49	110.12

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	438	LEU	CA-C-N	5.01	126.95	120.44
39	Lc	438	LEU	C-N-CA	5.01	126.95	120.44
40	Ld	591	ILE	N-CA-CB	5.01	116.41	110.55
57	Lu	462	GLU	CA-C-N	5.01	127.83	120.71
57	Lu	462	GLU	C-N-CA	5.01	127.83	120.71
58	Lv	16	LYS	CB-CG-CD	5.01	122.83	111.30
1	L0	560	GLU	CA-C-N	5.01	126.95	120.44
1	L0	560	GLU	C-N-CA	5.01	126.95	120.44
3	L2	87	HIS	CA-C-N	5.01	130.25	122.49
3	L2	87	HIS	C-N-CA	5.01	130.25	122.49
6	L5	450	ARG	CA-CB-CG	5.01	124.12	114.10
9	L8	17	ARG	CA-CB-CG	5.01	124.12	114.10
11	LA	87	ARG	N-CA-CB	5.01	117.27	110.01
11	LA	155	LEU	CA-C-N	5.01	126.95	120.44
11	LA	155	LEU	C-N-CA	5.01	126.95	120.44
20	LJ	18	GLU	CA-C-N	5.01	126.95	120.44
20	LJ	18	GLU	C-N-CA	5.01	126.95	120.44
32	LV	662	ARG	CA-C-N	5.01	126.95	120.44
32	LV	662	ARG	C-N-CA	5.01	126.95	120.44
38	Lb	325	LYS	N-CA-CB	5.01	117.27	110.01
38	Lb	392	ILE	N-CA-CB	5.01	116.41	110.55
38	Lb	673	THR	CA-C-N	5.01	126.99	120.28
38	Lb	673	THR	C-N-CA	5.01	126.99	120.28
40	Ld	410	ALA	CA-C-N	5.01	127.49	120.28
40	Ld	410	ALA	C-N-CA	5.01	127.49	120.28
43	Lg	93	LYS	CB-CG-CD	5.01	122.82	111.30
55	Ls	369	SER	CA-C-N	5.01	128.81	120.94
55	Ls	369	SER	C-N-CA	5.01	128.81	120.94
56	Lt	227	PHE	N-CA-CB	5.01	117.22	109.91
59	Lw	164	GLU	CA-C-N	5.01	126.95	120.44
59	Lw	164	GLU	C-N-CA	5.01	126.95	120.44
75	l3	53	G	C1'-C2'-O2'	5.01	115.91	108.40
4	L3	421	PRO	CA-C-N	5.01	126.99	120.28
4	L3	421	PRO	C-N-CA	5.01	126.99	120.28
32	LV	794	ILE	CA-C-N	5.01	126.95	120.44
32	LV	794	ILE	C-N-CA	5.01	126.95	120.44
38	Lb	499	LEU	CA-C-N	5.01	126.95	120.44
38	Lb	499	LEU	C-N-CA	5.01	126.95	120.44
39	Lc	208	LEU	N-CA-CB	5.01	117.48	110.12
40	Ld	414	ALA	CA-C-N	5.01	126.99	120.28
40	Ld	414	ALA	C-N-CA	5.01	126.99	120.28
43	Lg	30	SER	CA-C-N	5.01	127.49	120.28

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
43	Lg	30	SER	C-N-CA	5.01	127.49	120.28
51	Lo	254	LYS	CA-C-N	5.01	130.37	122.36
51	Lo	254	LYS	C-N-CA	5.01	130.37	122.36
52	Lp	456	ARG	CA-C-N	5.01	126.95	120.44
52	Lp	456	ARG	C-N-CA	5.01	126.95	120.44
56	Lt	73	LEU	N-CA-CB	5.01	117.27	110.01
56	Lt	255	HIS	CA-C-N	5.01	126.87	120.56
56	Lt	255	HIS	C-N-CA	5.01	126.87	120.56
69	UG	310	ALA	CA-C-N	5.01	126.95	120.44
69	UG	310	ALA	C-N-CA	5.01	126.95	120.44
1	L0	600	ILE	N-CA-CB	5.01	116.41	110.55
9	L8	32	MET	N-CA-CB	5.01	117.27	110.01
21	LK	112	LEU	CA-C-N	5.01	131.50	122.64
21	LK	112	LEU	C-N-CA	5.01	131.50	122.64
23	LM	48	ARG	CA-CB-CG	5.01	124.11	114.10
26	LP	142	PHE	CA-C-N	5.01	130.43	122.62
26	LP	142	PHE	C-N-CA	5.01	130.43	122.62
38	Lb	296	ARG	CA-C-N	5.01	127.88	120.82
38	Lb	296	ARG	C-N-CA	5.01	127.88	120.82
38	Lb	326	ARG	CA-C-N	5.01	127.92	120.31
38	Lb	326	ARG	C-N-CA	5.01	127.92	120.31
40	Ld	496	GLU	CA-C-N	5.01	126.95	120.44
40	Ld	496	GLU	C-N-CA	5.01	126.95	120.44
40	Ld	626	GLN	CA-C-N	5.01	126.95	120.44
40	Ld	626	GLN	C-N-CA	5.01	126.95	120.44
52	Lp	453	GLU	N-CA-CB	5.01	117.27	110.01
52	Lp	464	GLU	CA-C-N	5.01	126.95	120.44
52	Lp	464	GLU	C-N-CA	5.01	126.95	120.44
52	Lp	496	ARG	CA-CB-CG	5.01	124.11	114.10
53	Lq	262	CYS	N-CA-CB	5.01	117.27	110.01
61	Ly	453	LEU	CA-C-N	5.01	126.95	120.44
61	Ly	453	LEU	C-N-CA	5.01	126.95	120.44
61	Ly	608	VAL	CA-C-N	5.01	127.35	120.39
61	Ly	608	VAL	C-N-CA	5.01	127.35	120.39
61	Ly	655	GLN	CA-CB-CG	5.01	124.11	114.10
13	LC	314	ALA	CA-C-N	5.00	126.95	120.44
13	LC	314	ALA	C-N-CA	5.00	126.95	120.44
57	Lu	256	ARG	CA-C-N	5.00	130.07	122.11
57	Lu	256	ARG	C-N-CA	5.00	130.07	122.11
61	Ly	550	LYS	CG-CD-CE	5.00	122.81	111.30
5	L4	200	LEU	CA-C-N	5.00	126.94	120.44
5	L4	200	LEU	C-N-CA	5.00	126.94	120.44

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
14	LD	364	ARG	CG-CD-NE	5.00	123.01	112.00
20	LJ	171	PRO	CA-C-N	5.00	126.94	120.44
20	LJ	171	PRO	C-N-CA	5.00	126.94	120.44
22	LL	289	LEU	CA-C-N	5.00	126.94	120.44
22	LL	289	LEU	C-N-CA	5.00	126.94	120.44
22	LL	315	HIS	CA-C-N	5.00	130.42	122.62
22	LL	315	HIS	C-N-CA	5.00	130.42	122.62
24	LN	273	GLN	CA-CB-CG	5.00	124.11	114.10
24	LN	320	PHE	CA-C-N	5.00	127.39	120.29
24	LN	320	PHE	C-N-CA	5.00	127.39	120.29
32	LV	651	HIS	ND1-CG-CD2	-5.00	101.10	106.10
34	LX	136	CYS	N-CA-CB	5.00	117.62	110.06
38	Lb	691	MET	CA-CB-CG	5.00	124.11	114.10
41	Le	532	TYR	N-CA-CB	5.00	117.27	110.01
42	Lf	326	ARG	N-CA-CB	5.00	117.26	110.01
51	Lo	147	ARG	N-CA-CB	5.00	117.27	110.01
53	Lq	124	GLU	CA-C-N	5.00	127.88	120.82
53	Lq	124	GLU	C-N-CA	5.00	127.88	120.82
54	Lr	19	ALA	CA-C-N	5.00	126.95	120.44
54	Lr	19	ALA	C-N-CA	5.00	126.95	120.44
57	Lu	483	PRO	CA-C-N	5.00	127.39	120.29
57	Lu	483	PRO	C-N-CA	5.00	127.39	120.29
59	Lw	156	ARG	CA-CB-CG	5.00	124.11	114.10
68	UF	64	ARG	CG-CD-NE	5.00	123.01	112.00
96	lO	161	A	C2'-C3'-O3'	5.00	117.01	109.50
5	L4	194	HIS	N-CA-CB	5.00	117.26	110.01
5	L4	247	GLY	CA-C-N	5.00	126.94	120.44
5	L4	247	GLY	C-N-CA	5.00	126.94	120.44
6	L5	473	GLN	N-CA-CB	5.00	117.26	110.01
13	LC	246	ARG	CG-CD-NE	5.00	123.00	112.00
22	LL	945	ARG	N-CA-CB	5.00	117.26	110.01
23	LM	134	ARG	CA-CB-CG	5.00	124.11	114.10
24	LN	255	MET	CA-C-N	5.00	126.94	120.44
24	LN	255	MET	C-N-CA	5.00	126.94	120.44
35	LY	278	SER	CA-C-N	5.00	130.10	122.65
35	LY	278	SER	C-N-CA	5.00	130.10	122.65
38	Lb	891	GLU	N-CA-CB	5.00	117.26	110.01
39	Lc	155	ALA	CA-C-N	5.00	126.98	120.28
39	Lc	155	ALA	C-N-CA	5.00	126.98	120.28
39	Lc	216	VAL	CA-C-N	5.00	126.98	120.28
39	Lc	216	VAL	C-N-CA	5.00	126.98	120.28
39	Lc	262	LYS	CA-C-N	5.00	127.91	120.31

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
39	Lc	262	LYS	C-N-CA	5.00	127.91	120.31
53	Lq	556	ARG	CB-CG-CD	5.00	122.80	111.30
53	Lq	642	ALA	CA-C-N	5.00	126.94	120.44
53	Lq	642	ALA	C-N-CA	5.00	126.94	120.44
53	Lq	879	GLN	CA-C-N	5.00	127.68	120.38
53	Lq	879	GLN	C-N-CA	5.00	127.68	120.38

There are no chirality outliers.

All (36) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
2	L1	481	TYR	Sidechain
22	LL	296	HIS	Mainchain
37	La	134	TYR	Sidechain
40	Ld	489	SER	Mainchain
53	Lq	765	ARG	Sidechain
61	Ly	525	ARG	Sidechain
72	l0	23	G	Sidechain
78	l6	33	G	Sidechain
79	l7	36	A	Sidechain
80	l8	8	G	Sidechain
82	lA	40	A	Sidechain
82	lA	58	A	Sidechain
84	lC	16	U	Sidechain
84	lC	17	G	Sidechain
84	lC	20	A	Sidechain
91	lJ	118	A	Sidechain
91	lJ	266	U	Sidechain
91	lJ	36	G	Sidechain
91	lJ	79	G	Sidechain
91	lJ	84	A	Sidechain
92	lK	34	G	Sidechain
92	lK	9	G	Sidechain
94	lM	135	G	Sidechain
94	lM	137	U	Sidechain
94	lM	189	G	Sidechain
95	lN	12	G	Sidechain
96	lO	26	G	Sidechain
97	lP	15	U	Sidechain
101	lW	5	U	Sidechain
104	lX	41	U	Sidechain
103	lY	1	U	Sidechain

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type	Group
103	lY	2	U	Sidechain
103	lY	4	U	Sidechain
103	lY	5	U	Sidechain
103	lY	7	U	Sidechain
103	lY	9	U	Sidechain

5.2 Too-close contacts (i)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry-related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	L0	2984	0	2988	8	0
2	L1	768	0	774	1	0
3	L2	2111	0	2147	7	0
4	L3	2196	0	2156	5	0
5	L4	3430	0	3454	14	0
6	L5	264	0	288	1	0
7	L6	476	0	503	0	0
8	L7	906	0	973	5	0
9	L8	2008	0	1998	3	0
10	L9	3888	0	3896	15	0
11	LA	1708	0	1745	7	0
12	LB	1033	0	1052	5	0
13	LC	2909	0	2949	14	0
14	LD	1847	0	1840	3	0
15	LE	2118	0	2118	12	0
16	LF	731	0	744	3	0
17	LG	1253	0	1225	11	0
18	LH	693	0	729	0	0
19	LI	613	0	652	1	0
20	LJ	3640	0	3677	23	0
21	LK	1905	0	1879	4	0
22	LL	4847	0	4916	15	0
23	LM	1376	0	1435	5	0
24	LN	986	0	1036	3	0
25	LO	2647	0	2725	9	0
26	LP	1636	0	1577	4	0
27	LQ	600	0	618	3	0
28	LR	738	0	728	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
29	LS	1812	0	1884	4	0
30	LT	965	0	1013	5	0
31	LU	623	0	665	1	0
32	LV	5149	0	5211	26	0
33	LW	2433	0	2442	13	0
34	LX	779	0	762	2	0
35	LY	2909	0	2976	5	0
36	LZ	1591	0	1608	6	0
37	La	1769	0	1799	5	0
38	Lb	4929	0	5042	19	0
39	Lc	3797	0	3835	5	0
40	Ld	3507	0	3563	17	0
41	Le	3057	0	3083	7	0
42	Lf	1709	0	1711	5	0
43	Lg	1824	0	1879	4	0
44	Lh	3675	0	3687	12	0
45	Li	3833	0	3922	10	0
46	Lj	977	0	1019	8	0
47	Lk	1502	0	1491	2	0
48	Ll	1573	0	1585	3	0
49	Lm	1501	0	1559	5	0
50	Ln	442	0	417	0	0
51	Lo	2219	0	2223	4	0
52	Lp	3074	0	3164	15	0
53	Lq	5268	0	5324	32	0
54	Lr	2342	0	2310	4	0
55	Ls	2565	0	2644	11	0
56	Lt	1556	0	1518	7	0
57	Lu	1834	0	1841	9	0
58	Lv	928	0	960	4	0
59	Lw	1440	0	1483	7	0
60	Lx	796	0	824	3	0
61	Ly	2821	0	2849	8	0
62	Lz	994	0	944	0	0
63	UA	709	0	752	2	0
64	UB	1451	0	1477	3	0
65	UC	864	0	888	4	0
66	UD	308	0	321	1	0
67	UE	935	0	927	3	0
68	UF	672	0	664	0	0
69	UG	1343	0	1341	3	0
70	UH	401	0	427	1	0

Continued on next page...

Continued from previous page...

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
71	UI	293	0	320	1	0
72	l0	936	0	461	4	0
73	l1	1070	0	494	3	0
74	l2	660	0	300	2	0
75	l3	1254	0	581	5	0
76	l4	1991	0	906	9	0
77	l5	761	0	358	4	0
78	l6	1072	0	503	1	0
79	l7	1481	0	683	3	0
80	l8	707	0	357	0	0
81	l9	1926	0	867	10	0
82	lA	1387	0	666	6	0
83	lB	985	0	433	7	0
84	lC	583	0	283	1	0
85	lD	338	0	152	3	0
86	lE	630	0	285	2	0
87	lF	1880	0	883	9	0
88	lG	561	0	271	0	0
89	lH	572	0	273	1	0
90	lI	1039	0	471	4	0
91	lJ	5929	0	2780	24	0
92	lK	821	0	396	2	0
93	lL	1948	0	890	4	0
94	lM	4121	0	1965	20	0
95	lN	1316	0	619	2	0
96	lO	3841	0	1750	10	0
97	lP	580	0	276	6	0
98	lQ	740	0	355	1	0
99	lR	560	0	262	1	0
100	lS	140	0	71	0	0
101	lT	280	0	135	0	0
101	lW	280	0	136	0	0
102	lU	300	0	144	1	0
103	lV	200	0	95	1	0
103	lY	200	0	101	1	0
104	lX	1160	0	568	4	0
All	All	175729	0	154946	514	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 2.

