Full wwPDB EM Validation Report ⓘ

Mar 10, 2026 – 02:08 AM UTC

PDB ID	:	9I8N / pdb_00009i8n
EMDB ID	:	EMD-52730
Title	:	NEDD1-bound native vertebrate gamma-tubulin ring complex from Xenopus laevis
Authors	:	Vermeulen, B.J.A.; Pfeffer, S.
Deposited on	:	2025-02-05
Resolution	:	4.60 Å(reported)

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 ⓘ symbol.

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

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

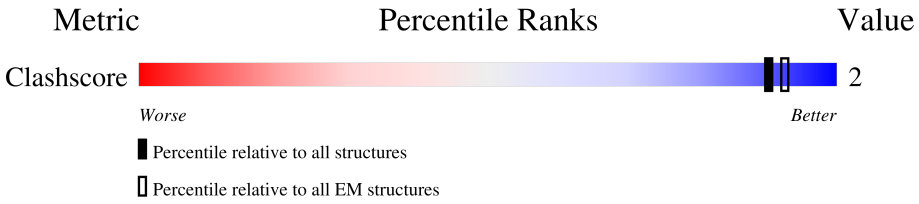
EMDB validation analysis	:	0.0.1.dev132
MolProbity	:	4-5-2 with Phenix2.0
Percentile statistics	:	20250101.v01 (using entries in the PDB archive January 1st 2025)
EM percentile statistics	:	202505.v01 (Using data in the EMDB archive up until May 2025)
MapQ	:	1.9.13
Ideal geometry (proteins)	:	Engh &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

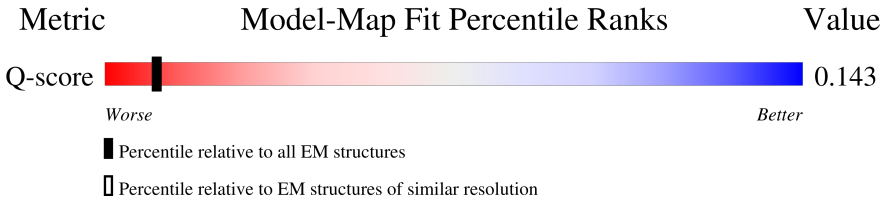
1 Overall quality at a glance

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

The reported resolution of this entry is 4.60 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	-
Q-score	-	25397	2407 (4.10 - 5.10)

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	A	896	30% 29% · 38%
1	C	896	30% 29% · 38%
1	E	896	32% 27% · 39%
1	G	896	31% 28% · 38%
1	M	896	60% 31% 27% · 39%
2	B	906	6% 34% 33% · 31%

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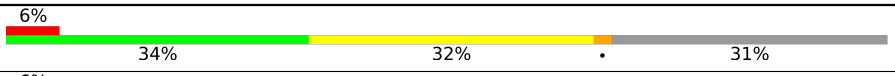
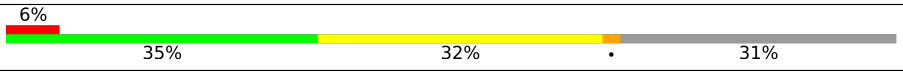
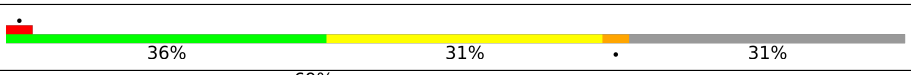
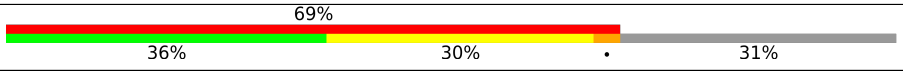
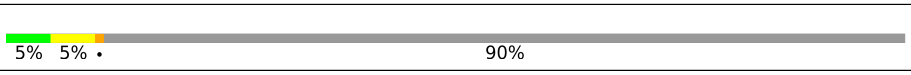
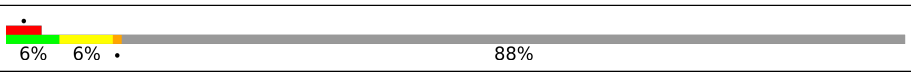
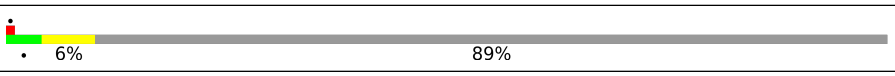
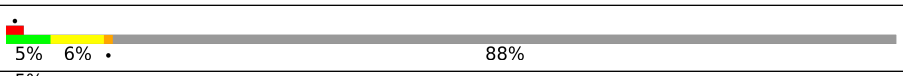
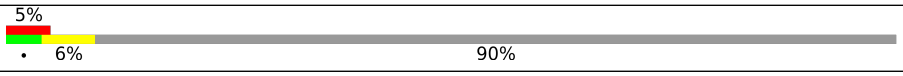
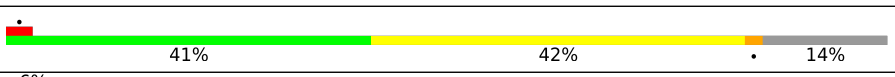
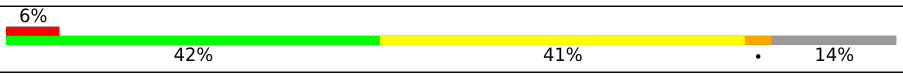
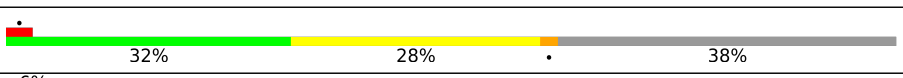
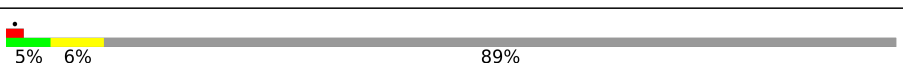
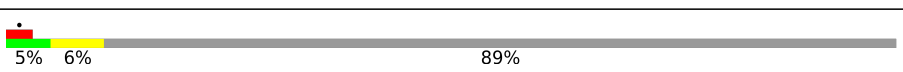
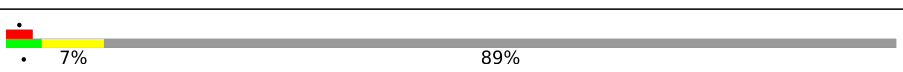
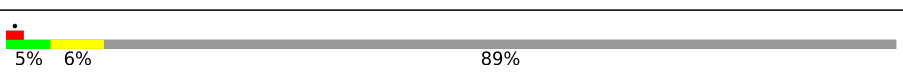
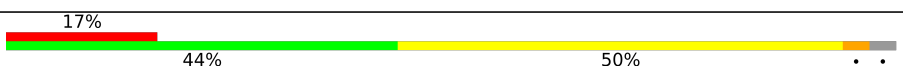
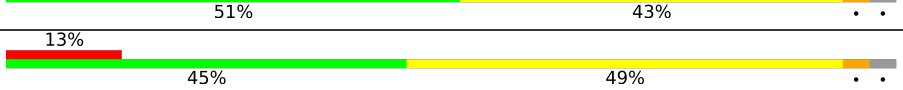
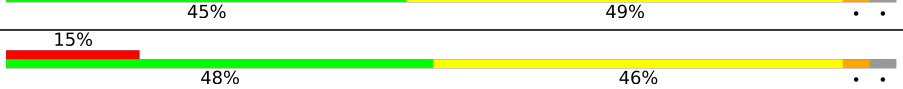
Mol	Chain	Length	Quality of chain
2	D	906	
2	F	906	
2	H	906	
2	N	906	
2	O	906	
2	Q	906	
2	R	906	
2	S	906	
2	T	906	
3	I	666	
3	K	666	
4	J	1019	
5	L	1698	
6	P	375	
7	U	671	
7	V	671	
7	W	671	
7	X	671	
8	a	451	
8	b	451	
8	c	451	
8	d	451	
8	e	451	
8	f	451	
8	g	451	

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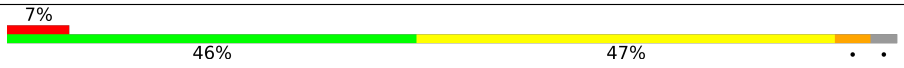
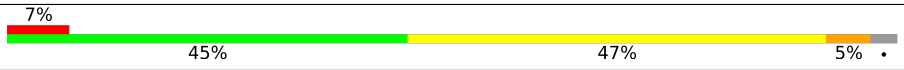
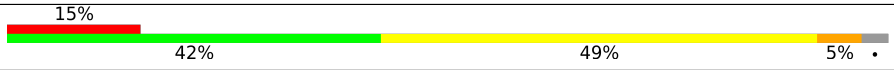
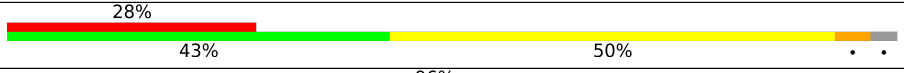
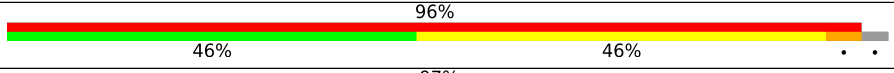
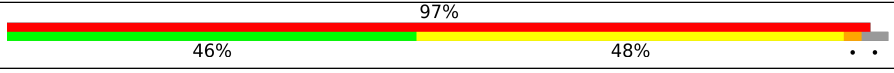
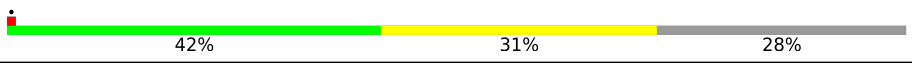
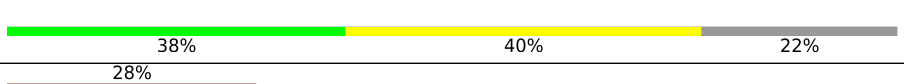
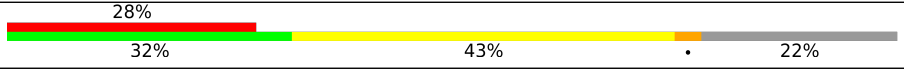
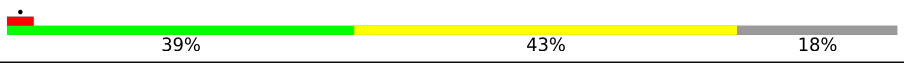
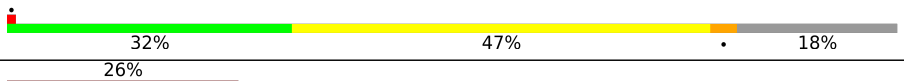
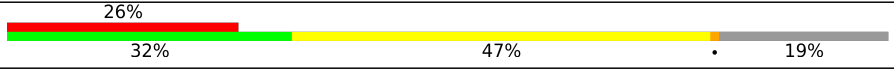
Mol	Chain	Length	Quality of chain
8	h	451	
8	i	451	
8	j	451	
8	k	451	
8	l	451	
8	m	451	
8	n	451	
9	o	72	
9	p	72	
9	q	72	
9	r	72	
9	s	72	
9	t	72	

2 Entry composition

There are 9 unique types of molecules in this entry. The entry contains 129788 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 Gamma-tubulin complex component.

Mol	Chain	Residues	Atoms					AltConf	Trace
1	A	553	Total	C	N	O	S	0	0
			4519	2904	742	841	32		
1	C	553	Total	C	N	O	S	0	0
			4519	2904	742	841	32		
1	E	551	Total	C	N	O	S	0	0
			4508	2898	740	838	32		
1	G	553	Total	C	N	O	S	0	0
			4519	2904	742	841	32		
1	M	551	Total	C	N	O	S	0	0
			4503	2894	739	838	32		

- Molecule 2 is a protein called Gamma-tubulin complex component 3 homolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
2	B	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	D	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	F	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	H	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	N	625	Total	C	N	O	S	0	0
			5118	3276	880	936	26		
2	O	93	Total	C	N	O	S	0	0
			753	480	137	134	2		
2	Q	109	Total	C	N	O	S	0	0
			878	557	160	159	2		
2	R	98	Total	C	N	O	S	0	0
			794	503	144	145	2		
2	S	109	Total	C	N	O	S	0	0
			878	557	160	159	2		
2	T	93	Total	C	N	O	S	0	0
			753	480	137	134	2		

- Molecule 3 is a protein called Gamma-tubulin complex component.

Mol	Chain	Residues	Atoms					AltConf	Trace
3	I	571	Total	C	N	O	S	0	0
			4635	2993	790	831	21		
3	K	571	Total	C	N	O	S	0	0
			4635	2993	790	831	21		

- Molecule 4 is a protein called Gamma-tubulin complex component.

Mol	Chain	Residues	Atoms					AltConf	Trace
4	J	636	Total	C	N	O	S	0	0
			5252	3406	890	930	26		

- Molecule 5 is a protein called Gamma-tubulin complex component 6.

Mol	Chain	Residues	Atoms					AltConf	Trace
5	L	780	Total	C	N	O	S	0	0
			6303	4088	1029	1155	31		

There are 2 discrepancies between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
L	392	ASP	GLU	conflict	UNP A0A974HT83
L	394	VAL	ILE	conflict	UNP A0A974HT83

- Molecule 6 is a protein called Actin, cytoplasmic 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
6	P	371	Total	C	N	O	S	0	0
			2892	1828	486	557	21		

- Molecule 7 is a protein called NEDD1 gamma-tubulin ring complex targeting factor L homeolog.

Mol	Chain	Residues	Atoms					AltConf	Trace
7	U	75	Total	C	N	O	S	0	0
			634	396	112	122	4		
7	V	75	Total	C	N	O	S	0	0
			634	396	112	122	4		
7	W	75	Total	C	N	O	S	0	0
			634	396	112	122	4		
7	X	75	Total	C	N	O	S	0	0
			634	396	112	122	4		

- Molecule 8 is a protein called Tubulin gamma-1 chain.

Mol	Chain	Residues	Atoms					AltConf	Trace
8	a	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	b	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	c	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	d	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	e	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	f	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	g	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	h	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	i	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	j	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	k	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	l	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	m	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		
8	n	436	Total	C	N	O	S	0	0
			3479	2188	615	662	14		

- Molecule 9 is a protein called Mitotic-spindle organizing protein 1.

Mol	Chain	Residues	Atoms					AltConf	Trace
9	o	52	Total	C	N	O	S	0	0
			403	248	71	79	5		
9	p	56	Total	C	N	O	S	0	0
			429	263	73	89	4		
9	q	56	Total	C	N	O	S	0	0
			432	266	76	86	4		
9	r	59	Total	C	N	O	S	0	0
			454	278	80	91	5		
9	s	59	Total	C	N	O	S	0	0
			451	277	79	90	5		

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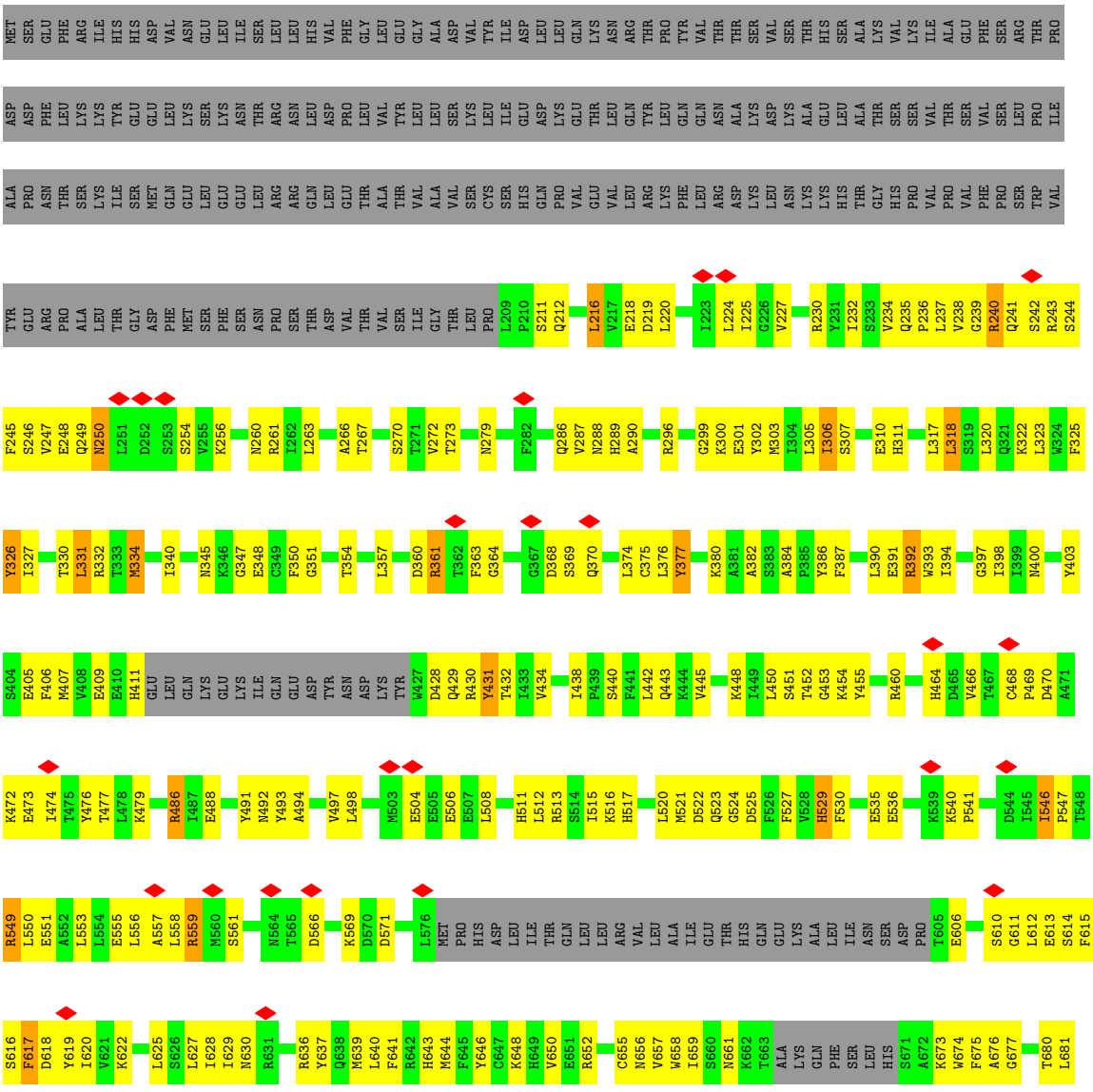
Mol	Chain	Residues	Atoms					AltConf	Trace
9	t	58	Total	C	N	O	S	0	0
			446	274	78	89	5		

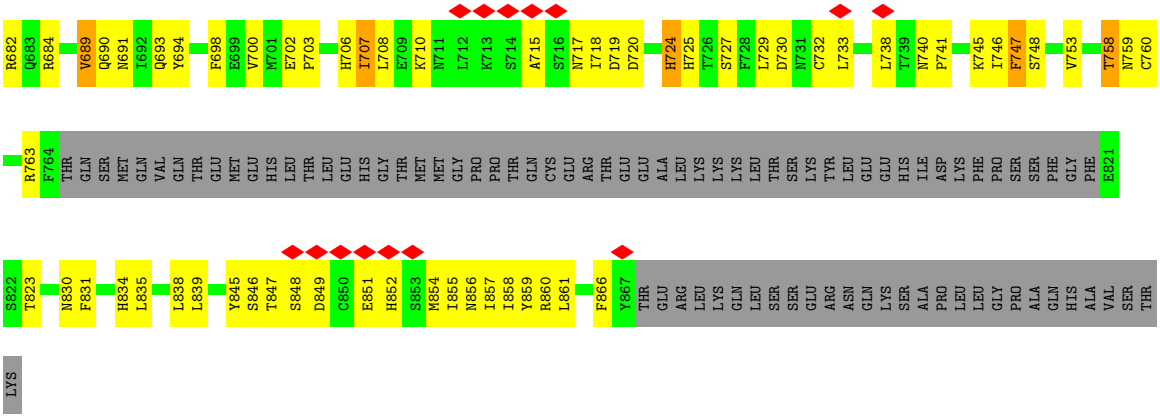
3 Residue-property plots (i)

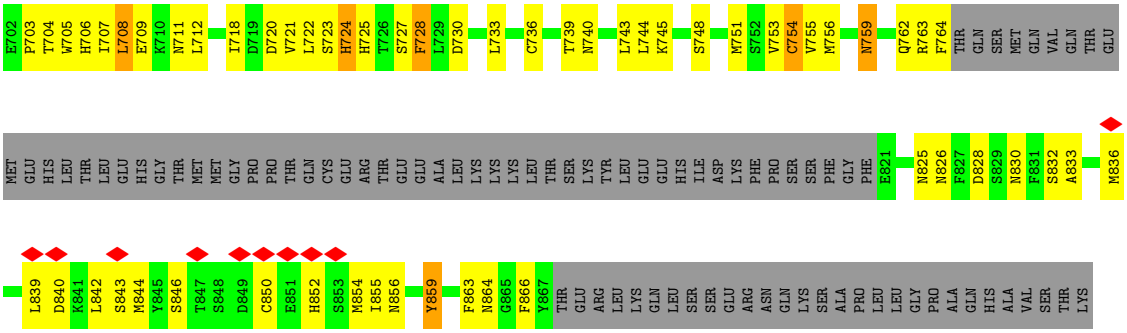
These plots are drawn for all protein, RNA, DNA and oligosaccharide chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and atom inclusion 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: Gamma-tubulin complex component

Chain A:

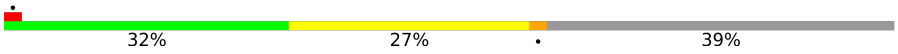


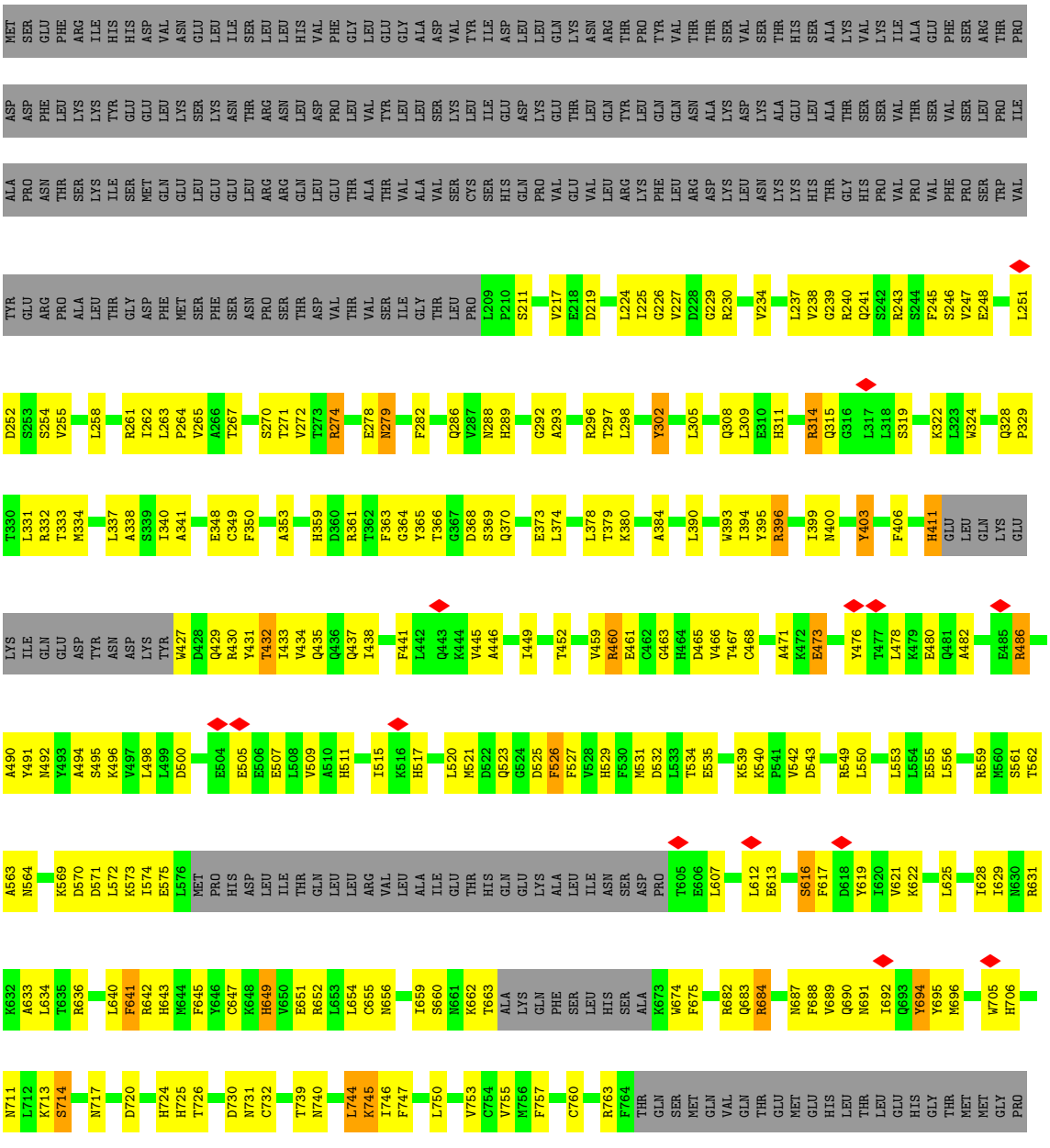


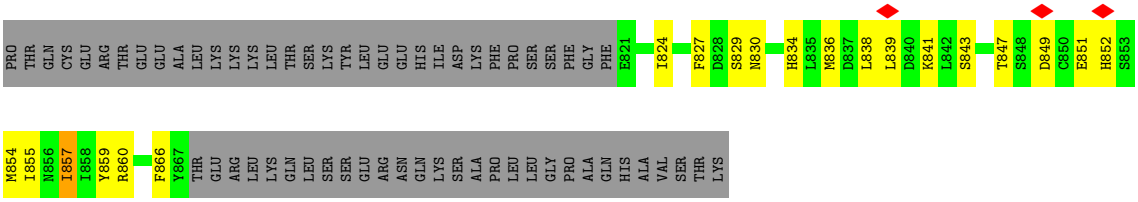


• Molecule 1: Gamma-tubulin complex component

Chain E:

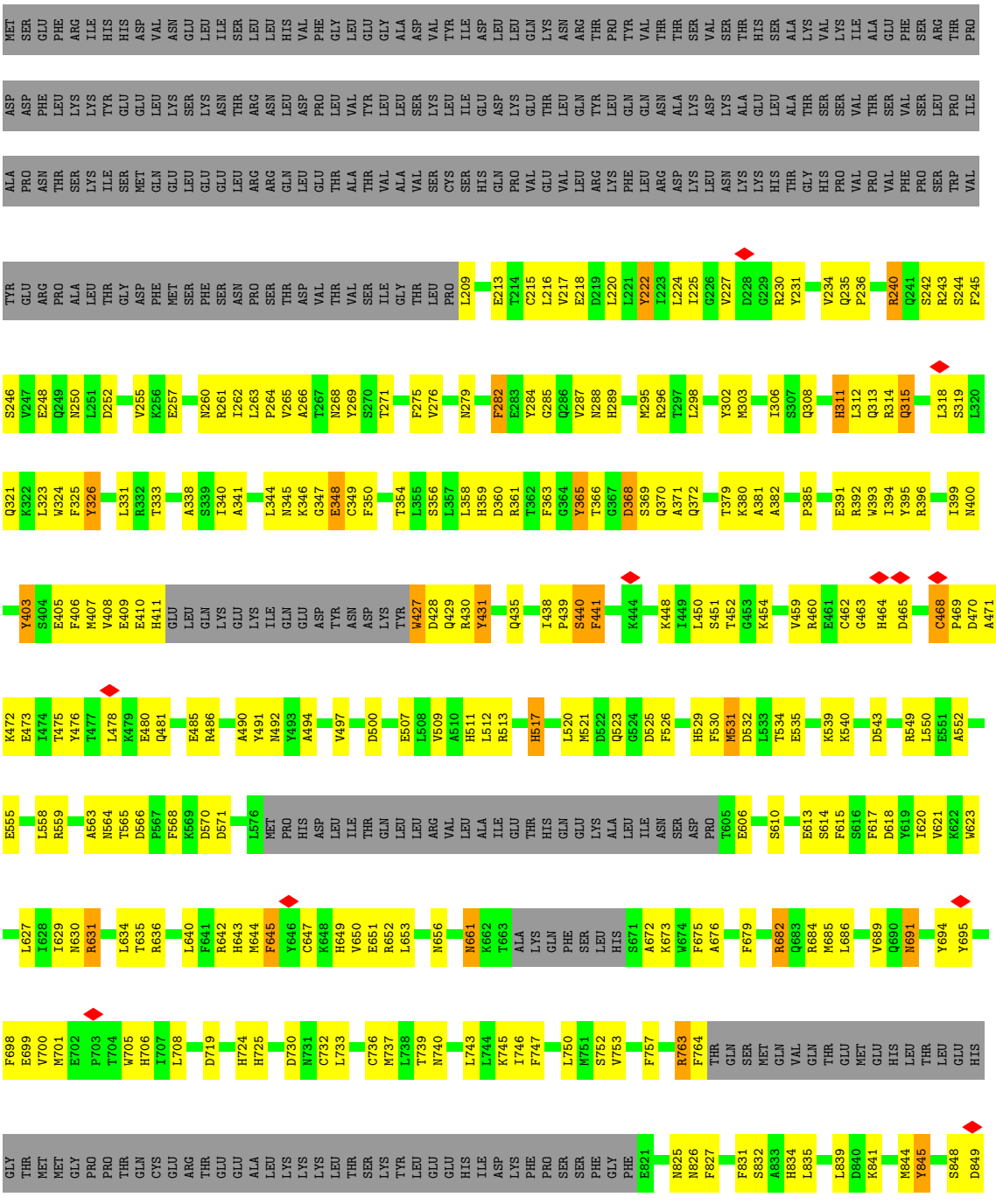


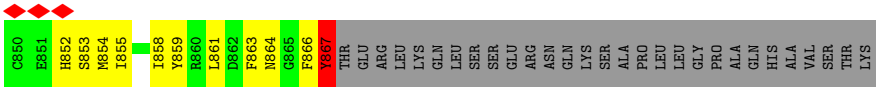




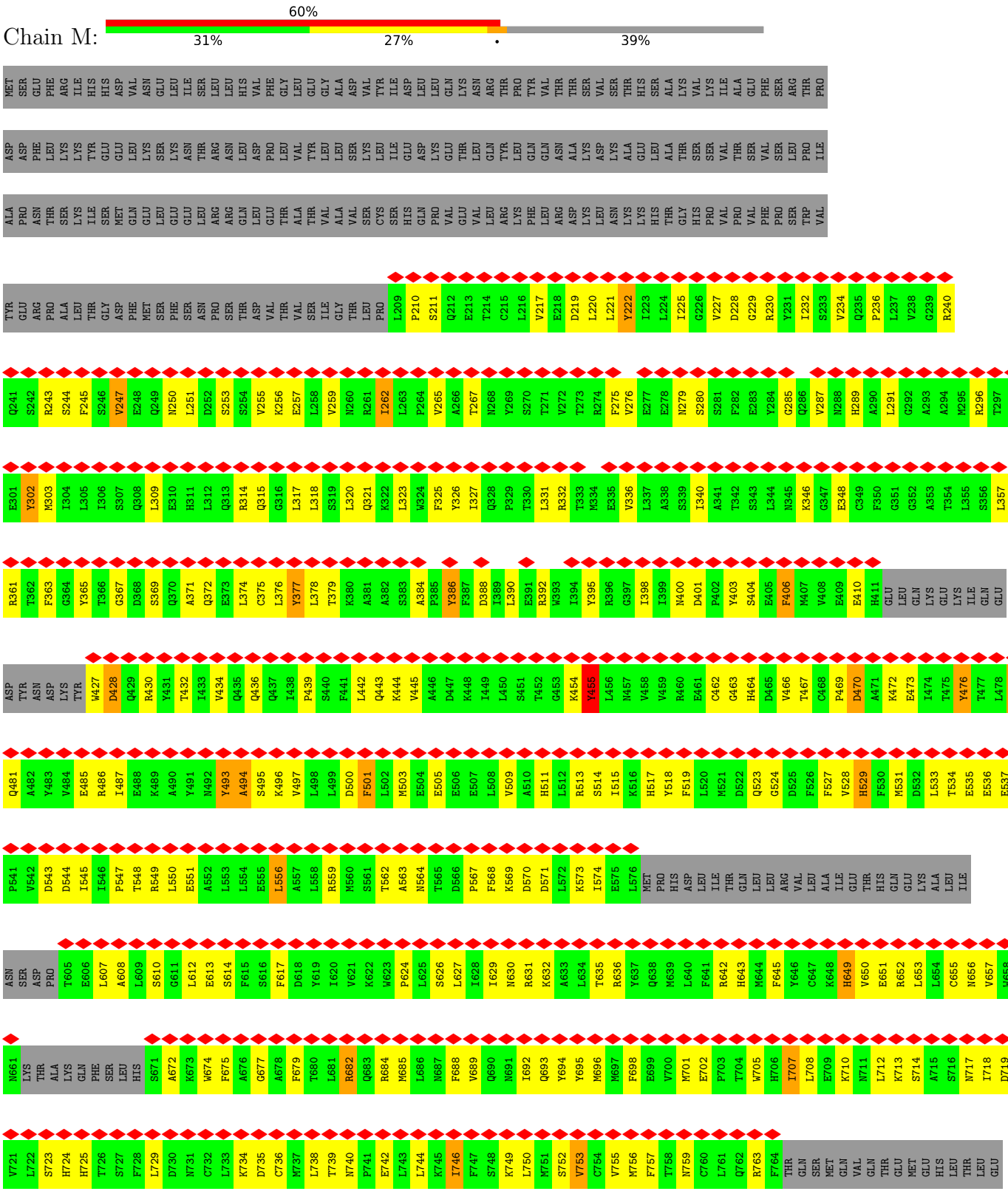
• Molecule 1: Gamma-tubulin complex component

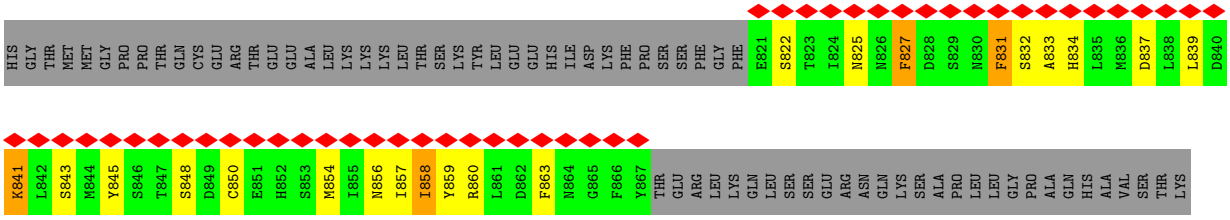
Chain G:





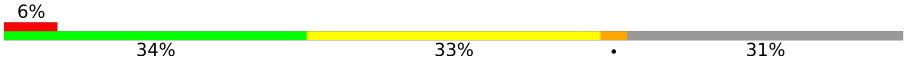
• Molecule 1: Gamma-tubulin complex component

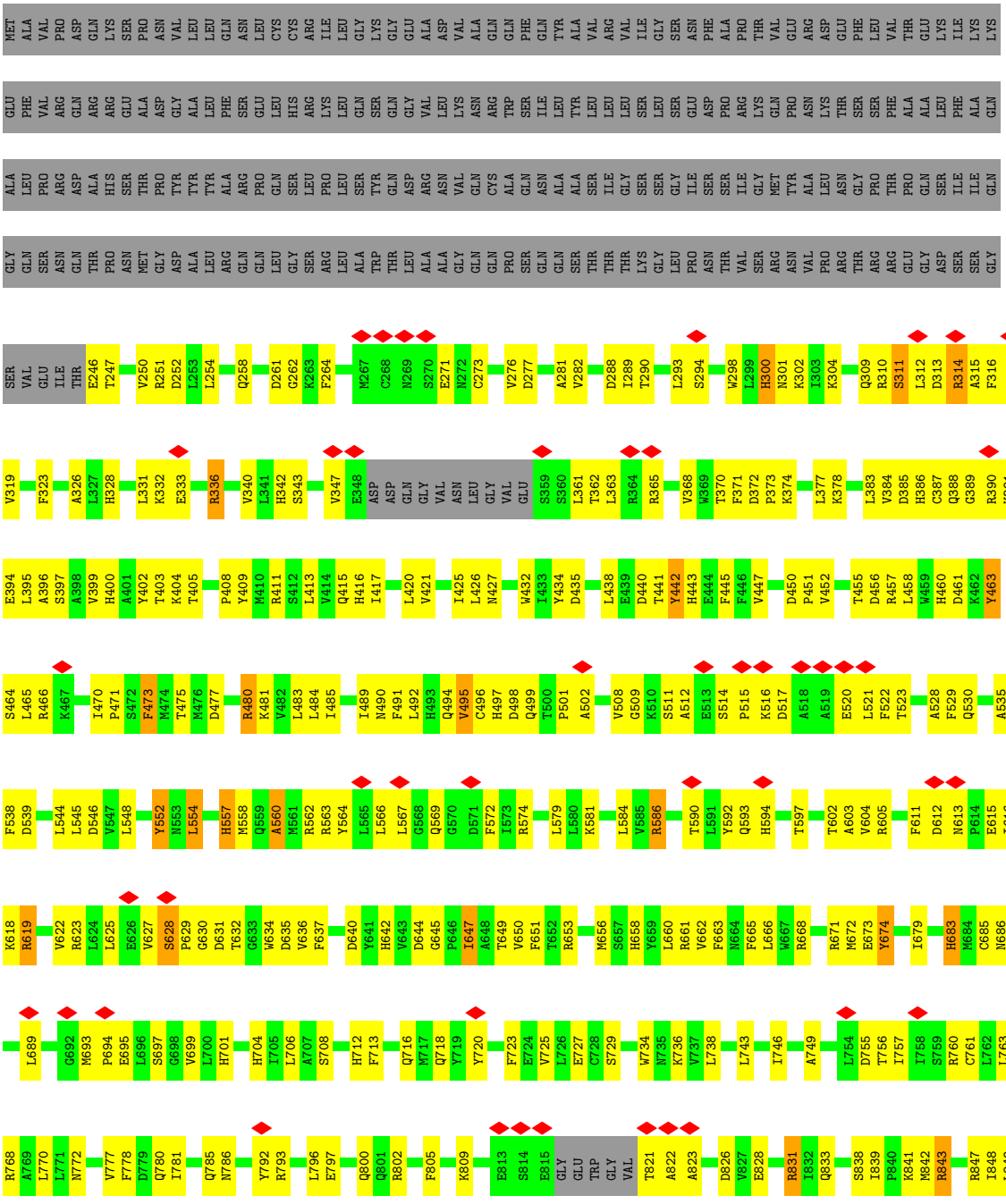


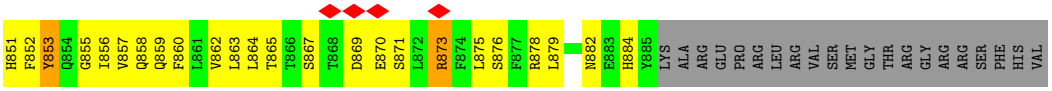


• Molecule 2: Gamma-tubulin complex component 3 homolog

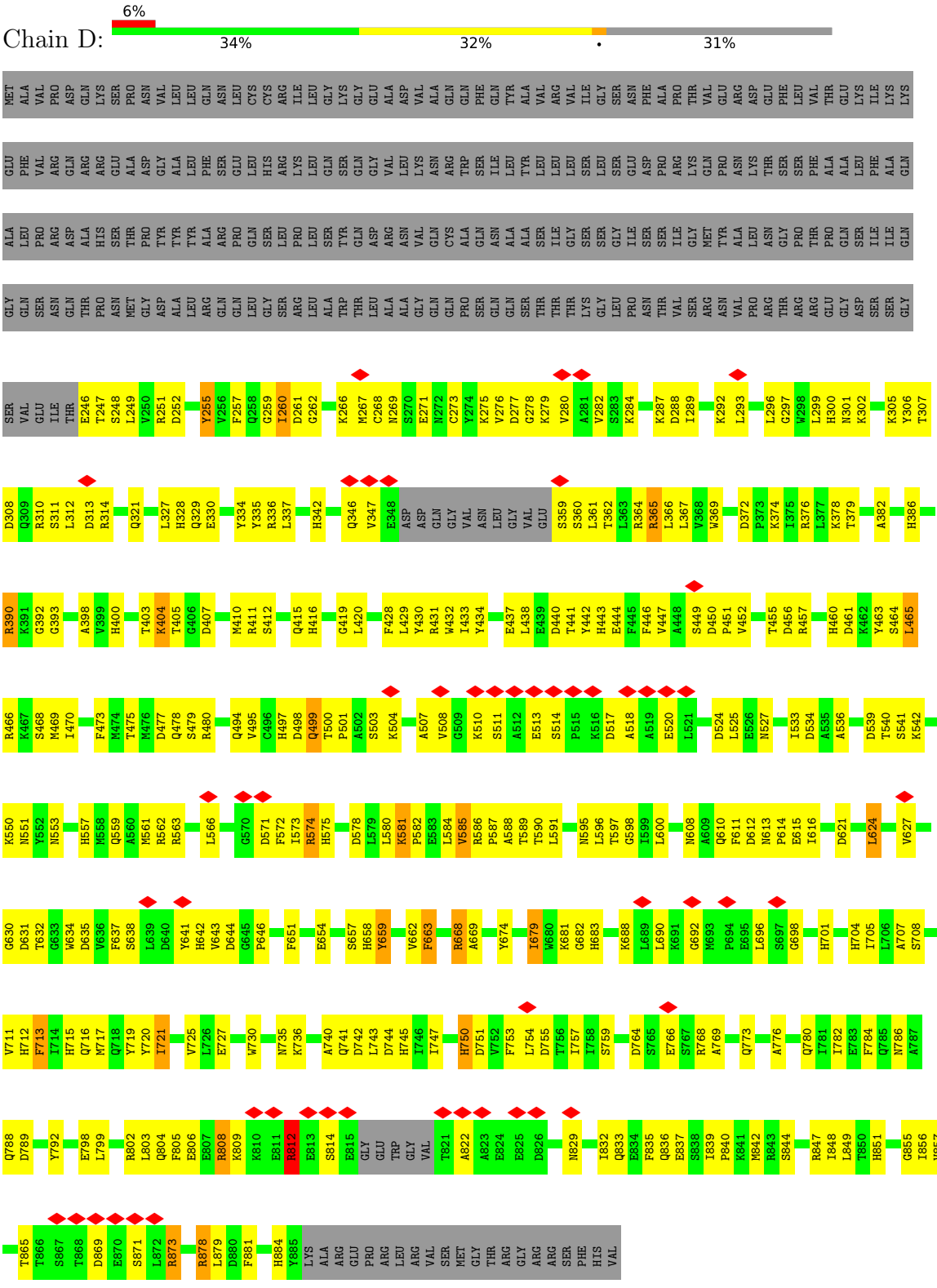
Chain B:





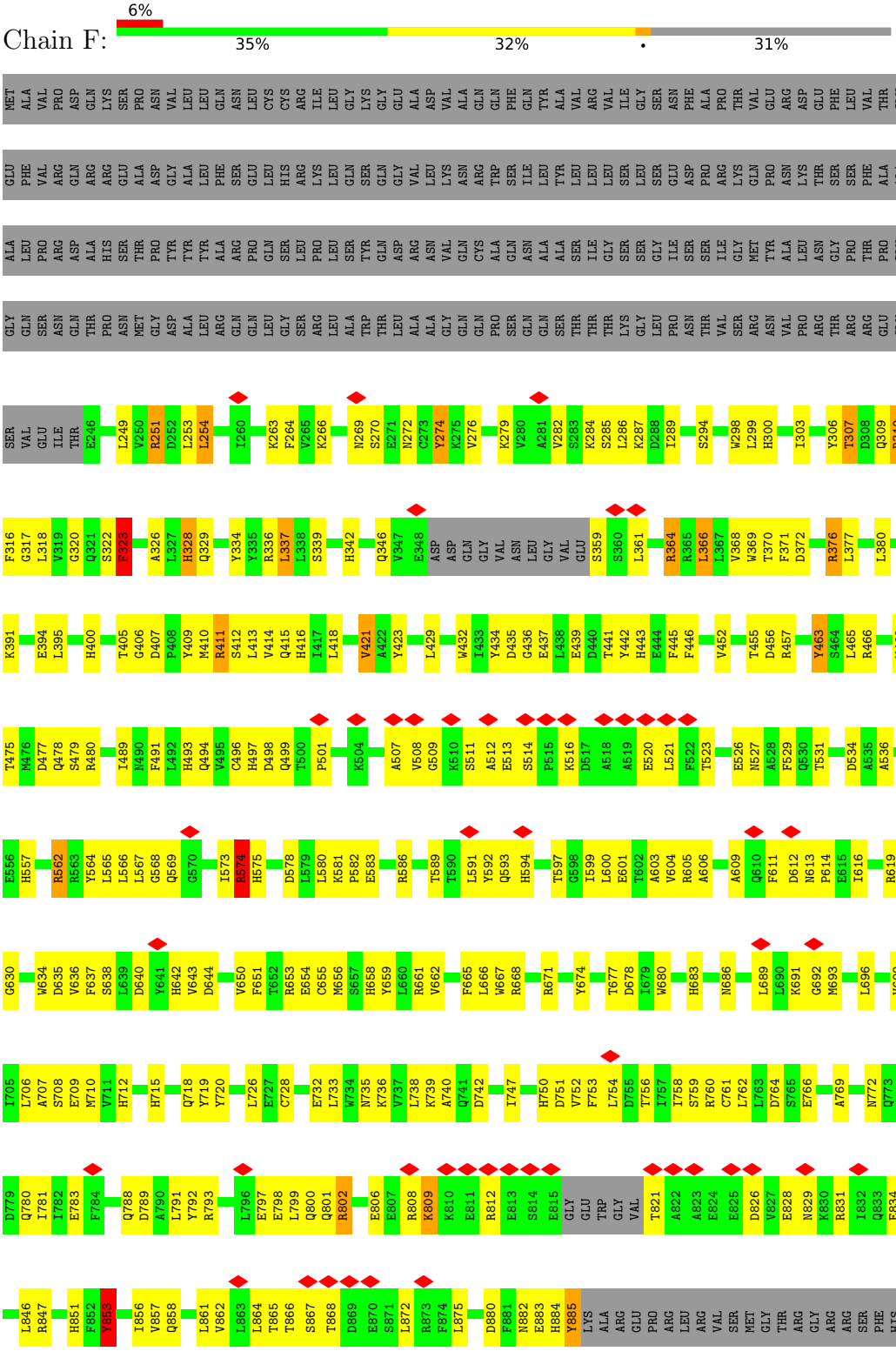


• Molecule 2: Gamma-tubulin complex component 3 homolog



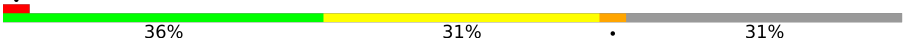
• Molecule 2: Gamma-tubulin complex component 3 homolog

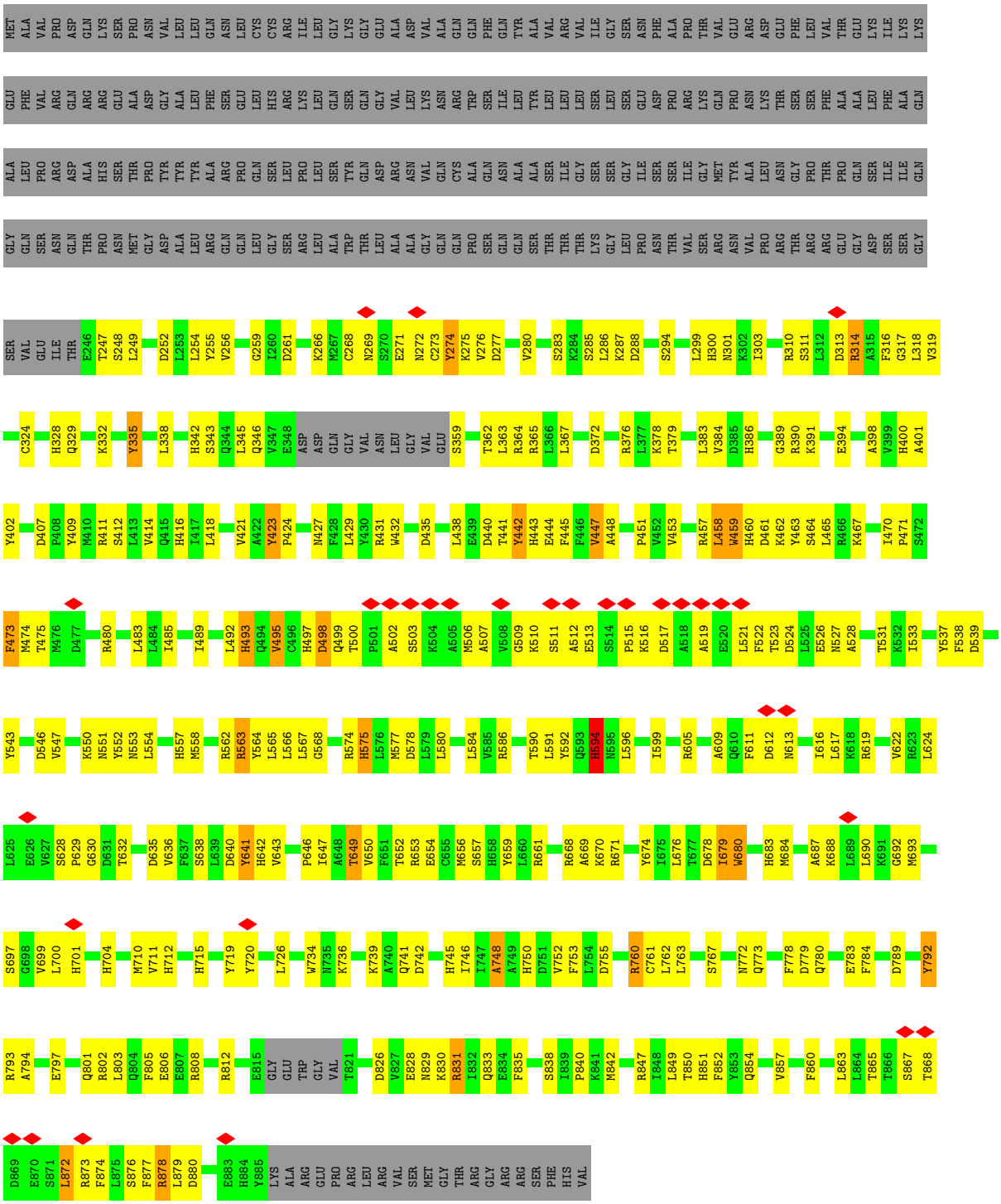
Chain F:



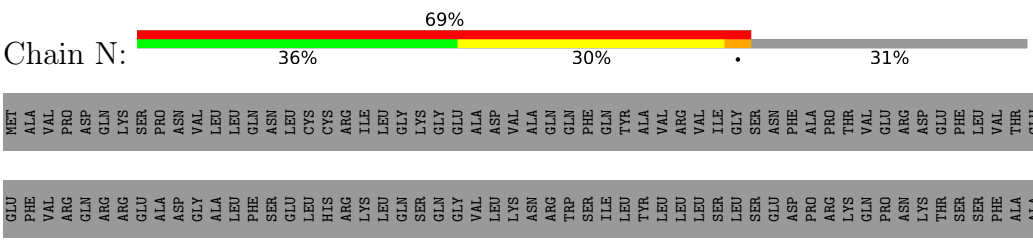
• Molecule 2: Gamma-tubulin complex component 3 homolog

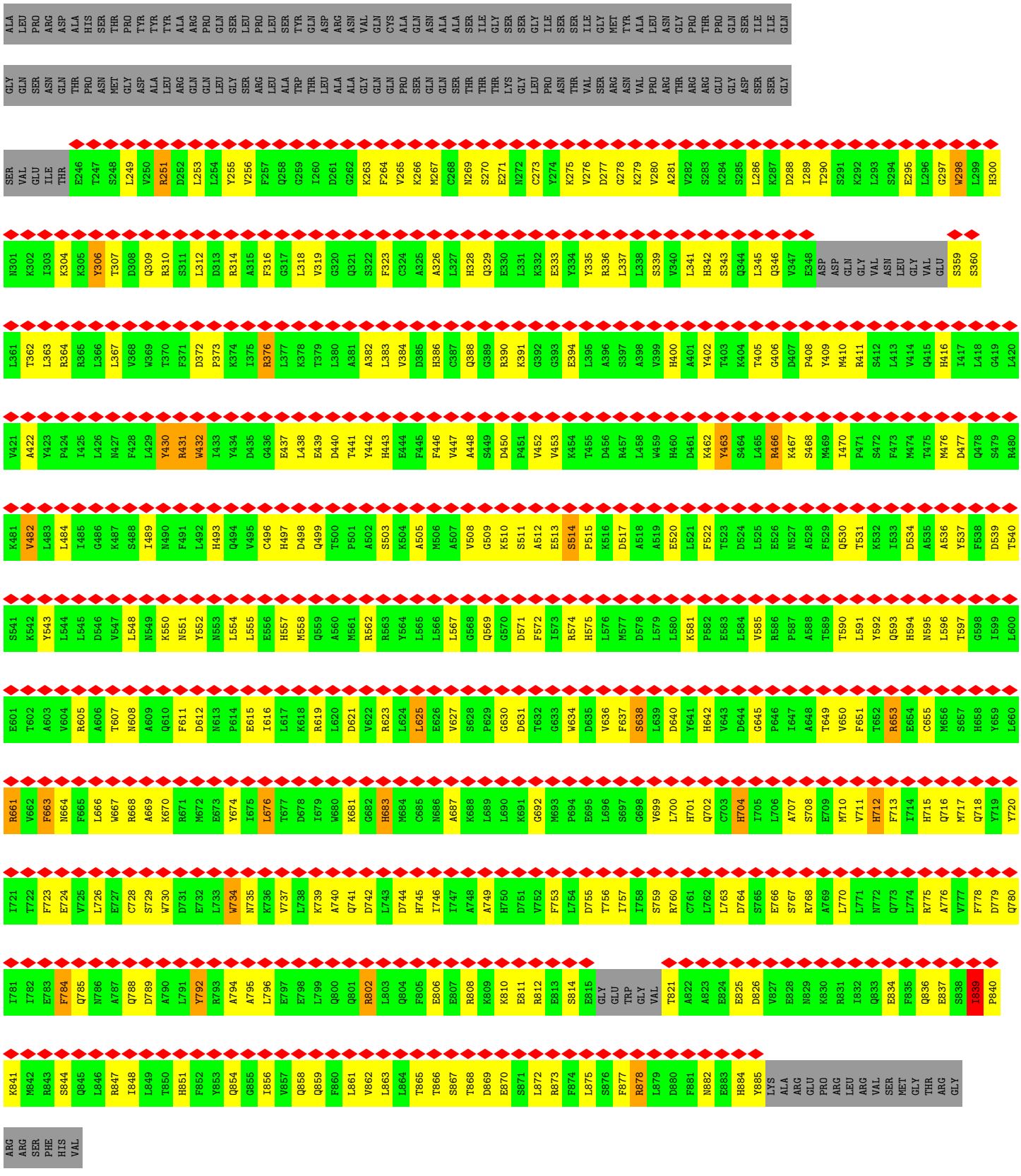
Chain H:





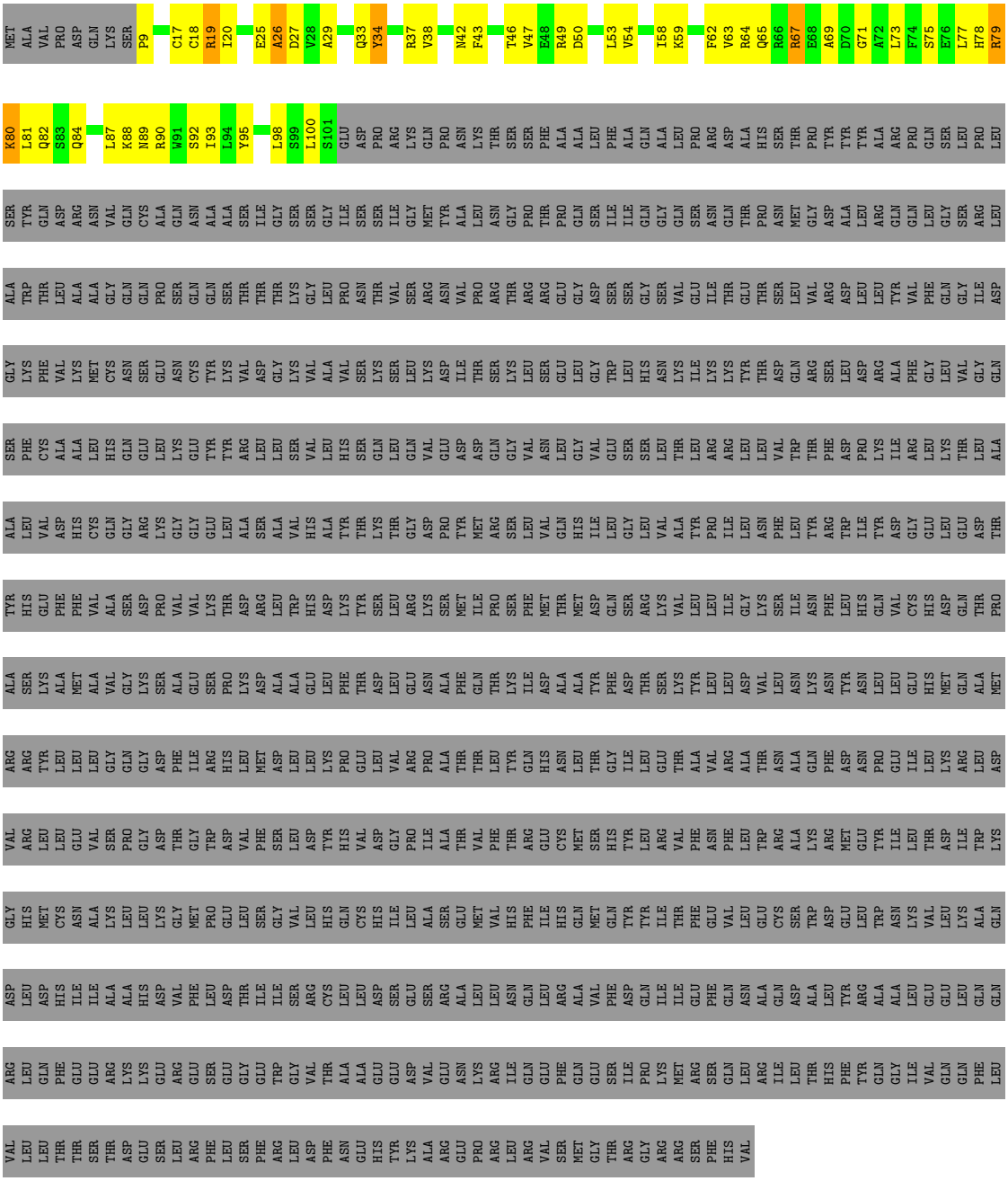
• Molecule 2: Gamma-tubulin complex component 3 homolog





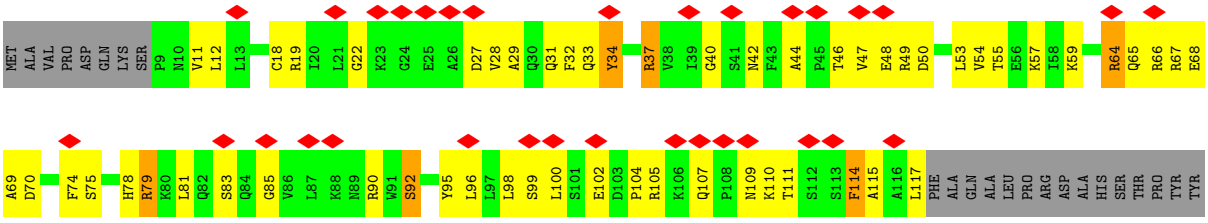
• Molecule 2: Gamma-tubulin complex component 3 homolog

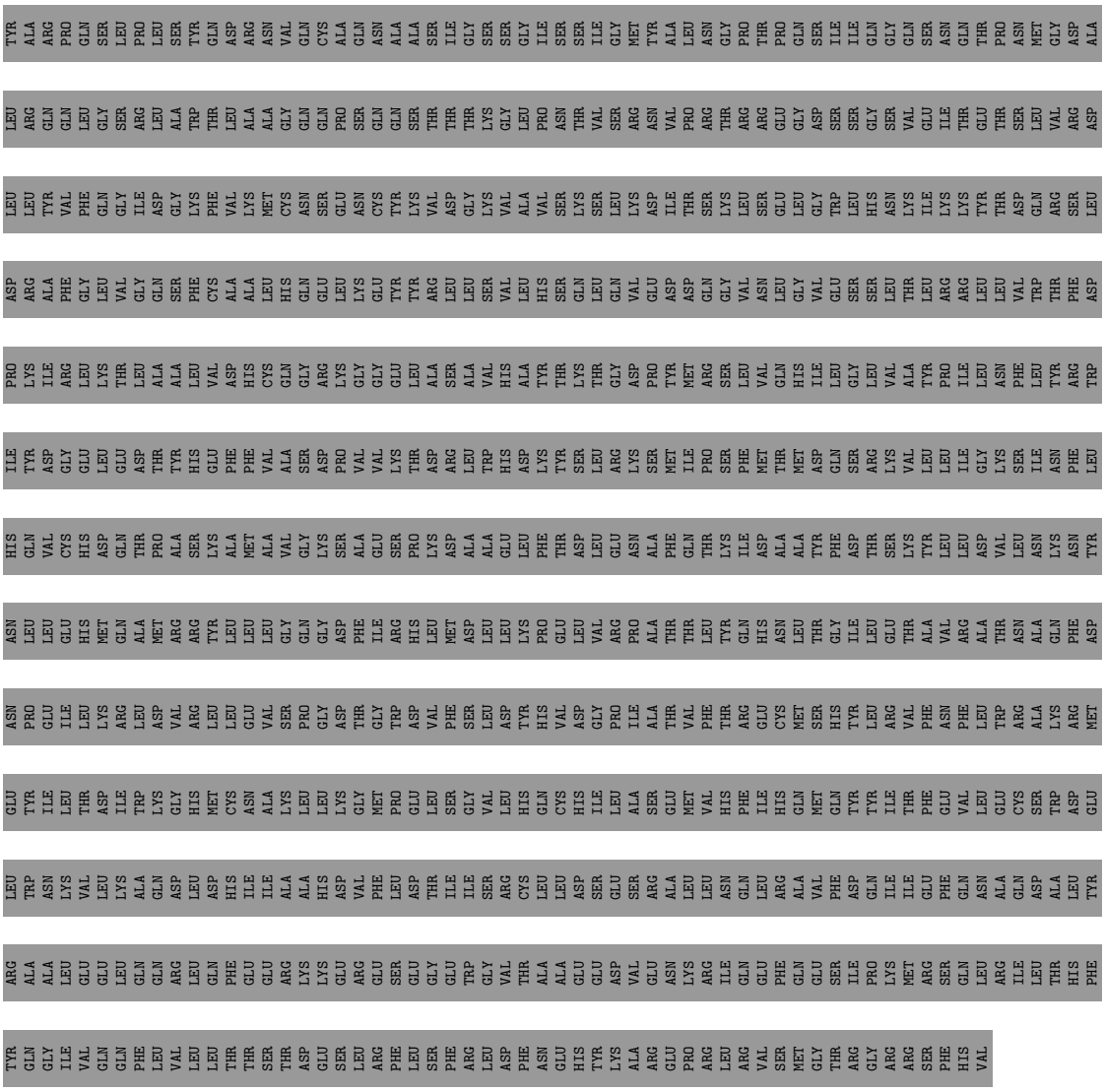
Chain O: 5% 5% • 90%



• Molecule 2: Gamma-tubulin complex component 3 homolog

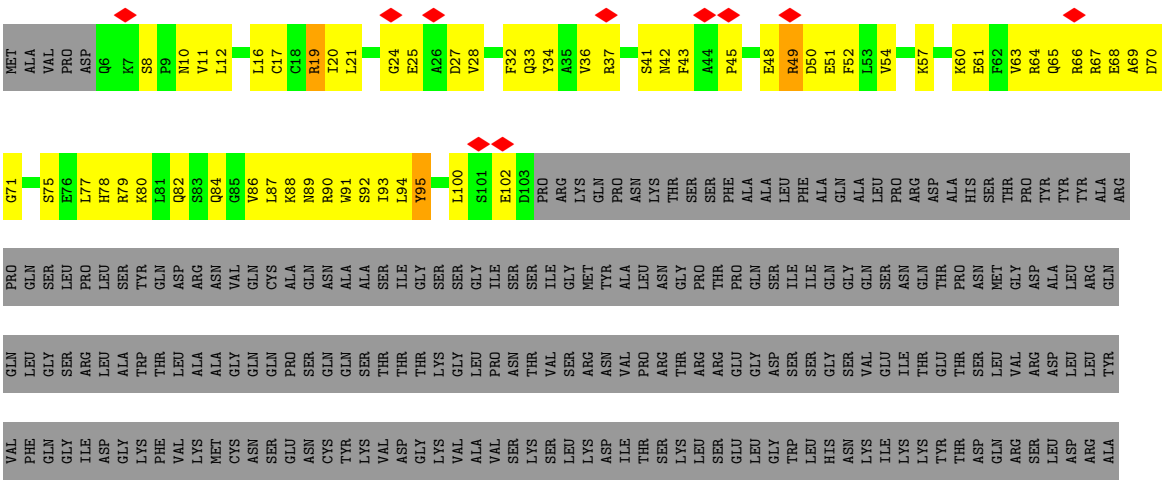
Chain Q:

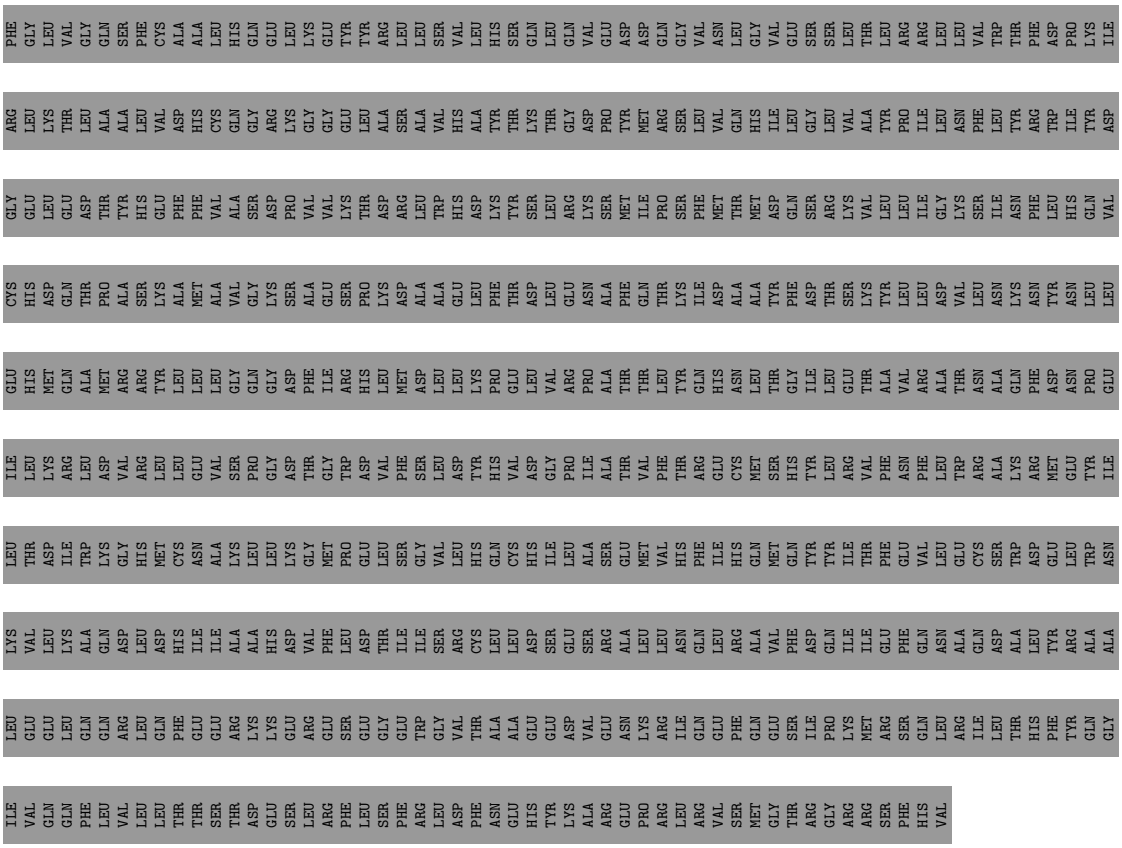




• Molecule 2: Gamma-tubulin complex component 3 homolog

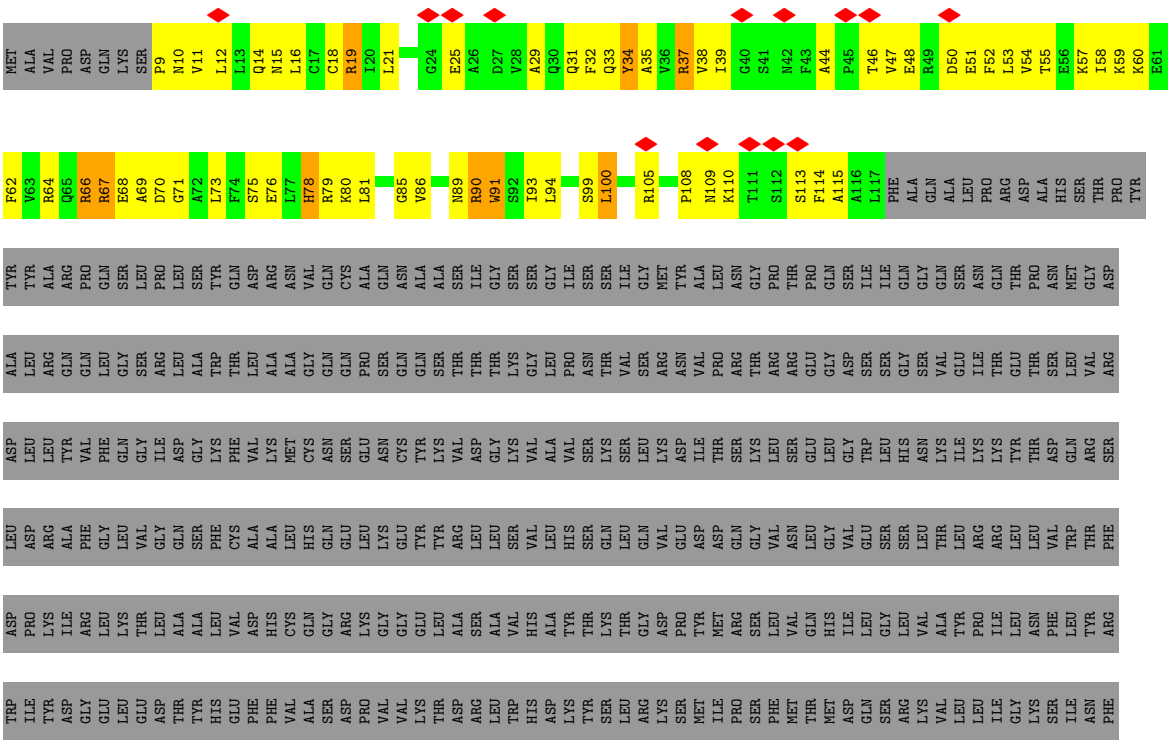
Chain R:

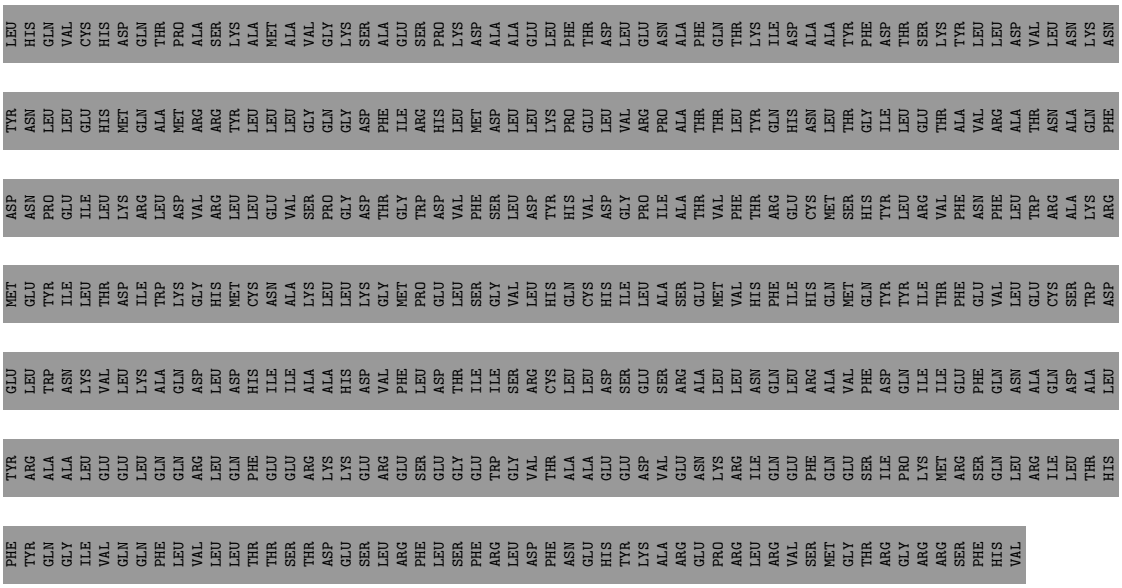




• Molecule 2: Gamma-tubulin complex component 3 homolog

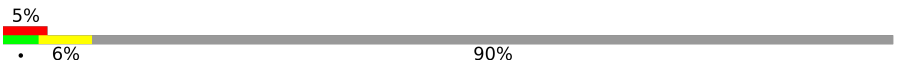
Chain S: 5% 6% 88%

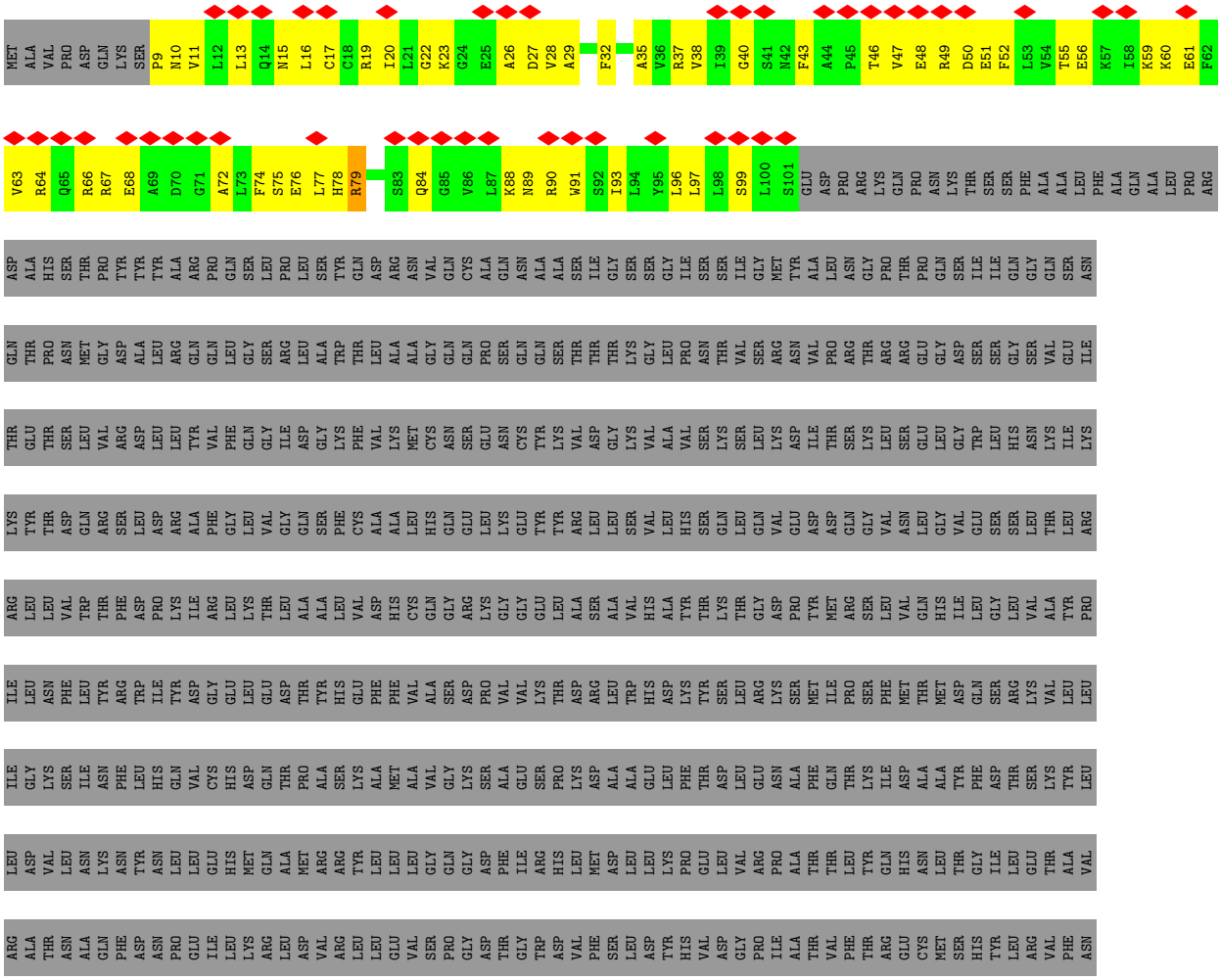


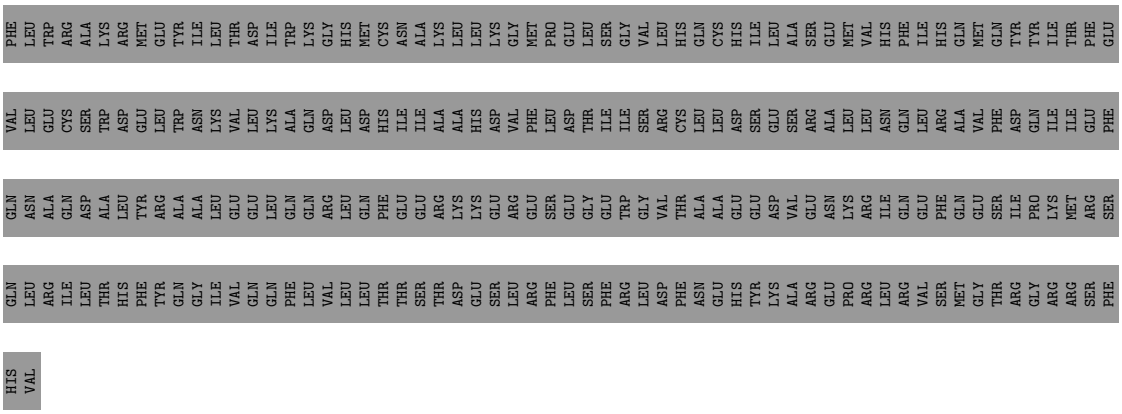


• Molecule 2: Gamma-tubulin complex component 3 homolog

Chain T:

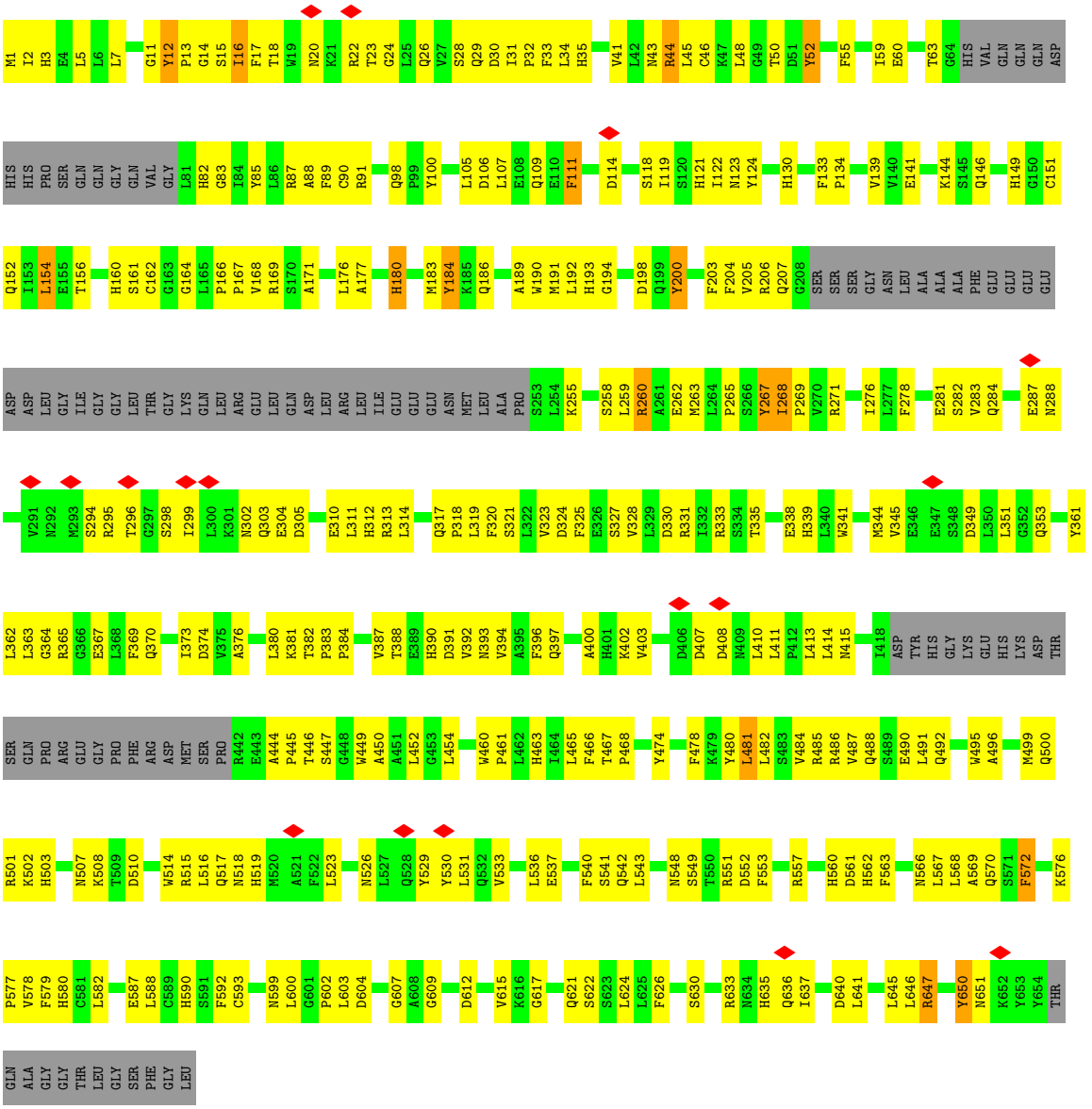






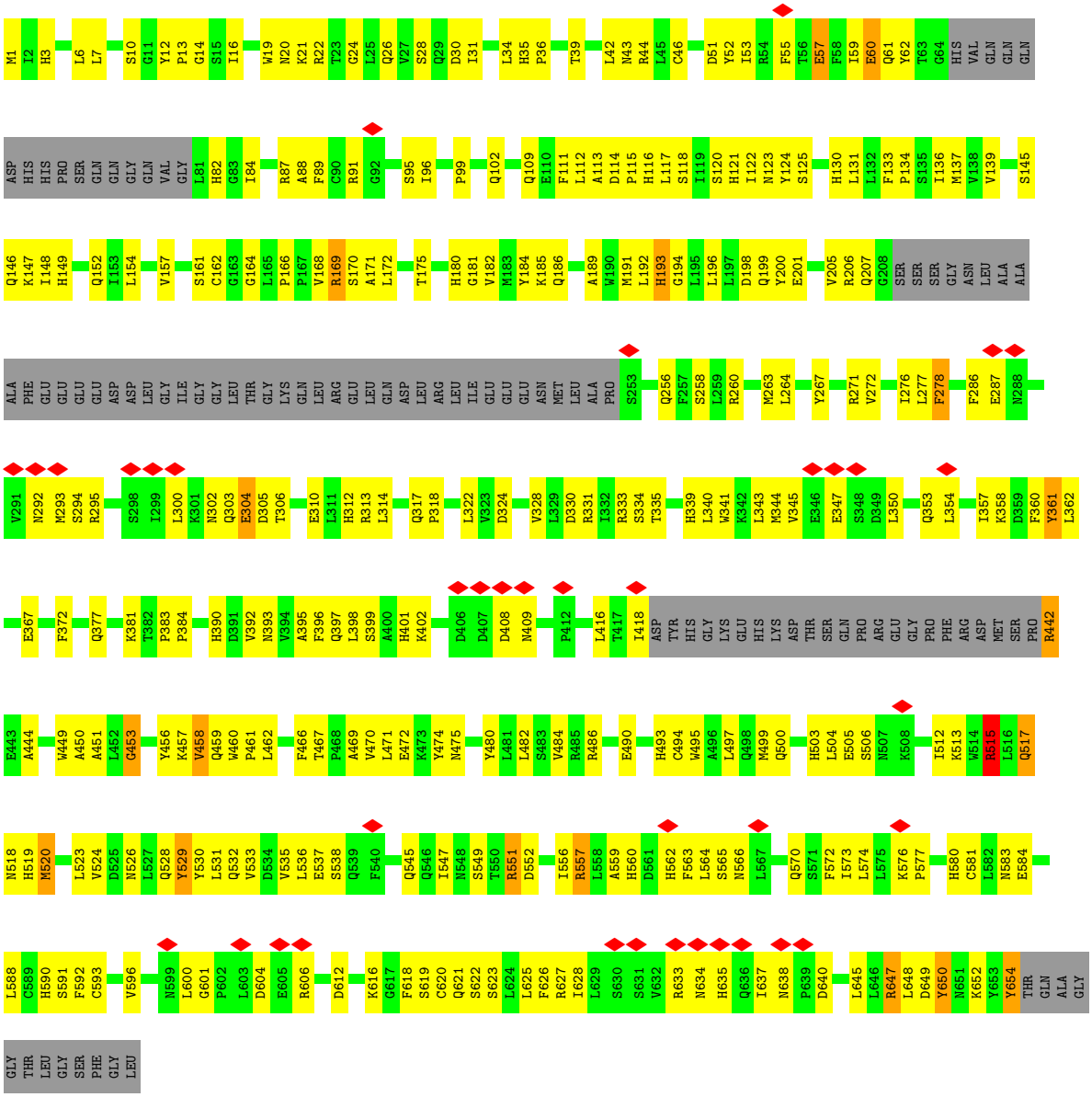
• Molecule 3: Gamma-tubulin complex component

Chain I:



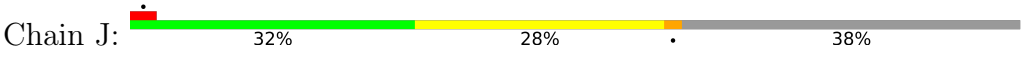
• Molecule 3: Gamma-tubulin complex component

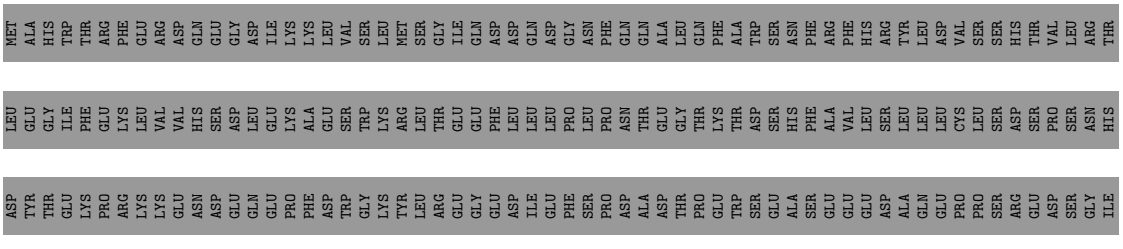
Chain K:

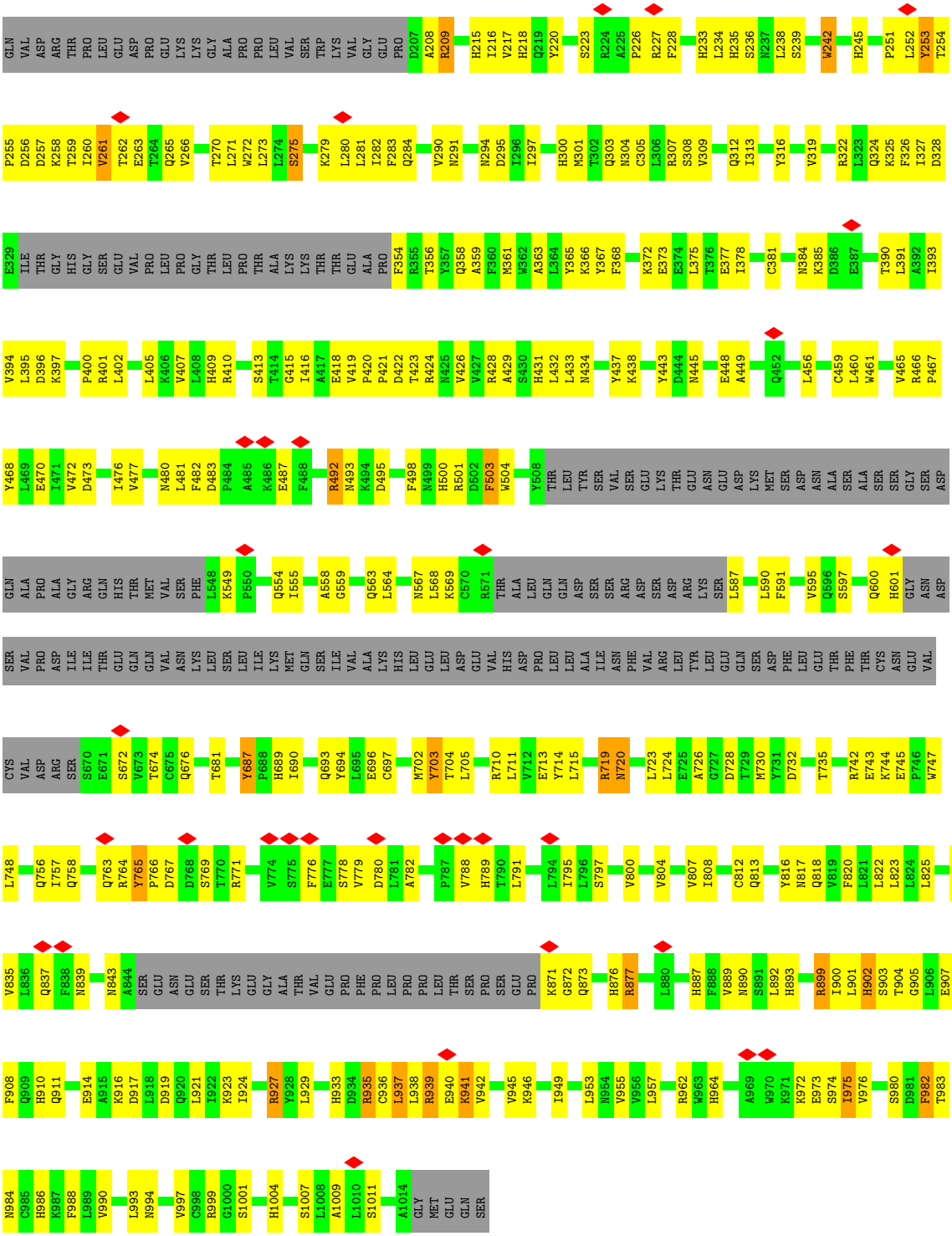


• Molecule 4: Gamma-tubulin complex component

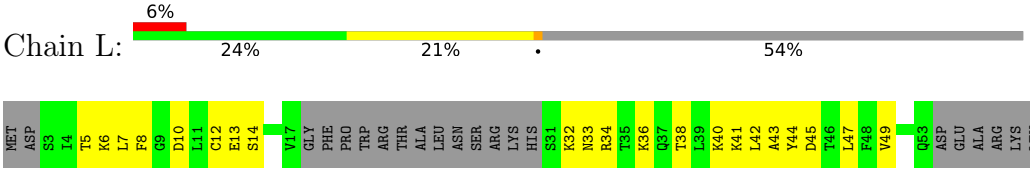
Chain J:

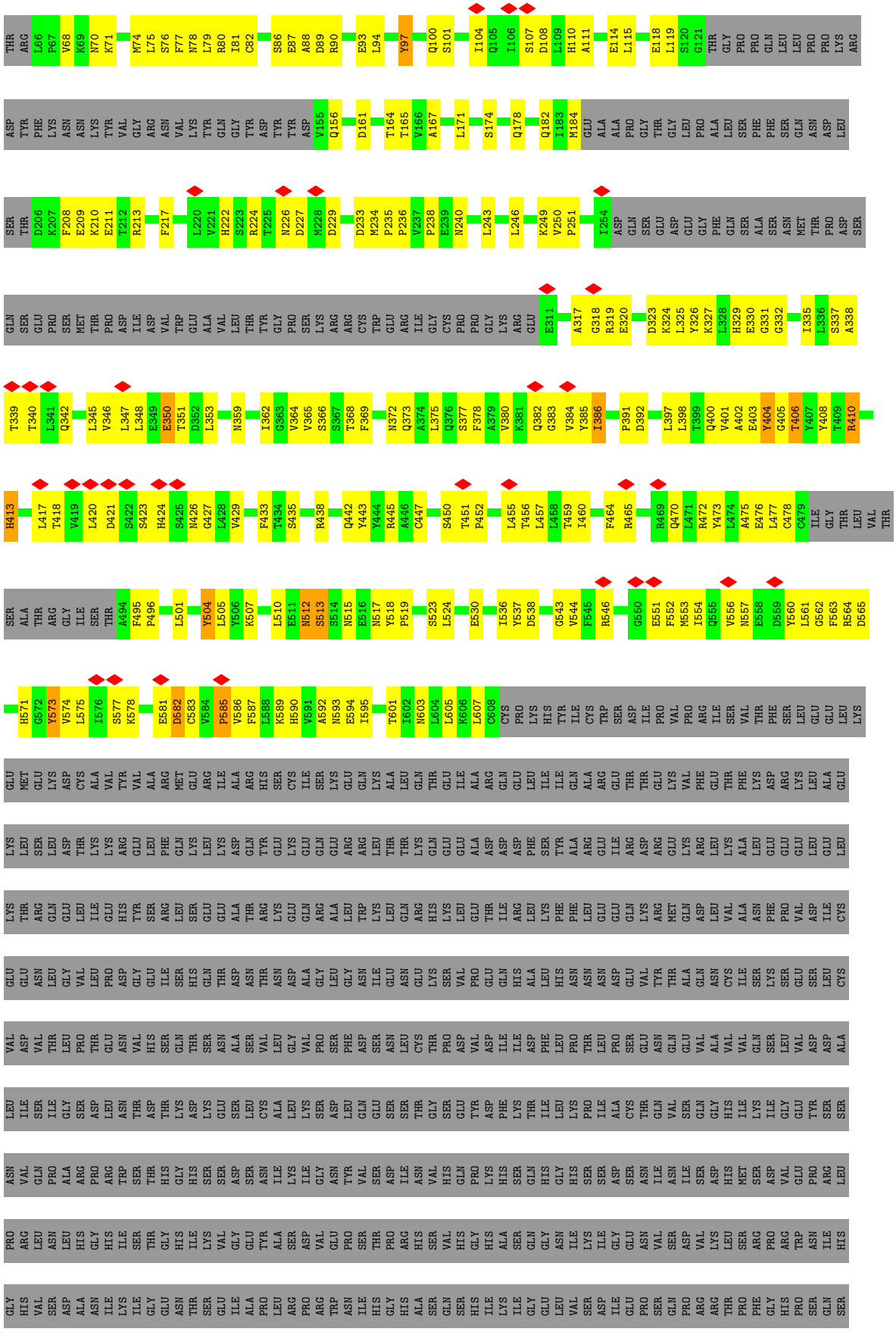


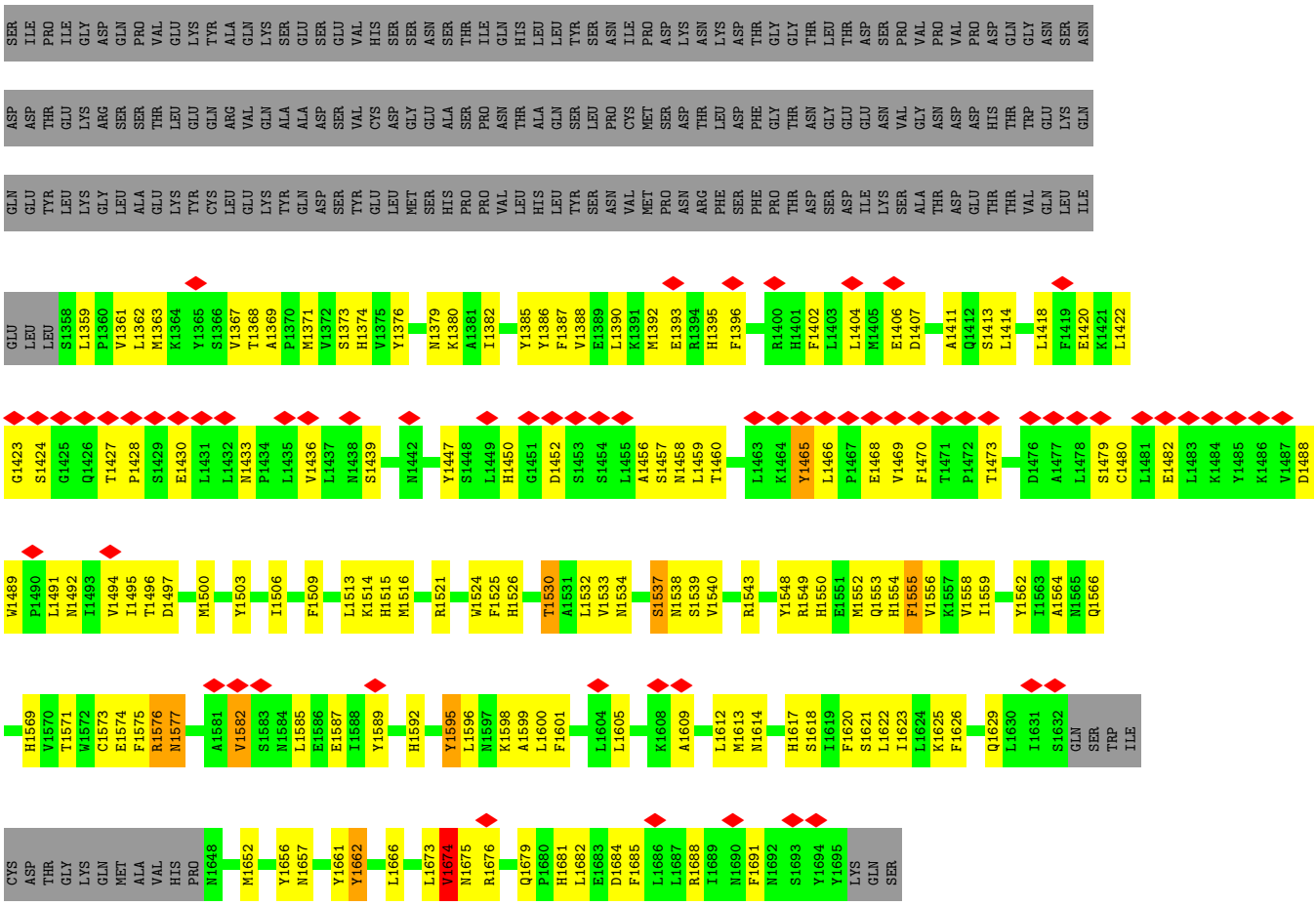




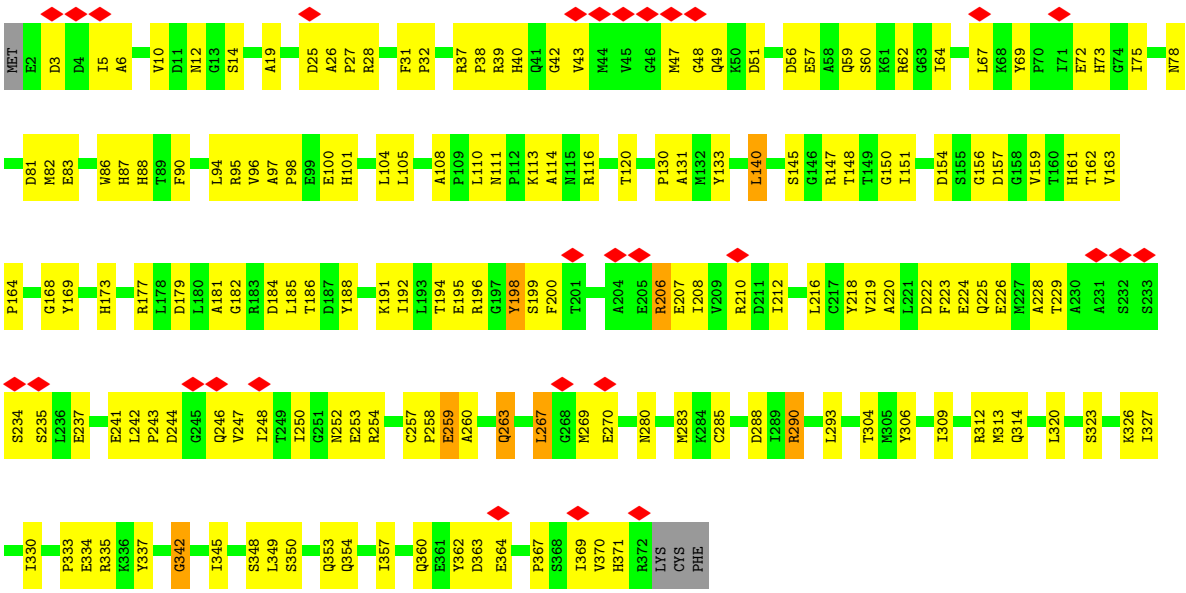
• Molecule 5: Gamma-tubulin complex component 6





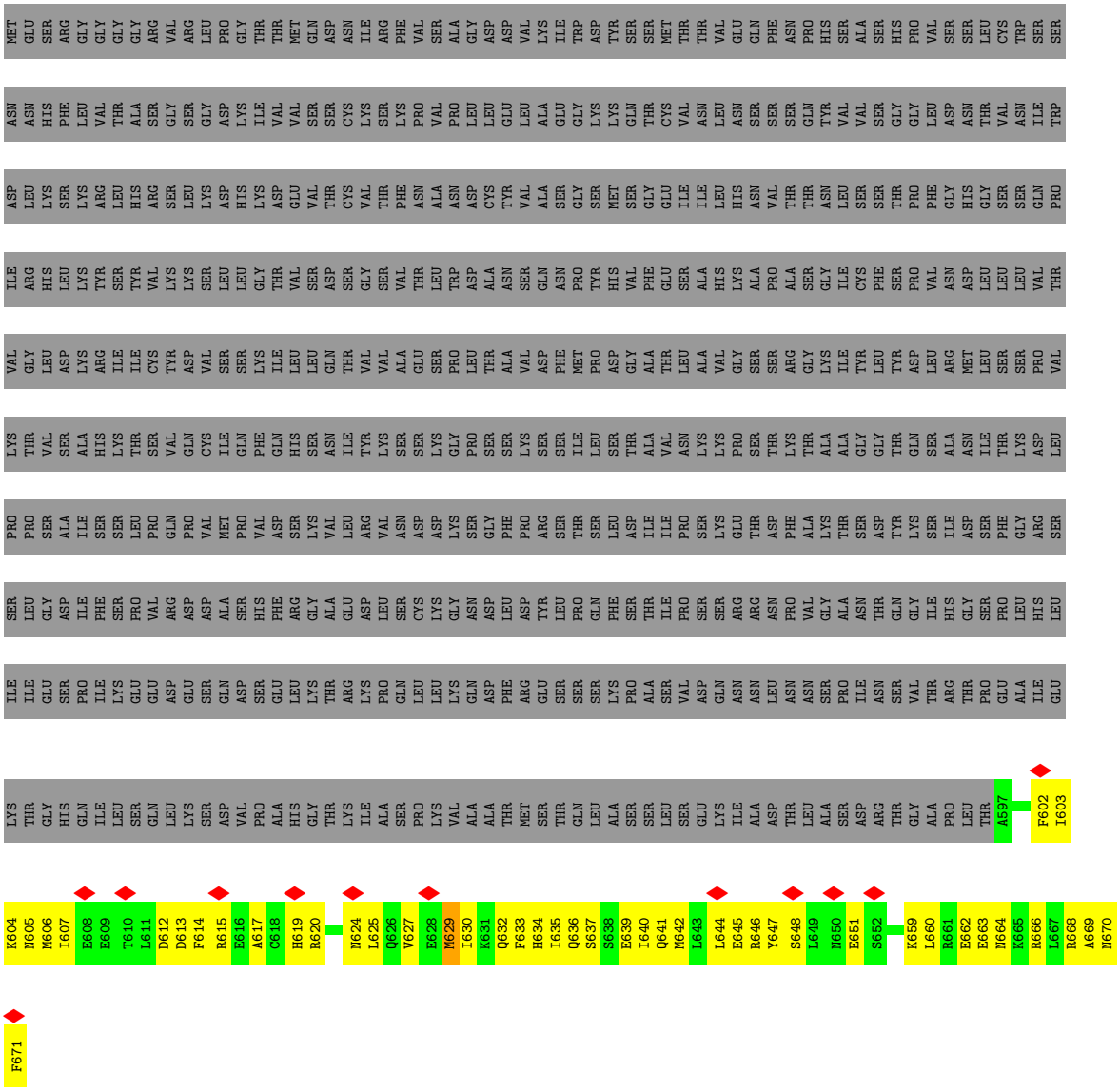


• Molecule 6: Actin, cytoplasmic 1



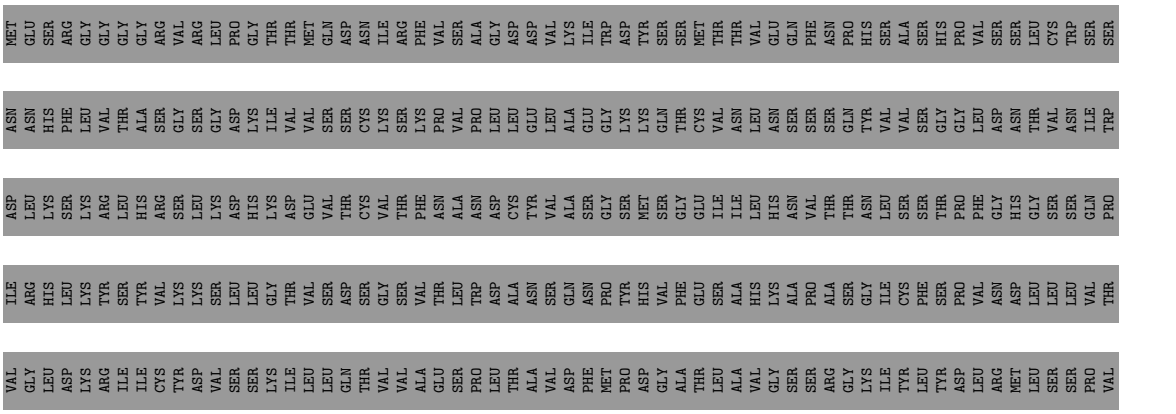
• Molecule 7: NEDD1 gamma-tubulin ring complex targeting factor L homeolog

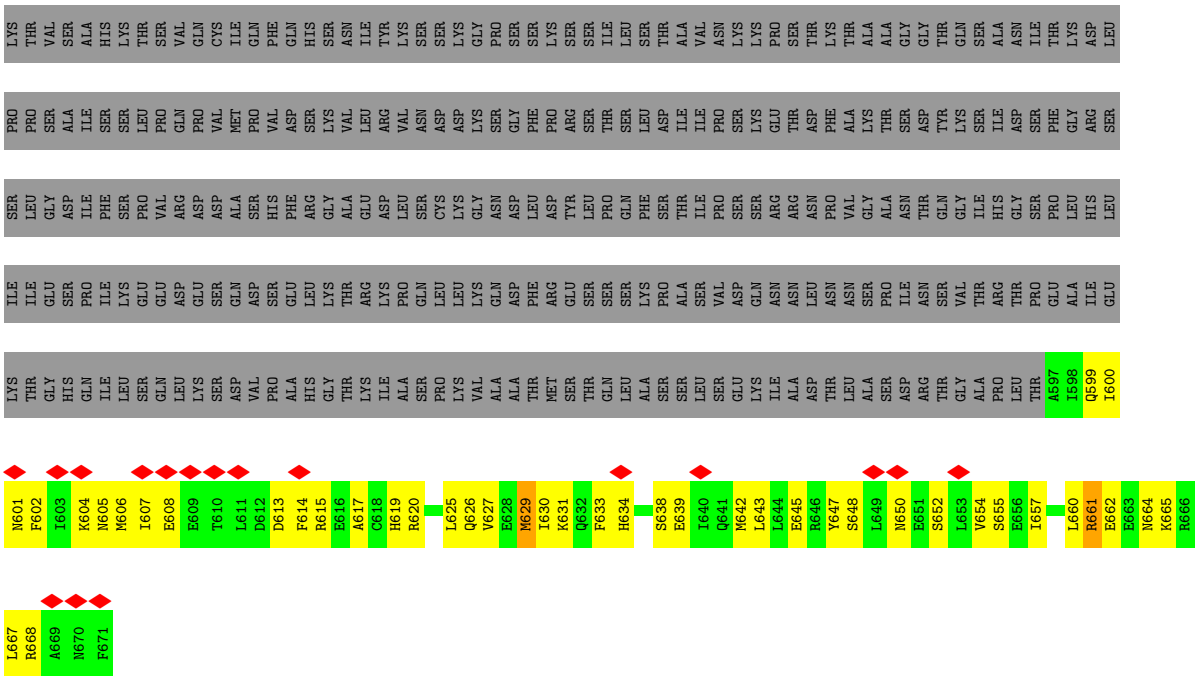
Chain U: 5% 6% 89%



• Molecule 7: NEDD1 gamma-tubulin ring complex targeting factor L homeolog

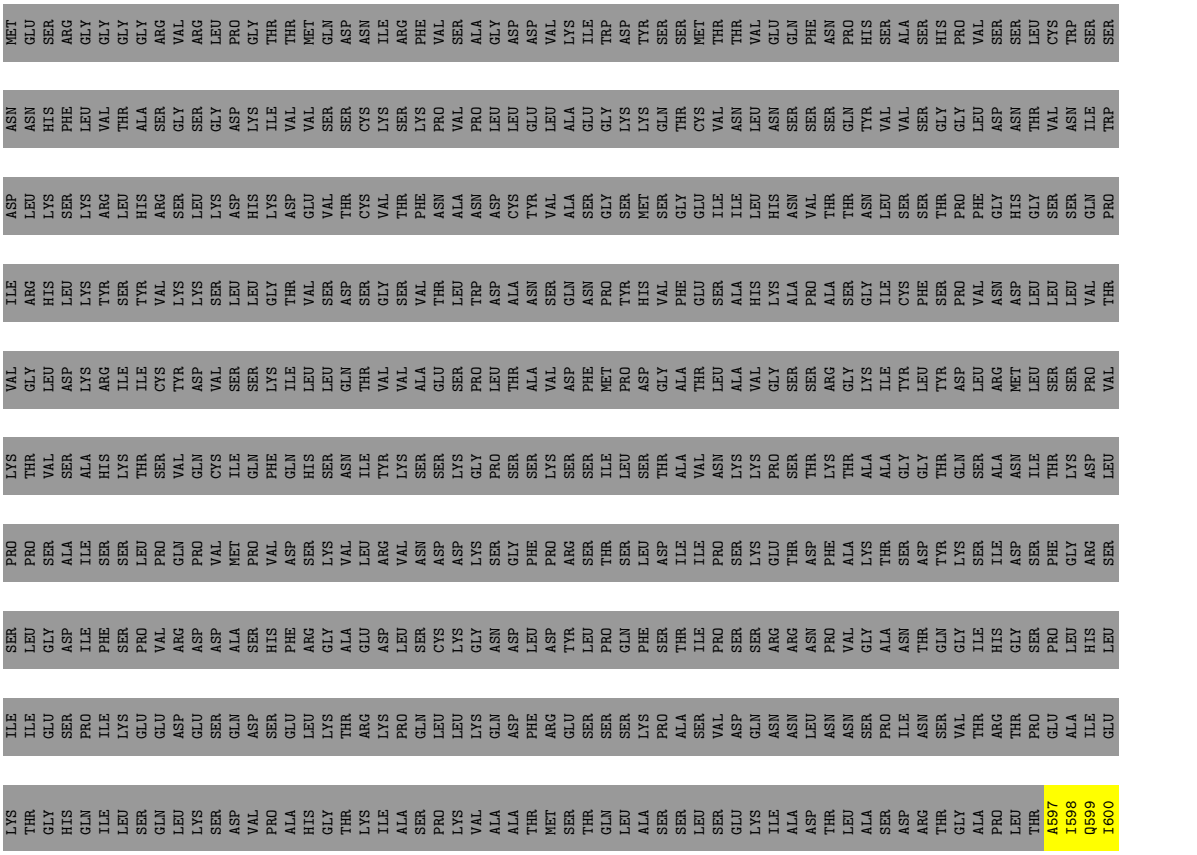
Chain V: 5% 6% 89%

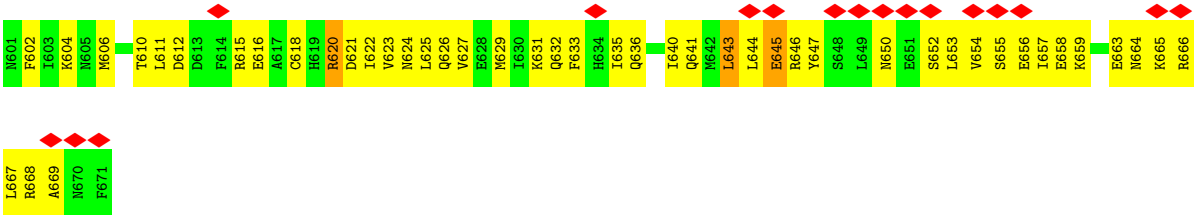




• Molecule 7: NEDD1 gamma-tubulin ring complex targeting factor L homeolog

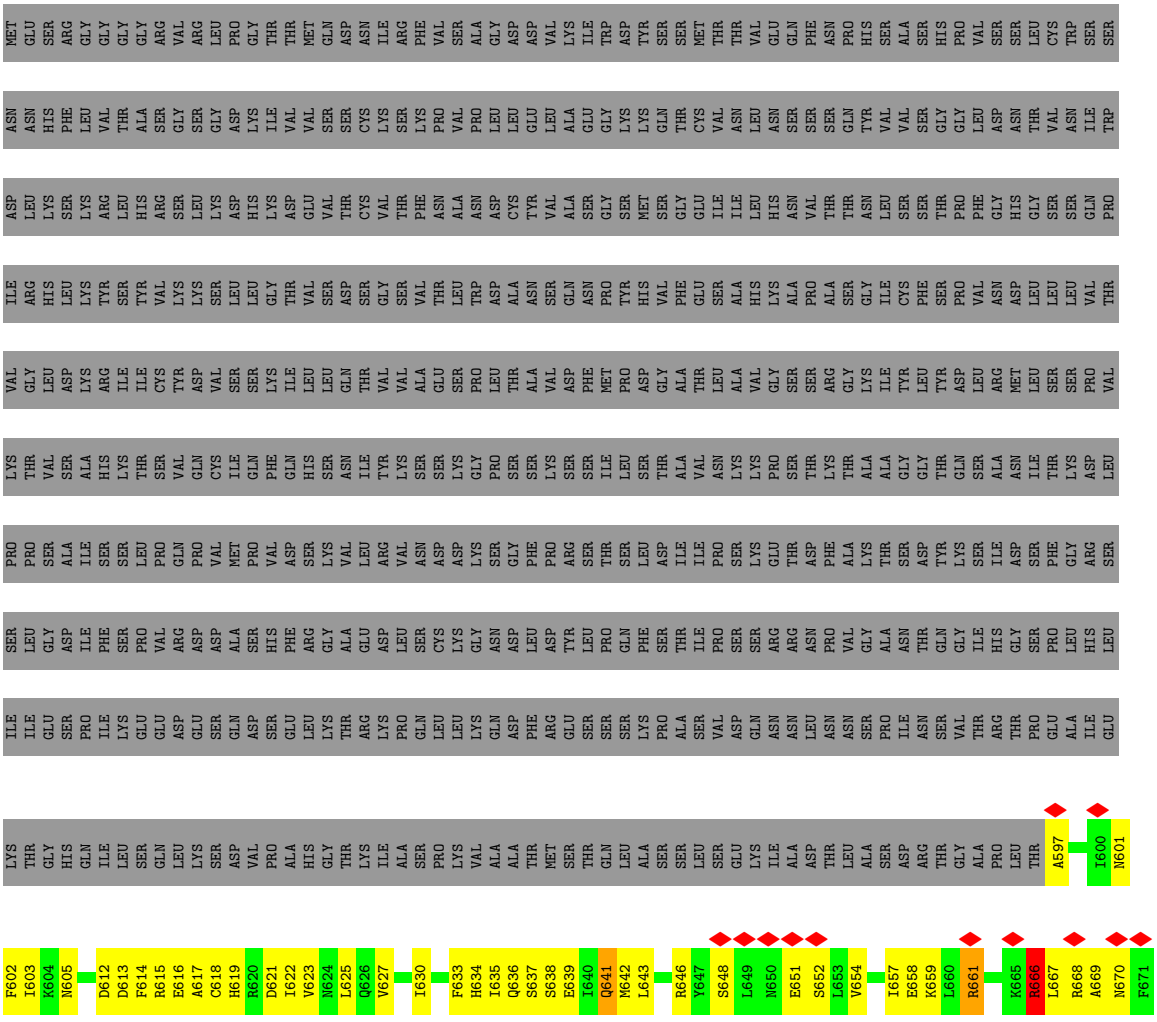
Chain W:





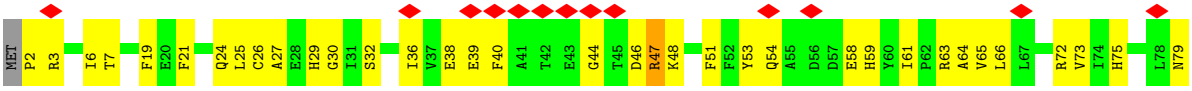
• Molecule 7: NEDD1 gamma-tubulin ring complex targeting factor L homeolog

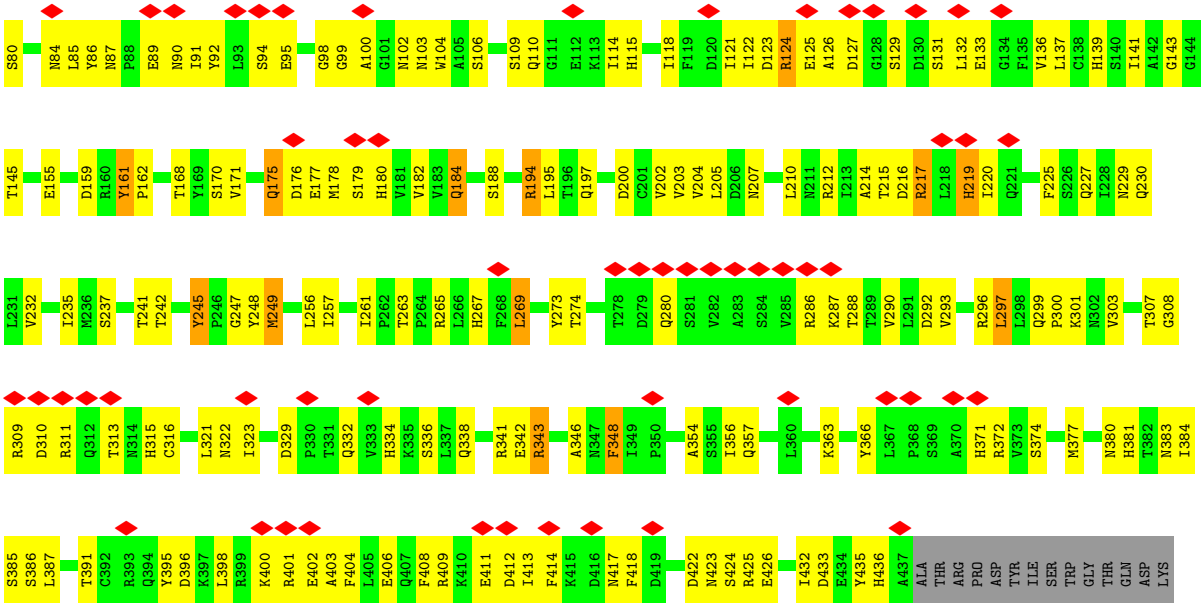
Chain X:



• Molecule 8: Tubulin gamma-1 chain

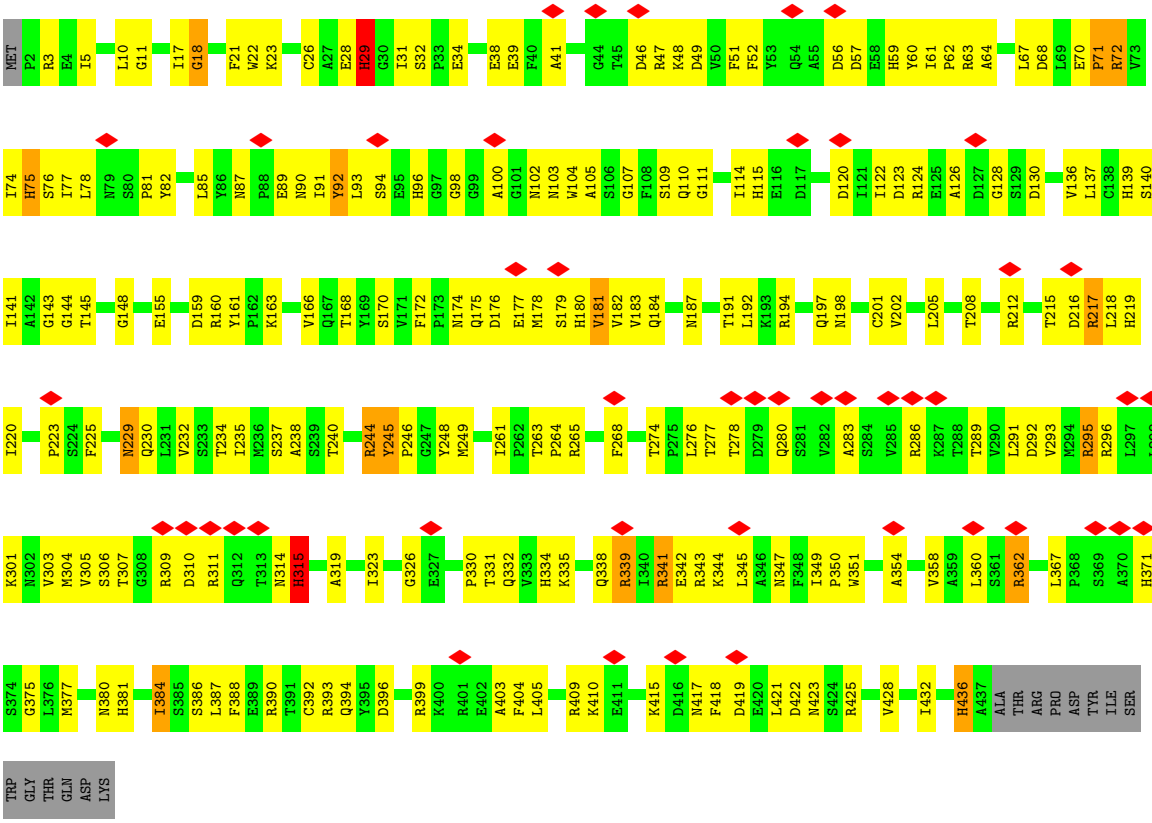
Chain a:





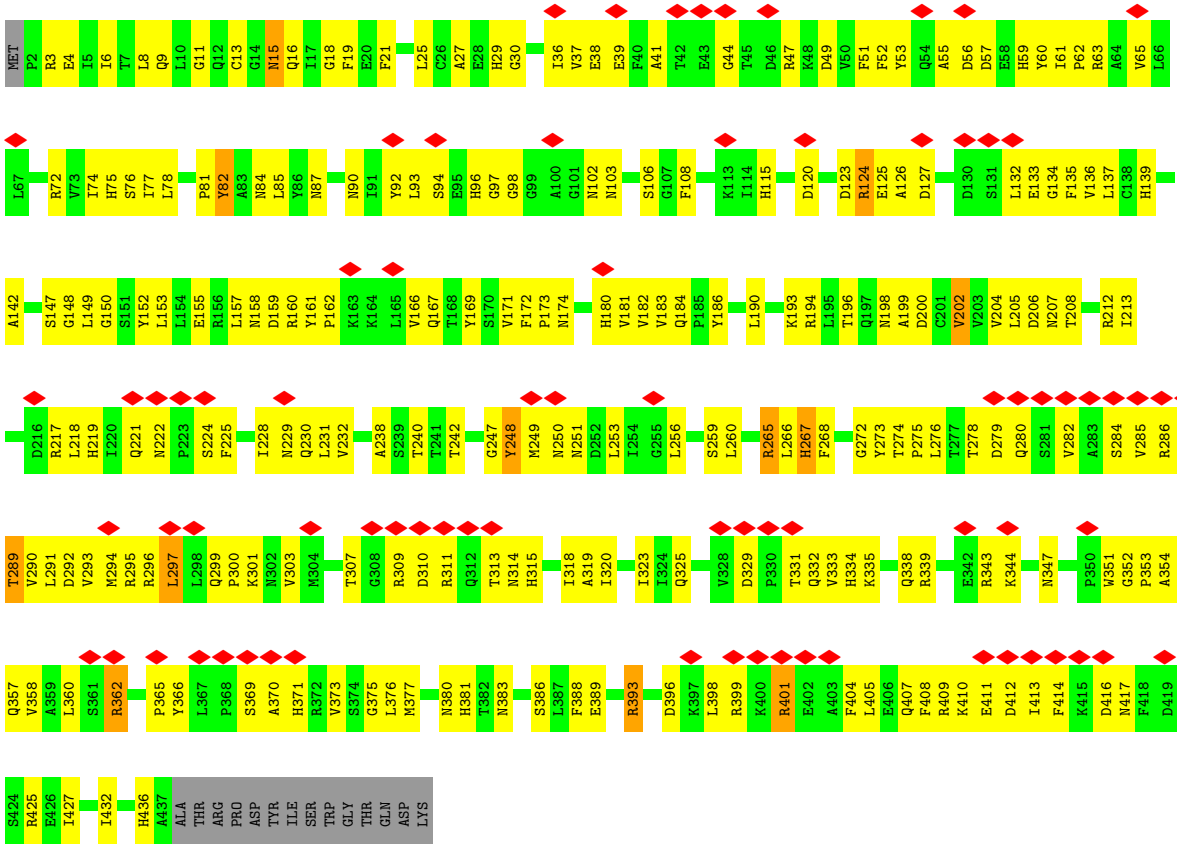
• Molecule 8: Tubulin gamma-1 chain

Chain b:



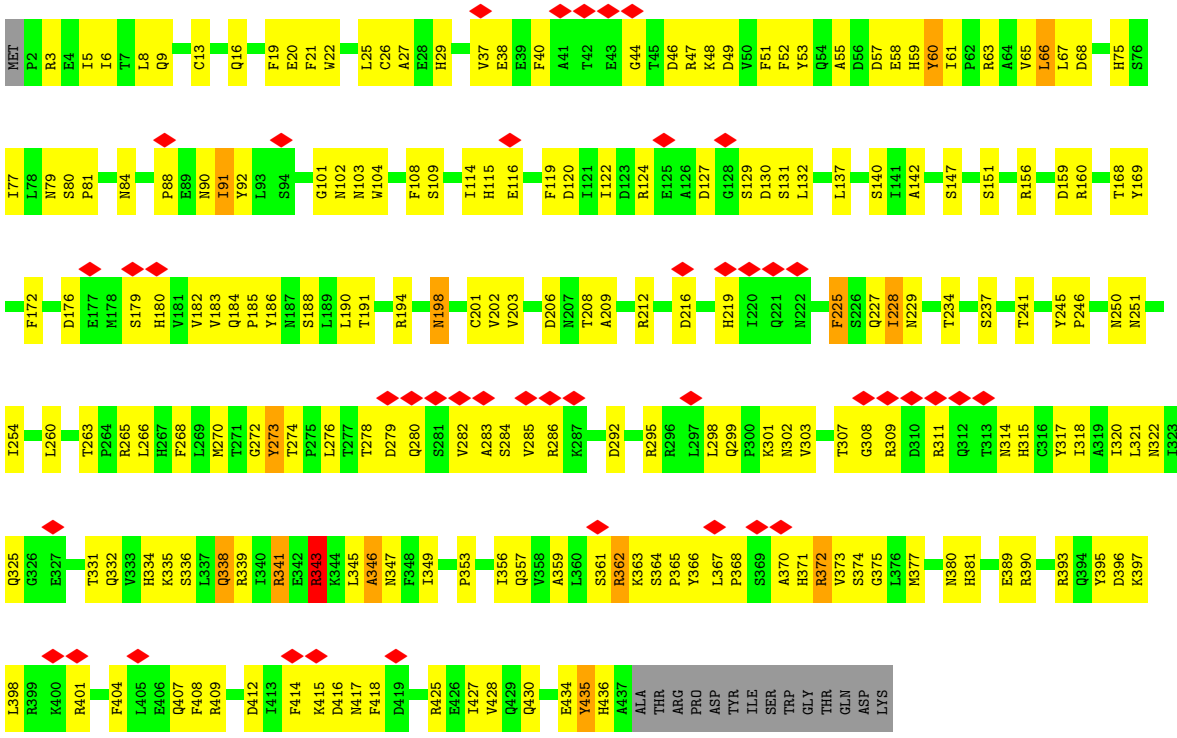
• Molecule 8: Tubulin gamma-1 chain

Chain c:



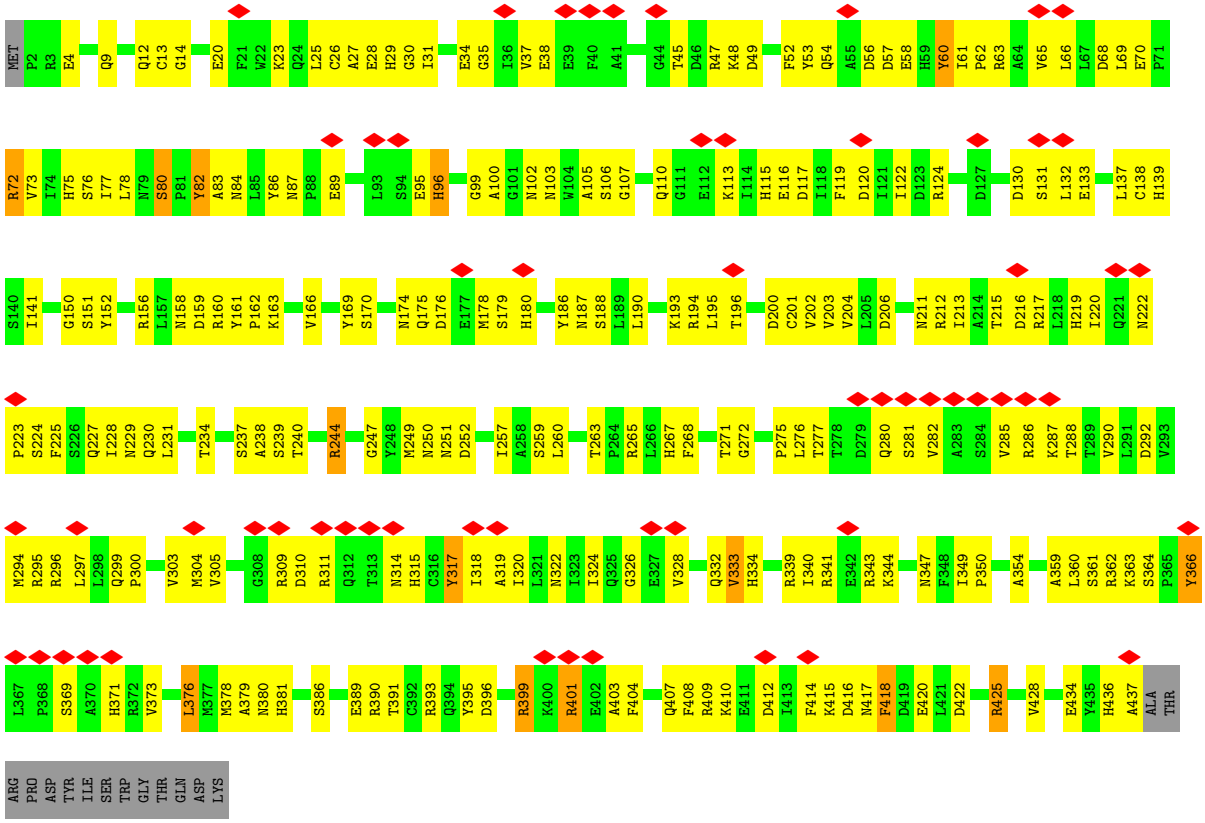
• Molecule 8: Tubulin gamma-1 chain

Chain d:



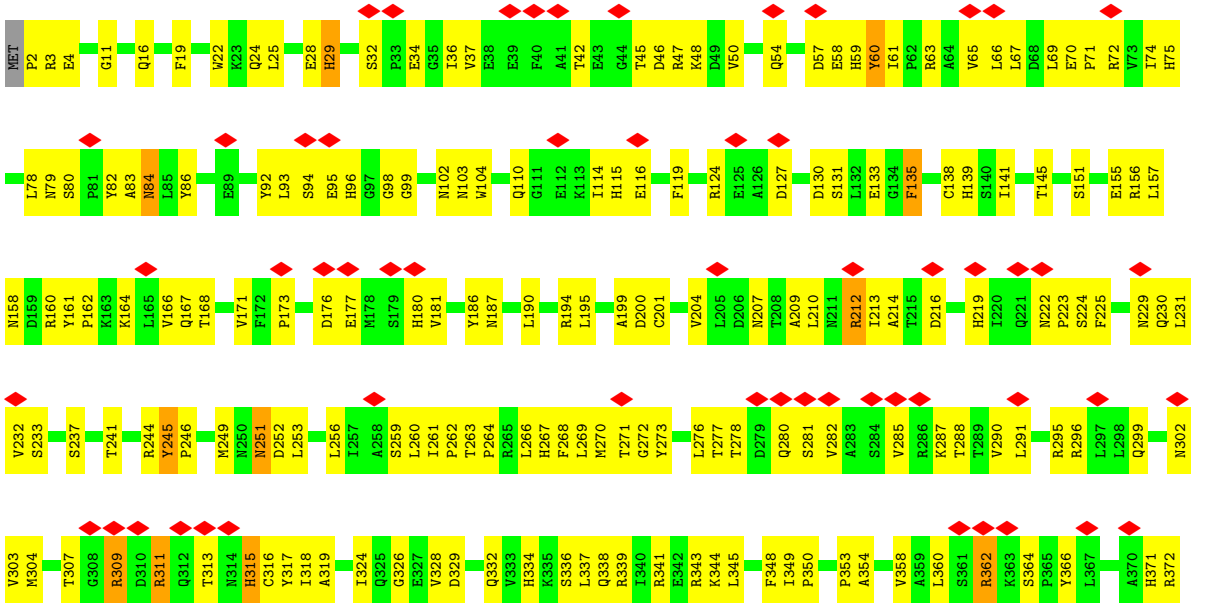
• Molecule 8: Tubulin gamma-1 chain

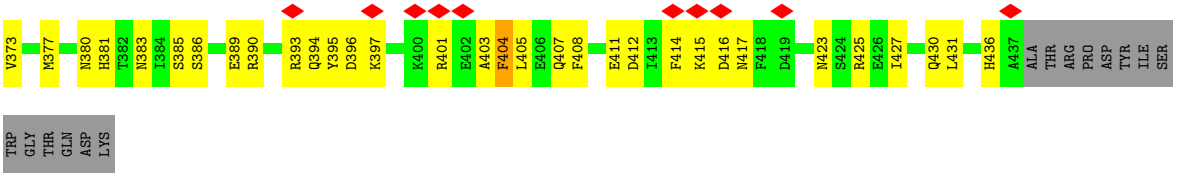
Chain e:



• Molecule 8: Tubulin gamma-1 chain

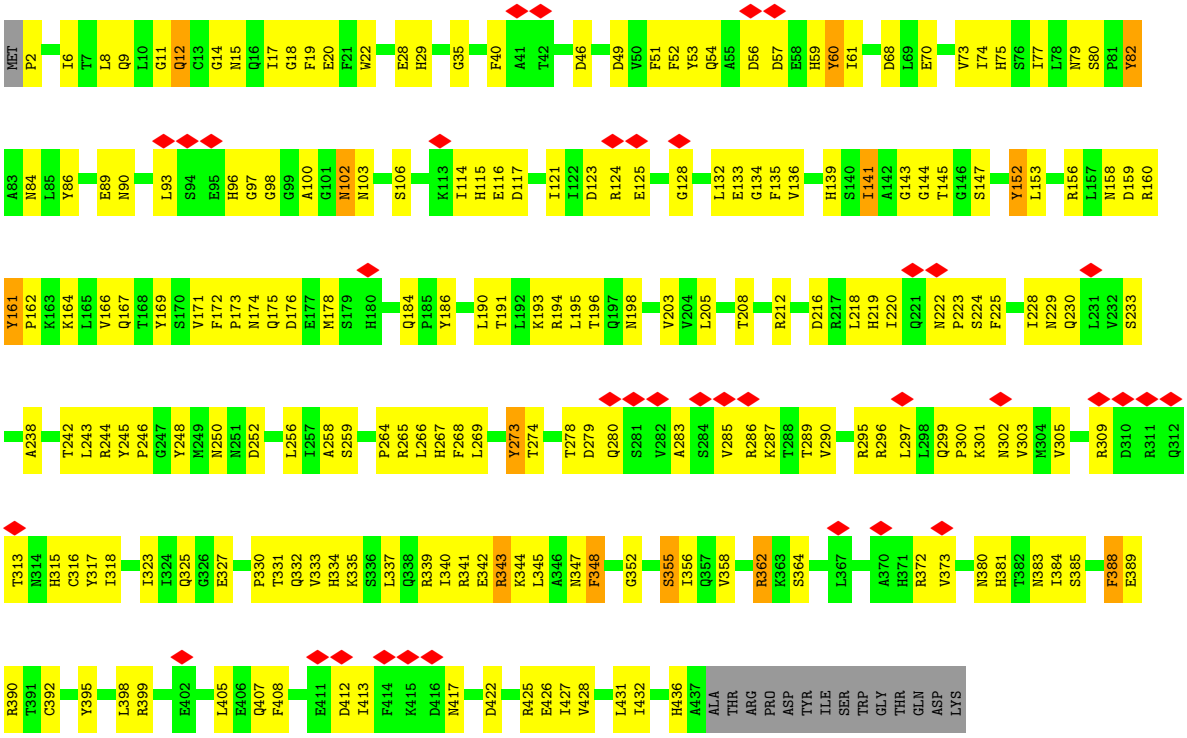
Chain f:





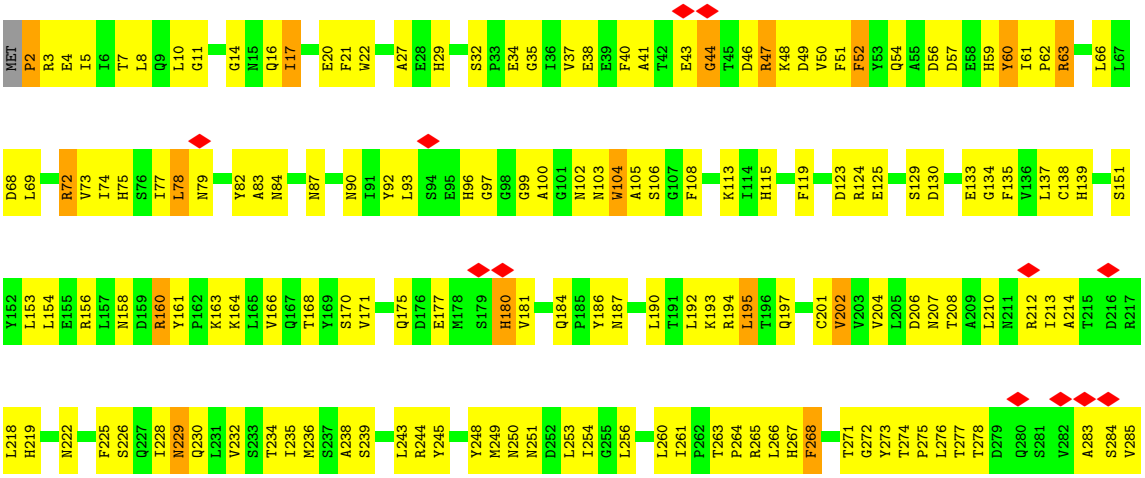
• Molecule 8: Tubulin gamma-1 chain

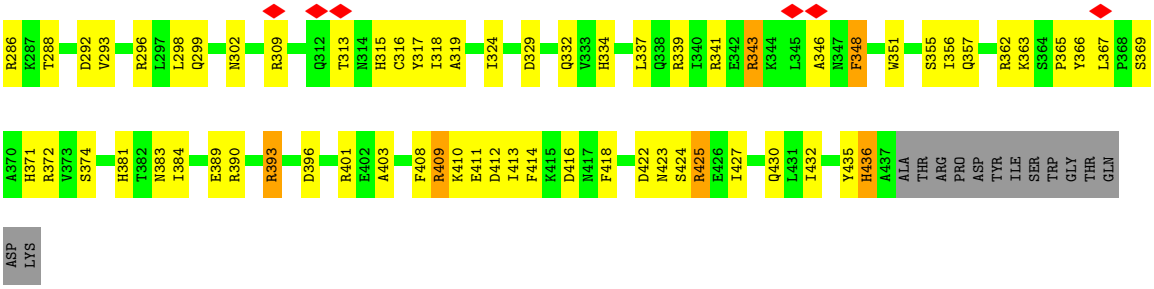
Chain g:



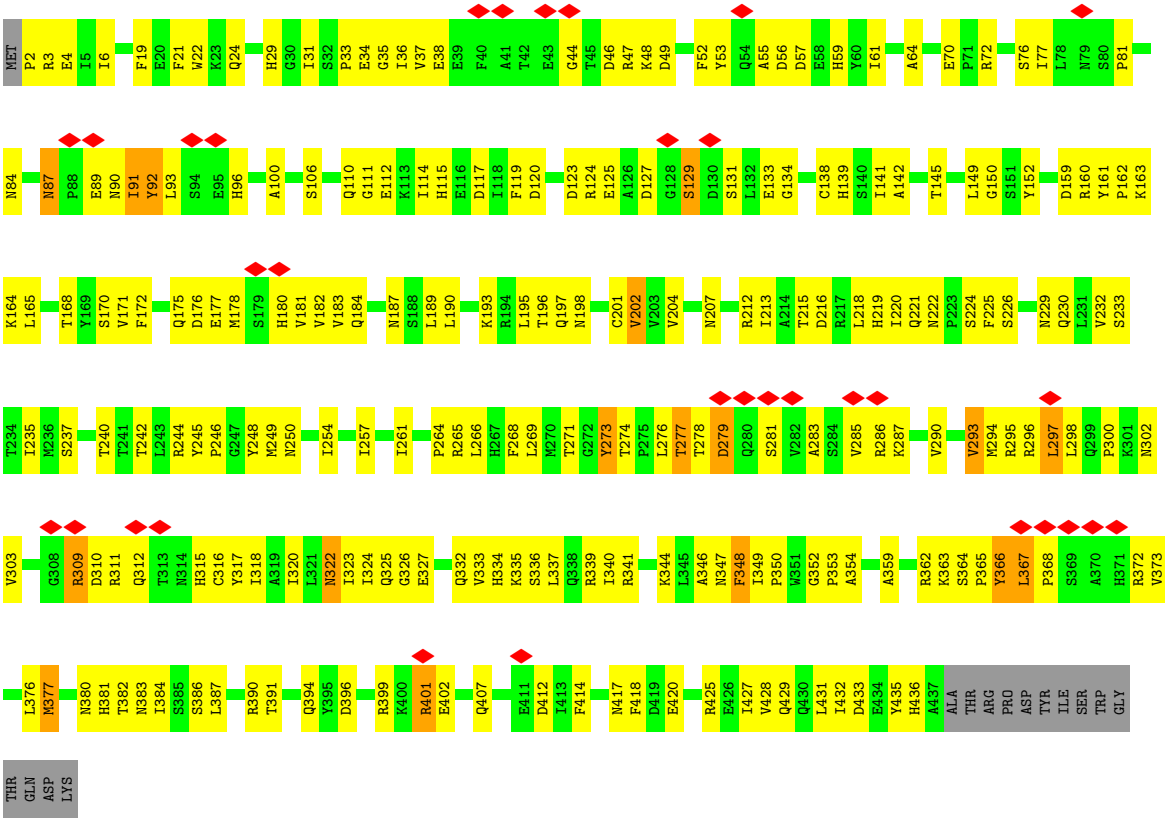
• Molecule 8: Tubulin gamma-1 chain

Chain h:

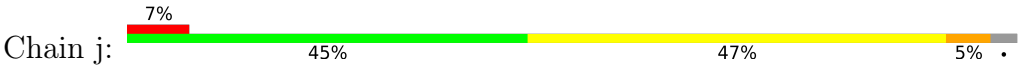


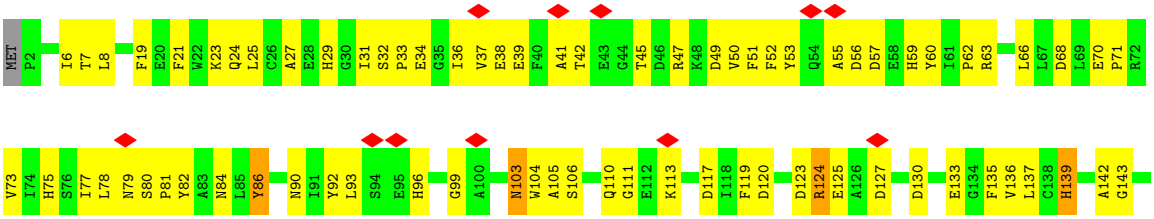


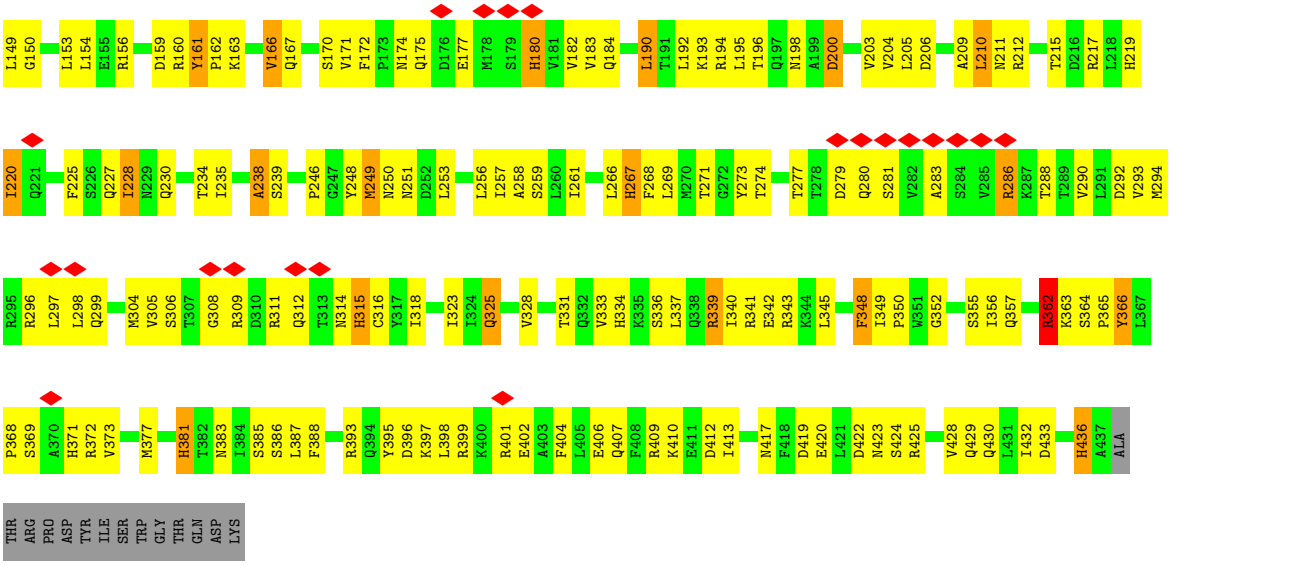
• Molecule 8: Tubulin gamma-1 chain



• Molecule 8: Tubulin gamma-1 chain

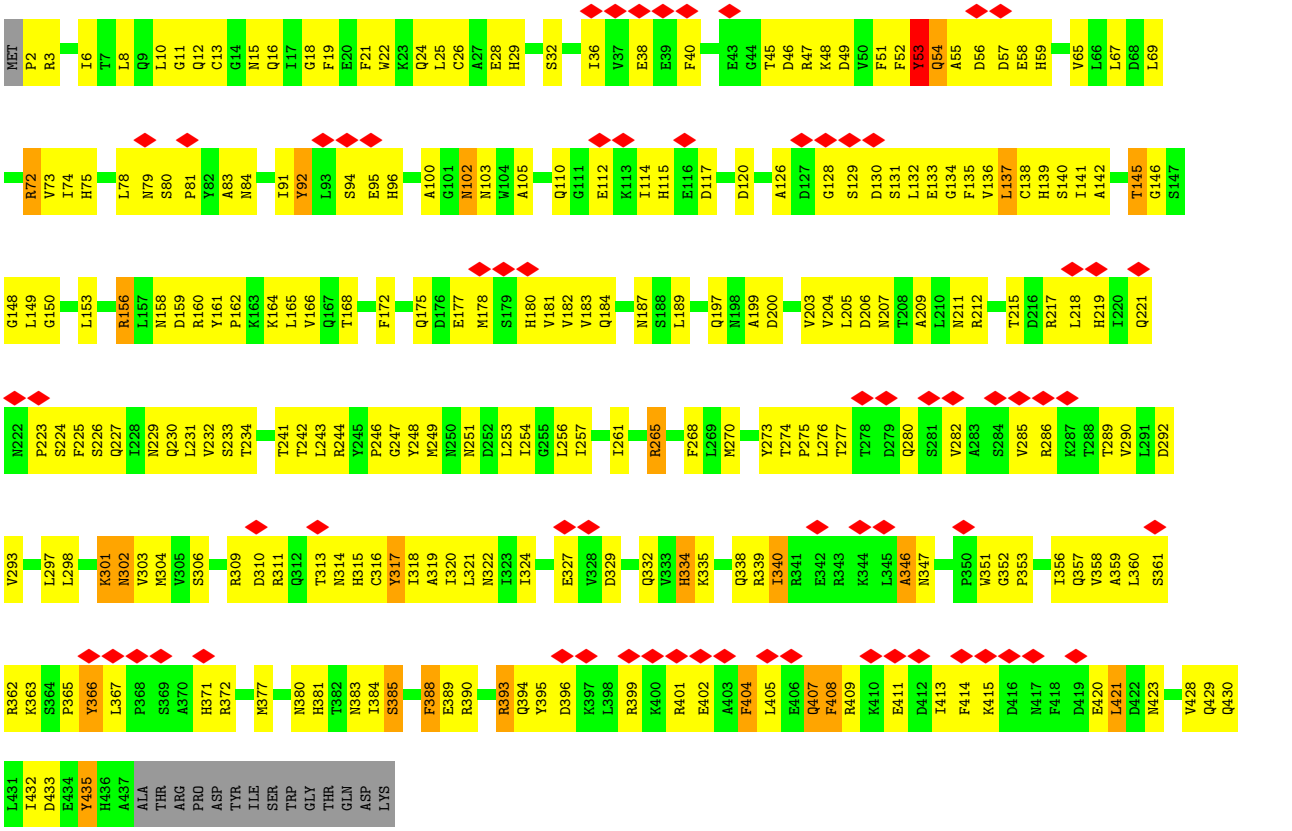






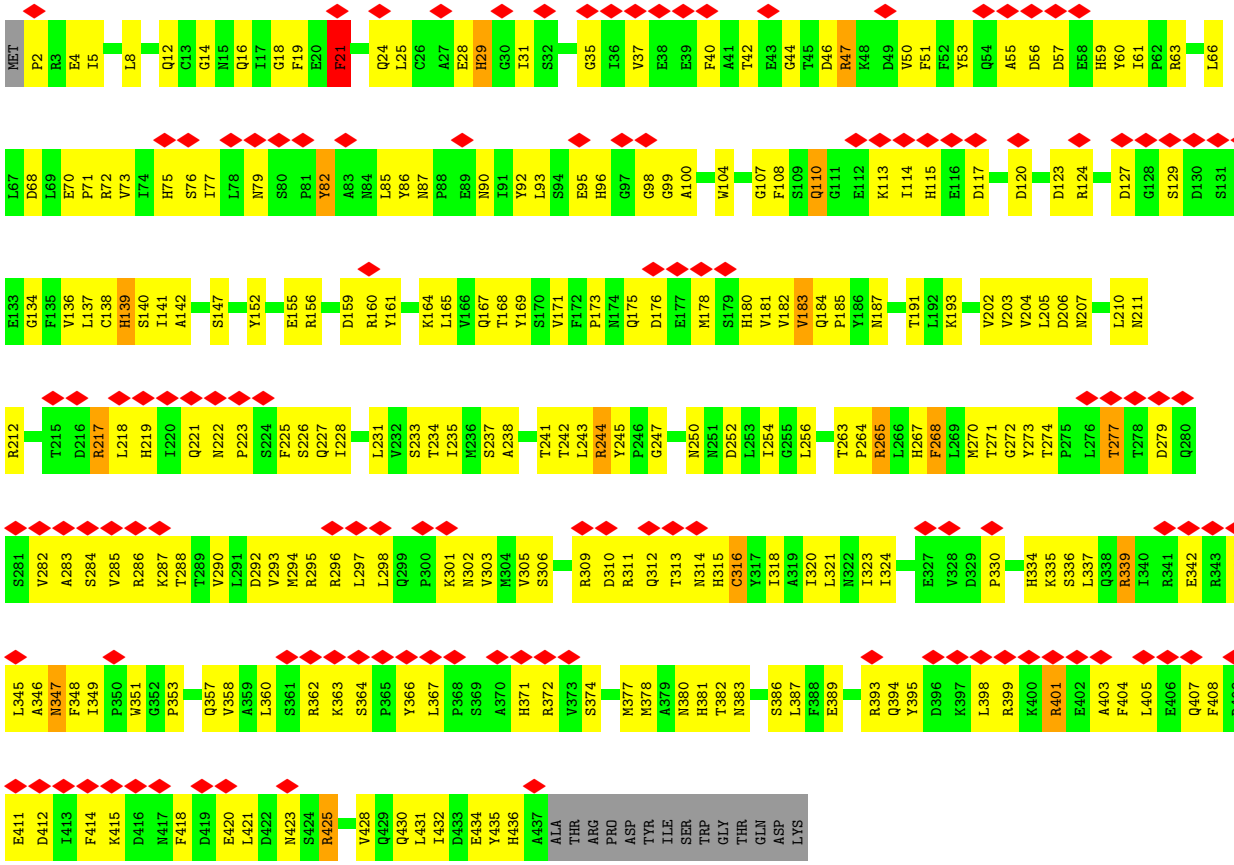
• Molecule 8: Tubulin gamma-1 chain

Chain k:



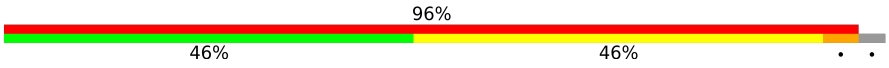
• Molecule 8: Tubulin gamma-1 chain

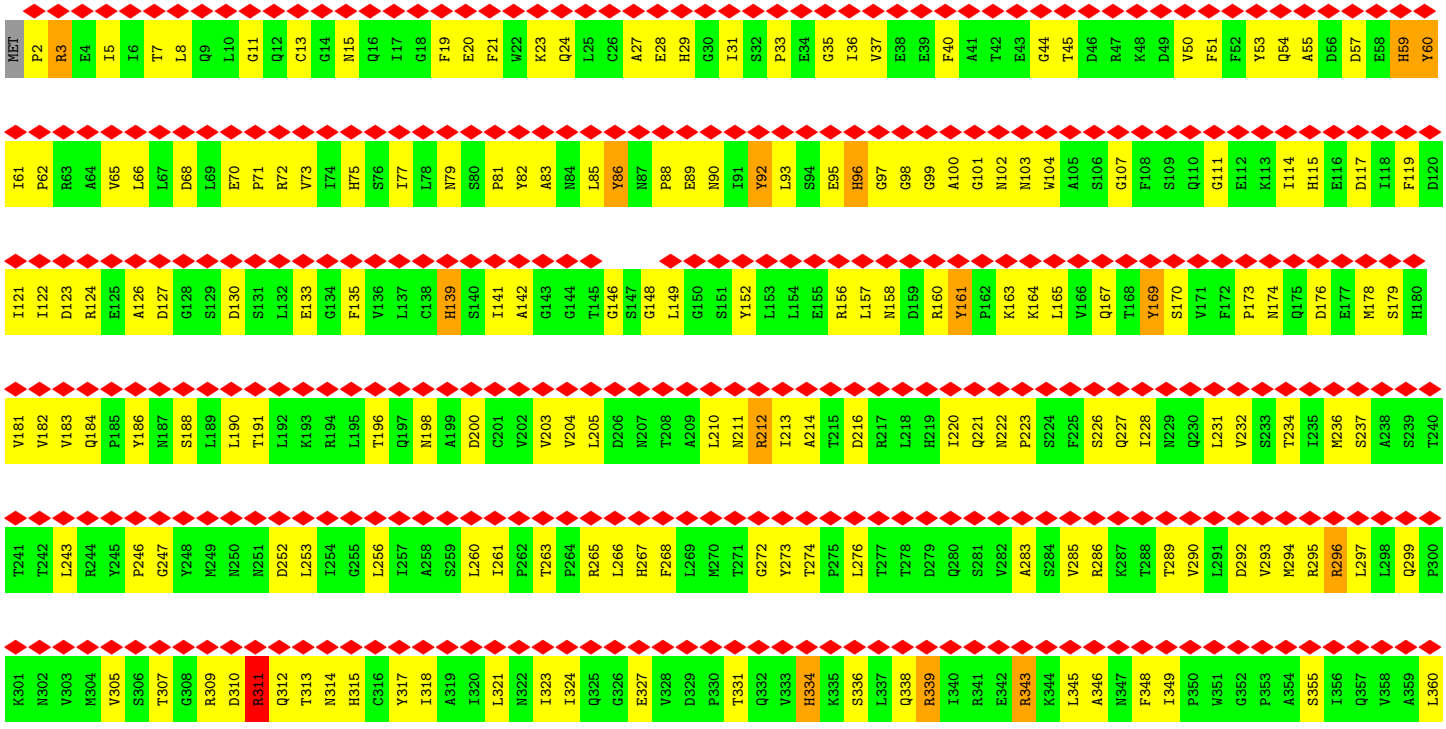
Chain l:

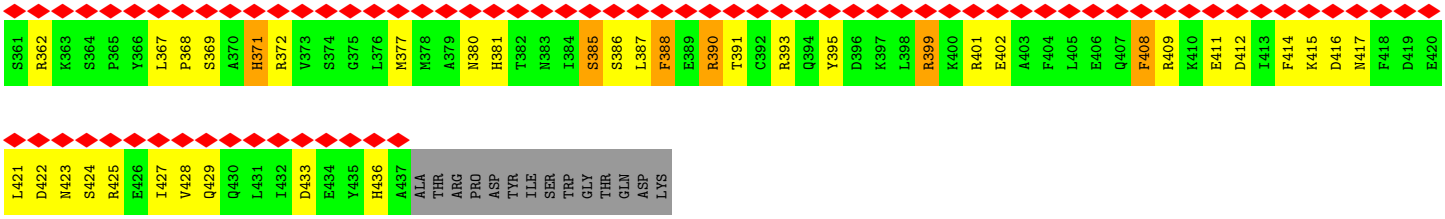


• Molecule 8: Tubulin gamma-1 chain

Chain m:

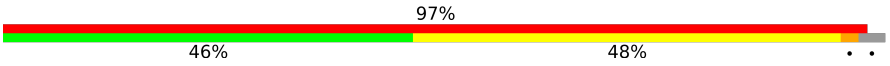


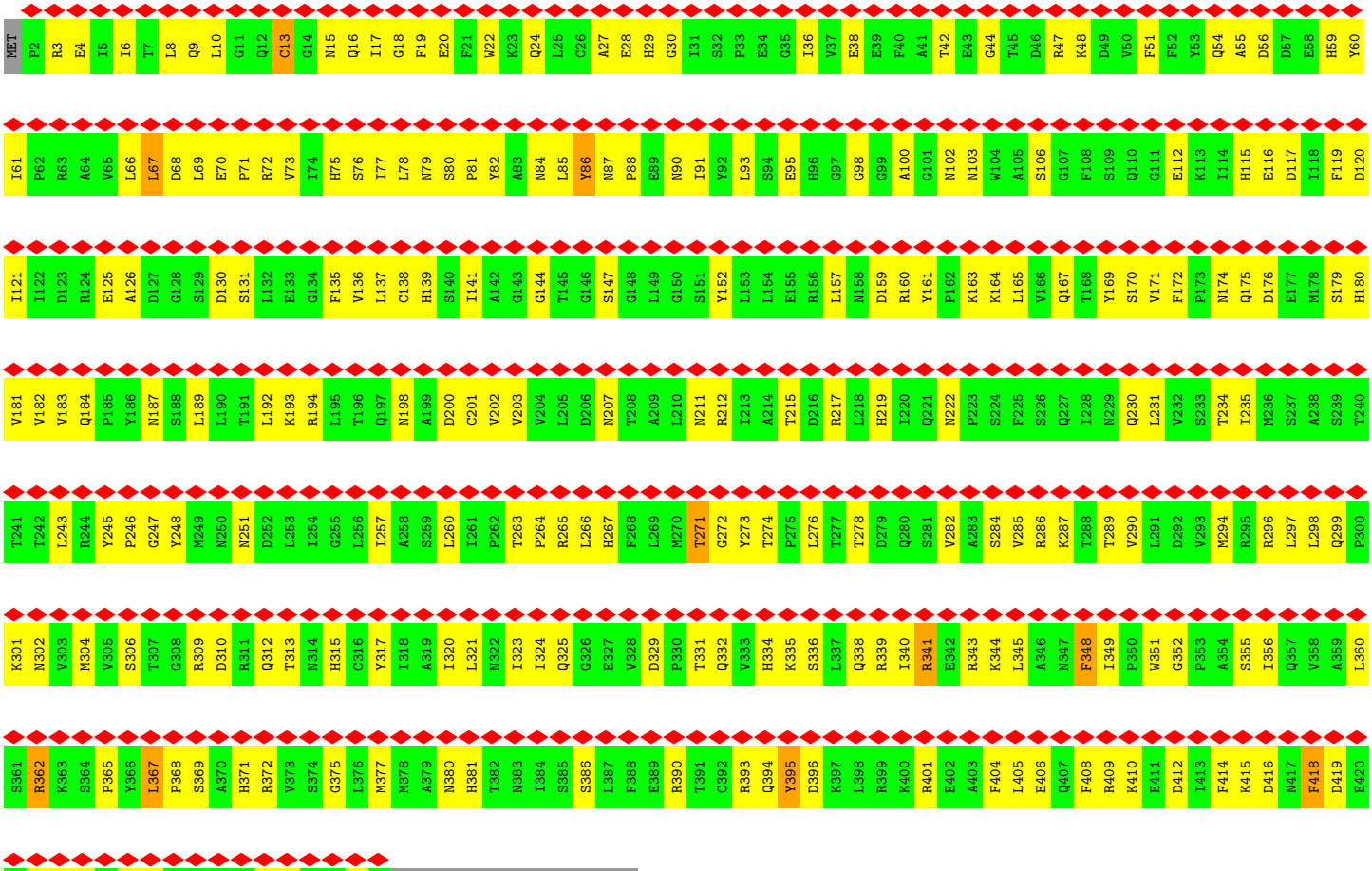




• Molecule 8: Tubulin gamma-1 chain

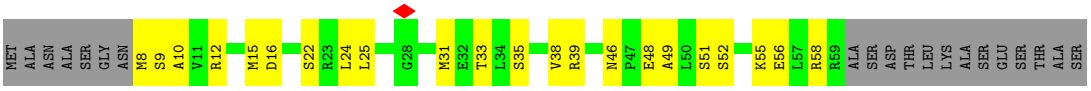
Chain n:





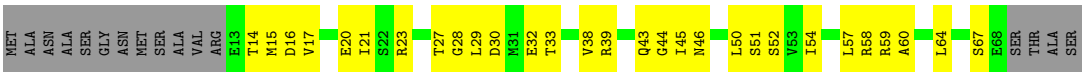
• Molecule 9: Mitotic-spindle organizing protein 1

Chain o:



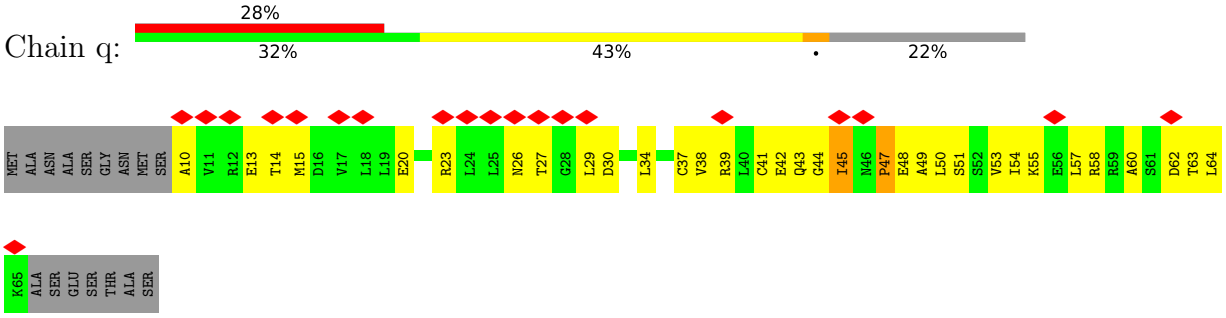
• Molecule 9: Mitotic-spindle organizing protein 1

Chain p:



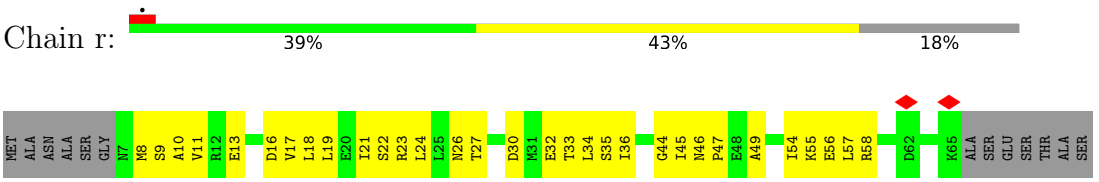
• Molecule 9: Mitotic-spindle organizing protein 1

Chain q:



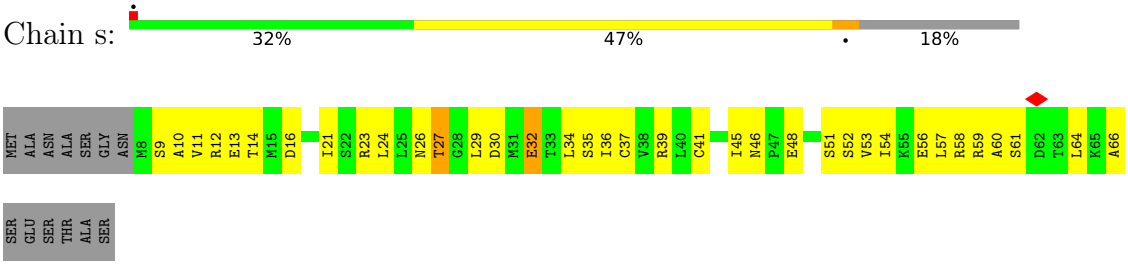
• Molecule 9: Mitotic-spindle organizing protein 1

Chain r:



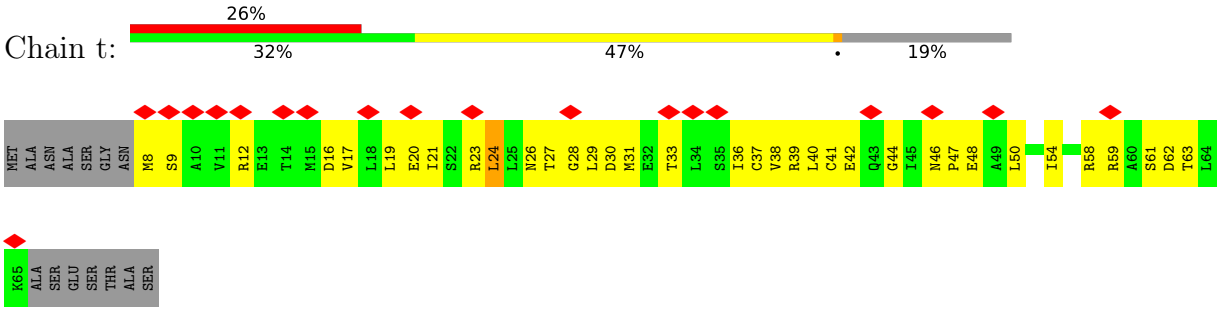
• Molecule 9: Mitotic-spindle organizing protein 1

Chain s:



• Molecule 9: Mitotic-spindle organizing protein 1

Chain t:



4 Experimental information (i)

Property	Value	Source
EM reconstruction method	SINGLE PARTICLE	Depositor
Imposed symmetry	POINT, Not provided	
Number of particles used	299022	Depositor
Resolution determination method	FSC 0.143 CUT-OFF	Depositor
CTF correction method	PHASE FLIPPING AND AMPLITUDE CORRECTION	Depositor
Microscope	TFS KRIOS	Depositor
Voltage (kV)	300	Depositor
Electron dose ($e^-/Å^2$)	51	Depositor
Minimum defocus (nm)	1000	Depositor
Maximum defocus (nm)	3000	Depositor
Magnification	Not provided	
Image detector	GATAN K3 BIOQUANTUM (6k x 4k)	Depositor
Maximum map value	0.276	Depositor
Minimum map value	-0.152	Depositor
Average map value	0.000	Depositor
Map value standard deviation	0.005	Depositor
Recommended contour level	0.0217	Depositor
Map size (Å)	547.8528, 547.8528, 547.8528	wwPDB
Map dimensions	384, 384, 384	wwPDB
Map angles (°)	90.0, 90.0, 90.0	wwPDB
Pixel spacing (Å)	1.4267, 1.4267, 1.4267	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	A	2.23	151/4614 (3.3%)	2.38	288/6236 (4.6%)
1	C	2.20	165/4614 (3.6%)	2.30	241/6236 (3.9%)
1	E	2.21	139/4603 (3.0%)	2.31	230/6221 (3.7%)
1	G	2.26	166/4614 (3.6%)	2.30	240/6236 (3.8%)
1	M	2.22	169/4598 (3.7%)	2.27	203/6215 (3.3%)
2	B	2.24	168/5227 (3.2%)	2.36	280/7060 (4.0%)
2	D	2.21	172/5227 (3.3%)	2.34	298/7060 (4.2%)
2	F	2.23	181/5227 (3.5%)	2.33	272/7060 (3.9%)
2	H	2.23	170/5227 (3.3%)	2.27	251/7060 (3.6%)
2	N	2.23	156/5227 (3.0%)	2.32	263/7060 (3.7%)
2	O	2.30	27/764 (3.5%)	2.42	48/1026 (4.7%)
2	Q	2.23	26/892 (2.9%)	2.51	68/1199 (5.7%)
2	R	2.30	24/805 (3.0%)	2.64	79/1081 (7.3%)
2	S	2.31	37/892 (4.1%)	2.62	82/1199 (6.8%)
2	T	2.27	25/764 (3.3%)	2.59	72/1026 (7.0%)
3	I	2.26	164/4738 (3.5%)	2.32	277/6416 (4.3%)
3	K	2.41	169/4738 (3.6%)	2.36	268/6416 (4.2%)
4	J	2.34	170/5372 (3.2%)	2.36	313/7271 (4.3%)
5	L	2.20	195/6435 (3.0%)	2.37	356/8710 (4.1%)
6	P	2.25	104/2954 (3.5%)	2.28	138/4003 (3.4%)
7	U	2.23	19/640 (3.0%)	2.58	47/854 (5.5%)
7	V	2.15	18/640 (2.8%)	2.60	55/854 (6.4%)
7	W	2.31	26/640 (4.1%)	2.65	61/854 (7.1%)
7	X	2.19	20/640 (3.1%)	2.56	49/854 (5.7%)
8	a	2.23	115/3551 (3.2%)	2.37	200/4815 (4.2%)
8	b	2.25	121/3551 (3.4%)	2.35	213/4815 (4.4%)
8	c	2.35	152/3551 (4.3%)	2.35	205/4815 (4.3%)
8	d	2.31	140/3551 (3.9%)	2.32	168/4815 (3.5%)
8	e	2.25	116/3551 (3.3%)	2.41	219/4815 (4.5%)
8	f	2.28	128/3551 (3.6%)	2.36	196/4815 (4.1%)
8	g	2.22	106/3551 (3.0%)	2.33	198/4815 (4.1%)
8	h	2.27	128/3551 (3.6%)	2.35	208/4815 (4.3%)
8	i	2.28	142/3551 (4.0%)	2.39	208/4815 (4.3%)
8	j	2.29	134/3551 (3.8%)	2.36	199/4815 (4.1%)

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	$\#\|Z\| > 5$	RMSZ	$\#\|Z\| > 5$
8	k	2.51	139/3551 (3.9%)	2.37	219/4815 (4.5%)
8	l	2.25	124/3551 (3.5%)	2.39	214/4815 (4.4%)
8	m	2.27	144/3551 (4.1%)	2.34	187/4815 (3.9%)
8	n	2.30	140/3551 (3.9%)	2.31	189/4815 (3.9%)
9	o	2.27	12/403 (3.0%)	2.51	26/541 (4.8%)
9	p	2.25	10/429 (2.3%)	2.65	37/577 (6.4%)
9	q	2.33	14/432 (3.2%)	2.69	43/581 (7.4%)
9	r	2.27	12/454 (2.6%)	2.56	36/610 (5.9%)
9	s	2.30	18/451 (4.0%)	2.65	48/606 (7.9%)
9	t	2.33	25/446 (5.6%)	2.68	40/599 (6.7%)
All	All	2.27	4581/132421 (3.5%)	2.36	7532/179131 (4.2%)

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
1	A	0	17
1	C	0	20
1	E	0	17
1	G	0	18
1	M	0	19
2	B	0	24
2	D	0	12
2	F	0	19
2	H	0	27
2	N	0	23
2	O	0	2
2	Q	0	5
2	R	0	3
2	S	0	3
2	T	0	1
3	I	0	16
3	K	0	19
4	J	0	21
5	L	0	31
6	P	0	8
7	U	0	1
7	V	0	2
7	W	0	1
7	X	0	3

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Mol	Chain	#Chirality outliers	#Planarity outliers
8	a	0	12
8	b	0	13
8	c	0	10
8	d	0	9
8	e	0	13
8	f	0	12
8	g	0	12
8	h	0	13
8	i	0	7
8	j	0	15
8	k	0	13
8	l	0	10
8	m	0	14
8	n	0	8
All	All	0	473