All (514) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
76:l4:25:U:OP2	76:l4:26:A:O2'	1.88	0.91
94:lM:99:C:O2'	94:lM:100:C:OP1	1.97	0.82
91:lJ:184:C:O2'	91:lJ:185:G:OP1	1.97	0.81
96:lO:161:A:O2'	96:lO:162:A:OP1	2.00	0.80
94:lM:77:A:O2'	94:lM:78:C:OP1	2.00	0.79
96:lO:16:A:O2'	96:lO:17:G:OP1	2.00	0.79
1:L0:470:SER:O	1:L0:473:ASN:ND2	2.20	0.75
83:lB:44:G:O2'	83:lB:45:A:O5'	2.05	0.75
36:LZ:42:LEU:HD23	36:LZ:51:GLN:OE1	1.87	0.74
3:L2:118:LEU:O	3:L2:122:VAL:HG23	1.90	0.72
15:LE:464:ARG:NH2	15:LE:506:GLN:OE1	2.23	0.72
32:LV:407:ARG:O	32:LV:411:VAL:HG22	1.90	0.70
59:Lw:67:GLN:NE2	59:Lw:69:VAL:O	2.24	0.70
10:L9:372:ASN:OD1	11:LA:220:ARG:NH2	2.25	0.69
10:L9:195:GLU:OE1	10:L9:198:ARG:NH1	2.24	0.69
36:LZ:170:TYR:OH	57:Lu:413:ARG:NH1	2.24	0.69
32:LV:1014:PHE:O	32:LV:1018:VAL:HG23	1.92	0.68
75:l3:56:C:O2'	75:l3:57:A:O5'	2.06	0.68
49:Lm:341:VAL:HG22	49:Lm:347:VAL:HG22	1.75	0.68
91:lJ:131:C:O2	91:lJ:154:G:N2	2.27	0.68
52:Lp:650:ARG:NH1	81:l9:47:G:OP1	2.27	0.68
53:Lq:378:ARG:NE	53:Lq:497:GLU:OE2	2.28	0.67
20:LJ:143:ALA:O	20:LJ:147:VAL:HG22	1.94	0.67
61:Ly:551:PRO:O	61:Ly:552:THR:HG23	1.95	0.66
93:lL:45:A:O2'	93:lL:48:A:N6	2.28	0.66
15:LE:461:LEU:O	15:LE:465:VAL:HG23	1.96	0.65
36:LZ:42:LEU:CD2	36:LZ:51:GLN:OE1	2.44	0.65
45:Li:350:ALA:O	45:Li:354:VAL:HG23	1.97	0.64
33:LW:483:GLU:O	33:LW:486:VAL:HG12	1.97	0.64
36:LZ:172:ARG:NH2	81:l9:89:U:O2'	2.32	0.63
44:Lh:510:THR:O	44:Lh:514:VAL:HG23	1.99	0.63
38:Lb:341:ALA:O	38:Lb:371:ARG:NH1	2.32	0.62
38:Lb:814:ALA:O	38:Lb:818:VAL:HG23	1.99	0.62
10:L9:285:TYR:O	10:L9:289:VAL:HG23	1.98	0.62
38:Lb:305:ARG:NH2	46:Lj:32:ASN:OD1	2.33	0.62
46:Lj:102:ARG:O	46:Lj:106:VAL:HG23	1.99	0.62
25:LO:147:ILE:O	25:LO:190:VAL:HG23	2.00	0.61
66:UD:168:ILE:N	96:lO:33:G:OP1	2.33	0.61
17:LG:184:PRO:HG3	52:Lp:703:GLU:OE1	2.00	0.61
38:Lb:650:ALA:O	38:Lb:654:VAL:HG23	2.01	0.61
1:L0:618:ARG:NH2	1:L0:624:LYS:O	2.34	0.60
57:Lu:376:GLU:O	57:Lu:380:VAL:HG23	2.00	0.60

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
22:LL:465:VAL:HG11	22:LL:498:VAL:HG12	1.83	0.60
32:LV:263:LEU:HD13	52:Lp:404:PRO:HG3	1.82	0.60
42:Lf:369:ALA:O	94:lM:107:A:N6	2.34	0.60
13:LC:627:GLN:NE2	49:Lm:424:GLN:OE1	2.34	0.60
36:LZ:20:THR:O	36:LZ:24:VAL:HG23	2.01	0.60
57:Lu:305:ALA:O	57:Lu:309:VAL:HG23	2.01	0.60
95:lN:46:A:O2'	95:lN:47:U:OP1	2.16	0.60
52:Lp:667:TRP:NE1	57:Lu:398:ASP:OD1	2.35	0.60
59:Lw:50:ASP:O	59:Lw:54:VAL:HG23	2.02	0.60
40:Ld:237:ALA:O	40:Ld:241:VAL:HG22	2.02	0.59
5:L4:393:ASP:O	5:L4:397:VAL:HG23	2.01	0.59
32:LV:404:LEU:O	32:LV:408:VAL:HG23	2.03	0.59
57:Lu:476:SER:O	57:Lu:480:VAL:HG23	2.03	0.59
35:LY:454:ILE:HD11	91:lJ:203:G:H4'	1.84	0.59
1:L0:251:ALA:N	93:lL:4:G:HO2'	2.01	0.59
40:Ld:288:ALA:O	40:Ld:291:VAL:HG12	2.03	0.58
1:L0:255:GLY:O	53:Lq:120:ARG:NH1	2.36	0.58
61:Ly:491:GLN:NE2	61:Ly:603:ASP:OD1	2.36	0.58
15:LE:536:ARG:NH1	15:LE:596:SER:OG	2.35	0.58
17:LG:264:VAL:HG21	17:LG:279:TRP:CZ2	2.38	0.58
104:lX:57:U:O2'	104:lX:58:U:OP2	2.15	0.58
82:lA:18:C:O2'	94:lM:77:A:O2'	2.20	0.58
32:LV:746:VAL:HG21	32:LV:793:TYR:CE2	2.39	0.58
20:LJ:270:LEU:O	20:LJ:275:ARG:NH2	2.36	0.58
43:Lg:97:ARG:O	43:Lg:101:VAL:HG23	2.03	0.58
48:Ll:166:SER:O	48:Ll:172:ARG:NH2	2.36	0.58
59:Lw:83:LYS:NZ	90:lI:16:C:O2	2.37	0.58
9:L8:17:ARG:O	33:LW:210:ARG:NH2	2.36	0.57
46:Lj:11:VAL:O	46:Lj:15:VAL:HG23	2.03	0.57
22:LL:209:HIS:O	22:LL:213:VAL:HG23	2.03	0.57
46:Lj:79:ASN:OD1	87:lF:25:A:N6	2.37	0.57
53:Lq:100:TRP:CD1	54:Lr:37:TYR:HH	2.21	0.57
56:Lt:118:TYR:O	56:Lt:122:GLU:OE2	2.22	0.57
5:L4:300:VAL:O	5:L4:304:VAL:HG23	2.04	0.57
38:Lb:734:VAL:O	38:Lb:738:VAL:HG23	2.04	0.57
33:LW:478:PRO:O	33:LW:479:THR:HG23	2.05	0.57
21:LK:215:ARG:O	21:LK:219:VAL:HG23	2.04	0.57
17:LG:236:ARG:NH2	81:l9:43:C:O2	2.38	0.57
46:Lj:103:LEU:O	46:Lj:107:VAL:HG22	2.05	0.57
86:lE:15:G:O2'	86:lE:16:U:OP2	2.19	0.57
20:LJ:4:LEU:O	20:LJ:9:ARG:NH2	2.38	0.56

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
43:Lg:43:ALA:O	43:Lg:46:VAL:HG22	2.05	0.56
52:Lp:644:GLN:NE2	76:l4:49:C:OP2	2.38	0.56
55:Ls:345:ARG:NH2	79:l7:70:A:OP2	2.39	0.56
20:LJ:198:GLU:O	20:LJ:202:VAL:HG23	2.05	0.56
21:LK:138:VAL:HG11	21:LK:166:LEU:HD22	1.87	0.56
40:Ld:282:VAL:O	40:Ld:286:VAL:HG23	2.06	0.56
13:LC:581:VAL:HG21	13:LC:610:PHE:HZ	1.70	0.56
20:LJ:217:ASP:O	20:LJ:221:VAL:HG23	2.06	0.56
30:LT:116:ASP:OD1	30:LT:120:ARG:N	2.39	0.56
44:Lh:308:VAL:HG22	44:Lh:309:PRO:HD2	1.88	0.56
55:Ls:456:ARG:NH2	55:Ls:460:ASP:OD2	2.38	0.56
45:Li:470:LEU:N	45:Li:503:GLU:OE1	2.39	0.56
55:Ls:327:GLU:O	55:Ls:338:ARG:NH2	2.39	0.56
87:lF:86:A:N6	104:lX:35:U:O4’	2.39	0.56
12:LB:7:VAL:O	12:LB:11:VAL:HG23	2.07	0.55
32:LV:1059:GLU:OE2	32:LV:1063:ARG:NE	2.40	0.55
77:l5:29:A:OP1	77:l5:30:U:O2’	2.13	0.55
13:LC:181:THR:O	13:LC:185:VAL:HG23	2.06	0.55
53:Lq:264:LEU:O	53:Lq:268:VAL:HG23	2.07	0.55
37:La:170:ASP:OD2	57:Lu:302:LYS:NZ	2.39	0.55
11:LA:82:ALA:O	11:LA:86:VAL:HG23	2.06	0.55
56:Lt:97:ARG:NH2	60:Lx:331:GLU:O	2.40	0.55
8:L7:13:ARG:NH2	94:lM:130:C:O2’	2.40	0.55
13:LC:309:SER:O	13:LC:313:VAL:HG23	2.07	0.55
40:Ld:284:ASP:OD1	40:Ld:314:ARG:NE	2.40	0.55
38:Lb:343:ASP:O	38:Lb:347:VAL:HG23	2.07	0.55
40:Ld:298:GLU:O	40:Ld:302:VAL:HG23	2.07	0.55
15:LE:422:MET:O	15:LE:426:VAL:HG12	2.05	0.55
29:LS:204:SER:HG	29:LS:205:TRP:CD1	2.25	0.54
61:Ly:512:VAL:HG11	61:Ly:558:VAL:HG11	1.89	0.54
91:lJ:192:U:O4	91:lJ:193:A:N6	2.40	0.54
58:Lv:31:ILE:HG21	58:Lv:80:ILE:HG22	1.89	0.54
93:lL:2:G:N2	93:lL:2:G:OP1	2.40	0.54
56:Lt:274:PRO:O	56:Lt:278:VAL:HG23	2.08	0.54
59:Lw:132:ARG:NH1	94:lM:47:U:O2	2.41	0.54
49:Lm:416:TYR:O	49:Lm:420:VAL:HG23	2.08	0.53
12:LB:20:ARG:NH2	77:l5:33:U:OP1	2.39	0.53
26:LP:115:ARG:NH1	26:LP:123:GLN:OE1	2.42	0.53
10:L9:341:LEU:HD12	10:L9:428:LEU:HD23	1.91	0.53
27:LQ:371:ASN:ND2	81:l9:53:A:OP2	2.42	0.53
35:LY:274:THR:OG1	35:LY:352:PHE:O	2.20	0.53

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
40:Ld:582:TYR:OH	40:Ld:590:ILE:N	2.42	0.53
55:Ls:480:PHE:O	55:Ls:502:VAL:HG21	2.08	0.53
20:LJ:382:MET:O	20:LJ:386:VAL:HG23	2.09	0.53
13:LC:304:ARG:NE	13:LC:539:GLU:OE2	2.36	0.53
57:Lu:338:VAL:O	57:Lu:342:VAL:HG23	2.09	0.52
20:LJ:253:PHE:O	20:LJ:257:VAL:HG23	2.09	0.52
8:L7:53:LYS:NZ	8:L7:59:ALA:O	2.37	0.52
20:LJ:292:ARG:NH1	81:l9:9:C:OP1	2.40	0.52
39:Lc:244:LEU:O	39:Lc:247:ARG:NH2	2.40	0.52
10:L9:270:LEU:O	10:L9:277:GLN:NE2	2.38	0.52
38:Lb:404:ARG:NH2	104:lX:53:U:OP2	2.42	0.52
56:Lt:118:TYR:C	56:Lt:122:GLU:OE2	2.52	0.52
17:LG:215:ASP:OD1	17:LG:216:GLY:N	2.42	0.52
23:LM:127:ARG:NH2	74:l2:25:U:OP1	2.43	0.52
52:Lp:530:MET:SD	52:Lp:589:VAL:HG22	2.50	0.52
55:Ls:542:LEU:HB3	55:Ls:552:VAL:HG21	1.92	0.52
17:LG:264:VAL:HG12	17:LG:281:ARG:HA	1.91	0.52
96:lO:16:A:HO2'	96:lO:17:G:P	2.30	0.52
34:LX:123:ALA:HB3	34:LX:134:VAL:HG21	1.92	0.52
35:LY:366:ARG:HG3	35:LY:462:VAL:HG22	1.92	0.52
6:L5:454:SER:OG	94:lM:128:A:N7	2.40	0.51
27:LQ:399:TRP:O	41:Le:428:THR:OG1	2.22	0.51
53:Lq:845:LEU:HD23	53:Lq:845:LEU:O	2.09	0.51
69:UG:267:ARG:NH2	103:lV:8:U:OP2	2.40	0.51
23:LM:58:VAL:HG22	23:LM:67:PHE:CB	2.40	0.51
25:LO:206:GLY:O	25:LO:240:LYS:NZ	2.34	0.51
25:LO:67:VAL:HG13	25:LO:67:VAL:O	2.11	0.51
33:LW:284:VAL:HG13	33:LW:284:VAL:O	2.10	0.51
59:Lw:54:VAL:O	59:Lw:58:VAL:HG23	2.10	0.51
36:LZ:155:ASN:OD1	36:LZ:157:VAL:HG23	2.09	0.51
38:Lb:378:CYS:SG	38:Lb:379:ASP:N	2.84	0.51
40:Ld:440:GLU:HG3	40:Ld:473:VAL:HG21	1.93	0.51
84:lC:8:G:OP2	84:lC:11:C:N4	2.44	0.51
15:LE:476:VAL:HG23	54:Lr:215:ASN:OD1	2.11	0.50
11:LA:167:ARG:NH2	38:Lb:281:PHE:O	2.45	0.50
20:LJ:7:ARG:NH1	20:LJ:8:GLU:OE2	2.39	0.50
38:Lb:471:ALA:O	38:Lb:475:VAL:HG23	2.11	0.50
41:Le:540:GLY:O	41:Le:544:VAL:HG23	2.12	0.50
23:LM:58:VAL:HG22	23:LM:67:PHE:HB3	1.93	0.50
52:Lp:409:LYS:NZ	52:Lp:480:GLU:OE1	2.40	0.50
45:Li:366:ASP:OD1	45:Li:367:VAL:N	2.45	0.50

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
63:UA:242:VAL:HG23	63:UA:247:LEU:HG	1.93	0.50
97:lP:4:U:C4	97:lP:5:U:C5	2.99	0.50
22:LL:125:THR:OG1	22:LL:128:GLU:OE1	2.20	0.50
52:Lp:565:ARG:NH2	52:Lp:574:GLU:OE1	2.45	0.50
33:LW:379:ARG:NH1	33:LW:417:MET:O	2.44	0.49
40:Ld:338:ASP:O	40:Ld:342:VAL:HG23	2.12	0.49
5:L4:275:GLU:OE1	5:L4:277:ARG:NE	2.45	0.49
33:LW:292:GLN:NE2	33:LW:345:LEU:O	2.44	0.49
45:Li:297:LEU:O	45:Li:301:VAL:HG23	2.12	0.49
53:Lq:582:VAL:HG22	53:Lq:584:GLY:H	1.77	0.49
32:LV:952:THR:O	32:LV:956:VAL:HG23	2.11	0.49
3:L2:208:ASP:O	3:L2:212:VAL:HG23	2.11	0.49
22:LL:446:LEU:O	22:LL:450:VAL:HG13	2.13	0.49
23:LM:80:ARG:O	23:LM:157:GLN:NE2	2.46	0.49
28:LR:65:LEU:O	28:LR:70:GLN:NE2	2.46	0.49
32:LV:776:ASN:O	32:LV:780:VAL:HG23	2.11	0.49
33:LW:217:ARG:O	33:LW:217:ARG:NE	2.45	0.49
94:lM:32:C:N4	94:lM:76:C:OP2	2.46	0.49
97:lP:3:U:C4	97:lP:4:U:C5	3.01	0.49
40:Ld:326:LYS:NZ	40:Ld:330:ASP:OD2	2.36	0.49
22:LL:652:THR:O	22:LL:656:VAL:HG23	2.12	0.49
64:UB:227:PRO:HD2	90:lI:14:G:H22	1.76	0.49
30:LT:18:VAL:HG11	30:LT:34:LYS:HD3	1.95	0.48
40:Ld:364:VAL:HG23	40:Ld:371:PHE:CE1	2.48	0.48
53:Lq:879:GLN:NE2	53:Lq:886:CYS:O	2.46	0.48
40:Ld:468:TYR:OH	40:Ld:505:GLU:OE2	2.30	0.48
51:Lo:259:LEU:HD23	83:lB:32:A:H2'	1.95	0.48
32:LV:785:ARG:NH2	32:LV:789:GLN:OE1	2.47	0.48
91:lJ:108:U:O2'	91:lJ:109:G:O4'	2.30	0.48
13:LC:314:ALA:O	13:LC:318:VAL:HG23	2.13	0.48
17:LG:264:VAL:HG21	17:LG:279:TRP:CE2	2.48	0.48
11:LA:81:LEU:O	11:LA:85:VAL:HG23	2.13	0.48
33:LW:271:ASP:OD1	33:LW:275:GLU:N	2.47	0.48
76:l4:34:U:O2'	81:l9:54:G:O2'	2.25	0.48
40:Ld:310:ARG:NH2	40:Ld:348:ALA:O	2.46	0.48
40:Ld:364:VAL:HG23	40:Ld:371:PHE:CZ	2.49	0.48
53:Lq:316:GLY:O	53:Lq:355:ARG:NH1	2.47	0.48
73:l1:20:A:N6	96:lO:154:U:O2	2.47	0.48
75:l3:26:C:O2'	85:lD:4:A:N3	2.42	0.48
32:LV:620:ILE:HG23	38:Lb:867:VAL:HG21	1.96	0.47
32:LV:681:ARG:NH2	32:LV:685:GLU:OE2	2.47	0.47