All (4581) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	515	ARG	CZ-NH2	63.18	2.15	1.33
3	I	16	ILE	CG1-CD1	35.98	2.92	1.51
8	k	435	TYR	CG-CD2	33.11	2.08	1.39
4	J	242	TRP	CD2-CE3	31.39	1.90	1.40
8	k	435	TYR	CG-CD1	30.15	2.02	1.39
8	k	435	TYR	CE1-CZ	28.76	2.07	1.38
4	J	242	TRP	CE2-CZ2	26.57	1.95	1.39
8	k	435	TYR	CE2-CZ	25.65	1.99	1.38
4	J	242	TRP	CZ2-CH2	23.40	1.81	1.37
4	J	242	TRP	CD2-CE2	23.05	1.80	1.41
8	k	435	TYR	CD1-CE1	21.82	2.04	1.38
8	k	435	TYR	CD2-CE2	19.91	1.98	1.38
4	J	242	TRP	CZ3-CH2	15.42	1.79	1.40
4	J	242	TRP	CE3-CZ3	12.94	1.77	1.38
4	J	765	TYR	C-O	-12.81	1.18	1.23
4	J	217	VAL	CA-CB	-12.66	1.41	1.54
2	S	62	PHE	C-N	12.57	1.49	1.33
4	J	765	TYR	CA-CB	12.35	1.61	1.52
8	h	93	LEU	CA-C	-12.12	1.37	1.52
2	N	730	TRP	NE1-CE2	-12.10	1.24	1.37
2	O	98	LEU	N-CA	-11.79	1.32	1.46
1	A	523	GLN	CA-C	-11.59	1.41	1.53
8	e	61	ILE	CA-CB	11.55	1.63	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	a	104	TRP	NE1-CE2	11.25	1.49	1.37
8	c	190	LEU	CA-C	-11.17	1.38	1.52
8	e	260	LEU	C-N	11.03	1.41	1.33
2	H	553	ASN	CA-C	-10.80	1.39	1.53
8	b	311	ARG	CD-NE	10.71	1.61	1.46
8	d	318	ILE	CA-C	-10.61	1.42	1.52
1	E	642	ARG	NE-CZ	10.58	1.44	1.33
1	A	317	LEU	N-CA	-10.37	1.36	1.46
1	G	242	SER	CA-CB	10.34	1.63	1.53
8	g	14	GLY	N-CA	-10.20	1.32	1.45
1	A	250	ASN	CA-C	-9.98	1.40	1.52
4	J	393	ILE	CA-C	9.95	1.62	1.52
8	k	135	PHE	CA-C	-9.91	1.40	1.52
2	B	400	HIS	ND1-CE1	9.86	1.42	1.32
2	B	736	LYS	C-N	9.76	1.44	1.34
2	D	386	HIS	ND1-CE1	9.72	1.42	1.32
2	N	391	LYS	C-N	9.70	1.42	1.33
8	f	61	ILE	N-CA	-9.69	1.38	1.46
4	J	690	ILE	C-N	9.67	1.45	1.33
2	B	622	VAL	CA-C	-9.61	1.41	1.52
8	i	124	ARG	NE-CZ	9.60	1.43	1.33
8	a	436	HIS	ND1-CE1	9.57	1.42	1.32
1	M	487	ILE	N-CA	-9.54	1.35	1.46
8	e	66	LEU	CA-C	-9.47	1.41	1.53
8	e	31	ILE	CA-C	-9.45	1.42	1.52
8	b	145	THR	CA-C	-9.43	1.41	1.52
2	D	288	ASP	C-N	9.41	1.44	1.34
8	f	222	ASN	C-N	9.39	1.44	1.33
6	P	154	ASP	CA-CB	9.37	1.64	1.53
5	L	34	ARG	CD-NE	9.37	1.59	1.46
8	n	174	ASN	CA-CB	9.37	1.66	1.53
2	B	761	CYS	CA-C	-9.35	1.41	1.53
3	I	369	PHE	CA-C	9.34	1.64	1.52
2	B	870	GLU	N-CA	-9.34	1.34	1.45
1	A	267	THR	CA-C	-9.31	1.41	1.52
1	A	390	LEU	CA-C	-9.27	1.40	1.52
8	c	409	ARG	CD-NE	9.24	1.59	1.46
1	E	337	LEU	CA-CB	9.23	1.67	1.53
2	F	498	ASP	CA-C	9.22	1.63	1.52
2	B	466	ARG	NE-CZ	9.20	1.43	1.33
2	Q	64	ARG	CD-NE	9.15	1.59	1.46
3	I	282	SER	C-N	9.15	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	h	316	CYS	CA-C	-9.15	1.41	1.52
8	i	334	HIS	CB-CG	-9.13	1.37	1.50
8	l	374	SER	CA-C	9.12	1.63	1.52
8	d	353	PRO	N-CA	-9.11	1.36	1.46
8	j	249	MET	CA-C	-9.10	1.41	1.52
1	C	301	GLU	CA-C	9.09	1.65	1.52
8	c	199	ALA	CA-C	-9.08	1.41	1.52
8	f	261	ILE	CA-C	-9.08	1.43	1.52
3	I	30	ASP	CA-C	-9.06	1.43	1.53
1	C	546	ILE	CA-C	9.06	1.62	1.52
8	i	120	ASP	CA-C	-9.05	1.43	1.53
2	H	311	SER	CA-CB	9.03	1.64	1.53
2	O	42	ASN	CA-CB	9.03	1.62	1.53
8	f	16	GLN	C-N	9.03	1.43	1.34
2	Q	42	ASN	CA-C	-8.99	1.42	1.52
1	E	332	ARG	NE-CZ	8.98	1.43	1.33
8	h	381	HIS	ND1-CE1	8.98	1.41	1.32
8	i	254	ILE	N-CA	-8.97	1.37	1.46
1	E	460	ARG	CA-C	-8.93	1.40	1.52
8	c	204	VAL	CA-C	-8.93	1.42	1.52
2	N	825	GLU	C-N	8.88	1.45	1.33
8	i	120	ASP	CA-CB	8.85	1.59	1.53
8	f	161	TYR	CA-CB	8.85	1.63	1.53
3	K	600	LEU	C-N	-8.83	1.28	1.34
3	I	394	VAL	CA-C	-8.82	1.39	1.52
9	t	38	VAL	CA-CB	8.82	1.65	1.54
1	A	245	PHE	CA-C	-8.80	1.42	1.52
3	K	551	ARG	NE-CZ	8.79	1.42	1.33
5	L	601	THR	CA-C	-8.79	1.41	1.52
1	G	543	ASP	CA-CB	8.79	1.64	1.53
7	X	630	ILE	C-N	8.78	1.45	1.33
8	l	5	ILE	CA-CB	8.77	1.64	1.54
8	c	60	TYR	CA-C	-8.76	1.41	1.52
8	i	364	SER	CA-CB	8.76	1.66	1.53
8	h	35	GLY	CA-C	-8.75	1.43	1.52
8	n	137	LEU	CA-CB	8.75	1.64	1.52
1	G	565	THR	C-N	8.74	1.43	1.33
6	P	101	HIS	ND1-CE1	8.72	1.41	1.32
8	a	61	ILE	N-CA	-8.72	1.38	1.46
8	i	354	ALA	CA-C	-8.71	1.41	1.52
8	c	219	HIS	ND1-CE1	8.71	1.41	1.32
5	L	1458	ASN	CA-CB	8.68	1.67	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	n	86	TYR	CA-C	-8.66	1.41	1.52
3	I	106	ASP	CA-C	-8.65	1.40	1.52
1	M	503	MET	CA-CB	8.65	1.67	1.53
2	D	736	LYS	CA-C	-8.65	1.41	1.52
8	m	45	THR	N-CA	-8.65	1.35	1.46
8	e	240	THR	N-CA	-8.65	1.36	1.46
8	k	29	HIS	ND1-CE1	8.65	1.41	1.32
8	j	314	ASN	CA-C	-8.64	1.41	1.52
8	f	338	GLN	CA-C	-8.64	1.41	1.52
4	J	308	SER	C-N	8.63	1.44	1.33
1	G	224	LEU	C-N	8.63	1.44	1.33
1	G	700	VAL	CA-C	-8.63	1.43	1.52
1	C	407	MET	C-N	8.62	1.42	1.33
2	D	457	ARG	CD-NE	8.60	1.58	1.46
3	K	499	MET	CA-CB	8.58	1.64	1.53
1	G	558	LEU	CA-C	-8.57	1.42	1.52
2	D	608	ASN	CA-C	-8.56	1.42	1.52
5	L	7	LEU	N-CA	-8.56	1.36	1.46
8	j	246	PRO	C-N	8.55	1.41	1.33
3	I	484	VAL	CA-C	-8.54	1.42	1.53
1	M	607	LEU	CA-C	-8.54	1.41	1.52
8	n	371	HIS	ND1-CE1	8.54	1.41	1.32
8	n	401	ARG	C-N	8.54	1.45	1.33
8	j	29	HIS	C-N	8.54	1.44	1.33
1	M	439	PRO	C-N	8.53	1.45	1.33
8	f	96	HIS	ND1-CE1	8.53	1.41	1.32
8	m	297	LEU	CB-CG	8.53	1.70	1.53
2	B	552	TYR	CA-C	-8.52	1.41	1.52
8	a	241	THR	C-N	8.52	1.43	1.33
8	d	276	LEU	N-CA	-8.49	1.38	1.46
1	A	448	LYS	C-N	8.49	1.44	1.33
7	V	600	ILE	N-CA	-8.48	1.36	1.46
8	a	87	ASN	CA-CB	8.48	1.60	1.53
8	f	372	ARG	NE-CZ	8.48	1.42	1.33
8	g	161	TYR	N-CA	8.48	1.54	1.46
8	i	244	ARG	CA-C	-8.48	1.44	1.53
5	L	1374	HIS	ND1-CE1	8.47	1.41	1.32
9	t	19	LEU	N-CA	-8.45	1.35	1.46
8	l	252	ASP	N-CA	-8.45	1.35	1.45
8	c	97	GLY	N-CA	-8.45	1.33	1.45
1	M	287	VAL	CA-CB	-8.45	1.43	1.54
3	K	82	HIS	CA-C	-8.45	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	1554	HIS	CG-ND1	-8.44	1.28	1.38
8	l	295	ARG	N-CA	-8.44	1.36	1.46
8	c	296	ARG	CA-CB	8.42	1.67	1.53
8	a	126	ALA	N-CA	-8.42	1.36	1.46
8	j	328	VAL	N-CA	-8.40	1.35	1.46
8	e	425	ARG	NE-CZ	8.36	1.42	1.33
8	a	115	HIS	CG-ND1	-8.35	1.29	1.38
8	f	63	ARG	NE-CZ	8.34	1.42	1.33
8	b	229	ASN	C-N	8.34	1.45	1.33
8	n	20	GLU	N-CA	-8.34	1.35	1.46
2	D	635	ASP	N-CA	-8.33	1.35	1.46
1	E	732	CYS	CA-C	-8.33	1.41	1.52
1	C	261	ARG	CD-NE	8.33	1.57	1.46
8	k	45	THR	CA-C	-8.32	1.42	1.52
2	S	89	ASN	CA-C	-8.30	1.42	1.52
2	D	400	HIS	ND1-CE1	8.29	1.40	1.32
4	J	363	ALA	CA-C	-8.29	1.41	1.52
2	R	67	ARG	CA-CB	8.29	1.61	1.53
8	m	422	ASP	N-CA	-8.29	1.35	1.46
2	D	449	SER	CA-C	-8.26	1.42	1.52
8	n	126	ALA	N-CA	-8.26	1.35	1.46
3	K	166	PRO	CA-C	-8.26	1.44	1.52
4	J	724	LEU	CA-C	-8.26	1.42	1.53
8	g	8	LEU	CA-C	-8.26	1.43	1.53
5	L	1524	TRP	NE1-CE2	-8.25	1.28	1.37
2	B	618	LYS	CA-C	-8.24	1.41	1.52
8	c	260	LEU	C-N	8.24	1.40	1.33
2	H	701	HIS	ND1-CE1	8.24	1.40	1.32
9	q	20	GLU	C-N	8.24	1.44	1.33
1	C	387	PHE	CA-C	-8.23	1.41	1.52
4	J	227	ARG	CA-C	-8.23	1.42	1.52
1	E	511	HIS	CA-C	-8.23	1.42	1.52
1	E	540	LYS	CA-C	-8.22	1.44	1.53
8	j	239	SER	C-N	8.22	1.44	1.33
2	N	811	GLU	C-N	8.22	1.45	1.33
2	B	342	HIS	ND1-CE1	8.21	1.40	1.32
5	L	1436	VAL	CA-CB	-8.20	1.44	1.54
8	f	324	ILE	CA-CB	-8.19	1.43	1.54
4	J	910	HIS	ND1-CE1	8.19	1.40	1.32
8	d	57	ASP	CA-C	8.19	1.60	1.52
1	C	745	LYS	C-N	8.18	1.44	1.33
4	J	1001	SER	CA-C	-8.17	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	761	CYS	CA-CB	8.16	1.64	1.53
8	d	401	ARG	CD-NE	8.16	1.57	1.46
2	N	780	GLN	CA-C	-8.16	1.41	1.52
2	N	345	LEU	N-CA	-8.15	1.36	1.46
7	X	641	GLN	CA-C	-8.15	1.42	1.52
5	L	44	TYR	C-N	8.14	1.44	1.33
2	H	642	HIS	ND1-CE1	8.14	1.40	1.32
1	A	247	VAL	CA-CB	8.13	1.63	1.54
8	k	380	ASN	CA-C	-8.13	1.44	1.53
2	N	362	THR	CA-C	-8.13	1.42	1.52
8	d	191	THR	CA-C	-8.12	1.41	1.52
8	e	133	GLU	C-N	8.12	1.41	1.33
3	K	19	TRP	NE1-CE2	-8.12	1.28	1.37
8	n	304	MET	C-N	8.12	1.44	1.33
2	R	25	GLU	N-CA	-8.11	1.36	1.46
8	j	194	ARG	NE-CZ	8.11	1.42	1.33
8	g	136	VAL	CA-CB	-8.11	1.44	1.54
8	i	193	LYS	CA-CB	8.10	1.66	1.53
5	L	222	HIS	CE1-NE2	8.10	1.40	1.32
2	F	342	HIS	CD2-NE2	8.09	1.46	1.37
2	O	43	PHE	CA-C	-8.09	1.42	1.52
8	l	107	GLY	CA-C	-8.09	1.40	1.51
8	a	176	ASP	CA-C	-8.08	1.42	1.52
2	B	464	SER	CA-C	-8.08	1.43	1.52
5	L	34	ARG	NE-CZ	8.07	1.42	1.33
8	g	6	ILE	CA-CB	8.06	1.63	1.54
2	H	498	ASP	N-CA	-8.06	1.37	1.46
8	i	363	LYS	CA-CB	8.06	1.63	1.53
7	X	638	SER	C-N	8.04	1.44	1.33
2	F	761	CYS	CA-C	-8.03	1.44	1.53
1	A	464	HIS	ND1-CE1	8.02	1.40	1.32
2	B	523	THR	CA-C	-8.02	1.42	1.52
1	A	852	HIS	CB-CG	8.02	1.61	1.50
8	d	414	PHE	CA-CB	8.02	1.61	1.53
1	M	651	GLU	N-CA	-8.01	1.36	1.46
8	h	181	VAL	N-CA	-8.01	1.36	1.46
8	b	26	CYS	CA-CB	8.01	1.66	1.53
1	G	394	ILE	CA-C	-8.00	1.42	1.52
2	H	473	PHE	CA-C	-8.00	1.41	1.52
8	n	272	GLY	C-N	8.00	1.43	1.33
2	F	317	GLY	CA-C	-8.00	1.40	1.51
8	c	74	ILE	CA-C	-7.99	1.42	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	1585	LEU	C-N	7.99	1.43	1.33
8	n	137	LEU	CA-C	-7.98	1.42	1.52
8	n	117	ASP	CA-CB	7.97	1.66	1.53
1	E	254	SER	C-N	7.97	1.43	1.33
8	e	204	VAL	C-N	7.97	1.44	1.33
2	B	770	LEU	N-CA	-7.95	1.36	1.46
2	N	775	ARG	NE-CZ	7.95	1.41	1.33
8	e	416	ASP	CA-C	-7.94	1.43	1.52
4	J	209	ARG	CA-CB	7.93	1.65	1.53
8	b	283	ALA	N-CA	-7.93	1.37	1.46
8	g	194	ARG	NE-CZ	7.93	1.41	1.33
5	L	250	VAL	CA-CB	-7.93	1.48	1.54
8	f	173	PRO	CA-C	-7.92	1.44	1.52
8	h	168	THR	C-N	7.92	1.44	1.33
2	O	92	SER	CA-C	-7.92	1.42	1.52
2	H	310	ARG	CD-NE	7.91	1.57	1.46
4	J	835	VAL	CA-CB	-7.91	1.43	1.54
2	B	413	LEU	N-CA	-7.91	1.36	1.46
2	Q	104	PRO	N-CA	-7.91	1.41	1.47
8	m	416	ASP	CA-C	-7.90	1.43	1.52
2	B	273	CYS	CA-C	7.89	1.62	1.53
8	c	103	ASN	CA-C	-7.89	1.43	1.52
9	s	56	GLU	N-CA	7.89	1.56	1.46
8	i	380	ASN	CA-C	-7.88	1.45	1.53
8	m	372	ARG	NE-CZ	7.88	1.41	1.33
4	J	812	CYS	N-CA	-7.88	1.36	1.46
8	m	179	SER	CA-C	7.88	1.62	1.52
3	K	633	ARG	CD-NE	7.87	1.57	1.46
8	b	387	LEU	N-CA	-7.87	1.36	1.46
8	d	66	LEU	CA-C	-7.87	1.44	1.53
1	E	245	PHE	CA-C	-7.86	1.43	1.52
8	l	110	GLN	CA-C	7.86	1.63	1.52
1	A	856	ASN	C-N	7.85	1.43	1.33
3	K	596	VAL	CA-C	-7.85	1.42	1.52
8	n	276	LEU	CA-C	-7.84	1.41	1.52
1	E	302	TYR	CA-C	-7.84	1.42	1.52
1	G	490	ALA	C-N	7.84	1.43	1.33
8	g	56	ASP	CA-C	-7.83	1.46	1.52
6	P	312	ARG	CA-C	-7.83	1.42	1.52
2	D	460	HIS	N-CA	-7.82	1.35	1.46
8	c	225	PHE	CA-CB	7.82	1.63	1.52
1	A	707	ILE	C-N	7.82	1.45	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	882	ASN	CA-CB	7.82	1.66	1.53
5	L	1361	VAL	CA-C	-7.82	1.43	1.52
1	M	705	TRP	NE1-CE2	-7.82	1.28	1.37
2	H	517	ASP	CA-CB	7.82	1.65	1.53
8	j	306	SER	CA-CB	7.82	1.66	1.53
8	k	420	GLU	C-N	7.81	1.45	1.33
1	C	256	LYS	CA-CB	7.81	1.66	1.53
5	L	578	LYS	CA-C	-7.81	1.42	1.52
1	G	852	HIS	CG-CD2	7.81	1.44	1.35
3	K	486	ARG	CA-C	-7.80	1.43	1.52
2	B	658	HIS	CE1-NE2	7.80	1.40	1.32
1	A	732	CYS	CA-C	-7.79	1.42	1.52
3	K	111	PHE	N-CA	-7.79	1.35	1.46
2	R	10	ASN	CA-CB	7.79	1.65	1.53
8	i	429	GLN	CA-CB	7.79	1.66	1.53
8	c	248	TYR	CA-CB	7.78	1.66	1.53
2	D	730	TRP	N-CA	-7.78	1.36	1.46
8	m	292	ASP	CA-CB	7.78	1.66	1.53
8	k	75	HIS	ND1-CE1	7.77	1.40	1.32
1	C	272	VAL	C-N	7.77	1.44	1.33
2	D	334	TYR	C-N	7.77	1.45	1.33
8	m	267	HIS	C-N	7.77	1.44	1.33
1	A	452	THR	CA-C	-7.77	1.43	1.52
2	Q	44	ALA	CA-C	-7.77	1.43	1.52
3	I	31	ILE	CA-C	-7.76	1.45	1.52
8	k	78	LEU	CA-C	-7.75	1.42	1.52
8	a	436	HIS	CB-CG	7.75	1.61	1.50
2	O	93	ILE	N-CA	-7.74	1.37	1.46
6	P	10	VAL	N-CA	-7.74	1.36	1.46
8	a	309	ARG	NE-CZ	7.74	1.41	1.33
2	R	64	ARG	N-CA	-7.73	1.37	1.46
1	E	720	ASP	CA-C	-7.73	1.43	1.52
2	Q	100	LEU	C-N	7.72	1.43	1.33
8	k	146	GLY	CA-C	-7.72	1.41	1.51
1	C	649	HIS	CG-CD2	7.72	1.44	1.35
1	G	566	ASP	CA-C	-7.72	1.43	1.52
8	m	90	ASN	CA-CB	7.72	1.66	1.53
2	H	638	SER	CA-C	-7.71	1.42	1.52
2	N	683	HIS	ND1-CE1	7.71	1.40	1.32
3	I	510	ASP	C-N	7.71	1.44	1.34
7	X	605	ASN	C-N	7.71	1.44	1.33
2	H	649	THR	C-N	7.70	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	a	433	ASP	CA-C	-7.70	1.42	1.52
8	a	332	GLN	C-N	7.70	1.43	1.33
1	M	537	GLU	C-N	7.70	1.44	1.33
8	k	205	LEU	CA-C	7.69	1.61	1.52
2	N	661	ARG	CA-CB	7.69	1.65	1.53
1	G	834	HIS	ND1-CE1	7.68	1.40	1.32
1	C	278	GLU	CA-CB	7.68	1.65	1.53
2	N	513	GLU	CA-C	-7.68	1.43	1.52
2	F	828	GLU	CA-C	-7.68	1.42	1.52
5	L	465	ARG	CD-NE	7.67	1.56	1.46
2	D	844	SER	CA-CB	7.67	1.65	1.53
1	M	315	GLN	CA-C	-7.67	1.43	1.52
8	g	125	GLU	CA-C	7.66	1.62	1.52
1	G	643	HIS	ND1-CE1	7.66	1.40	1.32
8	f	371	HIS	ND1-CE1	7.66	1.40	1.32
1	A	239	GLY	CA-C	7.66	1.59	1.51
8	b	3	ARG	CA-CB	-7.65	1.47	1.53
5	L	1599	ALA	CA-C	-7.65	1.42	1.52
8	g	174	ASN	C-N	7.64	1.44	1.33
8	m	214	ALA	N-CA	7.64	1.56	1.46
1	C	526	PHE	C-O	-7.64	1.15	1.24
4	J	273	LEU	CA-C	-7.63	1.42	1.52
2	S	114	PHE	CA-C	7.63	1.63	1.52
8	k	362	ARG	NE-CZ	7.63	1.41	1.33
8	f	337	LEU	CA-C	-7.62	1.42	1.52
3	I	193	HIS	CB-CG	-7.62	1.39	1.50
2	D	415	GLN	CA-C	-7.61	1.42	1.52
1	G	629	ILE	CA-C	-7.61	1.43	1.52
8	l	256	LEU	CA-C	-7.61	1.42	1.52
8	c	366	TYR	CA-C	-7.61	1.43	1.52
2	F	715	HIS	ND1-CE1	7.61	1.40	1.32
8	a	51	PHE	C-N	7.60	1.43	1.33
2	F	386	HIS	ND1-CE1	7.60	1.40	1.32
8	m	321	LEU	N-CA	-7.60	1.36	1.46
3	K	628	ILE	CA-CB	-7.59	1.43	1.54
6	P	96	VAL	CA-C	-7.59	1.43	1.52
8	f	157	LEU	N-CA	-7.59	1.36	1.46
8	f	214	ALA	N-CA	-7.59	1.36	1.46
8	b	163	LYS	CA-C	-7.59	1.42	1.52
1	E	532	ASP	N-CA	-7.58	1.36	1.46
9	s	24	LEU	CA-CB	7.58	1.65	1.53
5	L	1469	VAL	N-CA	-7.58	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	746	ILE	N-CA	-7.58	1.37	1.46
8	e	117	ASP	N-CA	-7.58	1.36	1.46
3	K	343	LEU	CA-C	7.57	1.62	1.52
6	P	288	ASP	CA-CB	7.57	1.66	1.53
4	J	742	ARG	CA-C	-7.57	1.42	1.52
8	l	342	GLU	CA-CB	7.57	1.65	1.53
1	A	558	LEU	N-CA	-7.57	1.37	1.46
2	D	557	HIS	ND1-CE1	7.57	1.40	1.32
9	r	35	SER	C-N	7.56	1.43	1.33
5	L	1363	MET	CA-C	7.56	1.62	1.52
8	d	60	TYR	C-N	7.56	1.39	1.33
8	l	435	TYR	C-N	7.56	1.44	1.33
1	A	698	PHE	CA-C	-7.56	1.42	1.52
8	d	416	ASP	CA-C	-7.56	1.43	1.52
8	f	219	HIS	ND1-CE1	7.56	1.40	1.32
1	G	269	TYR	N-CA	-7.55	1.36	1.46
4	J	433	LEU	CA-C	-7.55	1.42	1.52
1	E	298	LEU	C-N	7.55	1.43	1.33
8	h	133	GLU	CA-C	-7.55	1.43	1.52
2	B	701	HIS	ND1-CE1	7.55	1.40	1.32
2	F	364	ARG	NE-CZ	7.54	1.41	1.33
8	b	261	ILE	N-CA	-7.54	1.40	1.45
2	S	109	ASN	CA-C	7.54	1.62	1.52
2	R	68	GLU	C-N	7.53	1.43	1.33
8	k	52	PHE	C-N	7.53	1.43	1.33
8	h	60	TYR	C-N	7.53	1.40	1.33
8	b	93	LEU	CA-C	-7.53	1.43	1.52
1	E	654	LEU	C-N	7.53	1.43	1.33
1	M	485	GLU	N-CA	-7.53	1.37	1.46
7	W	618	CYS	N-CA	-7.52	1.37	1.46
8	c	124	ARG	CD-NE	7.52	1.56	1.46
8	h	424	SER	C-N	7.52	1.44	1.33
8	n	243	LEU	CA-CB	7.52	1.63	1.53
5	L	1526	HIS	CA-C	-7.52	1.43	1.52
8	f	194	ARG	NE-CZ	7.51	1.41	1.33
2	D	501	PRO	N-CA	-7.51	1.38	1.47
8	a	308	GLY	N-CA	7.51	1.53	1.45
8	g	273	TYR	CA-C	-7.51	1.44	1.52
8	k	197	GLN	CA-C	-7.51	1.43	1.52
1	M	348	GLU	CA-C	-7.50	1.45	1.53
8	j	162	PRO	C-N	7.50	1.45	1.33
8	l	225	PHE	CA-C	-7.50	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	f	139	HIS	ND1-CE1	7.50	1.40	1.32
4	J	927	ARG	CD-NE	7.49	1.56	1.46
8	m	115	HIS	ND1-CE1	7.49	1.40	1.32
3	I	578	VAL	N-CA	-7.49	1.36	1.46
1	M	463	GLY	CA-C	-7.49	1.43	1.51
8	h	410	LYS	CA-C	-7.49	1.44	1.53
8	n	247	GLY	CA-C	-7.49	1.44	1.52
2	D	856	ILE	N-CA	-7.48	1.37	1.46
7	W	658	GLU	CA-C	7.48	1.62	1.52
8	h	372	ARG	N-CA	-7.48	1.36	1.46
4	J	326	PHE	C-N	7.47	1.41	1.33
8	j	8	LEU	CA-C	-7.47	1.44	1.53
1	E	364	GLY	CA-C	-7.47	1.43	1.52
8	a	372	ARG	CA-C	-7.47	1.44	1.52
5	L	478	CYS	CA-CB	7.46	1.65	1.53
1	C	256	LYS	N-CA	-7.46	1.36	1.46
3	I	449	TRP	CA-CB	7.45	1.65	1.53
8	h	90	ASN	CA-CB	7.45	1.64	1.54
8	i	117	ASP	CA-CB	7.45	1.66	1.53
3	K	647	ARG	NE-CZ	7.44	1.41	1.33
8	c	135	PHE	CA-C	-7.44	1.43	1.52
1	C	311	HIS	ND1-CE1	7.44	1.40	1.32
1	E	763	ARG	NE-CZ	7.44	1.41	1.33
2	F	299	LEU	CA-C	-7.44	1.42	1.52
2	D	802	ARG	CD-NE	7.43	1.56	1.46
8	c	344	LYS	CA-C	-7.43	1.42	1.52
8	e	324	ILE	N-CA	-7.43	1.37	1.46
3	I	305	ASP	C-N	7.43	1.43	1.33
8	l	401	ARG	NE-CZ	7.43	1.41	1.33
3	I	34	LEU	CA-C	-7.42	1.43	1.52
2	D	551	ASN	CA-C	-7.42	1.42	1.52
8	h	14	GLY	CA-C	7.42	1.62	1.51
4	J	456	LEU	CA-C	-7.42	1.43	1.52
8	b	296	ARG	CD-NE	7.42	1.56	1.46
9	o	49	ALA	CA-C	-7.42	1.43	1.52
8	l	29	HIS	CG-CD2	7.42	1.44	1.35
8	b	29	HIS	ND1-CE1	7.41	1.40	1.32
8	j	51	PHE	CA-CB	7.41	1.66	1.53
8	b	64	ALA	CA-C	-7.41	1.43	1.52
8	a	313	THR	C-N	7.41	1.44	1.33
1	A	517	HIS	CB-CG	7.40	1.60	1.50
1	A	747	PHE	N-CA	7.40	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	287	VAL	N-CA	-7.40	1.38	1.46
1	A	694	TYR	CA-C	-7.40	1.43	1.52
5	L	1387	PHE	N-CA	-7.40	1.37	1.46
3	K	59	ILE	N-CA	-7.40	1.37	1.46
8	f	358	VAL	C-N	7.40	1.42	1.33
4	J	216	ILE	CA-C	7.39	1.61	1.52
8	d	375	GLY	CA-C	-7.39	1.41	1.51
2	F	623	ARG	CA-C	-7.39	1.43	1.52
8	b	372	ARG	NE-CZ	7.39	1.41	1.33
8	l	12	GLN	CA-CB	7.39	1.65	1.53
8	h	362	ARG	CD-NE	7.38	1.56	1.46
3	I	503	HIS	ND1-CE1	7.38	1.40	1.32
8	i	49	ASP	CA-C	-7.38	1.43	1.52
8	d	359	ALA	CA-C	-7.38	1.43	1.52
1	M	229	GLY	N-CA	-7.38	1.34	1.45
1	A	370	GLN	CA-CB	7.38	1.66	1.53
2	N	275	LYS	CA-C	-7.38	1.43	1.52
8	k	59	HIS	ND1-CE1	7.38	1.40	1.32
2	D	342	HIS	ND1-CE1	7.38	1.40	1.32
2	F	411	ARG	NE-CZ	7.37	1.41	1.33
8	j	372	ARG	CZ-NH2	7.37	1.43	1.33
1	M	255	VAL	CA-C	-7.37	1.44	1.52
2	Q	105	ARG	NE-CZ	7.37	1.41	1.33
8	e	161	TYR	N-CA	7.37	1.54	1.46
1	M	729	LEU	C-N	7.37	1.44	1.33
2	N	509	GLY	C-N	7.36	1.43	1.33
2	D	674	TYR	C-N	7.36	1.43	1.33
8	f	348	PHE	N-CA	-7.36	1.36	1.45
1	C	654	LEU	CA-C	-7.36	1.42	1.52
2	D	460	HIS	C-O	-7.35	1.15	1.23
1	M	689	VAL	CA-C	7.35	1.62	1.52
8	d	79	ASN	N-CA	-7.35	1.37	1.46
8	l	250	ASN	CA-CB	7.35	1.64	1.53
8	d	356	ILE	N-CA	-7.35	1.36	1.46
8	n	344	LYS	CA-C	-7.35	1.44	1.53
8	j	78	LEU	C-N	7.34	1.43	1.33
8	g	56	ASP	N-CA	-7.34	1.40	1.47
8	b	372	ARG	C-N	7.34	1.43	1.33
8	k	306	SER	CA-C	-7.33	1.43	1.52
1	E	309	LEU	N-CA	-7.33	1.36	1.46
8	d	22	TRP	CA-CB	7.33	1.65	1.53
7	X	651	GLU	C-N	7.33	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	274	ARG	CD-NE	7.32	1.56	1.46
1	G	460	ARG	NE-CZ	7.32	1.41	1.33
8	j	49	ASP	C-N	7.32	1.42	1.33
1	A	733	LEU	N-CA	-7.32	1.36	1.46
1	C	842	LEU	CA-CB	7.32	1.65	1.53
3	I	320	PHE	N-CA	-7.32	1.37	1.46
8	i	344	LYS	N-CA	-7.32	1.36	1.46
5	L	366	SER	CA-CB	7.31	1.65	1.53
2	Q	19	ARG	CA-C	-7.31	1.43	1.52
8	e	414	PHE	CA-C	-7.31	1.42	1.53
8	g	381	HIS	ND1-CE1	7.31	1.39	1.32
8	j	182	VAL	C-N	7.31	1.41	1.33
8	n	66	LEU	CA-C	-7.31	1.44	1.52
5	L	583	CYS	C-N	7.31	1.41	1.33
2	D	311	SER	C-N	7.31	1.42	1.33
5	L	1390	LEU	CA-CB	7.31	1.65	1.53
2	O	63	VAL	CA-C	-7.31	1.44	1.52
2	F	704	HIS	CG-ND1	7.30	1.46	1.38
1	C	281	SER	CA-C	-7.30	1.44	1.52
1	C	671	SER	C-N	7.30	1.44	1.33
8	n	24	GLN	CA-C	-7.30	1.42	1.52
6	P	326	LYS	CA-C	-7.30	1.43	1.52
8	f	411	GLU	C-N	7.30	1.43	1.33
1	C	724	HIS	CB-CG	7.30	1.60	1.50
3	K	606	ARG	NE-CZ	7.30	1.41	1.33
8	m	220	ILE	CA-CB	-7.29	1.47	1.54
8	j	7	THR	CA-C	7.29	1.62	1.52
2	T	84	GLN	CA-CB	7.29	1.65	1.53
8	m	221	GLN	N-CA	-7.29	1.37	1.46
8	k	38	GLU	C-N	7.29	1.44	1.33
8	g	343	ARG	NE-CZ	7.28	1.41	1.33
8	l	362	ARG	CD-NE	7.28	1.56	1.46
2	F	445	PHE	CA-CB	7.28	1.64	1.53
6	P	162	THR	C-N	7.28	1.40	1.33
8	f	36	ILE	N-CA	-7.28	1.37	1.46
1	C	274	ARG	CD-NE	7.28	1.56	1.46
3	K	442	ARG	CD-NE	7.28	1.56	1.46
2	N	674	TYR	CA-CB	7.28	1.65	1.53
8	m	223	PRO	C-N	7.28	1.42	1.33
3	I	318	PRO	CA-CB	-7.27	1.43	1.53
8	d	365	PRO	C-N	7.27	1.42	1.33
2	D	651	PHE	CA-C	-7.26	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	750	HIS	ND1-CE1	7.26	1.39	1.32
8	j	331	THR	C-N	7.26	1.43	1.33
2	D	437	GLU	CA-CB	7.25	1.64	1.53
2	D	600	LEU	C-N	7.25	1.44	1.33
2	D	747	ILE	CA-CB	-7.25	1.44	1.54
6	P	320	LEU	N-CA	-7.25	1.36	1.46
1	M	714	SER	CA-CB	7.25	1.62	1.52
8	f	194	ARG	CZ-NH2	7.25	1.42	1.33
5	L	427	GLY	CA-C	-7.25	1.45	1.52
8	j	153	LEU	N-CA	-7.25	1.36	1.46
1	G	530	PHE	CA-CB	7.24	1.64	1.53
4	J	263	GLU	N-CA	-7.24	1.36	1.46
3	K	580	HIS	CE1-NE2	-7.24	1.25	1.32
8	h	296	ARG	CD-NE	7.24	1.56	1.46
1	C	854	MET	CA-C	-7.24	1.43	1.52
8	n	180	HIS	ND1-CE1	7.24	1.39	1.32
3	I	87	ARG	CD-NE	7.24	1.56	1.46
8	m	349	ILE	CA-C	-7.24	1.44	1.52
5	L	1469	VAL	CA-CB	-7.24	1.46	1.54
2	B	442	TYR	CA-C	-7.23	1.42	1.52
4	J	696	GLU	CA-CB	7.23	1.65	1.53
2	B	512	ALA	N-CA	7.23	1.55	1.46
4	J	413	SER	CA-CB	7.23	1.64	1.53
9	p	28	GLY	CA-C	7.23	1.61	1.51
8	a	286	ARG	CD-NE	7.23	1.56	1.46
2	N	753	PHE	CA-CB	7.23	1.64	1.53
3	K	470	VAL	CA-C	-7.22	1.44	1.52
8	c	380	ASN	CA-CB	7.22	1.61	1.52
8	d	130	ASP	N-CA	-7.22	1.36	1.46
5	L	1629	GLN	N-CA	-7.22	1.36	1.46
1	M	642	ARG	NE-CZ	7.22	1.41	1.33
1	C	559	ARG	NE-CZ	7.22	1.41	1.33
2	D	379	THR	N-CA	-7.22	1.36	1.46
8	b	22	TRP	NE1-CE2	-7.21	1.29	1.37
8	n	3	ARG	NE-CZ	7.21	1.41	1.33
3	K	305	ASP	CA-CB	7.21	1.64	1.53
8	b	237	SER	CA-CB	7.21	1.65	1.53
8	n	315	HIS	ND1-CE1	7.21	1.39	1.32
2	D	440	ASP	CA-CB	7.20	1.64	1.53
2	H	840	PRO	C-O	-7.20	1.15	1.24
8	k	224	SER	CA-C	-7.20	1.43	1.52
8	h	229	ASN	C-N	7.20	1.44	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	l	387	LEU	CA-C	-7.20	1.43	1.52
9	o	15	MET	C-N	7.19	1.43	1.33
2	H	641	TYR	CA-C	-7.19	1.43	1.53
8	k	351	TRP	NE1-CE2	-7.19	1.29	1.37
6	P	313	MET	CA-C	-7.19	1.42	1.52
2	D	400	HIS	N-CA	-7.19	1.36	1.46
7	U	635	ILE	CA-C	-7.18	1.44	1.52
8	l	207	ASN	CA-CB	7.18	1.64	1.53
2	D	873	ARG	C-N	7.18	1.43	1.34
8	c	97	GLY	C-N	7.18	1.41	1.33
1	A	494	ALA	CA-C	-7.18	1.43	1.52
1	G	243	ARG	NE-CZ	7.18	1.41	1.33
3	I	397	GLN	CA-CB	7.18	1.64	1.53
4	J	492	ARG	CD-NE	7.18	1.56	1.46
3	I	171	ALA	CA-C	-7.17	1.43	1.52
8	b	63	ARG	NE-CZ	7.17	1.41	1.33
9	r	49	ALA	C-N	7.17	1.43	1.33
2	H	726	LEU	C-N	7.17	1.44	1.33
2	O	93	ILE	CA-C	-7.17	1.44	1.52
7	U	612	ASP	C-N	7.17	1.43	1.33
2	Q	110	LYS	C-N	7.16	1.42	1.33
1	A	486	ARG	CZ-NH1	7.16	1.42	1.32
8	d	169	TYR	CA-C	-7.16	1.45	1.53
2	O	88	LYS	C-N	7.16	1.43	1.33
3	I	15	SER	CA-C	-7.16	1.42	1.52
5	L	238	PRO	C-N	7.16	1.42	1.33
4	J	218	HIS	ND1-CE1	7.15	1.39	1.32
3	K	35	HIS	ND1-CE1	7.15	1.39	1.32
8	g	29	HIS	CD2-NE2	-7.15	1.29	1.37
8	c	137	LEU	CA-C	-7.15	1.43	1.52
8	e	362	ARG	CA-C	-7.15	1.43	1.52
8	h	234	THR	C-N	7.15	1.42	1.33
1	M	428	ASP	N-CA	-7.15	1.37	1.46
7	V	639	GLU	CA-C	-7.15	1.43	1.52
1	A	555	GLU	CA-C	-7.14	1.42	1.52
8	m	289	THR	CA-C	-7.14	1.43	1.52
8	e	156	ARG	NE-CZ	7.14	1.40	1.33
8	i	164	LYS	C-N	7.14	1.43	1.33
2	F	680	TRP	NE1-CE2	7.13	1.45	1.37
2	H	338	LEU	N-CA	-7.13	1.36	1.46
2	H	622	VAL	C-O	-7.13	1.16	1.24
8	j	200	ASP	N-CA	-7.13	1.38	1.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	534	THR	CA-C	-7.12	1.43	1.52
2	F	249	LEU	CA-CB	7.12	1.65	1.53
2	F	274	TYR	CA-C	-7.12	1.44	1.52
2	H	485	ILE	CA-C	-7.12	1.43	1.52
8	n	362	ARG	N-CA	-7.12	1.37	1.45
8	a	356	ILE	CA-C	-7.12	1.45	1.52
3	I	276	ILE	C-N	7.11	1.42	1.33
8	g	295	ARG	CD-NE	7.11	1.56	1.46
8	a	197	GLN	CA-C	-7.11	1.44	1.52
3	I	463	HIS	N-CA	7.10	1.55	1.46
5	L	236	PRO	C-N	7.10	1.41	1.33
8	l	425	ARG	C-N	7.10	1.43	1.33
2	D	310	ARG	CA-C	-7.09	1.43	1.52
8	g	70	GLU	CA-C	-7.09	1.46	1.52
8	n	163	LYS	N-CA	7.09	1.54	1.46
2	B	843	ARG	NE-CZ	7.09	1.40	1.33
1	E	724	HIS	ND1-CE1	7.09	1.39	1.32
8	a	136	VAL	N-CA	-7.09	1.37	1.46
8	n	161	TYR	N-CA	-7.08	1.36	1.46
3	I	91	ARG	CA-CB	7.08	1.65	1.53
8	k	243	LEU	CA-C	-7.08	1.44	1.52
1	A	364	GLY	N-CA	-7.08	1.35	1.45
2	D	855	GLY	N-CA	7.08	1.55	1.45
2	H	342	HIS	ND1-CE1	7.08	1.39	1.32
2	F	562	ARG	CZ-NH2	7.08	1.42	1.33
2	D	259	GLY	C-N	-7.08	1.27	1.33
8	a	39	GLU	CA-CB	7.07	1.65	1.53
9	q	29	LEU	CA-C	-7.07	1.43	1.52
1	E	338	ALA	C-N	7.07	1.44	1.33
1	M	719	ASP	N-CA	-7.07	1.36	1.46
8	c	196	THR	CA-C	-7.07	1.44	1.53
8	k	156	ARG	CD-NE	7.07	1.56	1.46
1	A	455	TYR	CA-CB	7.06	1.65	1.53
9	t	58	ARG	NE-CZ	7.06	1.40	1.33
5	L	562	GLY	N-CA	7.06	1.55	1.45
1	A	296	ARG	CD-NE	7.06	1.56	1.46
8	f	95	GLU	CA-C	-7.06	1.43	1.52
2	D	704	HIS	ND1-CE1	7.06	1.39	1.32
1	M	682	ARG	NE-CZ	7.06	1.40	1.33
2	B	850	THR	CA-C	-7.05	1.42	1.52
3	K	148	ILE	CA-C	7.05	1.60	1.52
2	F	884	HIS	ND1-CE1	7.05	1.39	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	615	GLU	N-CA	-7.04	1.37	1.46
8	e	228	ILE	CA-CB	-7.04	1.46	1.54
8	k	346	ALA	CA-C	-7.04	1.44	1.52
1	E	529	HIS	CA-CB	7.04	1.64	1.53
5	L	538	ASP	N-CA	-7.04	1.36	1.46
8	f	317	TYR	N-CA	-7.04	1.36	1.45
8	j	357	GLN	CA-CB	7.04	1.63	1.53
1	G	240	ARG	CD-NE	7.04	1.56	1.46
1	M	698	PHE	N-CA	-7.04	1.37	1.46
2	N	863	LEU	CA-CB	7.04	1.65	1.53
8	f	167	GLN	N-CA	-7.04	1.37	1.46
8	f	194	ARG	CD-NE	7.04	1.56	1.46
8	f	171	VAL	CA-CB	-7.03	1.45	1.54
1	M	403	TYR	CA-C	-7.03	1.42	1.52
8	j	230	GLN	CA-CB	7.03	1.64	1.53
8	m	170	SER	N-CA	-7.03	1.37	1.46
2	F	497	HIS	ND1-CE1	7.02	1.39	1.32
8	h	115	HIS	ND1-CE1	7.02	1.39	1.32
6	P	95	ARG	C-N	7.02	1.40	1.33
8	d	407	GLN	CA-C	-7.02	1.43	1.52
9	o	24	LEU	CA-CB	7.01	1.64	1.53
7	W	668	ARG	NE-CZ	7.01	1.40	1.33
5	L	495	PHE	CA-CB	7.01	1.64	1.53
1	G	649	HIS	ND1-CE1	7.01	1.39	1.32
1	M	692	ILE	CA-C	7.00	1.62	1.52
1	A	380	LYS	C-N	7.00	1.44	1.33
2	N	484	LEU	N-CA	-7.00	1.37	1.46
8	b	334	HIS	ND1-CE1	7.00	1.39	1.32
8	e	201	CYS	N-CA	-7.00	1.36	1.45
8	e	404	PHE	CA-CB	7.00	1.65	1.53
8	d	90	ASN	C-N	7.00	1.42	1.33
8	i	119	PHE	C-N	6.99	1.42	1.33
8	n	15	ASN	CA-C	-6.99	1.43	1.52
2	F	520	GLU	CA-C	-6.99	1.43	1.52
4	J	322	ARG	CA-CB	6.99	1.64	1.53
2	N	440	ASP	N-CA	-6.99	1.37	1.46
8	c	198	ASN	CA-C	-6.99	1.43	1.52
2	H	670	LYS	C-N	6.99	1.43	1.33
4	J	500	HIS	CG-CD2	6.99	1.43	1.35
8	b	72	ARG	CA-C	-6.98	1.43	1.52
2	N	548	LEU	C-N	6.98	1.43	1.33
1	C	688	PHE	CA-C	-6.98	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	i	119	PHE	N-CA	-6.98	1.38	1.46
9	p	33	THR	N-CA	-6.98	1.38	1.46
3	K	304	GLU	N-CA	-6.98	1.38	1.46
2	B	427	ASN	N-CA	-6.97	1.36	1.46
8	i	201	CYS	C-N	6.97	1.43	1.33
2	B	544	LEU	CA-C	-6.97	1.43	1.52
8	f	50	VAL	N-CA	-6.97	1.37	1.46
8	d	37	VAL	CA-C	-6.97	1.45	1.52
8	l	335	LYS	CA-C	-6.97	1.43	1.52
2	D	757	ILE	CA-CB	-6.96	1.44	1.54
1	C	396	ARG	NE-CZ	6.96	1.40	1.33
8	d	202	VAL	CA-CB	-6.96	1.43	1.54
1	A	566	ASP	CA-CB	6.95	1.64	1.53
2	D	727	GLU	N-CA	-6.95	1.38	1.46
8	k	204	VAL	CA-C	-6.95	1.43	1.52
2	F	703	CYS	C-N	6.95	1.43	1.34
1	M	369	SER	CA-CB	6.95	1.65	1.53
8	m	15	ASN	CA-C	-6.95	1.43	1.52
8	i	315	HIS	ND1-CE1	6.95	1.39	1.32
8	c	297	LEU	CA-CB	6.94	1.64	1.53
8	f	380	ASN	CA-C	-6.94	1.46	1.53
8	j	337	LEU	CA-CB	6.94	1.65	1.53
8	k	303	VAL	CA-C	-6.94	1.43	1.52
2	F	565	LEU	C-N	6.94	1.43	1.33
8	h	75	HIS	CE1-NE2	6.94	1.39	1.32
2	H	650	VAL	N-CA	-6.93	1.40	1.46
5	L	114	GLU	CA-C	6.93	1.61	1.52
8	l	139	HIS	CD2-NE2	6.93	1.45	1.37
2	N	710	MET	C-N	6.93	1.42	1.33
8	c	96	HIS	ND1-CE1	6.93	1.39	1.32
6	P	156	GLY	CA-C	-6.93	1.42	1.51
8	l	330	PRO	CA-CB	6.93	1.60	1.53
2	O	25	GLU	C-N	6.93	1.42	1.33
2	D	745	HIS	ND1-CE1	6.92	1.39	1.32
8	k	164	LYS	CA-C	-6.92	1.44	1.52
1	M	763	ARG	NE-CZ	6.92	1.40	1.33
8	j	372	ARG	CD-NE	6.92	1.55	1.46
8	n	187	ASN	CA-CB	6.92	1.65	1.53
8	c	393	ARG	NE-CZ	6.91	1.40	1.33
1	M	759	ASN	CA-CB	6.91	1.64	1.53
1	C	506	GLU	C-N	6.91	1.43	1.33
2	D	494	GLN	C-N	6.91	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	699	VAL	N-CA	-6.90	1.37	1.46
3	K	26	GLN	CA-C	-6.90	1.44	1.52
5	L	1468	GLU	N-CA	-6.90	1.37	1.46
8	d	225	PHE	CA-CB	6.90	1.61	1.52
8	n	406	GLU	N-CA	-6.90	1.37	1.46
8	c	230	GLN	CA-C	-6.89	1.43	1.52
2	H	458	LEU	CA-C	-6.89	1.46	1.52
4	J	303	GLN	N-CA	-6.89	1.38	1.46
8	c	202	VAL	N-CA	-6.89	1.38	1.46
8	h	319	ALA	CA-C	-6.89	1.44	1.52
2	H	734	TRP	CA-C	-6.89	1.43	1.52
8	i	168	THR	CA-C	-6.89	1.44	1.52
8	c	157	LEU	CA-CB	6.88	1.65	1.53
8	m	141	ILE	CA-C	-6.88	1.44	1.52
8	i	428	VAL	CA-C	-6.88	1.43	1.52
4	J	973	GLU	C-N	6.88	1.44	1.33
1	A	287	VAL	CA-C	6.88	1.62	1.52
1	A	311	HIS	ND1-CE1	6.88	1.39	1.32
8	c	132	LEU	C-N	6.88	1.42	1.33
2	R	37	ARG	NE-CZ	6.88	1.40	1.33
3	I	151	CYS	N-CA	-6.88	1.37	1.46
3	K	36	PRO	CA-CB	6.88	1.63	1.53
8	m	309	ARG	NE-CZ	6.88	1.40	1.33
8	c	63	ARG	NE-CZ	6.87	1.40	1.33
8	c	238	ALA	N-CA	-6.87	1.37	1.46
2	H	847	ARG	NE-CZ	6.87	1.40	1.33
8	n	217	ARG	CD-NE	6.87	1.55	1.46
8	g	198	ASN	C-N	6.87	1.42	1.33
2	F	654	GLU	N-CA	-6.86	1.37	1.46
8	m	161	TYR	CA-CB	6.86	1.62	1.53
8	c	47	ARG	CZ-NH2	6.86	1.42	1.33
7	X	602	PHE	CA-C	-6.86	1.44	1.52
8	l	19	PHE	CA-CB	6.85	1.64	1.53
6	P	130	PRO	N-CA	-6.85	1.38	1.47
8	j	143	GLY	N-CA	6.85	1.51	1.45
4	J	1011	SER	CA-CB	6.85	1.65	1.53
8	f	412	ASP	CA-CB	6.85	1.64	1.53
8	g	220	ILE	C-N	6.85	1.43	1.33
1	A	411	HIS	ND1-CE1	6.84	1.39	1.32
2	H	554	LEU	CA-C	-6.84	1.44	1.52
8	h	371	HIS	CG-CD2	6.84	1.43	1.35
2	B	651	PHE	CA-C	-6.84	1.46	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	675	PHE	C-N	6.84	1.43	1.34
2	S	11	VAL	CA-CB	6.84	1.63	1.54
8	f	350	PRO	N-CA	-6.84	1.38	1.47
8	l	242	THR	N-CA	6.84	1.54	1.46
2	H	273	CYS	N-CA	-6.84	1.41	1.47
2	D	416	HIS	ND1-CE1	6.84	1.39	1.32
8	n	349	ILE	CA-CB	6.83	1.62	1.54
8	c	313	THR	C-N	6.83	1.43	1.33
1	E	466	VAL	C-N	6.83	1.43	1.33
1	E	857	ILE	N-CA	-6.83	1.38	1.46
2	O	62	PHE	N-CA	-6.83	1.38	1.46
8	a	265	ARG	CA-C	6.83	1.61	1.52
5	L	32	LYS	C-N	6.83	1.43	1.33
2	N	270	SER	C-N	6.83	1.43	1.33
8	c	396	ASP	CA-CB	6.83	1.64	1.53
2	F	266	LYS	CA-C	-6.83	1.43	1.52
2	T	40	GLY	C-N	6.83	1.42	1.33
2	D	869	ASP	CA-CB	6.83	1.65	1.53
2	N	497	HIS	ND1-CE1	6.83	1.39	1.32
1	E	553	LEU	C-N	6.83	1.42	1.33
5	L	460	ILE	N-CA	-6.83	1.37	1.46
1	A	719	ASP	CA-CB	6.82	1.64	1.53
1	M	527	PHE	N-CA	-6.82	1.38	1.46
1	A	211	SER	CA-CB	6.82	1.64	1.53
8	a	215	THR	CA-C	-6.82	1.43	1.52
2	F	328	HIS	CA-CB	6.81	1.64	1.53
8	d	13	CYS	C-N	6.81	1.42	1.33
2	B	365	ARG	CA-C	-6.81	1.44	1.52
2	H	831	ARG	NE-CZ	6.81	1.40	1.33
2	N	453	VAL	C-N	6.81	1.42	1.33
8	c	388	PHE	N-CA	-6.81	1.37	1.46
2	T	79	ARG	C-O	-6.80	1.16	1.24
8	k	217	ARG	NE-CZ	6.80	1.40	1.33
1	C	630	ASN	C-N	6.80	1.43	1.34
1	C	728	PHE	CA-CB	6.80	1.64	1.53
2	D	302	LYS	N-CA	-6.80	1.38	1.46
2	H	657	SER	CA-C	-6.80	1.43	1.52
1	A	400	ASN	C-N	6.80	1.41	1.33
1	A	860	ARG	N-CA	-6.80	1.38	1.46
8	h	153	LEU	C-N	6.80	1.43	1.33
1	G	694	TYR	CA-CB	6.79	1.63	1.53
8	f	171	VAL	CA-C	-6.79	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	j	180	HIS	CE1-NE2	6.79	1.39	1.32
2	F	802	ARG	CD-NE	6.79	1.55	1.46
8	k	84	ASN	C-N	6.79	1.43	1.33
5	L	473	TYR	CA-C	-6.79	1.44	1.52
2	B	851	HIS	ND1-CE1	6.78	1.39	1.32
8	b	10	LEU	C-N	6.78	1.40	1.32
2	D	460	HIS	CA-CB	6.78	1.63	1.53
2	F	708	SER	C-N	6.78	1.43	1.34
2	H	829	ASN	C-N	6.78	1.43	1.33
2	S	78	HIS	ND1-CE1	6.78	1.39	1.32
8	j	57	ASP	CA-C	-6.78	1.47	1.52
3	K	450	ALA	N-CA	-6.77	1.36	1.46
8	a	296	ARG	C-N	6.77	1.42	1.33
8	d	414	PHE	CA-C	-6.77	1.45	1.53
9	q	51	SER	CA-C	-6.77	1.44	1.52
2	F	466	ARG	NE-CZ	6.77	1.40	1.33
2	B	756	THR	CA-C	-6.77	1.43	1.52
8	k	231	LEU	CA-CB	6.77	1.64	1.53
8	m	377	MET	CA-C	-6.77	1.44	1.52
1	G	225	ILE	CA-CB	-6.77	1.46	1.54
4	J	916	LYS	CA-C	-6.77	1.45	1.52
2	N	409	TYR	N-CA	-6.77	1.38	1.46
8	l	110	GLN	C-N	6.77	1.43	1.33
1	G	452	THR	N-CA	-6.76	1.38	1.46
3	I	485	ARG	C-O	-6.76	1.15	1.24
8	f	318	ILE	N-CA	-6.76	1.38	1.46
8	g	74	ILE	C-N	6.76	1.43	1.33
1	C	347	GLY	CA-C	-6.76	1.44	1.52
8	a	66	LEU	C-N	6.76	1.43	1.33
8	l	93	LEU	CA-C	-6.76	1.44	1.52
1	M	563	ALA	CA-C	-6.76	1.43	1.53
8	h	413	ILE	CA-C	-6.76	1.44	1.52
2	H	668	ARG	CA-C	-6.75	1.43	1.52
7	W	620	ARG	NE-CZ	6.75	1.40	1.33
8	c	357	GLN	CA-C	-6.75	1.44	1.52
2	B	615	GLU	C-N	6.75	1.42	1.33
1	C	430	ARG	NE-CZ	6.75	1.40	1.33
2	B	685	CYS	CA-CB	6.75	1.64	1.53
1	G	763	ARG	C-N	6.75	1.42	1.33
3	I	295	ARG	CZ-NH1	6.75	1.42	1.32
3	I	310	GLU	CA-CB	6.75	1.63	1.53
4	J	957	LEU	C-N	6.75	1.43	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	m	324	ILE	CB-CG1	6.75	1.67	1.53
1	G	708	LEU	N-CA	6.75	1.54	1.46
3	I	363	LEU	CA-C	6.74	1.61	1.52
8	d	427	ILE	C-N	6.74	1.42	1.33
8	i	53	TYR	C-N	6.74	1.42	1.33
8	m	395	TYR	CA-C	-6.74	1.43	1.52
2	B	470	ILE	CA-C	-6.74	1.45	1.52
8	l	136	VAL	CA-C	-6.74	1.44	1.52
8	b	52	PHE	CA-C	-6.74	1.44	1.52
8	e	407	GLN	C-N	6.73	1.43	1.33
1	A	322	LYS	CA-CB	6.73	1.65	1.53
4	J	385	LYS	C-N	6.73	1.42	1.33
3	I	22	ARG	N-CA	-6.73	1.36	1.46
7	W	598	ILE	N-CA	-6.73	1.38	1.46
1	C	629	ILE	CA-C	-6.73	1.44	1.52
8	c	77	ILE	N-CA	-6.73	1.40	1.46
3	I	161	SER	CA-CB	6.73	1.65	1.53
5	L	410	ARG	CD-NE	6.73	1.55	1.46
8	c	161	TYR	N-CA	-6.73	1.39	1.46
8	k	415	LYS	C-N	6.73	1.42	1.33
8	c	115	HIS	ND1-CE1	6.72	1.39	1.32
9	s	59	ARG	CD-NE	6.72	1.55	1.46
2	F	780	GLN	CA-CB	6.72	1.64	1.53
5	L	224	ARG	CD-NE	6.72	1.55	1.46
8	m	79	ASN	C-N	6.72	1.41	1.33
3	I	482	LEU	CA-CB	6.72	1.64	1.53
2	H	699	VAL	CA-C	-6.72	1.44	1.52
2	N	539	ASP	CA-CB	6.72	1.64	1.53
8	g	139	HIS	CA-CB	6.72	1.64	1.53
8	i	57	ASP	C-N	6.72	1.41	1.33
8	i	160	ARG	CA-CB	6.71	1.63	1.54
1	E	829	SER	N-CA	-6.71	1.38	1.46
4	J	988	PHE	CA-CB	6.71	1.63	1.53
2	H	390	ARG	CZ-NH2	6.71	1.42	1.33
8	e	141	ILE	CA-CB	-6.71	1.45	1.54
8	m	296	ARG	NE-CZ	6.71	1.40	1.33
1	A	639	MET	N-CA	-6.71	1.38	1.46
2	N	310	ARG	CZ-NH2	6.71	1.42	1.33
8	g	167	GLN	C-O	-6.71	1.15	1.24
8	g	344	LYS	CA-C	-6.71	1.44	1.53
8	l	183	VAL	CA-C	-6.71	1.44	1.52
3	I	549	SER	N-CA	-6.71	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	c	301	LYS	CA-C	-6.71	1.43	1.52
4	J	797	SER	CA-C	-6.70	1.44	1.52
8	e	300	PRO	CA-CB	-6.70	1.49	1.53
8	h	276	LEU	CB-CG	6.70	1.66	1.53
8	n	67	LEU	CB-CG	6.70	1.66	1.53
3	K	495	TRP	CA-C	-6.70	1.44	1.52
1	C	310	GLU	CA-C	6.70	1.62	1.52
1	C	672	ALA	CA-C	-6.70	1.43	1.52
5	L	1558	VAL	C-N	6.70	1.42	1.33
8	l	180	HIS	CG-CD2	-6.70	1.28	1.35
8	m	226	SER	CA-CB	6.69	1.64	1.53
8	l	412	ASP	CA-CB	6.69	1.64	1.53
1	M	332	ARG	CD-NE	6.69	1.55	1.46
1	E	246	SER	CA-CB	6.69	1.62	1.53
8	m	29	HIS	CB-CG	6.69	1.59	1.50
8	e	124	ARG	NE-CZ	6.69	1.40	1.33
8	e	344	LYS	CA-C	6.69	1.61	1.53
8	d	188	SER	N-CA	-6.69	1.38	1.46
8	a	202	VAL	CA-CB	6.68	1.64	1.54
8	m	90	ASN	N-CA	-6.68	1.37	1.46
8	f	67	LEU	C-N	6.68	1.41	1.33
8	h	298	LEU	N-CA	-6.68	1.38	1.46
4	J	284	GLN	C-N	6.68	1.42	1.34
5	L	81	ILE	CA-C	-6.68	1.43	1.52
8	l	5	ILE	C-N	6.68	1.42	1.33
8	e	230	GLN	CA-C	-6.68	1.43	1.52
1	C	613	GLU	N-CA	-6.67	1.37	1.45
2	R	17	CYS	CA-C	-6.67	1.44	1.52
2	T	38	VAL	N-CA	-6.67	1.38	1.46
2	T	66	ARG	CD-NE	6.67	1.55	1.46
8	j	315	HIS	ND1-CE1	6.67	1.39	1.32
8	b	74	ILE	CA-C	-6.67	1.44	1.52
8	j	349	ILE	CA-C	-6.67	1.45	1.52
1	G	279	ASN	C-N	6.67	1.43	1.33
2	N	286	LEU	CA-C	-6.67	1.43	1.52
8	g	80	SER	CA-CB	6.67	1.63	1.53
8	l	254	ILE	CA-CB	-6.67	1.47	1.54
2	B	328	HIS	CE1-NE2	-6.67	1.25	1.32
1	E	636	ARG	CA-CB	6.67	1.64	1.53
3	K	84	ILE	CA-CB	-6.67	1.46	1.54
8	d	303	VAL	CA-C	6.67	1.61	1.52
8	d	124	ARG	CD-NE	6.66	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	511	HIS	ND1-CE1	6.66	1.39	1.32
2	F	701	HIS	ND1-CE1	6.66	1.39	1.32
1	G	452	THR	CA-C	-6.66	1.44	1.52
4	J	431	HIS	ND1-CE1	6.66	1.39	1.32
7	U	648	SER	CA-CB	6.66	1.64	1.53
8	h	59	HIS	CE1-NE2	-6.66	1.25	1.32
8	m	232	VAL	CA-CB	-6.66	1.45	1.54
2	B	282	VAL	N-CA	-6.66	1.38	1.46
2	H	805	PHE	CA-C	-6.66	1.43	1.52
4	J	568	LEU	CA-CB	6.66	1.64	1.53
9	t	27	THR	N-CA	-6.66	1.37	1.46
2	H	622	VAL	N-CA	-6.66	1.38	1.46
2	H	511	SER	C-N	6.65	1.42	1.33
6	P	216	LEU	CA-C	-6.65	1.43	1.52
8	i	318	ILE	CA-C	-6.65	1.46	1.52
8	f	116	GLU	N-CA	-6.65	1.38	1.46
2	D	615	GLU	C-N	6.65	1.39	1.33
1	M	559	ARG	CD-NE	6.65	1.55	1.46
8	a	402	GLU	CA-C	-6.65	1.44	1.53
2	H	842	MET	CA-C	-6.65	1.44	1.52
2	S	79	ARG	CA-C	-6.65	1.44	1.52
8	d	102	ASN	CA-CB	6.65	1.61	1.52
6	P	182	GLY	CA-C	-6.64	1.43	1.51
2	S	89	ASN	CA-CB	6.64	1.64	1.53
8	g	390	ARG	NE-CZ	6.64	1.40	1.33
8	l	320	ILE	CA-C	-6.64	1.44	1.52
2	F	312	LEU	CA-C	-6.64	1.44	1.52
8	e	297	LEU	C-N	6.64	1.41	1.33
1	M	684	ARG	NE-CZ	6.64	1.40	1.33
2	N	503	SER	CA-C	-6.64	1.44	1.52
4	J	942	VAL	CA-C	-6.64	1.45	1.52
3	K	57	GLU	CA-C	-6.64	1.43	1.52
1	M	717	ASN	CA-CB	6.64	1.64	1.53
8	i	115	HIS	CB-CG	-6.64	1.40	1.50
1	A	428	ASP	N-CA	-6.63	1.37	1.46
2	B	760	ARG	C-N	6.63	1.42	1.33
2	D	400	HIS	CD2-NE2	6.63	1.45	1.37
2	F	580	LEU	N-CA	6.63	1.54	1.46
9	q	44	GLY	C-N	6.63	1.41	1.33
5	L	590	HIS	ND1-CE1	6.63	1.39	1.32
1	M	610	SER	CA-C	-6.63	1.44	1.52
2	N	596	LEU	CA-C	-6.63	1.43	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	m	272	GLY	CA-C	-6.63	1.44	1.51
2	D	507	ALA	CA-C	-6.63	1.44	1.52
6	P	163	VAL	CA-CB	6.62	1.60	1.53
8	d	407	GLN	N-CA	6.62	1.54	1.46
1	C	361	ARG	CZ-NH2	6.62	1.42	1.33
2	F	480	ARG	NE-CZ	6.62	1.40	1.33
3	I	149	HIS	CA-C	6.62	1.60	1.52
1	M	496	LYS	C-N	6.62	1.42	1.33
1	A	746	ILE	C-O	-6.62	1.16	1.24
8	e	265	ARG	CZ-NH1	6.62	1.42	1.32
2	F	494	GLN	N-CA	-6.62	1.38	1.46
8	g	51	PHE	CA-CB	6.62	1.63	1.53
1	A	237	LEU	CA-C	-6.61	1.44	1.52
1	C	866	PHE	CA-CB	6.61	1.64	1.53
8	b	351	TRP	CA-CB	6.61	1.61	1.53
8	b	136	VAL	CA-CB	6.61	1.62	1.54
2	H	647	ILE	C-N	6.61	1.42	1.33
8	g	224	SER	C-N	6.61	1.42	1.33
8	a	32	SER	CA-CB	-6.61	1.44	1.53
8	k	401	ARG	C-N	6.61	1.43	1.33
1	E	763	ARG	CZ-NH2	6.60	1.42	1.33
2	H	863	LEU	CA-CB	6.60	1.65	1.53
8	b	126	ALA	CA-CB	6.60	1.62	1.53
8	i	21	PHE	CA-CB	6.60	1.63	1.53
8	m	380	ASN	CA-CB	6.60	1.61	1.52
8	j	280	GLN	C-N	6.60	1.42	1.33
2	F	314	ARG	NE-CZ	6.60	1.40	1.33
2	F	798	GLU	CA-C	-6.60	1.43	1.52
8	h	299	GLN	N-CA	-6.60	1.35	1.46
8	n	194	ARG	NE-CZ	6.60	1.40	1.33
9	s	12	ARG	CZ-NH1	6.60	1.42	1.32
8	b	319	ALA	N-CA	6.59	1.54	1.46
8	i	150	GLY	C-N	6.59	1.43	1.33
9	s	61	SER	N-CA	-6.59	1.38	1.46
9	p	59	ARG	CD-NE	6.59	1.55	1.46
7	U	640	ILE	C-N	6.59	1.42	1.33
8	d	208	THR	N-CA	-6.59	1.37	1.46
8	e	322	ASN	C-N	6.59	1.42	1.33
8	g	373	VAL	CA-CB	6.59	1.61	1.53
8	i	362	ARG	CD-NE	6.59	1.55	1.46
2	B	855	GLY	CA-C	-6.59	1.42	1.51
2	R	75	SER	CA-CB	6.59	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	486	ARG	CA-C	-6.59	1.44	1.52
8	a	422	ASP	CA-C	-6.59	1.44	1.52
3	K	46	CYS	CA-CB	6.59	1.64	1.53
8	h	34	GLU	C-N	6.59	1.39	1.33
2	D	308	ASP	CA-C	-6.58	1.44	1.52
2	H	398	ALA	CA-CB	6.58	1.64	1.53
3	K	258	SER	CA-CB	6.58	1.64	1.53
3	K	523	LEU	CA-C	-6.58	1.44	1.52
8	i	286	ARG	CD-NE	6.58	1.55	1.46
2	H	471	PRO	C-N	6.58	1.42	1.33
2	H	760	ARG	NE-CZ	6.58	1.40	1.33
8	i	268	PHE	CA-CB	6.58	1.61	1.53
2	H	429	LEU	C-N	6.58	1.43	1.33
4	J	953	LEU	C-N	6.58	1.43	1.33
8	d	48	LYS	CA-C	-6.58	1.43	1.52
8	l	339	ARG	NE-CZ	6.58	1.40	1.33
1	M	340	ILE	CA-C	-6.58	1.44	1.52
2	S	108	PRO	C-N	6.58	1.42	1.33
1	G	217	VAL	C-N	6.58	1.42	1.33
4	J	984	ASN	CA-CB	6.58	1.63	1.53
1	C	445	VAL	N-CA	6.57	1.54	1.46
2	H	613	ASN	CA-C	-6.57	1.44	1.52
4	J	890	ASN	CA-C	-6.57	1.44	1.52
3	K	22	ARG	CD-NE	6.57	1.55	1.46
3	K	19	TRP	N-CA	-6.57	1.38	1.46
8	a	267	HIS	CG-CD2	6.57	1.43	1.35
8	l	346	ALA	CA-C	-6.57	1.44	1.52
6	P	161	HIS	CA-C	-6.57	1.44	1.52
8	l	283	ALA	N-CA	-6.57	1.40	1.46
2	Q	109	ASN	CA-C	6.57	1.61	1.52
3	K	367	GLU	CA-CB	6.57	1.64	1.53
2	T	59	LYS	N-CA	-6.57	1.38	1.46
8	h	202	VAL	CA-C	-6.57	1.45	1.52
3	I	609	GLY	CA-C	-6.56	1.44	1.52
2	D	280	VAL	N-CA	-6.56	1.38	1.46
4	J	833	LEU	CA-C	-6.56	1.43	1.52
9	q	38	VAL	C-N	6.56	1.42	1.33
1	C	253	SER	CA-CB	6.56	1.62	1.53
1	C	460	ARG	NE-CZ	6.56	1.40	1.33
6	P	290	ARG	NE-CZ	6.56	1.40	1.33
8	i	250	ASN	CA-C	-6.56	1.47	1.53
8	l	399	ARG	CD-NE	6.56	1.55	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	747	ILE	N-CA	-6.55	1.37	1.46
2	B	388	GLN	CA-C	6.55	1.61	1.52
4	J	554	GLN	CA-C	-6.55	1.43	1.52
8	c	319	ALA	N-CA	-6.55	1.38	1.46
8	k	132	LEU	CA-CB	6.55	1.62	1.53
8	b	111	GLY	C-N	6.55	1.42	1.33
2	H	448	ALA	N-CA	-6.55	1.38	1.46
2	H	578	ASP	CA-C	-6.55	1.44	1.52
4	J	422	ASP	CA-CB	6.55	1.64	1.53
8	b	161	TYR	N-CA	6.54	1.52	1.46
8	i	216	ASP	CA-C	-6.54	1.43	1.52
4	J	676	GLN	N-CA	-6.54	1.37	1.46
2	F	578	ASP	CA-CB	6.54	1.63	1.53
8	c	11	GLY	CA-C	-6.54	1.43	1.52
1	A	330	THR	C-N	6.54	1.43	1.34
2	D	574	ARG	NE-CZ	6.54	1.40	1.33
2	S	73	LEU	N-CA	6.54	1.54	1.46
8	c	369	SER	CA-C	6.54	1.58	1.52
3	K	36	PRO	C-N	6.54	1.43	1.33
8	e	9	GLN	CA-CB	6.54	1.63	1.53
8	e	304	MET	CA-CB	6.54	1.62	1.53
2	N	778	PHE	CA-CB	6.53	1.64	1.53
1	C	344	LEU	CA-C	-6.53	1.43	1.52
1	G	264	PRO	N-CD	-6.53	1.38	1.47
2	N	701	HIS	ND1-CE1	6.53	1.39	1.32
2	F	414	VAL	C-N	6.53	1.43	1.34
2	N	764	ASP	CA-C	-6.53	1.44	1.52
8	b	306	SER	C-N	6.53	1.41	1.33
8	f	272	GLY	C-N	6.53	1.41	1.33
2	F	666	LEU	N-CA	-6.53	1.37	1.46
2	D	769	ALA	CA-C	-6.52	1.44	1.52
3	K	560	HIS	ND1-CE1	6.52	1.39	1.32
8	h	7	THR	C-N	6.52	1.41	1.33
2	N	841	LYS	CA-C	-6.52	1.43	1.52
6	P	110	LEU	CA-C	-6.52	1.47	1.52
8	e	280	GLN	C-N	6.52	1.43	1.33
8	g	408	PHE	CA-CB	6.51	1.64	1.53
1	G	288	ASN	CA-C	-6.51	1.43	1.52
5	L	108	ASP	CA-CB	6.51	1.62	1.53
8	j	398	LEU	CA-C	-6.51	1.43	1.52
3	K	331	ARG	C-N	6.50	1.41	1.34
8	f	200	ASP	N-CA	-6.50	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	401	ASP	CA-CB	6.50	1.63	1.53
8	j	417	ASN	CA-C	-6.50	1.44	1.52
1	C	529	HIS	ND1-CE1	6.50	1.39	1.32
2	F	455	THR	C-N	6.50	1.42	1.33
2	H	378	LYS	CA-C	-6.50	1.43	1.52
2	N	497	HIS	CD2-NE2	6.50	1.45	1.37
8	b	390	ARG	CD-NE	6.50	1.55	1.46
6	P	367	PRO	CA-C	6.50	1.61	1.52
7	X	648	SER	CA-C	-6.50	1.44	1.52
8	j	219	HIS	CE1-NE2	-6.50	1.26	1.32
2	F	667	TRP	CA-CB	6.50	1.63	1.53
8	b	178	MET	N-CA	-6.50	1.38	1.46
8	f	96	HIS	C-N	6.50	1.41	1.33
8	h	160	ARG	CD-NE	6.49	1.55	1.46
4	J	843	ASN	C-N	6.49	1.42	1.33
2	N	249	LEU	N-CA	6.49	1.54	1.46
8	e	27	ALA	C-N	6.48	1.43	1.33
8	d	53	TYR	CA-C	-6.48	1.45	1.52
1	A	616	SER	CA-C	-6.48	1.44	1.52
1	C	859	TYR	CA-CB	6.48	1.63	1.53
2	N	742	ASP	CA-C	-6.48	1.44	1.53
8	l	68	ASP	C-N	6.48	1.42	1.33
1	G	835	LEU	C-N	6.48	1.43	1.34
5	L	1685	PHE	CA-C	-6.48	1.44	1.52
8	b	223	PRO	N-CA	-6.48	1.39	1.47
8	n	396	ASP	N-CA	-6.48	1.37	1.46
2	H	517	ASP	C-N	6.48	1.42	1.33
7	U	670	ASN	CA-C	-6.48	1.43	1.52
5	L	459	THR	C-N	6.47	1.39	1.33
8	b	110	GLN	CA-C	-6.47	1.43	1.52
1	G	740	ASN	CA-CB	6.47	1.63	1.53
8	c	315	HIS	CD2-NE2	6.47	1.45	1.37
8	g	413	ILE	CA-C	-6.47	1.45	1.52
2	H	700	LEU	C-N	6.47	1.43	1.33
2	H	753	PHE	CA-C	-6.47	1.44	1.52
2	B	293	LEU	N-CA	-6.47	1.37	1.46
2	B	671	ARG	CA-C	-6.47	1.44	1.52
2	B	727	GLU	CA-C	-6.46	1.44	1.52
3	I	295	ARG	CZ-NH2	6.46	1.41	1.33
3	I	551	ARG	CZ-NH2	6.46	1.41	1.33
4	J	756	GLN	C-N	6.46	1.42	1.33
3	K	96	ILE	N-CA	-6.46	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	529	TYR	CA-C	-6.46	1.45	1.53
8	j	377	MET	CA-C	-6.46	1.45	1.52
2	B	484	LEU	C-N	6.46	1.42	1.33
8	h	194	ARG	CD-NE	6.46	1.55	1.46
3	I	100	TYR	CA-CB	6.46	1.63	1.53
5	L	213	ARG	NE-CZ	6.46	1.40	1.33
8	m	44	GLY	C-N	6.46	1.42	1.33
2	O	20	ILE	CA-CB	-6.46	1.46	1.54
8	m	86	TYR	C-N	6.46	1.44	1.33
1	C	332	ARG	N-CA	6.46	1.54	1.46
2	N	683	HIS	CE1-NE2	-6.46	1.26	1.32
8	h	3	ARG	CZ-NH1	6.46	1.41	1.32
8	f	42	THR	CA-C	6.45	1.60	1.52
2	F	661	ARG	CD-NE	6.45	1.55	1.46
8	m	97	GLY	C-N	6.45	1.38	1.33
1	E	311	HIS	ND1-CE1	6.45	1.39	1.32
2	H	318	LEU	N-CA	-6.45	1.37	1.46
2	B	768	ARG	CD-NE	6.45	1.55	1.46
2	F	736	LYS	N-CA	-6.45	1.37	1.46
8	c	295	ARG	NE-CZ	6.45	1.40	1.33
8	c	303	VAL	CA-CB	6.45	1.61	1.54
8	c	356	ILE	N-CA	-6.45	1.38	1.46
1	C	410	GLU	C-N	6.45	1.42	1.33
1	A	758	THR	C-N	6.45	1.42	1.33
2	D	257	PHE	CA-C	-6.45	1.44	1.52
1	G	689	VAL	CA-C	-6.44	1.43	1.52
4	J	456	LEU	N-CA	6.44	1.54	1.46
8	m	318	ILE	CA-C	-6.44	1.46	1.52
8	j	271	THR	C-N	6.44	1.41	1.32
8	l	8	LEU	CA-C	-6.44	1.45	1.53
5	L	382	GLN	C-N	6.44	1.42	1.33
6	P	168	GLY	C-N	6.44	1.42	1.33
2	F	416	HIS	CD2-NE2	6.44	1.45	1.37
1	C	708	LEU	C-N	6.43	1.42	1.33
1	G	396	ARG	CD-NE	6.43	1.55	1.46
8	d	381	HIS	ND1-CE1	6.43	1.39	1.32
8	m	313	THR	N-CA	-6.43	1.37	1.46
1	E	674	TRP	CA-C	-6.43	1.44	1.52
2	H	772	ASN	CA-CB	6.43	1.63	1.53
2	S	12	LEU	CA-CB	6.43	1.63	1.53
1	A	361	ARG	NE-CZ	6.43	1.40	1.33
8	i	337	LEU	C-O	-6.43	1.15	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	n	54	GLN	CA-C	-6.43	1.44	1.52
2	B	725	VAL	C-N	6.43	1.42	1.34
8	f	262	PRO	CA-C	-6.43	1.43	1.52
3	I	154	LEU	N-CA	-6.42	1.38	1.46
8	d	398	LEU	C-N	6.42	1.43	1.33
8	d	362	ARG	CA-CB	6.42	1.62	1.53
2	B	262	GLY	C-N	6.42	1.42	1.33
2	N	873	ARG	CA-C	-6.42	1.44	1.52
6	P	95	ARG	CA-C	-6.42	1.44	1.52
8	a	7	THR	CA-C	-6.42	1.44	1.52
8	g	59	HIS	CE1-NE2	6.42	1.39	1.32
8	i	315	HIS	CD2-NE2	6.42	1.45	1.37
9	s	13	GLU	CA-CB	6.42	1.63	1.53
1	E	265	VAL	C-N	6.42	1.43	1.33
2	N	878	ARG	NE-CZ	6.42	1.40	1.33
8	i	377	MET	CA-C	-6.42	1.45	1.52
8	g	412	ASP	N-CA	-6.41	1.38	1.46
1	E	314	ARG	CD-NE	6.41	1.55	1.46
5	L	443	TYR	CA-CB	6.41	1.64	1.53
2	H	812	ARG	NE-CZ	6.41	1.40	1.33
8	a	85	LEU	CA-C	-6.41	1.44	1.52
8	b	78	LEU	CA-C	-6.41	1.44	1.52
1	A	759	ASN	CA-C	-6.41	1.44	1.52
1	C	395	TYR	CA-C	-6.41	1.45	1.53
4	J	719	ARG	CZ-NH1	6.41	1.41	1.32
5	L	1374	HIS	CD2-NE2	6.41	1.44	1.37
8	n	88	PRO	CA-CB	6.41	1.62	1.53
8	e	366	TYR	N-CA	-6.40	1.38	1.46
2	D	306	TYR	CA-CB	6.40	1.64	1.53
2	N	616	ILE	CA-CB	-6.40	1.46	1.54
1	C	618	ASP	N-CA	-6.40	1.38	1.46
2	O	54	VAL	C-N	6.40	1.42	1.33
8	d	202	VAL	C-N	6.40	1.41	1.33
8	c	180	HIS	CE1-NE2	6.40	1.39	1.32
8	e	211	ASN	CA-C	-6.40	1.43	1.52
8	m	139	HIS	CA-C	-6.40	1.44	1.52
8	m	294	MET	CA-C	-6.40	1.45	1.52
2	H	678	ASP	C-N	6.40	1.41	1.33
1	G	260	ASN	CA-C	-6.39	1.43	1.52
2	H	527	ASN	CA-C	-6.39	1.43	1.52
4	J	481	LEU	CA-C	-6.39	1.44	1.52
8	j	259	SER	N-CA	-6.39	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	k	407	GLN	CA-C	-6.39	1.44	1.52
1	G	649	HIS	CA-C	-6.38	1.44	1.52
1	G	645	PHE	CA-C	-6.38	1.44	1.52
6	P	83	GLU	CA-CB	6.38	1.63	1.53
1	E	559	ARG	CZ-NH2	6.38	1.41	1.33
5	L	510	LEU	CA-C	-6.38	1.43	1.52
7	V	639	GLU	C-N	6.38	1.42	1.33
8	a	87	ASN	N-CA	-6.38	1.41	1.46
8	c	127	ASP	CA-CB	6.38	1.62	1.53
8	j	273	TYR	CA-C	-6.38	1.45	1.52
8	d	265	ARG	NE-CZ	6.38	1.40	1.33
1	G	354	THR	CA-C	-6.38	1.44	1.52
8	c	124	ARG	CZ-NH1	6.38	1.41	1.32
4	J	483	ASP	N-CA	-6.38	1.37	1.46
1	A	392	ARG	NE-CZ	6.37	1.40	1.33
5	L	1521	ARG	CD-NE	6.37	1.55	1.46
8	n	184	GLN	N-CA	-6.37	1.39	1.46
2	D	615	GLU	CA-CB	6.37	1.60	1.52
2	F	732	GLU	N-CA	-6.37	1.38	1.46
8	f	332	GLN	CA-CB	6.37	1.62	1.53
3	K	650	TYR	CA-CB	6.37	1.64	1.53
8	m	82	TYR	CA-CB	6.37	1.65	1.53
8	a	334	HIS	CG-ND1	6.37	1.45	1.38
1	E	248	GLU	CA-C	-6.37	1.44	1.52
1	G	656	ASN	N-CA	-6.37	1.37	1.46
8	e	89	GLU	N-CA	-6.37	1.41	1.47
8	n	192	LEU	CA-C	-6.37	1.44	1.52
2	S	66	ARG	CA-C	-6.36	1.45	1.53
8	e	45	THR	CA-C	-6.36	1.44	1.52
8	e	319	ALA	N-CA	-6.36	1.38	1.46
2	B	304	LYS	CA-C	-6.36	1.44	1.52
1	M	614	SER	CA-C	6.36	1.58	1.52
2	Q	53	LEU	C-N	6.36	1.42	1.33
8	d	51	PHE	CA-C	6.36	1.60	1.52
8	n	55	ALA	CA-C	-6.36	1.45	1.52
2	H	840	PRO	N-CD	-6.36	1.38	1.47
1	M	574	ILE	C-N	6.36	1.41	1.33
8	c	74	ILE	C-N	6.36	1.43	1.33
8	g	355	SER	CA-C	-6.36	1.44	1.52
8	h	16	GLN	N-CA	-6.36	1.38	1.46
8	j	267	HIS	CG-CD2	6.36	1.42	1.35
2	F	516	LYS	CA-CB	6.36	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	130	HIS	ND1-CE1	6.36	1.39	1.32
8	b	278	THR	CA-C	-6.36	1.45	1.52
9	t	31	MET	N-CA	-6.36	1.38	1.46
2	H	715	HIS	ND1-CE1	6.35	1.39	1.32
1	G	478	LEU	N-CA	-6.35	1.37	1.46
8	c	284	SER	C-N	6.35	1.42	1.34
8	m	311	ARG	CZ-NH2	6.35	1.41	1.33
2	D	347	VAL	N-CA	-6.35	1.38	1.46
3	I	387	VAL	N-CA	-6.35	1.38	1.46
2	N	637	PHE	CA-C	-6.35	1.44	1.52
8	b	264	PRO	C-N	6.35	1.42	1.33
2	D	336	ARG	NE-CZ	6.35	1.40	1.33
1	E	396	ARG	CA-CB	6.35	1.64	1.53
1	M	752	SER	CA-C	6.35	1.61	1.52
1	C	631	ARG	CZ-NH2	6.35	1.41	1.33
9	s	37	CYS	C-N	6.35	1.41	1.33
1	A	216	LEU	C-N	6.35	1.41	1.33
2	B	734	TRP	NE1-CE2	-6.34	1.30	1.37
7	U	624	ASN	N-CA	-6.34	1.38	1.46
8	i	320	ILE	CA-CB	-6.34	1.46	1.54
8	j	172	PHE	CA-C	-6.34	1.45	1.52
8	l	432	ILE	CA-C	-6.34	1.44	1.52
1	G	745	LYS	CA-C	-6.34	1.44	1.52
1	M	466	VAL	CA-CB	-6.34	1.46	1.54
8	m	114	ILE	N-CA	-6.34	1.38	1.46
1	A	491	TYR	CA-CB	6.34	1.63	1.53
5	L	607	LEU	C-N	6.34	1.42	1.33
2	N	585	VAL	N-CA	6.34	1.54	1.46
8	c	369	SER	C-O	-6.34	1.19	1.23
8	e	31	ILE	CA-CB	-6.34	1.46	1.55
8	n	424	SER	CA-C	-6.34	1.44	1.52
8	e	272	GLY	CA-C	-6.33	1.43	1.51
2	D	764	ASP	C-N	6.33	1.42	1.34
8	a	104	TRP	CA-CB	6.33	1.63	1.53
8	h	424	SER	CA-C	6.33	1.61	1.52
8	h	201	CYS	C-N	6.33	1.42	1.33
4	J	251	PRO	CA-C	-6.33	1.46	1.53
3	K	194	GLY	CA-C	-6.33	1.43	1.51
2	N	778	PHE	C-N	6.33	1.43	1.33
8	f	417	ASN	CA-C	6.33	1.61	1.52
8	b	315	HIS	CD2-NE2	6.33	1.44	1.37
8	n	27	ALA	N-CA	-6.33	1.37	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	466	ARG	C-N	6.33	1.42	1.34
7	V	626	GLN	N-CA	-6.33	1.38	1.46
8	n	289	THR	CA-C	-6.33	1.45	1.52
2	F	643	VAL	CA-C	-6.32	1.45	1.52
1	M	629	ILE	CA-C	-6.32	1.44	1.52
8	a	371	HIS	N-CA	-6.32	1.38	1.46
8	i	382	THR	CA-CB	6.32	1.62	1.53
8	j	364	SER	C-N	6.32	1.41	1.33
8	d	260	LEU	C-N	6.32	1.40	1.33
2	D	591	LEU	CA-CB	6.32	1.65	1.53
2	F	658	HIS	ND1-CE1	6.32	1.38	1.32
5	L	1622	LEU	CA-C	-6.32	1.44	1.52
8	m	182	VAL	C-N	6.32	1.40	1.33
1	G	262	ILE	C-O	-6.32	1.17	1.24
2	H	630	GLY	C-N	6.32	1.42	1.33
1	E	684	ARG	CA-C	-6.32	1.44	1.52
2	H	412	SER	CA-C	-6.32	1.44	1.52
3	I	302	ASN	CA-CB	6.32	1.61	1.53
8	c	44	GLY	CA-C	-6.32	1.43	1.51
8	i	161	TYR	CA-CB	6.32	1.63	1.53
9	t	41	CYS	C-N	6.32	1.42	1.34
1	E	400	ASN	CA-CB	6.32	1.64	1.53
1	M	513	ARG	CZ-NH1	6.32	1.41	1.32
8	k	65	VAL	C-N	6.32	1.42	1.33
2	H	584	LEU	C-N	6.31	1.40	1.34
8	f	358	VAL	CA-C	-6.31	1.45	1.52
8	b	180	HIS	ND1-CE1	6.31	1.38	1.32
8	k	6	ILE	C-N	6.31	1.42	1.33
8	k	411	GLU	CA-CB	6.31	1.63	1.53
1	C	346	LYS	CA-C	-6.31	1.44	1.52
1	E	361	ARG	CZ-NH1	6.31	1.41	1.32
8	c	355	SER	C-O	-6.31	1.16	1.23
8	i	365	PRO	CA-CB	6.31	1.62	1.53
8	k	72	ARG	NE-CZ	6.31	1.40	1.33
8	n	297	LEU	CA-C	-6.31	1.44	1.52
1	E	359	HIS	ND1-CE1	6.31	1.38	1.32
8	k	339	ARG	NE-CZ	6.31	1.40	1.33
8	i	123	ASP	C-N	6.31	1.42	1.33
8	n	415	LYS	CA-C	-6.31	1.44	1.52
2	D	788	GLN	CA-C	-6.30	1.44	1.52
5	L	1516	MET	CA-CB	6.30	1.63	1.53
1	M	655	CYS	C-O	-6.30	1.16	1.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	d	188	SER	C-N	6.30	1.42	1.33
2	B	443	HIS	CA-C	-6.30	1.47	1.53
1	M	346	LYS	CA-C	-6.30	1.46	1.53
2	H	849	LEU	CA-CB	6.30	1.63	1.53
3	I	449	TRP	NE1-CE2	-6.30	1.30	1.37
8	k	332	GLN	CA-CB	6.30	1.62	1.53
3	K	360	PHE	N-CA	-6.30	1.38	1.46
8	g	162	PRO	CA-CB	6.30	1.62	1.53
8	h	383	ASN	C-N	6.30	1.40	1.34
3	K	192	LEU	C-N	6.30	1.42	1.33
5	L	87	GLU	N-CA	-6.30	1.38	1.46
8	l	301	LYS	CA-CB	6.30	1.64	1.53
2	O	80	LYS	N-CA	-6.29	1.38	1.46
1	A	620	ILE	N-CA	-6.29	1.38	1.46
3	K	306	THR	C-O	-6.29	1.16	1.24
2	B	388	GLN	CA-CB	6.29	1.64	1.53
3	K	318	PRO	C-N	6.29	1.42	1.33
8	h	343	ARG	NE-CZ	6.29	1.40	1.33
8	i	89	GLU	N-CA	-6.29	1.38	1.46
1	C	219	ASP	N-CA	-6.29	1.38	1.46
1	G	705	TRP	NE1-CE2	6.29	1.44	1.37
1	M	524	GLY	C-N	6.29	1.41	1.33
8	k	94	SER	CA-C	-6.29	1.44	1.53
1	C	323	LEU	CA-C	-6.28	1.44	1.52
2	F	604	VAL	CA-CB	-6.28	1.47	1.54
1	M	360	ASP	C-N	6.28	1.42	1.34
2	B	838	SER	C-N	6.28	1.40	1.33
8	k	327	GLU	CA-C	-6.28	1.44	1.52
5	L	372	ASN	CA-CB	6.28	1.61	1.53
9	o	10	ALA	N-CA	-6.28	1.38	1.46
2	D	314	ARG	NE-CZ	6.28	1.40	1.33
8	j	194	ARG	CD-NE	6.28	1.55	1.46
5	L	423	SER	N-CA	-6.28	1.38	1.46
5	L	507	LYS	N-CA	-6.28	1.38	1.46
8	j	53	TYR	N-CA	-6.28	1.38	1.46
8	k	377	MET	CA-C	-6.28	1.45	1.52
2	B	490	ASN	N-CA	-6.27	1.37	1.46
1	E	640	LEU	C-O	-6.27	1.16	1.24
8	j	345	LEU	CA-CB	6.27	1.63	1.53
8	n	380	ASN	CA-C	-6.27	1.46	1.53
2	F	507	ALA	C-N	6.27	1.41	1.33
2	N	611	PHE	N-CA	6.27	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	387	CYS	CA-CB	6.27	1.63	1.53
1	A	745	LYS	CA-CB	6.27	1.63	1.53
4	J	327	ILE	C-N	6.27	1.42	1.33
1	M	822	SER	CA-CB	6.27	1.63	1.54
6	P	323	SER	N-CA	-6.27	1.37	1.46
8	i	334	HIS	ND1-CE1	6.27	1.38	1.32
8	d	38	GLU	CA-C	-6.27	1.44	1.52
1	C	398	ILE	CA-C	-6.26	1.45	1.52
8	h	273	TYR	N-CA	-6.26	1.39	1.46
1	E	549	ARG	N-CA	-6.26	1.38	1.46
1	M	359	HIS	CA-CB	6.26	1.63	1.53
2	Q	90	ARG	CA-C	-6.26	1.44	1.52
3	K	43	ASN	CA-C	-6.26	1.44	1.52
1	C	511	HIS	CD2-NE2	6.26	1.44	1.37
2	F	521	LEU	CA-C	-6.26	1.44	1.52
8	m	339	ARG	CA-CB	6.26	1.63	1.53
8	e	314	ASN	C-N	6.25	1.42	1.33
1	G	730	ASP	CA-CB	6.25	1.63	1.53
8	i	341	ARG	NE-CZ	6.25	1.40	1.33
8	n	282	VAL	CA-CB	-6.25	1.46	1.54
3	K	484	VAL	C-N	6.25	1.43	1.33
5	L	518	TYR	CA-C	6.25	1.59	1.52
2	R	11	VAL	CA-C	-6.25	1.45	1.52
2	S	75	SER	C-N	6.25	1.41	1.33
3	I	515	ARG	NE-CZ	6.25	1.40	1.33
2	F	498	ASP	N-CA	-6.25	1.39	1.46
4	J	789	HIS	ND1-CE1	6.25	1.38	1.32
2	F	566	LEU	CB-CG	6.25	1.66	1.53
1	M	267	THR	C-N	6.25	1.42	1.33
8	g	159	ASP	CA-CB	6.25	1.64	1.53
8	i	367	LEU	N-CA	-6.24	1.39	1.46
3	K	343	LEU	CA-CB	6.24	1.63	1.53
5	L	243	LEU	CA-C	-6.24	1.46	1.52
8	h	60	TYR	CA-C	-6.24	1.44	1.52
2	H	475	THR	CA-C	-6.24	1.45	1.52
3	K	416	LEU	N-CA	-6.24	1.37	1.45
8	h	372	ARG	CZ-NH2	6.24	1.41	1.33
1	G	257	GLU	N-CA	-6.24	1.38	1.46
2	F	774	LEU	CA-CB	6.23	1.64	1.53
8	n	309	ARG	NE-CZ	6.23	1.40	1.33
1	C	699	GLU	C-N	6.23	1.42	1.33
2	N	741	GLN	C-N	6.23	1.42	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	b	141	ILE	C-N	6.23	1.42	1.33
8	b	212	ARG	C-N	6.23	1.42	1.33
8	g	49	ASP	CA-CB	6.23	1.62	1.53
8	g	132	LEU	CA-C	6.23	1.60	1.52
8	i	269	LEU	C-N	6.23	1.42	1.33
8	c	425	ARG	C-N	6.23	1.42	1.33
7	W	612	ASP	CA-CB	6.22	1.63	1.53
8	g	68	ASP	CA-C	-6.22	1.45	1.52
8	j	154	LEU	CA-CB	6.22	1.64	1.53
8	l	66	LEU	N-CA	-6.22	1.39	1.46
2	D	658	HIS	ND1-CE1	6.22	1.38	1.32
4	J	466	ARG	CA-CB	6.22	1.63	1.53
1	M	559	ARG	CA-CB	6.22	1.63	1.53
7	W	633	PHE	CA-CB	6.22	1.62	1.53
3	K	112	LEU	C-O	-6.22	1.15	1.24
8	g	28	GLU	C-N	6.22	1.43	1.33
8	i	92	TYR	CA-CB	6.22	1.65	1.53
2	B	593	GLN	N-CA	-6.21	1.38	1.46
6	P	39	ARG	CA-C	-6.21	1.45	1.52
8	d	129	SER	C-N	6.21	1.42	1.33
8	f	271	THR	CA-C	-6.21	1.45	1.52
9	t	12	ARG	CA-C	-6.21	1.44	1.52
2	H	359	SER	N-CA	6.21	1.58	1.46
4	J	974	SER	CA-C	-6.21	1.44	1.52
8	g	2	PRO	N-CA	6.21	1.56	1.47
8	m	160	ARG	CZ-NH1	6.21	1.41	1.32
3	I	268	ILE	CA-C	6.21	1.58	1.52
8	b	31	ILE	C-N	6.21	1.42	1.33
2	H	447	VAL	CA-C	-6.21	1.45	1.52
5	L	171	LEU	CA-C	-6.21	1.44	1.52
6	P	67	LEU	C-N	6.21	1.41	1.33
8	k	340	ILE	CA-C	-6.21	1.44	1.52
8	l	160	ARG	NE-CZ	6.21	1.39	1.33
3	I	622	SER	CA-C	-6.21	1.44	1.52
8	m	3	ARG	NE-CZ	6.21	1.39	1.33
8	m	296	ARG	C-N	6.21	1.42	1.33
9	o	48	GLU	CA-C	-6.21	1.45	1.52
1	A	361	ARG	N-CA	-6.21	1.38	1.46
1	C	233	SER	CA-C	-6.21	1.45	1.52
4	J	297	ILE	CA-C	-6.21	1.45	1.52
3	K	536	LEU	N-CA	-6.21	1.38	1.46
8	n	116	GLU	N-CA	-6.21	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	C	528	VAL	CA-CB	-6.20	1.47	1.54
2	D	610	GLN	C-N	6.20	1.42	1.33
6	P	349	LEU	N-CA	-6.20	1.37	1.46
8	k	360	LEU	N-CA	-6.20	1.38	1.45
1	C	476	TYR	C-N	6.20	1.42	1.33
8	c	56	ASP	C-N	-6.20	1.25	1.33
8	i	425	ARG	CD-NE	6.20	1.54	1.46
1	E	572	LEU	CA-CB	6.20	1.64	1.53
8	i	350	PRO	CA-C	6.20	1.61	1.52
8	k	234	THR	C-N	6.20	1.40	1.34
1	M	365	TYR	CZ-OH	6.20	1.51	1.38
1	M	693	GLN	N-CA	-6.20	1.38	1.46
8	h	371	HIS	CE1-NE2	6.20	1.38	1.32
8	j	111	GLY	C-N	6.20	1.42	1.33
6	P	348	SER	C-N	6.19	1.42	1.33
1	A	529	HIS	CG-ND1	-6.19	1.31	1.38
2	B	386	HIS	CD2-NE2	6.19	1.44	1.37
2	H	418	LEU	CA-CB	6.19	1.62	1.53
5	L	1482	GLU	CA-C	-6.19	1.45	1.52
6	P	133	TYR	CA-C	6.19	1.59	1.52
8	i	2	PRO	C-N	6.19	1.40	1.33
8	m	253	LEU	CA-C	-6.19	1.44	1.52
6	P	28	ARG	NE-CZ	6.19	1.39	1.33
1	G	381	ALA	N-CA	-6.19	1.38	1.46
5	L	351	THR	C-N	6.19	1.42	1.33
2	N	634	TRP	NE1-CE2	-6.19	1.30	1.37
8	n	4	GLU	N-CA	-6.19	1.38	1.46
8	c	161	TYR	C-N	6.19	1.38	1.33
2	B	673	GLU	C-N	6.18	1.43	1.33
4	J	477	VAL	CA-C	-6.18	1.43	1.52
8	l	285	VAL	N-CA	-6.18	1.38	1.46
4	J	941	LYS	CA-CB	6.18	1.63	1.53
3	K	206	ARG	NE-CZ	6.18	1.39	1.33
1	G	313	GLN	C-N	6.18	1.41	1.33
2	H	683	HIS	CD2-NE2	6.18	1.44	1.37
1	G	746	ILE	N-CA	-6.18	1.38	1.46
3	K	574	LEU	CA-C	-6.18	1.44	1.52
3	K	581	CYS	CA-CB	6.18	1.63	1.53
2	B	511	SER	N-CA	-6.18	1.38	1.46
2	F	636	VAL	CA-C	-6.18	1.45	1.52
4	J	470	GLU	N-CA	-6.18	1.37	1.46
3	K	519	HIS	ND1-CE1	6.18	1.38	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	496	LYS	CA-CB	6.18	1.64	1.53
8	e	124	ARG	N-CA	-6.18	1.38	1.46
8	i	401	ARG	C-N	6.18	1.41	1.33
8	b	423	ASN	C-N	6.17	1.42	1.34
1	A	846	SER	C-N	6.17	1.41	1.33
2	D	632	THR	CA-CB	6.17	1.63	1.53
1	E	562	THR	N-CA	6.17	1.54	1.46
1	E	683	GLN	CA-CB	6.17	1.62	1.53
7	X	661	ARG	CZ-NH1	6.17	1.41	1.32
2	F	546	ASP	C-N	6.17	1.41	1.33
8	j	404	PHE	CA-CB	6.17	1.62	1.53
8	n	336	SER	CA-CB	6.17	1.63	1.53
1	G	645	PHE	C-N	6.17	1.42	1.33
2	H	865	THR	N-CA	-6.17	1.38	1.46
8	h	261	ILE	N-CA	6.17	1.54	1.46
2	N	440	ASP	CA-CB	6.17	1.61	1.53
8	j	170	SER	CA-C	-6.17	1.44	1.52
2	D	525	LEU	N-CA	-6.17	1.39	1.46
8	i	37	VAL	C-N	6.17	1.41	1.33
1	E	744	LEU	N-CA	-6.16	1.38	1.46
3	I	415	ASN	CA-C	-6.16	1.45	1.52
2	R	95	TYR	C-N	6.16	1.42	1.33
8	i	237	SER	CA-C	-6.16	1.44	1.52
1	C	565	THR	N-CA	-6.16	1.39	1.46
4	J	567	ASN	N-CA	-6.16	1.38	1.46
2	N	611	PHE	C-N	6.16	1.42	1.33
8	d	237	SER	CA-CB	6.16	1.64	1.53
8	d	283	ALA	CA-CB	6.16	1.63	1.53
2	D	881	PHE	CA-CB	6.16	1.63	1.53
1	G	382	ALA	CA-C	-6.16	1.44	1.52
2	N	450	ASP	CA-CB	6.16	1.63	1.53
8	j	352	GLY	N-CA	-6.16	1.36	1.44
1	C	266	ALA	CA-C	-6.16	1.44	1.52
6	P	105	LEU	C-N	6.16	1.41	1.33
2	S	81	LEU	CA-C	-6.16	1.44	1.52
7	W	623	VAL	N-CA	-6.16	1.39	1.46
8	a	296	ARG	CZ-NH2	6.16	1.41	1.33
8	c	410	LYS	C-N	6.16	1.41	1.33
3	K	130	HIS	N-CA	-6.16	1.37	1.46
8	i	35	GLY	N-CA	-6.16	1.39	1.45
8	m	88	PRO	N-CA	-6.16	1.39	1.47
1	C	836	MET	CA-C	-6.15	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	403	TYR	N-CA	-6.15	1.42	1.46
2	Q	110	LYS	CA-C	-6.15	1.45	1.52
2	F	276	VAL	CA-C	-6.15	1.45	1.52
4	J	999	ARG	NE-CZ	6.15	1.39	1.33
2	D	740	ALA	CA-C	-6.15	1.45	1.52
3	K	333	ARG	CA-C	-6.15	1.46	1.52
8	h	66	LEU	CA-C	-6.15	1.46	1.53
1	A	648	LYS	CA-C	-6.15	1.44	1.52
2	D	582	PRO	N-CD	-6.15	1.39	1.47
8	i	165	LEU	CA-C	-6.15	1.44	1.52
8	j	261	ILE	CA-C	-6.15	1.48	1.52
2	F	456	ASP	N-CA	-6.15	1.38	1.46
1	G	492	ASN	N-CA	-6.15	1.38	1.46
8	d	61	ILE	CA-C	6.15	1.57	1.53
8	k	160	ARG	NE-CZ	6.15	1.39	1.33
8	l	377	MET	CA-C	-6.15	1.45	1.52
1	C	236	PRO	C-N	6.14	1.41	1.33
1	E	267	THR	C-N	6.14	1.43	1.33
2	H	362	THR	CA-C	6.14	1.61	1.53
8	n	243	LEU	CA-C	6.14	1.60	1.53
2	B	511	SER	C-O	-6.14	1.17	1.24
1	G	531	MET	C-N	6.14	1.42	1.34
2	H	552	TYR	CA-C	-6.14	1.44	1.52
5	L	1450	HIS	CA-C	-6.14	1.45	1.52
8	c	56	ASP	CA-C	-6.14	1.47	1.52
8	k	28	GLU	CA-C	-6.14	1.44	1.52
9	s	11	VAL	C-N	6.14	1.42	1.33
4	J	405	LEU	CA-C	-6.14	1.44	1.52
4	J	356	THR	CA-C	-6.14	1.44	1.52
6	P	223	PHE	C-N	6.14	1.42	1.33
8	f	157	LEU	C-O	-6.14	1.15	1.24
8	f	213	ILE	CA-C	-6.14	1.44	1.53
8	k	388	PHE	CA-C	-6.14	1.44	1.52
8	j	73	VAL	C-N	6.14	1.42	1.34
2	N	700	LEU	CA-CB	6.14	1.64	1.53
3	K	345	VAL	CA-C	-6.13	1.45	1.52
1	M	674	TRP	C-N	6.13	1.42	1.33
8	d	186	TYR	CA-C	-6.13	1.45	1.53
1	C	326	TYR	CA-C	-6.13	1.44	1.52
8	e	401	ARG	C-N	6.13	1.41	1.33
2	D	361	LEU	CA-C	-6.13	1.45	1.52
1	E	230	ARG	CA-C	-6.13	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	501	LEU	CB-CG	6.13	1.65	1.53
5	L	1571	THR	C-N	6.13	1.42	1.34
2	N	712	HIS	ND1-CE1	6.13	1.38	1.32
8	l	82	TYR	CA-C	-6.13	1.44	1.53
3	K	547	ILE	C-N	6.13	1.42	1.33
7	X	668	ARG	NE-CZ	6.13	1.39	1.33
8	d	5	ILE	CA-CB	6.13	1.61	1.54
2	R	102	GLU	CA-C	-6.12	1.45	1.52
1	G	615	PHE	CA-CB	6.12	1.61	1.53
4	J	714	TYR	C-N	6.12	1.42	1.33
2	N	713	PHE	CA-CB	6.12	1.63	1.53
8	b	126	ALA	CA-C	-6.12	1.44	1.52
2	F	838	SER	CA-CB	6.12	1.64	1.53
8	f	381	HIS	CB-CG	6.12	1.58	1.50
8	i	29	HIS	ND1-CE1	6.12	1.38	1.32
1	E	745	LYS	CA-CB	6.12	1.63	1.53
2	F	388	GLN	CA-CB	6.12	1.64	1.54
1	M	379	THR	N-CA	-6.12	1.38	1.46
8	d	324	ILE	CA-CB	-6.12	1.46	1.54
8	l	73	VAL	C-N	6.12	1.41	1.33
8	m	169	TYR	CA-C	-6.12	1.46	1.53
8	n	22	TRP	C-N	6.12	1.42	1.33
3	K	344	MET	N-CA	-6.11	1.38	1.46
5	L	450	SER	CA-C	-6.11	1.44	1.52
5	L	1500	MET	CA-C	-6.11	1.44	1.52
1	A	360	ASP	C-O	-6.11	1.16	1.24
1	A	835	LEU	N-CA	-6.11	1.38	1.46
3	K	650	TYR	C-N	6.11	1.42	1.33
2	N	267	MET	CA-C	-6.11	1.45	1.53
8	c	314	ASN	CA-CB	-6.11	1.44	1.53
8	n	138	CYS	CA-CB	6.11	1.60	1.52
3	I	323	VAL	C-N	6.11	1.42	1.34
8	b	220	ILE	CA-CB	6.11	1.62	1.54
9	q	50	LEU	CB-CG	6.11	1.65	1.53
1	G	266	ALA	C-N	6.11	1.41	1.33
1	G	368	ASP	C-N	6.11	1.42	1.33
5	L	13	GLU	C-N	6.11	1.42	1.33
8	b	160	ARG	NE-CZ	6.11	1.39	1.33
8	g	147	SER	N-CA	-6.11	1.38	1.46
1	A	520	LEU	N-CA	-6.10	1.38	1.46
8	j	160	ARG	CD-NE	6.10	1.54	1.46
2	B	763	LEU	CA-C	-6.10	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	851	HIS	N-CA	-6.10	1.38	1.46
8	d	285	VAL	CA-CB	-6.10	1.46	1.54
2	N	594	HIS	ND1-CE1	6.10	1.38	1.32
3	K	384	PRO	C-O	6.10	1.31	1.24
2	D	869	ASP	C-N	6.10	1.42	1.33
2	S	38	VAL	CA-CB	6.09	1.62	1.54
8	e	362	ARG	CZ-NH2	6.09	1.41	1.33
2	N	704	HIS	ND1-CE1	6.09	1.38	1.32
8	d	8	LEU	CA-C	-6.09	1.43	1.53
8	i	294	MET	N-CA	-6.09	1.40	1.46
2	B	250	VAL	CA-C	-6.09	1.45	1.52
2	O	87	LEU	CA-CB	6.09	1.63	1.53
8	a	374	SER	CA-C	-6.09	1.45	1.52
1	M	464	HIS	ND1-CE1	6.09	1.38	1.32
8	d	353	PRO	CA-C	6.09	1.58	1.52
2	B	496	CYS	CA-C	6.09	1.60	1.52
6	P	181	ALA	C-N	6.08	1.41	1.33
8	c	420	GLU	CA-CB	6.08	1.63	1.53
8	n	273	TYR	CA-C	-6.08	1.46	1.52
2	B	878	ARG	CD-NE	6.08	1.54	1.46
3	K	168	VAL	C-O	-6.08	1.16	1.24
8	d	160	ARG	NE-CZ	6.08	1.39	1.33
8	j	205	LEU	C-N	6.08	1.41	1.33
2	B	443	HIS	ND1-CE1	6.08	1.38	1.32
2	F	634	TRP	N-CA	-6.08	1.39	1.46
4	J	908	PHE	N-CA	-6.08	1.38	1.46
1	M	848	SER	CA-CB	6.08	1.63	1.53
8	e	360	LEU	CA-C	-6.08	1.45	1.52
8	k	11	GLY	CA-C	-6.08	1.44	1.52
1	C	469	PRO	N-CA	-6.08	1.39	1.47
7	W	629	MET	C-N	6.08	1.41	1.33
8	d	26	CYS	N-CA	-6.08	1.38	1.46
8	i	47	ARG	C-N	6.08	1.42	1.33
6	P	257	CYS	N-CA	-6.08	1.37	1.46
8	f	256	LEU	C-N	6.08	1.40	1.34
8	g	392	CYS	C-N	6.08	1.42	1.34
2	D	884	HIS	CE1-NE2	6.08	1.38	1.32
2	S	85	GLY	CA-C	-6.08	1.43	1.51
8	a	425	ARG	CD-NE	6.08	1.54	1.46
1	E	237	LEU	CA-CB	6.07	1.63	1.53
8	a	58	GLU	C-N	6.07	1.42	1.33
2	H	401	ALA	C-N	6.07	1.43	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	1418	LEU	CA-C	6.07	1.61	1.52
5	L	1576	ARG	CZ-NH1	6.07	1.41	1.32
1	M	734	LYS	CA-C	-6.07	1.44	1.52
8	a	29	HIS	C-N	6.07	1.40	1.33
8	n	78	LEU	CA-C	-6.07	1.44	1.52
2	F	542	LYS	CA-C	-6.07	1.44	1.52
8	h	367	LEU	C-O	-6.07	1.18	1.24
8	k	395	TYR	CA-C	-6.07	1.44	1.52
1	C	429	GLN	CA-CB	6.06	1.60	1.53
2	D	312	LEU	CA-C	-6.06	1.45	1.52
2	N	605	ARG	CZ-NH2	6.06	1.41	1.33
7	U	670	ASN	N-CA	6.06	1.54	1.45
1	A	643	HIS	ND1-CE1	6.06	1.38	1.32
2	D	480	ARG	CD-NE	6.06	1.54	1.46
2	F	249	LEU	N-CA	6.06	1.54	1.46
2	F	834	GLU	C-N	6.06	1.42	1.34
3	I	18	THR	N-CA	-6.06	1.38	1.46
3	K	294	SER	C-N	6.06	1.42	1.33
8	h	254	ILE	N-CA	-6.06	1.40	1.46
8	g	29	HIS	ND1-CE1	6.06	1.38	1.32
1	A	861	LEU	CA-CB	6.05	1.62	1.53
2	H	669	ALA	CA-C	-6.05	1.44	1.52
8	c	78	LEU	CA-C	-6.05	1.44	1.52
8	e	84	ASN	N-CA	-6.05	1.38	1.46
8	e	244	ARG	CD-NE	6.05	1.54	1.46
1	C	248	GLU	C-N	6.05	1.42	1.33
2	S	54	VAL	CA-CB	-6.05	1.46	1.54
2	B	456	ASP	CA-CB	6.05	1.63	1.53
7	U	663	GLU	N-CA	-6.05	1.39	1.46
8	c	55	ALA	CA-C	-6.05	1.45	1.52
8	i	420	GLU	CA-C	-6.05	1.44	1.52
1	G	368	ASP	C-O	-6.05	1.16	1.23
8	c	38	GLU	C-N	6.05	1.42	1.33
8	i	47	ARG	NE-CZ	6.05	1.39	1.33
2	B	590	THR	CA-C	6.04	1.60	1.52
1	G	215	CYS	CA-C	-6.04	1.44	1.52
8	m	348	PHE	C-N	6.04	1.40	1.33
2	B	384	VAL	CA-C	6.04	1.61	1.53
1	E	305	LEU	C-N	6.04	1.41	1.33
5	L	378	PHE	C-N	6.04	1.41	1.33
5	L	1516	MET	C-N	6.04	1.41	1.33
1	E	243	ARG	CZ-NH1	6.04	1.41	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	513	GLU	C-N	6.04	1.42	1.33
1	G	620	ILE	N-CA	6.04	1.53	1.46
8	g	205	LEU	CA-C	-6.04	1.45	1.52
9	r	45	ILE	CA-CB	6.04	1.62	1.54
2	F	612	ASP	CA-CB	6.04	1.62	1.53
8	c	413	ILE	N-CA	-6.04	1.39	1.46
1	C	215	CYS	CA-C	-6.04	1.45	1.52
7	U	615	ARG	CD-NE	6.04	1.54	1.46
8	c	253	LEU	C-N	6.04	1.40	1.34
8	k	261	ILE	CA-C	-6.04	1.47	1.53
3	I	1	MET	CA-CB	6.04	1.65	1.53
8	b	98	GLY	CA-C	-6.04	1.43	1.51
2	H	286	LEU	N-CA	-6.04	1.39	1.46
5	L	554	ILE	CA-CB	-6.04	1.46	1.54
8	j	125	GLU	CA-CB	6.04	1.61	1.53
1	C	232	ILE	CA-C	-6.03	1.44	1.52
1	C	370	GLN	N-CA	-6.03	1.39	1.46
1	C	549	ARG	CD-NE	6.03	1.54	1.46
3	I	396	PHE	N-CA	-6.03	1.38	1.46
4	J	487	GLU	N-CA	-6.03	1.38	1.46
3	K	146	GLN	CA-C	-6.03	1.44	1.52
2	S	38	VAL	CA-C	-6.03	1.45	1.52
2	B	876	SER	CA-C	-6.03	1.44	1.52
2	H	438	LEU	N-CA	-6.03	1.38	1.46
2	R	19	ARG	CD-NE	6.03	1.54	1.46
8	k	166	VAL	CA-CB	-6.03	1.47	1.54
5	L	33	ASN	C-N	6.03	1.41	1.33
6	P	223	PHE	CA-CB	6.03	1.63	1.53
8	j	110	GLN	C-N	6.03	1.42	1.33
8	l	223	PRO	CA-CB	6.03	1.60	1.54
2	N	430	TYR	CA-CB	6.03	1.63	1.53
1	E	251	LEU	C-N	6.03	1.41	1.33
5	L	43	ALA	N-CA	-6.03	1.39	1.46
1	M	738	LEU	CA-C	-6.03	1.45	1.52
8	d	47	ARG	NE-CZ	6.03	1.39	1.33
8	f	303	VAL	C-N	6.03	1.41	1.33
8	k	40	PHE	N-CA	6.03	1.54	1.46
2	F	843	ARG	CZ-NH2	6.03	1.41	1.33
1	G	695	TYR	CA-CB	6.03	1.63	1.53
2	F	791	LEU	CA-CB	6.02	1.64	1.54
8	d	430	GLN	CA-C	-6.02	1.44	1.52
8	m	156	ARG	NE-CZ	6.02	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	254	LEU	CA-CB	6.02	1.63	1.53
3	K	495	TRP	NE1-CE2	6.02	1.44	1.37
8	f	329	ASP	CA-C	6.02	1.60	1.52
1	E	760	CYS	N-CA	-6.02	1.37	1.46
5	L	583	CYS	CA-CB	6.02	1.61	1.53
3	K	626	PHE	CA-C	6.02	1.60	1.52
2	S	91	TRP	CA-C	-6.02	1.45	1.52
8	c	354	ALA	C-N	6.02	1.41	1.33
8	c	365	PRO	CA-C	6.02	1.60	1.52
8	e	115	HIS	ND1-CE1	6.02	1.38	1.32
8	e	137	LEU	CA-C	-6.02	1.45	1.52
9	p	16	ASP	C-N	6.02	1.41	1.33
2	B	856	ILE	C-N	6.02	1.41	1.33
1	C	730	ASP	C-O	6.02	1.31	1.24
2	D	541	SER	N-CA	-6.02	1.38	1.46
2	D	754	LEU	N-CA	-6.02	1.38	1.46
1	M	257	GLU	C-N	6.02	1.42	1.33
8	h	226	SER	C-N	6.02	1.42	1.33
2	B	480	ARG	C-N	6.02	1.41	1.33
8	f	135	PHE	CA-C	-6.02	1.45	1.52
2	B	554	LEU	CA-CB	6.01	1.62	1.53
1	C	449	ILE	CA-C	-6.01	1.45	1.52
1	M	511	HIS	CA-C	-6.01	1.45	1.52
8	d	349	ILE	C-N	6.01	1.38	1.33
8	g	51	PHE	CA-C	-6.01	1.45	1.52
2	H	521	LEU	CA-CB	6.01	1.64	1.53
3	I	311	LEU	N-CA	-6.01	1.39	1.46
2	B	617	LEU	CA-C	6.01	1.60	1.52
4	J	936	CYS	CA-C	-6.01	1.44	1.52
8	n	157	LEU	N-CA	6.01	1.53	1.46
1	C	402	PRO	N-CA	-6.01	1.39	1.47
8	b	349	ILE	N-CA	-6.01	1.41	1.47
8	c	13	CYS	CA-CB	6.01	1.62	1.53
2	H	443	HIS	ND1-CE1	6.01	1.38	1.32
5	L	1656	TYR	C-N	6.01	1.41	1.33
8	a	188	SER	CA-C	6.01	1.60	1.52
8	f	401	ARG	NE-CZ	6.00	1.39	1.33
2	D	545	LEU	CB-CG	6.00	1.65	1.53
8	f	19	PHE	C-N	6.00	1.42	1.33
1	A	303	MET	C-N	6.00	1.41	1.33
2	D	533	ILE	CA-CB	6.00	1.62	1.54
1	E	229	GLY	CA-C	-6.00	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	14	GLY	N-CA	-6.00	1.39	1.44
9	t	44	GLY	C-N	6.00	1.41	1.33
1	E	341	ALA	C-N	6.00	1.42	1.33
3	K	267	TYR	C-N	6.00	1.38	1.33
2	N	612	ASP	CA-CB	6.00	1.62	1.53
8	l	421	LEU	N-CA	6.00	1.54	1.46
1	G	552	ALA	CA-C	-6.00	1.45	1.52
8	g	86	TYR	CA-C	-6.00	1.45	1.52
8	k	399	ARG	NE-CZ	6.00	1.39	1.33
5	L	36	LYS	CA-C	-6.00	1.45	1.52
2	F	300	HIS	CG-CD2	5.99	1.42	1.35
3	I	323	VAL	N-CA	5.99	1.53	1.46
1	G	849	ASP	CA-CB	5.99	1.63	1.53
8	a	435	TYR	CA-CB	5.99	1.62	1.53
8	h	219	HIS	C-N	5.99	1.42	1.33
8	e	72	ARG	CA-CB	5.99	1.63	1.53
8	f	141	ILE	C-N	5.99	1.41	1.33
8	g	115	HIS	ND1-CE1	5.99	1.38	1.32
1	A	866	PHE	CA-CB	5.99	1.63	1.53
2	H	857	VAL	CA-CB	-5.99	1.45	1.54
8	m	433	ASP	N-CA	-5.99	1.38	1.46
1	M	336	VAL	CA-C	-5.99	1.45	1.53
1	A	442	LEU	CA-CB	5.99	1.63	1.53
8	c	412	ASP	CA-CB	5.99	1.62	1.53
8	d	182	VAL	CA-CB	-5.99	1.47	1.54
8	l	228	ILE	CB-CG1	5.99	1.65	1.53
1	C	611	GLY	CA-C	-5.98	1.45	1.52
2	F	323	PHE	C-N	5.98	1.42	1.33
4	J	312	GLN	CA-C	-5.98	1.45	1.52
3	K	538	SER	CA-CB	5.98	1.62	1.53
1	M	848	SER	CA-C	-5.98	1.46	1.53
8	d	417	ASN	CA-C	-5.98	1.46	1.52
8	j	428	VAL	C-N	5.98	1.42	1.34
8	k	334	HIS	ND1-CE1	5.98	1.38	1.32
1	G	439	PRO	CA-CB	5.98	1.62	1.53
2	H	629	PRO	C-O	5.98	1.31	1.24
8	h	389	GLU	CA-C	-5.98	1.44	1.52
8	j	133	GLU	CA-CB	5.98	1.62	1.53
2	N	408	PRO	CA-C	5.98	1.58	1.53
2	T	48	GLU	N-CA	-5.98	1.39	1.46
8	f	431	LEU	CA-C	5.98	1.61	1.52
2	B	663	PHE	CA-CB	5.98	1.63	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	d	49	ASP	CA-C	-5.98	1.45	1.52
2	B	613	ASN	N-CA	-5.97	1.41	1.46
2	D	799	LEU	CA-CB	5.97	1.63	1.53
8	d	212	ARG	C-N	5.97	1.41	1.33
4	J	359	ALA	C-N	5.97	1.42	1.34
2	Q	66	ARG	NE-CZ	5.97	1.39	1.33
8	h	192	LEU	C-N	5.97	1.42	1.33
7	V	667	LEU	CA-C	-5.97	1.45	1.52
8	d	276	LEU	CA-C	-5.97	1.46	1.52
8	g	52	PHE	N-CA	-5.97	1.38	1.46
1	G	529	HIS	ND1-CE1	5.97	1.38	1.32
8	d	58	GLU	CA-C	5.97	1.60	1.53
2	H	624	LEU	CA-C	-5.97	1.45	1.52
2	S	105	ARG	CA-C	-5.97	1.45	1.52
8	a	363	LYS	CA-C	-5.97	1.45	1.52
8	d	119	PHE	CA-CB	5.96	1.61	1.53
8	h	130	ASP	CA-C	-5.96	1.45	1.52
8	l	117	ASP	CA-CB	5.96	1.62	1.53
3	I	2	ILE	N-CA	-5.96	1.39	1.46
8	c	155	GLU	CA-C	-5.96	1.45	1.52
8	m	35	GLY	CA-C	-5.96	1.44	1.51
1	A	834	HIS	CB-CG	5.96	1.58	1.50
2	B	695	GLU	N-CA	-5.96	1.39	1.46
2	D	858	GLN	CA-C	-5.96	1.44	1.52
2	H	619	ARG	CA-CB	5.96	1.61	1.53
7	V	619	HIS	CA-CB	5.96	1.62	1.53
8	b	386	SER	C-N	5.96	1.42	1.33
8	k	55	ALA	CA-C	-5.96	1.45	1.52
2	H	806	GLU	CA-C	-5.96	1.44	1.52
8	b	309	ARG	CD-NE	5.96	1.54	1.46
1	C	368	ASP	N-CA	5.96	1.53	1.46
3	K	199	GLN	C-N	5.96	1.42	1.33
2	T	66	ARG	NE-CZ	5.96	1.39	1.33
1	E	261	ARG	C-N	5.96	1.41	1.34
2	D	342	HIS	N-CA	-5.95	1.38	1.46
1	E	278	GLU	C-N	5.95	1.42	1.34
3	I	393	ASN	C-N	5.95	1.40	1.34
4	J	600	GLN	CA-CB	5.95	1.64	1.53
3	K	205	VAL	C-N	5.95	1.40	1.33
8	c	360	LEU	CA-C	-5.95	1.45	1.52
1	M	614	SER	C-N	5.95	1.41	1.33
8	e	376	LEU	N-CA	5.95	1.53	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	1465	TYR	CA-C	-5.95	1.45	1.52
8	k	103	ASN	CA-CB	5.95	1.63	1.53
1	E	521	MET	C-N	5.95	1.42	1.33
2	T	88	LYS	CA-CB	5.95	1.63	1.53
8	c	248	TYR	CA-C	-5.95	1.44	1.52
8	c	353	PRO	C-N	5.95	1.42	1.33
8	l	294	MET	CA-C	-5.95	1.44	1.52
1	A	230	ARG	NE-CZ	5.95	1.39	1.33
1	G	708	LEU	CA-C	-5.95	1.45	1.52
7	X	654	VAL	C-N	5.95	1.41	1.33
8	i	387	LEU	CA-CB	5.95	1.62	1.53
8	k	321	LEU	CA-C	-5.95	1.45	1.52
8	n	138	CYS	CA-C	5.95	1.59	1.53
1	A	431	TYR	N-CA	-5.95	1.38	1.45
1	A	559	ARG	C-N	5.95	1.42	1.33
4	J	757	ILE	CA-C	-5.95	1.45	1.52
8	k	319	ALA	CA-C	-5.95	1.45	1.52
8	l	35	GLY	CA-C	-5.95	1.46	1.52
1	M	827	PHE	CA-CB	5.94	1.62	1.53
8	h	50	VAL	N-CA	-5.94	1.39	1.46
9	p	58	ARG	CA-CB	5.94	1.62	1.53
2	D	404	LYS	C-N	5.94	1.41	1.33
3	I	454	LEU	CA-C	-5.94	1.44	1.52
6	P	40	HIS	ND1-CE1	5.94	1.38	1.32
8	d	322	ASN	CA-C	-5.94	1.45	1.53
8	h	348	PHE	C-N	5.94	1.40	1.33
8	j	308	GLY	N-CA	5.94	1.52	1.45
8	m	327	GLU	CA-C	-5.94	1.45	1.52
2	F	322	SER	CA-CB	5.94	1.62	1.53
8	l	348	PHE	CA-C	-5.94	1.45	1.52
5	L	1623	ILE	N-CA	-5.94	1.38	1.46
2	T	35	ALA	C-N	5.94	1.41	1.33
8	m	427	ILE	N-CA	-5.94	1.39	1.46
8	n	119	PHE	CA-C	-5.94	1.45	1.52
1	E	725	HIS	ND1-CE1	5.94	1.38	1.32
1	M	682	ARG	N-CA	-5.94	1.38	1.46
8	n	203	VAL	N-CA	-5.94	1.38	1.46
1	C	611	GLY	N-CA	-5.93	1.39	1.44
1	C	718	ILE	N-CA	5.93	1.52	1.46
5	L	76	SER	N-CA	5.93	1.53	1.46
8	k	244	ARG	NE-CZ	5.93	1.39	1.33
8	c	358	VAL	CA-CB	5.93	1.62	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	h	37	VAL	C-N	5.93	1.41	1.33
1	A	430	ARG	NE-CZ	5.93	1.39	1.33
1	E	225	ILE	C-N	5.93	1.42	1.33
8	c	108	PHE	N-CA	5.93	1.53	1.46
1	E	711	ASN	CA-CB	5.93	1.63	1.53
8	a	401	ARG	CZ-NH2	5.93	1.41	1.33
5	L	1488	ASP	CA-CB	5.93	1.63	1.53
8	d	284	SER	CA-CB	5.93	1.63	1.53
8	e	119	PHE	N-CA	5.93	1.53	1.46
8	j	256	LEU	CA-CB	5.93	1.62	1.53
8	j	407	GLN	CA-CB	5.93	1.61	1.53
1	G	440	SER	C-N	5.92	1.41	1.33
3	K	604	ASP	CA-C	5.92	1.60	1.52
5	L	249	LYS	C-N	5.92	1.37	1.33
8	b	219	HIS	ND1-CE1	5.92	1.38	1.32
8	j	402	GLU	C-N	5.92	1.41	1.33
5	L	335	ILE	C-N	5.92	1.42	1.33
2	N	376	ARG	CZ-NH1	5.92	1.41	1.32
2	N	875	LEU	CA-CB	5.92	1.62	1.53
8	n	44	GLY	CA-C	-5.92	1.43	1.51
2	D	335	TYR	CA-CB	5.92	1.63	1.53
8	j	429	GLN	CA-CB	5.92	1.63	1.53
1	E	490	ALA	CA-C	-5.92	1.45	1.52
3	I	149	HIS	CB-CG	5.92	1.58	1.50
8	f	245	TYR	N-CA	-5.92	1.38	1.45
2	B	828	GLU	CA-C	-5.92	1.45	1.52
8	d	180	HIS	ND1-CE1	5.92	1.38	1.32
8	i	145	THR	CA-C	-5.92	1.45	1.52
8	h	75	HIS	ND1-CE1	5.92	1.38	1.32
2	B	416	HIS	CA-CB	5.91	1.63	1.53
5	L	544	VAL	N-CA	5.91	1.53	1.46
2	N	408	PRO	CA-CB	5.91	1.60	1.53
8	c	16	GLN	N-CA	-5.91	1.38	1.46
8	f	404	PHE	C-O	5.91	1.31	1.23
8	h	61	ILE	N-CA	-5.91	1.41	1.46
8	l	395	TYR	CA-CB	5.91	1.63	1.53
1	G	276	VAL	CA-CB	5.91	1.61	1.54
1	M	400	ASN	N-CA	-5.91	1.39	1.46
1	C	302	TYR	N-CA	-5.91	1.39	1.46
8	b	373	VAL	CA-CB	5.91	1.60	1.54
8	h	381	HIS	CG-ND1	-5.91	1.31	1.38
8	l	185	PRO	CA-CB	5.91	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	m	336	SER	C-N	5.91	1.42	1.33
8	n	278	THR	C-N	5.91	1.42	1.33
9	r	34	LEU	CA-C	-5.91	1.45	1.52
2	N	825	GLU	N-CA	-5.91	1.39	1.46
1	A	516	LYS	CA-CB	5.90	1.63	1.53
2	F	667	TRP	C-N	5.90	1.42	1.33
3	K	312	HIS	CA-CB	5.90	1.62	1.53
8	b	76	SER	CA-CB	5.90	1.62	1.53
2	R	12	LEU	CA-CB	5.90	1.62	1.53
8	a	343	ARG	NE-CZ	5.90	1.39	1.33
2	F	497	HIS	CE1-NE2	5.90	1.38	1.32
8	h	10	LEU	C-N	5.90	1.39	1.32
2	F	656	MET	C-N	5.90	1.42	1.34
1	G	331	LEU	C-O	-5.90	1.16	1.24
1	G	430	ARG	CD-NE	5.90	1.54	1.46
4	J	923	LYS	C-N	5.90	1.40	1.34
8	b	217	ARG	CD-NE	5.90	1.54	1.46
8	b	60	TYR	CA-C	-5.90	1.45	1.52
8	e	428	VAL	CA-CB	-5.90	1.46	1.54
8	j	212	ARG	CD-NE	5.90	1.54	1.46
2	H	669	ALA	N-CA	-5.89	1.38	1.46
4	J	975	ILE	CA-CB	5.89	1.61	1.54
8	f	313	THR	N-CA	-5.89	1.37	1.45
2	F	597	THR	C-N	5.89	1.41	1.34
3	I	543	LEU	C-N	5.89	1.42	1.34
4	J	735	THR	C-N	-5.89	1.25	1.34
8	m	260	LEU	CA-C	-5.89	1.44	1.52
1	M	528	VAL	C-N	5.89	1.42	1.33
8	f	151	SER	CA-CB	5.89	1.63	1.53
8	k	74	ILE	CA-CB	-5.89	1.46	1.54
2	H	283	SER	C-N	5.89	1.42	1.33
4	J	710	ARG	N-CA	-5.89	1.38	1.46
5	L	80	ARG	CA-C	-5.89	1.45	1.52
1	A	411	HIS	CE1-NE2	-5.89	1.26	1.32
1	A	684	ARG	CD-NE	5.89	1.54	1.46
2	B	368	VAL	CA-C	-5.89	1.45	1.52
4	J	504	TRP	C-O	-5.89	1.16	1.24
3	K	559	ALA	C-N	5.89	1.42	1.33
5	L	1562	TYR	CA-CB	5.89	1.62	1.53
6	P	6	ALA	CA-C	-5.89	1.45	1.53
8	e	373	VAL	N-CA	-5.89	1.39	1.46
2	B	567	LEU	CA-C	-5.88	1.47	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	e	29	HIS	ND1-CE1	5.88	1.38	1.32
8	e	296	ARG	NE-CZ	5.88	1.39	1.33
8	j	142	ALA	C-N	5.88	1.40	1.32
8	m	121	ILE	N-CA	-5.88	1.41	1.46
8	f	46	ASP	N-CA	-5.88	1.39	1.46
2	B	622	VAL	CA-CB	-5.88	1.47	1.54
8	a	75	HIS	CB-CG	5.88	1.58	1.50
8	b	246	PRO	C-N	5.88	1.40	1.32
8	d	334	HIS	ND1-CE1	5.88	1.38	1.32
1	E	507	GLU	CA-CB	5.88	1.63	1.53
8	g	341	ARG	CD-NE	5.88	1.54	1.46
3	I	91	ARG	CD-NE	5.88	1.54	1.46
4	J	402	LEU	CA-CB	5.88	1.62	1.53
6	P	270	GLU	N-CA	-5.88	1.39	1.46
8	h	75	HIS	C-N	5.88	1.41	1.33
1	A	702	GLU	CA-C	5.88	1.60	1.52
8	i	22	TRP	NE1-CE2	-5.88	1.30	1.37
1	G	613	GLU	C-N	5.88	1.42	1.33
1	G	732	CYS	CA-C	5.88	1.60	1.52
5	L	1450	HIS	CE1-NE2	-5.87	1.26	1.32
8	i	402	GLU	CA-C	-5.87	1.48	1.53
8	n	135	PHE	N-CA	-5.87	1.38	1.46
8	f	401	ARG	CA-C	-5.87	1.44	1.52
8	i	377	MET	N-CA	-5.87	1.39	1.46
5	L	585	PRO	C-N	5.87	1.41	1.33
1	M	247	VAL	N-CA	-5.87	1.39	1.46
8	n	165	LEU	CA-C	-5.87	1.45	1.52
2	F	706	LEU	CA-C	-5.87	1.44	1.52
3	K	304	GLU	C-O	-5.87	1.17	1.24
1	M	432	THR	C-N	5.87	1.40	1.33
8	d	68	ASP	CA-CB	5.87	1.63	1.53
8	h	351	TRP	NE1-CE2	-5.87	1.30	1.37
9	t	24	LEU	CA-CB	5.87	1.62	1.53
8	a	92	TYR	C-N	5.87	1.41	1.33
8	m	381	HIS	C-N	5.87	1.39	1.33
2	F	841	LYS	N-CA	-5.87	1.39	1.46
8	d	266	LEU	CA-C	-5.87	1.45	1.52
8	i	287	LYS	CA-C	-5.87	1.45	1.52
1	C	696	MET	CA-C	5.86	1.60	1.52
1	E	855	ILE	N-CA	-5.86	1.39	1.46
2	F	387	CYS	N-CA	-5.86	1.39	1.45
2	H	345	LEU	N-CA	-5.86	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	f	386	SER	N-CA	5.86	1.53	1.46
8	n	182	VAL	C-N	5.86	1.41	1.33
8	c	311	ARG	CZ-NH1	5.86	1.41	1.32
2	F	668	ARG	CD-NE	5.86	1.54	1.46
8	c	92	TYR	CA-CB	5.86	1.63	1.53
8	f	319	ALA	CA-CB	5.86	1.64	1.53
8	n	276	LEU	N-CA	-5.86	1.39	1.46
1	C	855	ILE	C-O	-5.86	1.17	1.24
5	L	1595	TYR	CZ-OH	5.86	1.50	1.38
8	d	160	ARG	CZ-NH1	5.86	1.41	1.32
8	k	26	CYS	CA-CB	5.86	1.62	1.53
8	b	422	ASP	CA-CB	5.86	1.62	1.53
1	E	251	LEU	CA-C	-5.86	1.44	1.52
1	G	326	TYR	CA-CB	5.86	1.62	1.53
5	L	1526	HIS	ND1-CE1	5.86	1.38	1.32
5	L	1554	HIS	CA-C	-5.86	1.45	1.52
8	d	309	ARG	CZ-NH2	5.86	1.41	1.33
1	G	699	GLU	CA-C	-5.85	1.44	1.52
4	J	927	ARG	NE-CZ	5.85	1.39	1.33
8	k	248	TYR	N-CA	-5.85	1.38	1.46
2	B	435	ASP	N-CA	-5.85	1.39	1.46
2	F	609	ALA	CA-C	-5.85	1.45	1.53
3	I	621	GLN	N-CA	-5.85	1.38	1.46
8	k	138	CYS	N-CA	-5.85	1.39	1.46
8	m	107	GLY	CA-C	-5.85	1.43	1.51
4	J	903	SER	CA-C	-5.85	1.44	1.52
3	K	524	VAL	N-CA	-5.85	1.38	1.46
6	P	210	ARG	CA-C	-5.85	1.44	1.52
8	f	3	ARG	C-N	5.85	1.41	1.33
1	A	738	LEU	C-N	5.85	1.41	1.33
6	P	247	VAL	CA-C	-5.85	1.45	1.52
8	b	212	ARG	CD-NE	5.85	1.54	1.46
8	f	430	GLN	C-N	5.85	1.42	1.33
8	h	357	GLN	C-N	5.85	1.41	1.33
2	F	406	GLY	CA-C	-5.85	1.43	1.51
2	F	760	ARG	CD-NE	5.85	1.54	1.46
3	I	35	HIS	ND1-CE1	5.85	1.38	1.32
2	T	66	ARG	C-N	5.85	1.41	1.33
8	f	58	GLU	CA-C	-5.85	1.46	1.53
6	P	235	SER	CA-CB	5.85	1.61	1.53
2	S	34	TYR	N-CA	-5.85	1.39	1.46
8	a	217	ARG	NE-CZ	5.85	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	j	395	TYR	CA-C	-5.85	1.46	1.52
1	G	340	ILE	CA-CB	5.84	1.61	1.54
3	K	520	MET	N-CA	5.84	1.53	1.46
8	j	160	ARG	NE-CZ	5.84	1.39	1.33
8	m	57	ASP	CA-CB	5.84	1.62	1.54
2	D	412	SER	CA-CB	5.84	1.62	1.53
2	F	436	GLY	C-N	5.84	1.41	1.33
1	M	832	SER	CA-CB	5.84	1.63	1.53
8	l	244	ARG	NE-CZ	5.84	1.39	1.33
2	B	566	LEU	CA-CB	5.84	1.62	1.53
6	P	224	GLU	N-CA	-5.84	1.39	1.46
2	Q	107	GLN	CA-CB	5.84	1.64	1.53
8	e	347	ASN	CA-C	-5.84	1.45	1.52
8	c	106	SER	C-N	5.84	1.41	1.33
1	A	852	HIS	CA-C	-5.84	1.45	1.52
5	L	1688	ARG	CZ-NH1	5.83	1.41	1.32
1	E	380	LYS	N-CA	-5.83	1.38	1.46
2	H	431	ARG	CD-NE	5.83	1.54	1.46
8	m	160	ARG	NE-CZ	5.83	1.39	1.33
2	H	283	SER	CA-CB	5.83	1.63	1.53
3	I	390	HIS	N-CA	5.83	1.53	1.46
7	X	613	ASP	CA-CB	5.83	1.62	1.53
8	b	323	ILE	CA-CB	-5.83	1.47	1.54
8	i	296	ARG	CA-CB	5.83	1.62	1.53
8	l	19	PHE	N-CA	-5.83	1.39	1.46
1	A	703	PRO	C-O	-5.83	1.16	1.24
1	A	725	HIS	CD2-NE2	5.83	1.44	1.37
8	i	189	LEU	C-N	5.83	1.41	1.33
8	i	212	ARG	NE-CZ	5.83	1.39	1.33
3	I	204	PHE	N-CA	-5.83	1.38	1.46
3	K	635	HIS	CA-CB	5.83	1.63	1.53
1	G	549	ARG	N-CA	-5.83	1.38	1.46
2	H	268	CYS	CA-C	5.83	1.59	1.52
3	K	398	LEU	C-N	5.83	1.41	1.33
2	N	701	HIS	CA-CB	5.83	1.62	1.53
8	f	36	ILE	CA-CB	-5.83	1.47	1.53
1	A	549	ARG	CD-NE	5.82	1.54	1.46
3	I	607	GLY	CA-C	-5.82	1.45	1.52
8	h	168	THR	CA-C	-5.82	1.45	1.52
8	i	171	VAL	CA-C	-5.82	1.46	1.52
8	i	245	TYR	C-O	-5.82	1.16	1.24
8	c	218	LEU	CB-CG	5.82	1.65	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	h	285	VAL	N-CA	5.82	1.54	1.46
2	D	428	PHE	N-CA	-5.82	1.38	1.46
4	J	893	HIS	CA-CB	5.82	1.62	1.54
3	K	87	ARG	CZ-NH1	5.82	1.40	1.32
1	M	210	PRO	CA-C	5.82	1.60	1.52
7	W	665	LYS	C-N	5.82	1.41	1.33
8	a	293	VAL	CA-CB	-5.82	1.47	1.54
8	f	353	PRO	CA-CB	-5.82	1.46	1.53
8	k	130	ASP	CA-C	-5.82	1.45	1.52
8	i	193	LYS	N-CA	-5.82	1.39	1.46
8	l	401	ARG	CZ-NH2	5.82	1.41	1.33
2	B	569	GLN	C-N	5.82	1.41	1.34
1	E	511	HIS	CG-CD2	-5.82	1.29	1.35
2	H	629	PRO	C-N	5.82	1.42	1.33
3	I	35	HIS	CE1-NE2	-5.82	1.26	1.32
4	J	710	ARG	CD-NE	5.82	1.54	1.46
3	K	201	GLU	C-N	5.82	1.42	1.33
6	P	369	ILE	N-CA	5.82	1.53	1.46
8	b	380	ASN	CA-C	-5.82	1.47	1.53
8	d	345	LEU	CA-C	-5.82	1.45	1.52
1	A	730	ASP	CA-C	-5.82	1.45	1.52
6	P	101	HIS	C-O	-5.82	1.19	1.25
8	a	235	ILE	C-N	5.82	1.41	1.33
8	f	212	ARG	C-N	5.82	1.40	1.33
8	l	2	PRO	N-CD	5.82	1.55	1.47
5	L	75	LEU	CA-C	-5.81	1.45	1.52
8	b	280	GLN	CA-C	-5.81	1.46	1.53
8	e	9	GLN	CG-CD	5.81	1.66	1.52
8	d	363	LYS	N-CA	-5.81	1.39	1.46
2	F	310	ARG	CZ-NH2	5.81	1.41	1.33
1	C	573	LYS	CA-C	-5.81	1.45	1.52
1	C	652	ARG	NE-CZ	5.81	1.39	1.33
1	E	531	MET	CA-C	-5.81	1.44	1.52
8	b	89	GLU	CA-CB	5.81	1.62	1.54
8	d	219	HIS	CG-ND1	-5.81	1.31	1.38
8	i	293	VAL	CA-CB	-5.81	1.47	1.54
8	j	348	PHE	CA-CB	5.81	1.67	1.53
8	l	47	ARG	CZ-NH2	5.81	1.41	1.33
2	B	777	VAL	N-CA	-5.81	1.38	1.46
5	L	443	TYR	N-CA	-5.81	1.38	1.46
8	k	95	GLU	CA-CB	5.81	1.63	1.53
3	I	32	PRO	CA-C	-5.80	1.44	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	33	ASN	CA-C	-5.80	1.45	1.52
1	M	831	PHE	CA-CB	5.80	1.62	1.53
8	j	198	ASN	N-CA	-5.80	1.39	1.46
1	C	856	ASN	C-N	5.80	1.41	1.33
2	D	798	GLU	C-N	5.80	1.42	1.34
8	g	428	VAL	CA-CB	-5.80	1.47	1.54
8	h	403	ALA	C-N	5.80	1.41	1.33
2	B	572	PHE	CA-CB	5.80	1.62	1.53
7	W	663	GLU	CA-C	5.80	1.60	1.52
8	f	204	VAL	CA-C	5.80	1.60	1.52
8	g	331	THR	N-CA	-5.80	1.38	1.46
1	G	491	TYR	CA-CB	5.79	1.62	1.53
3	K	635	HIS	CB-CG	5.79	1.58	1.50
2	N	253	LEU	C-N	5.79	1.42	1.34
8	b	326	GLY	CA-C	-5.79	1.43	1.51
1	A	470	ASP	CA-CB	5.79	1.61	1.53
1	E	652	ARG	N-CA	-5.79	1.39	1.46
3	K	549	SER	CA-CB	5.79	1.62	1.53
1	M	574	ILE	CA-C	-5.79	1.45	1.52
6	P	267	LEU	N-CA	-5.79	1.38	1.46
2	Q	111	THR	CA-C	-5.79	1.45	1.52
8	e	212	ARG	CA-C	-5.79	1.45	1.52
2	F	600	LEU	CA-CB	5.79	1.62	1.53
8	k	105	ALA	CA-C	-5.79	1.44	1.52
9	p	67	SER	CA-C	-5.79	1.44	1.52
2	F	489	ILE	C-N	5.79	1.42	1.33
2	H	462	LYS	CA-C	5.79	1.59	1.52
1	M	570	ASP	CA-CB	5.79	1.61	1.53
8	h	309	ARG	CD-NE	5.79	1.54	1.46
8	j	385	SER	C-N	5.79	1.41	1.33
8	i	431	LEU	CA-CB	5.79	1.63	1.53
2	F	864	LEU	C-N	5.79	1.41	1.33
6	P	98	PRO	N-CA	-5.79	1.40	1.47
8	f	271	THR	CB-OG1	-5.79	1.34	1.43
8	l	184	GLN	CA-C	-5.79	1.45	1.52
2	D	638	SER	N-CA	-5.78	1.39	1.46
9	q	63	THR	C-N	5.78	1.41	1.33
8	a	61	ILE	CA-CB	5.78	1.59	1.54
8	d	184	GLN	N-CA	-5.78	1.40	1.46
8	n	47	ARG	N-CA	-5.78	1.39	1.46
9	r	57	LEU	CA-CB	5.78	1.62	1.53
1	C	743	LEU	CA-C	5.78	1.60	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	389	GLY	C-N	5.78	1.42	1.33
8	e	204	VAL	CA-C	-5.78	1.45	1.52
1	A	243	ARG	NE-CZ	5.78	1.39	1.33
2	T	26	ALA	CA-C	-5.78	1.45	1.52
8	b	148	GLY	CA-C	-5.78	1.43	1.51
8	d	373	VAL	CA-C	5.78	1.60	1.52
5	L	424	HIS	ND1-CE1	5.78	1.38	1.32
8	l	171	VAL	CA-CB	-5.77	1.47	1.54
1	A	553	LEU	CA-CB	5.77	1.63	1.53
2	H	384	VAL	N-CA	-5.77	1.39	1.46
2	N	873	ARG	NE-CZ	5.77	1.39	1.33
8	a	212	ARG	NE-CZ	5.77	1.39	1.33
8	d	299	GLN	CA-C	-5.77	1.46	1.52
2	H	247	THR	N-CA	-5.77	1.39	1.46
8	h	362	ARG	C-N	5.77	1.42	1.33
9	o	31	MET	CA-C	-5.77	1.45	1.52
1	E	482	ALA	CA-C	-5.77	1.44	1.52
2	F	435	ASP	CA-CB	5.77	1.62	1.53
1	G	706	HIS	C-N	5.77	1.41	1.34
5	L	1367	VAL	CA-CB	5.77	1.61	1.54
8	c	416	ASP	CA-C	-5.77	1.45	1.52
8	n	395	TYR	CA-CB	5.77	1.62	1.53
2	F	809	LYS	CA-C	5.77	1.60	1.52
4	J	259	THR	N-CA	-5.77	1.39	1.46
8	b	293	VAL	N-CA	-5.77	1.39	1.46
8	k	393	ARG	CD-NE	5.77	1.54	1.46
1	M	378	LEU	C-N	5.77	1.42	1.33
7	V	629	MET	N-CA	5.77	1.53	1.46
8	h	249	MET	CA-C	5.77	1.59	1.52
1	E	682	ARG	CA-CB	5.76	1.62	1.53
2	F	415	GLN	CA-CB	5.76	1.62	1.53
4	J	235	HIS	CA-CB	5.76	1.62	1.54
6	P	254	ARG	NE-CZ	5.76	1.39	1.33
9	t	39	ARG	CD-NE	5.76	1.54	1.46
2	F	597	THR	N-CA	-5.76	1.39	1.46
1	G	406	PHE	N-CA	-5.76	1.39	1.46
1	M	749	LYS	CA-CB	5.76	1.62	1.53
8	n	266	LEU	C-O	5.76	1.31	1.24
1	A	332	ARG	CA-C	-5.76	1.44	1.52
8	a	366	TYR	CA-CB	5.76	1.63	1.53
8	i	190	LEU	C-N	5.76	1.42	1.33
8	m	190	LEU	CA-C	-5.76	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	B	247	THR	C-N	5.76	1.41	1.34
2	H	763	LEU	C-N	5.76	1.41	1.33
3	I	367	GLU	CA-CB	5.76	1.62	1.53
2	O	73	LEU	CA-C	-5.76	1.45	1.52
8	a	73	VAL	CA-C	-5.76	1.44	1.52
9	s	60	ALA	CA-C	-5.76	1.45	1.52
4	J	702	MET	CA-C	5.76	1.60	1.52
8	i	61	ILE	CA-CB	5.76	1.61	1.54
2	F	778	PHE	N-CA	-5.76	1.38	1.46
1	G	570	ASP	C-N	5.76	1.42	1.33
4	J	808	ILE	CA-CB	-5.76	1.46	1.53
8	d	278	THR	CA-C	-5.76	1.46	1.53
2	D	278	GLY	CA-C	-5.75	1.43	1.51
1	G	859	TYR	CA-C	5.75	1.60	1.52
3	K	347	GLU	CA-C	-5.75	1.45	1.52
3	K	623	SER	C-N	5.75	1.42	1.34
6	P	191	LYS	C-O	5.75	1.31	1.24
1	A	504	GLU	N-CA	-5.75	1.39	1.46
3	K	166	PRO	N-CD	-5.75	1.39	1.47
1	M	535	GLU	C-N	5.75	1.41	1.34
1	C	486	ARG	NE-CZ	5.75	1.39	1.33
2	F	828	GLU	CA-CB	5.75	1.62	1.53
1	G	701	MET	CA-C	5.75	1.60	1.52
8	a	177	GLU	N-CA	-5.75	1.38	1.45
8	d	363	LYS	CA-C	-5.75	1.45	1.52
1	E	378	LEU	C-N	5.75	1.41	1.33
2	H	256	VAL	C-N	5.75	1.41	1.34
3	K	577	PRO	N-CA	-5.75	1.40	1.47
2	Q	33	GLN	C-N	5.75	1.41	1.33
7	V	661	ARG	NE-CZ	5.75	1.39	1.33
8	l	431	LEU	CA-C	-5.75	1.44	1.52
1	A	521	MET	C-N	5.75	1.41	1.33
3	I	387	VAL	C-O	5.75	1.31	1.24
8	i	387	LEU	C-N	5.75	1.41	1.34
5	L	575	LEU	N-CA	-5.75	1.39	1.46
2	D	668	ARG	CD-NE	5.74	1.54	1.46
2	F	434	TYR	C-N	5.74	1.41	1.33
2	F	573	ILE	C-N	5.74	1.42	1.33
2	Q	47	VAL	N-CA	-5.74	1.39	1.46
8	k	212	ARG	NE-CZ	5.74	1.39	1.33
8	l	284	SER	N-CA	-5.74	1.38	1.46
8	a	315	HIS	C-N	5.74	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	g	77	ILE	CA-C	5.74	1.60	1.52
8	h	435	TYR	C-N	5.74	1.41	1.33
8	m	369	SER	CA-CB	5.74	1.63	1.53
2	B	451	PRO	CA-C	-5.74	1.44	1.52
3	K	361	TYR	CA-C	-5.74	1.46	1.52
8	b	105	ALA	CA-C	-5.74	1.44	1.52
8	c	149	LEU	N-CA	-5.74	1.38	1.46
8	j	369	SER	N-CA	-5.74	1.38	1.46
8	k	347	ASN	CA-C	-5.74	1.45	1.52
8	k	270	MET	N-CA	-5.74	1.38	1.46
8	n	77	ILE	CA-C	-5.74	1.45	1.52
1	G	831	PHE	CA-C	-5.74	1.45	1.52
2	N	740	ALA	CA-C	-5.74	1.45	1.52
7	U	634	HIS	CB-CG	5.74	1.58	1.50
8	m	158	ASN	C-N	5.74	1.43	1.33
1	G	230	ARG	CA-C	-5.73	1.44	1.52
6	P	241	GLU	CA-C	-5.73	1.45	1.52
8	l	44	GLY	CA-C	-5.73	1.43	1.51
3	I	626	PHE	CA-CB	5.73	1.62	1.53
8	g	342	GLU	CA-CB	5.73	1.62	1.53
1	E	740	ASN	N-CA	-5.73	1.38	1.46
4	J	921	LEU	N-CA	-5.73	1.39	1.46
8	j	343	ARG	C-N	5.73	1.41	1.33
1	C	724	HIS	CG-CD2	5.73	1.42	1.35
8	c	228	ILE	CA-C	-5.73	1.45	1.52
2	H	539	ASP	CA-C	-5.73	1.44	1.52
3	I	28	SER	CA-C	-5.73	1.46	1.53
8	i	53	TYR	CA-C	-5.73	1.44	1.52
1	M	276	VAL	CA-CB	5.72	1.61	1.54
1	M	326	TYR	C-N	5.72	1.41	1.34
2	N	619	ARG	CZ-NH2	5.72	1.40	1.33
8	d	270	MET	CA-CB	5.72	1.62	1.53
8	i	219	HIS	ND1-CE1	5.72	1.38	1.32
8	n	139	HIS	CD2-NE2	5.72	1.44	1.37
1	A	357	LEU	CA-C	-5.72	1.45	1.52
1	A	628	ILE	N-CA	-5.72	1.39	1.46
2	B	673	GLU	CA-C	-5.72	1.45	1.52
8	m	387	LEU	CA-CB	5.72	1.62	1.53
2	D	581	LYS	CA-CB	5.72	1.62	1.53
2	B	362	THR	CA-C	-5.72	1.45	1.52
1	E	660	SER	CA-C	5.72	1.60	1.52
2	H	252	ASP	CA-CB	5.72	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	N	333	GLU	CA-CB	5.72	1.63	1.53
7	U	615	ARG	CA-C	-5.72	1.45	1.52
8	f	354	ALA	C-N	5.72	1.41	1.33
9	q	34	LEU	N-CA	-5.72	1.39	1.46
8	i	309	ARG	CD-NE	5.72	1.54	1.46
4	J	899	ARG	CA-CB	5.72	1.62	1.53
2	N	882	ASN	CA-C	-5.72	1.45	1.52
8	l	50	VAL	CA-CB	-5.72	1.46	1.54
8	m	261	ILE	C-N	-5.72	1.27	1.34
8	n	170	SER	C-N	5.72	1.40	1.33
2	Q	49	ARG	NE-CZ	5.71	1.39	1.33
8	j	31	ILE	CA-C	-5.71	1.46	1.52
1	C	721	VAL	N-CA	-5.71	1.39	1.46
2	F	793	ARG	CD-NE	5.71	1.54	1.46
8	d	370	ALA	N-CA	-5.71	1.38	1.46
8	k	339	ARG	C-O	-5.71	1.16	1.24
8	m	362	ARG	CA-C	-5.71	1.45	1.52
2	D	518	ALA	N-CA	-5.71	1.39	1.46
2	N	505	ALA	CA-C	5.71	1.60	1.52
8	j	342	GLU	CA-CB	5.71	1.62	1.53
8	k	12	GLN	CA-CB	5.71	1.62	1.53
8	m	27	ALA	CA-CB	5.71	1.62	1.53
8	m	50	VAL	CA-C	5.71	1.60	1.52
8	m	183	VAL	N-CA	-5.71	1.38	1.46
2	D	804	GLN	CA-CB	5.71	1.62	1.53
8	k	366	TYR	CA-C	5.71	1.60	1.52
1	A	612	LEU	CA-CB	5.71	1.63	1.53
1	A	855	ILE	C-N	5.71	1.41	1.33
8	f	389	GLU	CA-CB	5.71	1.62	1.53
8	l	386	SER	N-CA	5.71	1.53	1.46
8	m	246	PRO	CA-C	-5.71	1.45	1.52
2	N	575	HIS	CG-ND1	5.71	1.44	1.38
7	W	652	SER	C-N	5.71	1.41	1.33
8	b	28	GLU	CA-CB	5.71	1.62	1.53
8	g	124	ARG	CD-NE	5.71	1.54	1.46
1	C	546	ILE	N-CA	-5.71	1.39	1.46
1	M	331	LEU	CA-CB	5.71	1.62	1.53
7	V	620	ARG	C-N	5.71	1.41	1.33
1	C	850	CYS	C-N	5.70	1.41	1.33
2	F	496	CYS	CA-CB	5.70	1.62	1.53
7	V	634	HIS	CE1-NE2	-5.70	1.26	1.32
8	h	284	SER	N-CA	-5.70	1.38	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	k	112	GLU	CA-C	5.70	1.60	1.52
3	K	181	GLY	CA-C	-5.70	1.44	1.51
6	P	222	ASP	CA-CB	5.70	1.63	1.53
8	a	25	LEU	CA-C	-5.70	1.45	1.52
8	j	111	GLY	CA-C	-5.70	1.43	1.51
2	H	402	TYR	CA-CB	5.70	1.63	1.53
3	K	3	HIS	CB-CG	-5.70	1.42	1.50
3	K	139	VAL	C-N	5.70	1.40	1.33
2	B	562	ARG	CD-NE	5.70	1.54	1.46
2	D	612	ASP	N-CA	-5.70	1.38	1.46
2	H	515	PRO	N-CA	5.70	1.55	1.47
1	M	708	LEU	CA-CB	5.70	1.62	1.53
3	K	576	LYS	CA-CB	5.70	1.62	1.53
2	N	713	PHE	C-N	5.70	1.41	1.33
1	E	393	TRP	N-CA	-5.70	1.38	1.46
2	N	755	ASP	CA-CB	-5.70	1.45	1.54
8	d	273	TYR	N-CA	-5.70	1.39	1.46
8	k	207	ASN	C-N	5.70	1.41	1.33
5	L	330	GLU	C-N	5.69	1.42	1.33
2	T	19	ARG	C-N	5.69	1.41	1.33
2	D	386	HIS	CA-C	-5.69	1.45	1.52
3	I	531	LEU	CA-C	-5.69	1.45	1.52
5	L	156	GLN	N-CA	5.69	1.53	1.45
2	S	86	VAL	C-N	5.69	1.41	1.33
8	i	394	GLN	C-N	5.69	1.41	1.33
2	D	561	MET	C-O	-5.69	1.17	1.24
2	D	659	TYR	CA-C	-5.69	1.45	1.52
5	L	1549	ARG	CD-NE	5.69	1.54	1.46
8	h	158	ASN	N-CA	-5.69	1.39	1.46
1	A	622	LYS	C-N	5.69	1.41	1.33
5	L	213	ARG	CA-C	-5.69	1.45	1.52
8	h	263	THR	N-CA	5.69	1.53	1.46
1	C	502	LEU	CB-CG	5.69	1.64	1.53
2	D	365	ARG	CZ-NH1	5.69	1.40	1.32
2	F	839	ILE	CA-CB	-5.69	1.46	1.54
1	G	627	LEU	C-N	5.69	1.41	1.33
8	e	339	ARG	CZ-NH2	5.69	1.40	1.33
2	B	869	ASP	C-N	5.69	1.40	1.33
2	S	78	HIS	CE1-NE2	5.69	1.38	1.32
8	n	355	SER	CA-C	-5.69	1.45	1.52
3	K	395	ALA	C-N	5.68	1.41	1.34
2	N	755	ASP	N-CA	-5.68	1.38	1.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	l	16	GLN	C-N	5.68	1.40	1.33
8	l	222	ASN	N-CA	-5.68	1.38	1.46
2	N	540	THR	CA-CB	5.68	1.62	1.53
8	c	39	GLU	CA-C	-5.68	1.44	1.52
3	K	122	ILE	N-CA	-5.68	1.39	1.46
8	b	38	GLU	CA-C	-5.68	1.45	1.52
8	h	160	ARG	CA-CB	-5.68	1.45	1.54
1	E	834	HIS	C-N	5.68	1.41	1.33
1	G	834	HIS	C-N	5.68	1.42	1.33
3	I	258	SER	CA-C	-5.68	1.45	1.52
3	K	137	MET	CA-C	-5.68	1.45	1.52
5	L	364	VAL	C-O	-5.68	1.18	1.24
3	I	107	LEU	C-N	5.68	1.41	1.33
8	k	390	ARG	CA-CB	5.68	1.62	1.53
1	C	247	VAL	C-N	5.68	1.40	1.33
1	C	467	THR	CA-C	-5.68	1.45	1.53
1	E	288	ASN	CB-CG	5.68	1.66	1.52
1	M	444	LYS	C-N	5.68	1.41	1.33
8	a	425	ARG	C-N	5.68	1.42	1.33
8	m	273	TYR	N-CA	-5.68	1.39	1.46
1	G	627	LEU	CA-CB	5.67	1.63	1.53
8	b	263	THR	CA-C	5.67	1.59	1.52
8	d	104	TRP	N-CA	-5.67	1.39	1.46
8	d	408	PHE	CA-CB	5.67	1.63	1.54
8	h	286	ARG	N-CA	-5.67	1.39	1.46
2	H	365	ARG	N-CA	-5.67	1.39	1.46
8	f	66	LEU	CA-C	-5.67	1.46	1.53
2	D	269	ASN	N-CA	-5.67	1.38	1.46
5	L	325	LEU	N-CA	-5.67	1.39	1.46
8	j	248	TYR	CA-CB	5.67	1.63	1.53
3	K	192	LEU	N-CA	-5.67	1.38	1.46
1	M	624	PRO	N-CA	-5.67	1.37	1.47
8	f	114	ILE	CA-CB	-5.67	1.46	1.54
9	q	58	ARG	CA-CB	5.67	1.62	1.53
2	B	650	VAL	CA-CB	-5.67	1.48	1.54
1	G	636	ARG	C-N	5.67	1.42	1.33
5	L	224	ARG	CA-C	-5.67	1.45	1.52
8	k	137	LEU	CA-CB	5.67	1.60	1.52
8	f	75	HIS	CE1-NE2	-5.67	1.26	1.32
8	j	119	PHE	C-N	5.67	1.42	1.33
9	t	36	ILE	CA-C	5.67	1.59	1.52
2	D	434	TYR	C-N	5.67	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	933	HIS	C-N	5.67	1.41	1.34
1	E	368	ASP	N-CA	-5.66	1.40	1.46
2	F	611	PHE	CA-CB	-5.66	1.46	1.54
8	k	390	ARG	CD-NE	5.66	1.54	1.46
1	A	311	HIS	CA-C	-5.66	1.45	1.52
8	e	26	CYS	N-CA	-5.66	1.38	1.46
8	f	233	SER	CA-CB	5.66	1.62	1.53
9	r	8	MET	C-O	-5.66	1.17	1.24
2	B	336	ARG	NE-CZ	5.66	1.39	1.33
2	F	366	LEU	CA-CB	5.66	1.63	1.53
8	a	261	ILE	CA-C	5.66	1.58	1.52
8	c	273	TYR	CA-C	-5.66	1.46	1.52
8	j	81	PRO	N-CA	5.66	1.54	1.47
2	B	637	PHE	CA-CB	5.66	1.61	1.53
8	l	306	SER	CA-CB	5.66	1.60	1.53
8	d	156	ARG	N-CA	-5.66	1.38	1.46
8	j	363	LYS	CA-C	-5.66	1.45	1.52
8	l	156	ARG	CA-C	-5.66	1.44	1.52
1	A	347	GLY	CA-C	-5.66	1.44	1.51
8	i	64	ALA	N-CA	-5.66	1.39	1.46
8	d	380	ASN	N-CA	-5.65	1.39	1.47
2	B	797	GLU	N-CA	-5.65	1.39	1.46
8	f	328	VAL	CA-C	-5.65	1.45	1.52
8	g	193	LYS	CA-C	-5.65	1.45	1.52
8	k	318	ILE	CA-C	-5.65	1.47	1.52
8	m	289	THR	C-N	5.65	1.40	1.34
1	C	607	LEU	CA-C	-5.65	1.45	1.52
1	E	492	ASN	CA-C	5.65	1.60	1.52
2	F	707	ALA	CA-C	-5.65	1.45	1.52
8	e	202	VAL	N-CA	-5.65	1.39	1.46
8	h	20	GLU	CA-C	-5.65	1.45	1.52
8	j	356	ILE	CA-C	-5.65	1.46	1.52
8	k	420	GLU	N-CA	-5.65	1.39	1.46
8	m	72	ARG	CD-NE	5.65	1.54	1.46
3	I	156	THR	C-N	5.65	1.40	1.33
8	c	414	PHE	CA-CB	5.65	1.66	1.53
8	k	335	LYS	CA-C	-5.65	1.45	1.52
1	G	348	GLU	N-CA	-5.65	1.39	1.46
2	H	248	SER	C-N	5.65	1.42	1.33
2	B	463	TYR	CA-CB	5.65	1.63	1.53
1	C	349	CYS	N-CA	-5.65	1.38	1.45
1	M	296	ARG	NE-CZ	5.65	1.39	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	W	631	LYS	CA-CB	5.65	1.62	1.53
8	k	401	ARG	CZ-NH2	5.65	1.40	1.33
8	m	28	GLU	CA-CB	5.65	1.62	1.53
9	s	32	GLU	CA-C	-5.65	1.45	1.52
2	B	672	MET	C-N	5.64	1.41	1.33
1	C	430	ARG	CA-C	-5.64	1.45	1.52
2	D	643	VAL	CA-C	-5.64	1.46	1.52
8	b	192	LEU	CA-CB	5.64	1.62	1.53
8	h	37	VAL	CA-C	-5.64	1.46	1.52
2	F	821	THR	C-N	5.64	1.42	1.33
1	M	245	PHE	C-N	5.64	1.43	1.33
7	W	653	LEU	CA-CB	5.64	1.62	1.53
8	l	46	ASP	N-CA	5.64	1.52	1.46
8	n	312	GLN	N-CA	-5.64	1.38	1.46
2	D	806	GLU	N-CA	-5.64	1.39	1.46
2	F	883	GLU	CA-CB	5.64	1.62	1.53
8	a	287	LYS	C-N	5.64	1.41	1.33
2	F	650	VAL	CA-CB	5.64	1.61	1.54
3	I	562	HIS	ND1-CE1	5.64	1.38	1.32
2	N	739	LYS	CA-CB	5.64	1.62	1.53
8	h	3	ARG	CD-NE	5.64	1.54	1.46
2	B	477	ASP	CA-C	-5.64	1.44	1.52
1	C	311	HIS	CG-CD2	5.64	1.42	1.35
3	I	365	ARG	CA-CB	5.64	1.59	1.53
1	M	262	ILE	N-CA	-5.64	1.39	1.46
8	e	275	PRO	CA-CB	5.64	1.59	1.54
8	m	148	GLY	N-CA	5.64	1.53	1.45
2	B	661	ARG	C-N	5.63	1.40	1.34
1	C	289	HIS	C-N	5.63	1.42	1.33
8	c	380	ASN	N-CA	-5.63	1.39	1.47
8	e	378	MET	CA-C	-5.63	1.45	1.53
8	h	293	VAL	N-CA	5.63	1.53	1.46
8	m	393	ARG	CD-NE	5.63	1.54	1.46
1	M	486	ARG	CZ-NH2	5.63	1.40	1.33
1	C	246	SER	N-CA	-5.63	1.40	1.46
2	D	814	SER	CA-CB	5.63	1.62	1.53
1	E	847	THR	C-N	5.63	1.41	1.33
8	a	29	HIS	CB-CG	5.63	1.58	1.50
8	b	115	HIS	C-N	5.63	1.41	1.33
8	h	313	THR	C-O	5.63	1.30	1.24
8	k	408	PHE	CA-C	5.63	1.60	1.52
2	B	316	PHE	CA-CB	5.63	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	752	VAL	CA-C	-5.63	1.45	1.52
3	I	288	ASN	CA-CB	5.63	1.62	1.53
2	N	810	LYS	CA-C	-5.63	1.44	1.52
1	E	324	TRP	CZ2-CH2	5.63	1.48	1.37
8	f	373	VAL	C-O	-5.63	1.18	1.24
8	j	45	THR	N-CA	5.63	1.53	1.46
8	k	133	GLU	CA-C	-5.63	1.45	1.52
3	I	160	HIS	CD2-NE2	5.63	1.44	1.37
1	M	211	SER	N-CA	-5.63	1.39	1.46
2	N	834	GLU	C-N	5.63	1.41	1.33
8	j	75	HIS	ND1-CE1	5.63	1.38	1.32
8	g	372	ARG	CZ-NH2	5.62	1.40	1.33
2	H	513	GLU	CA-CB	5.62	1.62	1.53
1	M	314	ARG	CZ-NH2	5.62	1.40	1.33
8	f	246	PRO	N-CA	5.62	1.53	1.47
9	o	39	ARG	CD-NE	5.62	1.54	1.46
5	L	337	SER	C-N	5.62	1.40	1.33
6	P	37	ARG	CD-NE	5.62	1.54	1.46
2	R	19	ARG	NE-CZ	5.62	1.39	1.33
8	g	18	GLY	N-CA	5.62	1.53	1.45
8	h	134	GLY	N-CA	-5.62	1.39	1.45
8	k	293	VAL	CA-CB	-5.62	1.47	1.54
2	H	826	ASP	CA-CB	5.62	1.62	1.53
4	J	899	ARG	CD-NE	5.62	1.54	1.46
1	M	430	ARG	NE-CZ	5.62	1.39	1.33
8	h	59	HIS	CA-C	5.62	1.59	1.52
8	i	127	ASP	CA-CB	5.62	1.62	1.53
8	k	322	ASN	C-N	5.62	1.40	1.33
3	I	413	LEU	N-CA	5.62	1.52	1.46
3	K	312	HIS	ND1-CE1	5.62	1.38	1.32
2	O	62	PHE	C-N	5.62	1.41	1.33
3	I	487	VAL	C-N	5.62	1.41	1.33
8	b	380	ASN	CA-CB	5.62	1.60	1.52
1	C	355	LEU	CA-CB	5.61	1.62	1.53
1	G	497	VAL	N-CA	-5.61	1.40	1.46
1	M	569	LYS	N-CA	-5.61	1.39	1.46
2	S	90	ARG	CA-C	-5.61	1.45	1.52
5	L	1661	TYR	CA-C	-5.61	1.45	1.52
2	F	312	LEU	C-N	5.61	1.41	1.33
1	G	521	MET	CA-C	5.61	1.60	1.53
4	J	366	LYS	N-CA	5.61	1.53	1.46
1	M	472	LYS	CA-CB	5.61	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	b	341	ARG	CD-NE	5.61	1.54	1.46
1	C	567	PRO	C-N	5.61	1.41	1.33
3	K	30	ASP	C-N	-5.61	1.27	1.33
1	C	511	HIS	C-N	5.61	1.41	1.34
2	D	835	PHE	CA-C	-5.61	1.45	1.52
1	G	568	PHE	C-N	5.61	1.41	1.33
2	N	326	ALA	C-O	-5.61	1.17	1.24
8	d	339	ARG	N-CA	-5.61	1.38	1.46
8	m	421	LEU	CA-C	-5.61	1.45	1.52
1	A	468	CYS	C-N	5.60	1.41	1.33
8	d	425	ARG	NE-CZ	5.60	1.39	1.33
8	g	252	ASP	CA-C	-5.60	1.45	1.52
9	t	12	ARG	C-N	5.60	1.41	1.33
1	E	694	TYR	CA-C	-5.60	1.45	1.52
8	a	400	LYS	CA-C	-5.60	1.45	1.52
8	b	339	ARG	CD-NE	5.60	1.54	1.46
8	g	225	PHE	CA-CB	5.60	1.60	1.52
1	G	400	ASN	C-N	5.60	1.41	1.33
3	I	400	ALA	CA-C	-5.60	1.45	1.52
8	c	75	HIS	C-N	5.60	1.40	1.33
8	m	309	ARG	N-CA	-5.60	1.38	1.46
1	C	531	MET	CA-CB	5.60	1.62	1.53
2	H	578	ASP	C-N	-5.60	1.26	1.34
5	L	557	ASN	C-O	-5.60	1.17	1.24
8	h	50	VAL	CA-C	-5.60	1.45	1.52
8	i	257	ILE	C-N	5.60	1.41	1.34
8	l	238	ALA	N-CA	-5.60	1.39	1.46
8	m	75	HIS	ND1-CE1	5.60	1.38	1.32
4	J	789	HIS	CA-C	-5.60	1.45	1.52
8	b	350	PRO	CA-C	-5.60	1.45	1.52
8	n	410	LYS	C-O	-5.60	1.18	1.24
6	P	37	ARG	NE-CZ	5.59	1.39	1.33
8	a	162	PRO	CA-C	-5.59	1.47	1.52
8	e	60	TYR	CA-C	-5.59	1.45	1.52
1	C	485	GLU	C-N	5.59	1.41	1.34
2	D	553	ASN	CA-C	-5.59	1.48	1.53
1	M	652	ARG	CA-CB	5.59	1.62	1.53
2	N	704	HIS	CG-ND1	5.59	1.44	1.38
6	P	87	HIS	CG-CD2	-5.59	1.29	1.35
8	e	122	ILE	CB-CG1	5.59	1.64	1.53
9	t	62	ASP	CA-CB	5.59	1.62	1.53
2	H	500	THR	CA-CB	5.59	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	461	TRP	CA-C	-5.59	1.46	1.52
8	d	341	ARG	CZ-NH1	5.59	1.40	1.32
8	h	139	HIS	ND1-CE1	5.59	1.38	1.32
8	i	381	HIS	ND1-CE1	5.59	1.38	1.32
8	m	334	HIS	ND1-CE1	5.59	1.38	1.32
1	G	287	VAL	CA-CB	-5.59	1.48	1.54
8	i	182	VAL	CA-C	5.59	1.59	1.52
1	G	617	PHE	CA-C	-5.59	1.46	1.52
4	J	993	LEU	CA-C	5.58	1.60	1.52
8	l	273	TYR	N-CA	-5.58	1.39	1.46
2	D	764	ASP	C-O	-5.58	1.17	1.24
1	G	832	SER	C-N	5.58	1.41	1.34
8	a	225	PHE	CA-CB	5.58	1.59	1.52
8	j	159	ASP	CA-C	-5.58	1.45	1.52
8	j	190	LEU	CA-C	-5.58	1.45	1.52
8	k	139	HIS	CA-CB	5.58	1.63	1.53
2	D	717	MET	CA-C	-5.58	1.46	1.53
1	M	564	ASN	C-N	5.58	1.40	1.33
8	b	208	THR	N-CA	-5.58	1.38	1.46
8	m	216	ASP	CA-C	-5.58	1.45	1.52
2	H	794	ALA	N-CA	5.58	1.53	1.46
4	J	568	LEU	CA-C	-5.58	1.45	1.53
8	k	358	VAL	N-CA	-5.58	1.39	1.46
1	G	349	CYS	C-N	5.58	1.41	1.33
4	J	946	LYS	CA-C	-5.58	1.45	1.52
8	b	339	ARG	NE-CZ	5.58	1.39	1.33
8	d	61	ILE	CB-CG1	5.58	1.64	1.53
8	h	134	GLY	C-O	-5.58	1.16	1.23
2	B	246	GLU	CA-CB	5.57	1.64	1.53
2	F	286	LEU	CA-CB	5.57	1.62	1.53
4	J	705	LEU	C-N	-5.57	1.25	1.33
3	K	358	LYS	CA-C	-5.57	1.45	1.52
6	P	234	SER	CA-CB	5.57	1.61	1.53
8	b	75	HIS	C-N	5.57	1.41	1.33
3	I	582	LEU	CA-CB	5.57	1.62	1.53
5	L	1553	GLN	CA-C	-5.57	1.45	1.52
8	f	408	PHE	N-CA	-5.57	1.39	1.46
2	H	414	VAL	CA-CB	-5.57	1.47	1.54
8	a	161	TYR	C-N	5.57	1.38	1.33
8	d	250	ASN	CG-ND2	5.57	1.45	1.33
1	E	836	MET	C-N	5.57	1.42	1.33
2	F	605	ARG	CD-NE	5.57	1.54	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	H	748	ALA	CA-C	-5.57	1.45	1.52
8	b	436	HIS	ND1-CE1	5.57	1.38	1.32
8	e	227	GLN	CA-CB	5.57	1.62	1.53
2	O	77	LEU	CA-CB	5.57	1.61	1.53
8	l	316	CYS	CA-C	-5.57	1.45	1.52
8	n	334	HIS	ND1-CE1	5.57	1.38	1.32
2	H	506	MET	CA-C	-5.57	1.44	1.52
3	I	105	LEU	CA-CB	5.57	1.62	1.53
3	I	603	LEU	C-N	5.57	1.41	1.33
5	L	447	CYS	N-CA	-5.57	1.39	1.46
8	e	174	ASN	N-CA	-5.57	1.39	1.46
8	l	302	ASN	C-N	5.57	1.40	1.33
8	n	181	VAL	N-CA	-5.57	1.39	1.46
4	J	358	GLN	CA-C	-5.56	1.45	1.52
3	K	181	GLY	N-CA	5.56	1.52	1.45
8	g	128	GLY	CA-C	-5.56	1.44	1.51
8	h	35	GLY	C-N	5.56	1.40	1.33
8	l	393	ARG	NE-CZ	5.56	1.39	1.33
1	A	700	VAL	N-CA	-5.56	1.39	1.46
5	L	1592	HIS	CE1-NE2	-5.56	1.26	1.32
8	g	381	HIS	CA-C	5.56	1.59	1.52
1	E	430	ARG	CA-CB	5.56	1.62	1.53
1	M	630	ASN	CA-C	-5.56	1.45	1.52
8	m	45	THR	CA-C	-5.56	1.46	1.52
2	H	643	VAL	CA-C	-5.55	1.46	1.52
2	H	779	ASP	N-CA	-5.55	1.38	1.46
3	I	635	HIS	CB-CG	5.55	1.57	1.50
3	K	116	HIS	C-N	5.55	1.41	1.33
3	K	627	ARG	NE-CZ	5.55	1.39	1.33
8	c	332	GLN	C-N	5.55	1.40	1.33
8	d	81	PRO	CA-C	5.55	1.57	1.52
2	B	475	THR	C-N	5.55	1.42	1.33
2	B	560	ALA	N-CA	-5.55	1.39	1.46
1	G	311	HIS	CE1-NE2	5.55	1.38	1.32
4	J	482	PHE	CA-C	-5.55	1.45	1.52
8	f	212	ARG	NE-CZ	5.55	1.39	1.33
8	l	203	VAL	N-CA	5.55	1.54	1.46
1	A	724	HIS	CA-C	-5.55	1.45	1.52
2	D	432	TRP	CA-CB	5.55	1.62	1.53
8	e	190	LEU	C-N	5.55	1.42	1.33
8	g	296	ARG	CD-NE	5.55	1.54	1.46
8	h	48	LYS	CA-CB	5.55	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	i	159	ASP	CA-CB	5.55	1.62	1.53
8	n	267	HIS	ND1-CE1	5.55	1.38	1.32
2	H	383	LEU	C-N	5.55	1.41	1.33
2	N	882	ASN	N-CA	-5.55	1.39	1.46
8	m	377	MET	N-CA	-5.55	1.39	1.46
9	s	24	LEU	N-CA	-5.55	1.39	1.46
1	C	615	PHE	C-N	5.55	1.40	1.33
8	j	268	PHE	N-CA	-5.55	1.39	1.46
1	G	312	LEU	CB-CG	5.54	1.64	1.53
8	f	334	HIS	CA-C	-5.54	1.45	1.52
8	j	234	THR	C-N	5.54	1.40	1.34
1	A	652	ARG	NE-CZ	5.54	1.39	1.33
1	G	634	LEU	C-N	5.54	1.41	1.34
7	W	626	GLN	CA-C	-5.54	1.45	1.52
8	f	307	THR	CA-C	-5.54	1.45	1.52
1	A	618	ASP	CA-C	-5.54	1.45	1.52
2	B	723	PHE	CA-CB	5.54	1.62	1.53
1	G	651	GLU	CA-C	-5.54	1.45	1.52
8	b	31	ILE	CA-C	-5.54	1.46	1.52
8	i	332	GLN	CA-C	-5.54	1.45	1.52
8	j	55	ALA	N-CA	5.54	1.52	1.46
8	l	298	LEU	CA-C	-5.54	1.46	1.52
8	l	430	GLN	C-N	5.54	1.42	1.33
8	e	174	ASN	CA-C	-5.54	1.46	1.52
8	m	96	HIS	CG-CD2	5.54	1.42	1.35
8	m	299	GLN	CA-C	-5.54	1.44	1.52
3	K	120	SER	CA-CB	5.54	1.62	1.53
5	L	410	ARG	NE-CZ	5.54	1.39	1.33
8	a	424	SER	C-O	-5.54	1.17	1.24
8	m	234	THR	C-N	5.54	1.40	1.34
2	H	274	TYR	CZ-OH	5.54	1.49	1.38
2	D	300	HIS	CA-CB	5.54	1.62	1.53
3	I	537	GLU	C-N	5.54	1.40	1.33
8	h	393	ARG	CZ-NH2	5.54	1.40	1.33
8	i	38	GLU	CA-C	-5.54	1.45	1.52
8	j	432	ILE	N-CA	-5.54	1.39	1.46
2	F	781	ILE	N-CA	5.53	1.53	1.46
5	L	456	THR	C-N	5.53	1.41	1.33
8	m	186	TYR	CA-C	-5.53	1.45	1.52
2	D	498	ASP	CA-CB	5.53	1.62	1.53
1	E	839	LEU	N-CA	5.53	1.53	1.46
1	G	346	LYS	CA-C	-5.53	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	317	GLN	N-CA	5.53	1.52	1.45
4	J	933	HIS	CA-C	-5.53	1.45	1.52
8	d	364	SER	CA-CB	5.53	1.62	1.53
8	g	316	CYS	N-CA	-5.53	1.39	1.46
8	j	333	VAL	N-CA	-5.53	1.39	1.46
2	B	383	LEU	C-N	5.53	1.40	1.33
2	D	539	ASP	N-CA	-5.53	1.39	1.46
1	G	859	TYR	N-CA	-5.53	1.39	1.46
4	J	407	VAL	CA-C	5.53	1.60	1.52
2	N	496	CYS	CA-CB	5.53	1.62	1.53
2	T	76	GLU	CA-C	-5.53	1.45	1.52
2	F	581	LYS	N-CA	-5.53	1.41	1.46
3	I	114	ASP	CA-C	5.53	1.57	1.52
2	N	574	ARG	CZ-NH2	5.53	1.40	1.33
6	P	116	ARG	N-CA	-5.53	1.39	1.46
8	f	436	HIS	ND1-CE1	5.53	1.38	1.32
8	n	202	VAL	CA-C	5.53	1.59	1.52
8	n	371	HIS	CA-C	-5.53	1.45	1.52
2	B	841	LYS	CA-CB	5.52	1.62	1.53
2	S	100	LEU	C-N	5.52	1.40	1.33
3	K	116	HIS	N-CA	5.52	1.52	1.46
8	e	287	LYS	CA-C	-5.52	1.45	1.52
9	o	39	ARG	NE-CZ	5.52	1.39	1.33
3	I	344	MET	C-N	5.52	1.40	1.33
4	J	715	LEU	CA-CB	5.52	1.62	1.53
3	K	91	ARG	NE-CZ	5.52	1.39	1.33
8	f	161	TYR	N-CA	-5.52	1.41	1.46
8	i	38	GLU	N-CA	-5.52	1.39	1.45
8	d	3	ARG	C-N	5.52	1.41	1.33
5	L	397	LEU	CA-C	5.52	1.59	1.52
7	V	662	GLU	C-N	5.52	1.41	1.33
8	h	371	HIS	C-N	5.52	1.41	1.33
8	h	411	GLU	C-N	5.52	1.41	1.33
2	B	373	PRO	C-N	5.51	1.40	1.33
2	F	545	LEU	C-N	5.51	1.41	1.33
3	I	488	GLN	N-CA	-5.51	1.39	1.46
4	J	319	VAL	N-CA	-5.51	1.39	1.46
8	l	175	GLN	N-CA	5.51	1.53	1.46
8	m	85	LEU	C-N	5.51	1.40	1.33
1	G	606	GLU	CA-C	-5.51	1.45	1.52
8	n	42	THR	CB-OG1	-5.51	1.34	1.43
1	A	445	VAL	CA-CB	5.51	1.61	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	448	LYS	CA-C	-5.51	1.45	1.52
2	N	476	MET	C-N	5.51	1.41	1.34
8	e	250	ASN	CA-CB	5.51	1.62	1.53
8	i	277	THR	CA-C	-5.51	1.46	1.52
8	n	217	ARG	CZ-NH2	5.51	1.40	1.33
1	A	374	LEU	CA-C	-5.51	1.45	1.52
2	D	587	PRO	C-N	5.51	1.41	1.33
3	K	557	ARG	CD-NE	5.51	1.53	1.46
2	N	716	GLN	CA-C	-5.51	1.45	1.52
2	O	19	ARG	N-CA	-5.51	1.39	1.46
8	c	4	GLU	N-CA	-5.51	1.39	1.46
8	g	289	THR	CA-C	5.51	1.60	1.52
8	i	46	ASP	CA-CB	5.51	1.62	1.53
8	n	222	ASN	CA-CB	5.51	1.63	1.53
1	E	730	ASP	CA-CB	5.51	1.62	1.53
4	J	590	LEU	CA-CB	5.51	1.61	1.53
2	N	666	LEU	N-CA	-5.51	1.39	1.46
8	g	220	ILE	N-CA	-5.51	1.39	1.46
1	M	833	ALA	CA-C	-5.51	1.45	1.52
8	b	61	ILE	N-CA	-5.51	1.42	1.46
8	l	310	ASP	CA-CB	5.51	1.61	1.53
8	a	86	TYR	CA-CB	5.50	1.62	1.53
8	l	127	ASP	CA-CB	5.50	1.62	1.53
8	l	415	LYS	CA-CB	5.50	1.62	1.53
1	E	750	LEU	N-CA	-5.50	1.39	1.46
1	G	763	ARG	NE-CZ	5.50	1.39	1.33
8	h	44	GLY	CA-C	-5.50	1.44	1.51
2	D	865	THR	C-N	5.50	1.40	1.33
2	F	653	ARG	CD-NE	5.50	1.53	1.46
3	K	399	SER	CA-C	-5.50	1.45	1.52
8	f	3	ARG	NE-CZ	5.50	1.39	1.33
2	B	625	LEU	CA-C	-5.50	1.45	1.52
2	N	255	TYR	C-N	5.50	1.40	1.33
2	N	718	GLN	CA-CB	5.50	1.62	1.53
8	d	334	HIS	CE1-NE2	5.50	1.38	1.32
8	f	360	LEU	CB-CG	5.50	1.64	1.53
1	A	354	THR	CA-C	-5.50	1.46	1.52
1	C	658	TRP	C-N	5.50	1.40	1.33
1	E	240	ARG	CA-CB	5.50	1.62	1.53
2	F	678	ASP	CA-C	-5.50	1.45	1.52
1	G	480	GLU	CA-CB	5.50	1.62	1.53
2	H	502	ALA	C-N	5.50	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	630	SER	C-N	5.50	1.42	1.33
3	K	340	LEU	N-CA	-5.50	1.38	1.46
2	N	441	THR	CA-C	-5.50	1.48	1.52
8	c	174	ASN	N-CA	5.50	1.53	1.46
1	C	290	ALA	N-CA	-5.50	1.39	1.46
2	B	603	ALA	C-N	5.50	1.40	1.33
7	V	605	ASN	N-CA	-5.50	1.39	1.46
8	k	215	THR	CA-C	-5.50	1.45	1.52
8	b	344	LYS	CA-C	-5.49	1.46	1.53
8	e	139	HIS	ND1-CE1	5.49	1.38	1.32
8	g	238	ALA	C-N	5.49	1.42	1.33
8	l	305	VAL	CA-C	-5.49	1.45	1.52
8	m	205	LEU	CA-C	-5.49	1.46	1.52
8	d	60	TYR	CA-C	5.49	1.59	1.52
2	D	614	PRO	CA-C	-5.49	1.46	1.52
3	K	528	GLN	CA-C	5.49	1.60	1.52
5	L	251	PRO	CA-CB	5.49	1.61	1.53
5	L	329	HIS	C-N	5.49	1.41	1.33
6	P	151	ILE	N-CA	-5.49	1.40	1.46
8	n	246	PRO	CA-C	-5.49	1.46	1.52
9	p	45	ILE	CA-C	-5.49	1.46	1.52
1	C	278	GLU	CA-C	-5.49	1.46	1.52
2	F	619	ARG	CA-CB	5.49	1.61	1.53
5	L	1362	LEU	C-O	5.49	1.30	1.24
8	f	60	TYR	CA-CB	5.49	1.61	1.53
9	t	28	GLY	CA-C	-5.49	1.44	1.51
2	H	467	LYS	CA-C	-5.49	1.45	1.52
8	a	63	ARG	CD-NE	5.49	1.53	1.46
8	a	386	SER	C-N	5.49	1.41	1.33
8	g	309	ARG	C-O	-5.49	1.17	1.24
1	G	473	GLU	N-CA	-5.49	1.39	1.46
1	M	323	LEU	N-CA	-5.49	1.38	1.46
2	N	280	VAL	C-N	5.49	1.41	1.33
8	a	249	MET	C-N	5.49	1.40	1.33
8	k	310	ASP	CA-CB	5.49	1.62	1.53
8	m	186	TYR	C-N	5.49	1.42	1.33
8	a	180	HIS	ND1-CE1	5.48	1.38	1.32
8	k	102	ASN	CA-CB	5.48	1.61	1.53
1	G	550	LEU	C-N	5.48	1.41	1.33
3	K	20	ASN	N-CA	5.48	1.52	1.46
3	K	333	ARG	CA-CB	5.48	1.63	1.54
6	P	96	VAL	N-CA	-5.48	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	f	244	ARG	CD-NE	5.48	1.53	1.46
8	n	8	LEU	C-N	5.48	1.41	1.33
5	L	510	LEU	CA-CB	5.48	1.62	1.53
8	a	257	ILE	N-CA	-5.48	1.39	1.46
8	f	214	ALA	CA-C	5.48	1.60	1.52
2	N	359	SER	N-CA	5.48	1.56	1.46
8	b	358	VAL	C-N	5.48	1.40	1.33
8	n	222	ASN	CA-C	5.48	1.58	1.52
2	B	579	LEU	C-N	5.48	1.41	1.33
1	G	405	GLU	C-N	5.48	1.41	1.33
8	a	398	LEU	CB-CG	5.48	1.64	1.53
8	c	36	ILE	CA-CB	-5.48	1.47	1.54
8	g	280	GLN	N-CA	-5.48	1.39	1.46
9	t	61	SER	C-N	5.48	1.41	1.33
1	E	539	LYS	CA-C	-5.48	1.45	1.52
2	F	336	ARG	NE-CZ	5.48	1.39	1.33
2	F	764	ASP	CA-CB	5.48	1.62	1.53
2	D	337	LEU	CB-CG	5.47	1.64	1.53
2	F	701	HIS	CD2-NE2	5.47	1.43	1.37
8	g	22	TRP	CA-CB	5.47	1.62	1.53
8	j	47	ARG	C-O	-5.47	1.17	1.23
2	H	830	LYS	CA-C	-5.47	1.45	1.52
2	N	638	SER	C-N	5.47	1.41	1.33
2	T	10	ASN	CA-CB	5.47	1.61	1.53
1	A	469	PRO	CA-C	5.47	1.58	1.52
2	B	574	ARG	CD-NE	5.47	1.53	1.46
8	g	161	TYR	CA-CB	5.47	1.58	1.53
2	B	415	GLN	N-CA	-5.47	1.39	1.46
2	F	389	GLY	CA-C	-5.47	1.46	1.52
4	J	282	ILE	C-N	5.47	1.40	1.33
8	e	415	LYS	N-CA	-5.47	1.39	1.46
8	g	269	LEU	CA-C	-5.47	1.46	1.52
2	H	249	LEU	CA-C	-5.47	1.45	1.52
6	P	250	ILE	C-O	-5.47	1.18	1.24
1	A	340	ILE	CA-C	5.47	1.59	1.52
1	G	507	GLU	CA-C	-5.47	1.47	1.53
8	b	160	ARG	C-N	5.47	1.37	1.33
8	c	3	ARG	CD-NE	5.47	1.53	1.46
8	j	253	LEU	C-N	5.47	1.39	1.34
2	H	465	LEU	CA-CB	5.46	1.61	1.53
1	M	653	LEU	C-N	5.46	1.41	1.33
8	b	388	PHE	CA-C	-5.46	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	296	ARG	N-CA	-5.46	1.39	1.46
4	J	238	LEU	C-N	5.46	1.41	1.33
8	b	310	ASP	N-CA	-5.46	1.38	1.46
1	A	512	LEU	CA-CB	5.46	1.62	1.53
1	C	274	ARG	N-CA	5.46	1.52	1.46
1	G	507	GLU	CA-CB	5.46	1.61	1.53
2	H	319	VAL	C-N	5.46	1.40	1.33
1	M	529	HIS	ND1-CE1	5.46	1.38	1.32
2	N	382	ALA	N-CA	-5.46	1.39	1.46
2	O	100	LEU	CA-C	-5.46	1.45	1.52
8	l	93	LEU	C-N	5.46	1.40	1.33
8	m	422	ASP	CA-CB	5.46	1.62	1.53
9	t	23	ARG	NE-CZ	5.46	1.39	1.33
2	D	293	LEU	CA-C	-5.46	1.45	1.52
1	E	647	CYS	CA-CB	5.46	1.62	1.53
2	H	851	HIS	C-N	5.46	1.41	1.33
8	l	241	THR	C-N	5.46	1.40	1.33
8	n	3	ARG	CD-NE	5.46	1.53	1.46
2	F	512	ALA	C-N	5.46	1.41	1.33
5	L	1479	SER	CA-C	-5.46	1.46	1.52
8	e	72	ARG	C-N	5.46	1.40	1.33
8	g	20	GLU	N-CA	-5.46	1.39	1.46
8	k	47	ARG	NE-CZ	5.46	1.39	1.33
2	B	312	LEU	C-N	5.46	1.41	1.33
1	C	498	LEU	CA-CB	5.46	1.62	1.53
2	H	688	LYS	C-N	5.46	1.41	1.33
2	H	712	HIS	ND1-CE1	5.46	1.38	1.32
3	I	374	ASP	CA-C	-5.46	1.45	1.52
5	L	319	ARG	NE-CZ	5.46	1.39	1.33
2	R	65	GLN	C-N	5.46	1.41	1.33
7	X	666	ARG	CA-CB	5.46	1.61	1.53
8	h	72	ARG	NE-CZ	5.46	1.39	1.33
8	n	234	THR	N-CA	-5.46	1.39	1.46
1	C	544	ASP	C-N	5.46	1.40	1.33
2	F	493	HIS	ND1-CE1	5.46	1.38	1.32
2	Q	67	ARG	NE-CZ	5.46	1.39	1.33
7	V	643	LEU	CA-CB	5.46	1.61	1.53
8	e	349	ILE	CA-C	5.46	1.58	1.52
8	k	21	PHE	CA-C	-5.46	1.46	1.52
1	E	655	CYS	CA-C	-5.45	1.45	1.52
1	M	375	CYS	C-N	5.45	1.41	1.33
1	M	694	TYR	N-CA	-5.45	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	M	713	LYS	N-CA	-5.45	1.39	1.46
6	P	27	PRO	N-CA	-5.45	1.40	1.47
6	P	354	GLN	N-CA	-5.45	1.40	1.46
8	b	314	ASN	CA-CB	5.45	1.61	1.53
8	i	220	ILE	CA-CB	-5.45	1.48	1.54
8	i	325	GLN	CA-C	-5.45	1.46	1.52
8	j	120	ASP	CA-C	-5.45	1.44	1.52
8	n	193	LYS	C-N	5.45	1.41	1.33
3	K	53	ILE	C-N	5.45	1.42	1.33
7	V	625	LEU	C-O	-5.45	1.17	1.24
8	i	204	VAL	C-N	5.45	1.40	1.33
8	k	428	VAL	CA-CB	-5.45	1.47	1.54
8	l	4	GLU	C-N	5.45	1.40	1.33
1	C	495	SER	N-CA	-5.45	1.38	1.46
2	D	753	PHE	CA-C	-5.45	1.46	1.52
1	E	662	LYS	CA-CB	5.45	1.61	1.53
2	H	471	PRO	N-CA	-5.45	1.40	1.47
1	G	409	GLU	CA-C	-5.45	1.46	1.52
7	W	667	LEU	N-CA	-5.45	1.39	1.46
8	i	33	PRO	CA-CB	5.45	1.61	1.53
8	m	99	GLY	N-CA	-5.45	1.37	1.45
3	I	11	GLY	CA-C	-5.45	1.44	1.51
7	W	646	ARG	C-O	-5.45	1.17	1.24
8	e	162	PRO	CA-C	-5.45	1.44	1.52
8	h	212	ARG	CD-NE	5.45	1.53	1.46
8	m	371	HIS	ND1-CE1	5.45	1.38	1.32
3	I	200	TYR	N-CA	-5.44	1.39	1.46
3	I	283	VAL	CA-C	-5.44	1.45	1.52
4	J	795	ILE	CA-C	-5.44	1.45	1.52
1	G	250	ASN	CA-C	-5.44	1.45	1.52
3	I	302	ASN	CA-C	-5.44	1.46	1.53
4	J	245	HIS	C-O	-5.44	1.17	1.24
4	J	937	LEU	N-CA	-5.44	1.39	1.46
6	P	369	ILE	C-N	5.44	1.40	1.34
8	d	20	GLU	CA-CB	5.44	1.63	1.53
1	A	472	LYS	CA-CB	5.44	1.62	1.53
2	B	884	HIS	C-N	5.44	1.41	1.33
3	I	388	THR	N-CA	-5.44	1.39	1.46
4	J	258	LYS	CA-C	-5.44	1.45	1.52
1	M	250	ASN	CA-C	-5.44	1.45	1.53
2	N	764	ASP	CA-CB	5.44	1.62	1.53
7	U	644	LEU	C-N	5.44	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	a	123	ASP	CA-C	5.44	1.59	1.52
8	c	360	LEU	C-N	5.44	1.40	1.33
8	k	361	SER	C-N	5.44	1.41	1.33
8	l	372	ARG	CD-NE	5.44	1.53	1.46
8	a	58	GLU	CA-C	-5.44	1.45	1.52
8	a	129	SER	N-CA	-5.44	1.39	1.46
2	D	711	VAL	CA-CB	5.44	1.61	1.54
2	H	301	ASN	CA-C	-5.44	1.45	1.52
2	H	661	ARG	C-N	5.44	1.40	1.34
4	J	466	ARG	CD-NE	5.44	1.53	1.46
2	N	701	HIS	N-CA	-5.44	1.39	1.46
8	f	28	GLU	CA-C	-5.44	1.45	1.52
8	f	124	ARG	CD-NE	5.44	1.53	1.46
8	k	233	SER	C-N	5.44	1.41	1.33
8	k	293	VAL	C-O	-5.44	1.18	1.24
2	B	411	ARG	CA-C	-5.44	1.45	1.52
3	K	260	ARG	N-CA	-5.44	1.39	1.46
2	B	800	GLN	C-N	5.43	1.41	1.34
1	C	295	MET	CA-C	-5.43	1.45	1.52
2	H	440	ASP	CA-CB	5.43	1.60	1.53
8	c	81	PRO	N-CA	-5.43	1.40	1.47
8	g	158	ASN	CA-CB	5.43	1.60	1.53
8	i	213	ILE	C-N	5.43	1.41	1.33
2	D	468	SER	CA-CB	5.43	1.62	1.53
1	E	361	ARG	N-CA	5.43	1.53	1.46
8	i	244	ARG	N-CA	-5.43	1.40	1.46
8	b	436	HIS	CE1-NE2	-5.43	1.27	1.32
8	c	272	GLY	C-N	5.43	1.40	1.33
8	i	47	ARG	CZ-NH2	5.43	1.40	1.33
4	J	876	HIS	CB-CG	5.43	1.57	1.50
2	S	21	LEU	N-CA	-5.43	1.39	1.46
8	c	51	PHE	CA-CB	5.43	1.62	1.53
8	h	411	GLU	CA-CB	5.43	1.60	1.53
5	L	164	THR	CA-CB	5.43	1.61	1.53
8	e	287	LYS	C-N	5.43	1.41	1.33
8	f	377	MET	C-N	5.43	1.40	1.33
8	m	81	PRO	N-CA	-5.43	1.39	1.48
8	n	294	MET	N-CA	-5.43	1.39	1.46
2	D	635	ASP	CA-C	-5.43	1.45	1.52
1	G	855	ILE	CA-CB	5.43	1.60	1.54
2	H	808	ARG	NE-CZ	5.43	1.39	1.33
8	a	65	VAL	N-CA	-5.43	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	c	333	VAL	CA-CB	-5.43	1.46	1.54
9	o	12	ARG	NE-CZ	5.43	1.39	1.33
1	A	497	VAL	CA-CB	-5.42	1.48	1.54
1	G	450	LEU	CA-C	-5.42	1.46	1.52
1	G	835	LEU	N-CA	-5.42	1.39	1.46
5	L	111	ALA	C-N	5.42	1.40	1.33
7	X	659	LYS	CA-C	-5.42	1.45	1.52
1	C	751	MET	CA-C	-5.42	1.45	1.52
3	I	331	ARG	NE-CZ	5.42	1.39	1.33
4	J	823	LEU	CA-CB	5.42	1.61	1.53
2	N	411	ARG	NE-CZ	5.42	1.39	1.33
6	P	32	PRO	C-O	-5.42	1.17	1.23
6	P	90	PHE	CG-CD1	5.42	1.50	1.38
6	P	345	ILE	CA-C	-5.42	1.45	1.52
1	C	509	VAL	C-O	5.42	1.30	1.24
1	G	368	ASP	CA-CB	5.42	1.59	1.52
5	L	234	MET	C-N	5.42	1.39	1.33
1	A	370	GLN	C-O	-5.42	1.17	1.24
1	E	495	SER	C-O	-5.42	1.17	1.24
2	H	509	GLY	C-O	-5.42	1.17	1.23
3	I	516	LEU	C-N	5.42	1.41	1.34
3	I	580	HIS	CB-CG	-5.42	1.42	1.50
8	b	63	ARG	N-CA	-5.42	1.37	1.46
8	g	97	GLY	C-O	-5.42	1.18	1.23
8	m	7	THR	C-N	5.42	1.39	1.33
8	n	172	PHE	C-N	5.42	1.39	1.33
8	a	371	HIS	C-N	5.42	1.40	1.33
8	c	393	ARG	CD-NE	5.42	1.53	1.46
8	g	11	GLY	CA-C	-5.42	1.45	1.52
8	n	121	ILE	CA-CB	-5.42	1.48	1.54
8	n	341	ARG	C-N	5.42	1.41	1.33
2	N	400	HIS	CB-CG	5.42	1.57	1.50
8	e	54	GLN	CA-C	-5.42	1.45	1.52
8	e	403	ALA	C-N	5.42	1.41	1.33
2	D	287	LYS	CA-CB	5.41	1.62	1.53
2	D	327	LEU	C-N	5.41	1.41	1.33
1	M	377	TYR	CA-CB	5.41	1.62	1.53
8	g	216	ASP	CA-CB	5.41	1.62	1.53
8	h	8	LEU	CA-C	-5.41	1.46	1.53
2	H	828	GLU	CA-C	-5.41	1.45	1.52
8	m	399	ARG	CD-NE	5.41	1.53	1.46
2	B	403	THR	C-N	5.41	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	517	HIS	CB-CG	-5.41	1.42	1.50
4	J	778	SER	C-N	5.41	1.40	1.33
8	c	436	HIS	CA-C	-5.41	1.46	1.52
8	h	423	ASN	C-O	-5.41	1.17	1.24
8	i	34	GLU	N-CA	-5.41	1.39	1.46
8	e	428	VAL	CA-C	5.41	1.59	1.52
8	h	195	LEU	CA-C	5.41	1.60	1.52
3	I	411	LEU	CA-C	-5.41	1.46	1.52
5	L	5	THR	CA-CB	5.41	1.61	1.53
8	f	319	ALA	CA-C	-5.41	1.46	1.52
1	A	345	ASN	C-N	5.40	1.41	1.33
2	D	359	SER	N-CA	5.40	1.56	1.46
2	D	586	ARG	CA-CB	5.40	1.62	1.52
6	P	101	HIS	CE1-NE2	-5.40	1.27	1.32
8	c	139	HIS	CD2-NE2	5.40	1.43	1.37
2	H	762	LEU	CA-CB	5.40	1.62	1.53
3	K	493	HIS	CD2-NE2	5.40	1.43	1.37
2	Q	48	GLU	C-O	-5.40	1.17	1.23
8	b	197	GLN	CA-CB	5.40	1.62	1.53
2	F	361	LEU	CA-CB	5.40	1.61	1.53
1	G	614	SER	N-CA	-5.40	1.40	1.46
1	M	723	SER	N-CA	5.40	1.53	1.46
8	m	81	PRO	CA-CB	5.40	1.60	1.53
2	B	440	ASP	CA-C	-5.40	1.45	1.52
2	O	63	VAL	C-N	5.40	1.41	1.33
8	i	31	ILE	CB-CG1	5.40	1.64	1.53
2	B	416	HIS	CB-CG	-5.40	1.42	1.50
1	G	511	HIS	CB-CG	5.40	1.57	1.50
3	I	31	ILE	N-CA	-5.40	1.41	1.46
4	J	982	PHE	CA-C	5.40	1.59	1.52
8	d	101	GLY	C-N	5.40	1.40	1.33
2	B	611	PHE	CA-C	5.40	1.59	1.52
3	I	384	PRO	N-CA	5.39	1.54	1.47
2	N	329	GLN	CA-C	5.39	1.59	1.52
8	i	300	PRO	CA-CB	5.39	1.59	1.53
8	n	84	ASN	C-N	5.39	1.41	1.33
8	n	393	ARG	CD-NE	5.39	1.53	1.46
2	B	389	GLY	CA-C	-5.39	1.47	1.52
3	I	478	PHE	N-CA	-5.39	1.39	1.46
5	L	118	GLU	CA-C	5.39	1.60	1.52
1	M	854	MET	C-N	5.39	1.40	1.33
8	f	176	ASP	C-N	5.39	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	k	380	ASN	C-O	5.39	1.29	1.23
2	T	97	LEU	CA-CB	5.39	1.61	1.53
8	d	9	GLN	CA-C	-5.39	1.45	1.52
8	n	324	ILE	CA-C	-5.39	1.46	1.52
2	F	856	ILE	CB-CG1	5.39	1.64	1.53
8	d	368	PRO	CA-CB	5.39	1.61	1.53
8	f	139	HIS	CG-CD2	5.39	1.41	1.35
8	l	205	LEU	N-CA	-5.39	1.39	1.46
8	m	54	GLN	CA-C	5.39	1.59	1.52
9	s	34	LEU	CA-CB	5.39	1.62	1.53
8	a	195	LEU	CA-C	-5.39	1.45	1.52
8	m	346	ALA	N-CA	-5.39	1.39	1.46
2	B	395	LEU	C-N	5.39	1.41	1.33
1	E	854	MET	CA-CB	5.39	1.62	1.53
1	G	491	TYR	N-CA	5.39	1.52	1.46
1	G	752	SER	CA-C	-5.39	1.45	1.52
2	H	416	HIS	ND1-CE1	5.39	1.38	1.32
2	N	788	GLN	CA-C	-5.39	1.46	1.52
1	A	689	VAL	CA-C	-5.38	1.45	1.52
1	C	753	VAL	N-CA	-5.38	1.39	1.46
1	E	272	VAL	N-CA	-5.38	1.39	1.46
1	G	282	PHE	CG-CD1	5.38	1.50	1.38
1	G	684	ARG	CZ-NH2	5.38	1.40	1.33
4	J	742	ARG	C-O	-5.38	1.17	1.24
2	N	290	THR	C-N	5.38	1.41	1.34
2	R	48	GLU	N-CA	-5.38	1.39	1.46
2	T	49	ARG	CZ-NH1	5.38	1.40	1.32
8	b	201	CYS	CA-C	-5.38	1.46	1.52
8	d	374	SER	N-CA	5.38	1.52	1.46
8	f	311	ARG	NE-CZ	5.38	1.39	1.33
8	k	47	ARG	CD-NE	5.38	1.53	1.46
8	m	13	CYS	CA-CB	5.38	1.61	1.53
8	m	184	GLN	C-O	-5.38	1.19	1.24
8	e	425	ARG	CD-NE	5.38	1.53	1.46
8	k	302	ASN	CA-CB	5.38	1.62	1.53
1	A	760	CYS	CA-CB	5.38	1.61	1.53
2	B	365	ARG	CA-CB	5.38	1.61	1.53
1	G	472	LYS	CA-CB	5.38	1.62	1.53
2	H	847	ARG	CA-C	5.38	1.59	1.52
5	L	464	PHE	N-CA	-5.38	1.39	1.46
2	N	593	GLN	N-CA	-5.38	1.39	1.46
6	P	357	ILE	C-N	5.38	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	U	629	MET	N-CA	-5.38	1.40	1.46
8	b	237	SER	N-CA	-5.38	1.39	1.46
8	c	405	LEU	CA-C	-5.38	1.46	1.53
8	a	354	ALA	C-N	5.38	1.40	1.33
8	j	420	GLU	N-CA	-5.38	1.39	1.46
2	F	377	LEU	C-N	5.38	1.41	1.33
2	F	689	LEU	C-N	5.38	1.40	1.33
4	J	367	TYR	CA-CB	5.38	1.62	1.53
2	N	717	MET	CA-CB	5.38	1.61	1.53
8	a	178	MET	N-CA	5.38	1.53	1.46
8	b	126	ALA	C-O	-5.38	1.19	1.24
8	b	347	ASN	N-CA	-5.38	1.38	1.46
1	A	527	PHE	CA-C	-5.38	1.45	1.52
2	D	497	HIS	ND1-CE1	5.38	1.38	1.32
1	E	437	GLN	CA-C	-5.38	1.46	1.52
1	E	553	LEU	CA-CB	5.38	1.61	1.53
2	F	294	SER	CA-C	-5.38	1.45	1.52
2	N	514	SER	CA-CB	5.38	1.60	1.53
2	N	653	ARG	CD-NE	5.38	1.53	1.46
8	a	432	ILE	CA-C	-5.38	1.46	1.52
8	f	385	SER	C-O	-5.38	1.17	1.24
8	n	72	ARG	CD-NE	5.38	1.53	1.46
9	s	27	THR	N-CA	-5.38	1.39	1.46
2	B	755	ASP	C-N	5.38	1.41	1.33
1	C	690	GLN	C-N	5.38	1.40	1.33
3	K	457	LYS	N-CA	5.38	1.52	1.45
4	J	962	ARG	NE-CZ	5.37	1.39	1.33
2	N	676	LEU	CA-C	-5.37	1.45	1.52
8	a	145	THR	C-N	5.37	1.41	1.34
8	h	102	ASN	CA-CB	5.37	1.62	1.53
8	n	263	THR	C-N	-5.37	1.26	1.33
2	D	382	ALA	C-N	5.37	1.41	1.33
2	F	249	LEU	C-N	5.37	1.40	1.33
5	L	1657	ASN	C-N	5.37	1.41	1.34
1	M	514	SER	CA-CB	5.37	1.62	1.53
8	l	159	ASP	CA-C	-5.37	1.46	1.52
2	B	501	PRO	C-N	5.37	1.41	1.33
2	F	388	GLN	CD-NE2	5.37	1.44	1.33
1	M	724	HIS	ND1-CE1	5.37	1.38	1.32
8	e	395	TYR	N-CA	-5.37	1.39	1.46
8	g	186	TYR	C-N	5.37	1.41	1.33
1	E	725	HIS	CB-CG	5.37	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	F	412	SER	N-CA	-5.37	1.39	1.46
2	F	614	PRO	CA-CB	-5.37	1.46	1.53
5	L	171	LEU	CA-CB	5.37	1.61	1.53
1	M	228	ASP	CA-CB	5.37	1.60	1.53
8	h	190	LEU	CA-C	-5.37	1.45	1.52
1	C	480	GLU	CA-C	-5.37	1.46	1.52
1	M	230	ARG	C-N	5.37	1.41	1.33
8	e	304	MET	C-O	-5.37	1.16	1.24
8	j	47	ARG	CZ-NH2	5.37	1.40	1.33
2	H	683	HIS	ND1-CE1	5.37	1.38	1.32
6	P	206	ARG	NE-CZ	5.37	1.39	1.33
8	d	46	ASP	CA-CB	5.37	1.62	1.53
8	m	92	TYR	N-CA	-5.37	1.39	1.46
2	B	294	SER	C-N	5.36	1.41	1.33
3	I	349	ASP	CA-C	5.36	1.59	1.52
3	K	57	GLU	C-N	5.36	1.41	1.33
5	L	1574	GLU	CA-C	-5.36	1.45	1.52
8	a	237	SER	C-N	5.36	1.41	1.34
8	h	2	PRO	N-CA	5.36	1.55	1.47
2	B	833	GLN	CA-CB	5.36	1.62	1.53
8	i	412	ASP	CA-CB	5.36	1.62	1.53
2	B	781	ILE	C-N	5.36	1.40	1.33
2	F	509	GLY	C-N	5.36	1.41	1.33
4	J	465	VAL	N-CA	-5.36	1.39	1.46
1	M	707	ILE	CA-CB	-5.36	1.48	1.54
2	N	360	SER	N-CA	-5.36	1.40	1.46
8	e	260	LEU	C-O	-5.36	1.16	1.24
8	j	283	ALA	CA-C	-5.36	1.46	1.52
8	n	360	LEU	CA-C	-5.36	1.46	1.52
9	r	10	ALA	C-N	5.36	1.40	1.33
1	A	430	ARG	C-O	5.36	1.30	1.23
3	I	28	SER	CA-CB	5.36	1.61	1.53
4	J	892	LEU	CA-CB	5.36	1.62	1.53
8	d	268	PHE	CA-CB	5.36	1.59	1.53
8	d	425	ARG	CD-NE	5.36	1.53	1.46
8	f	343	ARG	CZ-NH1	5.36	1.40	1.32
1	E	314	ARG	NE-CZ	5.36	1.39	1.33
2	F	303	ILE	CA-CB	-5.36	1.47	1.54
2	F	769	ALA	C-N	5.36	1.40	1.33
3	K	472	GLU	CA-CB	5.36	1.62	1.53
8	d	6	ILE	CA-C	-5.36	1.45	1.52
8	h	17	ILE	CA-C	-5.36	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	i	141	ILE	CA-CB	5.36	1.60	1.54
1	E	555	GLU	CA-CB	5.36	1.62	1.53
4	J	904	THR	C-N	5.36	1.40	1.33
3	K	620	CYS	CA-C	-5.36	1.45	1.52
2	Q	78	HIS	CA-CB	5.36	1.61	1.53
8	b	399	ARG	CA-CB	5.36	1.62	1.53
8	c	388	PHE	C-N	5.36	1.41	1.34
8	i	384	ILE	CA-CB	-5.36	1.48	1.54
1	A	407	MET	C-N	5.35	1.40	1.33
1	E	641	PHE	CA-CB	5.35	1.62	1.53
8	j	34	GLU	CA-C	-5.35	1.45	1.52
1	C	335	GLU	C-N	5.35	1.40	1.33
2	D	443	HIS	CG-ND1	5.35	1.44	1.38
4	J	964	HIS	N-CA	-5.35	1.39	1.46
3	K	515	ARG	NE-CZ	5.35	1.39	1.33
2	O	69	ALA	C-N	5.35	1.41	1.34
8	e	156	ARG	CZ-NH1	5.35	1.40	1.32
8	k	411	GLU	CA-C	-5.35	1.46	1.52
3	K	333	ARG	NE-CZ	5.35	1.39	1.33
5	L	1552	MET	C-N	5.35	1.41	1.33
1	A	432	THR	N-CA	-5.35	1.39	1.46
2	B	636	VAL	C-N	5.35	1.41	1.33
1	M	753	VAL	N-CA	-5.35	1.39	1.46
1	M	858	ILE	C-N	5.35	1.41	1.33
8	b	91	ILE	N-CA	-5.35	1.40	1.46
8	c	343	ARG	CD-NE	5.35	1.53	1.46
8	d	409	ARG	CD-NE	5.35	1.53	1.46
8	e	408	PHE	C-N	5.35	1.41	1.33
8	j	196	THR	C-N	5.35	1.41	1.33
2	H	342	HIS	CG-ND1	-5.35	1.32	1.38
2	N	625	LEU	C-N	5.35	1.40	1.33
8	a	423	ASN	CA-CB	5.35	1.61	1.53
8	l	114	ILE	C-N	5.35	1.41	1.33
8	n	362	ARG	C-N	5.35	1.41	1.33
9	p	23	ARG	CD-NE	5.35	1.53	1.46
1	A	680	THR	C-N	5.35	1.41	1.34
8	n	30	GLY	C-N	5.35	1.41	1.33
2	B	396	ALA	CA-CB	5.34	1.62	1.53
1	C	828	ASP	CA-C	-5.34	1.45	1.52
2	D	465	LEU	CA-CB	5.34	1.61	1.53
1	E	643	HIS	ND1-CE1	5.34	1.37	1.32
2	F	413	LEU	N-CA	-5.34	1.40	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	645	PHE	CA-CB	5.34	1.62	1.53
3	I	380	LEU	CA-CB	5.34	1.60	1.53
2	N	608	ASN	CG-ND2	5.34	1.44	1.33
8	a	118	ILE	C-N	5.34	1.40	1.33
8	a	137	LEU	C-N	5.34	1.40	1.33
8	d	25	LEU	CA-C	-5.34	1.45	1.52
8	l	90	ASN	CA-C	-5.34	1.45	1.52
8	m	293	VAL	CA-C	-5.34	1.46	1.53
6	P	219	VAL	CA-CB	5.34	1.60	1.54
1	A	382	ALA	N-CA	-5.34	1.39	1.46
1	E	396	ARG	CZ-NH2	5.34	1.40	1.33
2	F	315	ALA	C-N	5.34	1.41	1.33
2	F	469	MET	CA-C	5.34	1.58	1.52
2	F	808	ARG	C-N	5.34	1.41	1.33
2	N	343	SER	C-N	5.34	1.41	1.34
8	e	393	ARG	CD-NE	5.34	1.53	1.46
8	f	70	GLU	C-O	-5.34	1.18	1.24
8	f	164	LYS	CA-CB	5.34	1.61	1.53
8	f	249	MET	C-N	5.34	1.41	1.33
8	i	354	ALA	C-N	5.34	1.40	1.33
8	j	343	ARG	CZ-NH2	5.34	1.40	1.33
8	m	101	GLY	C-N	5.34	1.41	1.33
6	P	330	ILE	CA-C	5.34	1.59	1.52
8	k	91	ILE	N-CA	-5.34	1.39	1.46
2	D	663	PHE	C-O	-5.34	1.17	1.24
1	M	536	GLU	N-CA	-5.34	1.39	1.46
8	f	344	LYS	N-CA	-5.34	1.38	1.46
9	s	39	ARG	CA-CB	5.34	1.61	1.53
9	t	26	ASN	CA-C	-5.34	1.46	1.53
2	N	744	ASP	CA-CB	5.33	1.62	1.53
7	U	613	ASP	CA-C	-5.33	1.45	1.52
8	g	212	ARG	NE-CZ	5.33	1.39	1.33
8	i	129	SER	CA-C	-5.33	1.46	1.52
8	i	435	TYR	CA-C	-5.33	1.46	1.52
8	l	323	ILE	N-CA	-5.33	1.39	1.46
3	I	502	LYS	CA-C	-5.33	1.45	1.52
8	a	322	ASN	C-N	5.33	1.40	1.33
8	i	390	ARG	NE-CZ	5.33	1.39	1.33
8	l	71	PRO	CA-C	5.33	1.59	1.52
8	l	182	VAL	C-N	5.33	1.40	1.33
1	C	509	VAL	C-N	5.33	1.41	1.34
5	L	165	THR	N-CA	-5.33	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
6	P	62	ARG	NE-CZ	5.33	1.39	1.33
8	f	232	VAL	CA-C	5.33	1.59	1.52
8	f	334	HIS	CG-CD2	5.33	1.41	1.35
9	p	54	ILE	C-N	5.33	1.41	1.33
8	b	49	ASP	CA-C	-5.33	1.46	1.52
2	N	437	GLU	C-N	5.33	1.40	1.33
9	t	59	ARG	NE-CZ	5.33	1.39	1.33
3	K	60	GLU	CA-C	-5.33	1.45	1.52
8	d	435	TYR	CA-C	-5.33	1.45	1.52
5	L	1614	ASN	CA-C	-5.33	1.45	1.52
1	M	567	PRO	N-CA	5.33	1.54	1.47
6	P	75	ILE	CA-C	-5.33	1.46	1.52
2	R	57	LYS	C-O	-5.33	1.17	1.24
2	T	67	ARG	CD-NE	5.33	1.53	1.46
8	h	268	PHE	C-N	5.33	1.40	1.33
8	i	337	LEU	CA-CB	5.33	1.62	1.53
8	n	3	ARG	CZ-NH1	5.33	1.40	1.32
2	D	321	GLN	CA-C	-5.32	1.45	1.52
3	I	15	SER	N-CA	-5.32	1.38	1.45
4	J	466	ARG	NE-CZ	5.32	1.39	1.33
3	K	295	ARG	CD-NE	5.32	1.53	1.46
5	L	408	TYR	C-N	5.32	1.41	1.33
5	L	594	GLU	CA-C	-5.32	1.45	1.52
2	N	388	GLN	N-CA	-5.32	1.39	1.46
8	j	137	LEU	C-N	5.32	1.40	1.33
3	I	192	LEU	N-CA	-5.32	1.39	1.46
4	J	449	ALA	N-CA	-5.32	1.39	1.46
6	P	14	SER	CA-C	-5.32	1.44	1.52
8	a	338	GLN	CA-C	-5.32	1.46	1.52
8	f	414	PHE	CA-C	-5.32	1.46	1.53
8	h	56	ASP	CA-C	-5.32	1.45	1.52
8	k	8	LEU	N-CA	-5.32	1.38	1.46
2	B	760	ARG	NE-CZ	5.32	1.39	1.33
1	G	243	ARG	CZ-NH1	5.32	1.40	1.32
5	L	90	ARG	CA-CB	5.32	1.61	1.53
2	N	806	GLU	CA-CB	5.32	1.62	1.53
2	H	552	TYR	C-N	5.32	1.40	1.33
3	I	552	ASP	CA-C	-5.32	1.45	1.52
3	I	568	LEU	CA-CB	5.32	1.62	1.53
5	L	405	GLY	N-CA	-5.32	1.37	1.45
2	N	339	SER	CA-CB	5.32	1.62	1.53
8	d	122	ILE	CA-CB	-5.32	1.48	1.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	f	237	SER	CA-CB	5.32	1.62	1.53
8	j	257	ILE	CA-CB	-5.32	1.47	1.54
8	k	241	THR	CA-C	5.32	1.59	1.52
8	n	55	ALA	N-CA	-5.32	1.39	1.46
2	B	530	GLN	CA-C	5.32	1.59	1.52
2	B	619	ARG	CA-C	-5.32	1.44	1.52
2	B	649	THR	CA-CB	-5.32	1.45	1.53
8	a	204	VAL	CA-C	-5.32	1.45	1.52
8	c	356	ILE	CA-C	-5.32	1.47	1.52
8	f	253	LEU	C-N	5.32	1.39	1.34
4	J	429	ALA	N-CA	-5.31	1.39	1.46
2	N	591	LEU	CA-C	-5.31	1.46	1.53
8	l	383	ASN	N-CA	-5.31	1.39	1.46
1	C	502	LEU	C-O	-5.31	1.17	1.24
2	O	33	GLN	CA-C	5.31	1.59	1.52
8	n	28	GLU	C-N	5.31	1.41	1.33
9	o	58	ARG	CD-NE	5.31	1.53	1.46
1	E	495	SER	N-CA	-5.31	1.39	1.46
3	I	30	ASP	CA-CB	5.31	1.57	1.53
3	K	634	ASN	CA-C	5.31	1.59	1.53
5	L	1555	PHE	CA-CB	5.31	1.61	1.53
2	S	94	LEU	N-CA	-5.31	1.39	1.46
8	b	246	PRO	N-CA	-5.31	1.41	1.47
8	g	300	PRO	C-O	5.31	1.28	1.24
2	D	393	GLY	C-N	5.31	1.41	1.33
1	G	244	SER	CA-CB	5.31	1.59	1.52
3	K	116	HIS	ND1-CE1	5.31	1.37	1.32
3	K	362	LEU	C-N	5.31	1.40	1.33
1	M	234	VAL	C-N	5.31	1.42	1.33
2	N	304	LYS	C-N	5.31	1.41	1.33
2	O	58	ILE	C-N	5.31	1.40	1.33
7	W	647	TYR	CA-C	-5.31	1.45	1.52
8	i	172	PHE	C-N	5.31	1.40	1.33
8	j	318	ILE	C-N	5.31	1.40	1.33
8	m	3	ARG	CD-NE	5.31	1.53	1.46
2	B	496	CYS	C-N	5.31	1.40	1.33
2	F	531	THR	CA-C	-5.31	1.45	1.52
2	N	794	ALA	C-N	5.31	1.41	1.33
8	b	246	PRO	C-O	-5.31	1.16	1.23
8	e	130	ASP	N-CA	5.31	1.53	1.46
8	e	305	VAL	CA-C	-5.31	1.46	1.52
8	m	243	LEU	CB-CG	5.31	1.64	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	334	TYR	CA-CB	5.31	1.62	1.53
8	a	307	THR	C-N	5.31	1.42	1.33
8	c	29	HIS	CA-C	-5.31	1.45	1.52
8	d	91	ILE	C-N	5.31	1.40	1.33
1	G	675	PHE	C-N	5.30	1.41	1.34
1	M	573	LYS	C-N	5.30	1.40	1.33
2	N	572	PHE	CA-C	-5.30	1.45	1.52
8	c	224	SER	CA-C	-5.30	1.46	1.52
8	d	295	ARG	CZ-NH1	5.30	1.40	1.32
8	k	316	CYS	CA-C	-5.30	1.46	1.52
3	I	501	ARG	C-N	5.30	1.41	1.33
1	M	694	TYR	C-O	-5.30	1.18	1.24
8	a	406	GLU	CA-C	-5.30	1.45	1.52
8	n	401	ARG	NE-CZ	5.30	1.38	1.33
4	J	767	ASP	CA-C	-5.30	1.45	1.52
3	K	523	LEU	C-N	5.30	1.40	1.33
7	U	604	LYS	N-CA	-5.30	1.40	1.46
3	K	172	LEU	C-N	5.30	1.41	1.33
2	O	79	ARG	CD-NE	5.30	1.53	1.46
8	k	205	LEU	N-CA	-5.30	1.39	1.46
8	l	233	SER	N-CA	5.30	1.53	1.46
1	E	689	VAL	CA-CB	5.30	1.61	1.54
2	F	284	LYS	N-CA	-5.30	1.39	1.46
4	J	705	LEU	N-CA	-5.30	1.39	1.46
8	g	173	PRO	N-CA	-5.30	1.40	1.47
8	g	330	PRO	CA-C	-5.30	1.47	1.53
8	l	129	SER	CA-CB	5.30	1.62	1.53
1	C	692	ILE	C-N	5.30	1.42	1.33
1	G	261	ARG	CA-CB	5.30	1.62	1.53
4	J	681	THR	N-CA	-5.30	1.39	1.46
5	L	1414	LEU	N-CA	-5.30	1.39	1.46
6	P	195	GLU	CA-C	5.30	1.59	1.52
8	k	268	PHE	N-CA	-5.30	1.39	1.46
2	B	515	PRO	CA-CB	5.29	1.61	1.53
8	f	29	HIS	CG-ND1	5.29	1.44	1.38
1	A	677	GLY	CA-C	-5.29	1.46	1.52
2	B	616	ILE	CA-C	-5.29	1.46	1.52
2	D	849	LEU	CA-CB	5.29	1.62	1.53
2	F	783	GLU	N-CA	5.29	1.53	1.46
3	I	548	ASN	N-CA	-5.29	1.39	1.46
1	M	562	THR	CA-C	-5.29	1.46	1.52
7	U	646	ARG	NE-CZ	5.29	1.38	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	a	311	ARG	CZ-NH1	5.29	1.40	1.32
8	e	267	HIS	CA-C	-5.29	1.45	1.52
8	i	178	MET	N-CA	-5.29	1.39	1.46
8	n	68	ASP	N-CA	-5.29	1.39	1.46
2	B	668	ARG	CZ-NH1	5.29	1.40	1.32
1	C	211	SER	CA-CB	5.29	1.61	1.53
8	a	184	GLN	CA-C	-5.29	1.46	1.52
8	b	304	MET	N-CA	-5.29	1.39	1.46
8	c	295	ARG	CZ-NH1	5.29	1.40	1.32
8	m	290	VAL	CA-CB	-5.29	1.48	1.54
8	n	125	GLU	CA-C	-5.29	1.45	1.52
5	L	1513	LEU	CA-CB	5.29	1.62	1.53
6	P	104	LEU	CA-CB	5.29	1.60	1.53
8	d	270	MET	CA-C	5.29	1.59	1.52
9	r	56	GLU	N-CA	-5.29	1.40	1.46
9	s	60	ALA	C-N	5.29	1.40	1.33
1	E	564	ASN	C-N	5.29	1.43	1.34
3	I	124	TYR	CA-CB	5.29	1.61	1.53
5	L	1457	SER	CA-C	-5.29	1.45	1.52
2	Q	40	GLY	C-N	5.29	1.40	1.33
2	Q	95	TYR	CZ-OH	5.29	1.49	1.38
8	a	47	ARG	CD-NE	5.29	1.53	1.46
8	c	72	ARG	CZ-NH2	5.29	1.40	1.33
8	i	271	THR	C-N	5.29	1.39	1.33
8	k	54	GLN	CA-CB	5.29	1.60	1.53
8	n	138	CYS	C-O	-5.29	1.18	1.23
1	G	858	ILE	N-CA	-5.29	1.39	1.46
8	c	347	ASN	CA-C	-5.29	1.46	1.52
8	f	436	HIS	CD2-NE2	-5.29	1.32	1.37
1	C	839	LEU	CA-CB	5.29	1.61	1.53
1	E	571	ASP	CA-CB	5.29	1.62	1.53
2	F	372	ASP	C-O	5.29	1.30	1.24
1	G	298	LEU	CA-C	5.29	1.59	1.52
2	Q	65	GLN	CA-CB	5.29	1.62	1.53
7	W	622	ILE	N-CA	-5.29	1.40	1.46
8	i	266	LEU	CA-C	-5.29	1.45	1.52
1	A	682	ARG	CA-C	-5.28	1.46	1.52
1	C	332	ARG	CD-NE	5.28	1.53	1.46
2	D	764	ASP	N-CA	-5.28	1.39	1.46
2	H	328	HIS	CG-CD2	5.28	1.41	1.35
8	c	75	HIS	ND1-CE1	5.28	1.37	1.32
8	g	265	ARG	CZ-NH1	5.28	1.40	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	l	169	TYR	CA-C	-5.28	1.46	1.53
8	m	133	GLU	N-CA	-5.28	1.40	1.46
1	A	725	HIS	ND1-CE1	5.28	1.37	1.32
1	A	272	VAL	CA-C	-5.28	1.44	1.52
2	H	568	GLY	C-N	5.28	1.41	1.33
3	I	561	ASP	CA-C	-5.28	1.45	1.52
8	k	178	MET	CA-C	5.28	1.57	1.52
2	B	695	GLU	C-N	5.28	1.42	1.33
4	J	817	ASN	CA-CB	5.28	1.61	1.53
8	a	381	HIS	CB-CG	5.28	1.57	1.50
8	n	51	PHE	C-N	5.28	1.41	1.33
2	B	611	PHE	CA-CB	5.28	1.60	1.53
2	N	826	ASP	CA-CB	5.28	1.61	1.53
6	P	208	ILE	CA-CB	5.28	1.60	1.54
8	f	425	ARG	CZ-NH1	5.28	1.40	1.32
8	n	356	ILE	CA-C	5.28	1.58	1.52
1	C	649	HIS	CA-C	-5.28	1.45	1.52
2	D	701	HIS	CD2-NE2	-5.28	1.32	1.37
2	T	99	SER	CA-CB	5.28	1.62	1.53
8	b	62	PRO	N-CA	-5.28	1.40	1.47
8	i	72	ARG	CZ-NH2	5.28	1.40	1.33
8	j	350	PRO	CA-CB	5.28	1.56	1.53
8	m	214	ALA	C-N	5.28	1.41	1.33
1	A	370	GLN	CA-C	-5.27	1.45	1.52
2	B	333	GLU	CA-C	-5.27	1.45	1.52
1	E	265	VAL	CA-C	-5.27	1.45	1.52
2	F	300	HIS	CG-ND1	-5.27	1.32	1.38
8	m	5	ILE	C-N	5.27	1.40	1.33
8	m	212	ARG	CA-C	-5.27	1.45	1.52
8	m	409	ARG	N-CA	-5.27	1.39	1.46
3	I	486	ARG	C-N	5.27	1.39	1.34
5	L	451	THR	N-CA	-5.27	1.40	1.46
1	M	495	SER	CA-C	-5.27	1.46	1.52
2	N	837	GLU	C-N	5.27	1.41	1.33
8	f	200	ASP	CA-C	-5.27	1.45	1.52
8	j	381	HIS	CE1-NE2	5.27	1.37	1.32
2	F	309	GLN	N-CA	-5.27	1.39	1.46
1	M	374	LEU	N-CA	5.27	1.52	1.46
8	n	251	ASN	CA-CB	5.27	1.62	1.53
1	E	293	ALA	CA-C	-5.27	1.45	1.52
4	J	769	SER	C-N	5.27	1.41	1.33
1	M	493	TYR	CA-C	-5.27	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
7	W	602	PHE	N-CA	-5.27	1.40	1.46
8	l	272	GLY	N-CA	-5.27	1.40	1.45
8	l	337	LEU	C-N	5.27	1.41	1.33
9	s	66	ALA	CA-C	5.27	1.64	1.52
2	D	470	ILE	CA-C	-5.27	1.48	1.53
2	F	699	VAL	C-N	5.27	1.41	1.33
1	G	216	LEU	N-CA	5.27	1.53	1.46
1	G	366	THR	CA-CB	-5.27	1.45	1.53
2	H	642	HIS	C-O	-5.27	1.17	1.24
3	K	53	ILE	CA-CB	-5.27	1.48	1.54
3	K	503	HIS	ND1-CE1	5.27	1.37	1.32
2	N	868	THR	CA-CB	-5.27	1.45	1.53
8	b	123	ASP	N-CA	5.27	1.52	1.46
8	j	194	ARG	CZ-NH1	5.27	1.40	1.32
8	n	75	HIS	CD2-NE2	5.27	1.43	1.37
5	L	1621	SER	N-CA	-5.27	1.39	1.46
6	P	226	GLU	CA-CB	5.26	1.62	1.53
8	a	301	LYS	CA-CB	5.26	1.62	1.53
8	d	77	ILE	CA-CB	5.26	1.62	1.55
8	k	246	PRO	N-CD	-5.26	1.40	1.47
8	m	152	TYR	CA-C	-5.26	1.45	1.52
1	C	512	LEU	CA-C	-5.26	1.45	1.52
3	I	557	ARG	NE-CZ	5.26	1.38	1.33
8	c	253	LEU	C-O	-5.26	1.17	1.24
8	j	413	ILE	CA-C	-5.26	1.45	1.52
8	k	381	HIS	CG-CD2	5.26	1.41	1.35
8	l	243	LEU	C-N	5.26	1.41	1.33
9	t	28	GLY	N-CA	-5.26	1.37	1.45
8	k	429	GLN	CA-CB	5.26	1.62	1.53
8	m	5	ILE	CA-C	5.26	1.58	1.52
2	B	584	LEU	CA-CB	-5.26	1.44	1.53
2	B	635	ASP	CA-CB	5.26	1.61	1.53
3	I	480	TYR	CA-CB	5.26	1.61	1.53
5	L	1430	GLU	C-N	5.26	1.41	1.33
8	d	176	ASP	C-N	5.26	1.41	1.33
8	m	165	LEU	CA-C	-5.26	1.45	1.52
8	m	429	GLN	CA-CB	5.26	1.62	1.53
3	I	41	VAL	N-CA	-5.26	1.39	1.46
1	M	515	ILE	CA-C	-5.26	1.46	1.52
2	T	74	PHE	CB-CG	5.26	1.62	1.50
8	i	230	GLN	CA-CB	5.26	1.61	1.53
8	n	51	PHE	CA-CB	5.26	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	297	THR	N-CA	-5.25	1.39	1.46
3	I	516	LEU	CA-CB	5.25	1.61	1.53
3	K	191	MET	CA-CB	5.25	1.60	1.53
1	M	479	LYS	CA-C	-5.25	1.46	1.52
7	X	652	SER	C-N	5.25	1.40	1.33
1	A	398	ILE	CA-C	-5.25	1.47	1.52
2	D	596	LEU	N-CA	5.25	1.53	1.46
3	I	46	CYS	CA-C	-5.25	1.45	1.52
3	K	551	ARG	CZ-NH2	5.25	1.40	1.33
2	N	372	ASP	CA-C	5.25	1.59	1.52
2	Q	46	THR	C-N	5.25	1.40	1.33
8	c	98	GLY	N-CA	5.25	1.49	1.44
8	h	125	GLU	C-N	5.25	1.40	1.33
8	c	309	ARG	CD-NE	5.25	1.53	1.46
8	e	359	ALA	CA-C	-5.25	1.46	1.52
1	G	284	TYR	N-CA	-5.25	1.39	1.45
4	J	999	ARG	CZ-NH1	5.25	1.40	1.32
1	A	236	PRO	CA-C	-5.25	1.46	1.52
2	D	275	LYS	CA-CB	5.25	1.62	1.53
3	K	31	ILE	CA-C	5.25	1.58	1.52
2	N	383	LEU	CA-CB	5.25	1.61	1.53
8	a	245	TYR	C-O	5.25	1.29	1.24
8	d	254	ILE	CA-C	5.25	1.58	1.52
8	e	83	ALA	C-N	5.25	1.41	1.33
8	k	18	GLY	N-CA	-5.25	1.37	1.45
8	m	146	GLY	C-O	-5.25	1.17	1.23
8	m	236	MET	CA-C	-5.25	1.46	1.52
8	n	9	GLN	C-N	5.25	1.40	1.33
1	A	300	LYS	C-O	-5.25	1.17	1.24
1	A	363	PHE	C-O	-5.25	1.20	1.23
1	C	736	CYS	CA-CB	5.25	1.62	1.54
2	F	326	ALA	N-CA	-5.25	1.40	1.46
3	I	206	ARG	CA-C	-5.25	1.46	1.52
3	I	402	LYS	C-N	5.25	1.40	1.33
3	K	10	SER	CA-CB	5.25	1.62	1.53
1	M	493	TYR	C-N	5.25	1.41	1.34
8	m	423	ASN	CA-C	-5.25	1.46	1.52
8	n	274	THR	CA-C	5.25	1.59	1.52
8	n	419	ASP	C-N	5.25	1.41	1.34
2	D	766	GLU	CA-CB	5.25	1.61	1.53
8	k	117	ASP	N-CA	-5.25	1.39	1.46
2	H	550	LYS	CA-C	-5.24	1.45	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
5	L	1500	MET	SD-CE	5.24	1.92	1.79
8	d	91	ILE	CA-C	-5.24	1.45	1.52
9	r	58	ARG	N-CA	-5.24	1.40	1.46
1	A	440	SER	CA-CB	5.24	1.61	1.53
2	F	707	ALA	C-N	5.24	1.41	1.34
8	g	389	GLU	CA-C	5.24	1.59	1.52
1	A	331	LEU	N-CA	-5.24	1.39	1.46
3	K	201	GLU	CA-CB	5.24	1.62	1.53
3	K	619	SER	C-N	5.24	1.41	1.33
2	S	19	ARG	NE-CZ	5.24	1.38	1.33
8	a	29	HIS	CE1-NE2	-5.24	1.27	1.32
8	c	265	ARG	C-N	5.24	1.41	1.33
8	c	280	GLN	CA-CB	5.24	1.62	1.53
8	g	164	LYS	CA-C	-5.24	1.46	1.52
8	k	409	ARG	CZ-NH2	5.24	1.40	1.33
1	E	745	LYS	CA-C	-5.24	1.46	1.52
2	F	712	HIS	C-N	5.24	1.41	1.33
4	J	730	MET	CA-C	-5.24	1.45	1.52
4	J	765	TYR	CA-C	5.24	1.57	1.53
3	K	505	GLU	CA-C	-5.24	1.46	1.52
8	i	165	LEU	CA-CB	5.24	1.61	1.53
8	j	217	ARG	NE-CZ	5.24	1.38	1.33
8	k	96	HIS	N-CA	5.24	1.52	1.45
9	r	30	ASP	CA-CB	5.24	1.61	1.53
8	b	409	ARG	NE-CZ	5.24	1.38	1.33
8	c	182	VAL	C-N	5.24	1.39	1.33
8	c	339	ARG	CD-NE	5.24	1.53	1.46
2	D	848	ILE	C-N	5.24	1.41	1.33
8	h	38	GLU	C-N	5.24	1.40	1.33
8	i	76	SER	CA-CB	5.24	1.60	1.53
1	E	274	ARG	NE-CZ	5.23	1.38	1.33
1	G	391	GLU	C-N	5.23	1.41	1.33
3	I	88	ALA	C-N	5.23	1.41	1.33
5	L	1392	MET	CA-C	-5.23	1.45	1.52
2	N	756	THR	N-CA	-5.23	1.39	1.46
8	a	265	ARG	N-CA	5.23	1.52	1.46
8	n	410	LYS	CA-CB	5.23	1.63	1.53
2	D	362	THR	CA-C	-5.23	1.46	1.52
4	J	328	ASP	CA-C	-5.23	1.46	1.52
8	f	267	HIS	CB-CG	5.23	1.57	1.50
1	E	849	ASP	CA-CB	5.23	1.60	1.53
2	F	846	LEU	C-N	5.23	1.41	1.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	533	VAL	N-CA	-5.23	1.40	1.46
5	L	119	LEU	N-CA	-5.23	1.39	1.46
5	L	505	LEU	CA-C	-5.23	1.45	1.52
5	L	524	LEU	N-CA	-5.23	1.39	1.46
6	P	164	PRO	CA-C	-5.23	1.47	1.52
6	P	293	LEU	CA-C	5.23	1.59	1.52
8	b	230	GLN	CA-C	-5.23	1.45	1.52
1	C	748	SER	C-N	5.23	1.41	1.33
3	I	82	HIS	CA-CB	-5.23	1.46	1.53
1	M	462	CYS	CA-CB	5.23	1.61	1.53
2	H	792	TYR	N-CA	-5.23	1.40	1.46
5	L	1376	TYR	N-CA	-5.23	1.39	1.46
5	L	1509	PHE	CA-CB	5.23	1.61	1.53
8	h	366	TYR	CG-CD1	5.23	1.50	1.39
8	l	156	ARG	CD-NE	5.23	1.53	1.46
8	m	174	ASN	CA-CB	5.23	1.61	1.53
1	A	549	ARG	NE-CZ	5.23	1.38	1.33
5	L	1562	TYR	N-CA	-5.23	1.39	1.46
8	e	195	LEU	C-O	-5.23	1.17	1.24
8	h	193	LYS	CA-CB	5.23	1.61	1.53
8	l	142	ALA	N-CA	-5.23	1.39	1.46
1	C	843	SER	CA-C	-5.22	1.45	1.52
3	I	636	GLN	C-N	5.22	1.40	1.34
3	K	616	LYS	CA-C	-5.22	1.46	1.52
6	P	87	HIS	CA-CB	5.22	1.61	1.53
2	R	21	LEU	CA-C	-5.22	1.45	1.52
8	b	362	ARG	CA-C	-5.22	1.46	1.52
8	j	180	HIS	ND1-CE1	5.22	1.37	1.32
1	E	706	HIS	C-N	5.22	1.40	1.33
2	F	861	LEU	C-N	5.22	1.40	1.33
5	L	1596	LEU	N-CA	-5.22	1.40	1.46
2	N	300	HIS	CG-CD2	5.22	1.41	1.35
8	d	203	VAL	C-N	5.22	1.40	1.33
8	d	295	ARG	NE-CZ	5.22	1.38	1.33
8	n	351	TRP	NE1-CE2	5.22	1.43	1.37
1	A	706	HIS	CB-CG	5.22	1.57	1.50
1	M	523	GLN	CA-CB	5.22	1.61	1.53
8	e	160	ARG	C-N	5.22	1.38	1.33
8	f	95	GLU	C-O	-5.22	1.17	1.24
8	i	196	THR	C-N	5.22	1.41	1.33
8	n	48	LYS	CA-CB	5.22	1.62	1.53
2	B	535	ALA	C-N	5.22	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	e	417	ASN	C-O	-5.22	1.19	1.24
7	U	639	GLU	CA-C	5.22	1.59	1.52
8	k	292	ASP	CA-CB	5.22	1.62	1.53
8	l	124	ARG	NE-CZ	5.22	1.38	1.33
8	m	368	PRO	CA-C	5.22	1.59	1.52
8	n	60	TYR	CA-C	-5.22	1.46	1.52
2	D	299	LEU	CA-CB	5.22	1.62	1.53
2	S	44	ALA	CA-C	5.22	1.58	1.52
8	i	170	SER	CA-CB	5.22	1.60	1.53
1	C	537	GLU	CA-C	-5.21	1.45	1.52
3	K	87	ARG	CA-CB	5.21	1.62	1.53
1	M	631	ARG	CZ-NH1	5.21	1.40	1.32
2	N	346	GLN	N-CA	-5.21	1.39	1.46
8	f	244	ARG	N-CA	5.21	1.52	1.46
7	W	640	ILE	CA-CB	-5.21	1.48	1.54
1	E	366	THR	CA-C	-5.21	1.46	1.52
5	L	167	ALA	C-N	5.21	1.41	1.33
5	L	346	VAL	C-N	5.21	1.41	1.33
2	N	402	TYR	CA-C	-5.21	1.45	1.52
6	P	185	LEU	CA-CB	5.21	1.61	1.53
2	S	18	CYS	CA-CB	5.21	1.61	1.53
8	d	418	PHE	CA-C	-5.21	1.46	1.52
8	e	180	HIS	C-N	5.21	1.39	1.33
8	h	138	CYS	C-N	5.21	1.40	1.33
8	j	323	ILE	CA-C	-5.21	1.46	1.52
2	H	467	LYS	C-N	5.21	1.41	1.33
3	I	381	LYS	CA-C	5.21	1.59	1.52
8	c	85	LEU	CA-C	-5.21	1.46	1.52
1	C	249	GLN	CA-CB	5.21	1.59	1.53
3	I	52	TYR	CA-CB	5.21	1.61	1.53
6	P	370	VAL	C-N	5.21	1.41	1.33
8	j	371	HIS	CB-CG	5.21	1.57	1.50
1	E	308	GLN	N-CA	5.21	1.52	1.46
2	F	527	ASN	C-N	5.21	1.41	1.33
7	U	627	VAL	CA-C	-5.21	1.46	1.52
8	j	62	PRO	CA-CB	5.21	1.60	1.53
2	F	662	VAL	CA-CB	5.21	1.60	1.54
1	G	673	LYS	CA-C	-5.21	1.45	1.52
4	J	438	LYS	N-CA	-5.21	1.39	1.46
5	L	1396	PHE	CA-CB	5.21	1.61	1.53
1	M	712	LEU	CA-CB	5.21	1.61	1.53
6	P	259	GLU	C-N	5.21	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	c	169	TYR	CA-C	-5.21	1.47	1.53
1	E	553	LEU	CA-C	-5.20	1.45	1.52
1	G	246	SER	CA-C	5.20	1.58	1.52
4	J	765	TYR	N-CA	5.20	1.50	1.46
9	t	37	CYS	N-CA	-5.20	1.40	1.46
2	D	588	ALA	C-N	5.20	1.40	1.33
8	e	223	PRO	N-CA	5.20	1.53	1.47
1	G	540	LYS	CA-C	5.20	1.58	1.52
4	J	381	CYS	CA-CB	5.20	1.61	1.53
4	J	672	SER	N-CA	-5.20	1.39	1.46
6	P	48	GLY	C-N	5.20	1.40	1.33
8	f	411	GLU	CA-C	5.20	1.58	1.53
8	m	167	GLN	CA-CB	5.20	1.62	1.53
8	n	306	SER	CA-C	-5.20	1.46	1.52
2	B	254	LEU	CA-CB	5.20	1.61	1.53
1	C	244	SER	CA-C	-5.20	1.46	1.52
2	H	414	VAL	CA-C	-5.20	1.45	1.52
5	L	211	GLU	CA-CB	5.20	1.61	1.53
1	M	388	ASP	CA-CB	5.20	1.61	1.53
7	U	668	ARG	CZ-NH1	5.20	1.40	1.32
8	c	307	THR	C-N	5.20	1.39	1.33
8	m	228	ILE	N-CA	-5.20	1.39	1.46
6	P	72	GLU	C-O	-5.20	1.17	1.24
1	E	227	VAL	C-N	5.20	1.40	1.33
2	H	467	LYS	CA-CB	5.20	1.59	1.53
2	S	15	ASN	CA-CB	5.20	1.61	1.53
8	f	4	GLU	CA-CB	5.20	1.61	1.53
8	j	120	ASP	C-N	5.20	1.40	1.33
8	l	219	HIS	CA-C	-5.20	1.46	1.53
8	m	23	LYS	N-CA	-5.20	1.39	1.46
2	F	671	ARG	NE-CZ	5.19	1.38	1.33
1	G	509	VAL	N-CA	-5.19	1.39	1.46
1	G	571	ASP	CA-C	-5.19	1.45	1.52
3	K	564	LEU	CA-C	-5.19	1.46	1.52
2	N	737	VAL	C-O	-5.19	1.17	1.24
2	S	39	ILE	CA-CB	5.19	1.61	1.54
1	C	661	ASN	N-CA	-5.19	1.39	1.46
3	I	160	HIS	CB-CG	5.19	1.57	1.50
4	J	400	PRO	C-O	-5.19	1.18	1.24
1	M	244	SER	CA-CB	5.19	1.59	1.53
8	b	405	LEU	CA-C	-5.19	1.46	1.52
8	g	315	HIS	C-N	5.19	1.41	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	h	46	ASP	N-CA	-5.19	1.40	1.46
8	j	33	PRO	N-CD	-5.19	1.40	1.47
8	m	246	PRO	CA-CB	5.19	1.60	1.53
8	n	375	GLY	C-N	5.19	1.40	1.33
2	F	493	HIS	CG-ND1	-5.19	1.32	1.38
2	H	400	HIS	ND1-CE1	5.19	1.37	1.32
5	L	1460	THR	CA-C	-5.19	1.46	1.52
2	N	726	LEU	CA-C	-5.19	1.45	1.52
8	c	229	ASN	CG-ND2	5.19	1.44	1.33
2	H	480	ARG	CA-C	-5.19	1.45	1.52
3	K	162	CYS	C-N	5.19	1.41	1.33
5	L	424	HIS	N-CA	-5.19	1.42	1.47
8	b	425	ARG	CD-NE	5.19	1.53	1.46
1	A	296	ARG	N-CA	-5.19	1.39	1.46
1	C	497	VAL	CA-C	5.19	1.60	1.52
1	C	464	HIS	CA-C	5.19	1.59	1.52
5	L	1388	VAL	CA-C	-5.19	1.45	1.52
7	W	669	ALA	C-N	5.19	1.40	1.33
8	b	339	ARG	CZ-NH1	5.19	1.40	1.32
8	d	212	ARG	CZ-NH2	5.19	1.40	1.33
2	H	628	SER	CA-CB	5.18	1.60	1.53
5	L	93	GLU	CA-C	5.18	1.59	1.52
8	f	401	ARG	CD-NE	5.18	1.53	1.46
8	l	360	LEU	N-CA	5.18	1.52	1.45
2	H	867	SER	C-N	5.18	1.40	1.33
5	L	324	LYS	CA-CB	5.18	1.61	1.53
8	c	135	PHE	CA-CB	5.18	1.63	1.53
8	c	184	GLN	C-O	-5.18	1.19	1.24
8	c	351	TRP	NE1-CE2	-5.18	1.31	1.37
8	g	248	TYR	N-CA	-5.18	1.39	1.46
8	j	192	LEU	CA-C	-5.18	1.45	1.52
8	m	40	PHE	N-CA	-5.18	1.39	1.46
8	h	337	LEU	N-CA	5.18	1.53	1.46
8	j	334	HIS	ND1-CE1	5.18	1.37	1.32
9	t	12	ARG	CA-CB	5.18	1.61	1.53
1	A	254	SER	C-N	5.18	1.39	1.33
1	E	753	VAL	CA-C	-5.18	1.45	1.52
4	J	818	GLN	C-N	5.18	1.40	1.33
8	e	30	GLY	CA-C	-5.18	1.44	1.51
8	h	41	ALA	C-N	5.18	1.40	1.33
1	G	295	MET	CA-C	-5.18	1.45	1.52
2	H	531	THR	N-CA	-5.18	1.39	1.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	e	239	SER	CA-CB	5.18	1.62	1.53
8	h	232	VAL	N-CA	-5.18	1.39	1.46
8	h	249	MET	N-CA	-5.18	1.39	1.46
9	o	46	ASN	CA-CB	5.18	1.61	1.53
3	K	84	ILE	C-N	5.18	1.41	1.33
3	K	606	ARG	CA-C	-5.18	1.45	1.52
5	L	553	MET	C-N	5.18	1.40	1.33
2	N	382	ALA	C-O	-5.18	1.17	1.24
8	f	377	MET	CA-C	-5.18	1.46	1.52
2	B	340	VAL	C-N	5.17	1.41	1.33
2	B	809	LYS	N-CA	-5.17	1.39	1.46
1	C	381	ALA	N-CA	-5.17	1.39	1.46
1	C	854	MET	CA-CB	5.17	1.61	1.53
1	E	660	SER	C-N	5.17	1.40	1.33
2	F	314	ARG	CZ-NH2	5.17	1.40	1.33
2	F	400	HIS	CA-C	5.17	1.59	1.52
3	I	260	ARG	CZ-NH2	5.17	1.40	1.33
4	J	253	TYR	CA-CB	5.17	1.61	1.53
2	N	443	HIS	N-CA	5.17	1.52	1.46
8	b	23	LYS	C-N	5.17	1.41	1.34
8	g	196	THR	CA-C	-5.17	1.46	1.53
8	h	27	ALA	C-N	5.17	1.41	1.33
8	j	372	ARG	CZ-NH1	5.17	1.40	1.32
8	l	156	ARG	CZ-NH2	5.17	1.40	1.33
2	F	478	GLN	C-O	5.17	1.30	1.24
2	N	482	VAL	CA-C	5.17	1.60	1.52
8	d	397	LYS	CA-CB	5.17	1.61	1.53
8	n	231	LEU	N-CA	-5.17	1.39	1.46
8	n	302	ASN	C-N	5.17	1.40	1.33
1	A	492	ASN	CB-CG	5.17	1.65	1.52
2	B	749	ALA	C-N	5.17	1.41	1.33
1	C	720	ASP	CA-CB	5.17	1.61	1.53
2	D	267	MET	N-CA	5.17	1.52	1.46
3	I	83	GLY	CA-C	-5.17	1.44	1.51
3	K	314	LEU	N-CA	-5.17	1.40	1.46
5	L	351	THR	CA-C	-5.17	1.45	1.52
1	M	300	LYS	N-CA	-5.17	1.40	1.46
2	N	708	SER	N-CA	5.17	1.53	1.46
2	R	66	ARG	CZ-NH2	5.17	1.40	1.33
8	a	423	ASN	N-CA	-5.17	1.40	1.46
8	d	279	ASP	C-N	5.17	1.41	1.33
8	g	398	LEU	CA-CB	5.17	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	h	369	SER	CA-C	-5.17	1.47	1.53
8	k	182	VAL	C-N	5.17	1.39	1.33
8	n	372	ARG	NE-CZ	5.17	1.38	1.33
1	A	640	LEU	C-N	5.17	1.41	1.33
5	L	226	ASN	CA-C	-5.17	1.47	1.53
1	M	401	ASP	CA-CB	5.17	1.61	1.53
1	C	374	LEU	CA-C	-5.17	1.46	1.52
1	G	346	LYS	C-N	5.17	1.40	1.33
1	G	839	LEU	N-CA	-5.17	1.40	1.46
3	I	364	GLY	CA-C	-5.17	1.44	1.51
1	M	403	TYR	CZ-OH	5.17	1.49	1.38
7	V	605	ASN	CA-C	-5.17	1.46	1.52
8	a	91	ILE	C-N	5.17	1.40	1.33
2	D	513	GLU	CA-CB	5.17	1.61	1.53
2	D	597	THR	CA-C	-5.17	1.45	1.52
2	F	477	ASP	CA-CB	5.17	1.62	1.53
2	H	310	ARG	CZ-NH1	5.17	1.40	1.32
1	M	434	VAL	N-CA	-5.17	1.39	1.46
8	d	335	LYS	CA-CB	5.17	1.61	1.53
8	e	213	ILE	CA-C	-5.17	1.46	1.52
8	n	215	THR	CB-OG1	-5.17	1.35	1.43
2	B	867	SER	CA-C	5.17	1.59	1.52
1	C	540	LYS	CA-CB	-5.17	1.45	1.53
2	D	829	ASN	CA-C	5.17	1.59	1.52
2	H	365	ARG	CD-NE	5.17	1.53	1.46
3	K	526	ASN	CA-C	-5.17	1.47	1.52
1	M	225	ILE	C-N	5.17	1.40	1.33
8	n	329	ASP	CA-CB	5.17	1.61	1.53
1	C	657	VAL	CA-C	-5.16	1.46	1.52
2	S	14	GLN	CA-C	-5.16	1.46	1.52
7	V	652	SER	N-CA	5.16	1.52	1.46
8	k	435	TYR	CA-C	-5.16	1.47	1.53
8	l	414	PHE	CA-CB	5.16	1.62	1.53
1	C	681	LEU	CA-CB	5.16	1.62	1.53
1	M	442	LEU	C-N	5.16	1.41	1.33
6	P	38	PRO	C-N	5.16	1.40	1.33
8	a	27	ALA	CA-C	5.16	1.59	1.52
8	i	3	ARG	CZ-NH1	5.16	1.40	1.32
3	I	540	PHE	CA-CB	5.16	1.62	1.53
4	J	590	LEU	N-CA	-5.16	1.40	1.46
1	C	443	GLN	C-N	5.16	1.41	1.33
4	J	800	VAL	CA-C	5.16	1.58	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	1	MET	C-N	5.16	1.40	1.33
3	K	286	PHE	CA-CB	5.16	1.62	1.53
1	M	443	GLN	N-CA	-5.16	1.39	1.46
1	M	689	VAL	CA-CB	-5.16	1.47	1.54
8	g	244	ARG	CA-C	-5.16	1.47	1.52
8	j	281	SER	C-N	5.16	1.40	1.33
9	q	49	ALA	CA-C	-5.16	1.46	1.52
1	C	282	PHE	CA-CB	5.16	1.62	1.53
2	H	558	MET	CA-CB	5.16	1.61	1.53
2	H	683	HIS	N-CA	-5.16	1.40	1.46
6	P	196	ARG	CA-CB	5.16	1.62	1.53
2	B	871	SER	CA-CB	-5.16	1.46	1.52
1	G	427	TRP	CA-CB	5.16	1.63	1.53
8	c	193	LYS	CA-CB	5.16	1.61	1.53
8	d	367	LEU	CA-CB	5.16	1.60	1.53
8	e	389	GLU	CA-C	-5.16	1.45	1.52
8	k	363	LYS	CA-C	-5.16	1.46	1.52
8	n	29	HIS	N-CA	-5.16	1.39	1.46
1	C	220	LEU	N-CA	5.15	1.52	1.46
2	D	293	LEU	CA-CB	5.15	1.62	1.53
5	L	1625	LYS	C-N	5.15	1.41	1.33
8	a	269	LEU	N-CA	-5.15	1.39	1.46
8	h	357	GLN	CA-C	-5.15	1.46	1.52
8	m	119	PHE	CA-C	-5.15	1.46	1.52
8	n	245	TYR	C-N	5.15	1.39	1.33
2	B	545	LEU	CA-C	-5.15	1.45	1.52
2	D	500	THR	C-N	-5.15	1.29	1.33
2	D	851	HIS	ND1-CE1	5.15	1.37	1.32
1	G	234	VAL	N-CA	-5.15	1.40	1.46
2	H	328	HIS	CE1-NE2	5.15	1.37	1.32
2	N	281	ALA	CA-C	-5.15	1.46	1.52
2	T	64	ARG	CD-NE	5.15	1.53	1.46
8	g	335	LYS	CA-CB	5.15	1.61	1.53
8	n	106	SER	C-N	5.15	1.40	1.33
9	r	11	VAL	CA-C	-5.15	1.46	1.52
2	F	801	GLN	CA-C	-5.15	1.45	1.52
1	G	347	GLY	CA-C	-5.15	1.44	1.51
3	K	471	LEU	CA-CB	5.15	1.62	1.53
5	L	593	ASN	C-N	5.15	1.41	1.33
5	L	1662	TYR	C-N	5.15	1.41	1.33
6	P	154	ASP	C-N	5.15	1.40	1.33
8	k	148	GLY	CA-C	-5.15	1.44	1.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	n	409	ARG	CA-CB	5.15	1.59	1.52
2	B	712	HIS	ND1-CE1	5.15	1.37	1.32
2	B	780	GLN	C-N	5.15	1.39	1.33
5	L	1684	ASP	C-N	5.15	1.41	1.33
8	n	286	ARG	CA-C	5.15	1.59	1.52
2	B	586	ARG	CZ-NH2	5.15	1.40	1.33
2	D	249	LEU	C-N	5.15	1.40	1.33
1	M	404	SER	C-N	5.15	1.41	1.33
1	M	632	LYS	CA-CB	5.15	1.61	1.53
2	R	36	VAL	CA-C	-5.15	1.46	1.52
2	T	67	ARG	CA-CB	5.15	1.60	1.53
7	V	617	ALA	C-N	5.15	1.40	1.33
8	j	193	LYS	N-CA	-5.15	1.40	1.46
8	l	63	ARG	CA-CB	-5.15	1.45	1.53
2	B	661	ARG	N-CA	-5.14	1.40	1.46
2	D	802	ARG	NE-CZ	5.14	1.38	1.33
1	G	365	TYR	CA-C	-5.14	1.43	1.52
1	M	331	LEU	CA-C	-5.14	1.46	1.52
7	W	650	ASN	CA-C	-5.14	1.46	1.53
8	c	207	ASN	C-N	5.14	1.41	1.33
8	d	415	LYS	CA-C	-5.14	1.46	1.52
8	g	176	ASP	CA-CB	5.14	1.61	1.53
3	I	168	VAL	N-CA	-5.14	1.39	1.46
3	I	193	HIS	CG-CD2	-5.14	1.30	1.35
5	L	1489	TRP	C-N	5.14	1.40	1.34
1	M	701	MET	CA-C	-5.14	1.45	1.52
8	a	348	PHE	CA-C	-5.14	1.46	1.52
8	c	61	ILE	CA-CB	5.14	1.60	1.54
8	c	194	ARG	CZ-NH1	5.14	1.40	1.32
8	e	14	GLY	N-CA	5.14	1.52	1.45
8	g	327	GLU	CA-C	-5.14	1.46	1.52
2	D	681	LYS	CA-C	-5.14	1.45	1.52
2	D	844	SER	CA-C	-5.14	1.46	1.52
2	F	742	ASP	CA-C	-5.14	1.46	1.53
2	N	770	LEU	C-N	5.14	1.41	1.33
8	h	34	GLU	CA-CB	5.14	1.62	1.53
8	n	152	TYR	CA-CB	5.14	1.61	1.53
1	G	242	SER	CA-C	-5.14	1.47	1.53
2	H	539	ASP	N-CA	5.14	1.52	1.46
2	H	596	LEU	CA-CB	5.14	1.62	1.53
3	I	44	ARG	CD-NE	5.14	1.53	1.46
4	J	902	HIS	CB-CG	5.14	1.57	1.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	K	519	HIS	CG-CD2	5.14	1.41	1.35
6	P	229	THR	CA-C	5.14	1.59	1.52
8	c	161	TYR	CA-C	5.14	1.58	1.52
8	c	213	ILE	CA-CB	5.14	1.61	1.54
8	c	407	GLN	CA-C	-5.14	1.46	1.53
8	g	158	ASN	CA-C	-5.14	1.46	1.53
4	J	789	HIS	CG-ND1	-5.13	1.32	1.38
3	K	442	ARG	CA-CB	5.13	1.63	1.53
5	L	111	ALA	CA-CB	5.13	1.61	1.53
8	j	339	ARG	CZ-NH1	5.13	1.40	1.32
9	t	17	VAL	C-N	5.13	1.40	1.34
2	R	60	LYS	N-CA	5.13	1.52	1.46
8	b	176	ASP	CA-CB	5.13	1.62	1.53
8	d	331	THR	C-N	5.13	1.41	1.33
8	g	195	LEU	CA-C	-5.13	1.45	1.52
8	l	221	GLN	N-CA	-5.13	1.39	1.46
1	C	225	ILE	CA-CB	-5.13	1.47	1.54
1	C	833	ALA	CA-C	-5.13	1.46	1.52
2	F	630	GLY	C-N	5.13	1.39	1.33
3	I	206	ARG	NE-CZ	5.13	1.38	1.33
3	I	495	TRP	N-CA	-5.13	1.40	1.46
1	M	256	LYS	CA-CB	5.13	1.61	1.53
2	O	67	ARG	CZ-NH1	5.13	1.40	1.32
8	b	183	VAL	N-CA	5.13	1.52	1.46
1	A	536	GLU	CA-CB	5.13	1.61	1.53
1	C	671	SER	CA-CB	5.13	1.63	1.53
1	E	226	GLY	CA-C	-5.13	1.44	1.51
2	T	10	ASN	N-CA	-5.13	1.40	1.46
1	C	390	LEU	CA-C	-5.13	1.45	1.52
4	J	401	ARG	NE-CZ	5.13	1.38	1.33
4	J	549	LYS	C-O	-5.13	1.17	1.24
3	K	114	ASP	CA-CB	5.13	1.61	1.53
5	L	33	ASN	N-CA	-5.13	1.40	1.46
1	A	488	GLU	CA-C	5.13	1.59	1.52
1	E	274	ARG	CA-CB	5.13	1.61	1.53
2	H	489	ILE	C-N	5.13	1.41	1.33
2	H	546	ASP	C-N	5.13	1.40	1.33
4	J	764	ARG	CD-NE	5.13	1.53	1.46
3	K	28	SER	CA-C	-5.13	1.46	1.52
2	N	745	HIS	CE1-NE2	-5.13	1.27	1.32
8	c	289	THR	CA-CB	5.13	1.62	1.53
8	c	335	LYS	CA-CB	5.13	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	d	59	HIS	CA-C	-5.13	1.45	1.52
8	k	15	ASN	CA-C	-5.13	1.45	1.52
1	M	746	ILE	C-N	5.12	1.41	1.33
2	N	847	ARG	NE-CZ	5.12	1.38	1.33
8	i	226	SER	C-O	5.12	1.30	1.24
8	l	173	PRO	N-CA	5.12	1.52	1.46
8	m	176	ASP	C-N	5.12	1.40	1.33
1	E	687	ASN	N-CA	5.12	1.53	1.46
2	F	882	ASN	N-CA	5.12	1.52	1.46
1	G	361	ARG	CD-NE	5.12	1.53	1.46
3	K	258	SER	CA-C	-5.12	1.46	1.52
1	M	505	GLU	CA-C	-5.12	1.47	1.53
8	d	286	ARG	C-N	5.12	1.40	1.33
8	e	371	HIS	ND1-CE1	5.12	1.37	1.32
8	j	393	ARG	CD-NE	5.12	1.53	1.46
8	m	13	CYS	CA-C	-5.12	1.45	1.52
8	m	61	ILE	CA-C	5.12	1.58	1.52
2	F	797	GLU	CA-CB	5.12	1.61	1.53
1	G	323	LEU	C-N	5.12	1.40	1.33
1	G	431	TYR	CA-C	-5.12	1.46	1.52
4	J	466	ARG	CZ-NH2	5.12	1.40	1.33
2	N	289	ILE	C-N	5.12	1.41	1.33
2	N	468	SER	CA-CB	5.12	1.62	1.53
7	X	615	ARG	CA-CB	5.12	1.61	1.53
8	e	350	PRO	CA-C	5.12	1.59	1.52
9	q	64	LEU	N-CA	-5.12	1.40	1.46
6	P	31	PHE	N-CA	-5.12	1.40	1.46
2	S	115	ALA	C-N	5.12	1.41	1.34
8	c	389	GLU	CA-CB	5.12	1.61	1.53
1	E	224	LEU	CA-CB	5.12	1.61	1.53
2	H	635	ASP	N-CA	-5.12	1.40	1.46
8	d	372	ARG	NE-CZ	5.12	1.38	1.33
8	j	399	ARG	NE-CZ	5.12	1.38	1.33
8	l	268	PHE	CA-CB	5.12	1.59	1.53
8	l	271	THR	CB-OG1	-5.12	1.35	1.43
8	l	358	VAL	N-CA	-5.12	1.40	1.46
9	q	43	GLN	CA-C	-5.12	1.45	1.52
2	N	707	ALA	N-CA	-5.12	1.39	1.46
8	d	374	SER	CA-C	-5.12	1.46	1.52
8	n	175	GLN	C-N	5.12	1.41	1.33
1	E	705	TRP	NE1-CE2	-5.12	1.31	1.37
2	F	410	MET	CA-CB	5.12	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	G	563	ALA	CA-C	-5.12	1.46	1.52
3	I	191	MET	CA-CB	5.12	1.60	1.53
4	J	291	ASN	CA-CB	5.12	1.62	1.53
5	L	1420	GLU	N-CA	-5.12	1.39	1.46
2	B	343	SER	N-CA	-5.11	1.39	1.46
1	G	344	LEU	N-CA	5.11	1.52	1.46
1	M	331	LEU	N-CA	5.11	1.52	1.46
2	N	536	ALA	C-N	5.11	1.40	1.33
8	e	188	SER	N-CA	-5.11	1.39	1.46
8	i	138	CYS	CA-CB	5.11	1.58	1.52
1	A	693	GLN	C-N	5.11	1.40	1.33
2	B	683	HIS	CG-ND1	5.11	1.43	1.38
2	D	654	GLU	C-O	-5.11	1.17	1.24
8	d	19	PHE	N-CA	-5.11	1.40	1.46
8	l	167	GLN	N-CA	-5.11	1.40	1.46
8	m	124	ARG	CD-NE	5.11	1.53	1.46
1	C	346	LYS	N-CA	-5.11	1.39	1.46
4	J	281	LEU	CA-CB	5.11	1.62	1.53
1	M	539	LYS	C-N	5.11	1.38	1.33
1	A	724	HIS	CB-CG	5.11	1.57	1.50
1	E	494	ALA	N-CA	5.11	1.52	1.46
2	F	509	GLY	N-CA	-5.11	1.39	1.45
2	H	495	VAL	CA-CB	5.11	1.59	1.54
3	I	341	TRP	N-CA	-5.11	1.40	1.46
8	g	268	PHE	CA-CB	5.11	1.59	1.53
8	h	59	HIS	C-N	5.11	1.40	1.33
8	j	365	PRO	CA-CB	-5.11	1.46	1.53
1	E	476	TYR	N-CA	-5.11	1.39	1.46
1	E	574	ILE	CA-CB	5.11	1.60	1.54
2	F	336	ARG	CZ-NH1	5.11	1.39	1.32
1	G	642	ARG	CD-NE	5.11	1.53	1.46
3	K	584	GLU	CA-CB	5.11	1.61	1.53
8	k	120	ASP	CA-C	5.11	1.60	1.53
8	m	184	GLN	N-CA	-5.11	1.41	1.46
8	n	422	ASP	CA-C	-5.11	1.46	1.52
2	D	720	TYR	CA-C	-5.10	1.45	1.52
3	I	474	TYR	CA-CB	5.10	1.61	1.53
8	d	13	CYS	CA-C	-5.10	1.45	1.52
8	e	380	ASN	N-CA	-5.10	1.40	1.47
1	A	357	LEU	CB-CG	5.10	1.63	1.53
1	A	835	LEU	CB-CG	5.10	1.63	1.53
2	B	859	GLN	CA-CB	5.10	1.62	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	376	ARG	CZ-NH2	5.10	1.40	1.33
1	M	222	TYR	C-N	5.10	1.39	1.34
2	N	728	CYS	C-N	5.10	1.40	1.33
8	c	124	ARG	C-O	-5.10	1.17	1.24
8	g	15	ASN	CA-CB	5.10	1.61	1.53
8	m	142	ALA	N-CA	5.10	1.52	1.45
3	I	24	GLY	CA-C	5.10	1.56	1.51
5	L	107	SER	CA-CB	5.10	1.61	1.54
6	P	280	ASN	CA-C	-5.10	1.45	1.52
8	i	334	HIS	CE1-NE2	-5.10	1.27	1.32
8	k	47	ARG	CZ-NH1	5.10	1.39	1.32
1	M	545	ILE	C-N	5.10	1.39	1.33
2	N	763	LEU	CA-C	-5.10	1.46	1.52
7	W	657	ILE	CA-C	-5.10	1.46	1.52
7	X	634	HIS	ND1-CE1	5.10	1.37	1.32
8	e	434	GLU	C-N	5.10	1.41	1.33
8	f	155	GLU	CA-CB	5.10	1.61	1.53
5	L	1525	PHE	C-O	5.10	1.30	1.24
8	m	77	ILE	C-N	5.10	1.40	1.33
2	D	759	SER	CA-C	-5.10	1.45	1.52
3	K	130	HIS	CD2-NE2	5.10	1.43	1.37
2	R	94	LEU	N-CA	-5.10	1.40	1.46
2	S	52	PHE	N-CA	-5.10	1.40	1.46
8	h	268	PHE	N-CA	-5.10	1.40	1.46
8	i	349	ILE	CA-C	-5.10	1.47	1.52
1	M	410	GLU	CA-CB	5.09	1.61	1.53
1	M	568	PHE	CA-CB	5.09	1.62	1.53
6	P	161	HIS	ND1-CE1	5.09	1.37	1.32
8	e	379	ALA	N-CA	-5.09	1.39	1.45
8	e	410	LYS	N-CA	5.09	1.52	1.46
8	h	225	PHE	C-N	5.09	1.40	1.33
1	G	844	MET	CA-CB	5.09	1.61	1.53
1	M	229	GLY	C-N	5.09	1.40	1.33
2	N	251	ARG	CZ-NH2	5.09	1.40	1.33
6	P	5	ILE	CA-C	-5.09	1.47	1.52
2	T	16	LEU	N-CA	5.09	1.52	1.46
8	e	281	SER	CA-CB	5.09	1.62	1.53
8	j	49	ASP	CA-CB	5.09	1.62	1.53
2	B	395	LEU	N-CA	-5.09	1.39	1.46
3	I	444	ALA	CA-CB	5.09	1.61	1.53
3	I	542	GLN	C-N	5.09	1.40	1.33
6	P	198	TYR	C-N	5.09	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	b	216	ASP	C-N	5.09	1.40	1.33
8	e	310	ASP	N-CA	-5.09	1.40	1.46
8	f	199	ALA	CA-C	-5.09	1.46	1.52
8	h	413	ILE	N-CA	-5.09	1.40	1.46
1	C	453	GLY	C-N	5.09	1.40	1.33
1	C	846	SER	C-N	5.09	1.40	1.33
2	F	569	GLN	CA-C	5.09	1.58	1.52
4	J	694	TYR	C-N	5.09	1.41	1.34
3	K	648	LEU	CA-CB	5.09	1.62	1.53
8	i	138	CYS	N-CA	-5.09	1.40	1.46
8	l	219	HIS	ND1-CE1	5.09	1.37	1.32
8	l	311	ARG	CD-NE	5.09	1.53	1.46
2	F	799	LEU	CA-CB	5.09	1.62	1.53
2	N	640	ASP	CA-C	-5.09	1.46	1.52
8	c	238	ALA	CA-C	5.09	1.59	1.52
8	j	62	PRO	CA-C	-5.09	1.46	1.52
8	k	420	GLU	CA-CB	5.09	1.61	1.53
8	n	164	LYS	N-CA	-5.09	1.39	1.46
1	A	263	LEU	CA-C	5.09	1.59	1.52
1	A	351	GLY	C-N	5.09	1.40	1.33
1	A	763	ARG	CZ-NH2	5.09	1.40	1.33
3	I	176	LEU	CA-CB	5.09	1.61	1.53
5	L	227	ASP	CA-C	-5.09	1.46	1.52
2	Q	74	PHE	C-O	-5.09	1.18	1.24
7	W	618	CYS	C-N	5.09	1.40	1.33
8	l	436	HIS	CG-CD2	5.09	1.41	1.35
1	C	626	SER	N-CA	-5.08	1.39	1.46
2	D	246	GLU	C-N	5.08	1.41	1.34
2	D	444	GLU	CA-CB	5.08	1.62	1.53
2	D	847	ARG	NE-CZ	5.08	1.38	1.33
1	E	240	ARG	CZ-NH1	5.08	1.39	1.32
3	I	205	VAL	CA-C	5.08	1.58	1.52
8	i	224	SER	CA-C	-5.08	1.46	1.52
9	q	53	VAL	N-CA	-5.08	1.40	1.46
2	D	479	SER	C-N	5.08	1.41	1.33
1	E	411	HIS	CE1-NE2	-5.08	1.27	1.32
2	H	679	ILE	C-O	-5.08	1.17	1.24
3	I	376	ALA	N-CA	-5.08	1.39	1.46
4	J	394	VAL	CA-CB	5.08	1.61	1.54
6	P	82	MET	N-CA	-5.08	1.39	1.46
2	S	33	GLN	CA-CB	5.08	1.61	1.53
8	g	144	GLY	C-N	5.08	1.40	1.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	j	412	ASP	CA-C	5.08	1.60	1.52
9	t	38	VAL	C-O	-5.08	1.18	1.24
1	C	642	ARG	CD-NE	5.08	1.53	1.46
1	G	222	TYR	N-CA	-5.08	1.39	1.46
1	G	407	MET	C-N	5.08	1.39	1.33
1	M	551	GLU	CA-C	-5.08	1.45	1.52
8	n	79	ASN	C-N	5.08	1.40	1.33
8	n	321	LEU	N-CA	-5.08	1.40	1.46
1	C	250	ASN	CA-CB	5.08	1.61	1.53
8	l	311	ARG	CZ-NH2	5.08	1.40	1.33
1	E	349	CYS	C-N	5.08	1.39	1.33
8	g	258	ALA	CA-C	5.08	1.59	1.52
8	n	325	GLN	N-CA	-5.08	1.39	1.45
1	C	238	VAL	CA-C	-5.08	1.48	1.52
2	D	466	ARG	C-N	5.08	1.40	1.33
5	L	5	THR	C-O	-5.08	1.18	1.24
8	e	56	ASP	CA-CB	5.08	1.62	1.53
8	e	418	PHE	CA-CB	5.08	1.61	1.53
8	h	63	ARG	NE-CZ	5.08	1.38	1.33
8	i	91	ILE	CA-CB	5.08	1.60	1.54
2	D	367	LEU	CA-C	-5.08	1.46	1.52
3	K	339	HIS	C-N	5.08	1.41	1.33
2	O	17	CYS	N-CA	5.08	1.52	1.46
2	R	51	GLU	CA-C	5.08	1.59	1.52
8	b	410	LYS	CA-C	-5.08	1.45	1.52
8	c	377	MET	CG-SD	5.08	1.93	1.80
8	f	390	ARG	NE-CZ	5.08	1.38	1.33
8	g	345	LEU	C-N	5.08	1.40	1.33
8	j	103	ASN	CA-CB	5.08	1.61	1.53
2	B	539	ASP	CA-CB	5.07	1.61	1.53
2	D	361	LEU	CA-CB	5.07	1.62	1.53
3	I	14	GLY	CA-C	5.07	1.57	1.51
3	K	16	ILE	CA-CB	5.07	1.60	1.54
5	L	115	LEU	CA-CB	5.07	1.61	1.53
8	a	403	ALA	CA-C	-5.07	1.46	1.52
8	b	296	ARG	CZ-NH1	5.07	1.39	1.32
8	i	222	ASN	CA-CB	5.07	1.61	1.53
8	j	292	ASP	CA-C	-5.07	1.46	1.52
9	q	26	ASN	C-N	5.07	1.40	1.33
8	b	90	ASN	CA-C	-5.07	1.45	1.52
1	C	659	ILE	CB-CG1	5.07	1.63	1.53
1	C	706	HIS	ND1-CE1	5.07	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
2	D	566	LEU	CA-C	-5.07	1.46	1.52
2	F	637	PHE	C-O	5.07	1.30	1.23
4	J	804	VAL	C-O	-5.07	1.17	1.24
5	L	1407	ASP	CA-C	-5.07	1.47	1.53
2	N	295	GLU	C-O	-5.07	1.18	1.24
8	a	220	ILE	C-N	5.07	1.40	1.33
8	c	370	ALA	N-CA	-5.07	1.39	1.46
8	g	364	SER	CA-CB	5.07	1.63	1.53
8	h	49	ASP	CA-CB	5.07	1.60	1.53
8	i	233	SER	N-CA	5.07	1.52	1.46
8	m	296	ARG	CA-C	-5.07	1.45	1.52
2	F	334	TYR	N-CA	-5.07	1.39	1.46
3	I	369	PHE	CA-CB	5.07	1.61	1.54
4	J	270	THR	N-CA	-5.07	1.39	1.46
5	L	8	PHE	C-N	5.07	1.40	1.33
8	a	86	TYR	N-CA	-5.07	1.39	1.45
8	g	12	GLN	C-N	5.07	1.41	1.33
8	g	399	ARG	CD-NE	5.07	1.53	1.46
8	l	53	TYR	C-N	5.07	1.40	1.33
8	m	305	VAL	N-CA	-5.07	1.40	1.46
8	n	394	GLN	C-N	5.07	1.40	1.33
1	A	273	THR	N-CA	5.07	1.52	1.46
2	F	776	ALA	CA-C	-5.07	1.45	1.52
1	G	265	VAL	N-CA	5.07	1.52	1.46
5	L	1629	GLN	C-N	5.07	1.41	1.33
2	N	569	GLN	N-CA	-5.07	1.40	1.46
1	A	636	ARG	CZ-NH2	5.07	1.40	1.33
3	I	255	LYS	CA-CB	5.07	1.62	1.53
1	M	672	ALA	N-CA	5.07	1.52	1.45
1	C	243	ARG	CD-NE	5.06	1.53	1.46
4	J	597	SER	C-N	5.06	1.40	1.33
7	X	667	LEU	C-O	-5.06	1.18	1.24
8	a	315	HIS	CB-CG	5.06	1.57	1.50
8	k	221	GLN	CA-CB	5.06	1.61	1.53
2	D	712	HIS	CG-ND1	5.06	1.43	1.38
2	F	376	ARG	N-CA	-5.06	1.40	1.46
1	G	866	PHE	CA-CB	5.06	1.61	1.53
5	L	345	LEU	C-N	5.06	1.39	1.33
6	P	87	HIS	CB-CG	5.06	1.57	1.50
8	d	373	VAL	N-CA	-5.06	1.40	1.46
2	B	484	LEU	N-CA	-5.06	1.39	1.46
4	J	1007	SER	CA-C	-5.06	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	k	83	ALA	CA-C	-5.06	1.45	1.52
8	k	384	ILE	N-CA	-5.06	1.40	1.46
2	D	478	GLN	C-N	5.06	1.40	1.33
1	G	369	SER	CA-C	-5.06	1.45	1.52
3	I	321	SER	CA-CB	5.06	1.62	1.53
8	f	291	LEU	N-CA	-5.06	1.40	1.46
8	i	29	HIS	CE1-NE2	5.06	1.37	1.32
9	s	30	ASP	CA-CB	5.06	1.61	1.53
2	D	598	GLY	CA-C	-5.06	1.45	1.51
3	K	462	LEU	C-N	5.06	1.41	1.33
2	N	795	ALA	CA-CB	5.06	1.61	1.53
2	S	11	VAL	N-CA	-5.06	1.40	1.46
8	c	172	PHE	CA-CB	5.06	1.60	1.53
8	m	227	GLN	CA-C	-5.06	1.46	1.52
9	s	21	ILE	N-CA	5.06	1.52	1.46
4	J	905	GLY	C-N	5.06	1.41	1.33
8	j	251	ASN	C-N	5.06	1.40	1.33
1	C	657	VAL	N-CA	-5.05	1.40	1.46
2	H	300	HIS	CA-C	-5.05	1.46	1.52
2	H	873	ARG	N-CA	-5.05	1.39	1.46
3	K	588	LEU	C-N	5.05	1.41	1.33
1	M	750	LEU	CA-C	-5.05	1.46	1.52
7	X	661	ARG	C-O	-5.05	1.18	1.24
8	b	100	ALA	N-CA	-5.05	1.40	1.46
8	c	369	SER	N-CA	5.05	1.51	1.47
8	h	4	GLU	CA-C	-5.05	1.46	1.52
9	r	24	LEU	CA-CB	5.05	1.61	1.53
1	A	230	ARG	CD-NE	5.05	1.53	1.46
1	M	850	CYS	C-N	5.05	1.40	1.33
8	j	397	LYS	CA-CB	5.05	1.61	1.53
8	n	160	ARG	N-CA	-5.05	1.39	1.46
2	B	416	HIS	C-N	-5.05	1.27	1.33
2	H	596	LEU	CA-C	-5.05	1.45	1.52
4	J	564	LEU	N-CA	-5.05	1.40	1.46
5	L	417	LEU	C-N	5.05	1.40	1.33
8	a	348	PHE	N-CA	5.05	1.52	1.46
8	c	295	ARG	C-N	5.05	1.40	1.33
8	f	231	LEU	CA-C	-5.05	1.45	1.52
8	k	249	MET	CA-CB	5.05	1.63	1.53
1	G	853	SER	CA-C	-5.05	1.46	1.52
1	M	529	HIS	CA-C	-5.05	1.46	1.52
8	h	313	THR	CA-C	-5.05	1.47	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	i	390	ARG	CA-C	5.05	1.59	1.52
8	j	204	VAL	CA-C	-5.05	1.47	1.52
8	k	73	VAL	C-N	5.05	1.40	1.33
1	C	574	ILE	C-N	5.05	1.40	1.33
3	I	333	ARG	CD-NE	5.05	1.53	1.46
5	L	1456	ALA	N-CA	-5.05	1.40	1.46
1	M	314	ARG	CA-C	-5.05	1.45	1.52
8	i	295	ARG	CD-NE	5.05	1.53	1.46
2	B	529	PHE	CA-C	5.05	1.59	1.52
2	F	300	HIS	CA-CB	5.05	1.61	1.53
2	F	788	GLN	CD-NE2	5.05	1.43	1.33
1	M	395	TYR	CA-C	-5.05	1.45	1.52
2	N	256	VAL	C-N	5.05	1.40	1.34
2	N	416	HIS	CA-C	-5.05	1.46	1.52
8	j	96	HIS	ND1-CE1	5.05	1.37	1.32
8	l	226	SER	C-N	5.05	1.40	1.33
8	m	60	TYR	CA-CB	5.05	1.60	1.53
3	I	461	PRO	C-N	5.04	1.40	1.34
4	J	260	ILE	CA-CB	-5.04	1.47	1.54
6	P	237	GLU	CA-CB	5.04	1.59	1.53
8	j	113	LYS	CA-C	-5.04	1.46	1.52
1	E	852	HIS	N-CA	-5.04	1.40	1.46
5	L	332	GLY	CA-C	-5.04	1.46	1.52
7	X	634	HIS	CB-CG	5.04	1.57	1.50
8	a	290	VAL	C-N	5.04	1.40	1.33
8	c	53	TYR	CA-CB	5.04	1.61	1.53
8	j	298	LEU	CA-C	-5.04	1.45	1.52
1	A	611	GLY	CA-C	-5.04	1.47	1.52
1	A	613	GLU	CA-C	-5.04	1.46	1.52
2	B	502	ALA	N-CA	5.04	1.52	1.46
1	C	508	LEU	C-N	5.04	1.40	1.33
1	G	526	PHE	CA-C	-5.04	1.45	1.52
2	H	483	LEU	CA-C	-5.04	1.46	1.52
2	H	557	HIS	ND1-CE1	5.04	1.37	1.32
4	J	256	ASP	CA-C	-5.04	1.46	1.52
5	L	110	HIS	CG-CD2	-5.04	1.30	1.35
5	L	111	ALA	N-CA	5.04	1.52	1.46
1	M	302	TYR	C-N	5.04	1.41	1.33
2	F	858	GLN	C-N	5.04	1.40	1.33
8	j	149	LEU	C-N	5.04	1.40	1.33
1	A	240	ARG	CA-C	-5.04	1.46	1.52
3	I	391	ASP	CA-C	-5.04	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
4	J	837	GLN	CA-C	-5.04	1.46	1.52
3	K	169	ARG	CA-C	5.04	1.59	1.52
6	P	19	ALA	C-N	5.04	1.39	1.33
6	P	147	ARG	CZ-NH2	5.04	1.40	1.33
8	i	324	ILE	CA-CB	-5.04	1.48	1.54
8	j	195	LEU	C-O	-5.04	1.17	1.24
2	F	282	VAL	CA-C	-5.04	1.46	1.52
3	I	303	GLN	CA-CB	5.04	1.62	1.53
6	P	113	LYS	N-CA	-5.04	1.39	1.46
8	g	373	VAL	CA-C	5.04	1.58	1.52
2	F	760	ARG	NE-CZ	5.04	1.38	1.33
1	G	686	LEU	C-N	5.04	1.40	1.33
8	g	372	ARG	C-N	5.04	1.39	1.33
8	i	127	ASP	CA-C	-5.04	1.46	1.52
8	i	149	LEU	CA-CB	5.04	1.61	1.53
8	j	315	HIS	CB-CG	5.04	1.57	1.50
8	m	89	GLU	CA-CB	5.03	1.61	1.53
8	n	436	HIS	CG-ND1	5.03	1.43	1.38
9	o	55	LYS	CA-C	-5.03	1.46	1.52
6	P	86	TRP	NE1-CE2	-5.03	1.31	1.37
6	P	140	LEU	CA-C	-5.03	1.46	1.52
7	W	625	LEU	CA-CB	5.03	1.61	1.53
8	d	250	ASN	CA-CB	5.03	1.61	1.53
1	A	272	VAL	C-O	-5.03	1.17	1.24
2	B	656	MET	C-O	-5.03	1.17	1.24
2	D	463	TYR	CA-C	-5.03	1.46	1.52
5	L	1577	ASN	CA-C	-5.03	1.46	1.52
1	M	636	ARG	CA-C	-5.03	1.45	1.52
2	N	745	HIS	CD2-NE2	5.03	1.43	1.37
8	g	152	TYR	CA-C	-5.03	1.46	1.52
8	h	423	ASN	N-CA	-5.03	1.40	1.46
8	k	180	HIS	CD2-NE2	5.03	1.43	1.37
9	t	40	LEU	C-O	-5.03	1.18	1.24
2	N	462	LYS	C-N	5.03	1.40	1.33
6	P	267	LEU	C-N	5.03	1.40	1.33
8	d	114	ILE	CA-C	-5.03	1.46	1.52
8	g	103	ASN	CA-C	-5.03	1.46	1.52
8	j	86	TYR	CZ-OH	5.03	1.48	1.38
2	B	361	LEU	C-N	5.03	1.40	1.33
8	c	218	LEU	C-N	5.03	1.40	1.33
8	d	209	ALA	C-N	5.03	1.40	1.33
8	e	23	LYS	CA-CB	5.03	1.61	1.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
8	e	194	ARG	CD-NE	5.03	1.53	1.46
8	k	200	ASP	CA-C	-5.03	1.47	1.52
1	C	763	ARG	CA-C	-5.03	1.45	1.52
2	D	372	ASP	CA-CB	5.03	1.61	1.53
2	D	690	LEU	N-CA	5.03	1.52	1.46
2	D	822	ALA	CA-C	5.03	1.59	1.52
5	L	420	LEU	CA-CB	5.03	1.60	1.53
8	b	232	VAL	N-CA	-5.03	1.39	1.46
8	j	125	GLU	N-CA	-5.03	1.40	1.46
2	F	701	HIS	CB-CG	5.02	1.57	1.50
1	M	296	ARG	CA-CB	5.02	1.61	1.53
7	V	615	ARG	NE-CZ	5.02	1.38	1.33
8	h	171	VAL	CA-CB	-5.02	1.47	1.53
1	A	677	GLY	C-N	5.02	1.40	1.34
2	F	802	ARG	C-N	5.02	1.40	1.33
3	K	145	SER	CA-CB	5.02	1.61	1.53
8	b	107	GLY	C-N	5.02	1.40	1.34
3	I	612	ASP	C-O	-5.02	1.17	1.24
8	e	38	GLU	CA-C	-5.02	1.46	1.52
9	p	32	GLU	C-N	5.02	1.40	1.33
1	A	838	LEU	N-CA	-5.02	1.39	1.46
1	C	448	LYS	C-N	5.02	1.40	1.33
2	H	652	THR	N-CA	-5.02	1.40	1.46
8	a	162	PRO	C-N	5.02	1.40	1.33
8	c	399	ARG	CZ-NH1	5.02	1.39	1.32
1	E	633	ALA	C-N	5.02	1.40	1.33
1	G	360	ASP	CA-C	-5.02	1.46	1.52
2	H	563	ARG	CZ-NH1	5.02	1.39	1.32
2	H	802	ARG	C-N	5.02	1.40	1.34
3	K	593	CYS	N-CA	-5.02	1.40	1.46
1	M	332	ARG	NE-CZ	5.02	1.38	1.33
1	M	519	PHE	CA-C	-5.02	1.46	1.52
8	f	58	GLU	C-N	5.02	1.39	1.33
8	f	309	ARG	CZ-NH2	5.02	1.40	1.33
8	l	321	LEU	C-N	-5.02	1.27	1.33
9	t	47	PRO	CA-C	-5.02	1.44	1.52
2	B	391	LYS	CA-C	-5.02	1.46	1.52
1	C	334	MET	CA-CB	5.02	1.61	1.53
6	P	285	CYS	CA-C	-5.02	1.46	1.52
1	A	227	VAL	C-N	5.01	1.40	1.33
2	B	404	LYS	CA-C	-5.01	1.45	1.52
3	I	390	HIS	ND1-CE1	5.01	1.37	1.32

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	I	640	ASP	CA-C	5.01	1.59	1.52
3	K	449	TRP	CA-CB	5.01	1.61	1.53
5	L	47	LEU	CA-C	5.01	1.59	1.52
5	L	97	TYR	CA-CB	5.01	1.61	1.53
2	N	581	LYS	CA-CB	5.01	1.60	1.53
8	c	134	GLY	CA-C	-5.01	1.46	1.52
8	h	160	ARG	CZ-NH1	5.01	1.39	1.32
8	i	340	ILE	N-CA	5.01	1.52	1.46
8	k	10	LEU	C-N	5.01	1.39	1.33
8	k	414	PHE	CA-CB	5.01	1.61	1.53
8	n	335	LYS	CA-C	5.01	1.59	1.52
3	I	22	ARG	NE-CZ	5.01	1.38	1.33
8	a	114	ILE	CA-CB	-5.01	1.47	1.54
8	b	96	HIS	ND1-CE1	5.01	1.37	1.32
8	b	384	ILE	CB-CG1	5.01	1.63	1.53
2	B	538	PHE	CA-CB	5.01	1.61	1.53
2	H	418	LEU	N-CA	-5.01	1.40	1.46
5	L	442	GLN	CA-CB	5.01	1.61	1.53
1	M	563	ALA	C-N	5.01	1.40	1.33
2	N	571	ASP	CA-CB	5.01	1.62	1.53
2	O	47	VAL	C-N	5.01	1.40	1.33
7	X	617	ALA	C-N	5.01	1.40	1.33
8	d	219	HIS	CA-C	-5.01	1.46	1.53
8	h	272	GLY	C-N	5.01	1.40	1.33
2	B	848	ILE	CA-C	-5.01	1.46	1.53
2	B	849	LEU	C-O	-5.01	1.17	1.24
1	C	282	PHE	CA-C	5.01	1.59	1.52
2	D	812	ARG	C-N	5.01	1.41	1.33
1	M	464	HIS	C-N	5.01	1.40	1.33
6	P	304	THR	CA-CB	-5.01	1.46	1.53
8	b	28	GLU	CA-C	-5.01	1.46	1.52
8	c	139	HIS	ND1-CE1	5.01	1.37	1.32
8	c	272	GLY	CA-C	-5.01	1.44	1.51
8	d	272	GLY	C-N	5.01	1.40	1.33
8	i	418	PHE	C-N	5.01	1.41	1.33
8	k	141	ILE	C-N	5.01	1.40	1.33
2	B	879	LEU	CB-CG	5.01	1.63	1.53
2	F	753	PHE	N-CA	-5.01	1.40	1.46
3	I	365	ARG	NE-CZ	5.01	1.38	1.33
3	K	482	LEU	CA-CB	5.01	1.61	1.53
8	n	287	LYS	CA-C	-5.01	1.46	1.52
2	B	697	SER	CA-C	-5.01	1.46	1.52