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
44:Lh:624:GLU:OE2	44:Lh:627:ARG:NH2	2.45	0.47
55:Ls:395:ARG:NH1	96:lO:19:A:OP2	2.46	0.47
5:L4:332:SER:OG	44:Lh:743:ARG:NH1	2.47	0.47
39:Lc:336:SER:O	39:Lc:340:VAL:HG23	2.14	0.47
53:Lq:174:THR:O	53:Lq:178:VAL:HG23	2.14	0.47
30:LT:122:VAL:N	30:LT:123:PRO:CD	2.77	0.47
60:Lx:308:VAL:HG22	60:Lx:327:VAL:HG12	1.95	0.47
17:LG:307:ASP:OD1	17:LG:307:ASP:N	2.48	0.47
25:LO:313:GLY:HA3	91:lJ:95:G:H5"	1.96	0.47
40:Ld:463:ILE:CD1	40:Ld:498:VAL:HG23	2.44	0.47
45:Li:707:PRO:O	45:Li:711:VAL:HG23	2.15	0.47
1:L0:297:ARG:NE	53:Lq:200:PRO:O	2.47	0.47
15:LE:459:HIS:NE2	15:LE:463:GLU:OE2	2.48	0.47
42:Lf:352:ASP:O	42:Lf:356:VAL:HG23	2.14	0.47
47:Lk:417:ARG:HB2	47:Lk:418:PRO:HD3	1.96	0.47
4:L3:638:MET:HB2	4:L3:698:VAL:HG23	1.96	0.47
22:LL:207:LEU:O	22:LL:211:VAL:HG23	2.15	0.47
53:Lq:484:THR:OG1	53:Lq:518:ARG:NH2	2.47	0.47
39:Lc:305:LEU:O	39:Lc:309:LEU:HD13	2.14	0.47
53:Lq:298:PRO:HA	53:Lq:301:VAL:HG12	1.96	0.47
53:Lq:576:LEU:HD21	53:Lq:596:LEU:HD23	1.96	0.47
53:Lq:664:PHE:O	53:Lq:667:HIS:NE2	2.48	0.47
75:l3:16:U:N3	82:lA:39:A:OP2	2.47	0.47
91:lJ:135:G:C2	91:lJ:136:U:C5	3.02	0.47
14:LD:474:THR:OG1	14:LD:597:GLU:OE1	2.25	0.47
32:LV:913:ALA:O	32:LV:917:VAL:HG23	2.14	0.47
65:UC:198:HIS:ND1	65:UC:200:PHE:O	2.46	0.47
10:L9:38:ASP:OD1	10:L9:68:ARG:NH1	2.48	0.47
15:LE:507:LEU:O	15:LE:511:VAL:HG23	2.15	0.47
38:Lb:726:LEU:O	38:Lb:730:VAL:HG23	2.15	0.46
57:Lu:318:GLU:OE2	57:Lu:471:VAL:HG23	2.14	0.46
91:lJ:278:A:H2'	91:lJ:279:U:C6	2.50	0.46
91:lJ:124:G:N2	91:lJ:163:U:O2'	2.48	0.46
55:Ls:371:ARG:NH1	79:l7:55:G:OP2	2.45	0.46
64:UB:250:VAL:HG12	73:l1:17:A:H4'	1.98	0.46
67:UE:203:MET:HE3	67:UE:208:VAL:HG11	1.97	0.46
83:lB:44:G:O2'	83:lB:45:A:P	2.73	0.46
38:Lb:346:GLN:O	38:Lb:350:VAL:HG23	2.15	0.46
75:l3:56:C:HO2'	75:l3:57:A:P	2.33	0.46
45:Li:317:LEU:O	45:Li:321:ILE:HD12	2.14	0.46
95:lN:55:G:H2'	95:lN:55:G:N3	2.31	0.46

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:LJ:27:ARG:NH1	76:l4:59:G:OP1	2.48	0.46
25:LO:35:ALA:O	25:LO:39:VAL:HG23	2.16	0.46
48:Ll:179:LEU:HD23	48:Ll:182:ILE:HD11	1.97	0.46
17:LG:213:LEU:O	52:Lp:688:ARG:NH2	2.47	0.46
14:LD:382:LEU:HD22	56:Lt:249:VAL:HG21	1.97	0.46
2:L1:430:ASN:ND2	2:L1:436:PRO:O	2.48	0.46
5:L4:470:SER:HG	21:LK:121:ASP:CG	2.23	0.46
10:L9:316:ASP:OD2	67:UE:127:ARG:NH1	2.46	0.46
26:LP:80:ASP:OD1	26:LP:81:THR:N	2.49	0.46
9:L8:112:GLN:OE1	9:L8:114:ARG:NE	2.49	0.45
20:LJ:410:ARG:O	20:LJ:414:VAL:HG23	2.15	0.45
33:LW:402:ILE:HD11	33:LW:417:MET:CE	2.46	0.45
64:UB:247:TRP:O	64:UB:250:VAL:HG22	2.16	0.45
77:l5:40:G:N2	85:lD:4:A:N7	2.64	0.45
5:L4:385:LEU:O	5:L4:418:ARG:NH2	2.49	0.45
13:LC:241:SER:OG	43:Lg:192:LYS:NZ	2.49	0.45
22:LL:460:ASN:O	22:LL:507:SER:OG	2.30	0.45
94:lM:29:U:OP2	94:lM:82:C:N4	2.49	0.45
13:LC:267:ARG:O	13:LC:565:VAL:HG13	2.16	0.45
77:l5:41:U:O2'	85:lD:3:U:O4	2.30	0.45
94:lM:99:C:HO2'	94:lM:100:C:P	2.36	0.45
90:lI:17:G:N2	90:lI:20:A:OP2	2.50	0.45
20:LJ:149:VAL:O	20:LJ:149:VAL:HG13	2.17	0.45
44:Lh:498:THR:OG1	44:Lh:572:VAL:HG22	2.15	0.45
70:UH:277:LYS:NZ	72:l0:46:A:OP1	2.50	0.45
97:lP:6:U:C4	97:lP:7:U:C4	3.04	0.45
30:LT:10:ARG:O	94:lM:5:A:N6	2.50	0.45
58:Lv:69:GLU:OE2	58:Lv:75:ARG:NE	2.46	0.45
5:L4:497:LEU:O	5:L4:501:VAL:HG23	2.17	0.45
83:lB:44:G:HO2'	83:lB:45:A:C5'	2.24	0.45
91:lJ:22:C:N4	91:lJ:173:U:O4'	2.50	0.45
32:LV:234:ASN:OD1	52:Lp:379:ARG:NH2	2.50	0.45
33:LW:402:ILE:HD11	33:LW:417:MET:HE2	1.98	0.45
53:Lq:694:ASP:OD1	53:Lq:697:HIS:ND1	2.49	0.45
15:LE:377:ASN:O	76:l4:62:G:O2'	2.30	0.45
20:LJ:296:LEU:HD23	20:LJ:336:VAL:HG12	1.98	0.45
41:Le:592:ARG:NE	41:Le:594:SER:O	2.49	0.45
81:l9:31:U:H2'	96:lO:80:A:OP1	2.17	0.45
93:lL:46:A:O2'	93:lL:47:A:N7	2.50	0.45
15:LE:440:THR:OG1	15:LE:518:GLY:O	2.25	0.44
20:LJ:136:ALA:O	20:LJ:140:VAL:HG23	2.17	0.44

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:LJ:174:PHE:O	20:LJ:178:VAL:HG23	2.17	0.44
53:Lq:777:THR:HG23	53:Lq:859:LEU:HD12	1.99	0.44
10:L9:334:VAL:HG21	10:L9:377:TYR:CE1	2.52	0.44
51:Lo:235:PHE:O	51:Lo:239:VAL:HG23	2.17	0.44
61:Ly:669:ARG:NH2	61:Ly:673:ASP:OD2	2.49	0.44
10:L9:350:CYS:O	10:L9:364:ALA:N	2.50	0.44
21:LK:245:TRP:O	21:LK:249:VAL:HG23	2.17	0.44
24:LN:247:VAL:HG13	29:LS:40:VAL:HG11	1.99	0.44
37:La:198:ASN:OD1	81:l9:49:A:N6	2.50	0.44
45:Li:603:ARG:NH1	45:Li:712:GLU:OE2	2.49	0.44
53:Lq:717:LEU:O	53:Lq:721:VAL:HG23	2.17	0.44
3:L2:126:ASP:OD1	3:L2:129:SER:OG	2.25	0.44
30:LT:47:LYS:NZ	73:l1:9:C:OP1	2.46	0.44
49:Lm:410:VAL:HG12	49:Lm:410:VAL:O	2.17	0.44
65:UC:241:PHE:HB2	65:UC:275:VAL:HG22	1.99	0.44
12:LB:8:ILE:O	12:LB:12:VAL:HG22	2.17	0.44
45:Li:296:ASP:OD1	45:Li:296:ASP:N	2.43	0.44
56:Lt:252:ASN:O	56:Lt:256:VAL:HG23	2.17	0.44
72:l0:44:G:C2	72:l0:45:U:C5	3.05	0.44
1:L0:265:LYS:NZ	29:LS:90:ASP:OD1	2.44	0.44
53:Lq:359:LEU:O	53:Lq:362:THR:HG22	2.18	0.44
53:Lq:842:TYR:C	53:Lq:843:ILE:HD12	2.43	0.44
61:Ly:300:ARG:NH2	79:l7:14:A:O2'	2.50	0.44
15:LE:610:LEU:HD21	15:LE:672:VAL:HG12	2.00	0.44
53:Lq:257:GLU:O	53:Lq:261:VAL:HG23	2.17	0.44
53:Lq:718:LEU:CD2	53:Lq:757:VAL:HG11	2.48	0.44
76:l4:9:U:O2'	76:l4:10:U:OP2	2.34	0.44
39:Lc:540:GLU:O	39:Lc:544:VAL:HG23	2.17	0.44
52:Lp:415:ARG:O	52:Lp:419:VAL:HG22	2.18	0.44
94:lM:135:G:H2'	94:lM:135:G:N3	2.33	0.44
13:LC:298:LEU:O	13:LC:437:SER:OG	2.31	0.43
13:LC:581:VAL:HG21	13:LC:610:PHE:CZ	2.52	0.43
49:Lm:370:ASP:OD1	49:Lm:371:ASN:N	2.49	0.43
51:Lo:205:GLN:OE1	83:lB:41:C:N4	2.51	0.43
53:Lq:549:PHE:O	53:Lq:553:VAL:HG23	2.17	0.43
71:UI:381:VAL:HG12	82:lA:40:A:H2'	2.00	0.43
4:L3:658:VAL:HG22	4:L3:658:VAL:O	2.17	0.43
10:L9:422:GLU:O	10:L9:426:VAL:HG23	2.17	0.43
12:LB:55:ARG:NH2	12:LB:91:GLU:OE1	2.51	0.43
55:Ls:355:PRO:O	55:Ls:360:ASN:ND2	2.49	0.43
91:lJ:258:A:N1	96:lO:159:G:N2	2.67	0.43

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
5:L4:463:VAL:O	5:L4:473:ARG:NH2	2.51	0.43
52:Lp:744:LYS:O	52:Lp:745:ARG:C	2.62	0.43
81:l9:74:G:O2'	91:lJ:181:U:O4	2.21	0.43
91:lJ:98:G:OP1	91:lJ:121:G:N2	2.51	0.43
1:L0:410:ILE:O	1:L0:414:VAL:HG23	2.18	0.43
11:LA:78:VAL:HG22	11:LA:115:LEU:HD13	1.99	0.43
24:LN:331:ASP:OD2	31:LU:254:HIS:ND1	2.51	0.43
33:LW:256:ARG:NH1	33:LW:476:HIS:O	2.52	0.43
44:Lh:448:ARG:NH1	94:lM:24:G:OP1	2.52	0.43
53:Lq:168:HIS:NE2	97:lP:23:U:O2'	2.45	0.43
53:Lq:232:ALA:HB2	53:Lq:260:VAL:HG13	2.00	0.43
87:lF:62:A:C2	87:lF:63:A:C8	3.06	0.43
3:L2:186:ALA:O	3:L2:190:VAL:HG23	2.18	0.43
5:L4:318:ASP:OD1	22:LL:387:SER:OG	2.34	0.43
23:LM:62:ASP:OD1	23:LM:63:ARG:N	2.51	0.43
38:Lb:699:VAL:N	38:Lb:700:PRO:CD	2.82	0.43
67:UE:109:ASP:OD1	67:UE:110:PHE:N	2.50	0.43
94:lM:135:G:H3'	94:lM:136:U:H5'	1.99	0.43
97:lP:4:U:C2	97:lP:5:U:C6	3.06	0.43
8:L7:71:ARG:N	8:L7:87:ASN:OD1	2.48	0.43
10:L9:137:LEU:O	10:L9:141:VAL:HG23	2.18	0.43
26:LP:108:TYR:O	26:LP:111:THR:HG22	2.19	0.43
53:Lq:154:ASP:OD2	53:Lq:191:VAL:HG12	2.19	0.43
87:lF:41:C:H2'	87:lF:42:U:C6	2.54	0.43
3:L2:71:ARG:NH2	92:lK:20:G:OP2	2.50	0.43
4:L3:424:ARG:O	4:L3:428:VAL:HG23	2.19	0.43
5:L4:296:LEU:O	5:L4:300:VAL:HG23	2.18	0.43
8:L7:48:VAL:HG21	8:L7:89:PHE:CZ	2.53	0.43
38:Lb:629:VAL:O	38:Lb:633:VAL:HG23	2.18	0.43
38:Lb:644:VAL:HG22	38:Lb:648:LEU:HD12	2.00	0.43
42:Lf:171:ASP:O	42:Lf:176:GLY:N	2.51	0.43
15:LE:384:ASP:HB3	15:LE:387:VAL:HG12	2.01	0.43
17:LG:235:ARG:O	37:La:198:ASN:ND2	2.49	0.43
24:LN:324:SER:O	69:UG:255:THR:OG1	2.32	0.43
32:LV:753:ILE:O	32:LV:757:VAL:HG23	2.18	0.43
96:lO:61:C:C2	96:lO:62:C:C5	3.07	0.43
5:L4:488:GLU:OE2	22:LL:846:ARG:HA	2.19	0.43
20:LJ:177:ILE:O	20:LJ:181:VAL:HG23	2.19	0.43
82:lA:30:G:N2	82:lA:47:A:N7	2.67	0.43
104:lX:16:U:O2'	104:lX:17:U:O5'	2.33	0.43
11:LA:54:LEU:O	11:LA:56:ALA:N	2.52	0.42

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
41:Le:345:VAL:HG23	41:Le:351:LYS:HD3	2.00	0.42
41:Le:365:SER:OG	41:Le:367:GLU:OE1	2.34	0.42
45:Li:506:ASP:OD1	45:Li:507:HIS:N	2.52	0.42
65:UC:219:LEU:HD13	65:UC:245:LEU:HD21	2.01	0.42
86:lE:18:U:H2'	86:lE:20:U:C5	2.54	0.42
13:LC:182:VAL:HG23	13:LC:237:VAL:O	2.20	0.42
16:LF:113:HIS:ND1	94:lM:119:U:O2'	2.52	0.42
22:LL:465:VAL:HG13	22:LL:642:VAL:HG13	2.01	0.42
40:Ld:463:ILE:HD13	40:Ld:498:VAL:HG23	2.01	0.42
46:Lj:57:THR:O	46:Lj:61:VAL:HG23	2.19	0.42
16:LF:156:ARG:NH1	63:UA:308:GLN:O	2.51	0.42
42:Lf:332:ALA:C	42:Lf:333:THR:HG1	2.22	0.42
44:Lh:336:VAL:HG12	55:Ls:354:PHE:HZ	1.84	0.42
54:Lr:13:ARG:O	54:Lr:20:ARG:NH1	2.52	0.42
25:LO:292:ARG:NH1	91:lJ:62:U:OP2	2.51	0.42
60:Lx:361:ARG:NH2	60:Lx:364:GLU:OE2	2.49	0.42
35:LY:537:LEU:O	35:LY:541:VAL:HG23	2.18	0.42
89:lH:6:G:O2'	89:lH:7:G:OP2	2.30	0.42
15:LE:612:VAL:HG22	15:LE:672:VAL:HG13	2.00	0.42
20:LJ:147:VAL:HG23	20:LJ:149:VAL:HG12	2.02	0.42
32:LV:986:LEU:O	32:LV:990:ILE:HD12	2.20	0.42
37:La:46:VAL:HG22	37:La:46:VAL:O	2.19	0.42
52:Lp:521:VAL:O	52:Lp:521:VAL:HG13	2.19	0.42
55:Ls:535:ASN:O	55:Ls:539:VAL:HG23	2.20	0.42
17:LG:262:LEU:HD13	17:LG:279:TRP:HH2	1.84	0.42
25:LO:134:ARG:NH1	98:lQ:6:U:OP2	2.53	0.42
32:LV:599:GLU:O	32:LV:603:VAL:HG23	2.19	0.42
32:LV:684:VAL:HG21	32:LV:786:ALA:HB1	2.00	0.42
87:lF:13:A:O2'	94:lM:124:U:OP1	2.33	0.42
5:L4:408:GLU:O	5:L4:411:ILE:HG22	2.19	0.42
32:LV:746:VAL:HG21	32:LV:793:TYR:CD2	2.53	0.42
41:Le:345:VAL:HG13	41:Le:346:GLY:N	2.35	0.42
1:L0:571:ARG:NH2	22:LL:271:ASN:O	2.53	0.42
8:L7:34:ARG:NH1	94:lM:146:G:OP1	2.53	0.42
25:LO:86:PHE:CD1	25:LO:86:PHE:C	2.97	0.42
82:lA:25:G:C6	82:lA:26:U:C4	3.08	0.42
33:LW:269:LEU:HD12	33:LW:279:VAL:HG21	2.02	0.42
58:Lv:35:LEU:O	58:Lv:39:VAL:HG23	2.19	0.42
9:L8:89:ARG:NE	76:l4:43:G:O6	2.46	0.41
22:LL:751:LEU:HD12	22:LL:762:VAL:HG23	2.01	0.41
45:Li:295:ALA:O	45:Li:324:ARG:NH1	2.53	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
53:Lq:436:LEU:O	53:Lq:439:VAL:HG12	2.20	0.41
53:Lq:593:LEU:N	53:Lq:594:PRO:CD	2.83	0.41
53:Lq:600:VAL:O	53:Lq:604:VAL:HG13	2.20	0.41
54:Lr:217:TRP:CE3	54:Lr:217:TRP:C	2.98	0.41
4:L3:562:HIS:O	4:L3:563:LEU:C	2.63	0.41
32:LV:665:ALA:HA	32:LV:752:ALA:HB2	2.01	0.41
46:Lj:61:VAL:O	46:Lj:65:VAL:HG22	2.20	0.41
51:Lo:259:LEU:HD21	83:lB:33:A:O4'	2.20	0.41
58:Lv:72:ASP:OD1	58:Lv:73:GLY:N	2.52	0.41
87:lF:59:G:H2'	87:lF:60:G:O4'	2.19	0.41
90:lI:14:G:C5	90:lI:15:C:C6	3.08	0.41
4:L3:617:THR:O	59:Lw:144:ASN:ND2	2.52	0.41
32:LV:459:ASN:ND2	32:LV:461:THR:OG1	2.52	0.41
46:Lj:62:GLU:OE1	87:lF:29:G:N2	2.53	0.41
102:lU:13:U:O2'	102:lU:14:U:OP2	2.29	0.41
32:LV:894:ILE:O	38:Lb:504:SER:OG	2.30	0.41
48:Ll:77:LEU:HA	48:Ll:80:LEU:HD12	2.02	0.41
53:Lq:301:VAL:O	53:Lq:305:VAL:HG22	2.20	0.41
74:l2:1:A:HO2'	74:l2:2:U:H6	1.65	0.41
91:lJ:6:A:O2'	91:lJ:148:C:O3'	2.33	0.41
91:lJ:8:C:C2	91:lJ:9:G:C8	3.09	0.41
11:LA:174:ARG:NH1	38:Lb:311:LEU:O	2.51	0.41
22:LL:646:ASP:OD1	22:LL:649:THR:N	2.51	0.41
27:LQ:371:ASN:O	27:LQ:375:VAL:HG23	2.20	0.41
40:Ld:239:ASP:OD1	40:Ld:240:VAL:N	2.54	0.41
47:Lk:452:VAL:HG11	47:Lk:482:PHE:HD2	1.84	0.41
75:l3:56:C:HO2'	75:l3:57:A:C5'	2.23	0.41
20:LJ:63:ILE:O	20:LJ:67:VAL:HG23	2.20	0.41
22:LL:464:HIS:H	22:LL:641:THR:HG1	1.64	0.41
57:Lu:261:ARG:O	57:Lu:265:VAL:HG23	2.21	0.41
91:lJ:118:A:N7	91:lJ:119:A:C6	2.89	0.41
14:LD:552:HIS:NE2	14:LD:556:SER:OG	2.54	0.41
20:LJ:125:VAL:HG13	20:LJ:132:PHE:CZ	2.55	0.41
52:Lp:517:ARG:NH1	52:Lp:579:LEU:O	2.49	0.41
53:Lq:256:VAL:HG12	53:Lq:256:VAL:O	2.20	0.41
82:lA:25:G:H2'	82:lA:26:U:C6	2.56	0.41
97:lP:3:U:N3	97:lP:4:U:C6	2.89	0.41
3:L2:32:ARG:NH2	92:lK:11:U:OP2	2.54	0.41
3:L2:99:LYS:O	3:L2:103:VAL:HG23	2.21	0.41
10:L9:283:THR:O	10:L9:287:VAL:HG23	2.21	0.41
13:LC:570:VAL:HG23	13:LC:617:GLU:CD	2.46	0.41

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
20:LJ:204:ASP:OD1	20:LJ:232:TYR:OH	2.32	0.41
22:LL:487:ARG:O	22:LL:491:THR:OG1	2.24	0.41
32:LV:461:THR:OG1	32:LV:897:ASP:OD2	2.29	0.41
32:LV:765:LYS:O	32:LV:766:THR:OG1	2.22	0.41
32:LV:1026:THR:HB	32:LV:1027:PRO:HD3	2.02	0.41
34:LX:126:ASP:OD2	76:l4:43:G:N1	2.54	0.41
35:LY:293:ILE:O	35:LY:297:THR:OG1	2.31	0.41
38:Lb:482:ALA:HB2	38:Lb:585:VAL:HG13	2.03	0.41
41:Le:345:VAL:O	41:Le:347:LYS:N	2.51	0.41
44:Lh:298:PRO:HG2	55:Ls:324:VAL:HG12	2.01	0.41
53:Lq:643:GLU:OE2	53:Lq:647:ARG:NH1	2.50	0.41
61:Ly:617:ARG:NH1	69:UG:382:GLU:OE1	2.54	0.41
61:Ly:630:ASP:OD1	61:Ly:631:GLU:N	2.53	0.41
78:l6:10:A:C4	78:l6:15:U:C5	3.09	0.41
91:lJ:184:C:HO2'	91:lJ:185:G:P	2.31	0.41
94:lM:146:G:OP1	94:lM:146:G:N2	2.54	0.41
5:L4:345:LEU:N	5:L4:346:PRO:CD	2.85	0.41
17:LG:251:SER:OG	17:LG:294:GLU:OE2	2.28	0.41
37:La:125:PRO:HA	37:La:128:THR:HG22	2.03	0.41
43:Lg:141:ARG:NH2	43:Lg:145:GLU:OE2	2.52	0.41
59:Lw:69:VAL:HG21	59:Lw:104:LEU:HD23	2.03	0.41
72:l0:29:A:N3	72:l0:51:G:O2'	2.49	0.41
87:lF:40:C:C2	87:lF:41:C:C5	3.09	0.41
91:lJ:153:U:C4'	91:lJ:154:G:OP1	2.69	0.41
94:lM:184:A:C2	94:lM:185:G:C8	3.08	0.41
10:L9:150:THR:N	10:L9:151:PRO:CD	2.84	0.40
13:LC:238:VAL:HB	13:LC:609:VAL:HG22	2.03	0.40
25:LO:314:LEU:O	91:lJ:77:G:N2	2.54	0.40
40:Ld:328:THR:O	40:Ld:331:ILE:HG22	2.20	0.40
44:Lh:335:GLU:N	44:Lh:335:GLU:OE1	2.54	0.40
44:Lh:723:ASP:OD1	44:Lh:725:ALA:N	2.54	0.40
56:Lt:149:THR:O	83:lB:35:G:N2	2.55	0.40
91:lJ:196:A:C2	91:lJ:197:C:C5	3.10	0.40
5:L4:338:SER:O	5:L4:342:VAL:HG23	2.22	0.40
10:L9:316:ASP:OD1	10:L9:317:LYS:N	2.48	0.40
16:LF:183:PHE:O	16:LF:188:ARG:NH2	2.51	0.40
26:LP:132:GLY:O	26:LP:172:GLN:NE2	2.48	0.40
29:LS:57:MET:CE	29:LS:87:VAL:HG11	2.51	0.40
33:LW:371:LYS:NZ	99:lR:4:U:OP1	2.49	0.40
72:l0:36:C:N4	72:l0:37:G:O6	2.55	0.40
81:l9:27:C:O2	81:l9:27:C:H2'	2.19	0.40

Continued on next page...

Continued from previous page...

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
87:lF:60:G:H2'	87:lF:61:A:C5'	2.51	0.40
96:lO:41:U:N3	96:lO:100:U:O4	2.55	0.40
10:L9:150:THR:OG1	10:L9:151:PRO:HD3	2.22	0.40
20:LJ:52:THR:OG1	53:Lq:270:GLN:OE1	2.23	0.40
20:LJ:257:VAL:O	20:LJ:261:VAL:HG23	2.22	0.40
20:LJ:304:LEU:HD23	20:LJ:311:HIS:CD2	2.57	0.40
32:LV:263:LEU:HD11	32:LV:267:HIS:NE2	2.36	0.40
32:LV:523:GLU:OE2	52:Lp:444:HIS:ND1	2.49	0.40
39:Lc:585:CYS:SG	39:Lc:586:ARG:N	2.94	0.40
42:Lf:186:ILE:HG22	42:Lf:187:GLN:H	1.86	0.40
44:Lh:350:SER:O	44:Lh:394:ASN:ND2	2.46	0.40
44:Lh:583:TYR:CE2	103:lY:3:U:H1'	2.57	0.40
76:l4:1:C:C4	76:l4:2:C:C5	3.08	0.40
91:lJ:2:G:C2	91:lJ:3:G:N7	2.89	0.40
12:LB:97:PHE:O	12:LB:101:VAL:HG23	2.21	0.40
61:Ly:550:LYS:HB2	61:Ly:551:PRO:HD3	2.02	0.40
91:lJ:6:A:H2'	91:lJ:7:G:H8	1.87	0.40
13:LC:570:VAL:HG13	13:LC:571:TYR:N	2.36	0.40
19:LI:54:THR:O	19:LI:57:VAL:HG12	2.22	0.40
65:UC:261:MET:O	65:UC:265:VAL:HG23	2.21	0.40
91:lJ:261:A:C2	94:lM:21:G:N1	2.88	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	L0	349/405 (86%)	335 (96%)	14 (4%)	0	100	100
2	L1	90/92 (98%)	89 (99%)	1 (1%)	0	100	100
3	L2	268/270 (99%)	263 (98%)	5 (2%)	0	100	100
4	L3	268/331 (81%)	258 (96%)	10 (4%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
5	L4	420/430 (98%)	413 (98%)	7 (2%)	0	100	100
6	L5	28/30 (93%)	26 (93%)	2 (7%)	0	100	100
7	L6	53/57 (93%)	53 (100%)	0	0	100	100
8	L7	112/114 (98%)	110 (98%)	2 (2%)	0	100	100
9	L8	235/246 (96%)	226 (96%)	9 (4%)	0	100	100
10	L9	473/475 (100%)	461 (98%)	12 (2%)	0	100	100
11	LA	215/217 (99%)	206 (96%)	9 (4%)	0	100	100
12	LB	119/121 (98%)	115 (97%)	4 (3%)	0	100	100
13	LC	370/527 (70%)	359 (97%)	11 (3%)	0	100	100
14	LD	221/282 (78%)	213 (96%)	8 (4%)	0	100	100
15	LE	259/338 (77%)	255 (98%)	4 (2%)	0	100	100
16	LF	86/88 (98%)	84 (98%)	2 (2%)	0	100	100
17	LG	146/148 (99%)	139 (95%)	7 (5%)	0	100	100
18	LH	85/87 (98%)	83 (98%)	2 (2%)	0	100	100
19	LI	77/79 (98%)	75 (97%)	2 (3%)	0	100	100
20	LJ	441/443 (100%)	423 (96%)	18 (4%)	0	100	100
21	LK	217/219 (99%)	210 (97%)	6 (3%)	1 (0%)	24	54
22	LL	615/855 (72%)	598 (97%)	17 (3%)	0	100	100
23	LM	175/177 (99%)	167 (95%)	8 (5%)	0	100	100
24	LN	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
25	LO	342/344 (99%)	318 (93%)	24 (7%)	0	100	100
26	LP	198/230 (86%)	191 (96%)	7 (4%)	0	100	100
27	LQ	68/70 (97%)	63 (93%)	5 (7%)	0	100	100
28	LR	82/132 (62%)	81 (99%)	1 (1%)	0	100	100
29	LS	226/228 (99%)	219 (97%)	7 (3%)	0	100	100
30	LT	109/117 (93%)	108 (99%)	1 (1%)	0	100	100
31	LU	77/79 (98%)	73 (95%)	4 (5%)	0	100	100
32	LV	642/880 (73%)	629 (98%)	13 (2%)	0	100	100
33	LW	304/306 (99%)	287 (94%)	17 (6%)	0	100	100
34	LX	90/92 (98%)	87 (97%)	3 (3%)	0	100	100
35	LY	344/346 (99%)	337 (98%)	7 (2%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
36	LZ	195/197 (99%)	189 (97%)	6 (3%)	0	100	100
37	La	212/214 (99%)	203 (96%)	9 (4%)	0	100	100
38	Lb	601/733 (82%)	584 (97%)	17 (3%)	0	100	100
39	Lc	469/512 (92%)	442 (94%)	27 (6%)	0	100	100
40	Ld	435/437 (100%)	419 (96%)	16 (4%)	0	100	100
41	Le	374/376 (100%)	366 (98%)	8 (2%)	0	100	100
42	Lf	212/226 (94%)	204 (96%)	8 (4%)	0	100	100
43	Lg	212/214 (99%)	209 (99%)	3 (1%)	0	100	100
44	Lh	437/464 (94%)	428 (98%)	9 (2%)	0	100	100
45	Li	463/602 (77%)	450 (97%)	13 (3%)	0	100	100
46	Lj	120/122 (98%)	118 (98%)	2 (2%)	0	100	100
47	Lk	182/184 (99%)	172 (94%)	10 (6%)	0	100	100
48	Ll	188/190 (99%)	179 (95%)	9 (5%)	0	100	100
49	Lm	180/189 (95%)	176 (98%)	4 (2%)	0	100	100
50	Ln	58/60 (97%)	51 (88%)	7 (12%)	0	100	100
51	Lo	281/283 (99%)	268 (95%)	13 (5%)	0	100	100
52	Lp	366/368 (100%)	353 (96%)	13 (4%)	0	100	100
53	Lq	677/787 (86%)	649 (96%)	28 (4%)	0	100	100
54	Lr	279/281 (99%)	272 (98%)	7 (2%)	0	100	100
55	Ls	309/311 (99%)	294 (95%)	15 (5%)	0	100	100
56	Lt	184/240 (77%)	180 (98%)	4 (2%)	0	100	100
57	Lu	228/232 (98%)	218 (96%)	10 (4%)	0	100	100
58	Lv	110/112 (98%)	108 (98%)	2 (2%)	0	100	100
59	Lw	177/179 (99%)	168 (95%)	9 (5%)	0	100	100
60	Lx	96/98 (98%)	92 (96%)	4 (4%)	0	100	100
61	Ly	336/404 (83%)	325 (97%)	11 (3%)	0	100	100
62	Lz	118/120 (98%)	118 (100%)	0	0	100	100
63	UA	83/85 (98%)	83 (100%)	0	0	100	100
64	UB	172/174 (99%)	169 (98%)	3 (2%)	0	100	100
65	UC	103/105 (98%)	100 (97%)	3 (3%)	0	100	100
66	UD	33/35 (94%)	32 (97%)	1 (3%)	0	100	100

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
67	UE	111/113 (98%)	109 (98%)	2 (2%)	0	100	100
68	UF	76/78 (97%)	74 (97%)	2 (3%)	0	100	100
69	UG	156/158 (99%)	156 (100%)	0	0	100	100
70	UH	45/47 (96%)	44 (98%)	1 (2%)	0	100	100
71	UI	33/35 (94%)	29 (88%)	4 (12%)	0	100	100
All	All	16226/17933 (90%)	15694 (97%)	531 (3%)	1 (0%)	100	100

All (1) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
21	LK	184	PRO

5.3.2 Protein sidechains (i)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all PDB entries followed by that with respect to all EM entries.