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Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	E	651	GLU	CA-CB	5.01	1.61	1.53
2	F	853	TYR	C-N	5.01	1.40	1.34
3	K	109	GLN	N-CA	-5.01	1.39	1.46
8	c	65	VAL	CA-C	-5.01	1.46	1.52
8	c	411	GLU	CA-C	-5.01	1.46	1.52
8	h	163	LYS	C-N	5.01	1.40	1.33
2	D	707	ALA	CA-C	-5.00	1.46	1.52
2	H	269	ASN	C-O	-5.00	1.17	1.24
2	T	75	SER	C-O	-5.00	1.18	1.24
2	H	512	ALA	C-N	5.00	1.40	1.33
3	I	109	GLN	C-N	5.00	1.40	1.34
1	M	379	THR	CA-CB	-5.00	1.45	1.53
2	R	93	ILE	C-N	5.00	1.40	1.33
8	g	299	GLN	CA-CB	5.00	1.61	1.53
8	i	100	ALA	CA-C	-5.00	1.46	1.52
8	i	372	ARG	CZ-NH2	5.00	1.40	1.33
8	m	265	ARG	CZ-NH2	5.00	1.40	1.33
1	E	363	PHE	CA-C	-5.00	1.46	1.52
3	K	497	LEU	N-CA	-5.00	1.39	1.46
5	L	1506	ILE	CB-CG1	5.00	1.63	1.53
8	a	29	HIS	CA-C	-5.00	1.45	1.52
8	i	382	THR	N-CA	-5.00	1.39	1.46

All (7532) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	515	ARG	NE-CZ-NH1	-27.59	93.91	121.50
5	L	1469	VAL	N-CA-C	-15.33	96.72	113.43
8	f	139	HIS	CA-CB-CG	14.37	128.17	113.80
8	k	187	ASN	CA-CB-CG	14.11	126.71	112.60
3	K	515	ARG	NE-CZ-NH2	13.77	131.59	119.20
1	C	289	HIS	CA-CB-CG	13.61	127.41	113.80
4	J	308	SER	N-CA-C	-13.16	94.16	112.45
8	g	348	PHE	CA-CB-CG	-12.99	100.81	113.80
3	K	649	ASP	CA-CB-CG	12.80	125.40	112.60
8	i	366	TYR	CA-C-N	12.69	135.95	120.09
8	i	366	TYR	C-N-CA	12.69	135.95	120.09
2	F	616	ILE	N-CA-C	-12.65	101.69	113.71
8	e	412	ASP	CA-CB-CG	12.59	125.19	112.60
8	j	117	ASP	CA-CB-CG	12.46	125.06	112.60
2	D	534	ASP	CA-CB-CG	12.37	124.97	112.60
1	C	529	HIS	CA-CB-CG	-12.21	101.59	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	318	ILE	N-CA-C	-12.16	101.90	112.12
2	T	46	THR	N-CA-C	-12.14	98.13	113.43
8	g	334	HIS	CA-CB-CG	12.12	125.92	113.80
3	I	16	ILE	CB-CG1-CD1	12.10	139.20	113.80
2	N	264	PHE	CA-CB-CG	-12.04	101.76	113.80
8	e	163	LYS	N-CA-C	-11.90	95.73	110.61
8	a	122	ILE	N-CA-C	-11.90	100.87	112.17
2	F	394	GLU	N-CA-C	-11.89	101.07	114.62
1	M	540	LYS	O-C-N	11.86	129.30	121.71
8	l	160	ARG	N-CA-C	-11.86	98.79	113.97
8	k	310	ASP	CA-CB-CG	11.85	124.45	112.60
4	J	396	ASP	CA-CB-CG	11.75	124.35	112.60
3	K	515	ARG	NH1-CZ-NH2	11.69	134.49	119.30
8	g	417	ASN	CA-CB-CG	11.68	124.28	112.60
8	i	84	ASN	CA-CB-CG	11.66	124.26	112.60
9	q	30	ASP	CA-C-N	11.65	135.89	120.28
9	q	30	ASP	C-N-CA	11.65	135.89	120.28
8	j	372	ARG	NE-CZ-NH2	-11.55	108.81	119.20
2	H	650	VAL	N-CA-C	-11.43	101.93	113.47
8	l	436	HIS	CA-CB-CG	11.41	125.21	113.80
6	P	97	ALA	CA-C-O	-11.40	110.31	119.66
2	H	612	ASP	CA-CB-CG	-11.37	101.23	112.60
1	C	691	ASN	OD1-CG-ND2	11.37	133.97	122.60
8	b	11	GLY	CA-C-O	-11.32	114.30	122.45
4	J	728	ASP	CA-CB-CG	11.32	123.92	112.60
8	m	318	ILE	N-CA-C	-11.28	102.64	112.12
2	N	802	ARG	NE-CZ-NH2	11.22	129.30	119.20
3	K	560	HIS	CA-CB-CG	11.22	125.02	113.80
8	h	243	LEU	N-CA-C	-11.20	99.31	113.43
8	k	11	GLY	CA-C-O	-11.20	113.67	122.52
8	j	180	HIS	N-CA-C	-11.15	96.24	111.96
2	B	560	ALA	N-CA-C	11.14	123.50	111.36
3	K	13	PRO	CA-C-N	11.10	134.68	122.69
3	K	13	PRO	C-N-CA	11.10	134.68	122.69
1	M	570	ASP	CA-CB-CG	11.04	123.64	112.60
5	L	368	THR	N-CA-C	-11.01	100.58	114.56
8	f	119	PHE	CA-CB-CG	-10.99	102.81	113.80
8	i	352	GLY	CA-C-N	10.96	131.66	119.93
8	i	352	GLY	C-N-CA	10.96	131.66	119.93
8	d	292	ASP	CA-CB-CG	10.94	123.54	112.60
8	h	412	ASP	CA-CB-CG	10.87	123.47	112.60
1	G	543	ASP	CA-CB-CG	10.85	123.45	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	612	ASP	N-CA-C	-10.85	100.08	113.97
2	B	288	ASP	CA-CB-CG	10.84	123.44	112.60
2	N	631	ASP	CA-C-N	10.82	135.15	120.54
2	N	631	ASP	C-N-CA	10.82	135.15	120.54
8	c	183	VAL	N-CA-C	-10.80	102.13	112.29
3	I	299	ILE	N-CA-C	-10.80	101.33	111.48
3	K	601	GLY	O-C-N	10.80	124.96	121.07
8	m	127	ASP	CA-CB-CG	10.78	123.38	112.60
3	K	276	ILE	N-CA-C	-10.77	100.16	111.58
2	H	462	LYS	N-CA-C	-10.77	102.35	114.62
4	J	935	ARG	N-CA-C	10.73	122.73	111.14
2	D	802	ARG	NE-CZ-NH1	-10.72	110.78	121.50
2	B	634	TRP	N-CA-C	10.69	122.93	111.28
6	P	342	GLY	CA-C-N	10.64	133.74	120.22
6	P	342	GLY	C-N-CA	10.64	133.74	120.22
2	F	470	ILE	CA-C-N	10.62	130.74	119.90
2	F	470	ILE	C-N-CA	10.62	130.74	119.90
6	P	51	ASP	CA-CB-CG	10.60	123.20	112.60
2	B	455	THR	N-CA-C	-10.54	92.89	109.23
8	e	176	ASP	CA-CB-CG	10.52	123.12	112.60
8	l	85	LEU	N-CA-C	-10.52	102.63	114.62
1	G	428	ASP	CA-CB-CG	10.50	123.10	112.60
2	D	705	ILE	O-C-N	10.50	132.82	121.90
7	U	634	HIS	CA-CB-CG	10.48	124.28	113.80
1	A	541	PRO	CA-C-O	-10.48	110.27	121.27
8	n	404	PHE	CA-CB-CG	-10.47	103.33	113.80
8	g	52	PHE	CA-CB-CG	-10.44	103.36	113.80
8	j	184	GLN	CA-C-O	-10.39	108.26	118.34
1	E	526	PHE	CA-CB-CG	-10.39	103.41	113.80
8	m	29	HIS	CE1-NE2-CD2	-10.31	98.69	109.00
1	E	460	ARG	N-CA-C	10.29	123.75	111.82
8	j	103	ASN	CA-CB-CG	10.29	122.89	112.60
1	A	368	ASP	CA-CB-CG	10.28	122.88	112.60
8	h	60	TYR	CA-C-N	10.28	133.71	123.02
8	h	60	TYR	C-N-CA	10.28	133.71	123.02
8	d	77	ILE	N-CA-C	-10.27	103.96	113.71
8	l	364	SER	CA-C-N	10.23	132.62	119.84
8	l	364	SER	C-N-CA	10.23	132.62	119.84
8	d	265	ARG	NE-CZ-NH2	-10.20	110.02	119.20
9	q	60	ALA	CA-C-O	-10.19	109.75	120.55
5	L	104	ILE	N-CA-C	-10.17	103.44	113.20
8	c	93	LEU	N-CA-C	-10.12	93.95	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	s	41	CYS	CA-C-O	-10.12	109.82	120.55
2	B	394	GLU	N-CA-C	-10.10	100.82	113.55
1	E	238	VAL	CA-C-N	10.10	131.19	119.98
1	E	238	VAL	C-N-CA	10.10	131.19	119.98
2	D	442	TYR	N-CA-C	-10.08	103.12	114.62
8	m	276	LEU	N-CA-C	-10.08	103.13	114.62
8	j	407	GLN	N-CA-C	-10.07	100.31	112.59
8	i	59	HIS	N-CA-C	-10.06	89.36	110.80
2	S	53	LEU	N-CA-C	10.06	122.24	111.28
8	i	187	ASN	CA-CB-CG	10.05	122.65	112.60
1	G	360	ASP	CA-CB-CG	10.05	122.65	112.60
8	m	29	HIS	CA-C-N	10.05	135.28	120.11
8	m	29	HIS	C-N-CA	10.05	135.28	120.11
2	D	269	ASN	CA-CB-CG	10.03	122.63	112.60
4	J	820	PHE	CA-CB-CG	10.02	123.82	113.80
8	f	341	ARG	NE-CZ-NH2	10.00	128.20	119.20
8	l	245	TYR	N-CA-C	-9.99	92.05	108.23
2	H	285	SER	N-CA-C	-9.97	101.90	114.56
8	d	408	PHE	N-CA-C	-9.95	101.71	114.04
2	S	89	ASN	CA-C-N	9.94	133.60	120.28
2	S	89	ASN	C-N-CA	9.94	133.60	120.28
8	i	183	VAL	N-CA-C	-9.92	102.97	112.29
8	a	417	ASN	CA-CB-CG	9.92	122.52	112.60
8	m	274	THR	CA-C-O	-9.90	106.60	120.16
1	A	216	LEU	CA-C-N	9.90	133.23	120.56
1	A	216	LEU	C-N-CA	9.90	133.23	120.56
8	k	158	ASN	CA-CB-CG	9.89	122.49	112.60
8	k	404	PHE	CA-CB-CG	-9.89	103.91	113.80
1	A	625	LEU	CA-C-O	9.88	130.91	119.35
1	M	514	SER	CA-C-N	9.88	134.00	120.46
1	M	514	SER	C-N-CA	9.88	134.00	120.46
8	f	180	HIS	CA-C-O	9.86	129.71	118.47
1	A	673	LYS	N-CA-C	-9.86	101.38	113.41
8	b	87	ASN	CB-CA-C	-9.86	98.81	110.15
2	N	702	GLN	OE1-CD-NE2	9.85	132.45	122.60
8	k	180	HIS	N-CA-C	-9.84	101.84	114.04
2	F	766	GLU	N-CA-C	-9.82	103.43	114.62
8	g	222	ASN	CA-C-N	9.79	129.87	119.78
8	g	222	ASN	C-N-CA	9.79	129.87	119.78
8	e	48	LYS	O-C-N	9.78	132.48	122.12
2	N	462	LYS	N-CA-C	-9.77	101.93	114.04
9	r	19	LEU	O-C-N	-9.77	111.77	122.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	391	LYS	CA-C-N	9.74	129.27	119.92
2	B	391	LYS	C-N-CA	9.74	129.27	119.92
8	g	422	ASP	CA-CB-CG	9.74	122.34	112.60
1	A	266	ALA	CA-C-N	9.72	133.08	120.44
1	A	266	ALA	C-N-CA	9.72	133.08	120.44
8	i	124	ARG	N-CA-C	-9.72	100.28	113.30
2	F	499	GLN	OE1-CD-NE2	9.71	132.31	122.60
2	B	264	PHE	CA-CB-CG	-9.70	104.10	113.80
2	H	646	PRO	N-CA-C	-9.69	104.60	114.68
5	L	603	ASN	CA-CB-CG	9.69	122.29	112.60
1	M	517	HIS	CA-CB-CG	9.69	123.49	113.80
8	k	298	LEU	N-CA-C	-9.69	100.59	111.82
8	c	292	ASP	CA-CB-CG	9.65	122.25	112.60
2	S	70	ASP	CA-C-N	9.60	130.63	119.98
2	S	70	ASP	C-N-CA	9.60	130.63	119.98
1	E	379	THR	CA-C-O	-9.59	110.25	120.42
8	l	408	PHE	N-CA-C	-9.59	101.94	114.31
2	B	686	ASN	CA-CB-CG	9.59	122.19	112.60
2	S	91	TRP	CA-C-N	9.59	133.90	120.29
2	S	91	TRP	C-N-CA	9.59	133.90	120.29
1	M	367	GLY	CA-C-O	-9.58	114.53	122.29
8	m	348	PHE	CA-CB-CG	-9.57	104.22	113.80
8	i	425	ARG	NE-CZ-NH2	9.56	127.81	119.20
3	K	409	ASN	CA-CB-CG	9.56	122.16	112.60
8	e	180	HIS	N-CA-C	-9.55	101.99	114.31
1	A	727	SER	N-CA-C	9.50	121.72	111.36
8	d	115	HIS	CA-CB-CG	9.50	123.30	113.80
8	h	372	ARG	NE-CZ-NH2	-9.49	110.66	119.20
8	c	56	ASP	CA-CB-CG	9.48	122.08	112.60
5	L	512	ASN	CA-CB-CG	9.47	122.08	112.60
1	G	511	HIS	CB-CG-CD2	-9.47	118.89	131.20
2	O	81	LEU	CA-C-N	9.46	133.73	120.29
2	O	81	LEU	C-N-CA	9.46	133.73	120.29
4	J	495	ASP	CA-C-N	9.46	127.90	120.33
4	J	495	ASP	C-N-CA	9.46	127.90	120.33
8	d	21	PHE	CA-CB-CG	9.46	123.26	113.80
8	d	318	ILE	N-CA-C	-9.46	104.18	112.12
2	T	51	GLU	CA-C-N	9.45	132.94	120.28
2	T	51	GLU	C-N-CA	9.45	132.94	120.28
8	c	218	LEU	N-CA-C	-9.44	103.86	114.62
4	J	303	GLN	OE1-CD-NE2	9.44	132.04	122.60
2	S	50	ASP	N-CA-CB	9.43	126.43	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	124	ARG	N-CA-C	-9.43	101.02	114.12
8	g	425	ARG	NE-CZ-NH1	9.42	130.92	121.50
2	B	822	ALA	CA-C-N	9.42	134.63	120.31
2	B	822	ALA	C-N-CA	9.42	134.63	120.31
8	a	396	ASP	CA-CB-CG	9.41	122.01	112.60
2	H	880	ASP	CA-CB-CG	9.40	122.00	112.60
8	n	290	VAL	N-CA-C	-9.39	101.92	111.88
2	H	605	ARG	NE-CZ-NH1	-9.38	112.12	121.50
8	j	159	ASP	CA-CB-CG	9.37	121.97	112.60
1	G	279	ASN	CA-CB-CG	9.37	121.97	112.60
2	F	456	ASP	CA-CB-CG	9.35	121.95	112.60
2	H	526	GLU	N-CA-C	-9.35	103.96	114.62
8	k	282	VAL	N-CA-C	-9.35	103.93	112.90
4	J	964	HIS	CB-CG-CD2	-9.34	119.06	131.20
8	n	81	PRO	N-CA-C	-9.34	102.68	114.35
8	j	184	GLN	O-C-N	9.33	129.48	120.71
8	k	371	HIS	CE1-NE2-CD2	-9.33	99.67	109.00
8	k	29	HIS	CA-CB-CG	9.30	123.10	113.80
8	h	52	PHE	CA-CB-CG	-9.28	104.52	113.80
2	B	843	ARG	N-CA-C	9.28	121.39	111.28
8	b	139	HIS	CA-CB-CG	9.28	123.08	113.80
8	f	349	ILE	N-CA-CB	9.28	120.16	110.23
3	K	43	ASN	CA-CB-CG	9.27	121.87	112.60
2	H	739	LYS	N-CA-C	-9.27	101.98	113.38
8	m	29	HIS	ND1-CE1-NE2	9.27	117.67	108.40
8	c	181	VAL	CB-CA-C	9.27	121.75	110.73
2	B	443	HIS	CA-CB-CG	-9.26	104.54	113.80
2	R	60	LYS	N-CA-CB	9.26	123.73	110.12
8	h	207	ASN	OD1-CG-ND2	9.26	131.86	122.60
3	K	518	ASN	CA-CB-CG	9.24	121.84	112.60
5	L	1554	HIS	CE1-NE2-CD2	-9.24	99.76	109.00
8	a	216	ASP	N-CA-C	-9.24	101.71	113.72
8	k	46	ASP	N-CA-C	-9.23	101.54	113.17
8	c	401	ARG	CA-C-N	9.23	135.46	122.36
8	c	401	ARG	C-N-CA	9.23	135.46	122.36
8	l	59	HIS	CA-CB-CG	9.23	123.03	113.80
2	R	52	PHE	CA-CB-CG	-9.22	104.58	113.80
2	B	786	ASN	CA-CB-CG	9.21	121.81	112.60
3	I	35	HIS	CA-CB-CG	-9.20	104.60	113.80
2	S	89	ASN	CA-CB-CG	-9.19	103.41	112.60
2	B	301	ASN	CA-CB-CG	9.19	121.79	112.60
8	m	408	PHE	N-CA-C	-9.19	100.68	114.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	388	ASP	CA-CB-CG	9.18	121.78	112.60
2	R	92	SER	CA-C-O	9.18	130.28	120.55
8	d	393	ARG	NE-CZ-NH2	9.18	127.46	119.20
1	E	621	VAL	N-CA-C	-9.17	93.96	108.81
2	F	442	TYR	N-CA-C	-9.16	100.71	114.64
2	N	621	ASP	CA-C-N	9.16	134.47	122.93
2	N	621	ASP	C-N-CA	9.16	134.47	122.93
8	d	332	GLN	N-CA-C	-9.13	100.54	112.41
1	C	492	ASN	CA-CB-CG	9.12	121.72	112.60
1	G	465	ASP	CA-CB-CG	9.12	121.72	112.60
8	l	405	LEU	N-CA-C	-9.10	101.90	113.72
5	L	1386	TYR	N-CA-C	9.09	121.27	111.36
1	E	219	ASP	CA-CB-CG	9.09	121.69	112.60
2	O	29	ALA	N-CA-C	9.09	121.18	111.28
6	P	96	VAL	N-CA-C	-9.09	94.85	107.75
3	K	390	HIS	CA-CB-CG	9.08	122.88	113.80
1	G	540	LYS	N-CA-C	-9.08	97.72	108.25
1	G	492	ASN	O-C-N	-9.08	111.10	122.27
8	b	61	ILE	N-CA-C	-9.07	97.89	107.60
1	E	633	ALA	CA-C-N	9.07	133.16	120.29
1	E	633	ALA	C-N-CA	9.07	133.16	120.29
2	H	874	PHE	CA-C-O	9.06	130.03	120.42
8	c	49	ASP	CA-CB-CG	9.06	121.66	112.60
3	I	572	PHE	CA-CB-CG	-9.04	104.76	113.80
4	J	420	PRO	CA-C-O	-9.04	107.45	120.56
5	L	234	MET	CA-C-N	9.04	129.69	120.38
5	L	234	MET	C-N-CA	9.04	129.69	120.38
4	J	262	THR	CA-C-N	9.03	138.79	121.54
4	J	262	THR	C-N-CA	9.03	138.79	121.54
8	h	119	PHE	CA-CB-CG	-9.03	104.77	113.80
2	D	407	ASP	CA-CB-CG	9.02	121.62	112.60
8	d	412	ASP	CA-CB-CG	9.02	121.62	112.60
1	C	470	ASP	CA-CB-CG	9.02	121.61	112.60
1	C	844	MET	CG-SD-CE	-9.02	81.06	100.90
1	G	834	HIS	CB-CG-CD2	-9.01	119.48	131.20
8	n	296	ARG	NE-CZ-NH2	9.00	127.30	119.20
8	f	251	ASN	CA-CB-CG	9.00	121.60	112.60
8	b	109	SER	N-CA-C	-9.00	102.08	113.23
8	e	292	ASP	CA-CB-CG	8.99	121.59	112.60
8	i	311	ARG	N-CA-C	-8.99	100.07	112.30
3	I	14	GLY	N-CA-C	-8.97	102.03	112.79
8	d	314	ASN	CA-CB-CG	8.96	121.56	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	e	295	ARG	N-CA-C	-8.95	101.68	114.12
1	G	834	HIS	CB-CG-ND1	8.95	136.12	122.70
8	c	356	ILE	N-CA-CB	8.95	122.83	111.83
8	j	143	GLY	N-CA-C	-8.94	103.46	111.95
8	d	265	ARG	NE-CZ-NH1	8.93	130.43	121.50
1	C	559	ARG	NE-CZ-NH1	8.92	130.42	121.50
1	A	630	ASN	CA-CB-CG	8.91	121.51	112.60
1	M	702	GLU	O-C-N	-8.91	111.07	121.32
1	A	610	SER	CA-C-N	8.91	128.56	120.10
1	A	610	SER	C-N-CA	8.91	128.56	120.10
5	L	1575	PHE	CA-CB-CG	8.90	122.70	113.80
7	V	607	ILE	CA-C-N	8.90	132.21	120.28
7	V	607	ILE	C-N-CA	8.90	132.21	120.28
8	j	68	ASP	CA-C-N	8.90	132.01	120.44
8	j	68	ASP	C-N-CA	8.90	132.01	120.44
1	A	854	MET	CA-C-O	8.89	130.19	119.97
8	n	369	SER	CA-C-O	8.89	128.33	119.97
5	L	1691	PHE	N-CA-CB	8.88	123.31	110.16
5	L	546	ARG	N-CA-C	-8.88	102.00	112.92
2	H	287	LYS	N-CA-C	-8.87	102.18	113.72
2	H	272	ASN	CA-CB-CG	8.86	121.46	112.60
8	j	215	THR	CA-CB-OG1	8.86	122.88	109.60
8	n	393	ARG	NE-CZ-NH1	8.86	130.36	121.50
2	B	481	LYS	N-CA-C	-8.85	101.58	111.14
2	D	612	ASP	CA-C-N	8.85	130.76	119.78
2	D	612	ASP	C-N-CA	8.85	130.76	119.78
8	n	90	ASN	N-CA-C	-8.85	101.07	114.16
1	A	451	SER	N-CA-C	8.84	122.08	111.82
8	g	225	PHE	CA-CB-CG	8.84	122.64	113.80
8	l	367	LEU	CA-C-O	-8.83	110.20	118.33
2	B	371	PHE	CA-CB-CG	8.82	122.62	113.80
4	J	788	VAL	CA-C-N	8.81	138.37	121.54
4	J	788	VAL	C-N-CA	8.81	138.37	121.54
3	K	22	ARG	NE-CZ-NH2	-8.81	111.27	119.20
8	j	71	PRO	N-CA-C	-8.81	103.34	114.35
8	j	343	ARG	NE-CZ-NH2	-8.81	111.27	119.20
2	Q	70	ASP	CA-C-N	8.80	129.75	119.98
2	Q	70	ASP	C-N-CA	8.80	129.75	119.98
4	J	418	GLU	N-CA-C	-8.80	102.56	113.38
8	f	222	ASN	CA-C-N	8.79	129.33	119.93
8	f	222	ASN	C-N-CA	8.79	129.33	119.93
4	J	291	ASN	CA-CB-CG	8.79	121.39	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	f	181	VAL	N-CA-C	-8.78	94.58	108.81
3	I	12	TYR	CA-C-N	8.78	128.72	120.03
3	I	12	TYR	C-N-CA	8.78	128.72	120.03
2	B	316	PHE	CA-C-N	8.76	129.64	120.00
2	B	316	PHE	C-N-CA	8.76	129.64	120.00
4	J	305	CYS	CA-C-N	8.75	131.82	120.44
4	J	305	CYS	C-N-CA	8.75	131.82	120.44
2	N	517	ASP	CA-CB-CG	8.75	121.35	112.60
8	m	117	ASP	CA-CB-CG	8.75	121.35	112.60
8	g	178	MET	N-CA-C	-8.73	100.60	112.03
2	F	251	ARG	CA-C-N	8.72	133.57	120.31
2	F	251	ARG	C-N-CA	8.72	133.57	120.31
1	E	328	GLN	O-C-N	-8.72	111.29	121.32
3	K	193	HIS	N-CA-C	-8.71	103.77	114.75
3	K	500	GLN	N-CA-CB	8.71	122.89	110.44
8	m	40	PHE	CA-CB-CG	-8.70	105.10	113.80
1	E	834	HIS	CE1-NE2-CD2	-8.70	100.30	109.00
2	B	416	HIS	CE1-NE2-CD2	-8.69	100.31	109.00
3	K	573	ILE	N-CA-C	-8.69	104.86	111.90
8	d	245	TYR	CA-C-N	8.69	128.76	119.90
8	d	245	TYR	C-N-CA	8.69	128.76	119.90
5	L	1386	TYR	CB-CG-CD1	8.69	133.83	120.80
1	A	279	ASN	CA-CB-CG	8.68	121.28	112.60
8	b	432	ILE	N-CA-C	8.67	118.68	110.53
1	A	235	GLN	CA-CB-CG	8.66	131.43	114.10
2	F	880	ASP	CA-CB-CG	-8.66	103.94	112.60
3	K	383	PRO	CA-C-N	8.66	130.67	119.84
3	K	383	PRO	C-N-CA	8.66	130.67	119.84
8	k	159	ASP	CA-CB-CG	8.66	121.26	112.60
8	i	56	ASP	CA-CB-CG	8.65	121.25	112.60
1	A	718	ILE	N-CA-C	-8.65	104.00	113.43
7	U	607	ILE	N-CA-CB	8.64	123.55	110.58
8	j	409	ARG	NE-CZ-NH1	8.64	130.14	121.50
8	a	412	ASP	CA-CB-CG	8.63	121.23	112.60
2	D	755	ASP	CA-CB-CG	8.63	121.23	112.60
2	D	342	HIS	CE1-NE2-CD2	-8.62	100.38	109.00
3	I	123	ASN	CA-CB-CG	8.62	121.22	112.60
2	F	436	GLY	CA-C-N	8.61	133.04	120.90
2	F	436	GLY	C-N-CA	8.61	133.04	120.90
3	K	350	LEU	CA-C-O	8.61	129.57	120.70
7	W	650	ASN	CA-C-N	8.61	131.81	120.28
7	W	650	ASN	C-N-CA	8.61	131.81	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	S	37	ARG	NE-CZ-NH2	8.61	126.94	119.20
8	c	29	HIS	CE1-NE2-CD2	-8.61	100.39	109.00
2	N	779	ASP	CA-CB-CG	8.60	121.20	112.60
8	b	423	ASN	OD1-CG-ND2	-8.60	114.00	122.60
1	C	529	HIS	CB-CG-CD2	-8.60	120.02	131.20
8	n	286	ARG	N-CA-C	-8.59	99.61	113.19
3	K	267	TYR	N-CA-C	-8.59	102.35	113.17
1	A	522	ASP	CA-CB-CG	8.58	121.18	112.60
8	l	305	VAL	CA-C-N	8.58	135.05	121.66
8	l	305	VAL	C-N-CA	8.58	135.05	121.66
8	f	29	HIS	N-CA-C	-8.58	102.82	113.20
1	E	471	ALA	N-CA-C	-8.58	103.33	113.88
8	b	409	ARG	N-CA-C	-8.58	100.64	112.30
3	I	16	ILE	N-CA-C	-8.57	102.95	112.80
1	G	296	ARG	NE-CZ-NH1	-8.56	112.94	121.50
8	b	249	MET	N-CA-C	-8.56	94.11	108.75
9	p	27	THR	N-CA-C	-8.56	102.59	113.72
8	e	310	ASP	N-CA-C	-8.55	100.88	112.94
3	K	164	GLY	O-C-N	-8.55	115.14	122.92
8	j	183	VAL	N-CA-C	-8.55	104.25	112.29
1	M	549	ARG	NE-CZ-NH2	8.55	126.89	119.20
8	l	295	ARG	N-CA-C	-8.54	102.98	112.72
8	e	70	GLU	N-CA-CB	8.54	122.48	110.01
2	F	553	ASN	CA-CB-CG	8.54	121.14	112.60
8	a	288	THR	CA-C-N	8.54	133.64	120.75
8	a	288	THR	C-N-CA	8.54	133.64	120.75
8	e	252	ASP	N-CA-C	-8.53	95.62	109.96
1	E	834	HIS	ND1-CE1-NE2	8.53	116.93	108.40
1	G	656	ASN	CA-CB-CG	8.53	121.13	112.60
2	S	29	ALA	CA-C-N	8.53	131.71	120.28
2	S	29	ALA	C-N-CA	8.53	131.71	120.28
2	B	635	ASP	CA-CB-CG	8.52	121.12	112.60
5	L	79	LEU	N-CA-C	-8.52	101.93	111.14
8	g	264	PRO	O-C-N	8.52	133.25	122.85
8	a	436	HIS	CA-C-O	8.52	130.26	120.80
8	c	412	ASP	CA-CB-CG	8.52	121.12	112.60
1	G	311	HIS	CE1-NE2-CD2	-8.52	100.48	109.00
5	L	384	VAL	CA-C-N	8.52	134.85	121.56
5	L	384	VAL	C-N-CA	8.52	134.85	121.56
4	J	420	PRO	N-CA-CB	8.52	111.34	103.08
2	H	653	ARG	NE-CZ-NH2	8.51	126.86	119.20
8	e	68	ASP	CA-CB-CG	8.51	121.11	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	829	SER	N-CA-C	8.50	120.63	111.36
3	K	278	PHE	CA-CB-CG	-8.50	105.30	113.80
2	Q	54	VAL	O-C-N	8.50	130.11	121.87
8	d	396	ASP	CA-CB-CG	8.50	121.10	112.60
8	j	409	ARG	NE-CZ-NH2	-8.49	111.55	119.20
2	D	616	ILE	N-CA-C	-8.49	105.65	113.71
5	L	1573	CYS	N-CA-CB	8.49	122.85	110.20
8	g	302	ASN	CA-CB-CG	8.49	121.09	112.60
8	e	120	ASP	CA-CB-CG	8.48	121.08	112.60
8	k	274	THR	CA-C-O	-8.47	110.43	118.73
9	r	46	ASN	CA-C-N	8.47	128.11	119.56
9	r	46	ASN	C-N-CA	8.47	128.11	119.56
8	l	77	ILE	N-CA-C	-8.47	105.23	113.53
1	M	735	ASP	CA-CB-CG	8.46	121.06	112.60
8	c	279	ASP	CA-CB-CG	8.46	121.06	112.60
2	N	681	LYS	CA-C-N	8.46	130.96	120.22
2	N	681	LYS	C-N-CA	8.46	130.96	120.22
2	N	591	LEU	N-CA-C	-8.45	101.11	112.26
3	K	277	LEU	N-CA-C	8.45	120.41	111.03
8	d	91	ILE	N-CA-C	-8.45	103.54	113.42
1	C	706	HIS	ND1-CE1-NE2	8.45	116.84	108.40
1	M	245	PHE	CA-CB-CG	-8.45	105.36	113.80
1	A	540	LYS	CA-C-O	-8.43	112.75	119.66
1	A	643	HIS	CG-CD2-NE2	8.43	115.63	107.20
8	e	318	ILE	N-CA-C	-8.43	105.04	112.12
8	f	161	TYR	CA-C-O	-8.43	112.69	121.29
3	K	551	ARG	N-CA-C	-8.43	102.01	112.88
1	M	428	ASP	CA-CB-CG	8.43	121.03	112.60
8	e	37	VAL	CB-CA-C	-8.43	102.36	110.70
2	F	269	ASN	CA-CB-CG	8.42	121.02	112.60
8	m	66	LEU	N-CA-CB	8.42	123.64	110.84
2	F	862	VAL	O-C-N	8.42	130.50	121.83
3	K	372	PHE	CA-C-O	-8.41	111.99	120.82
5	L	156	GLN	N-CA-C	-8.41	100.59	113.89
8	m	157	LEU	N-CA-C	-8.40	102.74	113.16
2	B	508	VAL	CA-C-N	8.40	129.30	119.98
2	B	508	VAL	C-N-CA	8.40	129.30	119.98
7	W	615	ARG	CA-C-N	8.40	132.21	120.29
7	W	615	ARG	C-N-CA	8.40	132.21	120.29
3	I	258	SER	CA-C-N	8.39	132.79	120.87
3	I	258	SER	C-N-CA	8.39	132.79	120.87
1	E	731	ASN	CA-CB-CG	8.39	120.99	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	S	59	LYS	N-CA-C	8.38	120.04	111.07
2	N	735	ASN	N-CA-C	-8.38	102.84	113.23
1	C	491	TYR	N-CA-CB	8.37	123.20	110.30
8	d	371	HIS	N-CA-C	-8.37	104.20	114.75
8	l	115	HIS	CG-CD2-NE2	8.37	115.57	107.20
8	c	6	ILE	N-CA-CB	8.36	121.00	111.21
8	i	61	ILE	O-C-N	-8.36	113.88	121.41
2	R	67	ARG	NE-CZ-NH2	8.35	126.72	119.20
8	b	218	LEU	N-CA-C	-8.35	103.61	113.88
8	i	59	HIS	CE1-NE2-CD2	-8.35	100.65	109.00
8	n	139	HIS	CE1-NE2-CD2	-8.35	100.66	109.00
8	n	183	VAL	CA-C-N	8.34	130.51	120.09
8	n	183	VAL	C-N-CA	8.34	130.51	120.09
1	E	492	ASN	CA-CB-CG	-8.33	104.27	112.60
2	H	578	ASP	CA-CB-CG	8.32	120.92	112.60
1	E	435	GLN	OE1-CD-NE2	8.32	130.92	122.60
8	j	93	LEU	N-CA-CB	8.31	124.14	110.17
2	D	696	LEU	CA-C-N	8.31	131.93	120.63
2	D	696	LEU	C-N-CA	8.31	131.93	120.63
2	N	802	ARG	NE-CZ-NH1	-8.31	113.19	121.50
2	F	658	HIS	CE1-NE2-CD2	-8.31	100.69	109.00
1	A	643	HIS	CE1-NE2-CD2	-8.31	100.69	109.00
8	g	102	ASN	CA-CB-CG	8.30	120.90	112.60
2	O	90	ARG	CA-C-N	8.29	131.74	120.54
2	O	90	ARG	C-N-CA	8.29	131.74	120.54
8	b	338	GLN	N-CA-C	8.29	120.40	111.36
8	n	372	ARG	NE-CZ-NH2	-8.29	111.74	119.20
2	F	812	ARG	NE-CZ-NH1	8.29	129.79	121.50
2	N	595	ASN	N-CA-C	8.29	123.76	112.90
1	E	403	TYR	CA-CB-CG	-8.29	98.98	113.90
8	h	184	GLN	CA-C-O	-8.29	110.30	118.34
3	I	20	ASN	CA-CB-CG	8.29	120.89	112.60
2	N	788	GLN	CA-C-O	-8.29	111.68	120.55
1	M	725	HIS	CA-CB-CG	8.28	122.08	113.80
8	m	146	GLY	CA-C-O	8.28	129.41	120.30
1	C	234	VAL	O-C-N	-8.28	114.24	123.18
1	G	429	GLN	OE1-CD-NE2	8.28	130.88	122.60
3	K	556	ILE	CB-CA-C	-8.27	100.80	112.22
5	L	391	PRO	N-CA-CB	8.27	108.81	102.36
8	h	57	ASP	CA-CB-CG	8.27	120.87	112.60
2	N	590	THR	N-CA-C	-8.27	100.83	113.89
8	j	130	ASP	CA-CB-CG	-8.27	104.33	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	590	THR	N-CA-C	-8.27	102.76	113.17
5	L	1554	HIS	O-C-N	8.26	130.62	122.03
8	j	309	ARG	N-CA-C	-8.26	102.22	112.88
8	k	218	LEU	N-CA-C	-8.26	104.34	114.75
3	I	263	MET	N-CA-C	-8.26	103.22	113.38
1	C	621	VAL	O-C-N	-8.26	114.36	123.03
2	O	59	LYS	N-CA-C	8.26	120.28	111.28
5	L	217	PHE	CA-CB-CG	8.26	122.06	113.80
8	a	143	GLY	N-CA-C	-8.25	102.29	112.68
5	L	320	GLU	CA-C-O	8.24	129.29	120.55
6	P	87	HIS	CE1-NE2-CD2	-8.24	100.76	109.00
8	h	313	THR	N-CA-C	-8.24	99.90	113.50
8	e	219	HIS	CA-CB-CG	-8.24	105.56	113.80
2	F	835	PHE	CA-CB-CG	8.24	122.04	113.80
8	f	285	VAL	N-CA-C	-8.23	105.00	112.90
8	h	381	HIS	CG-CD2-NE2	8.23	115.43	107.20
8	g	242	THR	N-CA-C	-8.23	101.33	112.94
4	J	780	ASP	CA-CB-CG	8.22	120.83	112.60
2	D	591	LEU	N-CA-C	-8.22	103.25	113.28
5	L	1466	LEU	O-C-N	8.21	127.65	121.65
8	i	295	ARG	N-CA-C	-8.21	103.41	113.50
4	J	209	ARG	CA-C-O	-8.20	112.25	120.70
1	A	727	SER	CA-C-N	8.20	131.27	120.28
1	A	727	SER	C-N-CA	8.20	131.27	120.28
8	i	160	ARG	N-CA-C	-8.20	104.15	114.56
8	k	49	ASP	CA-CB-CG	8.20	120.80	112.60
8	b	396	ASP	CA-CB-CG	8.19	120.79	112.60
2	D	288	ASP	N-CA-C	-8.19	103.81	113.88
2	N	789	ASP	CA-CB-CG	8.18	120.78	112.60
1	C	733	LEU	N-CA-C	8.18	119.82	111.07
6	P	228	ALA	N-CA-CB	8.18	122.26	110.16
2	N	640	ASP	CA-CB-CG	8.16	120.77	112.60
1	A	831	PHE	CA-CB-CG	-8.16	105.64	113.80
8	i	278	THR	N-CA-C	-8.16	103.42	112.72
2	N	362	THR	O-C-N	-8.16	114.69	123.26
7	X	621	ASP	N-CA-C	8.15	120.24	111.36
8	a	61	ILE	CA-C-N	8.15	128.21	119.90
8	a	61	ILE	C-N-CA	8.15	128.21	119.90
1	E	460	ARG	CA-C-O	8.15	129.34	119.97
5	L	429	VAL	CA-C-N	8.15	132.70	120.31
5	L	429	VAL	C-N-CA	8.15	132.70	120.31
5	L	1592	HIS	CE1-NE2-CD2	-8.14	100.86	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	V	629	MET	CA-C-N	8.14	131.61	120.46
7	V	629	MET	C-N-CA	8.14	131.61	120.46
8	c	172	PHE	CA-C-N	8.14	128.16	119.78
8	c	172	PHE	C-N-CA	8.14	128.16	119.78
1	A	760	CYS	N-CA-C	8.13	120.14	111.28
1	G	511	HIS	CB-CG-ND1	8.13	134.89	122.70
8	k	383	ASN	CA-CB-CG	8.12	120.72	112.60
8	c	313	THR	N-CA-C	-8.12	102.83	114.12
8	h	79	ASN	N-CA-C	-8.12	103.16	113.23
1	G	630	ASN	CA-CB-CG	8.12	120.72	112.60
8	f	48	LYS	O-C-N	8.12	130.43	122.07
3	I	3	HIS	CE1-NE2-CD2	-8.11	100.89	109.00
8	e	119	PHE	CA-CB-CG	-8.11	105.69	113.80
8	c	77	ILE	N-CA-C	-8.10	106.02	113.71
8	m	315	HIS	ND1-CE1-NE2	8.10	116.50	108.40
1	G	757	PHE	CA-CB-CG	8.09	121.89	113.80
8	m	323	ILE	N-CA-CB	8.09	120.68	111.21
1	A	474	ILE	N-CA-C	-8.08	100.61	111.44
3	I	111	PHE	CA-CB-CG	-8.08	105.72	113.80
8	c	167	GLN	OE1-CD-NE2	8.08	130.68	122.60
8	c	125	GLU	N-CA-C	-8.08	103.25	113.43
1	M	612	LEU	N-CA-C	-8.08	103.45	113.38
1	E	319	SER	N-CA-C	-8.07	98.06	109.69
7	U	651	GLU	CA-C-N	8.07	131.44	120.54
7	U	651	GLU	C-N-CA	8.07	131.44	120.54
7	W	636	GLN	N-CA-CB	8.07	121.99	110.12
5	L	495	PHE	CA-CB-CG	-8.07	105.73	113.80
2	N	422	ALA	CA-C-O	8.07	129.32	119.31
8	l	305	VAL	N-CA-C	-8.07	96.50	108.12
1	M	236	PRO	N-CA-CB	8.06	110.45	103.36
2	B	514	SER	CA-C-O	-8.06	110.83	118.73
8	i	427	ILE	O-C-N	8.06	129.69	121.87
1	G	564	ASN	N-CA-C	-8.06	101.93	112.41
8	k	140	SER	CA-C-N	8.06	132.99	121.55
8	k	140	SER	C-N-CA	8.06	132.99	121.55
1	E	234	VAL	CA-C-O	-8.06	111.25	120.67
4	J	935	ARG	NE-CZ-NH2	8.06	126.45	119.20
5	L	1433	ASN	CA-C-O	-8.06	109.12	120.16
8	h	218	LEU	N-CA-C	-8.05	102.47	113.18
1	G	252	ASP	CA-CB-CG	8.05	120.65	112.60
6	P	31	PHE	N-CA-C	-8.05	100.98	108.22
8	f	98	GLY	CA-C-N	8.04	133.06	121.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	f	98	GLY	C-N-CA	8.04	133.06	121.96
1	G	491	TYR	O-C-N	8.04	130.35	122.07
8	e	294	MET	N-CA-C	-8.04	101.49	112.03
8	n	334	HIS	CG-CD2-NE2	8.04	115.24	107.20
2	D	705	ILE	N-CA-CB	8.04	120.85	110.57
8	j	36	ILE	N-CA-C	-8.03	94.51	107.28
1	E	830	ASN	OD1-CG-ND2	8.03	130.63	122.60
8	e	160	ARG	N-CA-C	-8.03	103.62	113.41
1	A	363	PHE	N-CA-C	-8.03	101.97	113.21
8	i	59	HIS	CG-CD2-NE2	8.03	115.23	107.20
7	V	601	ASN	CA-CB-CG	8.02	120.62	112.60
8	d	92	TYR	N-CA-CB	8.02	125.65	111.13
8	d	349	ILE	N-CA-CB	8.02	117.54	110.08
1	E	607	LEU	N-CA-CB	8.02	122.64	110.45
2	R	32	PHE	CA-CB-CG	-8.02	105.78	113.80
8	e	200	ASP	CA-CB-CG	8.02	120.62	112.60
2	D	405	THR	CA-CB-OG1	8.01	121.62	109.60
2	S	55	THR	CA-C-N	8.01	131.02	120.28
2	S	55	THR	C-N-CA	8.01	131.02	120.28
8	c	371	HIS	CE1-NE2-CD2	-8.01	100.99	109.00
6	P	242	LEU	CB-CA-C	8.01	119.36	110.15
4	J	964	HIS	ND1-CE1-NE2	8.01	116.41	108.40
8	c	358	VAL	N-CA-C	-8.01	96.95	108.48
8	c	408	PHE	N-CA-C	-8.00	102.48	114.64
9	q	54	ILE	N-CA-C	8.00	118.78	110.62
2	F	416	HIS	CA-CB-CG	7.99	121.79	113.80
8	l	120	ASP	N-CA-C	-7.99	100.85	110.44
8	f	24	GLN	OE1-CD-NE2	7.99	130.59	122.60
8	j	135	PHE	CA-CB-CG	-7.99	105.81	113.80
7	W	633	PHE	N-CA-C	7.98	119.61	111.07
8	e	219	HIS	CG-CD2-NE2	7.98	115.18	107.20
8	j	175	GLN	OE1-CD-NE2	7.98	130.58	122.60
1	E	399	ILE	N-CA-C	-7.98	96.23	107.80
1	G	464	HIS	ND1-CE1-NE2	7.98	116.38	108.40
1	G	431	TYR	CB-CG-CD2	-7.97	108.84	120.80
8	f	278	THR	CA-C-N	7.97	133.14	122.06
8	f	278	THR	C-N-CA	7.97	133.14	122.06
8	f	383	ASN	OD1-CG-ND2	7.97	130.57	122.60
4	J	778	SER	N-CA-C	-7.97	102.60	112.88
7	V	655	SER	N-CA-C	7.97	119.96	111.28
2	N	627	VAL	N-CA-CB	7.96	121.15	112.07
2	S	105	ARG	NE-CZ-NH2	-7.96	112.03	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	Q	18	CYS	N-CA-C	7.96	119.96	111.28
8	a	413	ILE	N-CA-C	-7.96	95.92	107.78
2	H	435	ASP	CA-CB-CG	7.96	120.56	112.60
2	F	658	HIS	ND1-CE1-NE2	7.96	116.36	108.40
1	A	740	ASN	CA-C-N	7.96	128.03	119.28
1	A	740	ASN	C-N-CA	7.96	128.03	119.28
9	r	27	THR	CA-C-O	7.95	129.66	120.75
1	A	288	ASN	CA-CB-CG	7.95	120.55	112.60
2	D	871	SER	N-CA-C	-7.95	102.63	112.88
1	E	505	GLU	N-CA-C	-7.95	103.54	113.55
6	P	100	GLU	N-CA-C	-7.95	104.47	114.56
1	A	245	PHE	CA-CB-CG	-7.94	105.86	113.80
1	G	570	ASP	CA-CB-CG	-7.94	104.66	112.60
8	m	31	ILE	CA-C-N	7.94	131.31	120.67
8	m	31	ILE	C-N-CA	7.94	131.31	120.67
2	D	342	HIS	ND1-CE1-NE2	7.94	116.34	108.40
8	e	299	GLN	CA-C-O	-7.94	113.30	120.13
3	I	353	GLN	N-CA-C	7.93	121.02	111.82
8	b	57	ASP	CA-CB-CG	7.93	120.53	112.60
8	c	29	HIS	ND1-CE1-NE2	7.93	116.33	108.40
8	d	59	HIS	CE1-NE2-CD2	-7.93	101.07	109.00
8	a	87	ASN	O-C-N	7.92	126.02	121.27
7	V	661	ARG	CA-C-N	7.92	130.90	120.28
7	V	661	ARG	C-N-CA	7.92	130.90	120.28
2	D	776	ALA	CA-C-N	7.92	133.86	121.35
2	D	776	ALA	C-N-CA	7.92	133.86	121.35
1	E	662	LYS	CA-C-O	-7.92	112.16	120.55
4	J	418	GLU	CA-C-N	7.92	125.23	120.24
4	J	418	GLU	C-N-CA	7.92	125.23	120.24
8	f	207	ASN	N-CA-C	-7.92	102.53	112.90
3	K	563	PHE	CA-CB-CG	7.91	121.71	113.80
1	A	508	LEU	CA-C-O	7.91	129.07	119.97
2	H	750	HIS	N-CA-C	7.91	121.42	111.69
3	K	503	HIS	CE1-NE2-CD2	-7.91	101.09	109.00
8	g	59	HIS	CE1-NE2-CD2	-7.91	101.09	109.00
8	k	227	GLN	N-CA-C	-7.91	103.19	112.92
8	l	95	GLU	N-CA-CB	7.91	123.85	110.49
2	H	442	TYR	N-CA-C	-7.91	102.70	113.30
8	k	297	LEU	CA-C-N	7.90	132.32	120.31
8	k	297	LEU	C-N-CA	7.90	132.32	120.31
8	n	433	ASP	N-CA-C	7.90	120.98	111.82
2	H	591	LEU	N-CA-C	-7.89	102.96	112.59

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	c	147	SER	CA-C-N	7.89	128.55	119.94
8	c	147	SER	C-N-CA	7.89	128.55	119.94
3	K	601	GLY	CA-C-O	-7.89	114.37	119.65
3	I	481	LEU	N-CA-C	7.88	122.66	112.89
1	C	828	ASP	CA-CB-CG	-7.88	104.72	112.60
8	n	418	PHE	CA-CB-CG	-7.88	105.92	113.80
8	e	26	CYS	CA-C-N	7.88	132.28	120.31
8	e	26	CYS	C-N-CA	7.88	132.28	120.31
3	I	651	ASN	OD1-CG-ND2	7.87	130.47	122.60
6	P	148	THR	N-CA-C	-7.86	102.69	114.64
2	H	259	GLY	O-C-N	7.86	132.07	122.32
4	J	1009	ALA	CA-C-N	7.85	130.80	120.28
4	J	1009	ALA	C-N-CA	7.85	130.80	120.28
8	b	225	PHE	CA-CB-CG	7.85	121.65	113.80
8	e	282	VAL	N-CA-C	-7.85	105.48	113.10
8	j	312	GLN	N-CA-C	-7.85	101.87	112.94
8	g	141	ILE	N-CA-C	-7.85	103.57	113.22
8	m	51	PHE	CA-CB-CG	-7.85	105.95	113.80
2	D	511	SER	N-CA-CB	7.85	121.77	110.16
8	l	21	PHE	O-C-N	7.85	131.09	122.15
8	a	127	ASP	N-CA-C	-7.84	102.79	113.30
2	T	35	ALA	CA-C-N	7.84	130.44	120.56
2	T	35	ALA	C-N-CA	7.84	130.44	120.56
8	e	63	ARG	NE-CZ-NH2	-7.84	112.14	119.20
1	A	661	ASN	OD1-CG-ND2	7.84	130.44	122.60
2	H	613	ASN	CA-C-N	7.83	128.30	119.92
2	H	613	ASN	C-N-CA	7.83	128.30	119.92
8	m	156	ARG	N-CA-C	7.83	122.60	112.89
1	G	403	TYR	O-C-N	-7.83	116.32	122.03
1	G	333	THR	N-CA-CB	7.82	121.74	110.16
9	p	59	ARG	CA-C-N	7.82	131.08	120.44
9	p	59	ARG	C-N-CA	7.82	131.08	120.44
2	S	113	SER	N-CA-C	-7.82	104.22	114.31
8	i	353	PRO	CA-C-O	-7.82	112.80	121.32
8	a	401	ARG	N-CA-CB	7.81	122.39	110.28
3	I	85	TYR	CA-CB-CG	-7.81	99.84	113.90
8	b	332	GLN	N-CA-C	-7.81	102.26	112.41
1	A	240	ARG	N-CA-C	7.81	119.79	111.28
2	B	388	GLN	CA-C-N	7.81	127.41	119.92
2	B	388	GLN	C-N-CA	7.81	127.41	119.92
2	B	538	PHE	CA-CB-CG	7.80	121.60	113.80
8	e	56	ASP	CA-CB-CG	7.80	120.41	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	429	LEU	CA-C-O	-7.80	112.61	120.80
8	c	184	GLN	CA-C-O	-7.80	110.77	118.34
4	J	834	ASP	CA-C-N	7.79	133.08	120.30
4	J	834	ASP	C-N-CA	7.79	133.08	120.30
8	j	292	ASP	CA-CB-CG	7.79	120.39	112.60
8	m	268	PHE	CA-CB-CG	-7.79	106.01	113.80
1	E	384	ALA	CA-C-N	7.79	127.07	118.97
1	E	384	ALA	C-N-CA	7.79	127.07	118.97
2	H	365	ARG	NE-CZ-NH2	-7.79	112.19	119.20
2	N	575	HIS	CA-CB-CG	-7.79	106.01	113.80
5	L	590	HIS	CA-CB-CG	7.79	121.59	113.80
8	b	170	SER	N-CA-CB	7.79	121.82	110.06
8	m	227	GLN	N-CA-C	-7.79	101.59	113.89
2	D	584	LEU	N-CA-C	-7.79	103.78	113.28
1	C	400	ASN	CA-CB-CG	-7.78	104.82	112.60
7	W	654	VAL	N-CA-CB	7.78	121.12	110.54
3	K	401	HIS	ND1-CE1-NE2	7.78	116.18	108.40
6	P	3	ASP	CA-CB-CG	7.78	120.38	112.60
2	H	553	ASN	CA-C-N	7.78	131.01	120.44
2	H	553	ASN	C-N-CA	7.78	131.01	120.44
3	I	325	PHE	CA-CB-CG	7.78	121.58	113.80
8	n	130	ASP	N-CA-C	-7.78	103.92	113.41
8	j	297	LEU	CA-C-O	7.77	128.03	119.24
3	K	451	ALA	CA-C-O	7.77	127.24	119.08
8	j	50	VAL	N-CA-C	-7.77	105.28	112.43
3	I	82	HIS	CE1-NE2-CD2	-7.77	101.23	109.00
8	l	407	GLN	N-CA-C	-7.77	103.37	112.92
8	l	115	HIS	CE1-NE2-CD2	-7.76	101.23	109.00
8	m	188	SER	CA-C-N	7.76	132.11	120.31
8	m	188	SER	C-N-CA	7.76	132.11	120.31
4	J	983	THR	CA-C-O	7.76	128.94	119.31
2	N	877	PHE	CA-CB-CG	7.76	121.56	113.80
9	p	30	ASP	CA-CB-CG	7.76	120.36	112.60
1	E	575	GLU	N-CA-C	-7.76	97.98	110.32
8	m	391	THR	CA-C-O	-7.76	111.63	120.24
1	A	615	PHE	CA-CB-CG	7.75	121.56	113.80
3	K	591	SER	N-CA-C	-7.75	103.80	113.18
8	b	305	VAL	N-CA-C	-7.75	96.85	108.17
8	f	99	GLY	O-C-N	7.75	129.48	122.81
3	K	294	SER	N-CA-C	7.75	121.47	110.23
8	l	428	VAL	N-CA-C	7.75	118.52	110.62
2	B	460	HIS	CB-CG-ND1	7.75	134.32	122.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	311	HIS	CA-CB-CG	7.75	121.55	113.80
5	L	342	GLN	N-CA-C	7.75	118.51	109.60
5	L	1495	ILE	N-CA-CB	7.75	119.16	110.72
1	C	500	ASP	CA-CB-CG	-7.74	104.86	112.60
1	G	852	HIS	CA-CB-CG	7.74	121.54	113.80
8	c	369	SER	CA-C-O	7.74	128.91	118.38
8	m	315	HIS	N-CA-C	-7.74	97.55	109.24
2	D	507	ALA	CA-C-N	7.74	130.31	120.56
2	D	507	ALA	C-N-CA	7.74	130.31	120.56
8	j	56	ASP	O-C-N	7.74	130.97	121.84
2	B	572	PHE	CA-CB-CG	7.74	121.54	113.80
1	C	706	HIS	CE1-NE2-CD2	-7.74	101.26	109.00
2	N	692	GLY	N-CA-C	-7.74	104.10	115.63
8	b	130	ASP	N-CA-C	-7.74	102.82	112.72
8	a	94	SER	CA-C-N	7.74	136.31	121.54
8	a	94	SER	C-N-CA	7.74	136.31	121.54
8	b	381	HIS	CB-CG-CD2	-7.73	121.15	131.20
8	k	80	SER	CA-C-N	7.73	127.37	119.56
8	k	80	SER	C-N-CA	7.73	127.37	119.56
2	F	523	THR	N-CA-C	-7.73	97.64	109.85
3	K	583	ASN	CA-CB-CG	7.73	120.33	112.60
8	n	115	HIS	CA-CB-CG	7.73	121.53	113.80
4	J	791	LEU	CA-C-N	7.73	132.42	120.75
4	J	791	LEU	C-N-CA	7.73	132.42	120.75
6	P	350	SER	CA-C-N	7.72	133.48	122.05
6	P	350	SER	C-N-CA	7.72	133.48	122.05
1	A	432	THR	N-CA-C	-7.72	96.31	108.90
8	e	206	ASP	CA-CB-CG	7.72	120.32	112.60
8	b	349	ILE	N-CA-CB	7.72	117.94	109.99
2	H	442	TYR	CA-C-N	7.72	133.78	122.82
2	H	442	TYR	C-N-CA	7.72	133.78	122.82
8	b	264	PRO	CA-C-N	7.72	133.32	122.36
8	b	264	PRO	C-N-CA	7.72	133.32	122.36
2	B	658	HIS	CG-CD2-NE2	7.71	114.91	107.20
9	s	52	SER	CA-C-O	-7.71	112.72	120.82
8	n	367	LEU	CA-C-O	7.71	125.82	118.34
1	M	856	ASN	CA-CB-CG	7.71	120.31	112.60
3	I	351	LEU	N-CA-C	-7.71	103.72	113.43
2	N	316	PHE	N-CA-C	-7.70	94.39	110.80
8	m	103	ASN	N-CA-C	-7.70	94.40	110.80
8	h	21	PHE	CA-CB-CG	7.70	121.50	113.80
1	E	511	HIS	CG-CD2-NE2	7.69	114.89	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	n	436	HIS	CA-CB-CG	7.69	121.49	113.80
5	L	359	ASN	CA-CB-CG	-7.69	104.91	112.60
1	M	227	VAL	N-CA-C	-7.69	97.38	108.53
2	N	882	ASN	CA-CB-CG	7.69	120.29	112.60
5	L	563	PHE	N-CA-C	-7.68	97.73	109.95
8	i	417	ASN	CA-CB-CG	7.68	120.28	112.60
8	e	105	ALA	CA-C-N	7.67	133.31	120.88
8	e	105	ALA	C-N-CA	7.67	133.31	120.88
9	t	17	VAL	O-C-N	7.67	129.31	121.87
4	J	789	HIS	CE1-NE2-CD2	-7.67	101.33	109.00
9	s	9	SER	CA-C-N	7.67	130.41	120.44
9	s	9	SER	C-N-CA	7.67	130.41	120.44
8	i	77	ILE	N-CA-C	-7.67	106.43	113.71
8	d	228	ILE	CB-CA-C	-7.66	103.43	110.63
8	e	131	SER	CA-C-O	7.66	128.82	120.32
8	l	96	HIS	CA-CB-CG	7.66	121.46	113.80
5	L	564	ARG	NE-CZ-NH2	7.66	126.09	119.20
8	m	314	ASN	N-CA-C	-7.66	103.00	112.88
8	b	56	ASP	CA-CB-CG	7.66	120.25	112.60
8	a	59	HIS	CE1-NE2-CD2	-7.65	101.35	109.00
8	k	413	ILE	N-CA-C	-7.65	97.00	108.17
1	E	739	THR	CA-CB-OG1	7.65	121.07	109.60
8	b	63	ARG	NE-CZ-NH2	7.65	126.08	119.20
8	m	424	SER	N-CA-C	7.65	120.69	111.82
8	m	178	MET	N-CA-C	-7.64	101.39	110.41
3	I	268	ILE	N-CA-C	-7.64	99.56	107.89
2	O	50	ASP	CA-C-N	7.64	130.84	120.38
2	O	50	ASP	C-N-CA	7.64	130.84	120.38
8	k	184	GLN	CA-C-O	-7.64	109.70	120.16
8	n	296	ARG	N-CA-C	-7.64	103.50	114.12
2	H	557	HIS	CE1-NE2-CD2	-7.63	101.37	109.00
8	e	130	ASP	N-CA-C	-7.63	103.58	113.12
8	l	138	CYS	CA-C-O	-7.63	113.10	122.64
8	m	21	PHE	CA-CB-CG	7.63	121.43	113.80
8	f	69	LEU	N-CA-C	-7.63	103.08	113.30
1	C	225	ILE	N-CA-C	-7.62	105.12	111.91
3	I	267	TYR	N-CA-C	-7.62	102.19	112.94
8	m	292	ASP	CA-CB-CG	7.62	120.22	112.60
8	c	251	ASN	CA-CB-CG	7.62	120.22	112.60
8	f	396	ASP	CA-CB-CG	7.62	120.22	112.60
3	I	563	PHE	CA-CB-CG	7.62	121.42	113.80
8	b	49	ASP	CA-CB-CG	7.62	120.22	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	h	408	PHE	N-CA-C	-7.62	103.35	114.39
8	b	234	THR	N-CA-C	7.62	119.66	111.36
8	i	286	ARG	NE-CZ-NH2	-7.61	112.35	119.20
1	A	523	GLN	N-CA-C	-7.61	98.30	109.11
8	h	309	ARG	N-CA-C	-7.61	103.10	113.30
2	B	457	ARG	NE-CZ-NH2	-7.61	112.35	119.20
2	H	495	VAL	CA-C-N	7.61	133.63	122.82
2	H	495	VAL	C-N-CA	7.61	133.63	122.82
9	s	13	GLU	N-CA-C	7.61	119.66	111.36
1	C	658	TRP	CB-CG-CD2	-7.61	116.15	126.80
5	L	517	ASN	N-CA-C	-7.61	103.80	113.23
8	m	29	HIS	CG-CD2-NE2	7.61	114.81	107.20
9	o	51	SER	N-CA-CB	7.61	121.31	110.12
3	I	382	THR	CA-CB-OG1	7.61	121.01	109.60
8	f	11	GLY	CA-C-O	-7.61	115.57	122.57
8	b	179	SER	N-CA-C	-7.61	102.94	112.90
2	F	791	LEU	O-C-N	7.60	131.37	122.25
4	J	901	LEU	N-CA-C	-7.60	101.89	112.45
3	K	317	GLN	N-CA-C	-7.59	97.25	109.40
1	A	218	GLU	N-CA-C	7.59	120.63	111.82
1	G	827	PHE	N-CA-CB	7.59	121.40	110.16
8	i	197	GLN	CG-CD-NE2	-7.59	105.01	116.40
1	A	536	GLU	CA-C-N	7.59	134.42	121.14
1	A	536	GLU	C-N-CA	7.59	134.42	121.14
1	E	211	SER	CA-C-N	7.59	131.85	120.31
1	E	211	SER	C-N-CA	7.59	131.85	120.31
8	m	121	ILE	N-CA-C	-7.59	106.50	113.71
5	L	1492	ASN	CA-CB-CG	7.58	120.18	112.60
8	a	229	ASN	CA-CB-CG	-7.58	105.02	112.60
8	j	90	ASN	CA-CB-CG	7.58	120.18	112.60
8	h	425	ARG	O-C-N	-7.58	113.51	122.15
4	J	917	ASP	CA-CB-CG	7.58	120.18	112.60
2	N	623	ARG	NE-CZ-NH1	-7.58	113.92	121.50
2	T	52	PHE	N-CA-C	7.57	119.53	111.28
9	r	27	THR	O-C-N	-7.57	115.53	123.56
1	M	679	PHE	CA-CB-CG	-7.57	106.23	113.80
8	k	430	GLN	N-CA-CB	7.57	121.48	110.20
2	F	270	SER	N-CA-C	-7.57	97.06	109.40
2	B	586	ARG	CA-C-N	7.57	127.62	119.90
2	B	586	ARG	C-N-CA	7.57	127.62	119.90
1	C	360	ASP	CA-CB-CG	7.57	120.17	112.60
2	R	28	VAL	N-CA-C	-7.56	104.98	112.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	350	PRO	N-CA-CB	7.56	107.88	102.81
8	m	360	LEU	N-CA-C	-7.56	97.51	109.23
1	G	539	LYS	N-CA-C	-7.56	104.10	112.72
8	c	240	THR	N-CA-C	-7.56	96.09	108.41
8	c	405	LEU	N-CA-C	-7.56	101.21	111.87
1	G	672	ALA	CA-C-O	7.55	129.39	121.38
2	N	611	PHE	N-CA-C	-7.55	104.21	113.50
2	B	317	GLY	N-CA-C	-7.55	103.10	112.77
8	e	371	HIS	CG-CD2-NE2	7.55	114.75	107.20
8	k	311	ARG	CA-C-N	7.55	134.20	122.49
8	k	311	ARG	C-N-CA	7.55	134.20	122.49
8	m	149	LEU	CA-C-O	-7.55	110.88	119.79
8	a	159	ASP	N-CA-C	-7.55	105.24	114.75
2	N	550	LYS	CA-C-N	-7.55	110.53	122.08
2	N	550	LYS	C-N-CA	-7.55	110.53	122.08
8	h	371	HIS	CE1-NE2-CD2	-7.54	101.45	109.00
8	j	194	ARG	NE-CZ-NH2	-7.54	112.41	119.20
9	s	53	VAL	N-CA-C	7.54	117.66	110.42
2	B	802	ARG	NE-CZ-NH1	-7.54	113.96	121.50
4	J	919	ASP	CA-CB-CG	7.54	120.14	112.60
2	N	669	ALA	N-CA-CB	7.54	120.92	109.91
8	e	341	ARG	NE-CZ-NH1	-7.54	113.96	121.50
8	i	315	HIS	CA-CB-CG	-7.53	106.27	113.80
2	B	261	ASP	CA-CB-CG	7.53	120.13	112.60
8	b	144	GLY	N-CA-C	-7.53	102.51	115.61
2	H	687	ALA	N-CA-C	-7.53	103.09	111.82
3	K	562	HIS	CB-CG-CD2	7.52	140.98	131.20
3	K	302	ASN	CA-C-N	7.52	130.36	120.28
3	K	302	ASN	C-N-CA	7.52	130.36	120.28
5	L	507	LYS	O-C-N	7.52	130.09	122.12
2	T	28	VAL	CB-CA-C	-7.52	102.45	112.46
2	T	78	HIS	CE1-NE2-CD2	-7.52	101.48	109.00
8	j	299	GLN	CA-C-O	-7.52	113.87	120.19
8	m	343	ARG	NE-CZ-NH2	-7.52	112.43	119.20
2	D	447	VAL	O-C-N	-7.52	115.23	123.20
4	J	940	GLU	CA-C-N	7.52	132.09	122.16
4	J	940	GLU	C-N-CA	7.52	132.09	122.16
8	l	315	HIS	CE1-NE2-CD2	-7.52	101.48	109.00
2	B	852	PHE	N-CA-C	-7.51	103.17	111.36
2	N	476	MET	CA-C-O	7.51	128.61	119.97
2	N	510	LYS	CA-C-N	7.51	130.34	120.28
2	N	510	LYS	C-N-CA	7.51	130.34	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	688	PHE	N-CA-CB	7.51	120.90	110.01
8	k	197	GLN	CA-C-N	7.51	133.93	122.37
8	k	197	GLN	C-N-CA	7.51	133.93	122.37
2	D	802	ARG	NE-CZ-NH2	7.51	125.96	119.20
1	G	649	HIS	CE1-NE2-CD2	-7.51	101.49	109.00
8	e	251	ASN	CA-C-N	7.51	133.20	122.09
8	e	251	ASN	C-N-CA	7.51	133.20	122.09
2	B	663	PHE	N-CA-C	-7.50	102.46	111.69
2	H	471	PRO	N-CA-CB	7.50	109.88	103.35
1	G	656	ASN	CA-C-O	-7.50	110.01	119.31
8	g	56	ASP	CA-CB-CG	7.50	120.10	112.60
8	h	123	ASP	N-CA-C	-7.50	104.15	113.38
7	U	617	ALA	CA-C-N	7.50	130.33	120.28
7	U	617	ALA	C-N-CA	7.50	130.33	120.28
2	F	686	ASN	N-CA-CB	7.50	121.90	110.28
8	f	84	ASN	CA-CB-CG	7.50	120.10	112.60
8	k	153	LEU	CA-C-O	7.50	128.71	119.11
2	B	252	ASP	CA-CB-CG	7.50	120.10	112.60
4	J	300	HIS	CA-CB-CG	7.50	121.30	113.80
8	c	362	ARG	N-CA-C	-7.50	98.00	109.85
8	g	427	ILE	CA-C-O	7.50	128.80	120.85
2	B	494	GLN	CA-C-N	7.49	132.56	121.77
2	B	494	GLN	C-N-CA	7.49	132.56	121.77
1	G	520	LEU	N-CA-C	-7.49	103.53	114.39
1	G	733	LEU	CA-C-O	-7.49	112.98	120.70
1	A	629	ILE	O-C-N	-7.49	115.19	122.98
1	M	251	LEU	N-CA-C	-7.49	106.09	114.62
8	h	423	ASN	CA-CB-CG	7.49	120.08	112.60
8	b	399	ARG	NE-CZ-NH2	7.48	125.94	119.20
8	i	332	GLN	OE1-CD-NE2	7.48	130.08	122.60
2	N	273	CYS	CA-C-O	7.47	128.54	120.32
5	L	1395	HIS	ND1-CE1-NE2	7.47	115.87	108.40
2	O	9	PRO	N-CA-CB	7.47	111.22	103.00
8	h	96	HIS	CA-C-N	7.47	129.67	122.27
8	h	96	HIS	C-N-CA	7.47	129.67	122.27
8	l	287	LYS	N-CA-CB	7.47	123.11	110.49
8	e	49	ASP	CA-CB-CG	7.47	120.07	112.60
9	t	46	ASN	CA-CB-CG	7.47	120.07	112.60
8	c	417	ASN	CA-CB-CG	7.47	120.07	112.60
8	a	408	PHE	N-CA-C	-7.46	104.02	113.72
3	K	331	ARG	O-C-N	-7.46	113.10	122.27
1	A	473	GLU	N-CA-C	-7.45	104.03	113.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	i	246	PRO	N-CA-CB	7.45	109.26	103.30
2	Q	42	ASN	CA-CB-CG	7.45	120.05	112.60
3	I	461	PRO	N-CA-C	7.45	127.82	112.47
3	I	207	GLN	N-CA-CB	7.45	121.18	109.71
2	N	405	THR	CA-C-N	7.45	128.94	120.53
2	N	405	THR	C-N-CA	7.45	128.94	120.53
2	T	89	ASN	CA-CB-CG	7.44	120.04	112.60
8	h	228	ILE	CA-C-O	-7.44	112.91	119.38
9	p	46	ASN	CA-C-N	7.44	126.71	118.97
9	p	46	ASN	C-N-CA	7.44	126.71	118.97
8	i	402	GLU	N-CA-C	7.44	119.61	110.91
7	V	613	ASP	CA-CB-CG	7.44	120.04	112.60
8	k	19	PHE	CA-CB-CG	7.44	121.24	113.80
4	J	724	LEU	CA-C-O	-7.43	112.55	121.40
8	d	286	ARG	CA-C-N	7.43	135.74	121.54
8	d	286	ARG	C-N-CA	7.43	135.74	121.54
2	F	764	ASP	CA-CB-CG	7.43	120.03	112.60
8	c	250	ASN	CA-CB-CG	-7.43	105.17	112.60
7	U	642	MET	N-CA-C	7.43	119.02	111.07
7	X	619	HIS	CA-CB-CG	7.43	121.23	113.80
8	d	404	PHE	CA-CB-CG	-7.43	106.37	113.80
8	m	135	PHE	CA-CB-CG	-7.42	106.38	113.80
2	B	310	ARG	CA-C-N	7.42	132.92	122.46
2	B	310	ARG	C-N-CA	7.42	132.92	122.46
7	X	646	ARG	N-CA-C	7.42	119.37	111.28
8	a	214	ALA	N-CA-C	7.42	121.59	112.54
5	L	1458	ASN	CA-CB-CG	-7.42	105.18	112.60
2	F	497	HIS	CA-CB-CG	-7.42	106.38	113.80
3	K	44	ARG	NE-CZ-NH2	-7.42	112.52	119.20
6	P	101	HIS	O-C-N	-7.42	111.25	121.12
8	n	432	ILE	O-C-N	7.42	129.61	121.90
3	I	35	HIS	CA-C-O	-7.42	112.62	120.70
3	K	125	SER	CA-C-O	7.42	128.50	119.38
6	P	164	PRO	N-CA-CB	7.42	109.52	103.36
2	N	780	GLN	CB-CG-CD	-7.42	100.00	112.60
2	N	701	HIS	CG-CD2-NE2	7.41	114.61	107.20
8	j	99	GLY	CA-C-N	7.41	130.53	120.38
8	j	99	GLY	C-N-CA	7.41	130.53	120.38
8	n	68	ASP	CA-CB-CG	7.41	120.01	112.60
6	P	101	HIS	CB-CG-CD2	-7.41	121.57	131.20
5	L	42	LEU	CA-C-N	7.41	130.07	120.44
5	L	42	LEU	C-N-CA	7.41	130.07	120.44

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	a	106	SER	O-C-N	-7.41	114.03	122.03
8	c	318	ILE	N-CA-C	-7.41	105.90	112.12
8	g	248	TYR	N-CA-C	-7.41	95.03	110.80
8	d	227	GLN	N-CA-C	-7.40	102.50	112.94
8	b	115	HIS	CA-CB-CG	7.40	121.20	113.80
9	p	14	THR	CA-C-N	7.40	130.94	120.28
9	p	14	THR	C-N-CA	7.40	130.94	120.28
8	i	327	GLU	N-CA-CB	7.40	121.00	109.83
8	k	40	PHE	CA-C-O	7.40	128.81	119.12
8	m	204	VAL	N-CA-CB	7.40	119.44	111.00
2	D	415	GLN	CA-C-O	7.40	128.52	119.79
8	d	270	MET	N-CA-CB	7.40	121.23	110.06
2	H	457	ARG	NE-CZ-NH1	7.39	128.89	121.50
2	F	581	LYS	CA-C-O	-7.39	111.49	118.73
3	K	401	HIS	CE1-NE2-CD2	-7.39	101.61	109.00
8	a	86	TYR	CA-C-N	7.39	130.39	122.26
8	a	86	TYR	C-N-CA	7.39	130.39	122.26
8	e	304	MET	N-CA-C	-7.39	103.58	112.59
1	G	350	PHE	N-CA-C	-7.38	99.88	110.59
3	I	588	LEU	CA-C-O	-7.38	111.08	119.79
8	h	5	ILE	CA-C-O	7.38	129.14	120.72
1	E	841	LYS	CA-C-O	-7.38	111.48	119.97
3	K	170	SER	N-CA-CB	7.38	121.72	110.28
1	G	642	ARG	NE-CZ-NH1	7.38	128.88	121.50
2	H	372	ASP	CA-CB-CG	7.38	119.98	112.60
2	N	511	SER	N-CA-C	-7.38	103.24	111.28
8	g	243	LEU	CA-C-O	7.38	126.55	118.65
2	F	862	VAL	CA-C-O	-7.38	113.03	120.85
2	N	493	HIS	CA-CB-CG	-7.38	106.42	113.80
6	P	184	ASP	N-CA-CB	7.37	121.71	110.28
9	q	58	ARG	NE-CZ-NH2	-7.37	112.56	119.20
2	H	528	ALA	CA-C-O	7.37	127.95	119.18
8	l	79	ASN	CA-C-N	7.37	131.88	120.68
8	l	79	ASN	C-N-CA	7.37	131.88	120.68
4	J	911	GLN	OE1-CD-NE2	7.37	129.97	122.60
5	L	472	ARG	N-CA-C	7.37	119.31	111.28
8	e	285	VAL	O-C-N	7.37	129.45	122.23
8	l	42	THR	N-CA-C	-7.37	104.27	113.55
8	l	173	PRO	N-CA-C	-7.37	100.37	111.57
2	D	314	ARG	NE-CZ-NH1	-7.36	114.14	121.50
8	d	263	THR	CA-CB-CG2	7.36	123.02	110.50
3	K	493	HIS	CA-CB-CG	-7.36	106.44	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	21	PHE	CA-C-O	-7.36	112.62	120.42
4	J	242	TRP	CE2-CD2-CG	-7.36	98.37	107.20
4	J	789	HIS	CG-CD2-NE2	7.36	114.56	107.20
2	N	452	VAL	N-CA-C	-7.36	97.84	109.17
1	C	687	ASN	CA-CB-CG	7.36	119.96	112.60
2	R	50	ASP	CA-C-N	7.36	130.14	120.28
2	R	50	ASP	C-N-CA	7.36	130.14	120.28
2	D	400	HIS	CE1-NE2-CD2	-7.36	101.64	109.00
2	N	851	HIS	ND1-CE1-NE2	7.36	115.75	108.40
2	H	254	LEU	CB-CA-C	-7.35	98.35	110.85
8	e	163	LYS	CA-C-O	-7.35	113.55	121.20
6	P	56	ASP	CA-CB-CG	7.35	119.95	112.60
1	A	289	HIS	N-CA-C	-7.35	102.97	112.23
2	B	640	ASP	CA-CB-CG	7.35	119.95	112.60
5	L	1423	GLY	CA-C-O	-7.35	115.81	122.57
5	L	1359	LEU	CA-C-N	7.35	126.98	119.56
5	L	1359	LEU	C-N-CA	7.35	126.98	119.56
1	C	544	ASP	CA-CB-CG	7.35	119.95	112.60
3	K	467	THR	CA-C-N	7.34	127.02	119.82
3	K	467	THR	C-N-CA	7.34	127.02	119.82
8	c	414	PHE	CA-CB-CG	-7.34	106.46	113.80
8	e	78	LEU	N-CA-C	-7.34	104.17	113.72
8	i	162	PRO	CA-C-N	7.34	130.72	120.29
8	i	162	PRO	C-N-CA	7.34	130.72	120.29
3	I	130	HIS	CG-CD2-NE2	7.34	114.54	107.20
5	L	330	GLU	CA-C-N	7.34	128.25	120.03
5	L	330	GLU	C-N-CA	7.34	128.25	120.03
2	S	44	ALA	O-C-N	-7.34	114.76	121.66
8	d	57	ASP	N-CA-C	-7.34	102.93	113.21
8	l	372	ARG	N-CA-C	-7.34	97.85	109.23
8	k	234	THR	CA-CB-OG1	7.34	120.61	109.60
8	l	164	LYS	CA-C-N	7.34	131.23	120.95
8	l	164	LYS	C-N-CA	7.34	131.23	120.95
6	P	108	ALA	CA-C-O	-7.34	112.96	120.96
8	d	55	ALA	O-C-N	-7.34	114.20	122.86
2	H	868	THR	N-CA-C	-7.34	97.86	109.23
2	D	469	MET	N-CA-C	-7.34	102.42	112.03
2	F	318	LEU	N-CA-C	-7.34	104.33	113.28
8	l	296	ARG	N-CA-C	-7.33	103.75	114.39
2	D	252	ASP	CA-CB-CG	7.33	119.93	112.60
8	j	190	LEU	N-CA-CB	7.33	121.01	110.16
8	j	299	GLN	CA-C-N	7.33	129.00	119.84

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	299	GLN	C-N-CA	7.33	129.00	119.84
8	k	395	TYR	N-CA-C	-7.33	103.95	113.12
8	l	305	VAL	O-C-N	-7.33	115.28	123.20
8	n	75	HIS	CE1-NE2-CD2	-7.33	101.67	109.00
8	b	140	SER	CA-C-O	-7.33	112.69	121.56
8	d	29	HIS	CA-CB-CG	-7.33	106.47	113.80
9	o	52	SER	CA-C-N	7.33	129.79	120.56
9	o	52	SER	C-N-CA	7.33	129.79	120.56
2	N	715	HIS	ND1-CE1-NE2	7.33	115.72	108.40
2	Q	68	GLU	CA-C-O	7.33	128.19	120.42
8	a	207	ASN	CA-CB-CG	7.33	119.93	112.60
8	g	337	LEU	N-CA-C	-7.33	104.32	113.18
2	N	701	HIS	CE1-NE2-CD2	-7.32	101.68	109.00
2	F	289	ILE	O-C-N	7.32	129.51	121.90
1	G	405	GLU	N-CA-C	-7.32	104.20	113.43
2	B	326	ALA	CA-C-N	7.32	132.31	120.60
2	B	326	ALA	C-N-CA	7.32	132.31	120.60
2	N	746	ILE	O-C-N	7.32	129.51	121.90
3	K	322	LEU	N-CA-C	-7.32	104.48	113.41
8	j	177	GLU	N-CA-C	-7.31	98.30	109.85
8	i	316	CYS	CA-C-N	7.31	132.42	120.94
8	i	316	CYS	C-N-CA	7.31	132.42	120.94
2	H	319	VAL	CA-C-N	7.31	128.04	120.00
2	H	319	VAL	C-N-CA	7.31	128.04	120.00
3	K	503	HIS	ND1-CE1-NE2	7.31	115.71	108.40
2	B	863	LEU	CA-C-N	7.31	130.07	120.28
2	B	863	LEU	C-N-CA	7.31	130.07	120.28
8	b	114	ILE	CA-C-N	7.31	131.41	120.31
8	b	114	ILE	C-N-CA	7.31	131.41	120.31
2	B	385	ASP	CA-C-N	7.30	130.66	120.29
2	B	385	ASP	C-N-CA	7.30	130.66	120.29
1	M	563	ALA	CA-C-N	7.30	129.94	120.44
1	M	563	ALA	C-N-CA	7.30	129.94	120.44
8	k	265	ARG	N-CA-CB	7.30	122.83	110.49
8	n	331	THR	N-CA-C	-7.30	103.46	112.88
8	e	187	ASN	CA-CB-CG	7.30	119.90	112.60
8	j	220	ILE	CB-CA-C	7.30	119.62	111.59
2	B	693	MET	CA-C-O	-7.30	112.15	120.03
1	C	830	ASN	OD1-CG-ND2	7.30	129.90	122.60
1	A	296	ARG	CA-C-N	7.29	130.65	120.29
1	A	296	ARG	C-N-CA	7.29	130.65	120.29
8	d	367	LEU	O-C-N	-7.29	114.62	120.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	n	181	VAL	N-CA-C	-7.29	97.53	108.17
2	B	631	ASP	CA-C-N	7.29	130.05	120.28
2	B	631	ASP	C-N-CA	7.29	130.05	120.28
8	l	334	HIS	CG-CD2-NE2	7.29	114.49	107.20
1	A	856	ASN	CA-CB-CG	7.29	119.89	112.60
8	m	283	ALA	N-CA-C	-7.29	103.99	114.12
2	T	60	LYS	CA-C-N	7.29	130.04	120.28
2	T	60	LYS	C-N-CA	7.29	130.04	120.28
8	l	14	GLY	O-C-N	7.29	130.22	122.28
2	D	273	CYS	CA-C-N	7.28	135.45	121.54
2	D	273	CYS	C-N-CA	7.28	135.45	121.54
1	E	730	ASP	CA-C-N	7.28	130.63	120.29
1	E	730	ASP	C-N-CA	7.28	130.63	120.29
2	S	38	VAL	CA-C-N	7.28	132.24	120.30
2	S	38	VAL	C-N-CA	7.28	132.24	120.30
8	f	115	HIS	ND1-CE1-NE2	7.28	115.68	108.40
5	L	369	PHE	CA-CB-CG	-7.28	106.52	113.80
8	n	304	MET	N-CA-C	-7.28	102.40	112.30
8	e	436	HIS	CB-CG-CD2	-7.27	121.74	131.20
8	d	46	ASP	N-CA-C	-7.27	104.39	113.55
8	l	288	THR	CA-C-N	7.27	132.36	120.94
8	l	288	THR	C-N-CA	7.27	132.36	120.94
4	J	309	VAL	N-CA-C	7.27	120.18	111.09
8	g	169	TYR	CB-CA-C	-7.27	99.54	111.68
8	k	357	GLN	CA-C-N	7.27	133.09	123.06
8	k	357	GLN	C-N-CA	7.27	133.09	123.06
8	g	123	ASP	CA-CB-CG	7.27	119.87	112.60
8	k	401	ARG	NE-CZ-NH1	7.27	128.77	121.50
2	D	751	ASP	N-CA-CB	7.26	122.45	110.39
8	g	219	HIS	ND1-CE1-NE2	7.26	115.66	108.40
2	B	628	SER	O-C-N	-7.26	113.82	121.30
1	C	520	LEU	O-C-N	7.26	129.63	121.93
2	H	386	HIS	CA-CB-CG	7.26	121.06	113.80
2	D	646	PRO	N-CA-C	-7.26	107.13	114.68
8	n	211	ASN	O-C-N	-7.26	112.70	122.43
9	t	33	THR	CA-C-N	7.26	129.88	120.44
9	t	33	THR	C-N-CA	7.26	129.88	120.44
8	a	411	GLU	CA-C-N	7.26	134.44	123.05
8	a	411	GLU	C-N-CA	7.26	134.44	123.05
8	n	100	ALA	CA-C-N	7.26	134.76	121.70
8	n	100	ALA	C-N-CA	7.26	134.76	121.70
1	C	756	MET	CA-C-O	7.25	128.31	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	b	180	HIS	CE1-NE2-CD2	-7.25	101.75	109.00
8	e	219	HIS	CE1-NE2-CD2	-7.25	101.75	109.00
1	G	370	GLN	CB-CA-C	-7.25	99.44	110.90
8	b	291	LEU	N-CA-C	7.25	120.10	111.33
2	N	372	ASP	CA-C-N	7.25	126.88	119.56
2	N	372	ASP	C-N-CA	7.25	126.88	119.56
8	b	381	HIS	CB-CG-ND1	7.25	133.57	122.70
8	c	51	PHE	CA-CB-CG	7.25	121.05	113.80
8	h	288	THR	CA-C-O	-7.25	112.92	121.11
8	c	295	ARG	N-CA-C	-7.25	104.01	112.92
2	D	525	LEU	CA-C-N	7.24	132.19	120.60
2	D	525	LEU	C-N-CA	7.24	132.19	120.60
3	I	518	ASN	CA-CB-CG	7.24	119.84	112.60
2	N	821	THR	CA-C-N	7.24	129.98	120.28
2	N	821	THR	C-N-CA	7.24	129.98	120.28
2	N	739	LYS	CA-C-N	7.24	132.40	122.19
2	N	739	LYS	C-N-CA	7.24	132.40	122.19
2	N	749	ALA	N-CA-CB	7.24	122.20	110.40
8	b	59	HIS	CA-CB-CG	-7.24	106.56	113.80
8	i	76	SER	CA-C-N	7.23	131.66	121.53
8	i	76	SER	C-N-CA	7.23	131.66	121.53
5	L	1395	HIS	CE1-NE2-CD2	-7.23	101.77	109.00
8	n	180	HIS	N-CA-C	-7.23	104.32	113.43
2	B	671	ARG	CA-C-N	7.23	129.97	120.28
2	B	671	ARG	C-N-CA	7.23	129.97	120.28
2	N	753	PHE	CA-CB-CG	7.23	121.03	113.80
3	K	30	ASP	CA-CB-CG	7.22	119.82	112.60
4	J	986	HIS	ND1-CE1-NE2	7.22	115.62	108.40
8	a	179	SER	N-CA-C	-7.22	102.89	114.09
8	a	38	GLU	CA-C-O	-7.22	112.56	120.36
2	D	271	GLU	N-CA-C	-7.22	104.49	112.72
2	F	312	LEU	CA-C-N	7.22	130.54	120.29
2	F	312	LEU	C-N-CA	7.22	130.54	120.29
6	P	164	PRO	N-CA-C	-7.22	98.78	110.55
8	g	301	LYS	N-CA-C	-7.22	103.67	114.64
8	j	304	MET	CG-SD-CE	7.22	116.78	100.90
8	n	159	ASP	CA-CB-CG	7.22	119.82	112.60
8	f	61	ILE	CA-C-N	7.22	127.25	119.89
8	f	61	ILE	C-N-CA	7.22	127.25	119.89
8	f	245	TYR	N-CA-C	-7.22	101.65	110.31
8	k	69	LEU	N-CA-C	-7.22	104.21	113.16
8	i	433	ASP	CA-C-N	7.21	132.77	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	i	433	ASP	C-N-CA	7.21	132.77	120.72
8	j	433	ASP	CA-CB-CG	7.21	119.81	112.60
1	E	834	HIS	CA-CB-CG	7.21	121.01	113.80
8	d	311	ARG	N-CA-C	-7.21	104.05	112.92
2	T	47	VAL	O-C-N	-7.21	114.95	122.95
4	J	687	TYR	CA-C-N	7.21	126.84	119.56
4	J	687	TYR	C-N-CA	7.21	126.84	119.56
8	e	48	LYS	CA-C-O	-7.21	112.91	120.55
8	g	355	SER	CA-C-O	7.21	128.93	120.14
8	l	381	HIS	CE1-NE2-CD2	-7.20	101.80	109.00
1	A	720	ASP	CA-CB-CG	7.20	119.80	112.60
5	L	1470	PHE	CA-CB-CG	-7.20	106.60	113.80
2	Q	78	HIS	ND1-CE1-NE2	7.20	115.60	108.40
8	c	75	HIS	CE1-NE2-CD2	-7.20	101.80	109.00
8	n	348	PHE	CA-CB-CG	-7.20	106.60	113.80
8	d	91	ILE	CB-CA-C	7.20	118.72	110.88
8	e	122	ILE	N-CA-C	-7.19	105.34	112.17
8	n	103	ASN	CA-CB-CG	7.19	119.79	112.60
1	A	242	SER	N-CA-CB	7.19	122.64	110.49
2	N	571	ASP	CA-C-N	7.19	131.24	120.31
2	N	571	ASP	C-N-CA	7.19	131.24	120.31
1	C	529	HIS	CE1-NE2-CD2	-7.19	101.81	109.00
8	d	286	ARG	N-CA-C	-7.19	102.83	113.61
8	g	135	PHE	CA-CB-CG	-7.19	106.61	113.80
2	H	715	HIS	CG-CD2-NE2	7.18	114.39	107.20
2	T	37	ARG	CA-C-N	7.18	129.76	120.56
2	T	37	ARG	C-N-CA	7.18	129.76	120.56
7	U	625	LEU	N-CA-C	7.18	119.11	111.28
8	d	27	ALA	O-C-N	-7.18	112.81	122.43
1	A	612	LEU	N-CA-C	-7.18	104.41	113.02
8	l	345	LEU	N-CA-C	-7.18	104.65	113.41
2	H	495	VAL	N-CA-C	-7.18	104.27	111.88
8	i	72	ARG	NE-CZ-NH2	-7.18	112.74	119.20
5	L	346	VAL	N-CA-CB	7.17	121.58	111.82
1	M	692	ILE	N-CA-C	-7.17	104.85	111.67
8	k	261	ILE	CA-C-O	-7.17	112.73	119.62
2	H	283	SER	N-CA-C	-7.17	100.87	110.55
1	M	720	ASP	CA-CB-CG	7.17	119.77	112.60
4	J	390	THR	CA-C-N	7.17	131.57	120.82
4	J	390	THR	C-N-CA	7.17	131.57	120.82
7	X	666	ARG	N-CA-C	7.17	119.17	111.36
8	f	290	VAL	N-CA-C	-7.17	105.83	112.43

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	g	381	HIS	CB-CG-CD2	-7.17	121.88	131.20
8	k	13	CYS	N-CA-C	-7.17	104.67	113.41
6	P	242	LEU	N-CA-C	-7.17	97.18	109.15
4	J	694	TYR	N-CA-C	7.16	119.17	111.36
8	h	82	TYR	N-CA-C	-7.16	104.55	112.72
8	f	295	ARG	N-CA-C	-7.16	104.69	113.50
8	h	371	HIS	ND1-CE1-NE2	7.16	115.56	108.40
8	l	347	ASN	OD1-CG-ND2	7.16	129.76	122.60
2	B	616	ILE	CA-C-O	7.16	128.40	120.95
1	M	321	GLN	OE1-CD-NE2	7.16	129.76	122.60
8	l	115	HIS	ND1-CE1-NE2	7.16	115.56	108.40
2	D	469	MET	O-C-N	-7.15	114.93	122.30
2	Q	28	VAL	N-CA-C	-7.15	106.03	112.90
2	B	869	ASP	CA-CB-CG	7.15	119.75	112.60
2	F	692	GLY	N-CA-C	-7.15	104.87	114.95
2	Q	64	ARG	N-CA-C	7.15	119.93	111.71
8	l	241	THR	N-CA-C	-7.15	103.72	113.30
1	C	866	PHE	CA-CB-CG	-7.15	106.65	113.80
3	I	480	TYR	N-CA-C	-7.15	103.22	112.23
3	K	166	PRO	N-CA-C	7.15	119.42	110.70
2	D	573	ILE	CA-C-O	7.14	125.29	119.29
3	I	303	GLN	OE1-CD-NE2	7.14	129.75	122.60
8	b	295	ARG	NE-CZ-NH2	7.14	125.63	119.20
3	I	166	PRO	N-CA-C	7.14	119.41	110.70
1	E	219	ASP	N-CA-C	-7.14	103.58	111.36
8	b	172	PHE	CA-CB-CG	-7.14	106.66	113.80
2	S	59	LYS	CA-C-N	7.14	129.85	120.28
2	S	59	LYS	C-N-CA	7.14	129.85	120.28
5	L	1691	PHE	N-CA-C	-7.14	103.58	111.36
8	f	115	HIS	CE1-NE2-CD2	-7.14	101.86	109.00
8	a	248	TYR	N-CA-C	-7.13	104.45	113.72
7	U	637	SER	CA-C-N	7.13	130.41	120.29
7	U	637	SER	C-N-CA	7.13	130.41	120.29
8	a	103	ASN	CA-CB-CG	7.13	119.73	112.60
8	a	247	GLY	N-CA-C	-7.13	100.69	111.10
8	b	159	ASP	CA-C-O	7.13	126.42	119.08
8	e	317	TYR	N-CA-C	-7.13	100.45	110.50
2	B	397	SER	CA-C-N	7.13	132.61	120.71
2	B	397	SER	C-N-CA	7.13	132.61	120.71
6	P	69	TYR	CA-C-O	-7.13	114.05	119.32
1	C	725	HIS	CA-CB-CG	7.12	120.92	113.80
2	O	33	GLN	CB-CG-CD	-7.12	100.49	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	516	LEU	N-CA-CB	7.12	120.40	110.07
8	h	329	ASP	N-CA-C	-7.12	95.50	109.10
2	H	712	HIS	CG-CD2-NE2	7.12	114.32	107.20
1	E	622	LYS	N-CA-C	-7.12	98.49	109.24
2	Q	79	ARG	NE-CZ-NH2	7.12	125.61	119.20
8	f	37	VAL	N-CA-C	-7.12	106.28	113.47
8	i	279	ASP	N-CA-C	-7.12	103.70	112.88
1	C	621	VAL	N-CA-C	-7.12	97.89	108.85
8	e	328	VAL	CA-CB-CG1	7.12	122.50	110.40
1	C	525	ASP	N-CA-CB	7.11	121.31	110.28
2	N	410	MET	CG-SD-CE	-7.11	85.25	100.90
8	f	230	GLN	N-CA-C	-7.11	102.56	112.45
2	B	857	VAL	CB-CA-C	-7.11	102.54	112.14
8	l	187	ASN	CA-CB-CG	7.11	119.71	112.60
8	n	386	SER	O-C-N	-7.11	114.04	122.15
2	D	681	LYS	N-CA-C	7.11	121.22	112.54
2	T	16	LEU	O-C-N	7.11	129.66	122.12
8	h	332	GLN	OE1-CD-NE2	-7.11	115.49	122.60
1	C	519	PHE	CA-CB-CG	-7.11	106.69	113.80
5	L	224	ARG	NE-CZ-NH2	-7.11	112.80	119.20
8	k	276	LEU	N-CA-C	-7.11	105.14	114.31
8	c	334	HIS	CA-CB-CG	7.11	120.91	113.80
2	F	307	THR	N-CA-C	7.10	121.21	112.54
8	d	347	ASN	CA-CB-CG	7.10	119.70	112.60
8	f	304	MET	N-CA-C	-7.10	103.93	112.59
8	j	6	ILE	CA-C-O	-7.10	112.85	120.59
8	n	408	PHE	N-CA-C	-7.10	104.75	113.41
8	c	377	MET	N-CA-C	-7.10	97.64	109.07
8	n	310	ASP	N-CA-C	-7.10	104.22	113.17
1	E	675	PHE	CA-CB-CG	-7.10	106.70	113.80
4	J	476	ILE	N-CA-C	-7.10	104.81	111.48
8	e	332	GLN	OE1-CD-NE2	-7.10	115.50	122.60
9	p	28	GLY	CA-C-N	7.10	130.89	120.95
9	p	28	GLY	C-N-CA	7.10	130.89	120.95
2	B	318	LEU	CA-C-N	7.10	134.74	121.97
2	B	318	LEU	C-N-CA	7.10	134.74	121.97
2	H	431	ARG	N-CA-CB	7.10	120.66	110.16
6	P	49	GLN	OE1-CD-NE2	7.10	129.70	122.60
8	e	396	ASP	CA-CB-CG	7.10	119.70	112.60
8	b	59	HIS	CE1-NE2-CD2	-7.10	101.90	109.00
3	I	3	HIS	ND1-CE1-NE2	7.09	115.49	108.40
1	A	614	SER	N-CA-C	-7.09	101.87	111.87

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	553	PHE	CA-CB-CG	-7.09	106.71	113.80
2	B	562	ARG	N-CA-C	7.09	121.19	112.54
2	B	264	PHE	CA-C-N	7.09	130.20	120.35
2	B	264	PHE	C-N-CA	7.09	130.20	120.35
8	e	222	ASN	CA-C-N	7.09	128.70	119.84
8	e	222	ASN	C-N-CA	7.09	128.70	119.84
8	k	352	GLY	CA-C-N	7.09	128.70	119.84
8	k	352	GLY	C-N-CA	7.09	128.70	119.84
8	i	432	ILE	O-C-N	-7.08	114.53	121.83
1	G	236	PRO	N-CA-CB	7.08	109.92	103.34
8	l	252	ASP	CB-CA-C	-7.08	96.97	109.71
5	L	1592	HIS	ND1-CE1-NE2	7.08	115.48	108.40
2	O	89	ASN	OD1-CG-ND2	7.08	129.68	122.60
4	J	902	HIS	CE1-NE2-CD2	-7.08	101.92	109.00
2	Q	29	ALA	N-CA-CB	7.08	120.52	110.12
8	m	111	GLY	N-CA-C	-7.08	105.89	114.66
2	N	594	HIS	CA-CB-CG	7.07	120.87	113.80
2	T	68	GLU	CA-C-N	7.07	129.76	120.28
2	T	68	GLU	C-N-CA	7.07	129.76	120.28
1	G	439	PRO	CA-C-N	7.07	129.75	120.28
1	G	439	PRO	C-N-CA	7.07	129.75	120.28
3	K	287	GLU	N-CA-C	-7.07	104.12	112.89
5	L	1530	THR	CA-C-N	7.07	134.43	121.70
5	L	1530	THR	C-N-CA	7.07	134.43	121.70
2	S	35	ALA	CA-C-N	7.07	129.46	120.56
2	S	35	ALA	C-N-CA	7.07	129.46	120.56
8	l	165	LEU	CA-C-N	7.07	132.40	123.14
8	l	165	LEU	C-N-CA	7.07	132.40	123.14
1	C	740	ASN	N-CA-C	7.07	118.61	109.64
8	n	264	PRO	CA-C-O	-7.07	113.12	121.95
1	M	445	VAL	N-CA-C	-7.06	103.59	110.72
7	W	666	ARG	CB-CA-C	-7.06	98.84	110.85
9	s	36	ILE	N-CA-C	7.06	117.82	110.62
8	f	212	ARG	NE-CZ-NH2	-7.06	112.84	119.20
8	k	275	PRO	CA-C-N	7.06	133.32	122.24
8	k	275	PRO	C-N-CA	7.06	133.32	122.24
1	A	524	GLY	CA-C-N	7.06	129.74	120.28
1	A	524	GLY	C-N-CA	7.06	129.74	120.28
3	I	13	PRO	CA-C-N	7.06	131.39	122.85
3	I	13	PRO	C-N-CA	7.06	131.39	122.85
8	d	49	ASP	N-CA-CB	7.06	121.85	110.77
1	A	676	ALA	CA-C-N	7.05	127.76	120.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	676	ALA	C-N-CA	7.05	127.76	120.00
2	D	658	HIS	CE1-NE2-CD2	-7.05	101.94	109.00
4	J	493	ASN	CA-C-N	7.05	132.14	122.19
4	J	493	ASN	C-N-CA	7.05	132.14	122.19
9	s	37	CYS	N-CA-CB	7.05	120.60	110.16
2	H	335	TYR	N-CA-CB	7.05	121.16	110.30
3	I	640	ASP	CA-CB-CG	7.05	119.65	112.60
1	G	736	CYS	O-C-N	-7.05	113.71	122.24
2	Q	96	LEU	CA-C-N	7.05	129.60	120.44
2	Q	96	LEU	C-N-CA	7.05	129.60	120.44
2	Q	65	GLN	CA-C-N	7.05	132.89	122.74
2	Q	65	GLN	C-N-CA	7.05	132.89	122.74
8	e	404	PHE	CA-CB-CG	-7.05	106.75	113.80
2	D	708	SER	N-CA-C	7.04	121.13	112.54
5	L	1543	ARG	NE-CZ-NH1	7.04	128.54	121.50
1	M	509	VAL	O-C-N	7.04	129.08	121.83
2	R	82	GLN	O-C-N	7.04	130.18	122.15
8	f	79	ASN	N-CA-C	-7.04	104.33	114.12
1	A	212	GLN	CA-C-N	7.04	130.29	120.29
1	A	212	GLN	C-N-CA	7.04	130.29	120.29
1	G	243	ARG	N-CA-CB	7.04	120.46	109.69
3	K	193	HIS	ND1-CE1-NE2	7.04	115.44	108.40
8	a	205	LEU	N-CA-C	-7.04	96.71	108.75
9	r	17	VAL	N-CA-CB	7.04	121.14	110.58
8	a	404	PHE	CA-CB-CG	-7.04	106.76	113.80
2	F	603	ALA	N-CA-C	7.04	121.09	112.23
8	k	292	ASP	CA-CB-CG	7.04	119.64	112.60
8	e	271	THR	N-CA-C	-7.03	97.94	109.40
8	i	323	ILE	N-CA-C	-7.03	97.72	107.99
8	i	381	HIS	N-CA-C	-7.03	98.47	109.72
3	I	119	ILE	CA-CB-CG1	7.03	122.36	110.40
8	k	53	TYR	CA-C-N	7.03	131.36	121.24
8	k	53	TYR	C-N-CA	7.03	131.36	121.24
3	I	468	PRO	O-C-N	7.03	132.42	122.37
4	J	825	LEU	N-CA-C	-7.03	102.68	112.45
8	i	131	SER	CA-C-N	7.03	131.47	121.42
8	i	131	SER	C-N-CA	7.03	131.47	121.42
2	R	51	GLU	N-CA-C	-7.03	103.62	111.28
8	a	64	ALA	N-CA-C	-7.02	98.48	109.72
2	F	802	ARG	CA-C-N	7.02	130.26	120.29
2	F	802	ARG	C-N-CA	7.02	130.26	120.29
8	i	399	ARG	N-CA-C	-7.02	104.18	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	366	TYR	CA-C-N	7.02	129.85	120.58
8	l	366	TYR	C-N-CA	7.02	129.85	120.58
3	I	507	ASN	O-C-N	-7.02	114.58	122.86
2	D	574	ARG	NE-CZ-NH1	7.02	128.52	121.50
2	H	878	ARG	O-C-N	-7.02	112.93	122.33
4	J	732	ASP	CA-CB-CG	7.02	119.62	112.60
2	S	52	PHE	CA-CB-CG	-7.02	106.78	113.80
1	M	549	ARG	N-CA-CB	7.02	121.15	110.28
8	e	257	ILE	CA-C-O	-7.02	112.89	120.47
1	M	629	ILE	CA-C-N	7.01	130.83	120.87
1	M	629	ILE	C-N-CA	7.01	130.83	120.87
8	a	139	HIS	CG-CD2-NE2	7.01	114.22	107.20
9	r	45	ILE	CA-C-N	7.01	130.14	120.39
9	r	45	ILE	C-N-CA	7.01	130.14	120.39
3	I	635	HIS	CB-CG-CD2	-7.01	122.08	131.20
6	P	64	ILE	N-CA-CB	-7.01	104.50	112.21
8	i	111	GLY	N-CA-C	-7.01	103.41	115.61
1	C	234	VAL	N-CA-C	-7.01	98.39	108.48
1	C	312	LEU	CA-C-O	-7.01	111.91	119.97
7	X	666	ARG	NE-CZ-NH1	-7.01	114.49	121.50
8	f	180	HIS	ND1-CE1-NE2	7.01	115.41	108.40
8	e	211	ASN	CA-C-O	7.01	128.16	119.05
7	X	617	ALA	CA-C-N	7.00	129.67	120.28
7	X	617	ALA	C-N-CA	7.00	129.67	120.28
1	A	535	GLU	CA-C-N	7.00	130.36	120.28
1	A	535	GLU	C-N-CA	7.00	130.36	120.28
2	H	376	ARG	CA-C-N	7.00	130.95	120.31
2	H	376	ARG	C-N-CA	7.00	130.95	120.31
2	S	93	ILE	CA-C-N	7.00	130.95	120.31
2	S	93	ILE	C-N-CA	7.00	130.95	120.31
2	B	421	VAL	O-C-N	7.00	128.66	121.87
7	X	657	ILE	N-CA-C	7.00	117.11	110.53
8	a	395	TYR	N-CA-C	-7.00	104.37	113.12
2	N	410	MET	N-CA-C	-7.00	104.74	113.28
8	a	38	GLU	N-CA-C	-7.00	97.49	108.90
9	p	16	ASP	CA-C-N	7.00	129.38	120.56
9	p	16	ASP	C-N-CA	7.00	129.38	120.56
2	D	300	HIS	N-CA-C	-7.00	103.08	111.69
8	b	292	ASP	CA-CB-CG	7.00	119.60	112.60
8	c	383	ASN	CA-CB-CG	7.00	119.60	112.60
1	A	369	SER	N-CA-C	-6.99	102.22	111.24
2	F	264	PHE	CA-CB-CG	-6.99	106.81	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	m	390	ARG	NE-CZ-NH1	-6.99	114.51	121.50
2	N	520	GLU	CA-C-N	6.99	134.90	121.54
2	N	520	GLU	C-N-CA	6.99	134.90	121.54
1	A	659	ILE	CA-C-O	-6.99	112.70	120.25
8	d	308	GLY	O-C-N	-6.99	117.26	122.71
8	j	294	MET	N-CA-C	-6.99	103.32	112.41
8	n	135	PHE	N-CA-C	-6.99	96.32	108.69
4	J	1001	SER	N-CA-C	-6.99	98.01	109.40
1	M	317	LEU	N-CA-C	-6.99	102.85	113.89
2	N	663	PHE	CA-CB-CG	-6.99	106.81	113.80
1	A	627	LEU	CA-C-N	6.98	130.34	120.42
1	A	627	LEU	C-N-CA	6.98	130.34	120.42
5	L	551	GLU	CA-C-N	6.98	134.88	121.54
5	L	551	GLU	C-N-CA	6.98	134.88	121.54
8	g	407	GLN	N-CA-C	-6.98	104.68	112.57
2	D	839	ILE	CA-C-N	6.98	126.96	119.28
2	D	839	ILE	C-N-CA	6.98	126.96	119.28
4	J	368	PHE	N-CA-C	6.98	119.92	111.82
3	K	7	LEU	N-CA-CB	6.98	121.42	110.46
8	f	362	ARG	NE-CZ-NH1	-6.98	114.52	121.50
6	P	73	HIS	CE1-NE2-CD2	-6.98	102.02	109.00
8	b	235	ILE	CA-C-N	6.98	129.93	120.44
8	b	235	ILE	C-N-CA	6.98	129.93	120.44
8	g	220	ILE	CA-C-N	6.98	129.63	120.28
8	g	220	ILE	C-N-CA	6.98	129.63	120.28
8	c	84	ASN	N-CA-C	-6.97	104.80	113.38
1	E	467	THR	CA-C-N	6.97	130.39	120.49
1	E	467	THR	C-N-CA	6.97	130.39	120.49
8	c	132	LEU	CA-C-N	6.97	130.11	120.63
8	c	132	LEU	C-N-CA	6.97	130.11	120.63
8	h	5	ILE	O-C-N	-6.97	116.03	123.14
2	F	251	ARG	NE-CZ-NH2	6.97	125.47	119.20
5	L	455	LEU	N-CA-C	-6.97	104.93	113.50
3	K	512	ILE	CA-CB-CG1	6.97	122.25	110.40
1	M	494	ALA	CA-C-N	6.97	130.18	120.29
1	M	494	ALA	C-N-CA	6.97	130.18	120.29
7	U	671	PHE	CA-CB-CG	-6.97	106.83	113.80
2	N	394	GLU	N-CA-C	-6.96	106.68	114.62
8	l	290	VAL	CA-C-O	6.96	127.48	119.89
4	J	466	ARG	NE-CZ-NH2	-6.96	112.93	119.20
1	M	635	THR	N-CA-CB	6.96	121.07	110.28
8	b	128	GLY	CA-C-N	6.96	130.60	120.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	b	128	GLY	C-N-CA	6.96	130.60	120.71
7	X	597	ALA	CA-C-N	6.96	130.00	120.46
7	X	597	ALA	C-N-CA	6.96	130.00	120.46
8	d	216	ASP	CA-CB-CG	6.96	119.56	112.60
9	r	9	SER	N-CA-C	6.96	118.87	111.28
7	U	632	GLN	CA-C-N	6.96	129.61	120.28
7	U	632	GLN	C-N-CA	6.96	129.61	120.28
1	A	429	GLN	CA-C-N	6.96	132.04	120.70
1	A	429	GLN	C-N-CA	6.96	132.04	120.70
2	T	17	CYS	CA-C-N	6.96	129.60	120.28
2	T	17	CYS	C-N-CA	6.96	129.60	120.28
8	h	396	ASP	CA-CB-CG	6.96	119.56	112.60
8	j	315	HIS	CA-CB-CG	-6.96	106.84	113.80
8	k	25	LEU	N-CA-C	6.96	119.89	111.82
8	c	148	GLY	CA-C-O	-6.96	113.11	120.90
2	D	704	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
8	a	180	HIS	N-CA-C	-6.95	95.99	110.80
1	E	435	GLN	CA-C-N	6.95	129.59	120.28
1	E	435	GLN	C-N-CA	6.95	129.59	120.28
1	E	461	GLU	CA-C-N	6.95	130.08	120.63
1	E	461	GLU	C-N-CA	6.95	130.08	120.63
2	N	497	HIS	CE1-NE2-CD2	-6.95	102.05	109.00
3	I	3	HIS	CG-CD2-NE2	6.95	114.14	107.20
1	G	618	ASP	N-CA-C	-6.94	98.76	109.24
1	M	299	GLY	CA-C-N	6.94	130.14	120.29
1	M	299	GLY	C-N-CA	6.94	130.14	120.29
2	B	458	LEU	N-CA-C	-6.94	102.94	112.03
5	L	1402	PHE	CA-CB-CG	-6.94	106.86	113.80
8	a	87	ASN	CA-CB-CG	-6.94	105.66	112.60
8	k	145	THR	CA-C-O	-6.94	113.13	120.55
3	K	560	HIS	CG-CD2-NE2	6.93	114.14	107.20
2	B	470	ILE	CA-C-O	-6.93	110.66	119.95
1	G	248	GLU	N-CA-C	-6.93	99.97	109.95
8	g	267	HIS	CE1-NE2-CD2	-6.93	102.07	109.00
8	j	305	VAL	N-CA-C	-6.93	98.05	108.17
1	C	516	LYS	N-CA-C	6.93	118.83	111.28
2	H	317	GLY	CA-C-O	6.93	127.01	122.23
2	N	530	GLN	N-CA-C	-6.93	104.80	113.18
8	f	415	LYS	CA-CB-CG	6.93	127.96	114.10
1	M	571	ASP	N-CA-C	-6.92	104.83	112.72
2	R	63	VAL	CA-C-N	6.92	129.56	120.28
2	R	63	VAL	C-N-CA	6.92	129.56	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	e	322	ASN	CA-CB-CG	6.92	119.52	112.60
7	V	647	TYR	N-CA-C	-6.92	104.65	113.23
8	j	341	ARG	NE-CZ-NH2	-6.92	112.97	119.20
4	J	902	HIS	CG-CD2-NE2	6.92	114.12	107.20
1	E	350	PHE	CA-CB-CG	6.92	120.72	113.80
8	j	84	ASN	N-CA-C	-6.92	103.37	114.09
1	A	318	LEU	N-CA-CB	6.92	122.41	111.20
2	D	524	ASP	CA-C-N	6.92	132.34	122.24
2	D	524	ASP	C-N-CA	6.92	132.34	122.24
8	h	292	ASP	CA-CB-CG	6.92	119.52	112.60
2	H	636	VAL	CA-C-N	6.91	130.62	120.95
2	H	636	VAL	C-N-CA	6.91	130.62	120.95
8	j	198	ASN	CA-CB-CG	-6.91	105.69	112.60
1	C	313	GLN	OE1-CD-NE2	6.91	129.51	122.60
1	A	225	ILE	N-CA-C	-6.90	106.00	112.83
8	a	175	GLN	CA-C-N	6.90	129.41	120.44
8	a	175	GLN	C-N-CA	6.90	129.41	120.44
8	e	409	ARG	NE-CZ-NH1	6.90	128.40	121.50
5	L	1514	LYS	CA-C-N	6.90	130.22	120.28
5	L	1514	LYS	C-N-CA	6.90	130.22	120.28
8	d	321	LEU	N-CA-C	-6.90	97.96	109.07
5	L	582	ASP	CA-CB-CG	6.90	119.50	112.60
2	S	46	THR	CA-C-O	6.90	128.29	120.84
8	e	110	GLN	OE1-CD-NE2	6.90	129.50	122.60
8	g	287	LYS	CA-C-N	6.90	132.30	122.09
8	g	287	LYS	C-N-CA	6.90	132.30	122.09
8	d	302	ASN	OD1-CG-ND2	-6.90	115.70	122.60
1	C	754	CYS	CA-C-O	-6.89	111.66	119.79
5	L	1569	HIS	CE1-NE2-CD2	-6.89	102.11	109.00
8	a	366	TYR	N-CA-C	-6.89	96.12	110.80
8	j	66	LEU	CA-C-O	6.89	127.78	120.33
4	J	261	VAL	CA-C-O	-6.89	113.15	120.39
8	a	300	PRO	N-CA-CB	6.89	107.85	103.23
3	K	87	ARG	NE-CZ-NH2	6.89	125.40	119.20
8	n	61	ILE	N-CA-C	-6.89	100.05	107.77
2	D	611	PHE	N-CA-C	-6.89	103.23	112.94
6	P	246	GLN	O-C-N	-6.89	114.49	122.89
7	W	635	ILE	CA-C-N	6.89	129.51	120.28
7	W	635	ILE	C-N-CA	6.89	129.51	120.28
8	j	334	HIS	CA-CB-CG	6.89	120.69	113.80
1	C	437	GLN	N-CA-C	-6.88	102.07	110.88
2	H	632	THR	N-CA-C	-6.88	103.70	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	e	251	ASN	CA-CB-CG	6.88	119.48	112.60
2	B	450	ASP	CA-CB-CG	6.88	119.48	112.60
3	K	372	PHE	O-C-N	6.88	129.16	122.07
5	L	573	TYR	N-CA-C	-6.88	98.95	109.41
1	E	619	TYR	CA-C-O	6.88	127.88	120.38
3	K	580	HIS	CA-CB-CG	6.88	120.68	113.80
2	N	642	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
8	c	181	VAL	N-CA-C	-6.88	95.68	107.24
8	g	75	HIS	CE1-NE2-CD2	-6.88	102.12	109.00
2	F	872	LEU	CA-C-O	6.88	126.70	119.14
8	a	95	GLU	O-C-N	6.88	131.74	122.59
2	D	301	ASN	CB-CG-ND2	-6.88	106.09	116.40
5	L	426	ASN	CA-C-N	6.87	126.63	120.10
5	L	426	ASN	C-N-CA	6.87	126.63	120.10
2	D	559	GLN	N-CA-C	-6.87	103.57	112.23
2	H	557	HIS	CG-CD2-NE2	6.87	114.07	107.20
8	b	61	ILE	CA-C-N	6.87	128.43	119.84
8	b	61	ILE	C-N-CA	6.87	128.43	119.84
8	i	376	LEU	CA-C-O	6.87	127.87	120.38
2	D	658	HIS	CG-CD2-NE2	6.87	114.07	107.20
3	I	22	ARG	CA-C-O	-6.87	112.33	120.57
3	I	35	HIS	CA-C-N	6.87	126.83	119.28
3	I	35	HIS	C-N-CA	6.87	126.83	119.28
8	i	221	GLN	CA-C-O	-6.87	113.61	120.82
2	B	574	ARG	NE-CZ-NH1	6.87	128.37	121.50
1	G	610	SER	CA-C-N	6.87	130.36	121.85
1	G	610	SER	C-N-CA	6.87	130.36	121.85
3	I	89	PHE	CA-CB-CG	6.87	120.67	113.80
1	C	288	ASN	CA-C-O	6.86	127.86	119.97
2	D	635	ASP	CA-CB-CG	6.86	119.46	112.60
3	K	53	ILE	N-CA-C	-6.86	104.78	113.22
6	P	285	CYS	CA-C-N	6.86	130.57	120.90
6	P	285	CYS	C-N-CA	6.86	130.57	120.90
8	b	307	THR	CA-C-O	-6.86	113.92	121.33
1	M	614	SER	CA-C-N	6.86	130.49	120.82
1	M	614	SER	C-N-CA	6.86	130.49	120.82
8	b	415	LYS	N-CA-C	-6.86	98.66	109.50
9	p	15	MET	N-CA-C	6.86	119.60	111.71
1	A	748	SER	O-C-N	-6.86	114.85	122.12
2	B	497	HIS	ND1-CE1-NE2	6.86	115.26	108.40
1	C	340	ILE	N-CA-CB	6.86	118.57	110.55
4	J	261	VAL	CA-C-N	6.86	134.04	121.70

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	261	VAL	C-N-CA	6.86	134.04	121.70
2	F	359	SER	CA-C-N	6.86	130.60	120.87
2	F	359	SER	C-N-CA	6.86	130.60	120.87
2	F	287	LYS	CA-C-O	6.85	127.85	119.97
1	E	523	GLN	OE1-CD-NE2	6.85	129.45	122.60
2	H	851	HIS	N-CA-CB	6.85	120.90	110.28
2	N	278	GLY	O-C-N	6.85	129.53	122.54
8	g	79	ASN	N-CA-C	-6.85	105.07	113.50
2	B	473	PHE	N-CA-C	-6.85	104.74	113.23
8	g	172	PHE	N-CA-C	-6.85	101.43	110.40
8	d	334	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
8	e	259	SER	CA-C-O	6.84	127.56	119.28
8	f	93	LEU	CA-C-N	6.84	130.47	120.82
8	f	93	LEU	C-N-CA	6.84	130.47	120.82
8	j	432	ILE	CA-C-N	6.84	130.71	120.31
8	j	432	ILE	C-N-CA	6.84	130.71	120.31
2	N	269	ASN	N-CA-C	-6.84	96.22	110.80
7	U	660	LEU	CA-C-N	6.84	129.34	120.44
7	U	660	LEU	C-N-CA	6.84	129.34	120.44
1	E	561	SER	N-CA-C	-6.84	104.97	113.38
8	g	61	ILE	N-CA-C	-6.84	99.47	107.61
2	H	778	PHE	N-CA-C	-6.84	103.91	111.36
8	k	226	SER	N-CA-C	-6.84	104.83	113.72
8	m	72	ARG	NE-CZ-NH2	-6.84	113.05	119.20
8	m	146	GLY	O-C-N	-6.84	114.82	122.28
8	n	298	LEU	N-CA-C	-6.84	104.13	113.30
8	a	48	LYS	N-CA-C	-6.84	104.92	112.72
8	f	219	HIS	CE1-NE2-CD2	-6.84	102.16	109.00
9	q	20	GLU	CA-C-O	-6.84	113.30	120.55
2	B	323	PHE	CA-CB-CG	6.83	120.64	113.80
4	J	245	HIS	CG-CD2-NE2	6.83	114.03	107.20
2	D	410	MET	N-CA-C	-6.83	104.97	113.38
2	D	480	ARG	NE-CZ-NH2	6.83	125.35	119.20
8	a	170	SER	CA-C-O	-6.83	112.88	120.60
2	B	491	PHE	N-CA-C	6.83	120.87	112.54
2	H	605	ARG	NE-CZ-NH2	6.83	125.35	119.20
8	i	433	ASP	N-CA-CB	6.83	120.86	110.28
1	M	749	LYS	N-CA-C	-6.83	103.90	111.82
8	d	59	HIS	ND1-CE1-NE2	6.83	115.23	108.40
8	l	404	PHE	CA-CB-CG	-6.83	106.97	113.80
2	B	473	PHE	N-CA-CB	6.83	121.09	110.44
2	H	467	LYS	CB-CA-C	6.82	121.04	110.67