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

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	L0	317/359 (88%)	316 (100%)	1 (0%)	86	96
2	L1	83/83 (100%)	82 (99%)	1 (1%)	63	86
3	L2	227/227 (100%)	227 (100%)	0	100	100
4	L3	232/281 (83%)	231 (100%)	1 (0%)	84	94
5	L4	371/375 (99%)	371 (100%)	0	100	100
6	L5	26/26 (100%)	26 (100%)	0	100	100
7	L6	51/51 (100%)	51 (100%)	0	100	100
8	L7	95/96 (99%)	95 (100%)	0	100	100
9	L8	212/218 (97%)	212 (100%)	0	100	100
10	L9	418/418 (100%)	417 (100%)	1 (0%)	87	96
11	LA	180/180 (100%)	179 (99%)	1 (1%)	78	93
12	LB	105/105 (100%)	104 (99%)	1 (1%)	68	89
13	LC	309/423 (73%)	308 (100%)	1 (0%)	86	96

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles
14	LD	194/241 (80%)	192 (99%)	2 (1%)	68 89
15	LE	222/281 (79%)	222 (100%)	0	100 100
16	LF	78/78 (100%)	78 (100%)	0	100 100
17	LG	131/131 (100%)	130 (99%)	1 (1%)	73 90
18	LH	71/71 (100%)	71 (100%)	0	100 100
19	LI	65/65 (100%)	65 (100%)	0	100 100
20	LJ	381/382 (100%)	381 (100%)	0	100 100
21	LK	199/199 (100%)	199 (100%)	0	100 100
22	LL	523/701 (75%)	520 (99%)	3 (1%)	78 93
23	LM	149/149 (100%)	149 (100%)	0	100 100
24	LN	106/106 (100%)	105 (99%)	1 (1%)	70 90
25	LO	271/272 (100%)	271 (100%)	0	100 100
26	LP	171/195 (88%)	169 (99%)	2 (1%)	63 86
27	LQ	62/62 (100%)	62 (100%)	0	100 100
28	LR	82/114 (72%)	81 (99%)	1 (1%)	63 86
29	LS	205/205 (100%)	205 (100%)	0	100 100
30	LT	102/106 (96%)	102 (100%)	0	100 100
31	LU	69/69 (100%)	69 (100%)	0	100 100
32	LV	538/705 (76%)	535 (99%)	3 (1%)	78 93
33	LW	262/263 (100%)	261 (100%)	1 (0%)	84 94
34	LX	85/85 (100%)	83 (98%)	2 (2%)	43 75
35	LY	300/302 (99%)	298 (99%)	2 (1%)	76 92
36	LZ	166/166 (100%)	166 (100%)	0	100 100
37	La	193/193 (100%)	193 (100%)	0	100 100
38	Lb	520/626 (83%)	517 (99%)	3 (1%)	78 93
39	Lc	412/450 (92%)	411 (100%)	1 (0%)	87 96
40	Ld	387/388 (100%)	381 (98%)	6 (2%)	55 83
41	Le	311/311 (100%)	310 (100%)	1 (0%)	86 96
42	Lf	174/181 (96%)	174 (100%)	0	100 100
43	Lg	192/192 (100%)	191 (100%)	1 (0%)	81 93
44	Lh	391/406 (96%)	390 (100%)	1 (0%)	86 96

Continued on next page...

Continued from previous page...

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
45	Li	421/526 (80%)	421 (100%)	0	100	100
46	Lj	105/105 (100%)	103 (98%)	2 (2%)	50	79
47	Lk	156/156 (100%)	156 (100%)	0	100	100
48	Ll	169/169 (100%)	168 (99%)	1 (1%)	78	93
49	Lm	165/170 (97%)	165 (100%)	0	100	100
50	Ln	44/44 (100%)	44 (100%)	0	100	100
51	Lo	235/236 (100%)	233 (99%)	2 (1%)	70	90
52	Lp	329/330 (100%)	328 (100%)	1 (0%)	86	96
53	Lq	557/637 (87%)	557 (100%)	0	100	100
54	Lr	241/242 (100%)	240 (100%)	1 (0%)	84	94
55	Ls	268/268 (100%)	266 (99%)	2 (1%)	76	92
56	Lt	165/201 (82%)	163 (99%)	2 (1%)	63	86
57	Lu	196/197 (100%)	196 (100%)	0	100	100
58	Lv	101/101 (100%)	100 (99%)	1 (1%)	68	89
59	Lw	152/152 (100%)	150 (99%)	2 (1%)	61	86
60	Lx	86/86 (100%)	86 (100%)	0	100	100
61	Ly	303/351 (86%)	303 (100%)	0	100	100
62	Lz	103/103 (100%)	103 (100%)	0	100	100
63	UA	76/76 (100%)	76 (100%)	0	100	100
64	UB	159/159 (100%)	159 (100%)	0	100	100
65	UC	95/95 (100%)	95 (100%)	0	100	100
66	UD	30/30 (100%)	30 (100%)	0	100	100
67	UE	103/103 (100%)	102 (99%)	1 (1%)	68	89
68	UF	71/71 (100%)	71 (100%)	0	100	100
69	UG	139/139 (100%)	139 (100%)	0	100	100
70	UH	43/43 (100%)	42 (98%)	1 (2%)	44	76
71	UI	30/30 (100%)	30 (100%)	0	100	100
All	All	14180/15357 (92%)	14126 (100%)	54 (0%)	81	94

All (54) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	L0	619	THR

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
2	L1	498	MET
4	L3	668	THR
10	L9	473	LEU
11	LA	124	THR
12	LB	49	ARG
13	LC	125	VAL
14	LD	350	ASP
14	LD	574	THR
17	LG	307	ASP
22	LL	343	THR
22	LL	395	THR
22	LL	686	THR
24	LN	267	ASN
26	LP	85	THR
26	LP	145	ASP
28	LR	65	LEU
32	LV	952	THR
32	LV	1009	ASP
32	LV	1097	THR
33	LW	389	HIS
34	LX	121	PHE
34	LX	162	ARG
35	LY	466	ARG
35	LY	511	PHE
38	Lb	308	GLU
38	Lb	892	SER
38	Lb	901	THR
39	Lc	231	VAL
40	Ld	432	ARG
40	Ld	446	SER
40	Ld	490	ARG
40	Ld	537	LEU
40	Ld	582	TYR
40	Ld	589	HIS
41	Le	440	ILE
43	Lg	233	ILE
44	Lh	569	ARG
46	Lj	3	VAL
46	Lj	59	ASP
48	Ll	95	SER
51	Lo	245	MET
51	Lo	294	HIS

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
52	Lp	470	THR
54	Lr	39	ARG
55	Ls	395	ARG
55	Ls	580	ILE
56	Lt	91	LEU
56	Lt	122	GLU
58	Lv	80	ILE
59	Lw	18	ILE
59	Lw	86	GLN
67	UE	163	SER
70	UH	234	CYS

Sometimes sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (110) such sidechains are listed below:

Mol	Chain	Res	Type
1	L0	292	GLN
1	L0	384	ASN
1	L0	473	ASN
3	L2	163	GLN
3	L2	253	ASN
4	L3	605	HIS
5	L4	184	HIS
5	L4	192	GLN
5	L4	367	GLN
5	L4	378	GLN
5	L4	464	ASN
9	L8	70	ASN
10	L9	89	GLN
10	L9	109	HIS
10	L9	269	GLN
10	L9	272	ASN
10	L9	460	HIS
11	LA	51	HIS
11	LA	216	GLN
13	LC	300	HIS
13	LC	327	HIS
13	LC	627	GLN
14	LD	378	ASN
15	LE	439	HIS
15	LE	686	ASN
16	LF	181	GLN
16	LF	199	ASN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
17	LG	174	HIS
17	LG	197	GLN
17	LG	229	HIS
17	LG	275	HIS
20	LJ	157	GLN
20	LJ	311	HIS
20	LJ	438	HIS
22	LL	528	GLN
22	LL	750	HIS
22	LL	888	GLN
25	LO	207	ASN
25	LO	216	ASN
25	LO	243	HIS
25	LO	273	HIS
27	LQ	387	GLN
29	LS	15	GLN
29	LS	85	ASN
29	LS	192	HIS
30	LT	53	ASN
32	LV	611	HIS
32	LV	1006	GLN
32	LV	1091	HIS
33	LW	396	HIS
33	LW	467	HIS
35	LY	303	GLN
35	LY	412	ASN
35	LY	520	HIS
36	LZ	158	HIS
37	La	24	GLN
37	La	131	ASN
37	La	165	ASN
38	Lb	286	HIS
38	Lb	690	GLN
38	Lb	778	HIS
38	Lb	819	ASN
39	Lc	257	ASN
39	Lc	321	ASN
39	Lc	381	ASN
41	Le	412	ASN
42	Lf	236	HIS
42	Lf	378	HIS
43	Lg	131	GLN

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
43	Lg	180	HIS
43	Lg	188	HIS
44	Lh	742	HIS
45	Li	183	HIS
49	Lm	424	GLN
51	Lo	149	ASN
51	Lo	157	GLN
51	Lo	238	HIS
51	Lo	293	GLN
52	Lp	389	ASN
52	Lp	710	GLN
52	Lp	735	HIS
53	Lq	112	GLN
53	Lq	237	HIS
53	Lq	307	HIS
53	Lq	352	HIS
53	Lq	522	HIS
53	Lq	660	HIS
53	Lq	689	GLN
53	Lq	868	HIS
54	Lr	4	ASN
57	Lu	358	GLN
57	Lu	468	GLN
57	Lu	494	HIS
58	Lv	19	HIS
59	Lw	86	GLN
59	Lw	106	HIS
59	Lw	109	GLN
60	Lx	303	HIS
61	Ly	279	GLN
61	Ly	298	HIS
61	Ly	459	HIS
61	Ly	509	GLN
61	Ly	519	GLN
64	UB	300	HIS
65	UC	240	HIS
67	UE	118	HIS
67	UE	181	HIS
68	UF	15	GLN
68	UF	17	GLN
69	UG	343	HIS

5.3.3 RNA (i)

Mol	Chain	Analysed	Backbone Outliers	Pucker Outliers
100	lS	6/7 (85%)	1 (16%)	0
101	lT	13/14 (92%)	3 (23%)	0
101	lW	13/14 (92%)	1 (7%)	0
102	lU	14/15 (93%)	4 (28%)	0
103	lV	9/10 (90%)	0	0
103	lY	9/10 (90%)	5 (55%)	0
104	lX	57/58 (98%)	21 (36%)	0
72	l0	43/44 (97%)	12 (27%)	0
73	l1	49/50 (98%)	11 (22%)	0
74	l2	29/31 (93%)	6 (20%)	0
75	l3	58/59 (98%)	12 (20%)	0
76	l4	93/94 (98%)	26 (27%)	0
77	l5	35/36 (97%)	7 (20%)	0
78	l6	46/50 (92%)	6 (13%)	0
79	l7	66/69 (95%)	11 (16%)	0
80	l8	30/33 (90%)	8 (26%)	0
81	l9	90/91 (98%)	15 (16%)	0
82	lA	64/65 (98%)	16 (25%)	0
83	lB	42/45 (93%)	11 (26%)	0
84	lC	25/27 (92%)	4 (16%)	0
85	lD	15/16 (93%)	0	0
86	lE	24/29 (82%)	10 (41%)	0
87	lF	87/88 (98%)	19 (21%)	0
88	lG	25/26 (96%)	4 (16%)	0
89	lH	26/27 (96%)	8 (30%)	0
90	lI	43/48 (89%)	4 (9%)	0
91	lJ	277/279 (99%)	58 (20%)	0
92	lK	36/38 (94%)	8 (22%)	0
93	lL	88/91 (96%)	7 (7%)	0
94	lM	192/194 (98%)	41 (21%)	0
95	lN	55/62 (88%)	7 (12%)	0
96	lO	179/180 (99%)	36 (20%)	0
97	lP	28/29 (96%)	11 (39%)	0
98	lQ	36/37 (97%)	8 (22%)	0
99	lR	27/28 (96%)	3 (11%)	0
All	All	1929/1994 (96%)	404 (20%)	0

All (404) RNA backbone outliers are listed below:

Mol	Chain	Res	Type
72	l0	12	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
72	l0	13	C
72	l0	14	A
72	l0	15	G
72	l0	19	C
72	l0	20	C
72	l0	24	C
72	l0	25	C
72	l0	27	A
72	l0	31	G
72	l0	43	U
72	l0	54	C
73	l1	3	C
73	l1	7	G
73	l1	8	A
73	l1	9	C
73	l1	24	G
73	l1	25	G
73	l1	26	A
73	l1	28	U
73	l1	32	A
73	l1	49	A
73	l1	50	A
74	l2	2	U
74	l2	17	U
74	l2	24	A
74	l2	26	U
74	l2	29	A
74	l2	30	A
75	l3	8	A
75	l3	16	U
75	l3	17	A
75	l3	19	A
75	l3	20	A
75	l3	36	U
75	l3	41	A
75	l3	43	A
75	l3	52	A
75	l3	53	G
75	l3	57	A
75	l3	60	A
76	l4	7	A
76	l4	8	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
76	l4	9	U
76	l4	10	U
76	l4	12	A
76	l4	13	U
76	l4	27	G
76	l4	28	U
76	l4	35	A
76	l4	39	U
76	l4	41	C
76	l4	42	A
76	l4	51	U
76	l4	52	A
76	l4	54	A
76	l4	57	G
76	l4	60	G
76	l4	68	U
76	l4	69	A
76	l4	70	G
76	l4	74	C
76	l4	75	A
76	l4	86	G
76	l4	88	A
76	l4	89	U
76	l4	92	A
77	l5	27	U
77	l5	28	C
77	l5	29	A
77	l5	30	U
77	l5	31	U
77	l5	42	U
77	l5	44	U
78	l6	2	C
78	l6	8	C
78	l6	20	G
78	l6	31	C
78	l6	41	A
78	l6	50	A
79	l7	7	U
79	l7	8	G
79	l7	14	A
79	l7	24	A
79	l7	25	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
79	l7	26	C
79	l7	40	U
79	l7	41	A
79	l7	44	A
79	l7	46	U
79	l7	66	A
80	l8	2	G
80	l8	10	A
80	l8	15	C
80	l8	17	A
80	l8	22	A
80	l8	23	U
80	l8	24	A
80	l8	30	U
81	l9	4	U
81	l9	7	U
81	l9	10	C
81	l9	13	G
81	l9	14	U
81	l9	21	A
81	l9	25	A
81	l9	26	A
81	l9	44	U
81	l9	45	A
81	l9	49	A
81	l9	50	C
81	l9	55	U
81	l9	56	G
81	l9	60	U
82	lA	3	A
82	lA	15	A
82	lA	17	A
82	lA	18	C
82	lA	19	U
82	lA	24	A
82	lA	30	G
82	lA	31	U
82	lA	38	A
82	lA	39	A
82	lA	46	C
82	lA	48	A
82	lA	53	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
82	lA	54	A
82	lA	57	U
82	lA	58	A
83	lB	3	U
83	lB	9	A
83	lB	10	A
83	lB	14	G
83	lB	17	A
83	lB	18	U
83	lB	22	G
83	lB	24	U
83	lB	41	C
83	lB	43	G
83	lB	45	A
84	lC	10	A
84	lC	12	A
84	lC	22	C
84	lC	25	A
86	lE	2	G
86	lE	4	C
86	lE	5	G
86	lE	7	G
86	lE	15	G
86	lE	16	U
86	lE	17	G
86	lE	19	G
86	lE	20	U
86	lE	29	A
87	lF	12	C
87	lF	19	U
87	lF	20	A
87	lF	21	U
87	lF	23	U
87	lF	24	G
87	lF	25	A
87	lF	26	U
87	lF	27	U
87	lF	28	G
87	lF	29	G
87	lF	30	U
87	lF	36	A
87	lF	37	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
87	lF	50	U
87	lF	62	A
87	lF	82	C
87	lF	87	A
87	lF	88	A
88	lG	7	A
88	lG	8	U
88	lG	15	A
88	lG	16	A
89	lH	2	U
89	lH	3	C
89	lH	7	G
89	lH	8	C
89	lH	13	C
89	lH	14	G
89	lH	25	A
89	lH	26	A
90	lI	15	C
90	lI	38	A
90	lI	42	A
90	lI	44	A
91	lJ	2	G
91	lJ	10	U
91	lJ	16	G
91	lJ	19	C
91	lJ	20	A
91	lJ	22	C
91	lJ	37	C
91	lJ	45	A
91	lJ	46	C
91	lJ	47	U
91	lJ	48	G
91	lJ	53	G
91	lJ	66	A
91	lJ	67	U
91	lJ	69	C
91	lJ	71	U
91	lJ	72	G
91	lJ	77	G
91	lJ	78	U
91	lJ	84	A
91	lJ	85	A