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	839	ILE	CA-C-N	6.82	128.37	119.84
2	N	839	ILE	C-N-CA	6.82	128.37	119.84
3	I	189	ALA	O-C-N	6.82	130.66	122.27
7	U	636	GLN	N-CA-C	6.82	118.71	111.28
8	d	13	CYS	N-CA-C	-6.82	105.11	113.50
8	e	412	ASP	N-CA-CB	6.82	122.02	110.49
2	F	756	THR	CA-C-O	-6.82	112.13	119.97
6	P	5	ILE	CA-C-O	6.82	124.78	119.46
2	N	431	ARG	N-CA-CB	6.82	120.84	110.28
8	m	92	TYR	CA-CB-CG	6.82	126.17	113.90
9	p	57	LEU	CA-C-O	-6.82	113.33	120.55
8	k	211	ASN	CA-C-N	6.81	130.67	120.31
8	k	211	ASN	C-N-CA	6.81	130.67	120.31
4	J	254	THR	N-CA-C	-6.81	101.20	109.72
8	b	34	GLU	N-CA-C	-6.81	103.53	114.09
8	f	326	GLY	O-C-N	6.81	129.38	122.91
2	D	446	PHE	CA-CB-CG	6.81	120.61	113.80
1	M	500	ASP	O-C-N	6.81	131.09	122.23
1	A	852	HIS	ND1-CE1-NE2	6.81	115.21	108.40
8	g	244	ARG	N-CA-C	-6.81	102.99	112.12
2	B	651	PHE	CA-C-N	6.81	132.37	120.87
2	B	651	PHE	C-N-CA	6.81	132.37	120.87
2	N	400	HIS	ND1-CE1-NE2	6.81	115.21	108.40
8	m	310	ASP	N-CA-C	-6.81	105.01	113.38
9	t	46	ASN	CA-C-N	6.81	126.41	119.19
9	t	46	ASN	C-N-CA	6.81	126.41	119.19
1	A	724	HIS	CA-C-N	6.81	129.29	120.44
1	A	724	HIS	C-N-CA	6.81	129.29	120.44
1	A	690	GLN	N-CA-C	6.80	120.84	112.54
1	E	441	PHE	CA-C-N	6.80	134.54	121.54
1	E	441	PHE	C-N-CA	6.80	134.54	121.54
8	f	408	PHE	N-CA-C	-6.80	106.18	114.75
8	j	364	SER	CA-C-N	6.80	127.21	119.93
8	j	364	SER	C-N-CA	6.80	127.21	119.93
8	m	220	ILE	CA-C-N	6.80	129.95	120.29
8	m	220	ILE	C-N-CA	6.80	129.95	120.29
1	E	851	GLU	O-C-N	-6.80	114.28	122.65
2	Q	66	ARG	N-CA-CB	6.80	122.81	112.47
8	d	246	PRO	N-CA-CB	6.80	109.24	103.25
8	l	171	VAL	N-CA-C	-6.80	98.33	108.12
3	K	654	TYR	CA-CB-CG	-6.80	101.67	113.90
5	L	1674	VAL	O-C-N	-6.80	115.97	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	V	654	VAL	CB-CA-C	6.79	120.67	111.97
8	d	301	LYS	N-CA-C	-6.79	103.70	113.21
8	f	280	GLN	N-CA-C	-6.79	105.14	113.50
8	e	52	PHE	N-CA-CB	6.79	119.96	109.97
8	g	432	ILE	O-C-N	6.79	128.97	121.90
8	n	290	VAL	CB-CA-C	6.79	121.67	112.36
1	A	636	ARG	N-CA-C	6.79	118.76	111.36
6	P	87	HIS	CG-CD2-NE2	6.79	113.99	107.20
2	R	24	GLY	CA-C-N	6.79	129.38	120.28
2	R	24	GLY	C-N-CA	6.79	129.38	120.28
7	W	618	CYS	CA-C-O	-6.79	113.35	120.55
8	a	414	PHE	CA-CB-CG	-6.79	107.01	113.80
8	d	345	LEU	N-CA-C	6.79	118.68	111.28
8	i	297	LEU	N-CA-C	-6.79	104.20	113.30
2	H	329	GLN	N-CA-C	6.79	118.76	111.36
1	E	350	PHE	N-CA-C	-6.79	98.69	108.60
5	L	1554	HIS	ND1-CE1-NE2	6.79	115.19	108.40
1	E	713	LYS	N-CA-C	6.78	118.75	111.36
5	L	587	PHE	CA-CB-CG	6.78	120.58	113.80
8	d	131	SER	O-C-N	-6.78	115.10	123.04
8	i	326	GLY	CA-C-N	6.78	130.34	120.71
8	i	326	GLY	C-N-CA	6.78	130.34	120.71
3	K	635	HIS	CA-CB-CG	6.78	120.58	113.80
8	l	292	ASP	CA-CB-CG	6.78	119.38	112.60
1	G	325	PHE	N-CA-C	6.78	121.38	113.18
5	L	224	ARG	O-C-N	-6.78	115.29	123.29
5	L	1674	VAL	N-CA-C	-6.78	105.92	112.29
8	k	394	GLN	OE1-CD-NE2	-6.78	115.82	122.60
7	W	666	ARG	N-CA-C	6.78	118.75	111.36
5	L	1480	CYS	N-CA-C	-6.78	103.18	113.89
5	L	504	TYR	CA-C-O	-6.78	113.24	120.42
8	c	29	HIS	CG-CD2-NE2	6.78	113.98	107.20
4	J	964	HIS	CB-CG-ND1	6.77	132.86	122.70
8	f	431	LEU	CA-C-N	6.77	130.43	120.74
8	f	431	LEU	C-N-CA	6.77	130.43	120.74
8	k	247	GLY	O-C-N	6.77	131.50	122.70
8	g	89	GLU	N-CA-CB	6.77	121.93	110.49
4	J	990	VAL	N-CA-C	-6.77	104.25	110.82
8	e	87	ASN	CB-CA-C	-6.77	103.47	110.17
8	n	248	TYR	N-CA-C	-6.77	103.93	112.93
2	Q	102	GLU	N-CA-C	-6.77	98.81	109.50
8	a	334	HIS	ND1-CE1-NE2	6.77	115.17	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	814	SER	N-CA-C	-6.76	104.84	113.23
8	b	181	VAL	N-CA-C	-6.76	99.42	108.35
8	n	61	ILE	O-C-N	-6.76	116.18	121.46
2	F	432	TRP	CA-CB-CG	6.76	126.45	113.60
5	L	1428	PRO	N-CA-CB	6.76	109.00	103.32
1	M	544	ASP	CA-CB-CG	6.76	119.36	112.60
1	A	443	GLN	CA-C-O	6.76	127.62	119.10
7	X	661	ARG	CA-C-O	6.76	127.72	120.55
8	l	140	SER	O-C-N	-6.76	114.63	123.21
8	k	421	LEU	N-CA-C	-6.75	104.51	112.89
1	E	746	ILE	N-CA-C	-6.75	102.39	111.44
1	M	759	ASN	N-CA-CB	6.75	120.46	110.33
2	F	364	ARG	NE-CZ-NH2	-6.75	113.12	119.20
7	V	630	ILE	N-CA-C	6.75	117.51	110.62
8	k	165	LEU	CA-C-N	6.75	131.98	123.14
8	k	165	LEU	C-N-CA	6.75	131.98	123.14
4	J	563	GLN	OE1-CD-NE2	6.75	129.35	122.60
5	L	235	PRO	O-C-N	6.75	129.43	121.46
8	b	177	GLU	CB-CG-CD	-6.75	101.13	112.60
1	E	332	ARG	NE-CZ-NH1	-6.75	114.75	121.50
2	N	729	SER	N-CA-C	-6.75	105.18	113.41
8	h	250	ASN	N-CA-C	-6.75	102.17	111.28
4	J	242	TRP	CG-CD1-NE1	6.74	118.97	110.20
8	h	363	LYS	CA-C-N	6.74	129.76	120.39
8	h	363	LYS	C-N-CA	6.74	129.76	120.39
1	G	566	ASP	O-C-N	-6.74	114.31	120.92
7	V	631	LYS	O-C-N	-6.74	114.97	122.12
8	d	282	VAL	N-CA-C	-6.74	106.08	113.43
2	B	461	ASP	CA-CB-CG	-6.74	105.86	112.60
2	S	67	ARG	N-CA-C	-6.73	97.17	109.56
2	F	666	LEU	CA-C-N	6.73	129.85	120.29
2	F	666	LEU	C-N-CA	6.73	129.85	120.29
4	J	483	ASP	CA-CB-CG	6.73	119.33	112.60
6	P	111	ASN	CA-C-O	-6.73	112.98	120.25
8	h	11	GLY	N-CA-C	-6.73	105.17	112.04
2	N	567	LEU	N-CA-CB	6.73	121.86	110.49
8	c	120	ASP	N-CA-C	-6.73	102.69	111.71
8	l	372	ARG	NH1-CZ-NH2	-6.73	110.55	119.30
9	q	53	VAL	CA-C-O	-6.73	114.04	121.17
1	A	549	ARG	NE-CZ-NH2	-6.73	113.14	119.20
8	e	69	LEU	N-CA-C	-6.73	105.07	113.28
8	k	132	LEU	CA-C-N	6.73	129.78	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	k	132	LEU	C-N-CA	6.73	129.78	120.63
8	e	76	SER	N-CA-CB	-6.72	101.28	110.56
1	E	498	LEU	N-CA-C	-6.72	103.42	111.69
4	J	797	SER	N-CA-C	-6.72	98.88	109.50
1	M	243	ARG	NE-CZ-NH2	-6.72	113.15	119.20
8	e	299	GLN	CA-C-N	6.72	128.44	121.65
8	e	299	GLN	C-N-CA	6.72	128.44	121.65
8	i	274	THR	O-C-N	-6.72	113.59	121.32
8	n	75	HIS	ND1-CE1-NE2	6.72	115.12	108.40
2	H	379	THR	CA-C-O	6.72	127.13	119.27
8	g	176	ASP	CA-C-O	-6.72	113.74	120.80
8	i	202	VAL	N-CA-C	-6.72	97.86	108.95
1	E	219	ASP	CA-C-O	-6.72	113.30	120.42
2	O	71	GLY	N-CA-C	6.72	120.79	112.73
8	h	265	ARG	CA-C-O	6.72	130.47	122.14
8	m	68	ASP	CA-CB-CG	-6.72	105.88	112.60
9	o	25	LEU	CA-C-N	6.72	132.36	122.82
9	o	25	LEU	C-N-CA	6.72	132.36	122.82
2	B	604	VAL	CA-C-N	6.72	134.84	121.81
2	B	604	VAL	C-N-CA	6.72	134.84	121.81
7	V	614	PHE	CA-C-N	6.72	129.17	120.44
7	V	614	PHE	C-N-CA	6.72	129.17	120.44
8	h	362	ARG	NH1-CZ-NH2	-6.72	110.57	119.30
8	j	150	GLY	CA-C-O	-6.72	112.91	120.30
8	k	115	HIS	CE1-NE2-CD2	-6.72	102.28	109.00
2	D	457	ARG	NE-CZ-NH2	6.71	125.24	119.20
1	M	856	ASN	OD1-CG-ND2	-6.71	115.89	122.60
2	R	69	ALA	CA-C-N	6.71	129.82	120.29
2	R	69	ALA	C-N-CA	6.71	129.82	120.29
8	f	138	CYS	N-CA-CB	-6.71	100.46	110.60
3	K	89	PHE	CA-CB-CG	-6.71	107.09	113.80
3	I	296	THR	N-CA-C	-6.71	103.21	111.40
8	m	100	ALA	CA-C-N	6.71	133.78	121.70
8	m	100	ALA	C-N-CA	6.71	133.78	121.70
9	p	39	ARG	CA-C-N	6.71	129.82	120.29
9	p	39	ARG	C-N-CA	6.71	129.82	120.29
1	A	675	PHE	CA-C-N	6.71	130.51	120.31
1	A	675	PHE	C-N-CA	6.71	130.51	120.31
6	P	111	ASN	CA-C-N	6.71	126.69	119.78
6	P	111	ASN	C-N-CA	6.71	126.69	119.78
8	f	42	THR	CA-C-O	-6.71	111.66	119.24
8	g	222	ASN	CA-C-O	-6.71	112.39	119.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	g	323	ILE	N-CA-CB	6.71	119.06	111.21
8	h	253	LEU	CA-C-N	6.71	131.87	121.34
8	h	253	LEU	C-N-CA	6.71	131.87	121.34
8	l	108	PHE	CA-CB-CG	-6.71	107.09	113.80
3	K	442	ARG	NE-CZ-NH2	-6.71	113.16	119.20
8	b	174	ASN	CA-CB-CG	6.71	119.31	112.60
8	f	58	GLU	N-CA-CB	6.71	122.10	111.91
8	l	321	LEU	CA-C-O	-6.71	113.60	120.71
3	I	641	LEU	CA-C-O	-6.70	113.44	120.55
8	i	44	GLY	O-C-N	-6.70	113.99	122.70
5	L	552	PHE	N-CA-C	-6.70	96.53	110.80
2	F	704	HIS	CG-CD2-NE2	6.70	113.90	107.20
2	H	701	HIS	CG-CD2-NE2	6.70	113.90	107.20
1	A	243	ARG	CD-NE-CZ	6.70	133.77	124.40
8	e	234	THR	CA-C-O	-6.70	113.32	120.42
5	L	590	HIS	N-CA-C	-6.69	104.15	112.72
1	A	540	LYS	N-CA-C	-6.69	101.35	109.72
8	a	423	ASN	CA-CB-CG	6.69	119.29	112.60
2	B	490	ASN	CB-CG-ND2	6.69	126.44	116.40
2	D	321	GLN	OE1-CD-NE2	6.69	129.29	122.60
3	K	451	ALA	O-C-N	-6.69	114.36	122.05
8	d	229	ASN	N-CA-C	-6.69	105.12	113.28
9	r	23	ARG	CA-C-N	6.69	129.24	120.28
9	r	23	ARG	C-N-CA	6.69	129.24	120.28
9	t	20	GLU	CA-C-N	6.69	128.99	120.56
9	t	20	GLU	C-N-CA	6.69	128.99	120.56
5	L	1676	ARG	NE-CZ-NH2	-6.69	113.18	119.20
8	a	414	PHE	N-CA-C	-6.69	103.27	112.03
8	h	390	ARG	NE-CZ-NH1	-6.69	114.81	121.50
4	J	564	LEU	N-CA-C	6.69	118.22	111.07
8	a	36	ILE	N-CA-C	-6.69	98.64	108.54
5	L	1605	LEU	CA-C-N	6.68	134.31	121.54
5	L	1605	LEU	C-N-CA	6.68	134.31	121.54
8	m	122	ILE	O-C-N	6.68	128.88	122.20
8	n	393	ARG	NH1-CZ-NH2	-6.68	110.61	119.30
1	A	571	ASP	CA-CB-CG	6.68	119.28	112.60
2	B	581	LYS	CA-C-O	-6.68	111.86	118.34
1	G	465	ASP	CA-C-N	6.68	130.88	121.66
1	G	465	ASP	C-N-CA	6.68	130.88	121.66
8	n	95	GLU	N-CA-CB	6.68	121.78	110.49
8	k	315	HIS	CG-CD2-NE2	6.68	113.88	107.20
8	n	405	LEU	N-CA-C	-6.68	105.17	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	451	THR	CA-C-O	-6.68	111.86	118.34
1	E	496	LYS	CA-C-O	-6.68	113.34	120.42
2	F	564	TYR	CA-CB-CG	-6.68	101.88	113.90
8	e	158	ASN	OD1-CG-ND2	6.68	129.28	122.60
8	i	432	ILE	CA-C-O	6.68	127.93	120.85
8	n	416	ASP	CA-CB-CG	-6.68	105.92	112.60
9	s	39	ARG	N-CA-C	6.68	118.21	111.07
1	A	720	ASP	CA-C-N	6.67	129.90	120.42
1	A	720	ASP	C-N-CA	6.67	129.90	120.42
5	L	402	ALA	CA-C-N	6.67	129.22	120.28
5	L	402	ALA	C-N-CA	6.67	129.22	120.28
2	R	61	GLU	N-CA-CB	6.67	119.75	110.07
8	j	422	ASP	CA-CB-CG	6.67	119.27	112.60
8	d	61	ILE	CA-C-N	6.67	128.18	119.84
8	d	61	ILE	C-N-CA	6.67	128.18	119.84
2	F	405	THR	CA-C-N	6.67	134.48	121.41
2	F	405	THR	C-N-CA	6.67	134.48	121.41
4	J	445	ASN	CB-CA-C	-6.67	100.96	111.17
8	f	245	TYR	CA-CB-CG	-6.67	101.89	113.90
8	n	286	ARG	NE-CZ-NH2	-6.67	113.20	119.20
8	m	59	HIS	CE1-NE2-CD2	-6.67	102.33	109.00
3	K	537	GLU	N-CA-CB	6.67	119.65	109.98
8	g	175	GLN	OE1-CD-NE2	6.67	129.27	122.60
8	h	430	GLN	OE1-CD-NE2	-6.67	115.93	122.60
1	E	529	HIS	ND1-CE1-NE2	6.67	115.07	108.40
2	F	606	ALA	N-CA-C	6.67	120.67	112.54
4	J	567	ASN	CA-CB-CG	6.67	119.27	112.60
5	L	421	ASP	N-CA-C	-6.67	104.72	112.92
2	N	498	ASP	N-CA-C	-6.67	98.03	108.90
2	S	70	ASP	N-CA-CB	6.67	120.03	110.16
2	H	524	ASP	CA-CB-CG	-6.67	105.94	112.60
8	m	19	PHE	O-C-N	6.67	129.29	122.09
2	B	802	ARG	NE-CZ-NH2	6.66	125.20	119.20
6	P	147	ARG	NE-CZ-NH2	-6.66	113.20	119.20
2	T	50	ASP	CA-C-N	6.66	129.21	120.28
2	T	50	ASP	C-N-CA	6.66	129.21	120.28
8	a	315	HIS	ND1-CE1-NE2	6.66	115.06	108.40
8	e	408	PHE	N-CA-C	-6.66	105.06	113.72
8	k	110	GLN	N-CA-C	-6.66	105.15	113.28
1	G	321	GLN	OE1-CD-NE2	6.66	129.26	122.60
3	I	414	LEU	O-C-N	6.66	130.76	123.10
5	L	410	ARG	NE-CZ-NH2	-6.66	113.21	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	b	295	ARG	NH1-CZ-NH2	-6.66	110.64	119.30
8	c	147	SER	N-CA-C	-6.66	104.97	113.23
8	k	367	LEU	O-C-N	-6.66	113.66	121.32
1	E	406	PHE	CA-CB-CG	6.66	120.46	113.80
2	H	701	HIS	CE1-NE2-CD2	-6.66	102.34	109.00
4	J	569	LYS	N-CA-C	-6.66	98.77	109.96
1	M	863	PHE	CA-CB-CG	6.66	120.46	113.80
3	I	353	GLN	O-C-N	-6.66	114.08	122.27
2	H	767	SER	N-CA-C	-6.66	105.48	112.93
5	L	1363	MET	CG-SD-CE	-6.66	86.26	100.90
8	d	336	SER	N-CA-C	6.66	118.61	111.36
6	P	28	ARG	N-CA-C	-6.65	103.64	111.03
3	I	59	ILE	N-CA-CB	6.65	118.62	110.64
8	b	39	GLU	N-CA-C	-6.65	104.91	113.16
5	L	1524	TRP	CE2-CD2-CE3	6.65	125.45	118.80
1	A	286	GLN	CB-CG-CD	-6.65	101.30	112.60
8	f	318	ILE	N-CA-C	-6.65	106.53	112.12
2	D	508	VAL	CA-C-N	6.65	127.32	119.94
2	D	508	VAL	C-N-CA	6.65	127.32	119.94
4	J	227	ARG	NE-CZ-NH2	-6.65	113.22	119.20
8	m	104	TRP	CB-CG-CD2	6.65	136.11	126.80
2	S	14	GLN	OE1-CD-NE2	-6.65	115.95	122.60
8	m	415	LYS	N-CA-C	-6.65	98.04	108.14
8	n	267	HIS	CG-CD2-NE2	6.65	113.85	107.20
2	D	644	ASP	CA-CB-CG	6.64	119.24	112.60
3	I	373	ILE	N-CA-C	-6.64	104.01	110.72
3	K	130	HIS	CA-C-O	6.64	127.05	119.27
2	N	878	ARG	NE-CZ-NH2	-6.64	113.22	119.20
8	m	386	SER	N-CA-CB	6.64	120.58	110.28
3	I	599	ASN	N-CA-C	-6.64	97.69	108.52
5	L	1411	ALA	CA-C-O	6.64	127.63	119.79
2	Q	31	GLN	OE1-CD-NE2	6.64	129.24	122.60
1	A	680	THR	CA-CB-OG1	6.64	119.56	109.60
2	R	10	ASN	CA-C-N	6.64	128.93	120.56
2	R	10	ASN	C-N-CA	6.64	128.93	120.56
8	m	45	THR	N-CA-C	-6.64	97.59	108.41
8	e	57	ASP	N-CA-C	-6.64	107.05	114.62
2	B	517	ASP	CA-CB-CG	6.64	119.24	112.60
8	h	264	PRO	CA-C-N	6.64	132.44	122.68
8	h	264	PRO	C-N-CA	6.64	132.44	122.68
1	E	532	ASP	CA-C-O	6.63	127.60	120.10
8	a	232	VAL	CB-CA-C	6.63	120.30	111.94

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	400	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
2	N	795	ALA	N-CA-C	-6.63	105.35	113.50
8	g	358	VAL	N-CA-C	-6.63	98.93	108.48
1	E	411	HIS	ND1-CE1-NE2	6.63	115.03	108.40
8	j	172	PHE	CA-C-N	6.63	127.01	119.92
8	j	172	PHE	C-N-CA	6.63	127.01	119.92
1	G	308	GLN	N-CA-CB	6.63	120.55	110.28
2	R	91	TRP	CA-C-N	6.63	129.16	120.28
2	R	91	TRP	C-N-CA	6.63	129.16	120.28
8	h	219	HIS	CE1-NE2-CD2	-6.63	102.37	109.00
8	i	317	TYR	CA-C-N	6.62	129.73	122.77
8	i	317	TYR	C-N-CA	6.62	129.73	122.77
8	l	411	GLU	CA-C-N	6.62	134.19	121.54
8	l	411	GLU	C-N-CA	6.62	134.19	121.54
2	D	247	THR	CA-C-O	6.62	127.59	119.97
2	R	42	ASN	CA-CB-CG	6.62	119.22	112.60
3	I	5	LEU	N-CA-C	-6.62	105.33	113.41
2	N	707	ALA	CA-C-O	-6.62	112.89	120.24
2	B	300	HIS	CA-CB-CG	-6.62	107.18	113.80
5	L	1587	GLU	CA-C-N	6.62	130.93	120.47
5	L	1587	GLU	C-N-CA	6.62	130.93	120.47
2	H	874	PHE	O-C-N	-6.62	114.61	122.15
1	A	464	HIS	CE1-NE2-CD2	-6.62	102.39	109.00
2	H	533	ILE	CA-C-N	6.62	129.14	120.28
2	H	533	ILE	C-N-CA	6.62	129.14	120.28
8	h	62	PRO	N-CA-CB	6.62	108.88	103.32
8	m	179	SER	N-CA-C	-6.61	103.61	112.94
8	h	75	HIS	CA-CB-CG	-6.61	107.19	113.80
8	d	228	ILE	N-CA-C	-6.61	107.43	113.71
8	n	390	ARG	NE-CZ-NH2	6.61	125.15	119.20
8	f	180	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
2	B	319	VAL	CA-C-N	6.61	127.43	120.03
2	B	319	VAL	C-N-CA	6.61	127.43	120.03
1	C	252	ASP	N-CA-C	-6.61	99.70	109.81
5	L	1688	ARG	NE-CZ-NH2	6.61	125.15	119.20
2	R	64	ARG	N-CA-CB	6.61	119.83	110.12
8	f	276	LEU	N-CA-C	-6.61	106.42	114.75
8	g	345	LEU	N-CA-C	6.61	118.48	111.28
4	J	423	THR	N-CA-CB	6.61	121.65	110.49
8	n	59	HIS	CE1-NE2-CD2	-6.61	102.39	109.00
9	s	53	VAL	CA-C-N	6.61	128.88	120.56
9	s	53	VAL	C-N-CA	6.61	128.88	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	161	TYR	CA-C-N	6.60	126.19	119.19
8	j	161	TYR	C-N-CA	6.60	126.19	119.19
8	l	178	MET	N-CA-C	-6.60	104.39	114.16
9	r	36	ILE	CA-C-N	6.60	129.12	120.28
9	r	36	ILE	C-N-CA	6.60	129.12	120.28
4	J	461	TRP	CD2-CE2-CZ2	-6.60	115.80	122.40
8	h	219	HIS	ND1-CE1-NE2	6.60	115.00	108.40
8	j	49	ASP	CA-C-O	6.60	129.95	120.51
8	m	226	SER	N-CA-CB	6.60	121.64	110.49
1	E	378	LEU	CA-C-N	6.60	129.66	120.29
1	E	378	LEU	C-N-CA	6.60	129.66	120.29
3	K	131	LEU	N-CA-C	-6.60	104.46	113.30
2	T	89	ASN	CA-C-N	6.60	129.12	120.28
2	T	89	ASN	C-N-CA	6.60	129.12	120.28
2	Q	22	GLY	N-CA-C	-6.60	104.50	112.48
8	b	191	THR	N-CA-C	-6.59	103.92	112.23
8	g	248	TYR	N-CA-CB	6.59	121.64	110.49
8	i	177	GLU	O-C-N	6.59	130.91	123.19
8	k	242	THR	N-CA-C	-6.59	104.46	113.30
2	F	371	PHE	CA-CB-CG	6.59	120.39	113.80
5	L	519	PRO	CB-CA-C	-6.59	102.05	111.68
8	l	415	LYS	N-CA-C	-6.59	98.34	108.76
3	I	198	ASP	CA-CB-CG	6.59	119.19	112.60
8	i	52	PHE	N-CA-C	6.59	119.57	110.35
2	O	53	LEU	N-CA-C	6.59	118.46	111.28
1	C	468	CYS	CA-C-N	6.59	126.56	119.78
1	C	468	CYS	C-N-CA	6.59	126.56	119.78
3	I	615	VAL	CA-C-N	6.59	131.71	120.71
3	I	615	VAL	C-N-CA	6.59	131.71	120.71
8	i	334	HIS	CG-CD2-NE2	6.58	113.78	107.20
8	d	124	ARG	N-CA-C	-6.58	105.07	113.23
9	t	50	LEU	CA-C-N	6.58	129.10	120.28
9	t	50	LEU	C-N-CA	6.58	129.10	120.28
7	V	608	GLU	CA-C-O	-6.58	113.58	120.55
1	C	460	ARG	N-CA-C	-6.58	104.19	111.82
2	N	699	VAL	CA-C-O	-6.58	113.67	120.71
8	g	245	TYR	CA-C-N	6.58	126.54	119.76
8	g	245	TYR	C-N-CA	6.58	126.54	119.76
8	d	44	GLY	CA-C-N	6.58	131.17	122.42
8	d	44	GLY	C-N-CA	6.58	131.17	122.42
2	H	493	HIS	ND1-CE1-NE2	6.58	114.98	108.40
3	I	133	PHE	CA-C-O	-6.58	111.15	120.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	b	205	LEU	O-C-N	-6.58	115.72	123.41
8	c	19	PHE	N-CA-C	6.58	118.24	111.14
8	d	103	ASN	CA-C-N	6.58	129.63	120.29
8	d	103	ASN	C-N-CA	6.58	129.63	120.29
1	G	485	GLU	CA-C-N	6.57	129.62	120.29
1	G	485	GLU	C-N-CA	6.57	129.62	120.29
2	H	409	TYR	CA-C-O	-6.57	112.11	119.67
3	I	146	GLN	CB-CG-CD	-6.57	101.42	112.60
2	T	66	ARG	N-CA-CB	6.57	121.60	110.49
3	I	288	ASN	CA-CB-CG	-6.57	106.03	112.60
4	J	999	ARG	N-CA-C	-6.57	104.50	113.30
4	J	999	ARG	N-CA-CB	6.57	120.53	110.61
8	m	102	ASN	CA-CB-CG	-6.57	106.03	112.60
2	F	696	LEU	CA-C-N	6.57	129.37	120.44
2	F	696	LEU	C-N-CA	6.57	129.37	120.44
8	f	252	ASP	CA-CB-CG	-6.57	106.03	112.60
1	A	858	ILE	CA-C-O	-6.57	114.21	121.17
8	e	72	ARG	NH1-CZ-NH2	-6.57	110.77	119.30
8	i	114	ILE	CA-C-O	6.57	128.99	120.78
8	k	371	HIS	CA-CB-CG	6.57	120.37	113.80
2	H	475	THR	N-CA-C	-6.56	99.48	109.85
1	M	684	ARG	NE-CZ-NH2	-6.56	113.29	119.20
8	c	59	HIS	N-CA-C	-6.56	97.58	108.34
8	e	4	GLU	CA-C-N	6.56	131.56	123.10
8	e	4	GLU	C-N-CA	6.56	131.56	123.10
5	L	546	ARG	NE-CZ-NH1	-6.56	114.94	121.50
2	O	34	TYR	CA-C-O	-6.56	113.94	120.82
6	P	131	ALA	O-C-N	6.56	130.44	123.42
8	d	338	GLN	CG-CD-NE2	-6.56	106.56	116.40
8	k	303	VAL	N-CA-C	6.56	119.07	109.63
1	C	763	ARG	NE-CZ-NH2	-6.56	113.30	119.20
2	D	342	HIS	CG-CD2-NE2	6.56	113.76	107.20
4	J	308	SER	CA-C-N	6.56	131.05	120.30
4	J	308	SER	C-N-CA	6.56	131.05	120.30
8	b	330	PRO	N-CA-C	-6.55	106.29	114.68
8	k	360	LEU	N-CA-C	-6.55	99.34	109.24
2	N	557	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
2	O	33	GLN	N-CA-CB	6.55	119.75	110.12
6	P	173	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
8	a	381	HIS	CA-CB-CG	6.55	120.35	113.80
8	g	171	VAL	N-CA-C	-6.55	98.70	108.46
8	j	166	VAL	CB-CA-C	6.55	120.33	110.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	r	54	ILE	O-C-N	6.55	128.58	121.83
2	D	442	TYR	CA-C-N	6.55	134.05	121.54
2	D	442	TYR	C-N-CA	6.55	134.05	121.54
1	G	649	HIS	ND1-CE1-NE2	6.55	114.95	108.40
9	q	54	ILE	CA-C-N	6.55	128.96	120.44
9	q	54	ILE	C-N-CA	6.55	128.96	120.44
2	D	248	SER	N-CA-C	6.55	118.42	111.28
3	I	637	ILE	CA-C-O	6.55	127.86	121.05
4	J	409	HIS	CE1-NE2-CD2	-6.55	102.45	109.00
4	J	994	ASN	CA-CB-CG	6.55	119.15	112.60
2	D	329	GLN	O-C-N	-6.55	115.18	122.12
2	F	644	ASP	CA-CB-CG	6.55	119.15	112.60
2	H	474	MET	N-CA-CB	6.55	119.66	110.04
7	X	627	VAL	CA-C-N	6.55	129.05	120.28
7	X	627	VAL	C-N-CA	6.55	129.05	120.28
2	F	589	THR	N-CA-C	-6.54	99.63	108.86
7	V	650	ASN	N-CA-C	-6.54	97.40	108.26
8	e	339	ARG	NE-CZ-NH2	-6.54	113.31	119.20
8	h	318	ILE	CB-CA-C	6.54	117.32	110.91
8	k	81	PRO	N-CA-CB	6.54	109.79	103.51
1	A	530	PHE	CA-CB-CG	6.54	120.34	113.80
3	K	303	GLN	CA-C-N	6.54	129.05	120.28
3	K	303	GLN	C-N-CA	6.54	129.05	120.28
8	c	21	PHE	CA-CB-CG	6.54	120.34	113.80
8	n	309	ARG	NE-CZ-NH2	-6.54	113.31	119.20
2	D	498	ASP	CA-C-N	6.54	130.10	120.95
2	D	498	ASP	C-N-CA	6.54	130.10	120.95
8	a	30	GLY	CA-C-O	-6.54	112.36	119.82
8	f	224	SER	N-CA-C	-6.54	99.10	109.23
8	j	246	PRO	N-CA-CB	6.54	109.04	103.35
8	f	67	LEU	N-CA-CB	6.53	122.20	110.83
8	j	297	LEU	N-CA-CB	6.53	119.28	110.59
9	o	33	THR	CA-C-N	6.53	129.03	120.28
9	o	33	THR	C-N-CA	6.53	129.03	120.28
9	t	29	LEU	CA-C-N	6.53	131.20	120.94
9	t	29	LEU	C-N-CA	6.53	131.20	120.94
3	I	551	ARG	NE-CZ-NH1	6.53	128.03	121.50
2	D	745	HIS	ND1-CE1-NE2	6.53	114.93	108.40
7	U	646	ARG	N-CA-C	6.53	118.19	111.14
8	j	293	VAL	N-CA-C	-6.53	106.36	112.83
8	n	176	ASP	N-CA-CB	6.53	120.12	110.33
3	K	24	GLY	N-CA-C	-6.53	101.04	112.53

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	R	52	PHE	N-CA-C	6.53	118.06	111.07
8	b	238	ALA	N-CA-C	6.53	119.39	111.82
8	l	357	GLN	OE1-CD-NE2	-6.53	116.07	122.60
5	L	424	HIS	CE1-NE2-CD2	-6.53	102.47	109.00
8	n	147	SER	N-CA-C	-6.53	104.35	112.90
2	B	796	LEU	CA-C-O	-6.53	112.04	120.00
4	J	949	ILE	CB-CA-C	-6.53	103.45	111.87
5	L	86	SER	CA-C-N	6.53	130.23	120.31
5	L	86	SER	C-N-CA	6.53	130.23	120.31
2	Q	44	ALA	N-CA-C	-6.52	99.12	109.04
7	X	616	GLU	CB-CG-CD	6.52	123.69	112.60
2	B	778	PHE	N-CA-CB	6.52	119.81	110.16
1	M	406	PHE	CA-C-N	6.52	131.74	121.56
1	M	406	PHE	C-N-CA	6.52	131.74	121.56
2	N	856	ILE	CA-C-O	-6.52	113.94	120.85
1	C	641	PHE	O-C-N	-6.52	114.25	122.27
8	m	82	TYR	CA-CB-CG	-6.52	102.16	113.90
2	F	783	GLU	CA-C-O	6.52	127.47	119.97
1	G	235	GLN	CA-C-N	6.52	126.28	119.76
1	G	235	GLN	C-N-CA	6.52	126.28	119.76
1	M	432	THR	N-CA-CB	6.52	121.50	110.49
8	e	436	HIS	CB-CG-ND1	6.52	132.47	122.70
8	n	179	SER	N-CA-C	-6.52	103.94	112.41
6	P	145	SER	N-CA-CB	-6.51	101.02	110.47
8	e	99	GLY	CA-C-N	6.51	129.33	120.54
8	e	99	GLY	C-N-CA	6.51	129.33	120.54
8	k	371	HIS	CG-CD2-NE2	6.51	113.71	107.20
2	D	612	ASP	N-CA-C	-6.51	105.49	113.50
2	D	642	HIS	CB-CG-CD2	-6.51	122.74	131.20
8	a	334	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
2	D	744	ASP	CA-CB-CG	-6.51	106.09	112.60
8	b	71	PRO	N-CA-C	-6.51	106.22	114.35
8	i	96	HIS	ND1-CE1-NE2	6.51	114.91	108.40
2	B	497	HIS	CE1-NE2-CD2	-6.51	102.49	109.00
2	H	877	PHE	N-CA-CB	6.51	120.32	110.30
1	M	318	LEU	N-CA-CB	6.51	121.17	110.69
1	E	691	ASN	CA-C-O	-6.50	114.00	120.70
1	C	399	ILE	O-C-N	6.50	130.41	123.00
1	E	619	TYR	O-C-N	-6.50	115.61	123.29
1	G	464	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	M	834	HIS	ND1-CE1-NE2	6.50	114.90	108.40
2	B	460	HIS	CB-CG-CD2	-6.50	122.75	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	526	GLU	N-CA-C	-6.50	104.76	114.64
3	I	415	ASN	OD1-CG-ND2	-6.50	116.10	122.60
1	A	279	ASN	CA-C-N	6.50	129.52	120.29
1	A	279	ASN	C-N-CA	6.50	129.52	120.29
2	D	262	GLY	N-CA-C	-6.50	97.78	113.18
2	F	491	PHE	N-CA-CB	6.50	120.08	110.33
6	P	150	GLY	O-C-N	6.50	129.23	123.06
6	P	177	ARG	N-CA-C	-6.50	97.93	108.52
2	T	78	HIS	CG-CD2-NE2	6.50	113.70	107.20
2	B	658	HIS	CE1-NE2-CD2	-6.50	102.50	109.00
1	C	390	LEU	CA-C-O	6.50	127.45	119.79
2	H	617	LEU	CA-C-O	6.50	127.44	120.55
3	I	91	ARG	CA-C-O	6.50	127.63	119.12
1	M	742	GLU	N-CA-C	6.49	121.04	113.18
2	N	323	PHE	N-CA-CB	6.49	119.43	110.01
2	Q	54	VAL	CA-C-O	-6.49	114.20	120.95
1	C	447	ASP	N-CA-C	6.49	118.36	111.28
2	F	574	ARG	N-CA-C	-6.49	103.70	111.69
2	N	443	HIS	CA-CB-CG	-6.49	107.31	113.80
8	d	40	PHE	N-CA-C	-6.49	105.34	113.20
1	G	296	ARG	CA-C-N	6.49	129.51	120.29
1	G	296	ARG	C-N-CA	6.49	129.51	120.29
7	V	605	ASN	CA-C-N	6.49	128.88	120.44
7	V	605	ASN	C-N-CA	6.49	128.88	120.44
8	g	267	HIS	ND1-CE1-NE2	6.49	114.89	108.40
8	h	367	LEU	N-CA-C	6.49	122.38	113.16
8	m	429	GLN	N-CA-C	6.49	119.35	111.82
1	C	739	THR	CA-C-O	6.49	127.52	120.58
8	b	187	ASN	CA-CB-CG	6.49	119.09	112.60
8	i	396	ASP	CA-CB-CG	6.49	119.09	112.60
8	k	112	GLU	N-CA-CB	6.49	120.41	110.61
8	a	204	VAL	CA-C-O	-6.49	112.49	121.51
8	k	432	ILE	N-CA-C	-6.49	104.53	110.82
2	D	466	ARG	NE-CZ-NH2	-6.49	113.36	119.20
1	E	695	TYR	CB-CG-CD1	6.49	130.53	120.80
2	H	755	ASP	CA-CB-CG	6.49	119.08	112.60
8	l	210	LEU	N-CA-C	-6.49	103.49	111.40
8	c	52	PHE	CA-C-N	6.48	131.67	121.56
8	c	52	PHE	C-N-CA	6.48	131.67	121.56
8	i	266	LEU	N-CA-C	-6.48	96.99	110.80
3	K	381	LYS	N-CA-C	-6.48	103.80	112.94
7	W	667	LEU	N-CA-C	6.48	118.00	111.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	S	62	PHE	O-C-N	6.48	128.99	122.12
8	g	98	GLY	N-CA-C	-6.48	101.64	111.10
1	A	236	PRO	CA-C-O	-6.48	114.01	121.98
1	M	677	GLY	CA-C-N	6.48	130.16	120.31
1	M	677	GLY	C-N-CA	6.48	130.16	120.31
6	P	60	SER	N-CA-C	-6.48	105.20	113.23
8	b	77	ILE	N-CA-C	-6.48	106.68	112.12
8	m	11	GLY	CA-C-O	-6.48	118.01	122.22
8	j	24	GLN	OE1-CD-NE2	6.48	129.08	122.60
1	M	834	HIS	CE1-NE2-CD2	-6.48	102.52	109.00
2	D	267	MET	CA-C-O	6.47	127.41	120.55
2	D	452	VAL	O-C-N	-6.47	116.95	122.65
8	g	352	GLY	CA-C-N	6.47	127.93	119.84
8	g	352	GLY	C-N-CA	6.47	127.93	119.84
8	i	381	HIS	CB-CG-CD2	-6.47	122.78	131.20
8	l	104	TRP	CB-CG-CD1	-6.47	117.19	126.90
1	A	443	GLN	O-C-N	-6.47	113.82	122.43
2	F	594	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
4	J	498	PHE	CA-CB-CG	-6.47	107.33	113.80
8	d	404	PHE	CA-C-O	6.47	129.01	120.98
8	f	241	THR	N-CA-C	-6.47	105.68	112.93
1	E	629	ILE	CA-C-N	6.47	130.52	120.75
1	E	629	ILE	C-N-CA	6.47	130.52	120.75
4	J	283	PHE	CA-CB-CG	6.47	120.27	113.80
3	K	35	HIS	CE1-NE2-CD2	-6.47	102.53	109.00
8	e	180	HIS	ND1-CE1-NE2	6.47	114.87	108.40
8	k	277	THR	N-CA-CB	6.47	120.65	110.56
2	F	699	VAL	CA-C-O	6.47	127.63	120.71
2	N	862	VAL	CA-CB-CG2	-6.47	99.40	110.40
9	o	16	ASP	CA-C-O	-6.47	114.04	120.70
2	N	746	ILE	CA-C-O	-6.47	113.87	121.05
8	b	245	TYR	CA-C-N	6.47	126.85	119.93
8	b	245	TYR	C-N-CA	6.47	126.85	119.93
8	g	405	LEU	O-C-N	6.47	129.83	122.20
8	j	230	GLN	CB-CG-CD	-6.47	101.61	112.60
1	M	547	PRO	CA-C-N	6.46	131.64	120.58
1	M	547	PRO	C-N-CA	6.46	131.64	120.58
8	d	132	LEU	O-C-N	-6.46	115.48	123.04
8	k	200	ASP	CA-CB-CG	6.46	119.06	112.60
8	m	371	HIS	CB-CG-CD2	-6.46	122.80	131.20
5	L	561	LEU	N-CA-C	-6.46	105.53	113.41
8	j	29	HIS	CE1-NE2-CD2	-6.46	102.54	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	453	GLY	N-CA-C	-6.46	100.48	111.27
5	L	1491	LEU	N-CA-CB	6.46	120.85	110.65
2	T	9	PRO	CA-C-N	6.46	128.84	120.44
2	T	9	PRO	C-N-CA	6.46	128.84	120.44
8	c	180	HIS	CA-CB-CG	6.46	120.26	113.80
1	C	739	THR	N-CA-C	-6.46	98.02	108.41
2	D	450	ASP	N-CA-C	6.46	124.08	109.81
5	L	32	LYS	N-CA-C	6.45	117.97	111.07
8	f	130	ASP	N-CA-C	-6.45	105.41	113.28
8	j	127	ASP	N-CA-C	-6.45	104.98	112.92
8	l	282	VAL	N-CA-C	-6.45	105.06	111.77
1	A	851	GLU	N-CA-C	-6.45	99.87	108.19
2	B	686	ASN	O-C-N	6.45	131.08	122.43
2	F	862	VAL	CA-CB-CG1	6.45	121.37	110.40
1	M	384	ALA	CA-C-O	-6.45	111.32	120.16
8	m	122	ILE	CA-C-O	-6.45	112.36	119.20
2	N	851	HIS	CE1-NE2-CD2	-6.45	102.55	109.00
8	k	199	ALA	N-CA-C	-6.45	99.50	109.24
2	D	698	GLY	CA-C-N	6.45	128.81	120.56
2	D	698	GLY	C-N-CA	6.45	128.81	120.56
3	K	256	GLN	N-CA-C	-6.45	99.66	109.85
8	l	21	PHE	CA-CB-CG	6.45	120.25	113.80
2	B	738	LEU	N-CA-C	-6.45	105.42	113.28
2	D	682	GLY	CA-C-N	6.45	129.44	120.29
2	D	682	GLY	C-N-CA	6.45	129.44	120.29
4	J	366	LYS	N-CA-C	-6.45	104.34	111.82
8	d	159	ASP	CA-CB-CG	6.45	119.05	112.60
1	G	319	SER	CA-C-N	6.45	130.11	120.31
1	G	319	SER	C-N-CA	6.45	130.11	120.31
2	H	779	ASP	CA-CB-CG	6.45	119.05	112.60
4	J	252	LEU	N-CA-CB	6.45	121.38	110.49
8	j	96	HIS	CB-CG-CD2	-6.45	122.82	131.20
8	j	325	GLN	CA-C-O	-6.45	113.57	121.11
2	F	514	SER	CA-C-N	6.44	126.67	119.32
2	F	514	SER	C-N-CA	6.44	126.67	119.32
4	J	419	VAL	N-CA-CB	6.44	114.56	110.50
8	f	381	HIS	ND1-CE1-NE2	6.44	114.84	108.40
8	h	115	HIS	CG-CD2-NE2	6.44	113.64	107.20
3	K	593	CYS	CA-C-O	-6.44	114.06	120.82
8	l	420	GLU	N-CA-C	6.44	119.29	111.82
4	J	467	PRO	CB-CA-C	-6.44	102.28	111.68
8	f	219	HIS	CG-CD2-NE2	6.44	113.64	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	n	340	ILE	CB-CA-C	-6.44	103.61	112.24
1	A	661	ASN	CA-CB-CG	-6.44	106.16	112.60
2	D	495	VAL	N-CA-C	-6.44	106.51	112.43
5	L	101	SER	N-CA-CB	6.44	119.93	109.69
8	e	249	MET	CA-C-O	6.44	127.35	120.46
1	A	753	VAL	N-CA-CB	6.43	120.23	110.58
1	G	399	ILE	N-CA-CB	6.43	120.01	111.90
8	l	156	ARG	CD-NE-CZ	-6.43	115.39	124.40
1	E	328	GLN	CA-C-N	6.43	126.19	119.05
1	E	328	GLN	C-N-CA	6.43	126.19	119.05
2	F	792	TYR	CA-C-N	6.43	128.90	120.28
2	F	792	TYR	C-N-CA	6.43	128.90	120.28
4	J	448	GLU	N-CA-CB	6.43	121.36	110.49
2	N	841	LYS	N-CA-C	6.43	119.11	111.71
8	a	132	LEU	CA-C-N	6.43	129.38	120.63
8	a	132	LEU	C-N-CA	6.43	129.38	120.63
8	c	408	PHE	CA-CB-CG	-6.43	107.37	113.80
8	j	363	LYS	CA-C-N	6.43	129.33	120.39
8	j	363	LYS	C-N-CA	6.43	129.33	120.39
2	O	78	HIS	CG-CD2-NE2	6.43	113.63	107.20
2	B	644	ASP	CA-C-N	6.43	131.97	121.87
2	B	644	ASP	C-N-CA	6.43	131.97	121.87
8	a	125	GLU	N-CA-C	-6.43	104.12	114.09
8	b	232	VAL	N-CA-C	-6.43	104.77	111.58
8	i	61	ILE	CA-C-N	6.43	127.87	119.84
8	i	61	ILE	C-N-CA	6.43	127.87	119.84
8	k	164	LYS	N-CA-C	6.43	119.55	110.23
1	A	468	CYS	CB-CA-C	6.42	122.83	110.17
2	B	498	ASP	N-CA-C	-6.42	103.78	112.26
5	L	318	GLY	CA-C-N	6.42	131.57	120.58
5	L	318	GLY	C-N-CA	6.42	131.57	120.58
8	a	180	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
8	j	52	PHE	CA-C-N	6.42	129.94	120.95
8	j	52	PHE	C-N-CA	6.42	129.94	120.95
3	I	580	HIS	CA-CB-CG	6.42	120.22	113.80
8	h	381	HIS	CE1-NE2-CD2	-6.42	102.58	109.00
1	C	256	LYS	CA-C-N	6.42	130.07	120.31
1	C	256	LYS	C-N-CA	6.42	130.07	120.31
2	B	558	MET	O-C-N	6.42	129.47	122.15
8	d	120	ASP	CA-C-O	6.42	125.79	118.47
8	b	215	THR	N-CA-C	-6.42	104.60	112.88
8	e	12	GLN	CA-C-O	-6.42	113.62	120.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	622	SER	CA-C-O	-6.42	113.62	120.42
8	d	425	ARG	NE-CZ-NH2	-6.42	113.43	119.20
7	W	646	ARG	O-C-N	-6.41	115.46	122.07
8	b	245	TYR	N-CA-C	-6.41	102.00	110.40
8	c	136	VAL	CB-CA-C	6.41	120.32	110.96
8	d	208	THR	CA-CB-CG2	-6.41	99.60	110.50
9	r	16	ASP	N-CA-C	6.41	118.35	111.36
8	b	344	LYS	CA-C-N	6.41	129.51	120.28
8	b	344	LYS	C-N-CA	6.41	129.51	120.28
1	C	518	TYR	CA-CB-CG	-6.41	102.36	113.90
2	H	342	HIS	CE1-NE2-CD2	-6.41	102.59	109.00
3	K	115	PRO	N-CA-CB	-6.41	96.52	103.25
2	F	668	ARG	NE-CZ-NH1	6.41	127.91	121.50
2	N	499	GLN	N-CA-C	-6.41	97.15	110.80
8	b	392	CYS	N-CA-C	-6.41	104.38	111.36
8	d	274	THR	CA-CB-OG1	6.41	119.21	109.60
8	d	320	ILE	CA-C-N	6.41	131.84	123.00
8	d	320	ILE	C-N-CA	6.41	131.84	123.00
2	B	627	VAL	O-C-N	-6.41	116.58	122.79
4	J	260	ILE	N-CA-CB	6.41	117.51	110.53
5	L	1439	SER	N-CA-CB	6.41	119.36	110.07
2	O	38	VAL	N-CA-CB	6.41	120.19	110.58
8	g	426	GLU	CA-C-N	6.41	129.52	120.42
8	g	426	GLU	C-N-CA	6.41	129.52	120.42
8	i	412	ASP	CA-CB-CG	6.41	119.01	112.60
2	F	883	GLU	N-CA-C	6.41	120.30	112.23
3	K	20	ASN	N-CA-C	-6.41	97.94	108.76
3	K	506	SER	N-CA-C	-6.41	105.10	113.17
8	a	225	PHE	CA-C-N	6.41	133.78	121.54
8	a	225	PHE	C-N-CA	6.41	133.78	121.54
2	H	288	ASP	N-CA-C	-6.40	104.16	112.23
2	R	77	LEU	CA-C-N	6.40	129.15	120.38
2	R	77	LEU	C-N-CA	6.40	129.15	120.38
2	D	719	TYR	CA-CB-CG	6.40	125.43	113.90
3	I	298	SER	CA-C-N	-6.40	116.70	122.97
3	I	298	SER	C-N-CA	-6.40	116.70	122.97
5	L	42	LEU	CA-C-O	6.40	127.75	120.90
1	A	238	VAL	CA-C-N	6.40	129.77	120.11
1	A	238	VAL	C-N-CA	6.40	129.77	120.11
1	C	386	TYR	N-CA-C	-6.40	104.39	111.82
2	N	408	PRO	CB-CA-C	-6.40	103.82	112.97
2	N	581	LYS	CA-C-O	-6.40	112.13	118.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	T	56	GLU	CA-C-O	-6.40	114.10	120.82
8	c	202	VAL	CA-C-N	6.40	131.94	123.11
8	c	202	VAL	C-N-CA	6.40	131.94	123.11
8	c	420	GLU	CA-C-O	6.40	127.33	119.97
8	f	176	ASP	N-CA-C	-6.40	104.72	113.30
8	h	93	LEU	CA-C-N	6.40	129.91	120.95
8	h	93	LEU	C-N-CA	6.40	129.91	120.95
8	g	75	HIS	ND1-CE1-NE2	6.40	114.80	108.40
8	i	213	ILE	CA-C-N	6.40	131.41	120.72
8	i	213	ILE	C-N-CA	6.40	131.41	120.72
2	D	420	LEU	N-CA-CB	6.40	119.10	110.59
1	E	631	ARG	CA-C-N	6.40	130.04	120.31
1	E	631	ARG	C-N-CA	6.40	130.04	120.31
2	F	388	GLN	CA-C-N	6.40	129.71	122.67
2	F	388	GLN	C-N-CA	6.40	129.71	122.67
8	k	371	HIS	ND1-CE1-NE2	6.40	114.80	108.40
2	F	701	HIS	CB-CG-CD2	-6.40	122.89	131.20
8	k	315	HIS	CE1-NE2-CD2	-6.40	102.60	109.00
9	p	50	LEU	CA-C-O	-6.39	113.64	120.42
1	C	218	GLU	CA-C-O	6.39	127.20	120.42
1	C	314	ARG	NE-CZ-NH1	6.39	127.89	121.50
5	L	427	GLY	CA-C-N	6.39	131.55	120.68
5	L	427	GLY	C-N-CA	6.39	131.55	120.68
8	e	407	GLN	CB-CG-CD	6.39	123.47	112.60
2	B	674	TYR	N-CA-C	-6.39	105.31	113.23
8	i	36	ILE	N-CA-C	-6.39	98.42	107.75
8	i	407	GLN	CA-C-O	6.39	127.38	119.78
2	D	372	ASP	CA-C-O	-6.39	111.41	120.16
2	H	363	LEU	N-CA-CB	6.38	120.40	110.44
3	I	294	SER	CA-C-O	6.38	128.21	121.19
3	I	450	ALA	CA-C-O	-6.38	114.22	122.14
8	c	303	VAL	N-CA-C	6.38	117.99	109.37
8	b	98	GLY	CA-C-N	6.38	126.05	119.92
8	b	98	GLY	C-N-CA	6.38	126.05	119.92
8	b	342	GLU	N-CA-C	-6.38	104.19	112.23
8	d	183	VAL	N-CA-C	-6.38	106.29	112.29
5	L	513	SER	CA-C-N	6.38	129.82	120.82
5	L	513	SER	C-N-CA	6.38	129.82	120.82
1	M	839	LEU	CA-C-N	6.38	130.01	120.31
1	M	839	LEU	C-N-CA	6.38	130.01	120.31
8	d	130	ASP	CA-CB-CG	6.38	118.98	112.60
1	A	241	GLN	CA-C-N	6.38	133.72	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	241	GLN	C-N-CA	6.38	133.72	121.54
1	A	846	SER	N-CA-C	-6.38	104.55	112.90
6	P	81	ASP	CA-CB-CG	6.38	118.98	112.60
2	R	79	ARG	CA-C-N	6.38	128.73	120.44
2	R	79	ARG	C-N-CA	6.38	128.73	120.44
8	e	86	TYR	CA-C-N	6.38	132.86	121.76
8	e	86	TYR	C-N-CA	6.38	132.86	121.76
8	f	83	ALA	N-CA-C	-6.38	104.65	112.88
1	A	464	HIS	CG-CD2-NE2	6.38	113.58	107.20
1	C	391	GLU	CA-C-O	-6.38	114.13	120.70
2	F	390	ARG	N-CA-C	-6.38	105.43	113.72
4	J	558	ALA	CA-C-N	6.38	128.32	120.22
4	J	558	ALA	C-N-CA	6.38	128.32	120.22
6	P	163	VAL	CA-C-N	6.38	127.34	120.13
6	P	163	VAL	C-N-CA	6.38	127.34	120.13
2	S	12	LEU	CA-C-O	-6.38	114.13	120.70
2	S	15	ASN	CA-CB-CG	-6.38	106.22	112.60
2	B	314	ARG	NE-CZ-NH2	6.37	124.94	119.20
8	m	312	GLN	N-CA-C	-6.37	104.82	112.59
1	G	863	PHE	CA-CB-CG	-6.37	107.43	113.80
4	J	245	HIS	CE1-NE2-CD2	-6.37	102.63	109.00
8	h	286	ARG	N-CA-C	-6.37	104.13	112.41
8	m	427	ILE	N-CA-C	6.37	117.11	110.62
8	f	45	THR	N-CA-C	-6.37	95.91	107.75
7	U	641	GLN	N-CA-C	-6.37	104.26	111.07
8	e	237	SER	CA-C-N	6.37	129.99	120.31
8	e	237	SER	C-N-CA	6.37	129.99	120.31
2	B	332	LYS	CA-C-O	6.36	127.30	120.55
3	I	633	ARG	N-CA-C	-6.36	104.27	111.14
2	T	49	ARG	N-CA-C	6.36	120.19	111.54
2	T	63	VAL	N-CA-C	6.36	117.11	110.62
8	d	84	ASN	OD1-CG-ND2	-6.36	116.24	122.60
8	k	58	GLU	N-CA-C	6.36	120.17	111.39
8	k	352	GLY	O-C-N	-6.36	115.41	121.77
2	D	833	GLN	CA-C-N	6.36	131.49	120.68
2	D	833	GLN	C-N-CA	6.36	131.49	120.68
2	F	566	LEU	CA-C-N	6.36	131.85	122.82
2	F	566	LEU	C-N-CA	6.36	131.85	122.82
4	J	215	HIS	CG-CD2-NE2	6.36	113.56	107.20
4	J	949	ILE	N-CA-CB	6.36	117.84	110.65
3	K	137	MET	CG-SD-CE	-6.36	86.91	100.90
2	R	37	ARG	CA-C-N	6.36	128.57	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	R	37	ARG	C-N-CA	6.36	128.57	120.56
8	n	70	GLU	CA-C-N	6.36	127.51	120.45
8	n	70	GLU	C-N-CA	6.36	127.51	120.45
1	C	843	SER	N-CA-C	6.36	120.24	112.23
1	G	314	ARG	O-C-N	6.36	128.64	122.03
3	K	260	ARG	N-CA-CB	6.36	120.53	110.55
1	C	763	ARG	NH1-CZ-NH2	6.36	127.57	119.30
1	E	434	VAL	N-CA-C	-6.36	99.43	108.65
3	K	517	GLN	OE1-CD-NE2	6.36	128.96	122.60
6	P	200	PHE	CA-CB-CG	-6.36	107.44	113.80
7	U	606	MET	N-CA-C	6.36	118.21	111.28
8	h	213	ILE	CA-C-N	6.36	131.34	120.72
8	h	213	ILE	C-N-CA	6.36	131.34	120.72
1	C	212	GLN	CB-CA-C	-6.36	98.47	110.67
1	E	446	ALA	N-CA-C	6.36	118.29	111.36
2	H	429	LEU	N-CA-CB	6.35	119.41	110.07
8	m	315	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
1	C	622	LYS	CA-C-N	6.35	129.22	120.39
1	C	622	LYS	C-N-CA	6.35	129.22	120.39
1	E	570	ASP	N-CA-C	-6.35	104.15	112.41
2	H	640	ASP	CA-CB-CG	6.35	118.95	112.60
8	a	316	CYS	CB-CA-C	-6.35	98.53	109.65
2	F	715	HIS	CE1-NE2-CD2	-6.35	102.65	109.00
2	F	337	LEU	CA-C-N	6.35	129.96	120.31
2	F	337	LEU	C-N-CA	6.35	129.96	120.31
1	M	698	PHE	CA-CB-CG	6.35	120.15	113.80
6	P	248	ILE	N-CA-C	-6.35	97.19	107.28
7	V	627	VAL	CA-C-N	6.35	129.31	120.29
7	V	627	VAL	C-N-CA	6.35	129.31	120.29
1	A	261	ARG	CA-CB-CG	6.35	126.80	114.10
1	A	641	PHE	CA-C-N	6.35	129.30	120.29
1	A	641	PHE	C-N-CA	6.35	129.30	120.29
1	C	309	LEU	CA-C-O	6.35	126.69	119.27
3	K	102	GLN	OE1-CD-NE2	-6.35	116.25	122.60
3	K	416	LEU	CA-C-O	-6.34	114.17	121.47
1	G	471	ALA	N-CA-CB	6.34	121.21	110.49
9	p	44	GLY	CA-C-N	6.34	129.61	120.98
9	p	44	GLY	C-N-CA	6.34	129.61	120.98
1	M	608	ALA	N-CA-CB	6.34	121.20	110.49
2	T	52	PHE	CA-CB-CG	-6.34	107.46	113.80
7	W	667	LEU	CA-C-N	6.34	131.31	120.72
7	W	667	LEU	C-N-CA	6.34	131.31	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	641	TYR	CA-C-N	6.34	130.85	122.42
2	D	641	TYR	C-N-CA	6.34	130.85	122.42
8	b	130	ASP	CA-CB-CG	-6.34	106.26	112.60
8	e	265	ARG	N-CA-C	-6.34	97.30	110.80
2	B	391	LYS	CA-C-O	6.34	128.10	120.81
3	I	17	PHE	CA-CB-CG	-6.34	107.46	113.80
1	C	723	SER	N-CA-C	6.34	118.27	111.36
1	M	501	PHE	CA-CB-CG	6.34	120.14	113.80
7	W	664	ASN	CA-CB-CG	6.34	118.94	112.60
8	a	334	HIS	CG-CD2-NE2	6.34	113.54	107.20
8	h	369	SER	CA-CB-OG	6.34	123.77	111.10
1	M	476	TYR	CA-C-O	6.33	129.57	120.51
8	h	412	ASP	CA-C-N	6.33	131.23	122.93
8	h	412	ASP	C-N-CA	6.33	131.23	122.93
2	B	768	ARG	NE-CZ-NH1	-6.33	115.17	121.50
1	G	825	ASN	CA-C-N	6.33	129.94	120.31
1	G	825	ASN	C-N-CA	6.33	129.94	120.31
3	I	552	ASP	CA-CB-CG	6.33	118.93	112.60
4	J	500	HIS	CA-C-O	6.33	128.08	120.99
1	M	427	TRP	CA-C-N	6.33	132.63	121.80
1	M	427	TRP	C-N-CA	6.33	132.63	121.80
1	M	626	SER	O-C-N	6.33	131.11	122.37
8	c	76	SER	CA-C-N	6.33	130.40	121.53
8	c	76	SER	C-N-CA	6.33	130.40	121.53
1	C	628	ILE	N-CA-C	6.33	116.50	110.42
5	L	74	MET	CG-SD-CE	-6.33	86.97	100.90
8	g	169	TYR	CA-C-N	6.33	130.56	121.50
8	g	169	TYR	C-N-CA	6.33	130.56	121.50
8	i	335	LYS	CA-C-N	6.33	129.28	120.29
8	i	335	LYS	C-N-CA	6.33	129.28	120.29
3	I	590	HIS	N-CA-C	-6.33	104.25	112.23
1	C	324	TRP	CA-CB-CG	6.33	125.62	113.60
1	M	302	TYR	N-CA-CB	-6.33	100.47	110.28
8	b	419	ASP	N-CA-CB	-6.33	99.78	110.41
1	A	849	ASP	CA-CB-CG	6.33	118.93	112.60
4	J	782	ALA	CB-CA-C	-6.33	99.31	109.75
2	B	632	THR	CA-C-O	-6.33	113.85	120.55
8	c	318	ILE	CB-CA-C	6.33	117.11	110.91
4	J	929	LEU	CA-C-O	-6.32	113.72	120.42
5	L	406	THR	N-CA-C	-6.32	103.91	111.69
8	a	225	PHE	O-C-N	6.32	131.04	122.57
8	h	77	ILE	N-CA-C	-6.32	107.70	113.71

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	h	355	SER	O-C-N	-6.32	116.21	123.42
8	k	160	ARG	NE-CZ-NH2	-6.32	113.51	119.20
1	G	341	ALA	N-CA-CB	6.32	120.08	110.28
8	a	80	SER	CB-CA-C	-6.32	103.05	110.76
2	B	301	ASN	O-C-N	-6.32	113.74	122.46
2	B	746	ILE	N-CA-C	6.32	117.07	110.62
1	C	209	LEU	CA-C-N	6.32	125.89	119.19
1	C	209	LEU	C-N-CA	6.32	125.89	119.19
2	D	497	HIS	N-CA-C	-6.32	98.60	108.90
2	F	635	ASP	CA-CB-CG	6.32	118.92	112.60
7	V	606	MET	O-C-N	6.32	128.58	122.07
8	d	361	SER	O-C-N	-6.32	116.40	123.48
8	f	427	ILE	CA-C-N	6.32	128.53	120.56
8	f	427	ILE	C-N-CA	6.32	128.53	120.56
8	k	51	PHE	CA-C-N	6.32	132.88	122.07
8	k	51	PHE	C-N-CA	6.32	132.88	122.07
3	K	171	ALA	CA-C-O	6.32	127.12	120.42
8	g	139	HIS	N-CA-C	-6.32	100.02	109.94
8	g	279	ASP	CA-CB-CG	-6.32	106.28	112.60
8	h	69	LEU	CA-C-O	-6.32	114.19	120.82
8	l	303	VAL	N-CA-C	6.32	117.89	109.37
9	q	39	ARG	N-CA-C	6.32	117.83	111.07
1	C	840	ASP	CA-C-N	6.31	132.19	121.14
1	C	840	ASP	C-N-CA	6.31	132.19	121.14
8	e	224	SER	CA-C-O	-6.31	114.05	121.44
3	I	414	LEU	N-CA-C	-6.31	99.55	108.96
8	a	342	GLU	CB-CG-CD	-6.31	101.87	112.60
8	l	175	GLN	N-CA-C	-6.31	105.33	113.16
8	n	198	ASN	N-CA-C	-6.31	103.25	111.71
9	q	34	LEU	N-CA-C	6.31	118.16	111.28
8	f	160	ARG	CA-C-N	6.31	129.59	122.59
8	f	160	ARG	C-N-CA	6.31	129.59	122.59
8	n	334	HIS	CE1-NE2-CD2	-6.31	102.69	109.00
4	J	280	LEU	CA-C-N	6.31	132.95	122.54
4	J	280	LEU	C-N-CA	6.31	132.95	122.54
8	i	70	GLU	N-CA-CB	6.31	119.22	110.01
2	D	392	GLY	N-CA-C	6.31	122.86	112.89
1	E	363	PHE	CA-CB-CG	-6.31	107.49	113.80
1	M	346	LYS	N-CA-CB	6.31	119.06	110.10
2	N	775	ARG	CA-C-O	6.31	127.13	119.31
2	D	571	ASP	CA-CB-CG	6.30	118.90	112.60
1	E	364	GLY	O-C-N	-6.30	116.07	122.19

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	757	PHE	CA-CB-CG	6.30	120.10	113.80
8	k	81	PRO	O-C-N	6.30	130.88	122.30
8	k	304	MET	N-CA-C	-6.30	106.29	112.97
8	n	299	GLN	O-C-N	-6.30	115.55	121.35
1	G	244	SER	CA-C-O	6.30	127.47	120.92
1	G	564	ASN	O-C-N	-6.30	114.03	122.22
3	K	560	HIS	CE1-NE2-CD2	-6.30	102.70	109.00
2	Q	57	LYS	CB-CA-C	6.30	121.25	110.79
8	a	230	GLN	CA-C-N	6.30	129.89	120.31
8	a	230	GLN	C-N-CA	6.30	129.89	120.31
8	g	223	PRO	CA-C-O	-6.30	114.25	121.56
2	R	89	ASN	N-CA-C	-6.30	102.73	110.61
3	I	194	GLY	N-CA-C	-6.30	106.45	115.64
4	J	900	ILE	CA-CB-CG1	6.30	121.11	110.40
2	N	812	ARG	NE-CZ-NH1	6.30	127.80	121.50
6	P	199	SER	N-CA-CB	6.30	121.85	111.08
8	a	247	GLY	CA-C-O	-6.30	114.25	121.49
1	A	290	ALA	CA-C-O	-6.29	112.73	119.97
8	c	75	HIS	CG-CD2-NE2	6.29	113.49	107.20
1	G	555	GLU	CA-C-O	6.29	127.16	119.11
3	I	327	SER	N-CA-C	6.29	119.12	111.82
5	L	530	GLU	O-C-N	-6.29	114.80	120.71
2	N	839	ILE	CA-C-O	-6.29	114.47	118.69
7	W	633	PHE	CB-CA-C	-6.29	101.00	110.88
8	a	98	GLY	CA-C-N	6.29	130.36	121.30
8	a	98	GLY	C-N-CA	6.29	130.36	121.30
1	E	239	GLY	O-C-N	-6.29	116.15	122.19
5	L	325	LEU	N-CA-C	6.29	117.80	111.07
8	d	168	THR	N-CA-C	-6.29	99.15	109.40
8	d	331	THR	N-CA-C	-6.29	104.92	112.59
8	n	73	VAL	CA-C-N	6.29	130.51	121.02
8	n	73	VAL	C-N-CA	6.29	130.51	121.02
2	H	254	LEU	N-CA-CB	6.29	119.47	110.16
5	L	10	ASP	CA-C-N	6.29	128.70	120.28
5	L	10	ASP	C-N-CA	6.29	128.70	120.28
8	j	161	TYR	CA-C-O	-6.29	111.55	120.16
8	n	181	VAL	CB-CA-C	6.29	120.21	110.28
1	E	543	ASP	CA-CB-CG	6.28	118.88	112.60
3	I	121	HIS	CB-CG-CD2	-6.28	123.03	131.20
8	f	57	ASP	CA-CB-CG	6.28	118.88	112.60
8	i	181	VAL	O-C-N	-6.28	116.41	123.20
2	B	821	THR	CA-C-N	6.28	129.86	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	821	THR	C-N-CA	6.28	129.86	120.31
1	E	400	ASN	OD1-CG-ND2	-6.28	116.32	122.60
1	G	532	ASP	CA-CB-CG	-6.28	106.32	112.60
8	a	225	PHE	CA-C-O	-6.28	114.20	120.98
8	j	180	HIS	CE1-NE2-CD2	-6.28	102.72	109.00
8	g	121	ILE	CA-C-N	6.28	132.05	122.69
8	g	121	ILE	C-N-CA	6.28	132.05	122.69
3	K	180	HIS	N-CA-C	-6.28	104.88	112.54
8	e	420	GLU	N-CA-C	6.28	119.10	111.82
2	B	311	SER	CA-C-N	6.28	133.53	121.54
2	B	311	SER	C-N-CA	6.28	133.53	121.54
2	D	725	VAL	CA-CB-CG1	6.28	121.07	110.40
8	f	309	ARG	N-CA-C	-6.28	105.26	113.17
4	J	986	HIS	CE1-NE2-CD2	-6.27	102.73	109.00
1	E	636	ARG	NE-CZ-NH2	-6.27	113.56	119.20
2	D	431	ARG	NE-CZ-NH2	-6.27	113.56	119.20
3	K	324	ASP	CA-C-O	6.27	127.18	119.97
8	e	193	LYS	O-C-N	-6.27	115.00	122.15
8	m	252	ASP	N-CA-C	-6.27	101.24	110.52
2	B	729	SER	N-CA-C	-6.27	106.17	113.88
1	C	298	LEU	CA-C-N	6.27	128.18	120.22
1	C	298	LEU	C-N-CA	6.27	128.18	120.22
2	D	713	PHE	O-C-N	-6.27	114.08	122.23
2	F	857	VAL	CA-C-O	-6.27	113.86	120.57
1	G	324	TRP	N-CA-C	6.27	117.78	111.07
8	b	77	ILE	CB-CA-C	-6.27	104.77	110.91
5	L	1371	MET	O-C-N	6.27	131.11	122.46
2	B	558	MET	CA-C-O	-6.26	113.78	120.42
2	D	378	LYS	O-C-N	6.26	129.29	122.15
1	E	279	ASN	CA-CB-CG	6.26	118.86	112.60
3	I	177	ALA	N-CA-C	6.26	119.09	111.82
7	X	634	HIS	CA-CB-CG	6.26	120.06	113.80
8	b	100	ALA	CA-C-N	6.26	132.98	121.70
8	b	100	ALA	C-N-CA	6.26	132.98	121.70
9	q	54	ILE	CA-C-O	-6.26	114.44	120.95
1	A	306	ILE	CB-CA-C	-6.26	103.58	112.22
5	L	536	ILE	N-CA-CB	6.26	119.54	110.52
8	g	147	SER	N-CA-C	-6.26	104.69	112.90
8	g	265	ARG	N-CA-CB	6.26	121.08	110.49
8	k	19	PHE	CA-C-O	6.26	127.06	120.42
2	D	429	LEU	CA-C-O	-6.26	114.23	120.80
2	F	751	ASP	CA-CB-CG	6.26	118.86	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	499	GLN	CA-C-N	6.26	129.09	120.39
2	H	499	GLN	C-N-CA	6.26	129.09	120.39
2	B	660	LEU	CA-C-O	-6.26	113.79	120.42
1	C	568	PHE	N-CA-C	-6.26	105.77	113.41
1	E	365	TYR	CA-C-N	6.26	131.36	122.72
1	E	365	TYR	C-N-CA	6.26	131.36	122.72
2	F	310	ARG	CB-CG-CD	6.26	125.69	111.30
2	D	630	GLY	N-CA-C	-6.26	104.72	115.61
6	P	150	GLY	CA-C-O	-6.26	117.03	122.16
8	c	159	ASP	CA-CB-CG	6.26	118.86	112.60
8	h	202	VAL	CA-C-O	-6.26	115.51	121.64
5	L	1601	PHE	CB-CG-CD2	6.25	131.33	120.70
8	n	245	TYR	CA-C-N	6.25	126.62	119.93
8	n	245	TYR	C-N-CA	6.25	126.62	119.93
8	n	423	ASN	CA-C-O	6.25	127.05	120.42
2	O	67	ARG	CA-C-N	6.25	129.29	120.28
2	O	67	ARG	C-N-CA	6.25	129.29	120.28
6	P	161	HIS	CG-CD2-NE2	6.25	113.45	107.20
8	a	126	ALA	N-CA-C	-6.25	103.06	111.87
1	M	464	HIS	CG-CD2-NE2	6.25	113.45	107.20
8	a	6	ILE	N-CA-C	-6.25	98.86	107.99
8	e	240	THR	CA-C-N	6.25	129.81	120.31
8	e	240	THR	C-N-CA	6.25	129.81	120.31
1	E	682	ARG	N-CA-CB	6.25	119.41	110.16
8	h	135	PHE	O-C-N	-6.25	116.00	123.31
8	i	296	ARG	O-C-N	-6.25	114.84	122.34
1	E	245	PHE	CA-CB-CG	-6.25	107.55	113.80
3	I	640	ASP	CA-C-N	6.25	128.65	120.28
3	I	640	ASP	C-N-CA	6.25	128.65	120.28
3	K	570	GLN	N-CA-C	6.25	119.06	111.82
7	X	670	ASN	N-CA-C	-6.25	105.82	113.50
8	k	2	PRO	CA-C-N	6.25	131.85	122.67
8	k	2	PRO	C-N-CA	6.25	131.85	122.67
1	G	325	PHE	CA-CB-CG	6.25	120.05	113.80
1	C	444	LYS	CA-CB-CG	6.24	126.59	114.10
1	E	649	HIS	CA-C-N	6.24	129.29	120.42
1	E	649	HIS	C-N-CA	6.24	129.29	120.42
8	n	95	GLU	CA-C-N	6.24	131.75	121.39
8	n	95	GLU	C-N-CA	6.24	131.75	121.39
8	l	31	ILE	CA-C-N	6.24	130.15	120.60
8	l	31	ILE	C-N-CA	6.24	130.15	120.60
1	C	863	PHE	CA-CB-CG	-6.24	107.56	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	519	ALA	N-CA-C	-6.24	105.50	113.23
2	T	59	LYS	CA-C-N	6.24	128.64	120.28
2	T	59	LYS	C-N-CA	6.24	128.64	120.28
8	a	310	ASP	CA-CB-CG	-6.24	106.36	112.60
8	n	412	ASP	CA-CB-CG	6.24	118.84	112.60
2	B	309	GLN	N-CA-C	-6.24	104.37	112.23
2	F	536	ALA	CA-C-O	-6.24	112.80	119.97
2	F	802	ARG	N-CA-CB	6.24	119.39	110.16
1	G	617	PHE	CA-C-O	-6.24	114.02	121.56
4	J	354	PHE	CA-C-N	6.24	129.26	120.28
4	J	354	PHE	C-N-CA	6.24	129.26	120.28
8	f	166	VAL	CB-CA-C	6.24	119.91	110.62
8	h	138	CYS	N-CA-CB	-6.24	101.18	110.60
8	j	340	ILE	N-CA-C	-6.24	104.20	111.00
2	O	19	ARG	N-CA-C	6.23	117.87	111.14
8	f	267	HIS	CB-CG-CD2	-6.23	123.10	131.20
8	l	394	GLN	O-C-N	-6.23	113.77	122.37
2	H	632	THR	CA-C-O	-6.23	114.28	120.82
5	L	581	GLU	N-CA-C	-6.23	99.57	109.23
8	l	311	ARG	CA-C-O	6.23	127.49	119.95
1	A	476	TYR	N-CA-C	-6.23	98.47	109.06
2	D	473	PHE	CA-CB-CG	6.23	120.03	113.80
2	H	547	VAL	CA-CB-CG1	6.23	120.99	110.40
3	I	33	PHE	N-CA-CB	6.23	119.38	110.16
4	J	984	ASN	OD1-CG-ND2	6.23	128.83	122.60
2	N	715	HIS	N-CA-CB	6.23	119.04	110.01
2	S	31	GLN	CA-C-N	6.23	128.54	120.44
2	S	31	GLN	C-N-CA	6.23	128.54	120.44
8	j	49	ASP	CA-CB-CG	6.23	118.83	112.60
2	B	388	GLN	OE1-CD-NE2	6.23	128.83	122.60
8	a	59	HIS	ND1-CE1-NE2	6.23	114.63	108.40
8	c	373	VAL	O-C-N	-6.23	115.89	122.68
8	h	256	LEU	CA-C-N	6.23	130.98	120.64
8	h	256	LEU	C-N-CA	6.23	130.98	120.64
3	I	415	ASN	N-CA-C	-6.22	98.83	108.42
3	K	263	MET	N-CA-C	-6.22	106.00	113.97
2	B	416	HIS	CA-CB-CG	-6.22	107.58	113.80
2	F	498	ASP	N-CA-C	-6.22	97.03	107.80
3	K	116	HIS	CA-C-N	6.22	129.55	120.71
3	K	116	HIS	C-N-CA	6.22	129.55	120.71
2	S	109	ASN	CA-CB-CG	-6.22	106.38	112.60
8	b	115	HIS	CB-CG-CD2	-6.22	123.11	131.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	c	30	GLY	O-C-N	-6.22	116.91	122.57
8	g	172	PHE	CA-CB-CG	-6.22	107.58	113.80
8	h	351	TRP	CB-CG-CD2	-6.22	118.09	126.80
1	E	292	GLY	N-CA-C	-6.22	106.63	114.16
1	M	464	HIS	CE1-NE2-CD2	-6.22	102.78	109.00
8	a	184	GLN	CA-C-O	-6.22	111.64	120.16
8	g	75	HIS	CG-CD2-NE2	6.22	113.42	107.20
8	i	207	ASN	CA-CB-CG	6.22	118.82	112.60
8	k	401	ARG	N-CA-C	-6.22	105.45	113.16
9	t	40	LEU	N-CA-C	6.22	117.72	111.07
8	f	216	ASP	N-CA-C	-6.22	106.23	113.88
1	A	260	ASN	OD1-CG-ND2	6.22	128.82	122.60
1	G	395	TYR	N-CA-CB	6.22	119.17	110.90
5	L	1433	ASN	CA-C-N	6.22	127.61	119.84
5	L	1433	ASN	C-N-CA	6.22	127.61	119.84
2	T	61	GLU	N-CA-CB	6.22	119.26	110.12
3	I	90	CYS	N-CA-CB	6.21	119.36	110.16
3	I	281	GLU	N-CA-C	6.21	118.13	111.36
8	d	367	LEU	CA-C-N	6.21	127.61	119.84
8	d	367	LEU	C-N-CA	6.21	127.61	119.84
8	f	2	PRO	CA-C-N	6.21	131.03	121.83
8	f	2	PRO	C-N-CA	6.21	131.03	121.83
8	f	358	VAL	O-C-N	-6.21	116.47	123.18
8	h	22	TRP	N-CA-CB	6.21	119.87	110.30
5	L	317	ALA	N-CA-C	6.21	121.94	113.37
6	P	246	GLN	OE1-CD-NE2	6.21	128.81	122.60
2	D	296	LEU	N-CA-C	-6.21	105.83	113.41
5	L	233	ASP	N-CA-CB	6.21	122.24	111.00
8	h	351	TRP	CB-CG-CD1	6.21	136.22	126.90
8	i	298	LEU	N-CA-CB	6.21	120.36	110.73
1	E	684	ARG	NE-CZ-NH1	6.21	127.71	121.50
1	G	409	GLU	CA-C-O	-6.21	113.43	120.32
8	m	174	ASN	OD1-CG-ND2	6.21	128.81	122.60
3	K	139	VAL	N-CA-C	6.21	116.36	110.53
8	n	271	THR	CA-C-N	6.21	127.36	121.46
8	n	271	THR	C-N-CA	6.21	127.36	121.46
3	I	510	ASP	CA-CB-CG	-6.21	106.39	112.60
2	N	336	ARG	CA-C-N	6.21	128.60	120.28
2	N	336	ARG	C-N-CA	6.21	128.60	120.28
8	g	106	SER	N-CA-CB	6.20	119.19	110.07
8	i	310	ASP	N-CA-C	-6.20	105.58	113.02
1	A	220	LEU	CA-C-O	6.20	127.10	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	107	LEU	CA-C-O	6.20	127.00	119.31
8	f	281	SER	N-CA-C	-6.20	105.29	112.92
1	M	841	LYS	CA-C-N	6.20	129.74	120.31
1	M	841	LYS	C-N-CA	6.20	129.74	120.31
8	k	56	ASP	CA-CB-CG	6.20	118.80	112.60
2	H	407	ASP	CA-CB-CG	-6.20	106.40	112.60
8	i	315	HIS	CB-CG-CD2	-6.20	123.14	131.20
6	P	194	THR	CA-C-O	-6.20	112.84	119.97
6	P	223	PHE	CA-CB-CG	-6.20	107.60	113.80
8	d	299	GLN	CA-C-O	6.20	125.27	119.76
4	J	743	GLU	CA-C-N	6.19	131.16	122.36
4	J	743	GLU	C-N-CA	6.19	131.16	122.36
2	O	18	CYS	N-CA-CB	6.19	118.99	110.01
8	d	260	LEU	CA-C-O	6.19	126.90	119.59
3	K	418	ILE	CA-CB-CG1	6.19	120.93	110.40
8	n	56	ASP	N-CA-C	-6.19	97.61	110.80
1	A	681	LEU	CA-C-N	6.19	128.49	120.44
1	A	681	LEU	C-N-CA	6.19	128.49	120.44
4	J	694	TYR	CA-C-N	6.19	129.72	120.31
4	J	694	TYR	C-N-CA	6.19	129.72	120.31
5	L	1430	GLU	O-C-N	-6.19	115.98	123.10
2	T	89	ASN	N-CA-CB	6.19	120.95	110.49
7	W	611	LEU	N-CA-CB	6.19	119.87	110.28
8	h	4	GLU	CA-C-N	6.19	131.09	123.10
8	h	4	GLU	C-N-CA	6.19	131.09	123.10
8	k	162	PRO	CA-C-N	6.19	128.49	120.44
8	k	162	PRO	C-N-CA	6.19	128.49	120.44
8	n	71	PRO	N-CA-C	-6.19	106.61	114.35
1	G	642	ARG	NE-CZ-NH2	-6.19	113.63	119.20
8	l	24	GLN	CB-CG-CD	6.19	123.12	112.60
2	B	452	VAL	CA-C-N	6.19	133.11	121.97
2	B	452	VAL	C-N-CA	6.19	133.11	121.97
2	F	478	GLN	CA-CB-CG	6.19	126.48	114.10
3	I	569	ALA	CA-C-N	6.19	129.71	120.31
3	I	569	ALA	C-N-CA	6.19	129.71	120.31
2	R	41	SER	CA-C-N	6.19	129.61	120.95
2	R	41	SER	C-N-CA	6.19	129.61	120.95
8	g	59	HIS	CG-CD2-NE2	6.19	113.39	107.20
8	g	198	ASN	N-CA-C	-6.19	103.03	112.99
8	a	182	VAL	N-CA-C	-6.19	106.71	112.83
8	m	83	ALA	N-CA-C	-6.19	105.01	113.30
2	T	20	ILE	N-CA-C	6.18	117.74	111.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	m	40	PHE	CB-CA-C	-6.18	98.36	110.11
4	J	711	LEU	N-CA-C	6.18	117.68	111.07
1	A	710	LYS	CA-C-N	6.18	129.70	120.31
1	A	710	LYS	C-N-CA	6.18	129.70	120.31
1	E	629	ILE	N-CA-CB	6.18	120.37	112.34
2	F	802	ARG	NE-CZ-NH2	6.18	124.76	119.20
2	H	294	SER	CB-CA-C	-6.18	99.39	110.70
8	i	229	ASN	CA-CB-CG	6.18	118.78	112.60
8	k	314	ASN	N-CA-C	-6.18	104.23	112.94
8	e	159	ASP	N-CA-C	-6.18	104.51	114.09
8	l	372	ARG	NE-CZ-NH1	6.18	127.68	121.50
2	F	318	LEU	CA-C-N	6.18	129.19	120.42
2	F	318	LEU	C-N-CA	6.18	129.19	120.42
4	J	445	ASN	CA-CB-CG	-6.18	106.42	112.60
5	L	1666	LEU	N-CA-C	6.18	118.98	111.82
8	c	323	ILE	N-CA-CB	6.18	118.44	111.21
8	g	381	HIS	CB-CG-ND1	6.18	131.97	122.70
1	C	240	ARG	NE-CZ-NH1	6.17	127.67	121.50
1	C	508	LEU	N-CA-CB	6.17	119.20	110.12
2	H	652	THR	CA-CB-OG1	6.17	118.86	109.60
5	L	1479	SER	CA-C-O	6.17	125.26	118.65
2	S	10	ASN	CA-CB-CG	6.17	118.77	112.60
8	d	115	HIS	CE1-NE2-CD2	-6.17	102.83	109.00
9	q	57	LEU	CA-C-N	6.17	128.47	120.44
9	q	57	LEU	C-N-CA	6.17	128.47	120.44
2	N	865	THR	CA-C-N	6.17	130.32	121.50
2	N	865	THR	C-N-CA	6.17	130.32	121.50
8	h	228	ILE	N-CA-C	-6.17	107.11	113.10
1	C	437	GLN	CB-CG-CD	-6.17	102.11	112.60
2	H	801	GLN	CA-C-N	6.17	129.05	120.29
2	H	801	GLN	C-N-CA	6.17	129.05	120.29
8	d	147	SER	N-CA-C	-6.17	105.24	112.89
8	h	418	PHE	CA-CB-CG	-6.17	107.63	113.80
2	F	611	PHE	CA-C-N	6.17	129.04	120.29
2	F	611	PHE	C-N-CA	6.17	129.04	120.29
1	G	435	GLN	CA-C-N	6.17	128.54	120.28
1	G	435	GLN	C-N-CA	6.17	128.54	120.28
3	K	339	HIS	CB-CG-CD2	-6.17	123.18	131.20
6	P	39	ARG	N-CA-C	-6.17	104.48	112.68
2	B	281	ALA	N-CA-C	-6.17	105.52	113.16
2	B	689	LEU	N-CA-C	-6.17	104.93	112.88
5	L	6	LYS	CA-C-N	6.17	128.86	120.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	6	LYS	C-N-CA	6.17	128.86	120.54
8	g	233	SER	CA-C-O	6.17	126.96	119.38
8	i	133	GLU	O-C-N	-6.17	115.37	122.03
2	B	863	LEU	O-C-N	-6.16	115.72	122.07
1	C	456	LEU	N-CA-C	-6.16	105.74	113.20
1	E	465	ASP	CA-CB-CG	6.16	118.76	112.60
2	N	273	CYS	N-CA-C	-6.16	98.47	108.52
2	T	13	LEU	O-C-N	6.16	129.18	122.15
2	T	15	ASN	OD1-CG-ND2	6.16	128.76	122.60
2	B	663	PHE	CA-CB-CG	-6.16	107.64	113.80
2	F	407	ASP	CA-C-O	-6.16	111.72	120.16
8	d	180	HIS	CA-C-N	6.16	133.06	121.97
8	d	180	HIS	C-N-CA	6.16	133.06	121.97
8	f	345	LEU	CA-C-N	6.16	131.51	122.39
8	f	345	LEU	C-N-CA	6.16	131.51	122.39
8	h	40	PHE	CA-CB-CG	-6.16	107.64	113.80
2	B	391	LYS	CA-CB-CG	6.16	126.42	114.10
2	B	870	GLU	N-CA-C	-6.16	99.71	109.07
2	F	494	GLN	O-C-N	6.16	129.17	122.15
3	I	537	GLU	N-CA-C	-6.16	104.19	111.03
8	a	212	ARG	NE-CZ-NH1	-6.16	115.34	121.50
8	m	59	HIS	CG-CD2-NE2	6.16	113.36	107.20
8	m	126	ALA	N-CA-C	-6.16	103.19	111.87
4	J	271	LEU	CA-C-N	6.16	128.85	120.54
4	J	271	LEU	C-N-CA	6.16	128.85	120.54
2	F	568	GLY	CA-C-O	6.16	126.76	119.50
2	S	10	ASN	CA-C-O	-6.16	114.36	120.82
8	e	303	VAL	CA-C-O	6.16	127.73	121.58
2	H	460	HIS	CE1-NE2-CD2	-6.15	102.85	109.00
8	e	170	SER	CA-C-O	6.15	127.55	120.60
7	V	615	ARG	CA-C-N	6.15	129.66	120.31
7	V	615	ARG	C-N-CA	6.15	129.66	120.31
8	f	54	GLN	O-C-N	6.15	130.12	122.86
8	h	436	HIS	CA-C-N	6.15	132.78	121.70
8	h	436	HIS	C-N-CA	6.15	132.78	121.70
8	l	313	THR	N-CA-C	-6.15	107.61	114.62
8	m	79	ASN	N-CA-C	-6.15	105.83	113.15
9	t	48	GLU	N-CA-CB	6.15	118.99	110.07
2	F	446	PHE	CA-CB-CG	6.15	119.95	113.80
5	L	71	LYS	CA-C-N	6.15	128.31	120.56
5	L	71	LYS	C-N-CA	6.15	128.31	120.56
2	S	73	LEU	N-CA-CB	6.15	119.16	110.12

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	206	ASP	CA-CB-CG	-6.15	106.45	112.60
2	D	282	VAL	O-C-N	-6.15	114.89	122.57
2	D	580	LEU	N-CA-C	-6.15	105.27	112.89
1	G	832	SER	CA-C-N	6.15	129.65	120.31
1	G	832	SER	C-N-CA	6.15	129.65	120.31
8	b	301	LYS	N-CA-C	-6.15	103.98	112.03
8	b	367	LEU	CA-C-O	-6.15	111.74	120.16
8	c	222	ASN	CA-C-O	-6.15	114.79	119.59
8	g	286	ARG	N-CA-C	-6.15	104.27	112.94
8	j	325	GLN	N-CA-C	-6.15	99.79	109.50
8	c	171	VAL	CA-C-N	6.15	130.00	120.60
8	c	171	VAL	C-N-CA	6.15	130.00	120.60
2	D	805	PHE	CA-CB-CG	-6.14	107.66	113.80
2	Q	78	HIS	CE1-NE2-CD2	-6.14	102.86	109.00
8	a	118	ILE	CA-CB-CG1	6.14	120.85	110.40
8	n	61	ILE	CA-C-N	6.14	126.06	119.85
8	n	61	ILE	C-N-CA	6.14	126.06	119.85
2	B	712	HIS	ND1-CE1-NE2	6.14	114.54	108.40
8	a	363	LYS	N-CA-C	6.14	118.52	109.24
8	a	418	PHE	CA-CB-CG	-6.14	107.66	113.80
9	s	59	ARG	NE-CZ-NH2	-6.14	113.67	119.20
1	A	377	TYR	N-CA-C	-6.14	104.50	111.07
1	E	717	ASN	CA-CB-CG	-6.14	106.46	112.60
3	I	645	LEU	N-CA-C	-6.14	104.49	112.23
2	N	520	GLU	N-CA-CB	6.14	120.21	110.57
8	e	77	ILE	N-CA-C	-6.14	107.27	113.47
8	h	177	GLU	N-CA-CB	6.14	118.99	109.97
1	C	607	LEU	N-CA-C	6.14	119.36	110.28
3	I	34	LEU	N-CA-CB	6.14	118.99	109.85
8	m	388	PHE	CB-CG-CD2	-6.14	110.27	120.70
8	n	263	THR	CA-C-O	-6.14	111.75	120.16
2	D	704	HIS	CG-CD2-NE2	6.13	113.33	107.20
1	M	675	PHE	CA-CB-CG	-6.13	107.67	113.80
8	e	65	VAL	N-CA-C	-6.13	99.32	108.46
8	e	265	ARG	N-CA-CB	6.13	120.86	110.49
8	h	298	LEU	N-CA-C	-6.13	105.64	112.57
1	E	827	PHE	CA-C-N	6.13	128.50	120.28
1	E	827	PHE	C-N-CA	6.13	128.50	120.28
5	L	89	ASP	CA-CB-CG	6.13	118.73	112.60
8	c	94	SER	CA-C-N	6.13	133.25	121.54
8	c	94	SER	C-N-CA	6.13	133.25	121.54
8	d	16	GLN	N-CA-C	6.13	119.96	112.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	91	ARG	O-C-N	-6.13	113.31	122.39
1	M	674	TRP	CB-CG-CD2	-6.13	118.22	126.80
2	N	318	LEU	CA-C-N	6.13	130.82	120.64
2	N	318	LEU	C-N-CA	6.13	130.82	120.64
2	N	869	ASP	N-CA-CB	6.13	120.85	110.49
6	P	186	THR	CA-CB-OG1	6.13	118.80	109.60
7	X	603	ILE	N-CA-CB	6.13	118.88	110.54
3	I	390	HIS	ND1-CE1-NE2	6.13	114.53	108.40
8	j	238	ALA	O-C-N	6.13	129.81	122.27
9	q	20	GLU	O-C-N	6.13	128.62	122.12
2	B	713	PHE	CA-CB-CG	-6.13	107.67	113.80
2	T	38	VAL	CA-C-N	6.13	128.86	120.46
2	T	38	VAL	C-N-CA	6.13	128.86	120.46
8	d	37	VAL	N-CA-C	-6.13	107.32	113.20
8	e	315	HIS	CA-CB-CG	-6.13	107.67	113.80
8	i	302	ASN	N-CA-C	-6.13	105.56	113.16
9	r	33	THR	CA-C-N	6.13	128.49	120.28
9	r	33	THR	C-N-CA	6.13	128.49	120.28
3	I	645	LEU	CA-C-O	-6.13	112.56	119.79
8	f	282	VAL	N-CA-C	-6.13	106.53	112.29
8	g	54	GLN	N-CA-C	6.13	118.20	110.24
2	D	792	TYR	CA-C-O	-6.12	114.39	120.70
2	D	803	LEU	N-CA-C	6.12	119.95	112.23
2	F	831	ARG	NH1-CZ-NH2	-6.12	111.34	119.30
8	g	274	THR	N-CA-C	6.12	121.85	113.16
1	C	439	PRO	CA-C-N	6.12	128.40	120.44
1	C	439	PRO	C-N-CA	6.12	128.40	120.44
1	G	385	PRO	CA-C-O	-6.12	110.72	118.86
8	n	267	HIS	CE1-NE2-CD2	-6.12	102.88	109.00
8	i	341	ARG	NE-CZ-NH2	-6.12	113.69	119.20
8	a	123	ASP	N-CA-C	-6.12	104.32	112.94
8	f	267	HIS	CA-C-N	6.12	131.10	121.99
8	f	267	HIS	C-N-CA	6.12	131.10	121.99
8	j	198	ASN	N-CA-C	-6.12	104.32	112.94
8	j	423	ASN	CA-CB-CG	6.12	118.72	112.60
2	D	784	PHE	CA-CB-CG	-6.11	107.69	113.80
2	T	55	THR	CA-C-N	6.11	128.39	120.44
2	T	55	THR	C-N-CA	6.11	128.39	120.44
8	a	2	PRO	CA-N-CD	-6.11	103.44	112.00
8	l	180	HIS	N-CA-C	-6.11	103.24	112.04
1	A	511	HIS	CA-CB-CG	6.11	119.91	113.80
8	k	81	PRO	CB-CA-C	-6.11	102.76	111.68

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	183	VAL	CA-C-N	6.11	127.73	120.09
8	l	183	VAL	C-N-CA	6.11	127.73	120.09
2	B	440	ASP	CA-CB-CG	6.11	118.71	112.60
5	L	174	SER	N-CA-C	6.11	118.02	111.36
1	M	740	ASN	CA-CB-CG	6.11	118.71	112.60
2	D	715	HIS	CE1-NE2-CD2	-6.11	102.89	109.00
1	A	320	LEU	CB-CA-C	-6.11	98.94	110.67
1	A	730	ASP	CA-C-N	6.11	129.59	120.31
1	A	730	ASP	C-N-CA	6.11	129.59	120.31
8	l	293	VAL	N-CA-C	-6.11	105.71	113.22
1	A	551	GLU	N-CA-C	-6.11	105.09	112.54
1	E	527	PHE	CA-C-O	-6.11	112.51	119.41
4	J	758	GLN	N-CA-CB	6.11	119.20	110.16
7	W	618	CYS	N-CA-CB	6.11	119.10	110.12
8	h	278	THR	N-CA-C	-6.11	105.48	113.17
8	i	276	LEU	N-CA-C	-6.11	104.54	112.23
8	i	420	GLU	O-C-N	-6.11	114.76	122.27
8	k	183	VAL	N-CA-C	-6.11	106.55	112.29
3	K	402	LYS	CA-C-N	6.10	130.31	120.30
3	K	402	LYS	C-N-CA	6.10	130.31	120.30
4	J	255	PRO	CA-C-N	6.10	129.50	120.90
4	J	255	PRO	C-N-CA	6.10	129.50	120.90
8	g	333	VAL	N-CA-C	-6.10	103.26	111.44
8	j	250	ASN	CA-CB-CG	-6.10	106.50	112.60
3	I	50	THR	CA-C-O	-6.10	114.42	120.70
4	J	227	ARG	O-C-N	-6.10	115.94	123.44
8	g	116	GLU	N-CA-C	6.10	118.01	111.36
3	K	117	LEU	CA-C-N	6.10	133.22	122.67
3	K	117	LEU	C-N-CA	6.10	133.22	122.67
5	L	1679	GLN	OE1-CD-NE2	6.10	128.70	122.60
1	M	839	LEU	N-CA-CB	6.10	119.19	110.16
2	B	484	LEU	O-C-N	-6.10	114.77	122.27
2	N	522	PHE	N-CA-C	-6.10	104.46	113.61
8	l	181	VAL	N-CA-C	-6.10	99.27	108.17
5	L	1573	CYS	CA-C-N	6.10	128.45	120.28
5	L	1573	CYS	C-N-CA	6.10	128.45	120.28
2	H	280	VAL	N-CA-C	-6.09	106.79	113.43
5	L	1459	LEU	CA-C-N	6.09	132.16	122.59
5	L	1459	LEU	C-N-CA	6.09	132.16	122.59
8	b	360	LEU	CA-C-N	6.09	133.33	121.63
8	b	360	LEU	C-N-CA	6.09	133.33	121.63
8	h	124	ARG	CA-C-O	6.09	127.03	119.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	36	ILE	CA-C-N	6.09	131.17	122.09
8	j	36	ILE	C-N-CA	6.09	131.17	122.09
9	o	31	MET	CG-SD-CE	-6.09	87.49	100.90
8	c	133	GLU	CA-C-O	-6.09	114.62	120.90
1	A	411	HIS	CB-CG-CD2	-6.09	123.28	131.20
5	L	1379	ASN	O-C-N	-6.09	114.78	122.27
8	b	296	ARG	NH1-CZ-NH2	-6.09	111.38	119.30
8	c	417	ASN	N-CA-C	-6.09	103.18	112.99
8	n	56	ASP	CA-CB-CG	6.09	118.69	112.60
1	A	452	THR	CA-C-N	6.09	131.21	120.74
1	A	452	THR	C-N-CA	6.09	131.21	120.74
3	K	164	GLY	CA-C-O	6.09	129.03	122.03
8	i	215	THR	N-CA-C	-6.09	105.14	113.30
8	l	227	GLN	N-CA-C	-6.09	105.02	112.88
1	C	546	ILE	CA-C-O	-6.09	111.79	119.95
2	D	809	LYS	CB-CA-C	-6.09	100.50	110.85
8	a	133	GLU	N-CA-CB	6.09	118.81	109.98
8	k	309	ARG	N-CA-C	-6.09	105.14	113.30
8	l	366	TYR	N-CA-C	-6.08	97.84	110.80
1	G	427	TRP	CZ3-CH2-CZ2	-6.08	113.59	121.50
8	m	425	ARG	NE-CZ-NH2	-6.08	113.73	119.20
2	B	405	THR	CA-C-N	6.08	128.97	121.06
2	B	405	THR	C-N-CA	6.08	128.97	121.06
8	n	414	PHE	CA-C-O	6.08	125.69	119.97
1	E	500	ASP	O-C-N	6.08	128.33	122.07
6	P	173	HIS	ND1-CE1-NE2	6.08	114.48	108.40
7	V	664	ASN	CB-CA-C	-6.08	100.52	110.85
9	p	29	LEU	CA-C-O	6.08	127.80	120.81
2	Q	34	TYR	CA-C-N	6.08	128.34	120.44
2	Q	34	TYR	C-N-CA	6.08	128.34	120.44
7	W	643	LEU	N-CA-C	6.08	117.98	111.36
3	K	328	VAL	O-C-N	-6.08	116.25	122.14
2	N	649	THR	N-CA-C	6.08	117.70	111.14
2	O	37	ARG	N-CA-C	6.08	117.57	111.07
8	h	170	SER	N-CA-CB	6.08	119.07	109.71
8	i	180	HIS	ND1-CE1-NE2	6.08	114.47	108.40
8	l	336	SER	CA-C-O	6.08	126.86	120.42
1	A	454	LYS	CA-C-N	6.07	129.54	120.31
1	A	454	LYS	C-N-CA	6.07	129.54	120.31
4	J	259	THR	CA-C-O	6.07	127.46	120.60
5	L	1564	ALA	CB-CA-C	-6.07	100.52	110.85
2	D	740	ALA	N-CA-CB	6.07	120.12	110.65