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
91	lJ	86	C
91	lJ	87	A
91	lJ	88	U
91	lJ	93	A
91	lJ	95	G
91	lJ	96	G
91	lJ	99	G
91	lJ	110	A
91	lJ	120	G
91	lJ	121	G
91	lJ	122	U
91	lJ	128	A
91	lJ	129	A
91	lJ	130	U
91	lJ	133	U
91	lJ	134	U
91	lJ	145	U
91	lJ	153	U
91	lJ	154	G
91	lJ	161	A
91	lJ	162	G
91	lJ	171	A
91	lJ	172	C
91	lJ	183	U
91	lJ	185	G
91	lJ	186	U
91	lJ	215	U
91	lJ	221	A
91	lJ	234	A
91	lJ	246	G
91	lJ	250	A
91	lJ	258	A
91	lJ	261	A
91	lJ	265	U
91	lJ	266	U
91	lJ	267	A
91	lJ	283	A
92	lK	5	A
92	lK	6	G
92	lK	20	G
92	lK	22	A
92	lK	28	G

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
92	lK	31	G
92	lK	35	A
92	lK	37	G
93	lL	9	A
93	lL	16	U
93	lL	24	G
93	lL	41	A
93	lL	68	U
93	lL	86	A
93	lL	87	A
94	lM	5	A
94	lM	9	G
94	lM	12	G
94	lM	13	U
94	lM	14	A
94	lM	28	A
94	lM	29	U
94	lM	33	A
94	lM	54	U
94	lM	55	C
94	lM	71	A
94	lM	78	C
94	lM	79	C
94	lM	83	A
94	lM	84	U
94	lM	85	G
94	lM	87	C
94	lM	88	G
94	lM	99	C
94	lM	100	C
94	lM	107	A
94	lM	108	U
94	lM	110	G
94	lM	135	G
94	lM	136	U
94	lM	137	U
94	lM	138	C
94	lM	145	A
94	lM	147	A
94	lM	148	U
94	lM	149	G
94	lM	150	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
94	lM	155	C
94	lM	159	A
94	lM	160	G
94	lM	164	G
94	lM	165	G
94	lM	166	U
94	lM	177	U
94	lM	197	U
94	lM	198	C
95	lN	3	C
95	lN	22	A
95	lN	35	G
95	lN	39	A
95	lN	46	A
95	lN	47	U
95	lN	52	A
96	lO	13	C
96	lO	17	G
96	lO	18	U
96	lO	35	U
96	lO	41	U
96	lO	42	A
96	lO	58	A
96	lO	60	A
96	lO	77	U
96	lO	78	A
96	lO	81	U
96	lO	87	U
96	lO	94	A
96	lO	95	U
96	lO	105	G
96	lO	112	A
96	lO	113	A
96	lO	114	U
96	lO	119	A
96	lO	120	U
96	lO	121	C
96	lO	122	A
96	lO	129	C
96	lO	131	A
96	lO	133	U
96	lO	135	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
96	lO	142	U
96	lO	157	U
96	lO	158	U
96	lO	159	G
96	lO	160	G
96	lO	161	A
96	lO	162	A
96	lO	163	G
96	lO	174	A
96	lO	179	A
97	lP	10	U
97	lP	12	U
97	lP	13	U
97	lP	14	U
97	lP	15	U
97	lP	22	U
97	lP	23	U
97	lP	24	U
97	lP	26	U
97	lP	27	U
97	lP	28	U
98	lQ	2	U
98	lQ	7	U
98	lQ	8	U
98	lQ	19	U
98	lQ	22	U
98	lQ	32	U
98	lQ	35	U
98	lQ	36	U
99	lR	6	U
99	lR	23	U
99	lR	28	U
100	lS	2	U
101	lT	3	U
101	lT	6	U
101	lT	14	U
102	lU	5	U
102	lU	6	U
102	lU	14	U
102	lU	15	U
101	lW	2	U
104	lX	10	U

Continued on next page...

Continued from previous page...

Mol	Chain	Res	Type
104	lX	11	U
104	lX	16	U
104	lX	17	U
104	lX	18	U
104	lX	19	U
104	lX	22	U
104	lX	24	U
104	lX	25	U
104	lX	27	U
104	lX	31	U
104	lX	35	U
104	lX	40	U
104	lX	41	U
104	lX	42	U
104	lX	43	U
104	lX	48	U
104	lX	49	U
104	lX	50	U
104	lX	51	U
104	lX	58	U
103	lY	2	U
103	lY	6	U
103	lY	8	U
103	lY	9	U
103	lY	10	U

There are no RNA pucker outliers to report.

5.4 Non-standard residues in protein, DNA, RNA chains

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

5.5 Carbohydrates

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

The following chains have linkage breaks:

Mol	Chain	Number of breaks
7	L6	1
57	Lu	1
94	lM	1
91	lJ	1
84	lC	1

All chain breaks are listed below:

Model	Chain	Residue-1	Atom-1	Residue-2	Atom-2	Distance (Å)
1	L6	267:ALA	C	533:ARG	N	44.09
1	Lu	451:GLY	C	462:GLU	N	29.06
1	lM	166:U	O3'	174:G	P	22.23
1	lJ	103:U	O3'	108:U	P	11.87
1	lC	26:G	O3'	27:G	P	3.50

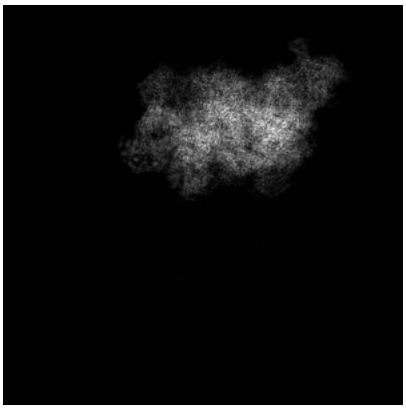
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-51104. These allow visual inspection of the internal detail of the map and identification of artifacts.

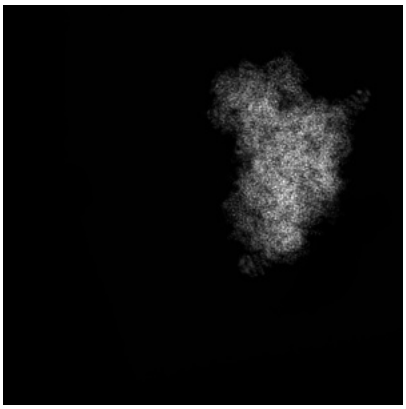
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

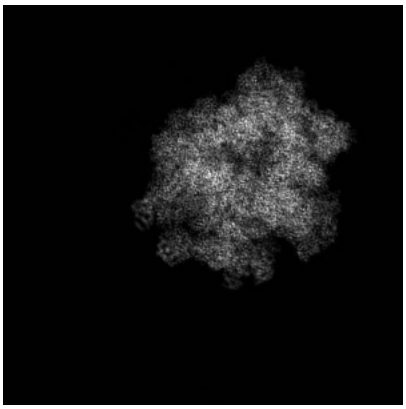
6.1.1 Primary map



X

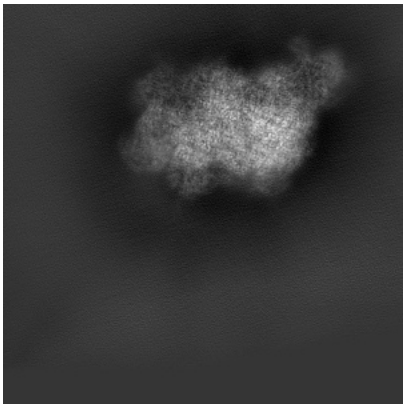


Y

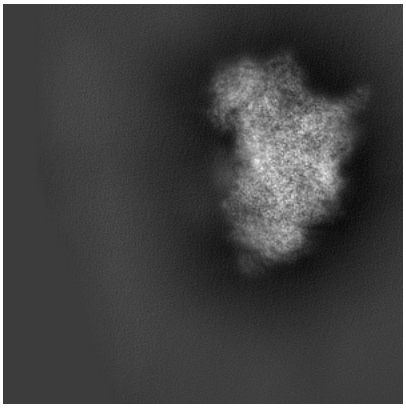


Z

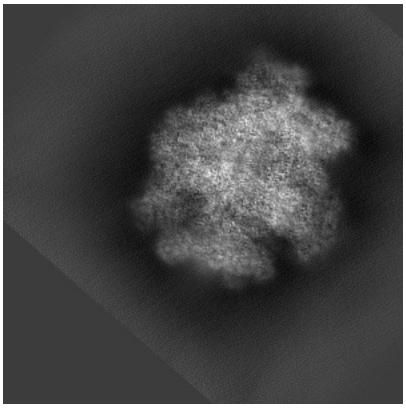
6.1.2 Raw map



X



Y



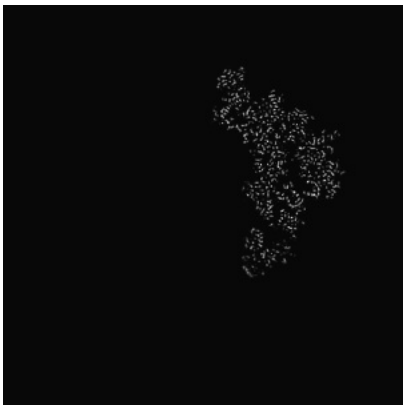
Z

The images above show the map projected in three orthogonal directions.

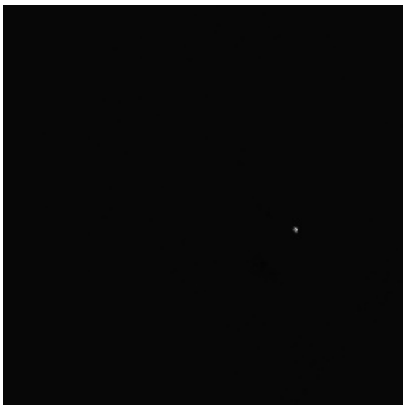
6.2 Central slices (i)

6.2.1 Primary map

X Index: 225

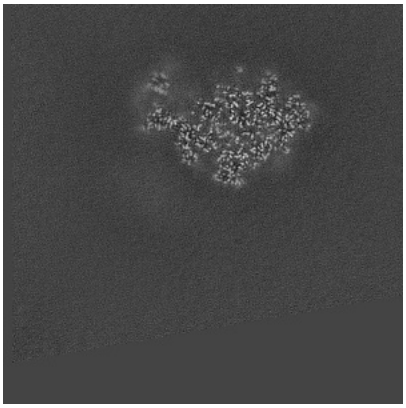


Y Index: 225

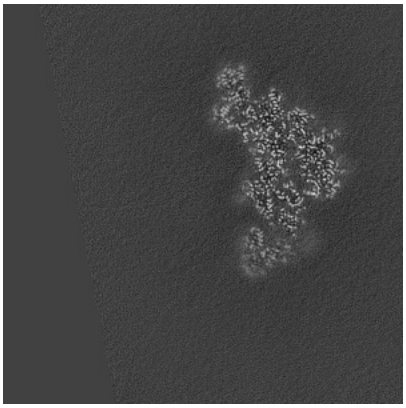


Z Index: 225

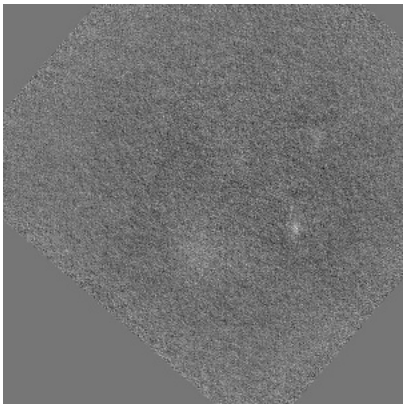
6.2.2 Raw map



X Index: 225



Y Index: 225

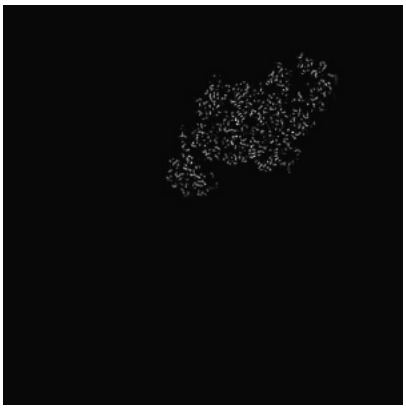


Z Index: 225

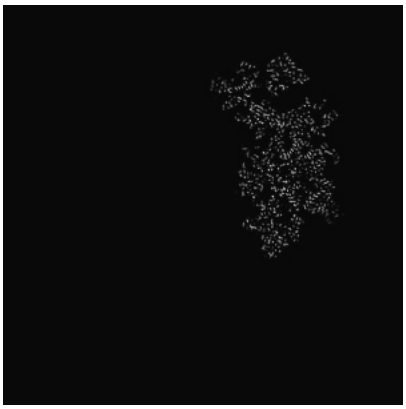
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map



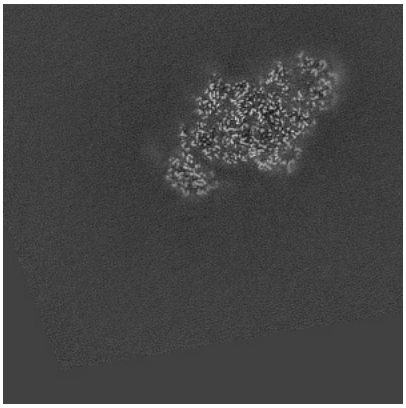
X Index: 320



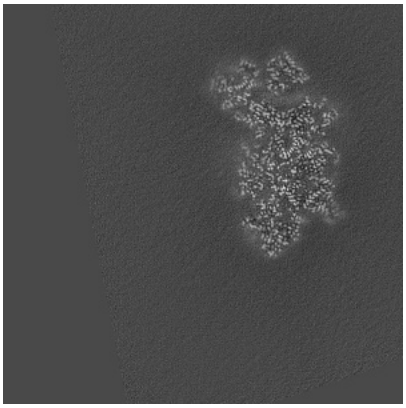
Y Index: 300

Z Index: 317

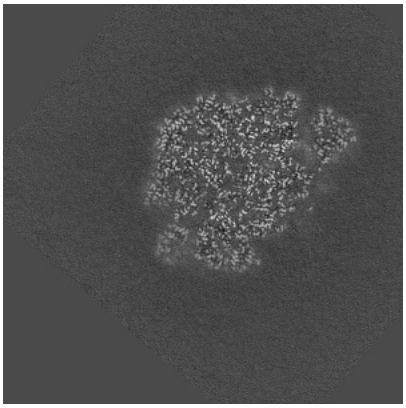
6.3.2 Raw map



X Index: 320



Y Index: 300

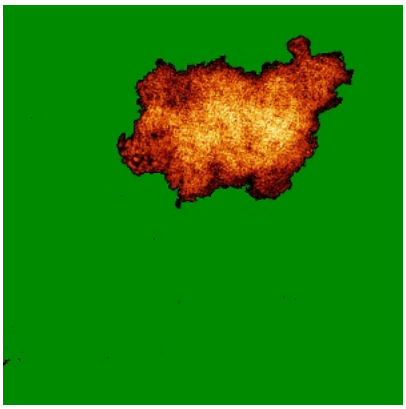


Z Index: 317

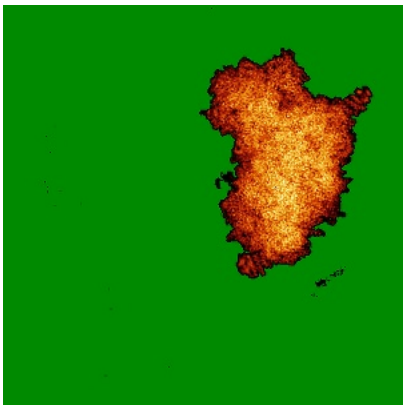
The images above show the largest variance slices of the map in three orthogonal directions.

6.4 Orthogonal standard-deviation projections (False-color) (i)

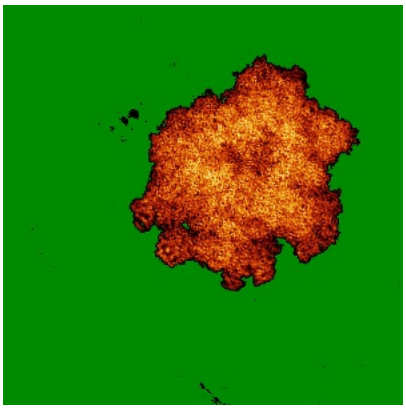
6.4.1 Primary map



X

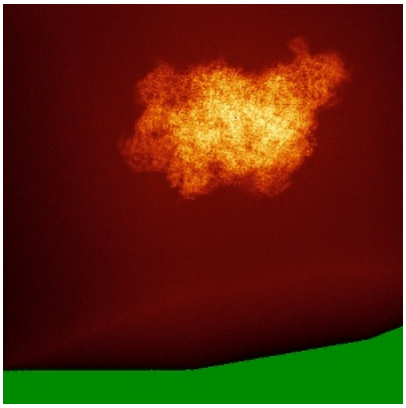


Y

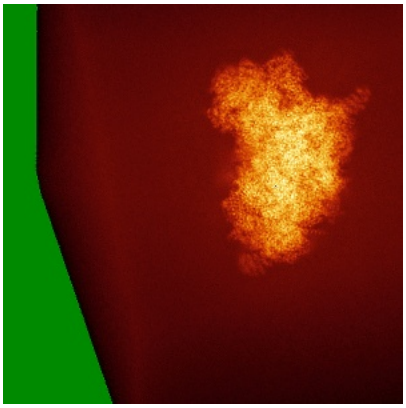


Z

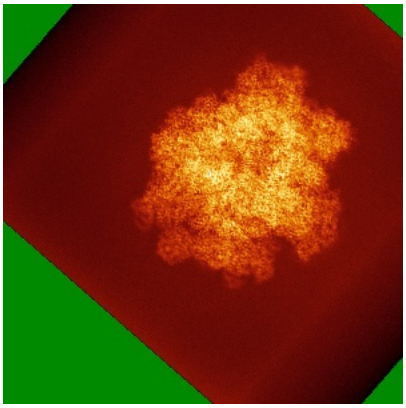
6.4.2 Raw map



X



Y

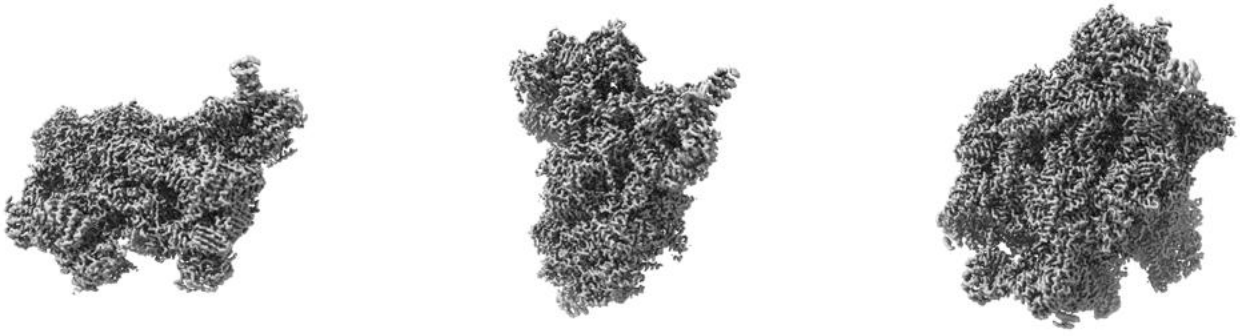


Z

The images above show the map standard deviation projections with false color in three orthogonal directions. Minimum values are shown in green, max in blue, and dark to light orange shades represent small to large values respectively.

6.5 Orthogonal surface views (i)

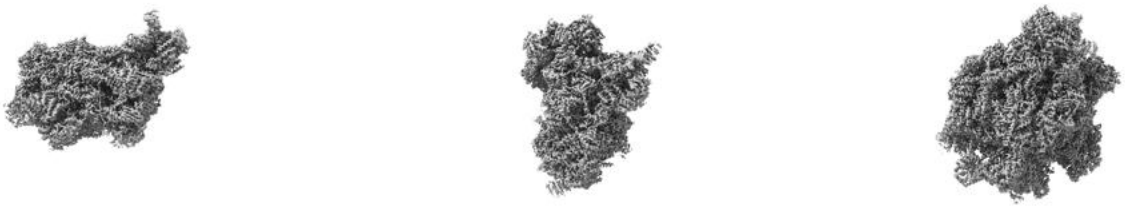
6.5.1 Primary map



X Y Z

The images above show the 3D surface view of the map at the recommended contour level 0.15. These images, in conjunction with the slice images, may facilitate assessment of whether an appropriate contour level has been provided.

6.5.2 Raw map



X Y Z

These images show the 3D surface of the raw map. The raw map's contour level was selected so that its surface encloses the same volume as the primary map does at its recommended contour level.

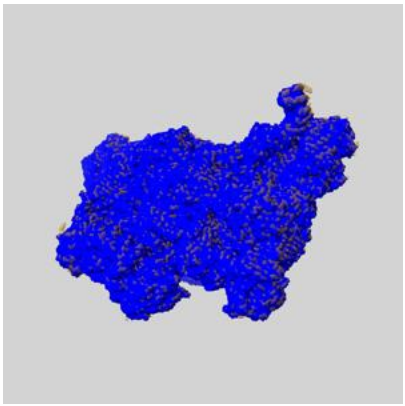
6.6 Mask visualisation

This section shows the 3D surface view of the primary map at 50% transparency overlaid with the specified mask at 0% transparency

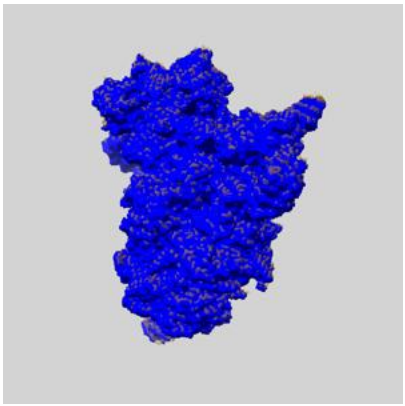
A mask typically either:

- Encompasses the whole structure
- Separates out a domain, a functional unit, a monomer or an area of interest from a larger structure

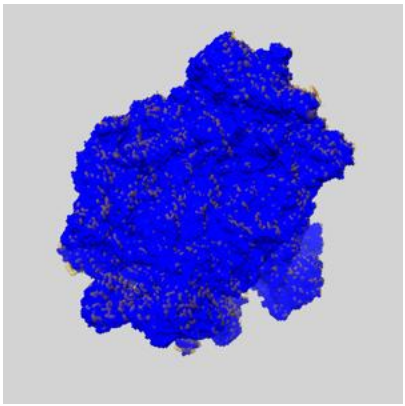
6.6.1 emd_51104_msk_1.map



X



Y

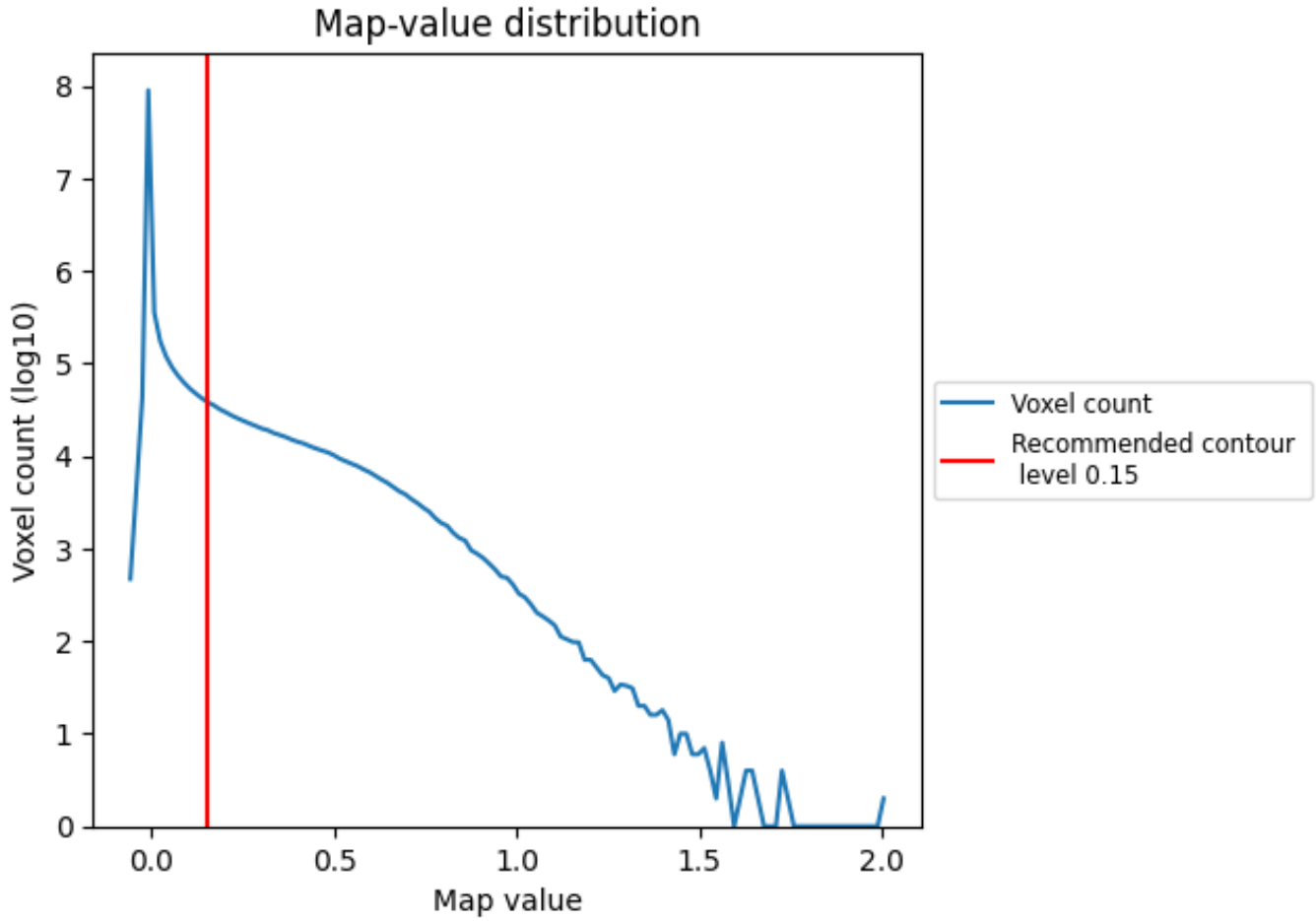


Z

7 Map analysis

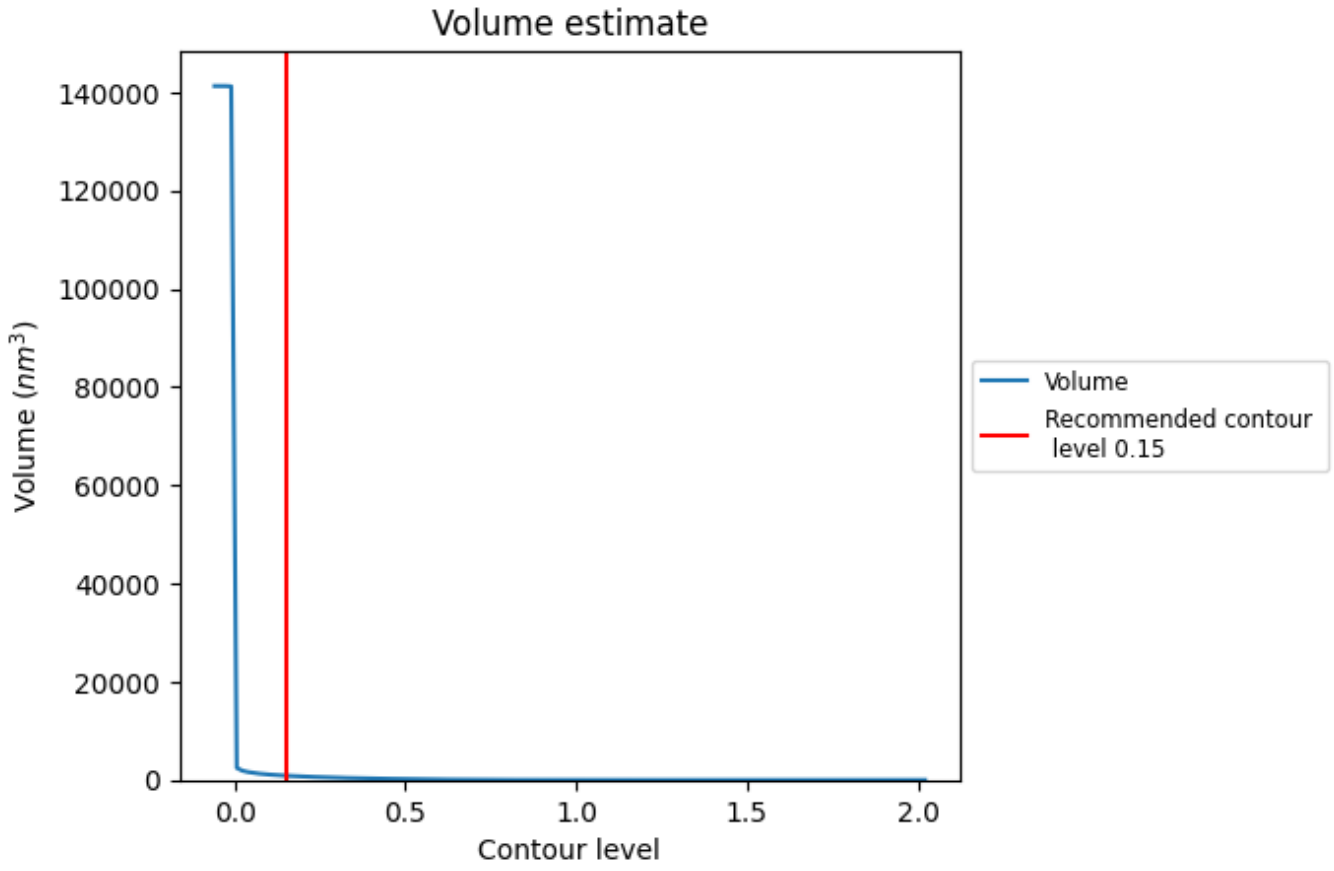
This section contains the results of statistical analysis of the map.

7.1 Map-value distribution



The map-value distribution is plotted in 128 intervals along the x-axis. The y-axis is logarithmic. A spike in this graph at zero usually indicates that the volume has been masked.

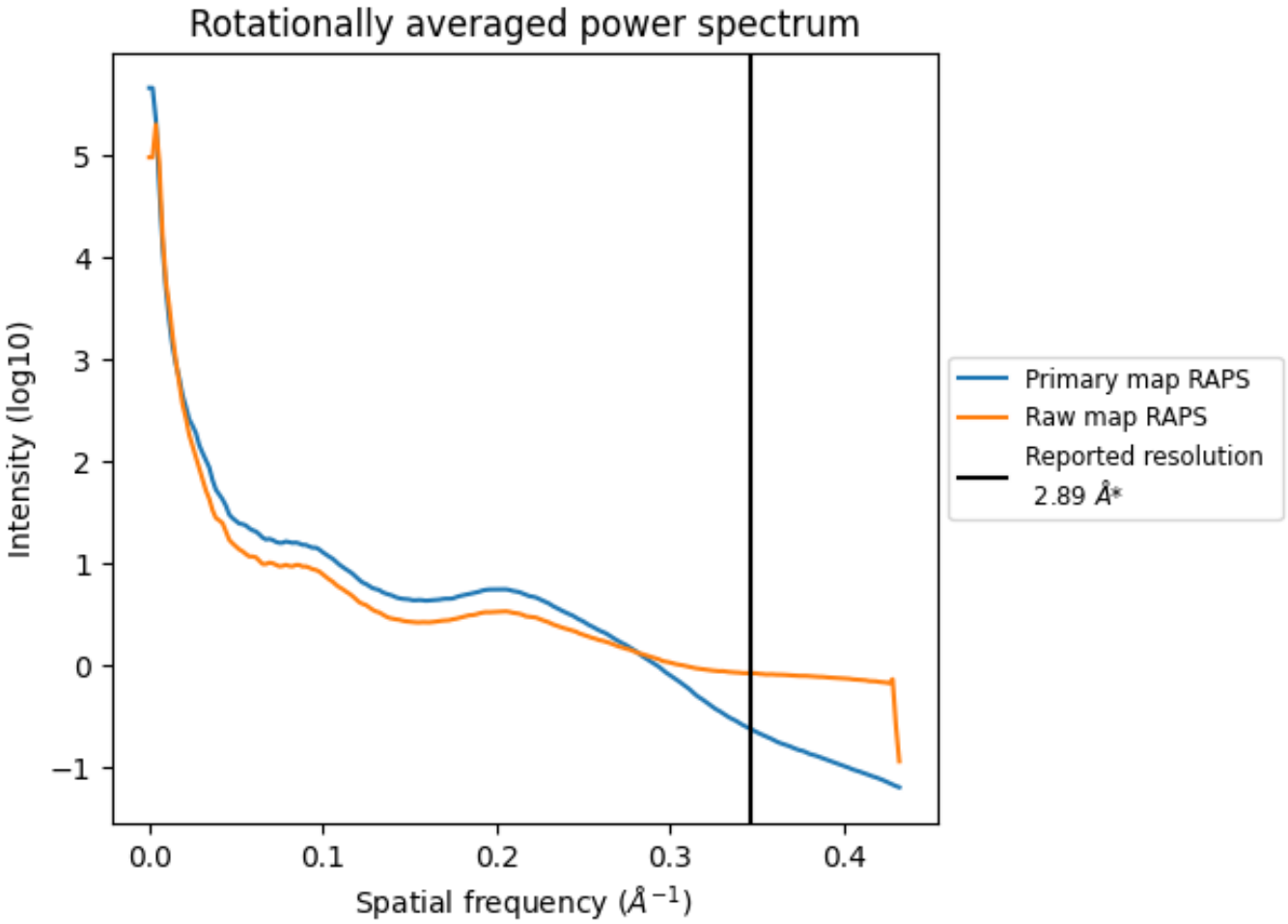
7.2 Volume estimate



The volume at the recommended contour level is 871 nm^3; this corresponds to an approximate mass of 787 kDa.

The volume estimate graph shows how the enclosed volume varies with the contour level. The recommended contour level is shown as a vertical line and the intersection between the line and the curve gives the volume of the enclosed surface at the given level.

7.3 Rotationally averaged power spectrum (i)

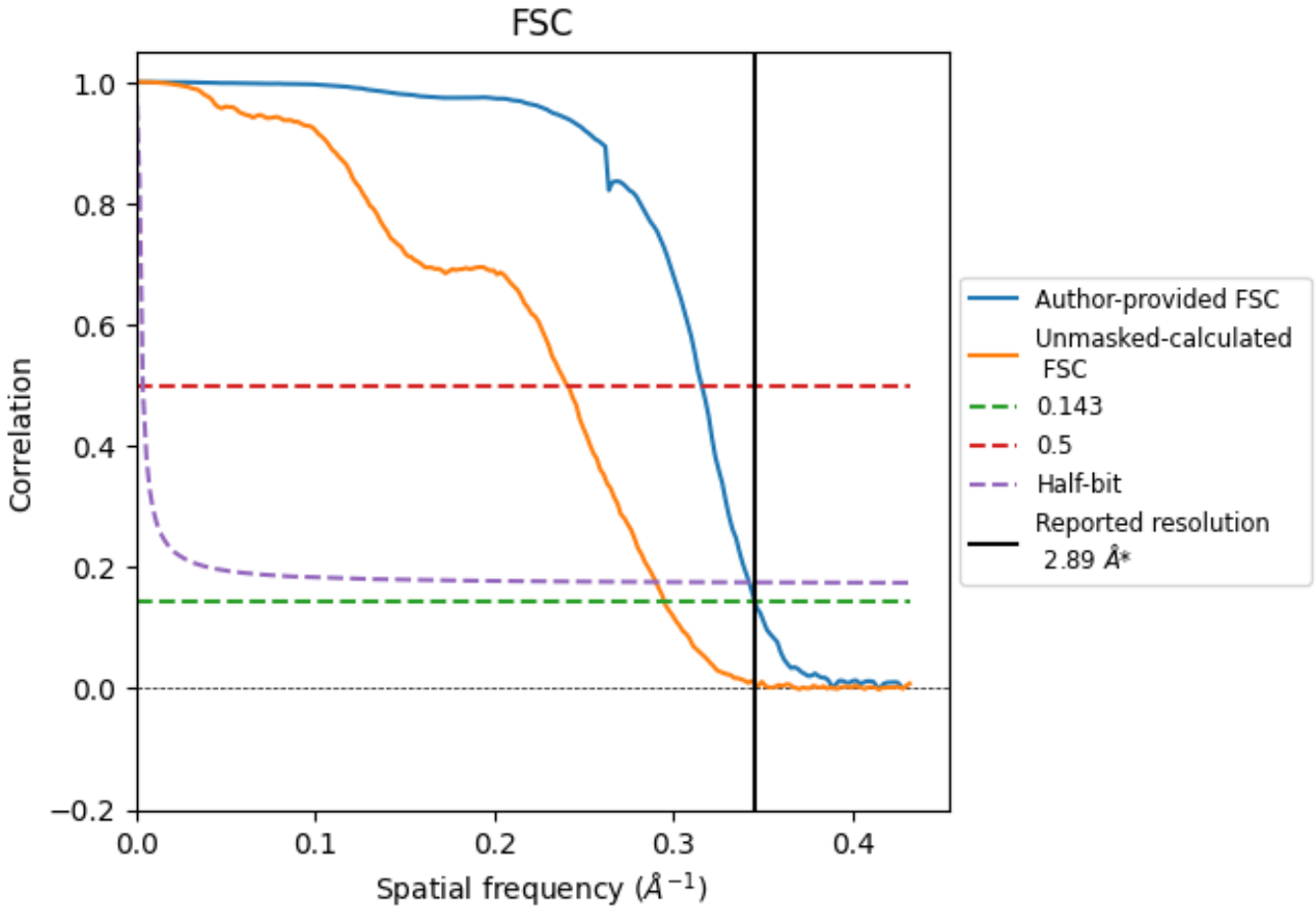


*Reported resolution corresponds to spatial frequency of 0.346 $Å^{-1}$

8 Fourier-Shell correlation

Fourier-Shell Correlation (FSC) is the most commonly used method to estimate the resolution of single-particle and subtomogram-averaged maps. The shape of the curve depends on the imposed symmetry, mask and whether or not the two 3D reconstructions used were processed from a common reference. The reported resolution is shown as a black line. A curve is displayed for the half-bit criterion in addition to lines showing the 0.143 gold standard cut-off and 0.5 cut-off.

8.1 FSC



*Reported resolution corresponds to spatial frequency of 0.346 Å^{-1}

8.2 Resolution estimates (i)

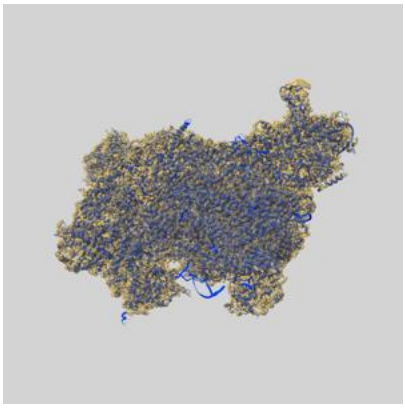
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	2.89	-	-
Author-provided FSC curve	2.89	3.17	2.92
Unmasked-calculated*	3.39	4.15	3.44

*Resolution estimate based on FSC curve calculated by comparison of deposited half-maps. The value from deposited half-maps intersecting FSC 0.143 CUT-OFF 3.39 differs from the reported value 2.89 by more than 10 %

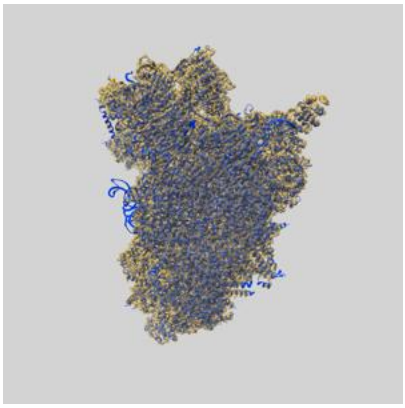
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-51104 and PDB model 9G6K. Per-residue inclusion information can be found in section 3 on page 24.

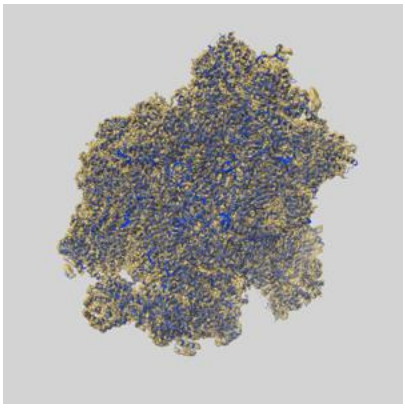
9.1 Map-model overlay



X



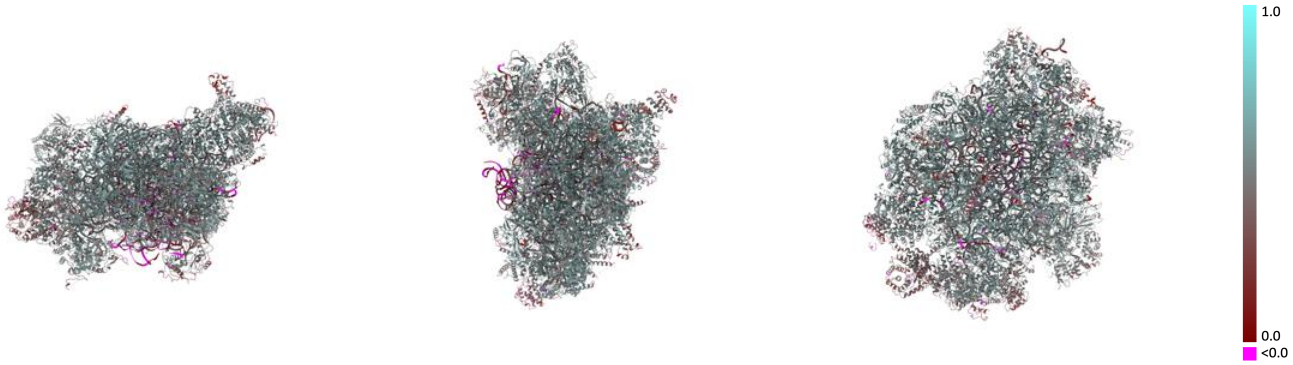
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.15 at 50% transparency in yellow overlaid with a ribbon representation of the model coloured in blue. These images allow for the visual assessment of the quality of fit between the atomic model and the map.

9.2 Q-score mapped to coordinate model (i)



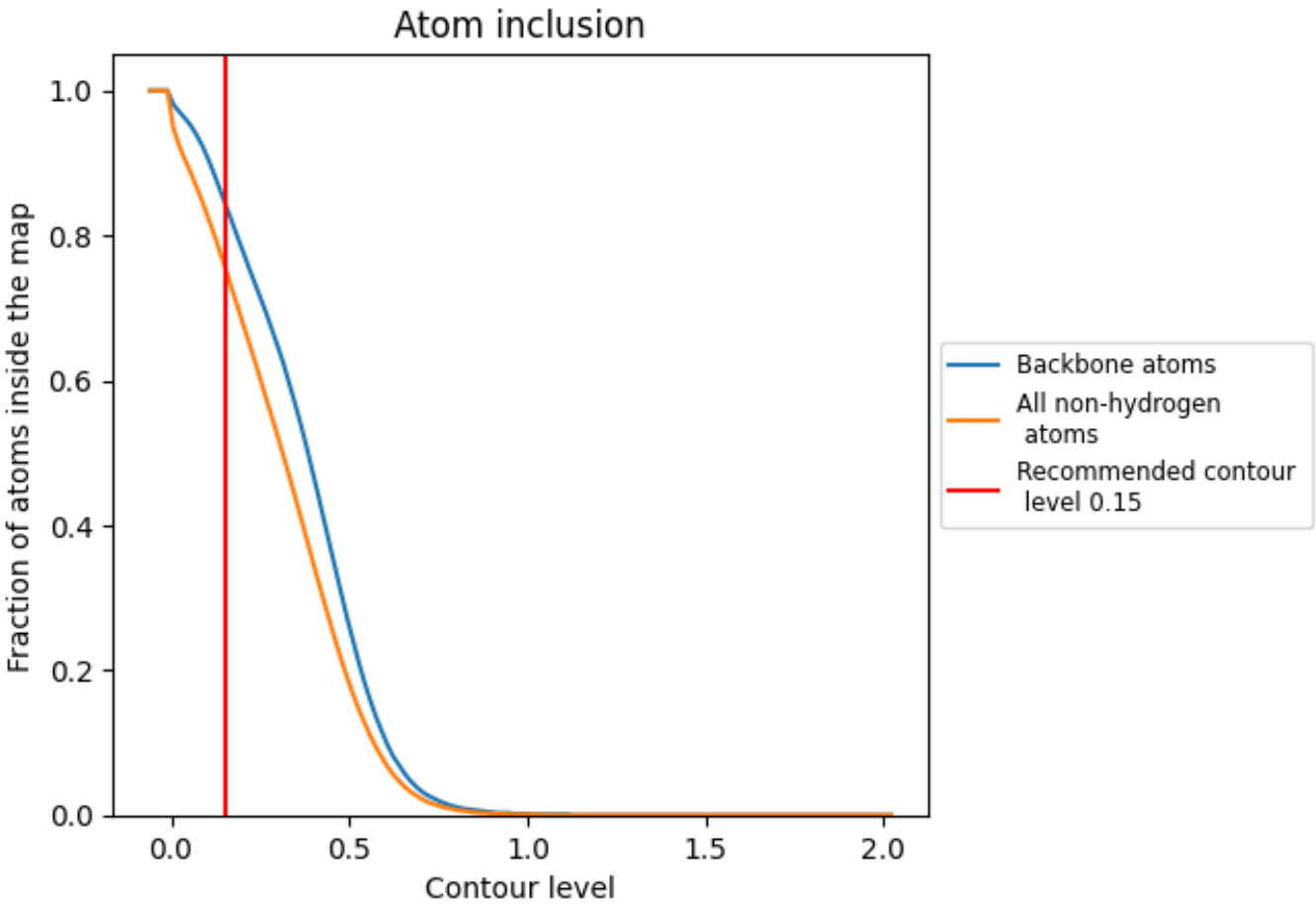
X Y Z

The images above show the model with each residue coloured according its Q-score. This shows their resolvability in the map with higher Q-score values reflecting better resolvability. Please note: Q-score is calculating the resolvability of atoms, and thus high values are only expected at resolutions at which atoms can be resolved. Low Q-score values may therefore be expected for many entries.

9.3 Atom inclusion mapped to coordinate model (i)

This section was not generated.

9.4 Atom inclusion (i)



At the recommended contour level, 85% of all backbone atoms, 76% of all non-hydrogen atoms, are inside the map.

9.5 Map-model fit summary

The table lists the average atom inclusion at the recommended contour level (0.15) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.7590	0.4820
L0	0.7970	0.5210
L1	0.7040	0.4720
L2	0.7320	0.4540
L3	0.8040	0.5190
L4	0.7980	0.5150
L5	0.7310	0.4910
L6	0.6090	0.4260
L7	0.6780	0.4810
L8	0.8520	0.5520
L9	0.7770	0.4980
LA	0.8410	0.5520
LB	0.8640	0.5600
LC	0.7640	0.4930
LD	0.7240	0.4780
LE	0.7590	0.5080
LF	0.8790	0.5590
LG	0.8490	0.5420
LH	0.7190	0.4940
LI	0.7910	0.5350
LJ	0.8660	0.5550
LK	0.8180	0.5250
LL	0.7160	0.4680
LM	0.5640	0.3890
LN	0.8640	0.5720
LO	0.7640	0.5090
LP	0.8430	0.5430
LQ	0.8480	0.5480
LR	0.7570	0.5260
LS	0.8330	0.5430
LT	0.7210	0.4830
LU	0.8450	0.5600
LV	0.7500	0.4880
LW	0.8170	0.5450
LX	0.7530	0.4910

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
LY	0.8260	0.5450
LZ	0.8150	0.5380
La	0.8570	0.5640
Lb	0.8030	0.5230
Lc	0.5540	0.2980
Ld	0.5930	0.3190
Le	0.7060	0.4890
Lf	0.7690	0.5000
Lg	0.8590	0.5490
Lh	0.7570	0.5050
Li	0.7330	0.4750
Lj	0.7980	0.5370
Lk	0.8050	0.5160
Ll	0.8040	0.5280
Lm	0.7480	0.5230
Ln	0.8120	0.5000
Lo	0.7970	0.5100
Lp	0.8030	0.5270
Lq	0.6820	0.4190
Lr	0.8440	0.5550
Ls	0.7690	0.5080
Lt	0.6980	0.4670
Lu	0.7490	0.4960
Lv	0.6490	0.4380
Lw	0.7810	0.4930
Lx	0.7390	0.4940
Ly	0.8140	0.5370
Lz	0.7920	0.5240
UA	0.8060	0.5490
UB	0.8540	0.5470
UC	0.7060	0.4980
UD	0.8720	0.5650
UE	0.7600	0.5040
UF	0.8520	0.5550
UG	0.7970	0.5340
UH	0.8300	0.5540
UI	0.5490	0.2930
l0	0.8140	0.4580
l1	0.8700	0.5130
l2	0.6390	0.3320
l3	0.8200	0.4840
l4	0.8620	0.5000

Continued on next page...

Continued from previous page...

Chain	Atom inclusion	Q-score
l5	0.6660	0.4220
l6	0.8520	0.4920
l7	0.8570	0.5200
l8	0.7570	0.4220
l9	0.8690	0.5050
lA	0.8420	0.4720
lB	0.8270	0.4510
lC	0.7670	0.4090
lD	0.7100	0.4240
lE	0.7630	0.4360
lF	0.7700	0.4700
lG	0.8130	0.4690
lH	0.7590	0.4380
lI	0.7060	0.4610
lJ	0.4820	0.2990
lK	0.7530	0.4470
lL	0.8490	0.5110
lM	0.5990	0.3750
lN	0.7970	0.4960
lO	0.8230	0.4950
lP	0.8170	0.4200
lQ	0.7840	0.4170
lR	0.8230	0.4590
lS	0.6000	0.4180
lT	0.8070	0.4370
lU	0.5800	0.3320
lV	0.8550	0.4880
lW	0.8500	0.4700
lX	0.7100	0.3880
lY	0.1550	0.0000