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	851	HIS	CB-CG-CD2	-6.07	123.31	131.20
1	G	614	SER	N-CA-C	-6.07	106.53	112.97
4	J	569	LYS	N-CA-CB	6.07	120.07	110.23
8	f	32	SER	N-CA-C	-6.07	102.40	109.93
8	l	270	MET	N-CA-CB	6.07	119.36	109.95
1	A	655	CYS	N-CA-C	-6.07	105.36	112.89
1	C	565	THR	CA-C-O	6.07	128.67	120.47
2	D	268	CYS	N-CA-C	6.07	123.73	110.80
7	W	623	VAL	CA-C-N	6.07	128.33	120.44
7	W	623	VAL	C-N-CA	6.07	128.33	120.44
8	d	250	ASN	CA-CB-CG	-6.07	106.53	112.60
8	l	247	GLY	O-C-N	-6.07	114.81	122.70
1	A	310	GLU	CB-CG-CD	-6.07	102.28	112.60
3	K	123	ASN	CB-CA-C	-6.07	100.72	110.79
2	R	16	LEU	N-CA-CB	6.07	118.81	110.01
8	j	23	LYS	N-CA-C	-6.07	105.36	112.89
1	C	282	PHE	CA-C-O	6.07	126.83	119.31
2	F	627	VAL	CA-C-N	6.07	128.82	120.39
2	F	627	VAL	C-N-CA	6.07	128.82	120.39
2	F	638	SER	N-CA-C	-6.07	99.17	108.76
8	d	88	PRO	CA-C-O	-6.07	110.98	118.99
8	g	96	HIS	ND1-CE1-NE2	6.07	114.47	108.40
2	F	421	VAL	O-C-N	-6.07	115.99	121.87
5	L	589	LYS	N-CA-C	-6.07	105.17	113.30
8	a	299	GLN	OE1-CD-NE2	-6.07	116.53	122.60
8	h	412	ASP	N-CA-CB	6.07	120.74	110.49
7	W	606	MET	CA-C-N	6.06	129.03	120.42
7	W	606	MET	C-N-CA	6.06	129.03	120.42
2	H	507	ALA	CA-C-N	6.06	128.20	120.56
2	H	507	ALA	C-N-CA	6.06	128.20	120.56
3	I	294	SER	O-C-N	-6.06	115.41	122.87
3	K	112	LEU	N-CA-C	-6.06	106.01	113.41
2	S	60	LYS	CA-C-N	6.06	128.41	120.28
2	S	60	LYS	C-N-CA	6.06	128.41	120.28
7	W	643	LEU	CA-C-N	6.06	128.40	120.28
7	W	643	LEU	C-N-CA	6.06	128.40	120.28
8	e	309	ARG	O-C-N	-6.06	115.50	121.93
8	j	385	SER	N-CA-C	-6.06	105.73	113.01
8	b	418	PHE	CA-C-O	-6.06	113.51	120.24
1	C	283	GLU	N-CA-C	6.06	119.60	111.24
1	G	737	MET	N-CA-C	-6.06	105.38	112.89
3	K	645	LEU	N-CA-C	-6.06	105.15	112.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	854	GLN	N-CA-CB	6.06	119.67	110.28
8	k	232	VAL	N-CA-C	-6.06	105.16	111.58
1	M	656	ASN	OD1-CG-ND2	-6.06	116.54	122.60
2	N	638	SER	CA-C-O	-6.06	114.21	120.99
8	b	268	PHE	N-CA-C	-6.06	99.28	108.67
8	c	183	VAL	CA-C-N	6.06	127.66	120.09
8	c	183	VAL	C-N-CA	6.06	127.66	120.09
2	D	539	ASP	CA-CB-CG	6.06	118.66	112.60
5	L	1609	ALA	N-CA-CB	6.06	120.72	110.49
8	e	294	MET	O-C-N	6.06	128.54	122.30
1	C	271	THR	O-C-N	-6.05	115.55	122.09
4	J	480	ASN	O-C-N	-6.05	116.35	123.25
2	N	642	HIS	ND1-CE1-NE2	6.05	114.45	108.40
2	R	64	ARG	NE-CZ-NH2	6.05	124.65	119.20
8	e	37	VAL	CA-C-O	6.05	124.18	119.46
8	j	362	ARG	N-CA-CB	6.05	120.28	110.41
1	G	571	ASP	CA-CB-CG	-6.05	106.55	112.60
5	L	1674	VAL	N-CA-CB	-6.05	103.25	112.15
8	m	163	LYS	CA-C-N	6.05	129.31	120.71
8	m	163	LYS	C-N-CA	6.05	129.31	120.71
5	L	97	TYR	CA-C-O	-6.05	114.47	120.82
8	h	66	LEU	CA-C-N	6.05	131.52	122.99
8	h	66	LEU	C-N-CA	6.05	131.52	122.99
8	h	236	MET	N-CA-CB	6.05	118.85	110.07
2	F	665	PHE	CA-CB-CG	6.05	119.85	113.80
4	J	689	HIS	CE1-NE2-CD2	-6.05	102.95	109.00
8	i	24	GLN	CG-CD-OE1	6.05	132.90	120.80
8	l	57	ASP	CA-CB-CG	6.05	118.65	112.60
8	m	267	HIS	CB-CG-CD2	-6.05	123.33	131.20
1	C	658	TRP	CB-CG-CD1	6.05	135.97	126.90
2	N	510	LYS	N-CA-C	6.05	117.87	111.28
2	S	73	LEU	CA-C-O	-6.05	114.14	120.55
7	W	610	THR	CA-CB-OG1	6.05	118.67	109.60
8	j	251	ASN	N-CA-C	-6.05	105.55	113.17
8	k	301	LYS	N-CA-C	-6.05	97.92	110.80
8	m	349	ILE	N-CA-CB	6.05	117.77	110.33
1	C	720	ASP	N-CA-C	6.04	117.87	111.28
4	J	945	VAL	CA-C-O	-6.04	113.72	120.25
1	M	392	ARG	NE-CZ-NH1	-6.04	115.46	121.50
8	e	166	VAL	N-CA-C	-6.04	99.65	108.11
8	i	90	ASN	CA-CB-CG	6.04	118.64	112.60
9	s	26	ASN	N-CA-CB	6.04	120.70	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	850	THR	N-CA-C	6.04	119.91	112.54
1	C	525	ASP	CA-C-N	6.04	128.87	120.29
1	C	525	ASP	C-N-CA	6.04	128.87	120.29
4	J	704	THR	O-C-N	-6.04	113.78	122.36
4	J	990	VAL	N-CA-CB	6.04	119.22	110.52
8	a	336	SER	N-CA-C	6.04	117.94	111.36
8	d	116	GLU	CA-C-O	6.04	126.82	120.42
8	g	184	GLN	O-C-N	-6.04	115.03	120.71
8	j	436	HIS	CB-CG-ND1	6.04	131.76	122.70
3	I	407	ASP	CA-C-N	6.04	129.49	120.31
3	I	407	ASP	C-N-CA	6.04	129.49	120.31
8	c	136	VAL	CA-CB-CG2	-6.04	100.13	110.40
2	D	415	GLN	N-CA-CB	6.04	119.60	110.30
8	f	74	ILE	N-CA-C	-6.04	104.16	113.16
2	N	651	PHE	CA-CB-CG	-6.04	107.76	113.80
8	d	415	LYS	N-CA-C	-6.04	99.55	108.79
4	J	473	ASP	CA-C-N	6.04	129.48	120.31
4	J	473	ASP	C-N-CA	6.04	129.48	120.31
2	S	57	LYS	CA-C-N	6.04	128.73	120.46
2	S	57	LYS	C-N-CA	6.04	128.73	120.46
8	l	42	THR	CB-CA-C	6.04	118.70	109.34
2	D	832	ILE	N-CA-C	6.03	116.77	110.62
1	E	696	MET	CA-C-O	6.03	126.95	120.55
3	I	403	VAL	CA-C-O	-6.03	113.95	120.47
8	f	3	ARG	N-CA-C	-6.03	100.48	109.83
9	s	45	ILE	N-CA-C	-6.03	99.79	108.42
1	E	361	ARG	NE-CZ-NH1	-6.03	115.47	121.50
2	F	416	HIS	N-CA-CB	6.03	119.63	110.28
3	I	330	ASP	CA-CB-CG	6.03	118.63	112.60
8	l	223	PRO	CB-CA-C	6.03	116.94	111.87
8	n	320	ILE	CA-CB-CG1	6.03	120.65	110.40
9	q	58	ARG	CA-C-N	6.03	128.36	120.28
9	q	58	ARG	C-N-CA	6.03	128.36	120.28
2	D	480	ARG	NH1-CZ-NH2	-6.03	111.46	119.30
8	k	141	ILE	N-CA-C	-6.03	104.53	113.39
2	F	866	THR	N-CA-C	-6.03	99.98	109.50
5	L	171	LEU	CA-C-N	6.03	128.36	120.28
5	L	171	LEU	C-N-CA	6.03	128.36	120.28
6	P	263	GLN	CA-C-N	6.03	126.81	120.12
6	P	263	GLN	C-N-CA	6.03	126.81	120.12
8	i	181	VAL	N-CA-C	-6.03	99.44	108.12
8	l	61	ILE	CA-C-N	6.03	125.97	119.76

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	61	ILE	C-N-CA	6.03	125.97	119.76
8	l	218	LEU	N-CA-C	-6.03	105.65	114.39
4	J	910	HIS	CB-CA-C	-6.03	101.42	110.88
8	b	276	LEU	CD1-CG-CD2	6.03	124.05	110.80
8	k	67	LEU	N-CA-C	-6.03	99.58	109.40
1	C	720	ASP	CA-C-N	6.02	128.71	120.46
1	C	720	ASP	C-N-CA	6.02	128.71	120.46
4	J	409	HIS	CG-CD2-NE2	6.02	113.22	107.20
7	X	636	GLN	O-C-N	6.02	129.02	122.15
8	h	113	LYS	N-CA-CB	6.02	119.71	110.61
8	k	74	ILE	CA-C-O	6.02	126.17	119.42
8	k	329	ASP	CA-CB-CG	6.02	118.62	112.60
1	A	759	ASN	OD1-CG-ND2	6.02	128.62	122.60
1	C	330	THR	CA-C-N	6.02	128.84	120.29
1	C	330	THR	C-N-CA	6.02	128.84	120.29
2	D	464	SER	CA-C-N	6.02	128.84	120.29
2	D	464	SER	C-N-CA	6.02	128.84	120.29
3	K	622	SER	CA-C-O	6.02	126.89	119.97
5	L	565	ASP	N-CA-C	-6.02	105.89	113.72
2	B	706	LEU	CA-C-O	6.02	126.79	119.38
2	D	495	VAL	CA-C-N	6.02	130.68	122.07
2	D	495	VAL	C-N-CA	6.02	130.68	122.07
2	F	836	GLN	CA-C-N	6.02	128.26	120.44
2	F	836	GLN	C-N-CA	6.02	128.26	120.44
1	G	209	LEU	CA-C-O	-6.02	110.57	120.80
1	G	661	ASN	CA-CB-CG	6.02	118.62	112.60
3	I	2	ILE	O-C-N	-6.02	115.63	121.83
4	J	365	TYR	CA-C-N	6.02	129.46	120.31
4	J	365	TYR	C-N-CA	6.02	129.46	120.31
8	n	59	HIS	ND1-CE1-NE2	6.02	114.42	108.40
4	J	745	GLU	CA-C-N	6.02	127.36	119.84
4	J	745	GLU	C-N-CA	6.02	127.36	119.84
7	W	627	VAL	CA-C-N	6.02	128.84	120.29
7	W	627	VAL	C-N-CA	6.02	128.84	120.29
8	b	94	SER	CA-C-N	6.02	133.03	121.54
8	b	94	SER	C-N-CA	6.02	133.03	121.54
8	f	115	HIS	CB-CG-CD2	-6.02	123.38	131.20
3	K	35	HIS	CG-CD2-NE2	6.02	113.22	107.20
8	m	200	ASP	O-C-N	6.02	130.16	122.10
1	C	514	SER	CA-C-N	6.01	128.70	120.46
1	C	514	SER	C-N-CA	6.01	128.70	120.46
2	F	589	THR	N-CA-CB	6.01	121.35	111.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	333	THR	CA-CB-OG1	6.01	118.62	109.60
3	I	397	GLN	N-CA-CB	6.01	118.69	109.91
3	K	263	MET	CA-C-O	6.01	125.41	118.97
1	M	746	ILE	CA-C-N	6.01	128.83	120.29
1	M	746	ILE	C-N-CA	6.01	128.83	120.29
2	N	808	ARG	CD-NE-CZ	-6.01	115.98	124.40
8	k	334	HIS	CG-CD2-NE2	6.01	113.21	107.20
5	L	40	LYS	CA-C-O	-6.01	114.51	120.82
1	M	549	ARG	NE-CZ-NH1	-6.01	115.49	121.50
6	P	225	GLN	CA-CB-CG	6.01	126.12	114.10
2	Q	54	VAL	CA-CB-CG1	6.01	120.62	110.40
1	G	403	TYR	N-CA-CB	-6.01	106.00	111.59
3	I	24	GLY	O-C-N	-6.01	117.95	123.78
8	f	195	LEU	CA-C-O	6.01	126.80	119.11
2	H	394	GLU	N-CA-C	-6.01	106.11	113.50
5	L	1569	HIS	CG-CD2-NE2	6.01	113.21	107.20
2	N	720	TYR	CA-C-O	-6.01	112.62	119.41
8	k	15	ASN	CA-CB-CG	-6.01	106.59	112.60
8	n	54	GLN	N-CA-C	6.01	118.52	110.35
5	L	88	ALA	CA-C-N	6.00	128.25	120.44
5	L	88	ALA	C-N-CA	6.00	128.25	120.44
2	N	314	ARG	N-CA-CB	6.00	119.90	110.71
2	D	469	MET	CA-C-N	6.00	129.26	123.02
2	D	469	MET	C-N-CA	6.00	129.26	123.02
1	E	430	ARG	N-CA-CB	6.00	120.19	110.41
2	H	510	LYS	CA-C-O	6.00	126.78	120.42
3	K	82	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
8	e	102	ASN	OD1-CG-ND2	-6.00	116.60	122.60
8	f	83	ALA	CA-C-N	6.00	131.79	122.49
8	f	83	ALA	C-N-CA	6.00	131.79	122.49
8	n	230	GLN	N-CA-C	-6.00	104.11	112.45
1	C	759	ASN	O-C-N	-6.00	114.89	122.27
2	H	441	THR	N-CA-C	-6.00	105.78	114.12
5	L	1374	HIS	CB-CG-CD2	-6.00	123.40	131.20
1	M	318	LEU	N-CA-C	-6.00	99.93	109.59
8	e	371	HIS	CE1-NE2-CD2	-6.00	103.00	109.00
8	h	409	ARG	NE-CZ-NH1	6.00	127.50	121.50
2	B	704	HIS	CA-C-N	6.00	128.94	120.42
2	B	704	HIS	C-N-CA	6.00	128.94	120.42
5	L	523	SER	CA-C-N	6.00	129.43	120.31
5	L	523	SER	C-N-CA	6.00	129.43	120.31
5	L	1618	SER	O-C-N	-6.00	114.29	122.33

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	375	CYS	N-CA-CB	6.00	120.35	110.39
2	N	497	HIS	CB-CG-CD2	-6.00	123.40	131.20
1	A	830	ASN	CA-C-O	6.00	126.87	119.97
2	D	585	VAL	CA-C-O	-6.00	114.49	120.85
3	K	260	ARG	N-CA-C	-6.00	98.74	108.52
3	K	305	ASP	CA-CB-CG	6.00	118.60	112.60
2	N	861	LEU	CA-C-N	6.00	128.24	120.56
2	N	861	LEU	C-N-CA	6.00	128.24	120.56
8	j	38	GLU	O-C-N	-6.00	115.40	122.96
8	m	372	ARG	CA-C-N	-6.00	115.37	122.93
8	m	372	ARG	C-N-CA	-6.00	115.37	122.93
1	A	263	LEU	O-C-N	-6.00	115.07	120.71
1	A	393	TRP	CE3-CZ3-CH2	-6.00	113.30	121.10
2	H	332	LYS	CA-C-O	6.00	126.78	120.42
2	H	386	HIS	CB-CG-CD2	-6.00	123.41	131.20
2	Q	33	GLN	CA-C-O	6.00	126.91	120.55
8	a	46	ASP	CA-C-N	6.00	133.00	121.54
8	a	46	ASP	C-N-CA	6.00	133.00	121.54
1	G	517	HIS	CA-CB-CG	-6.00	107.81	113.80
8	h	274	THR	CA-C-O	-6.00	111.95	120.16
2	N	575	HIS	CG-CD2-NE2	5.99	113.19	107.20
2	R	90	ARG	CA-C-N	5.99	128.23	120.44
2	R	90	ARG	C-N-CA	5.99	128.23	120.44
8	i	353	PRO	O-C-N	5.99	130.16	122.85
8	k	103	ASN	CA-C-O	-5.99	114.30	120.89
8	m	93	LEU	O-C-N	5.99	130.93	123.14
4	J	396	ASP	CA-C-O	5.99	125.42	118.77
1	C	250	ASN	CA-CB-CG	5.99	118.59	112.60
1	C	610	SER	CA-C-N	5.99	127.76	122.43
1	C	610	SER	C-N-CA	5.99	127.76	122.43
1	G	513	ARG	CA-C-O	-5.99	114.20	120.55
8	a	227	GLN	N-CA-C	-5.99	104.62	113.61
8	b	274	THR	CA-CB-OG1	-5.99	100.62	109.60
8	l	374	SER	CA-C-O	5.99	127.55	120.66
1	E	238	VAL	O-C-N	-5.99	116.75	122.98
3	K	640	ASP	CA-CB-CG	5.99	118.58	112.60
8	h	228	ILE	N-CA-CB	-5.99	104.58	112.36
8	i	163	LYS	N-CA-C	-5.99	104.84	111.36
3	K	593	CYS	O-C-N	5.98	128.23	122.07
2	T	29	ALA	CA-C-N	5.98	128.22	120.44
2	T	29	ALA	C-N-CA	5.98	128.22	120.44
6	P	192	ILE	CA-CB-CG2	-5.98	100.33	110.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	a	102	ASN	CB-CA-C	5.98	119.47	111.82
8	a	155	GLU	N-CA-C	-5.98	105.64	113.12
9	t	39	ARG	N-CA-C	5.98	117.80	111.28
3	K	635	HIS	CA-C-N	5.98	132.96	121.54
3	K	635	HIS	C-N-CA	5.98	132.96	121.54
7	X	602	PHE	CA-C-N	5.98	128.65	120.46
7	X	602	PHE	C-N-CA	5.98	128.65	120.46
8	f	386	SER	O-C-N	-5.98	115.33	122.15
2	B	831	ARG	N-CA-C	5.98	118.75	111.82
2	F	865	THR	N-CA-CB	5.98	120.00	110.73
3	K	91	ARG	NE-CZ-NH2	-5.98	113.82	119.20
2	S	54	VAL	CB-CA-C	5.98	120.47	112.22
7	V	604	LYS	N-CA-CB	5.98	118.64	109.91
4	J	839	ASN	N-CA-CB	-5.98	101.02	110.28
2	O	78	HIS	CE1-NE2-CD2	-5.98	103.02	109.00
2	D	836	GLN	CA-C-N	5.97	128.77	120.29
2	D	836	GLN	C-N-CA	5.97	128.77	120.29
1	M	265	VAL	CA-C-O	5.97	126.81	119.58
8	a	297	LEU	N-CA-CB	5.97	119.56	110.42
8	k	327	GLU	CA-C-N	5.97	129.29	122.36
8	k	327	GLU	C-N-CA	5.97	129.29	122.36
3	I	313	ARG	NE-CZ-NH2	5.97	124.58	119.20
4	J	674	THR	N-CA-C	-5.97	105.99	113.28
3	K	532	GLN	N-CA-C	5.97	118.75	111.82
8	e	381	HIS	ND1-CE1-NE2	5.97	114.37	108.40
8	f	411	GLU	CA-C-N	5.97	132.43	123.05
8	f	411	GLU	C-N-CA	5.97	132.43	123.05
9	p	50	LEU	O-C-N	5.97	128.96	122.15
9	p	51	SER	O-C-N	-5.97	115.79	122.12
1	C	526	PHE	CB-CA-C	-5.97	100.70	110.85
8	m	388	PHE	CA-CB-CG	-5.97	107.83	113.80
2	F	851	HIS	CB-CG-ND1	5.97	131.66	122.70
5	L	413	HIS	CB-CG-CD2	-5.97	123.44	131.20
1	M	221	LEU	CA-C-N	5.97	130.83	120.68
1	M	221	LEU	C-N-CA	5.97	130.83	120.68
8	d	142	ALA	CA-C-O	5.97	127.72	121.15
1	E	478	LEU	N-CA-CB	-5.97	100.48	110.39
1	E	480	GLU	N-CA-C	-5.97	107.23	114.75
8	i	6	ILE	N-CA-CB	5.97	118.19	111.21
2	F	792	TYR	N-CA-C	5.97	117.86	111.36
4	J	807	VAL	CB-CA-C	-5.97	104.22	112.04
5	L	400	GLN	CA-CB-CG	5.97	126.03	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	b	315	HIS	CB-CG-CD2	-5.97	123.44	131.20
8	l	168	THR	CA-CB-OG1	5.97	118.55	109.60
2	S	64	ARG	NE-CZ-NH2	-5.96	113.83	119.20
8	f	130	ASP	CA-CB-CG	-5.96	106.64	112.60
8	f	207	ASN	CA-CB-CG	5.96	118.56	112.60
8	g	29	HIS	CG-CD2-NE2	5.96	113.16	107.20
8	l	264	PRO	N-CA-C	5.96	120.22	111.03
2	B	828	GLU	O-C-N	-5.96	115.35	122.15
8	b	303	VAL	N-CA-C	5.96	118.22	109.63
8	n	426	GLU	CA-C-N	5.96	128.89	120.42
8	n	426	GLU	C-N-CA	5.96	128.89	120.42
8	h	100	ALA	CA-C-O	-5.96	114.56	120.82
8	l	389	GLU	CA-C-O	-5.96	113.11	119.97
1	E	468	CYS	CA-C-O	-5.96	113.81	120.25
1	E	569	LYS	CA-C-O	5.96	126.62	119.59
2	H	865	THR	CA-CB-OG1	5.96	118.54	109.60
7	V	638	SER	CA-C-N	5.96	128.54	120.44
7	V	638	SER	C-N-CA	5.96	128.54	120.44
8	i	133	GLU	CA-C-O	5.96	127.04	120.90
2	B	289	ILE	CA-C-O	-5.96	114.03	120.47
2	D	741	GLN	CA-C-N	5.96	132.92	121.54
2	D	741	GLN	C-N-CA	5.96	132.92	121.54
2	F	611	PHE	CA-CB-CG	-5.96	107.84	113.80
8	j	219	HIS	CB-CG-CD2	-5.96	123.45	131.20
5	L	1387	PHE	CA-C-O	-5.96	114.11	120.42
8	g	132	LEU	O-C-N	-5.96	116.07	123.04
2	F	642	HIS	ND1-CE1-NE2	5.96	114.36	108.40
6	P	360	GLN	OE1-CD-NE2	5.96	128.56	122.60
8	b	180	HIS	ND1-CE1-NE2	5.96	114.36	108.40
3	K	205	VAL	N-CA-C	-5.95	99.68	108.85
8	f	164	LYS	O-C-N	5.95	129.69	122.96
8	f	317	TYR	CA-C-N	5.95	129.02	122.77
8	f	317	TYR	C-N-CA	5.95	129.02	122.77
8	l	206	ASP	CA-C-O	-5.95	114.26	121.05
8	n	91	ILE	CA-C-O	-5.95	114.95	121.92
1	G	566	ASP	CA-C-N	5.95	125.83	119.28
1	G	566	ASP	C-N-CA	5.95	125.83	119.28
8	a	346	ALA	N-CA-C	-5.95	100.00	109.76
8	f	296	ARG	NE-CZ-NH2	-5.95	113.84	119.20
1	G	222	TYR	CB-CG-CD2	-5.95	111.87	120.80
4	J	449	ALA	N-CA-C	-5.95	105.68	113.12
8	a	141	ILE	N-CA-C	-5.95	104.92	113.07

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	i	139	HIS	CA-CB-CG	5.95	119.75	113.80
1	A	219	ASP	CA-CB-CG	5.95	118.55	112.60
3	I	167	PRO	N-CA-CB	5.95	109.83	103.52
2	N	489	ILE	N-CA-C	-5.95	103.66	111.09
6	P	254	ARG	NE-CZ-NH1	-5.95	115.55	121.50
2	Q	12	LEU	N-CA-C	5.95	117.84	111.36
8	b	314	ASN	N-CA-C	-5.95	104.55	112.94
8	l	21	PHE	N-CA-C	5.95	117.84	111.36
8	i	197	GLN	OE1-CD-NE2	5.95	128.55	122.60
1	A	706	HIS	CB-CG-CD2	-5.95	123.47	131.20
1	C	740	ASN	CB-CA-C	-5.95	100.13	109.52
2	F	847	ARG	NE-CZ-NH2	5.95	124.55	119.20
8	e	115	HIS	CA-C-O	5.95	126.81	119.97
2	B	509	GLY	N-CA-C	-5.94	105.60	112.73
3	I	183	MET	CA-C-O	5.94	126.85	120.55
3	I	370	GLN	O-C-N	5.94	128.93	122.15
3	I	447	SER	N-CA-C	-5.94	100.04	109.07
7	W	618	CYS	CA-C-N	5.94	128.24	120.28
7	W	618	CYS	C-N-CA	5.94	128.24	120.28
8	a	263	THR	CB-CA-C	5.94	118.00	109.92
8	g	40	PHE	N-CA-C	-5.94	106.01	113.20
1	A	232	ILE	CA-C-N	5.94	129.91	121.42
1	A	232	ILE	C-N-CA	5.94	129.91	121.42
1	C	438	ILE	CA-CB-CG1	5.94	120.50	110.40
2	N	848	ILE	CA-C-O	-5.94	114.05	120.47
8	h	87	ASN	OD1-CG-ND2	5.94	128.54	122.60
8	n	19	PHE	N-CA-C	5.94	117.84	111.36
9	q	45	ILE	N-CA-C	-5.94	100.51	108.35
2	F	829	ASN	N-CA-C	5.94	118.71	111.82
2	H	586	ARG	CA-C-O	-5.94	115.25	120.60
3	I	414	LEU	CA-C-O	-5.94	115.10	121.45
8	h	195	LEU	CD1-CG-CD2	-5.94	97.73	110.80
4	J	779	VAL	CA-C-O	-5.94	114.56	120.85
3	K	166	PRO	CA-C-O	-5.94	111.95	120.56
8	l	235	ILE	CA-C-N	5.94	128.51	120.44
8	l	235	ILE	C-N-CA	5.94	128.51	120.44
1	E	329	PRO	CA-C-O	-5.93	110.60	119.86
5	L	413	HIS	CE1-NE2-CD2	-5.93	103.07	109.00
8	c	59	HIS	N-CA-CB	5.93	120.09	110.77
8	c	139	HIS	CA-CB-CG	5.93	119.73	113.80
8	c	307	THR	CA-CB-OG1	5.93	118.50	109.60
8	f	65	VAL	N-CA-C	-5.93	99.62	108.46

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	i	436	HIS	ND1-CE1-NE2	5.93	114.33	108.40
4	J	601	HIS	N-CA-CB	5.93	120.58	110.50
8	k	161	TYR	CA-C-O	-5.93	114.75	121.28
5	L	595	ILE	CA-C-N	5.93	128.48	120.65
5	L	595	ILE	C-N-CA	5.93	128.48	120.65
2	Q	98	LEU	CA-C-N	5.93	128.23	120.28
2	Q	98	LEU	C-N-CA	5.93	128.23	120.28
8	g	6	ILE	N-CA-CB	5.93	118.15	111.21
8	l	104	TRP	CA-C-N	5.93	132.92	121.18
8	l	104	TRP	C-N-CA	5.93	132.92	121.18
1	A	327	ILE	CA-C-O	-5.93	113.43	119.89
2	H	793	ARG	CA-C-O	5.93	126.70	120.42
4	J	282	ILE	N-CA-C	-5.93	99.58	108.12
1	M	363	PHE	CA-CB-CG	-5.93	107.87	113.80
8	a	32	SER	N-CA-C	-5.93	102.13	110.31
8	a	54	GLN	O-C-N	-5.93	115.86	122.86
8	g	40	PHE	N-CA-CB	5.93	120.03	110.42
1	M	550	LEU	O-C-N	-5.93	115.39	122.15
8	c	376	LEU	CA-C-N	5.93	131.18	123.00
8	c	376	LEU	C-N-CA	5.93	131.18	123.00
8	l	297	LEU	CA-C-N	5.93	132.04	122.14
8	l	297	LEU	C-N-CA	5.93	132.04	122.14
2	D	776	ALA	CA-C-O	5.93	126.78	119.79
2	F	599	ILE	CA-C-O	5.93	127.13	120.85
3	I	123	ASN	CA-C-N	5.93	128.71	120.29
3	I	123	ASN	C-N-CA	5.93	128.71	120.29
4	J	316	TYR	N-CA-C	-5.93	105.88	113.23
5	L	78	ASN	O-C-N	-5.93	115.84	122.12
2	N	551	ASN	CA-CB-CG	-5.93	106.67	112.60
2	O	18	CYS	CB-CA-C	-5.93	101.58	110.88
8	k	338	GLN	CA-CB-CG	5.93	125.95	114.10
8	a	383	ASN	CA-CB-CG	5.92	118.52	112.60
8	m	295	ARG	N-CA-C	-5.92	105.71	113.17
9	p	30	ASP	CA-C-N	5.92	128.22	120.28
9	p	30	ASP	C-N-CA	5.92	128.22	120.28
1	C	355	LEU	N-CA-CB	5.92	119.46	110.28
8	b	354	ALA	O-C-N	-5.92	116.00	123.17
8	i	90	ASN	CA-C-N	5.92	128.02	120.56
8	i	90	ASN	C-N-CA	5.92	128.02	120.56
2	B	660	LEU	O-C-N	5.92	128.90	122.15
2	D	378	LYS	CA-C-O	-5.92	114.14	120.42
4	J	964	HIS	CE1-NE2-CD2	-5.92	103.08	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
6	P	108	ALA	CA-C-N	5.92	127.24	119.84
6	P	108	ALA	C-N-CA	5.92	127.24	119.84
8	k	251	ASN	O-C-N	-5.92	114.29	122.46
8	m	412	ASP	O-C-N	-5.92	114.71	122.59
8	l	99	GLY	CA-C-N	5.92	128.14	120.44
8	l	99	GLY	C-N-CA	5.92	128.14	120.44
8	m	53	TYR	CA-C-O	5.92	127.79	121.16
8	n	299	GLN	CA-C-N	5.92	126.25	119.92
8	n	299	GLN	C-N-CA	5.92	126.25	119.92
9	r	26	ASN	CA-CB-CG	-5.92	106.68	112.60
1	M	219	ASP	CA-C-N	5.92	128.69	120.29
1	M	219	ASP	C-N-CA	5.92	128.69	120.29
2	N	450	ASP	CA-C-N	5.92	125.30	118.85
2	N	450	ASP	C-N-CA	5.92	125.30	118.85
8	i	216	ASP	CA-CB-CG	5.92	118.52	112.60
8	k	423	ASN	CA-CB-CG	5.92	118.52	112.60
8	n	171	VAL	O-C-N	-5.92	116.93	123.20
8	n	401	ARG	CA-C-O	5.92	126.27	119.35
1	A	702	GLU	CA-C-N	5.92	125.39	119.24
1	A	702	GLU	C-N-CA	5.92	125.39	119.24
2	H	609	ALA	CA-C-O	5.92	125.53	119.97
3	K	51	ASP	CA-CB-CG	5.92	118.52	112.60
5	L	68	VAL	CA-CB-CG1	5.92	120.46	110.40
1	M	533	LEU	CA-C-N	5.92	129.30	120.31
1	M	533	LEU	C-N-CA	5.92	129.30	120.31
1	M	837	ASP	O-C-N	-5.92	114.40	122.33
8	b	223	PRO	N-CA-CB	5.92	109.46	103.25
8	g	252	ASP	N-CA-CB	5.92	119.92	110.16
8	h	54	GLN	CA-C-N	5.92	129.68	120.75
8	h	54	GLN	C-N-CA	5.92	129.68	120.75
8	k	229	ASN	CA-CB-CG	5.92	118.52	112.60
1	G	649	HIS	CG-CD2-NE2	5.92	113.11	107.20
1	A	376	LEU	CA-C-N	5.91	128.13	120.44
1	A	376	LEU	C-N-CA	5.91	128.13	120.44
1	A	472	LYS	N-CA-C	-5.91	105.38	113.30
1	C	437	GLN	OE1-CD-NE2	-5.91	116.69	122.60
2	H	712	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
3	I	205	VAL	N-CA-C	-5.91	99.97	108.48
3	I	345	VAL	CA-CB-CG1	5.91	120.45	110.40
2	O	71	GLY	CA-C-N	5.91	128.13	120.44
2	O	71	GLY	C-N-CA	5.91	128.13	120.44
8	b	137	LEU	N-CA-CB	5.91	119.24	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	f	168	THR	N-CA-C	-5.91	100.26	109.72
8	f	436	HIS	CA-CB-CG	-5.91	107.89	113.80
8	h	115	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
8	h	187	ASN	CA-CB-CG	5.91	118.51	112.60
8	j	180	HIS	CA-CB-CG	-5.91	107.89	113.80
8	k	115	HIS	ND1-CE1-NE2	5.91	114.31	108.40
8	n	313	THR	N-CA-C	-5.91	105.65	114.64
1	C	688	PHE	CB-CA-C	-5.91	101.56	110.90
2	D	786	ASN	N-CA-C	5.91	118.68	111.82
5	L	335	ILE	CB-CA-C	-5.91	104.16	112.14
2	O	33	GLN	CB-CA-C	-5.91	100.98	110.79
2	S	18	CYS	N-CA-C	5.91	117.39	111.07
2	S	51	GLU	CA-C-N	5.91	128.48	120.44
2	S	51	GLU	C-N-CA	5.91	128.48	120.44
8	d	151	SER	CA-C-N	5.91	130.69	120.58
8	d	151	SER	C-N-CA	5.91	130.69	120.58
8	j	417	ASN	N-CA-C	-5.91	103.85	113.19
8	l	403	ALA	N-CA-CB	5.91	120.48	110.49
8	n	219	HIS	CG-CD2-NE2	5.91	113.11	107.20
2	B	864	LEU	CA-C-O	-5.91	114.29	120.55
2	D	328	HIS	CE1-NE2-CD2	-5.91	103.09	109.00
3	I	312	HIS	CG-CD2-NE2	5.91	113.11	107.20
8	d	307	THR	N-CA-C	-5.91	99.32	108.42
8	f	260	LEU	N-CA-C	-5.91	104.61	112.94
2	B	489	ILE	N-CA-C	-5.91	104.29	112.50
8	f	264	PRO	CA-C-N	5.91	131.21	122.82
8	f	264	PRO	C-N-CA	5.91	131.21	122.82
2	B	372	ASP	CA-CB-CG	5.91	118.50	112.60
2	H	872	LEU	CA-C-N	5.91	129.29	120.31
2	H	872	LEU	C-N-CA	5.91	129.29	120.31
3	I	523	LEU	N-CA-CB	5.91	118.75	110.07
4	J	325	LYS	CA-C-N	5.91	129.28	120.31
4	J	325	LYS	C-N-CA	5.91	129.28	120.31
1	M	445	VAL	CA-CB-CG2	-5.91	100.36	110.40
8	d	377	MET	N-CA-C	-5.91	100.08	109.59
8	n	365	PRO	N-CA-C	-5.91	108.54	114.68
1	M	372	GLN	N-CA-C	5.90	120.32	113.18
1	C	296	ARG	NE-CZ-NH1	5.90	127.40	121.50
1	C	401	ASP	CA-CB-CG	5.90	118.50	112.60
1	G	360	ASP	CB-CA-C	5.90	122.00	110.67
3	I	491	LEU	N-CA-C	-5.90	105.34	112.54
4	J	498	PHE	N-CA-C	-5.90	105.91	113.23

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	924	ILE	CA-CB-CG2	-5.90	100.47	110.50
8	b	399	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
8	n	59	HIS	N-CA-C	-5.90	98.66	108.75
8	n	76	SER	CA-C-N	5.90	132.59	121.97
8	n	76	SER	C-N-CA	5.90	132.59	121.97
1	C	481	GLN	CG-CD-NE2	-5.90	107.55	116.40
2	H	528	ALA	O-C-N	-5.90	114.03	122.41
3	K	295	ARG	CA-C-N	5.90	128.67	120.29
3	K	295	ARG	C-N-CA	5.90	128.67	120.29
2	T	51	GLU	N-CA-CB	5.90	118.79	110.12
8	a	220	ILE	CA-CB-CG2	-5.90	100.47	110.50
8	d	67	LEU	N-CA-C	-5.90	99.78	109.40
8	g	266	LEU	N-CA-C	-5.90	98.23	110.80
8	g	425	ARG	NE-CZ-NH2	-5.90	113.89	119.20
8	j	381	HIS	CB-CG-CD2	-5.90	123.53	131.20
2	F	831	ARG	CA-C-N	5.90	128.54	120.46
2	F	831	ARG	C-N-CA	5.90	128.54	120.46
8	g	313	THR	N-CA-C	-5.90	103.77	113.50
2	B	605	ARG	NH1-CZ-NH2	-5.90	111.63	119.30
1	C	411	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
2	F	285	SER	N-CA-C	-5.90	105.27	112.88
1	G	308	GLN	CA-C-O	5.90	126.75	119.97
8	j	163	LYS	N-CA-C	-5.90	105.58	112.89
8	m	20	GLU	CA-C-N	5.90	128.46	120.44
8	m	20	GLU	C-N-CA	5.90	128.46	120.44
4	J	876	HIS	CE1-NE2-CD2	-5.90	103.10	109.00
8	c	331	THR	N-CA-C	-5.90	105.74	113.17
3	I	278	PHE	CA-CB-CG	-5.89	107.91	113.80
8	c	335	LYS	CA-C-N	5.89	128.66	120.29
8	c	335	LYS	C-N-CA	5.89	128.66	120.29
1	E	315	GLN	CB-CG-CD	5.89	122.62	112.60
1	G	314	ARG	CB-CA-C	-5.89	101.89	110.96
1	M	718	ILE	CA-CB-CG1	5.89	120.42	110.40
2	N	655	CYS	N-CA-C	-5.89	103.56	112.04
8	f	259	SER	N-CA-C	-5.89	105.67	112.92
8	h	371	HIS	CA-C-O	5.89	124.96	118.65
1	A	644	MET	CB-CA-C	-5.89	99.92	110.70
1	C	684	ARG	NE-CZ-NH2	5.89	124.50	119.20
2	D	433	ILE	CA-C-O	-5.89	114.41	120.71
5	L	1427	THR	CA-C-N	5.89	125.90	119.89
5	L	1427	THR	C-N-CA	5.89	125.90	119.89
1	M	744	LEU	CA-C-N	5.89	128.17	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	M	744	LEU	C-N-CA	5.89	128.17	120.28
1	A	857	ILE	CA-CB-CG1	5.89	120.41	110.40
5	L	182	GLN	N-CA-C	5.89	117.70	111.28
8	m	33	PRO	N-CA-CB	-5.89	97.86	102.28
2	D	701	HIS	ND1-CE1-NE2	5.89	114.29	108.40
3	I	312	HIS	CE1-NE2-CD2	-5.89	103.11	109.00
1	M	822	SER	N-CA-C	-5.89	105.86	114.39
2	N	612	ASP	N-CA-C	5.89	117.70	111.28
8	g	115	HIS	CB-CG-CD2	-5.89	123.55	131.20
8	k	56	ASP	N-CA-C	-5.89	103.79	113.50
8	l	234	THR	CA-CB-OG1	5.89	118.43	109.60
8	n	157	LEU	CB-CA-C	-5.89	99.42	110.01
9	t	46	ASN	O-C-N	-5.88	116.56	121.38
2	B	328	HIS	CG-CD2-NE2	5.88	113.08	107.20
1	C	727	SER	CA-C-N	5.88	128.16	120.28
1	C	727	SER	C-N-CA	5.88	128.16	120.28
3	I	593	CYS	N-CA-CB	5.88	118.50	109.91
5	L	323	ASP	O-C-N	-5.88	115.89	122.12
5	L	1452	ASP	CA-CB-CG	5.88	118.48	112.60
1	M	570	ASP	CA-C-N	5.88	132.20	122.73
1	M	570	ASP	C-N-CA	5.88	132.20	122.73
2	N	337	LEU	N-CA-C	5.88	117.69	111.28
8	c	253	LEU	N-CA-C	-5.88	104.82	112.23
8	f	436	HIS	CG-CD2-NE2	5.88	113.08	107.20
9	q	64	LEU	CA-C-N	5.88	132.29	121.70
9	q	64	LEU	C-N-CA	5.88	132.29	121.70
2	N	649	THR	CA-CB-OG1	5.88	118.42	109.60
8	f	372	ARG	NE-CZ-NH2	-5.88	113.91	119.20
8	i	202	VAL	CA-CB-CG2	5.88	120.40	110.40
8	j	25	LEU	N-CA-C	-5.88	104.82	112.23
1	E	573	LYS	N-CA-CB	5.88	120.22	110.52
5	L	1679	GLN	CA-C-N	5.88	125.58	119.82
5	L	1679	GLN	C-N-CA	5.88	125.58	119.82
8	c	267	HIS	CA-C-N	5.88	130.75	121.99
8	c	267	HIS	C-N-CA	5.88	130.75	121.99
8	i	425	ARG	NE-CZ-NH1	-5.88	115.62	121.50
8	m	82	TYR	N-CA-C	-5.88	103.83	111.71
9	p	43	GLN	CA-C-N	5.88	130.45	121.51
9	p	43	GLN	C-N-CA	5.88	130.45	121.51
1	A	241	GLN	OE1-CD-NE2	5.88	128.48	122.60
1	A	434	VAL	CA-C-O	-5.88	115.50	121.67
1	E	373	GLU	N-CA-C	5.88	118.64	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	702	MET	CG-SD-CE	-5.88	87.97	100.90
1	M	469	PRO	CA-C-O	-5.88	114.64	121.34
1	M	672	ALA	N-CA-C	-5.88	100.71	109.94
6	P	327	ILE	N-CA-C	-5.88	99.88	108.11
1	E	866	PHE	N-CA-C	-5.88	105.42	112.59
8	b	168	THR	N-CA-C	-5.88	100.32	109.72
8	l	353	PRO	N-CA-C	5.88	124.57	112.47
8	l	70	GLU	N-CA-C	-5.87	100.00	109.40
1	C	346	LYS	N-CA-C	-5.87	106.16	113.38
2	F	391	LYS	CA-C-N	5.87	125.92	120.34
2	F	391	LYS	C-N-CA	5.87	125.92	120.34
4	J	282	ILE	CA-CB-CG2	-5.87	100.52	110.50
1	M	705	TRP	CA-C-O	5.87	126.72	119.97
8	k	324	ILE	CA-CB-CG1	-5.87	100.42	110.40
8	n	408	PHE	CA-C-O	5.87	126.05	119.41
2	D	503	SER	N-CA-C	-5.87	100.83	109.81
3	I	82	HIS	CG-CD2-NE2	5.87	113.07	107.20
8	e	160	ARG	CA-C-N	5.87	129.98	122.64
8	e	160	ARG	C-N-CA	5.87	129.98	122.64
1	E	539	LYS	CA-C-N	5.87	128.55	120.39
1	E	539	LYS	C-N-CA	5.87	128.55	120.39
5	L	229	ASP	N-CA-C	-5.87	105.88	114.39
8	m	103	ASN	CA-CB-CG	5.87	118.47	112.60
8	m	173	PRO	O-C-N	-5.87	116.11	123.21
2	T	16	LEU	CA-C-O	-5.87	114.33	120.55
7	V	614	PHE	CA-CB-CG	-5.87	107.93	113.80
8	h	315	HIS	CE1-NE2-CD2	-5.87	103.13	109.00
1	G	565	THR	CA-C-N	5.87	127.04	120.06
1	G	565	THR	C-N-CA	5.87	127.04	120.06
2	H	833	GLN	CA-C-O	-5.87	114.20	120.42
3	I	339	HIS	ND1-CE1-NE2	5.87	114.27	108.40
8	m	183	VAL	CA-C-N	5.87	127.42	120.09
8	m	183	VAL	C-N-CA	5.87	127.42	120.09
8	n	169	TYR	CB-CA-C	-5.87	103.14	112.05
2	B	490	ASN	OD1-CG-ND2	-5.86	116.74	122.60
7	X	622	ILE	CA-C-N	5.86	128.80	120.53
7	X	622	ILE	C-N-CA	5.86	128.80	120.53
8	a	131	SER	N-CA-C	-5.86	98.31	110.80
8	h	230	GLN	N-CA-C	-5.86	104.30	112.45
9	p	54	ILE	CA-CB-CG2	5.86	120.47	110.50
7	U	666	ARG	N-CA-C	5.86	117.67	111.28
8	c	300	PRO	N-CA-CB	5.86	109.41	103.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	511	HIS	CE1-NE2-CD2	-5.86	103.14	109.00
2	H	803	LEU	CA-C-N	5.86	130.51	120.72
2	H	803	LEU	C-N-CA	5.86	130.51	120.72
3	K	258	SER	O-C-N	-5.86	117.15	123.42
5	L	331	GLY	CA-C-N	5.86	126.48	119.98
5	L	331	GLY	C-N-CA	5.86	126.48	119.98
8	b	18	GLY	CA-C-N	5.86	128.41	120.44
8	b	18	GLY	C-N-CA	5.86	128.41	120.44
1	C	722	LEU	O-C-N	-5.86	115.47	122.15
2	N	866	THR	N-CA-CB	5.86	119.03	109.95
8	d	417	ASN	OD1-CG-ND2	-5.86	116.74	122.60
8	c	299	GLN	N-CA-C	-5.86	97.84	108.85
8	g	93	LEU	N-CA-C	-5.86	97.68	107.99
2	B	865	THR	CA-C-N	-5.86	114.64	122.72
2	B	865	THR	C-N-CA	-5.86	114.64	122.72
5	L	111	ALA	CB-CA-C	-5.86	101.07	110.79
7	X	661	ARG	N-CA-C	5.86	117.66	111.28
2	F	885	TYR	CA-C-O	-5.85	110.85	120.80
8	g	347	ASN	N-CA-C	-5.85	100.12	109.96
3	K	335	THR	N-CA-C	5.85	118.61	111.82
8	a	332	GLN	N-CA-C	-5.85	104.80	112.41
3	I	203	PHE	CA-CB-CG	5.85	119.65	113.80
3	K	565	SER	CA-C-O	-5.85	112.18	119.38
5	L	12	CYS	N-CA-C	5.85	117.74	111.36
1	A	525	ASP	CA-CB-CG	5.85	118.45	112.60
2	F	594	HIS	CG-CD2-NE2	5.85	113.05	107.20
5	L	475	ALA	N-CA-C	-5.85	104.90	112.68
8	a	36	ILE	N-CA-CB	5.85	117.50	110.95
8	a	73	VAL	N-CA-C	5.85	118.40	111.09
2	F	581	LYS	N-CA-CB	5.85	119.01	110.30
9	s	46	ASN	N-CA-CB	5.85	119.26	110.02
2	F	789	ASP	CA-CB-CG	5.85	118.45	112.60
4	J	377	GLU	N-CA-C	-5.85	104.27	111.40
5	L	240	ASN	CA-CB-CG	5.85	118.45	112.60
8	e	408	PHE	CA-CB-CG	5.85	119.65	113.80
8	k	128	GLY	CA-C-N	5.85	130.02	121.31
8	k	128	GLY	C-N-CA	5.85	130.02	121.31
1	A	398	ILE	CA-C-N	5.84	131.18	123.11
1	A	398	ILE	C-N-CA	5.84	131.18	123.11
2	B	805	PHE	CA-CB-CG	5.84	119.64	113.80
2	D	520	GLU	CA-C-N	5.84	132.71	121.54
2	D	520	GLU	C-N-CA	5.84	132.71	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	311	HIS	CE1-NE2-CD2	-5.84	103.16	109.00
4	J	395	LEU	N-CA-C	-5.84	105.97	112.57
3	K	206	ARG	NE-CZ-NH1	-5.84	115.66	121.50
3	K	566	ASN	OD1-CG-ND2	-5.84	116.76	122.60
2	N	514	SER	CA-C-N	5.84	125.54	119.05
2	N	514	SER	C-N-CA	5.84	125.54	119.05
8	d	198	ASN	CA-C-O	5.84	125.46	119.97
9	q	42	GLU	N-CA-C	5.84	118.60	111.82
9	s	32	GLU	N-CA-CB	5.84	118.71	110.12
2	D	575	HIS	CA-CB-CG	-5.84	107.96	113.80
2	D	456	ASP	CA-C-N	5.84	129.00	120.71
2	D	456	ASP	C-N-CA	5.84	129.00	120.71
1	G	743	LEU	N-CA-C	-5.84	105.04	111.82
5	L	1532	LEU	CA-C-N	5.84	130.22	120.64
5	L	1532	LEU	C-N-CA	5.84	130.22	120.64
9	s	13	GLU	N-CA-CB	-5.84	101.52	110.16
1	G	854	MET	CA-C-O	5.84	126.69	119.97
6	P	337	TYR	CA-CB-CG	-5.84	103.39	113.90
8	l	37	VAL	N-CA-CB	5.84	120.86	111.23
8	m	149	LEU	O-C-N	5.84	130.16	122.33
2	H	792	TYR	N-CA-CB	5.84	118.80	110.16
2	B	416	HIS	ND1-CE1-NE2	5.84	114.24	108.40
2	B	847	ARG	CA-C-O	5.84	126.56	119.38
2	D	692	GLY	N-CA-C	-5.84	106.47	114.64
2	H	594	HIS	CA-CB-CG	5.84	119.64	113.80
2	N	266	LYS	N-CA-C	-5.84	105.35	112.88
8	a	84	ASN	CA-C-O	5.84	126.18	119.35
8	a	311	ARG	N-CA-C	-5.84	103.59	112.99
8	c	286	ARG	NE-CZ-NH2	-5.84	113.95	119.20
8	d	428	VAL	N-CA-C	5.84	116.62	110.72
8	g	318	ILE	CB-CA-C	-5.84	105.19	110.91
8	h	113	LYS	O-C-N	-5.84	115.18	122.24
5	L	1601	PHE	CA-CB-CG	5.83	119.64	113.80
8	g	29	HIS	ND1-CE1-NE2	5.83	114.23	108.40
8	l	395	TYR	O-C-N	-5.83	114.55	122.19
1	C	486	ARG	NE-CZ-NH2	-5.83	113.95	119.20
1	C	503	MET	CA-C-N	5.83	128.56	120.63
1	C	503	MET	C-N-CA	5.83	128.56	120.63
4	J	304	ASN	O-C-N	5.83	128.80	122.15
5	L	351	THR	CA-C-N	5.83	130.46	120.72
5	L	351	THR	C-N-CA	5.83	130.46	120.72
5	L	410	ARG	CA-C-O	5.83	126.67	119.79

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	1433	ASN	CA-CB-CG	5.83	118.43	112.60
2	N	745	HIS	CA-CB-CG	-5.83	107.97	113.80
2	T	29	ALA	N-CA-C	5.83	117.64	111.28
8	h	251	ASN	CA-CB-CG	5.83	118.43	112.60
8	j	79	ASN	N-CA-C	-5.83	105.36	112.88
8	k	365	PRO	CB-CA-C	-5.83	102.59	110.52
8	m	414	PHE	CA-CB-CG	-5.83	107.97	113.80
2	D	621	ASP	CA-C-N	5.83	130.78	123.14
2	D	621	ASP	C-N-CA	5.83	130.78	123.14
3	K	169	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
2	N	661	ARG	NH1-CZ-NH2	-5.83	111.72	119.30
8	e	20	GLU	CA-C-N	5.83	128.57	120.29
8	e	20	GLU	C-N-CA	5.83	128.57	120.29
8	j	86	TYR	O-C-N	5.83	129.60	122.84
1	C	486	ARG	NH1-CZ-NH2	5.83	126.88	119.30
4	J	281	LEU	N-CA-C	-5.83	105.83	113.17
4	J	955	VAL	CB-CA-C	-5.83	104.51	111.97
8	a	338	GLN	CA-C-O	5.83	126.60	120.42
8	e	437	ALA	CB-CA-C	-5.83	101.75	110.50
1	G	845	TYR	CB-CG-CD1	5.83	129.54	120.80
4	J	876	HIS	ND1-CE1-NE2	5.83	114.23	108.40
8	a	435	TYR	O-C-N	5.83	128.07	122.07
8	g	256	LEU	O-C-N	5.83	128.79	122.15
8	l	51	PHE	CA-C-O	5.83	126.06	119.18
5	L	380	VAL	CA-C-N	5.83	129.04	120.82
5	L	380	VAL	C-N-CA	5.83	129.04	120.82
1	A	311	HIS	CA-CB-CG	-5.83	107.97	113.80
1	C	469	PRO	CA-C-O	-5.83	114.80	121.56
2	F	591	LEU	N-CA-C	-5.83	104.84	112.41
2	H	303	ILE	CA-CB-CG1	5.83	120.31	110.40
4	J	393	ILE	N-CA-C	-5.83	107.61	113.20
3	K	200	TYR	CA-C-N	5.83	130.67	122.46
3	K	200	TYR	C-N-CA	5.83	130.67	122.46
1	M	757	PHE	CA-CB-CG	5.83	119.62	113.80
1	A	506	GLU	CA-C-N	5.82	131.63	122.78
1	A	506	GLU	C-N-CA	5.82	131.63	122.78
2	B	757	ILE	N-CA-C	-5.82	104.65	111.00
1	M	369	SER	CA-C-O	5.82	126.54	119.38
7	W	621	ASP	CA-CB-CG	5.82	118.42	112.60
8	b	124	ARG	NE-CZ-NH1	-5.82	115.68	121.50
8	c	205	LEU	N-CA-C	-5.82	98.38	108.69
8	l	315	HIS	CA-CB-CG	5.82	119.62	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	m	402	GLU	CA-C-O	-5.82	114.75	122.03
1	M	548	THR	CA-C-O	5.82	126.70	120.24
8	g	385	SER	CA-C-N	5.82	129.16	120.31
8	g	385	SER	C-N-CA	5.82	129.16	120.31
8	l	252	ASP	N-CA-CB	5.82	119.81	110.85
1	A	727	SER	CA-C-O	5.82	126.59	120.42
2	B	848	ILE	N-CA-C	-5.82	104.14	112.35
1	E	824	ILE	N-CA-CB	5.82	120.28	110.56
1	G	682	ARG	CA-C-N	5.82	129.16	120.31
1	G	682	ARG	C-N-CA	5.82	129.16	120.31
4	J	372	LYS	N-CA-C	-5.82	105.67	112.89
7	V	650	ASN	CA-C-O	5.82	127.30	120.20
8	n	136	VAL	N-CA-C	-5.82	99.36	107.80
2	B	514	SER	O-C-N	5.82	125.66	120.48
1	E	549	ARG	CB-CG-CD	5.82	124.68	111.30
8	a	100	ALA	CA-C-N	5.82	132.17	121.70
8	a	100	ALA	C-N-CA	5.82	132.17	121.70
8	b	350	PRO	N-CA-C	-5.82	104.86	114.75
8	i	246	PRO	O-C-N	5.82	129.20	123.03
3	I	144	LYS	N-CA-C	5.82	120.38	113.28
4	J	245	HIS	CA-CB-CG	5.82	119.62	113.80
7	V	645	GLU	N-CA-C	5.82	117.62	111.28
8	e	31	ILE	CA-C-N	5.82	129.52	120.68
8	e	31	ILE	C-N-CA	5.82	129.52	120.68
1	A	702	GLU	CA-C-O	-5.82	112.19	120.16
2	D	275	LYS	N-CA-C	-5.82	99.68	108.52
8	f	171	VAL	N-CA-CB	5.82	119.20	111.64
8	g	218	LEU	N-CA-C	-5.82	106.83	114.04
9	o	15	MET	CA-C-N	5.82	128.35	120.44
9	o	15	MET	C-N-CA	5.82	128.35	120.44
9	s	12	ARG	NE-CZ-NH2	5.82	124.44	119.20
8	l	193	LYS	CB-CA-C	-5.81	100.97	110.85
8	m	411	GLU	CB-CG-CD	5.81	122.48	112.60
1	A	848	SER	N-CA-C	5.81	117.70	111.36
3	I	503	HIS	CE1-NE2-CD2	-5.81	103.19	109.00
3	K	500	GLN	CA-C-N	5.81	129.15	120.31
3	K	500	GLN	C-N-CA	5.81	129.15	120.31
5	L	1538	ASN	CA-C-N	5.81	132.16	121.70
5	L	1538	ASN	C-N-CA	5.81	132.16	121.70
2	Q	48	GLU	CA-C-N	5.81	131.00	122.63
2	Q	48	GLU	C-N-CA	5.81	131.00	122.63
8	c	329	ASP	CA-CB-CG	5.81	118.41	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	h	383	ASN	O-C-N	-5.81	114.93	122.37
2	F	264	PHE	CA-C-N	5.81	128.29	120.50
2	F	264	PHE	C-N-CA	5.81	128.29	120.50
2	D	514	SER	CA-C-N	5.81	125.50	119.05
2	D	514	SER	C-N-CA	5.81	125.50	119.05
4	J	559	GLY	CA-C-N	5.81	127.99	120.44
4	J	559	GLY	C-N-CA	5.81	127.99	120.44
8	d	130	ASP	N-CA-C	-5.81	98.43	110.80
8	n	401	ARG	CA-C-N	5.81	130.41	122.34
8	n	401	ARG	C-N-CA	5.81	130.41	122.34
2	N	575	HIS	ND1-CE1-NE2	5.81	114.21	108.40
8	b	126	ALA	N-CA-C	5.81	117.26	110.41
8	c	247	GLY	N-CA-C	-5.81	99.42	113.18
8	j	7	THR	CA-C-N	5.81	131.95	123.12
8	j	7	THR	C-N-CA	5.81	131.95	123.12
8	n	367	LEU	O-C-N	-5.81	115.25	120.71
9	o	35	SER	CA-C-N	5.81	127.88	120.56
9	o	35	SER	C-N-CA	5.81	127.88	120.56
8	b	52	PHE	CA-C-N	5.81	129.12	120.87
8	b	52	PHE	C-N-CA	5.81	129.12	120.87
8	d	63	ARG	N-CA-CB	5.81	119.23	110.11
8	d	425	ARG	NE-CZ-NH1	5.81	127.31	121.50
8	i	87	ASN	O-C-N	-5.81	115.81	121.38
8	m	3	ARG	N-CA-C	-5.81	103.47	110.44
1	A	287	VAL	CA-C-N	5.80	130.41	120.72
1	A	287	VAL	C-N-CA	5.80	130.41	120.72
2	B	409	TYR	CB-CA-C	-5.80	101.52	110.81
2	B	605	ARG	NE-CZ-NH2	5.80	124.42	119.20
8	b	381	HIS	N-CA-C	-5.80	100.43	109.72
8	j	364	SER	CA-C-O	-5.80	114.13	120.17
5	L	392	ASP	N-CA-C	-5.80	105.50	112.58
2	S	69	ALA	CA-C-O	5.80	126.70	120.55
8	a	391	THR	CA-CB-OG1	5.80	118.30	109.60
8	b	32	SER	CA-C-O	-5.80	114.13	120.69
8	d	65	VAL	N-CA-CB	5.80	119.99	111.52
8	j	211	ASN	CA-CB-CG	-5.80	106.80	112.60
8	k	22	TRP	CB-CG-CD1	5.80	135.60	126.90
6	P	12	ASN	CB-CG-ND2	-5.80	107.70	116.40
8	f	22	TRP	N-CA-C	5.80	118.55	111.82
8	j	174	ASN	OD1-CG-ND2	-5.80	116.80	122.60
8	l	371	HIS	CE1-NE2-CD2	-5.80	103.20	109.00
8	m	203	VAL	CA-C-N	5.80	129.62	122.37

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	m	203	VAL	C-N-CA	5.80	129.62	122.37
1	E	445	VAL	N-CA-C	-5.80	104.44	112.50
1	E	562	THR	N-CA-CB	5.80	120.29	110.49
2	H	742	ASP	CA-C-N	5.80	132.19	121.52
2	H	742	ASP	C-N-CA	5.80	132.19	121.52
7	W	604	LYS	CA-C-N	5.80	127.98	120.44
7	W	604	LYS	C-N-CA	5.80	127.98	120.44
7	W	616	GLU	N-CA-C	-5.80	105.04	111.36
4	J	242	TRP	N-CA-C	-5.80	104.87	111.07
5	L	327	LYS	CA-C-N	5.80	128.32	120.44
5	L	327	LYS	C-N-CA	5.80	128.32	120.44
2	N	279	LYS	CA-C-N	5.80	130.12	121.77
2	N	279	LYS	C-N-CA	5.80	130.12	121.77
7	X	651	GLU	N-CA-C	5.80	117.60	111.28
8	k	48	LYS	CA-C-O	5.80	126.69	120.55
8	k	254	ILE	CA-C-O	5.80	126.75	119.39
8	l	225	PHE	CA-C-O	-5.80	115.09	121.58
1	A	244	SER	CA-C-O	5.79	127.66	121.05
2	F	728	CYS	CA-C-O	-5.79	112.25	119.38
2	H	451	PRO	O-C-N	5.79	130.09	122.27
1	C	363	PHE	CA-C-O	-5.79	114.73	120.70
1	C	614	SER	CA-C-N	5.79	129.59	121.02
1	C	614	SER	C-N-CA	5.79	129.59	121.02
3	K	34	LEU	N-CA-C	-5.79	98.64	108.26
2	N	409	TYR	CB-CA-C	-5.79	101.58	109.28
8	e	288	THR	CA-C-N	5.79	133.49	121.32
8	e	288	THR	C-N-CA	5.79	133.49	121.32
8	j	304	MET	N-CA-C	-5.79	105.52	112.59
2	B	331	LEU	N-CA-C	5.79	117.67	111.36
3	K	130	HIS	ND1-CE1-NE2	5.79	114.19	108.40
2	N	668	ARG	CA-C-N	5.79	128.29	120.65
2	N	668	ARG	C-N-CA	5.79	128.29	120.65
8	j	341	ARG	NE-CZ-NH1	5.79	127.29	121.50
9	q	14	THR	N-CA-CB	5.79	118.73	110.16
9	s	16	ASP	CA-C-N	5.79	128.64	120.42
9	s	16	ASP	C-N-CA	5.79	128.64	120.42
6	P	37	ARG	CA-C-O	-5.79	113.99	119.55
8	g	57	ASP	CA-C-N	5.79	130.39	122.34
8	g	57	ASP	C-N-CA	5.79	130.39	122.34
8	l	87	ASN	OD1-CG-ND2	5.79	128.39	122.60
2	B	465	LEU	N-CA-C	5.79	119.52	112.23
1	C	490	ALA	N-CA-C	5.79	117.59	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	541	SER	CA-C-N	-5.79	111.01	121.14
3	I	541	SER	C-N-CA	-5.79	111.01	121.14
4	J	681	THR	N-CA-C	-5.79	104.57	111.69
5	L	404	TYR	CB-CG-CD1	-5.79	112.12	120.80
5	L	1396	PHE	CB-CA-C	-5.79	101.01	110.85
5	L	1404	LEU	CA-C-N	5.79	130.39	122.34
5	L	1404	LEU	C-N-CA	5.79	130.39	122.34
1	M	755	VAL	N-CA-C	5.79	116.56	110.72
8	e	96	HIS	CA-CB-CG	-5.79	108.01	113.80
8	h	245	TYR	CA-C-O	-5.79	113.52	120.41
9	p	21	ILE	O-C-N	5.79	127.48	121.87
8	c	276	LEU	N-CA-C	-5.79	104.93	113.61
2	F	511	SER	N-CA-CB	5.79	118.63	110.12
1	G	529	HIS	CG-CD2-NE2	5.79	112.99	107.20
2	Q	83	SER	O-C-N	5.79	129.39	122.27
8	f	131	SER	N-CA-CB	5.79	120.27	110.49
8	l	334	HIS	CE1-NE2-CD2	-5.79	103.21	109.00
1	A	479	LYS	O-C-N	5.78	129.57	123.03
2	B	426	LEU	N-CA-CB	5.78	119.83	110.40
2	H	362	THR	CA-C-O	-5.78	115.40	121.99
8	c	275	PRO	N-CA-CB	5.78	106.87	102.36
7	V	662	GLU	O-C-N	5.78	128.25	122.12
3	I	580	HIS	CE1-NE2-CD2	-5.78	103.22	109.00
5	L	1625	LYS	CA-C-N	5.78	128.50	120.29
5	L	1625	LYS	C-N-CA	5.78	128.50	120.29
8	l	345	LEU	CA-C-N	5.78	129.48	120.75
8	l	345	LEU	C-N-CA	5.78	129.48	120.75
8	m	286	ARG	NE-CZ-NH2	-5.78	114.00	119.20
1	E	714	SER	N-CA-CB	-5.78	102.90	110.59
8	c	219	HIS	CG-CD2-NE2	5.78	112.98	107.20
8	l	204	VAL	CA-C-N	5.78	130.92	122.77
8	l	204	VAL	C-N-CA	5.78	130.92	122.77
2	D	878	ARG	NE-CZ-NH1	5.78	127.28	121.50
1	G	534	THR	CA-C-N	5.78	128.49	120.29
1	G	534	THR	C-N-CA	5.78	128.49	120.29
1	M	445	VAL	CA-CB-CG1	5.78	120.22	110.40
6	P	120	THR	CA-CB-CG2	5.78	120.32	110.50
7	W	626	GLN	N-CA-C	5.78	117.25	111.07
8	f	416	ASP	N-CA-C	-5.78	101.97	110.52
1	A	719	ASP	O-C-N	-5.78	114.59	122.33
2	D	273	CYS	O-C-N	5.78	129.45	122.35
1	G	345	ASN	CA-C-O	5.78	126.61	119.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	342	HIS	CA-CB-CG	5.78	119.58	113.80
2	H	692	GLY	N-CA-C	-5.78	99.49	113.18
3	K	169	ARG	NE-CZ-NH1	5.78	127.28	121.50
2	N	277	ASP	N-CA-C	-5.78	106.09	114.12
9	o	22	SER	O-C-N	5.78	128.24	122.12
8	a	44	GLY	CA-C-N	-5.77	114.97	123.05
8	a	44	GLY	C-N-CA	-5.77	114.97	123.05
8	c	196	THR	CA-CB-OG1	5.77	118.26	109.60
2	S	80	LYS	CA-C-N	5.77	128.01	120.28
2	S	80	LYS	C-N-CA	5.77	128.01	120.28
8	a	248	TYR	CB-CA-C	5.77	119.25	109.55
8	n	85	LEU	N-CA-C	-5.77	105.07	111.36
2	B	520	GLU	CA-C-N	5.77	128.01	120.28
2	B	520	GLU	C-N-CA	5.77	128.01	120.28
4	J	766	PRO	CA-C-N	5.77	132.56	121.54
4	J	766	PRO	C-N-CA	5.77	132.56	121.54
1	M	359	HIS	CE1-NE2-CD2	-5.77	103.23	109.00
8	i	53	TYR	CA-C-N	5.77	129.04	120.90
8	i	53	TYR	C-N-CA	5.77	129.04	120.90
5	L	365	VAL	O-C-N	5.77	129.69	122.59
8	e	194	ARG	NE-CZ-NH2	-5.77	114.01	119.20
8	j	171	VAL	N-CA-C	-5.77	99.23	107.77
8	m	36	ILE	CA-CB-CG1	5.77	120.21	110.40
3	K	21	LYS	CA-C-O	5.77	126.55	119.05
5	L	1495	ILE	CB-CA-C	5.77	118.06	110.91
1	M	627	LEU	CA-C-N	5.77	129.78	120.55
1	M	627	LEU	C-N-CA	5.77	129.78	120.55
8	b	41	ALA	CA-C-N	5.77	132.28	122.36
8	b	41	ALA	C-N-CA	5.77	132.28	122.36
8	c	92	TYR	N-CA-C	-5.77	101.98	110.52
8	c	150	GLY	N-CA-C	-5.77	107.18	114.16
8	n	136	VAL	CB-CA-C	5.77	119.38	110.96
9	p	60	ALA	CA-C-O	-5.77	114.76	120.70
9	t	61	SER	CA-C-N	5.77	128.01	120.28
9	t	61	SER	C-N-CA	5.77	128.01	120.28
5	L	418	THR	N-CA-C	-5.77	105.90	113.17
5	L	1379	ASN	CA-C-O	5.77	126.60	119.97
8	f	72	ARG	NE-CZ-NH1	5.77	127.27	121.50
8	a	102	ASN	CA-C-N	5.76	131.80	122.29
8	a	102	ASN	C-N-CA	5.76	131.80	122.29
1	C	480	GLU	O-C-N	-5.76	116.44	123.30
2	N	594	HIS	CG-CD2-NE2	5.76	112.96	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	760	ARG	N-CA-C	-5.76	106.09	113.23
5	L	1685	PHE	CA-CB-CG	-5.76	108.04	113.80
2	N	687	ALA	N-CA-C	5.76	118.50	111.82
7	V	648	SER	O-C-N	5.76	130.41	122.46
8	c	242	THR	CA-C-O	5.76	125.39	119.05
8	i	386	SER	CA-C-O	5.76	126.53	120.42
6	P	78	ASN	OD1-CG-ND2	5.76	128.36	122.60
8	e	151	SER	CA-C-N	5.76	130.43	120.58
8	e	151	SER	C-N-CA	5.76	130.43	120.58
8	m	60	TYR	CA-CB-CG	-5.76	103.53	113.90
1	E	755	VAL	CA-C-O	-5.76	114.25	120.47
2	F	457	ARG	O-C-N	5.76	130.09	122.95
6	P	181	ALA	N-CA-C	-5.76	100.60	109.52
1	A	464	HIS	N-CA-CB	5.76	119.08	110.22
1	E	390	LEU	CA-C-O	-5.76	114.78	120.82
8	b	310	ASP	CA-CB-CG	5.76	118.36	112.60
2	B	853	TYR	N-CA-CB	-5.75	101.64	110.16
2	N	253	LEU	CA-C-O	5.75	126.59	119.97
2	N	439	GLU	N-CA-C	-5.75	104.83	112.94
7	U	645	GLU	N-CA-CB	-5.75	101.67	110.01
8	b	371	HIS	CA-C-N	5.75	130.85	122.85
8	b	371	HIS	C-N-CA	5.75	130.85	122.85
8	j	219	HIS	CA-CB-CG	-5.75	108.05	113.80
8	m	226	SER	CA-C-N	5.75	130.97	121.99
8	m	226	SER	C-N-CA	5.75	130.97	121.99
1	C	864	ASN	CB-CA-C	-5.75	99.62	110.67
2	D	441	THR	N-CA-C	-5.75	104.49	112.03
2	F	715	HIS	CG-CD2-NE2	5.75	112.95	107.20
1	G	454	LYS	N-CA-C	5.75	117.55	111.28
2	O	49	ARG	N-CA-C	-5.75	99.81	109.07
1	C	537	GLU	CA-C-N	5.75	131.23	122.08
1	C	537	GLU	C-N-CA	5.75	131.23	122.08
1	C	677	GLY	CA-C-O	5.75	126.63	120.30
2	F	386	HIS	CB-CG-CD2	-5.75	123.72	131.20
2	R	80	LYS	CA-C-N	5.75	127.99	120.28
2	R	80	LYS	C-N-CA	5.75	127.99	120.28
4	J	776	PHE	N-CA-CB	5.75	120.21	110.49
2	N	298	TRP	N-CA-C	5.75	119.56	112.54
8	c	27	ALA	N-CA-CB	5.75	119.19	110.28
1	A	834	HIS	CA-C-N	5.75	129.05	120.31
1	A	834	HIS	C-N-CA	5.75	129.05	120.31
1	C	354	THR	N-CA-C	-5.75	105.09	111.36

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	335	TYR	N-CA-C	-5.75	104.99	112.23
2	H	416	HIS	CG-CD2-NE2	5.75	112.95	107.20
8	h	225	PHE	CA-CB-CG	-5.75	108.05	113.80
2	B	378	LYS	CA-C-N	5.75	128.45	120.29
2	B	378	LYS	C-N-CA	5.75	128.45	120.29
5	L	1368	THR	O-C-N	5.75	128.29	122.09
5	L	1620	PHE	CA-CB-CG	-5.75	108.05	113.80
8	m	7	THR	CA-CB-CG2	5.75	120.27	110.50
3	K	31	ILE	CA-C-N	5.75	125.76	119.90
3	K	31	ILE	C-N-CA	5.75	125.76	119.90
5	L	209	GLU	N-CA-CB	5.75	118.34	110.01
5	L	339	THR	N-CA-C	-5.75	100.34	109.07
2	S	33	GLN	CA-C-N	5.75	127.91	120.44
2	S	33	GLN	C-N-CA	5.75	127.91	120.44
2	T	91	TRP	CB-CG-CD1	-5.75	118.28	126.90
8	i	225	PHE	CA-CB-CG	-5.75	108.06	113.80
8	l	86	TYR	N-CA-C	-5.75	101.42	109.69
2	B	420	LEU	N-CA-C	-5.74	106.81	113.88
1	E	866	PHE	CA-CB-CG	5.74	119.54	113.80
4	J	914	GLU	CB-CG-CD	-5.74	102.83	112.60
7	X	605	ASN	CA-CB-CG	5.74	118.34	112.60
8	j	286	ARG	N-CA-C	-5.74	104.84	112.94
8	k	177	GLU	CB-CG-CD	5.74	122.36	112.60
8	k	362	ARG	NE-CZ-NH2	5.74	124.37	119.20
1	C	559	ARG	NH1-CZ-NH2	-5.74	111.83	119.30
3	I	579	PHE	N-CA-CB	5.74	119.18	110.28
2	D	277	ASP	CA-CB-CG	5.74	118.34	112.60
1	G	370	GLN	CA-C-O	-5.74	114.79	120.70
1	M	652	ARG	N-CA-C	5.74	118.48	111.82
8	c	217	ARG	NE-CZ-NH1	5.74	127.24	121.50
8	n	121	ILE	CA-C-O	5.74	123.94	119.46
2	D	451	PRO	CA-C-N	5.74	129.20	120.13
2	D	451	PRO	C-N-CA	5.74	129.20	120.13
1	G	867	TYR	CA-CB-CG	5.74	124.23	113.90
1	A	452	THR	N-CA-CB	5.74	118.29	109.91
2	F	534	ASP	N-CA-CB	5.74	119.13	110.30
8	b	166	VAL	N-CA-C	-5.74	100.22	108.48
8	d	335	LYS	CA-C-O	5.74	126.57	119.97
1	A	249	GLN	N-CA-CB	5.74	118.47	110.04
1	E	857	ILE	CA-CB-CG1	5.74	120.15	110.40
1	G	621	VAL	N-CA-C	-5.74	100.78	108.35
4	J	275	SER	CA-C-O	5.74	125.10	119.08

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	397	LYS	O-C-N	-5.74	115.61	122.15
8	j	59	HIS	CB-CG-CD2	-5.74	123.75	131.20
8	m	210	LEU	N-CA-CB	5.74	118.39	110.07
9	s	58	ARG	CA-C-N	5.74	127.90	120.44
9	s	58	ARG	C-N-CA	5.74	127.90	120.44
1	C	722	LEU	CA-C-O	5.73	126.50	120.42
8	h	201	CYS	O-C-N	-5.73	116.62	123.27
1	M	234	VAL	N-CA-CB	5.73	118.68	111.46
2	N	839	ILE	CB-CA-C	-5.73	106.49	114.00
8	a	124	ARG	NE-CZ-NH1	-5.73	115.77	121.50
2	H	470	ILE	CA-C-N	5.73	125.68	119.78
2	H	470	ILE	C-N-CA	5.73	125.68	119.78
4	J	601	HIS	CB-CG-ND1	5.73	131.29	122.70
3	K	30	ASP	CA-C-N	5.73	132.73	122.13
3	K	30	ASP	C-N-CA	5.73	132.73	122.13
3	K	584	GLU	CB-CG-CD	-5.73	102.86	112.60
2	O	65	GLN	CA-C-N	5.73	131.10	122.68
2	O	65	GLN	C-N-CA	5.73	131.10	122.68
7	W	618	CYS	O-C-N	5.73	128.19	122.12
7	X	627	VAL	N-CA-C	5.73	115.92	110.42
8	e	138	CYS	N-CA-C	-5.73	101.02	109.62
8	n	408	PHE	N-CA-CB	-5.73	102.10	110.47
2	N	757	ILE	CA-C-O	-5.73	114.06	120.25
1	C	641	PHE	CA-C-O	5.73	126.56	119.97
3	I	339	HIS	CE1-NE2-CD2	-5.73	103.27	109.00
3	K	335	THR	CA-C-N	5.73	130.14	120.29
3	K	335	THR	C-N-CA	5.73	130.14	120.29
5	L	13	GLU	CA-C-O	-5.73	114.35	120.42
2	N	534	ASP	CA-CB-CG	5.73	118.33	112.60
8	e	216	ASP	CA-CB-CG	-5.73	106.87	112.60
8	g	90	ASN	N-CA-C	-5.73	106.09	114.39
1	G	400	ASN	CA-CB-CG	-5.73	106.87	112.60
8	a	280	GLN	N-CA-C	-5.73	105.56	112.54
1	A	305	LEU	CA-C-N	5.72	128.55	120.42
1	A	305	LEU	C-N-CA	5.72	128.55	120.42
3	K	513	LYS	N-CA-C	5.72	118.29	111.71
6	P	47	MET	CA-C-N	5.72	128.50	121.06
6	P	47	MET	C-N-CA	5.72	128.50	121.06
8	g	61	ILE	CB-CA-C	-5.72	104.58	110.13
4	J	419	VAL	CA-C-O	-5.72	113.99	118.85
1	M	636	ARG	CA-CB-CG	-5.72	102.66	114.10
8	k	251	ASN	N-CA-C	-5.72	105.80	112.89

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	400	HIS	CG-CD2-NE2	5.72	112.92	107.20
8	j	139	HIS	CA-CB-CG	5.72	119.52	113.80
2	D	443	HIS	CA-CB-CG	-5.72	108.08	113.80
2	D	764	ASP	CA-C-O	-5.72	114.65	120.71
1	E	452	THR	CA-CB-CG2	5.72	120.22	110.50
5	L	1675	ASN	OD1-CG-ND2	-5.72	116.88	122.60
8	c	310	ASP	CA-CB-CG	5.72	118.32	112.60
8	i	48	LYS	N-CA-C	-5.72	106.43	113.41
8	j	210	LEU	O-C-N	5.72	128.27	122.09
8	k	204	VAL	CA-C-N	5.72	131.84	121.89
8	k	204	VAL	C-N-CA	5.72	131.84	121.89
3	K	185	LYS	CA-C-O	5.72	126.61	120.55
2	N	792	TYR	N-CA-C	5.72	117.51	111.28
2	S	114	PHE	CA-C-N	5.72	128.73	120.38
2	S	114	PHE	C-N-CA	5.72	128.73	120.38
8	a	230	GLN	N-CA-C	-5.72	104.50	112.45
8	m	191	THR	O-C-N	5.72	129.99	122.33
1	E	534	THR	N-CA-C	-5.72	103.91	112.54
2	F	272	ASN	OD1-CG-ND2	-5.72	116.88	122.60
1	G	275	PHE	CA-C-O	-5.72	114.36	120.42
8	f	200	ASP	N-CA-C	-5.72	98.62	110.80
8	h	68	ASP	CA-C-N	5.72	127.87	120.44
8	h	68	ASP	C-N-CA	5.72	127.87	120.44
9	q	62	ASP	CA-C-N	5.72	128.22	120.44
9	q	62	ASP	C-N-CA	5.72	128.22	120.44
1	A	847	THR	CA-CB-OG1	5.71	118.17	109.60
6	P	243	PRO	CA-C-N	5.71	132.45	121.54
6	P	243	PRO	C-N-CA	5.71	132.45	121.54
8	i	171	VAL	N-CA-C	-5.71	98.74	106.85
8	m	2	PRO	N-CA-CB	5.71	109.29	103.00
7	X	634	HIS	N-CA-CB	5.71	118.29	110.01
8	h	164	LYS	O-C-N	5.71	129.87	123.19
1	A	239	GLY	CA-C-N	5.71	127.93	120.28
1	A	239	GLY	C-N-CA	5.71	127.93	120.28
1	A	368	ASP	CA-C-O	-5.71	114.61	120.89
2	D	527	ASN	OD1-CG-ND2	5.71	128.31	122.60
2	F	452	VAL	CA-C-N	5.71	132.25	121.97
2	F	452	VAL	C-N-CA	5.71	132.25	121.97
2	F	884	HIS	CG-CD2-NE2	5.71	112.91	107.20
1	G	288	ASN	CA-CB-CG	5.71	118.31	112.60
5	L	384	VAL	N-CA-C	-5.71	105.83	111.77
5	L	586	VAL	CB-CA-C	5.71	120.66	111.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	558	MET	N-CA-CB	5.71	118.61	110.16
8	e	80	SER	CA-C-O	-5.71	114.99	120.64
8	l	314	ASN	CA-CB-CG	-5.71	106.89	112.60
8	m	57	ASP	CA-CB-CG	5.71	118.31	112.60
2	B	475	THR	N-CA-CB	5.71	119.64	110.85
4	J	476	ILE	CA-C-O	-5.71	115.85	120.70
8	b	110	GLN	CA-C-O	5.71	126.42	119.11
8	c	204	VAL	N-CA-C	-5.71	100.25	108.53
2	B	441	THR	N-CA-C	-5.71	108.11	114.62
2	F	411	ARG	O-C-N	5.71	129.29	122.27
4	J	713	GLU	N-CA-CB	5.71	119.13	110.28
3	K	490	GLU	CB-CA-C	-5.71	101.14	110.85
8	c	11	GLY	CA-C-N	5.71	128.99	120.31
8	c	11	GLY	C-N-CA	5.71	128.99	120.31
3	K	649	ASP	O-C-N	-5.71	113.89	122.28
1	M	279	ASN	OD1-CG-ND2	5.71	128.31	122.60
1	M	386	TYR	N-CA-C	-5.71	105.58	112.54
8	a	19	PHE	N-CA-CB	5.71	118.61	110.16
8	f	115	HIS	CA-C-N	5.71	128.39	120.29
8	f	115	HIS	C-N-CA	5.71	128.39	120.29
9	t	62	ASP	CA-CB-CG	5.71	118.31	112.60
1	E	384	ALA	CA-C-O	-5.71	112.34	120.16
2	S	80	LYS	N-CA-CB	5.71	118.62	110.06
7	X	668	ARG	N-CA-CB	5.71	119.86	110.39
8	a	175	GLN	N-CA-C	5.71	118.27	111.71
2	D	873	ARG	O-C-N	5.70	130.17	122.59
1	E	747	PHE	CB-CG-CD2	-5.70	111.00	120.70
2	F	429	LEU	O-C-N	5.70	128.73	122.11
3	I	203	PHE	O-C-N	-5.70	116.13	122.86
3	I	484	VAL	O-C-N	-5.70	116.96	122.09
5	L	1566	GLN	N-CA-C	-5.70	106.16	113.23
8	l	263	THR	CA-C-O	-5.70	114.41	120.28
2	N	508	VAL	N-CA-C	-5.70	103.96	111.09
1	E	575	GLU	CA-C-O	5.70	128.20	121.36
4	J	818	GLN	N-CA-CB	5.70	119.12	110.28
3	K	113	ALA	N-CA-C	-5.70	105.15	111.36
2	B	859	GLN	CA-C-N	5.70	128.97	120.31
2	B	859	GLN	C-N-CA	5.70	128.97	120.31
1	G	650	VAL	CA-C-N	5.70	128.38	120.29
1	G	650	VAL	C-N-CA	5.70	128.38	120.29
8	b	70	GLU	CA-C-N	5.70	126.78	120.45
8	b	70	GLU	C-N-CA	5.70	126.78	120.45

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	b	219	HIS	CA-CB-CG	-5.70	108.10	113.80
8	b	289	THR	CA-C-O	5.70	128.20	121.36
8	d	206	ASP	N-CA-CB	5.70	118.51	110.36
1	A	330	THR	CA-CB-OG1	5.70	118.14	109.60
8	j	314	ASN	O-C-N	-5.70	114.81	122.22
8	f	414	PHE	N-CA-C	-5.70	103.94	112.54
1	C	683	GLN	CA-C-O	-5.69	114.38	120.42
2	H	444	GLU	CA-CB-CG	5.69	125.49	114.10
3	I	602	PRO	O-C-N	5.69	130.33	122.64
8	b	381	HIS	CG-CD2-NE2	5.69	112.89	107.20
8	e	391	THR	CA-C-O	-5.69	113.92	120.24
8	j	66	LEU	N-CA-CB	5.69	119.49	110.84
1	C	279	ASN	CA-CB-CG	5.69	118.29	112.60
2	D	642	HIS	CB-CG-ND1	5.69	131.24	122.70
5	L	1548	TYR	CB-CG-CD1	-5.69	112.26	120.80
2	N	812	ARG	CA-C-N	5.69	130.36	120.68
2	N	812	ARG	C-N-CA	5.69	130.36	120.68
2	Q	75	SER	CA-C-N	5.69	128.37	120.29
2	Q	75	SER	C-N-CA	5.69	128.37	120.29
7	X	642	MET	CA-C-N	5.69	128.38	120.29
7	X	642	MET	C-N-CA	5.69	128.38	120.29
8	b	417	ASN	N-CA-C	-5.69	104.08	111.71
8	k	280	GLN	OE1-CD-NE2	5.69	128.29	122.60
8	n	102	ASN	CA-C-N	5.69	132.41	121.54
8	n	102	ASN	C-N-CA	5.69	132.41	121.54
1	E	652	ARG	CA-C-O	-5.69	115.02	121.00
5	L	1392	MET	N-CA-C	-5.69	105.22	111.82
8	b	244	ARG	NE-CZ-NH2	-5.69	114.08	119.20
8	j	311	ARG	N-CA-C	-5.69	105.54	112.88
8	m	247	GLY	N-CA-C	-5.69	99.69	113.18
2	R	71	GLY	CA-C-N	5.69	127.84	120.44
2	R	71	GLY	C-N-CA	5.69	127.84	120.44
1	E	692	ILE	N-CA-C	5.69	118.20	111.09
1	G	311	HIS	CG-CD2-NE2	5.69	112.89	107.20
8	b	421	LEU	N-CA-C	-5.69	105.45	112.90
8	g	35	GLY	CA-C-O	-5.69	116.70	122.56
8	j	290	VAL	O-C-N	-5.69	116.51	122.20
1	A	438	ILE	N-CA-CB	5.69	119.17	111.21
1	G	494	ALA	O-C-N	5.69	129.26	122.27
3	K	149	HIS	CB-CG-CD2	-5.69	123.81	131.20
5	L	1496	THR	N-CA-C	-5.69	100.67	109.14
8	m	24	GLN	N-CA-C	5.69	118.42	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	617	PHE	N-CA-C	-5.68	102.11	110.52
1	C	300	LYS	O-C-N	5.68	128.63	122.15
2	D	386	HIS	CB-CA-C	5.68	119.88	110.90
2	F	479	SER	CA-C-N	5.68	130.21	120.72
2	F	479	SER	C-N-CA	5.68	130.21	120.72
3	I	287	GLU	N-CA-C	-5.68	105.07	112.23
3	K	526	ASN	CB-CG-ND2	-5.68	107.87	116.40
3	K	562	HIS	CA-C-N	5.68	127.83	120.44
3	K	562	HIS	C-N-CA	5.68	127.83	120.44
8	c	87	ASN	CA-C-N	5.68	126.94	119.84
8	c	87	ASN	C-N-CA	5.68	126.94	119.84
8	k	133	GLU	N-CA-C	-5.68	104.72	111.03
1	E	255	VAL	CA-C-N	5.68	127.90	120.28
1	E	255	VAL	C-N-CA	5.68	127.90	120.28
1	G	213	GLU	CA-CB-CG	-5.68	102.74	114.10
2	R	52	PHE	CA-C-N	5.68	127.89	120.28
2	R	52	PHE	C-N-CA	5.68	127.89	120.28
8	d	228	ILE	CA-CB-CG1	5.68	120.06	110.40
8	f	48	LYS	CA-C-O	-5.68	114.85	120.82
8	h	180	HIS	N-CA-C	-5.68	106.02	113.12
8	m	436	HIS	CE1-NE2-CD2	-5.68	103.32	109.00
1	C	721	VAL	CA-C-N	5.68	128.36	120.29
1	C	721	VAL	C-N-CA	5.68	128.36	120.29
4	J	421	PRO	N-CA-CB	5.68	108.29	103.35
1	C	465	ASP	CA-CB-CG	5.68	118.28	112.60
2	D	563	ARG	NE-CZ-NH2	-5.68	114.09	119.20
4	J	378	ILE	CA-C-N	5.68	128.94	120.31
4	J	378	ILE	C-N-CA	5.68	128.94	120.31
8	f	288	THR	CA-C-N	5.68	133.49	122.07
8	f	288	THR	C-N-CA	5.68	133.49	122.07
8	m	29	HIS	N-CA-C	-5.68	106.35	113.28
8	n	172	PHE	CA-C-N	5.68	125.88	120.31
8	n	172	PHE	C-N-CA	5.68	125.88	120.31
1	G	475	THR	CA-C-N	5.68	128.91	120.90
1	G	475	THR	C-N-CA	5.68	128.91	120.90
3	I	600	LEU	CA-C-N	5.68	130.78	121.87
3	I	600	LEU	C-N-CA	5.68	130.78	121.87
2	R	78	HIS	CA-C-N	5.68	128.35	120.29
2	R	78	HIS	C-N-CA	5.68	128.35	120.29
2	D	342	HIS	CA-C-N	5.68	129.68	120.60
2	D	342	HIS	C-N-CA	5.68	129.68	120.60
2	F	339	SER	CA-CB-OG	5.68	122.45	111.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	160	HIS	CA-CB-CG	-5.68	108.12	113.80
8	b	283	ALA	N-CA-C	-5.68	105.03	112.41
8	l	381	HIS	CA-C-O	-5.68	114.70	121.11
4	J	813	GLN	CA-C-O	5.67	126.36	119.38
8	l	147	SER	O-C-N	5.67	129.93	122.33
1	E	724	HIS	CE1-NE2-CD2	-5.67	103.33	109.00
1	G	218	GLU	CA-C-N	5.67	128.34	120.29
1	G	218	GLU	C-N-CA	5.67	128.34	120.29
2	H	528	ALA	CA-C-N	5.67	128.35	120.29
2	H	528	ALA	C-N-CA	5.67	128.35	120.29
8	j	412	ASP	CA-CB-CG	5.67	118.27	112.60
1	C	701	MET	N-CA-C	5.67	119.38	112.23
1	E	427	TRP	CZ3-CH2-CZ2	-5.67	114.13	121.50
3	I	98	GLN	CA-C-O	-5.67	112.39	120.16
2	Q	46	THR	N-CA-C	-5.67	100.65	109.72
8	h	266	LEU	N-CA-C	-5.67	98.72	110.80
1	A	830	ASN	N-CA-C	5.67	118.40	111.82
2	D	591	LEU	CA-C-O	5.67	125.93	119.18
4	J	294	ASN	CA-CB-CG	-5.67	106.93	112.60
3	K	43	ASN	CA-C-N	5.67	128.93	120.31
3	K	43	ASN	C-N-CA	5.67	128.93	120.31
7	X	601	ASN	OD1-CG-ND2	-5.67	116.93	122.60
8	h	180	HIS	O-C-N	5.67	130.47	122.20
8	l	160	ARG	CA-C-O	5.67	125.03	118.97
2	F	753	PHE	CA-CB-CG	5.67	119.47	113.80
2	H	499	GLN	CA-CB-CG	5.67	125.44	114.10
7	V	606	MET	CA-C-O	-5.67	114.87	120.82
8	b	47	ARG	CA-C-N	5.67	131.38	122.49
8	b	47	ARG	C-N-CA	5.67	131.38	122.49
8	c	182	VAL	O-C-N	-5.67	117.00	122.16
8	d	380	ASN	CB-CG-ND2	5.67	124.90	116.40
8	h	222	ASN	O-C-N	5.67	127.84	121.32
8	i	77	ILE	CA-C-N	5.67	128.34	120.29
8	i	77	ILE	C-N-CA	5.67	128.34	120.29
8	i	347	ASN	N-CA-C	-5.67	102.07	110.46
9	r	33	THR	CA-C-O	-5.67	114.41	120.42
2	B	516	LYS	N-CA-C	5.67	117.45	111.28
2	D	398	ALA	N-CA-C	-5.67	103.88	112.04
4	J	1011	SER	O-C-N	-5.67	114.64	122.46
2	B	314	ARG	NE-CZ-NH1	-5.66	115.84	121.50
2	H	753	PHE	CA-CB-CG	5.66	119.46	113.80
5	L	1363	MET	CA-C-N	5.66	127.87	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	1363	MET	C-N-CA	5.66	127.87	120.28
7	U	603	ILE	CA-C-N	5.66	128.19	120.54
7	U	603	ILE	C-N-CA	5.66	128.19	120.54
8	e	178	MET	N-CA-CB	5.66	120.06	110.49
8	f	315	HIS	CA-CB-CG	-5.66	108.14	113.80
8	j	42	THR	O-C-N	-5.66	115.45	122.25
2	B	746	ILE	N-CA-CB	5.66	118.24	110.54
1	E	305	LEU	N-CA-CB	5.66	119.06	110.28
1	G	867	TYR	CB-CG-CD2	-5.66	112.31	120.80
3	I	130	HIS	CE1-NE2-CD2	-5.66	103.34	109.00
3	I	647	ARG	N-CA-C	5.66	117.53	111.36
8	i	318	ILE	N-CA-C	-5.66	107.36	112.12
1	C	852	HIS	CA-C-O	5.66	126.48	119.97
1	G	340	ILE	CA-C-O	5.66	126.85	120.85
4	J	242	TRP	CG-CD2-CE3	5.66	139.56	133.90
4	J	434	ASN	CA-CB-CG	5.66	118.26	112.60
3	K	556	ILE	N-CA-C	-5.66	105.01	110.72
5	L	1550	HIS	CA-CB-CG	5.66	119.46	113.80
8	c	57	ASP	CA-CB-CG	5.66	118.26	112.60
9	q	20	GLU	N-CA-CB	5.66	118.44	110.12
3	I	500	GLN	OE1-CD-NE2	5.66	128.26	122.60
4	J	933	HIS	CB-CG-CD2	-5.66	123.85	131.20
7	V	607	ILE	N-CA-C	-5.66	105.01	110.72
8	f	362	ARG	NE-CZ-NH2	5.66	124.29	119.20
8	h	7	THR	CB-CA-C	5.66	118.86	109.53
8	h	181	VAL	N-CA-C	-5.66	100.33	108.42
2	D	346	GLN	O-C-N	-5.66	115.69	122.65
3	I	259	LEU	N-CA-CB	5.66	118.28	109.97
5	L	375	LEU	CB-CA-C	-5.66	99.88	109.38
2	N	839	ILE	N-CA-CB	5.66	114.86	110.45
8	a	171	VAL	N-CA-C	-5.66	99.49	107.75
8	b	371	HIS	N-CA-C	-5.66	104.25	113.19
8	h	3	ARG	NE-CZ-NH1	5.66	127.16	121.50
8	h	97	GLY	O-C-N	5.66	128.25	122.88
9	q	47	PRO	N-CA-C	-5.66	106.16	113.57
2	F	627	VAL	CB-CA-C	5.65	117.34	111.23
8	b	52	PHE	CA-CB-CG	-5.65	108.15	113.80
8	i	117	ASP	CA-CB-CG	5.65	118.25	112.60
1	A	628	ILE	CA-C-N	5.65	131.16	122.68
1	A	628	ILE	C-N-CA	5.65	131.16	122.68
1	C	571	ASP	CA-CB-CG	-5.65	106.95	112.60
1	C	721	VAL	CA-C-O	-5.65	115.07	120.95

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	338	GLU	N-CA-C	-5.65	106.55	113.50
3	I	467	THR	CA-C-N	5.65	125.36	119.82
3	I	467	THR	C-N-CA	5.65	125.36	119.82
2	R	57	LYS	N-CA-C	5.65	117.44	111.28
8	d	401	ARG	N-CA-C	-5.65	106.43	113.38
8	k	203	VAL	N-CA-C	-5.65	98.29	107.28
2	F	566	LEU	N-CA-C	-5.65	105.73	113.30
5	L	7	LEU	O-C-N	-5.65	116.21	122.09
2	O	69	ALA	CB-CA-C	-5.65	101.41	110.79
8	a	139	HIS	CE1-NE2-CD2	-5.65	103.35	109.00
8	g	22	TRP	CA-CB-CG	5.65	124.33	113.60
8	l	293	VAL	O-C-N	-5.65	116.55	122.20
9	q	48	GLU	CA-C-O	5.65	126.52	120.70
1	C	318	LEU	N-CA-CB	5.65	118.27	109.97
1	C	411	HIS	ND1-CE1-NE2	5.65	114.05	108.40
2	D	507	ALA	N-CA-C	5.65	117.52	111.36
2	F	867	SER	O-C-N	5.65	130.10	122.59
1	G	540	LYS	CA-C-N	5.65	125.65	119.89
1	G	540	LYS	C-N-CA	5.65	125.65	119.89
1	G	753	VAL	CA-C-O	5.65	126.41	119.58
3	I	408	ASP	CA-CB-CG	5.65	118.25	112.60
5	L	424	HIS	CG-CD2-NE2	5.65	112.85	107.20
2	Q	95	TYR	CA-C-N	5.65	127.78	120.44
2	Q	95	TYR	C-N-CA	5.65	127.78	120.44
7	U	614	PHE	CA-C-O	-5.65	114.43	120.42
8	e	333	VAL	CA-CB-CG2	5.65	120.00	110.40
2	H	266	LYS	N-CA-C	-5.65	106.94	113.88
2	H	851	HIS	CB-CA-C	-5.65	99.83	110.67
8	i	142	ALA	N-CA-CB	5.65	118.27	109.97
8	n	287	LYS	CA-C-N	5.65	130.37	121.56
8	n	287	LYS	C-N-CA	5.65	130.37	121.56
1	C	724	HIS	ND1-CE1-NE2	5.64	114.05	108.40
1	M	374	LEU	N-CA-C	-5.64	104.51	111.40
7	U	642	MET	CA-C-N	5.64	127.78	120.44
7	U	642	MET	C-N-CA	5.64	127.78	120.44
8	d	343	ARG	N-CA-CB	5.64	118.67	110.26
8	k	212	ARG	CD-NE-CZ	-5.64	116.50	124.40
8	c	285	VAL	CA-C-O	5.64	126.02	119.36
8	h	383	ASN	CA-CB-CG	5.64	118.24	112.60
8	k	184	GLN	CG-CD-NE2	-5.64	107.94	116.40
1	C	390	LEU	O-C-N	-5.64	114.77	122.33
3	I	387	VAL	CA-C-O	-5.64	112.75	119.58

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	513	GLU	CA-C-O	-5.64	114.90	120.82
2	Q	27	ASP	N-CA-C	-5.64	105.74	113.30
8	e	13	CYS	O-C-N	5.64	130.37	122.36
2	Q	99	SER	CA-C-O	5.64	126.53	120.55
8	e	75	HIS	ND1-CE1-NE2	5.64	114.04	108.40
8	f	316	CYS	CA-C-N	5.64	129.79	120.94
8	f	316	CYS	C-N-CA	5.64	129.79	120.94
8	m	73	VAL	CA-CB-CG1	-5.64	100.81	110.40
2	B	793	ARG	NE-CZ-NH2	-5.64	114.13	119.20
1	E	400	ASN	O-C-N	5.64	130.01	123.41
3	I	495	TRP	CE2-CD2-CE3	5.64	124.44	118.80
3	K	408	ASP	CA-CB-CG	5.64	118.24	112.60
8	f	269	LEU	CB-CA-C	-5.64	100.45	109.75
1	C	704	THR	CA-CB-CG2	5.64	120.08	110.50
2	H	390	ARG	NE-CZ-NH1	5.64	127.14	121.50
3	K	566	ASN	CA-C-N	-5.64	112.29	120.29
3	K	566	ASN	C-N-CA	-5.64	112.29	120.29
5	L	1422	LEU	N-CA-CB	5.64	120.48	111.91
2	N	463	TYR	O-C-N	5.64	129.37	123.06
2	Q	55	THR	CA-C-N	5.64	128.29	120.29
2	Q	55	THR	C-N-CA	5.64	128.29	120.29
7	V	642	MET	CA-C-N	5.64	127.83	120.28
7	V	642	MET	C-N-CA	5.64	127.83	120.28
8	c	161	TYR	O-C-N	-5.64	116.38	121.17
8	e	220	ILE	N-CA-C	5.64	117.33	109.55
8	k	285	VAL	CA-CB-CG1	-5.64	100.82	110.40
2	B	862	VAL	CA-C-N	5.63	127.76	120.44
2	B	862	VAL	C-N-CA	5.63	127.76	120.44
4	J	290	VAL	N-CA-C	-5.63	97.77	107.24
3	K	264	LEU	N-CA-C	-5.63	102.55	109.65
5	L	1562	TYR	CA-C-N	5.63	129.54	120.30
5	L	1562	TYR	C-N-CA	5.63	129.54	120.30
1	M	467	THR	CA-CB-OG1	5.63	118.05	109.60
2	O	89	ASN	CA-C-N	5.63	127.83	120.28
2	O	89	ASN	C-N-CA	5.63	127.83	120.28
6	P	72	GLU	CA-C-N	5.63	130.41	122.46
6	P	72	GLU	C-N-CA	5.63	130.41	122.46
8	e	169	TYR	CB-CA-C	-5.63	102.27	111.68
1	G	549	ARG	NH1-CZ-NH2	-5.63	111.98	119.30
5	L	402	ALA	CB-CA-C	-5.63	101.27	110.85
8	a	80	SER	N-CA-C	-5.63	103.06	108.07
8	m	70	GLU	CB-CA-C	5.63	116.12	109.47

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	704	HIS	CE1-NE2-CD2	-5.63	103.37	109.00
1	C	296	ARG	CA-C-O	-5.63	113.74	120.10
1	G	344	LEU	CA-C-N	5.63	128.87	120.31
1	G	344	LEU	C-N-CA	5.63	128.87	120.31
4	J	976	VAL	CA-C-N	5.63	128.29	120.29
4	J	976	VAL	C-N-CA	5.63	128.29	120.29
8	b	334	HIS	CA-C-N	5.63	130.25	120.68
8	b	334	HIS	C-N-CA	5.63	130.25	120.68
8	d	52	PHE	CA-CB-CG	-5.63	108.17	113.80
8	k	372	ARG	CB-CA-C	-5.63	100.37	109.72
3	K	334	SER	CA-C-N	5.63	128.87	120.31
3	K	334	SER	C-N-CA	5.63	128.87	120.31
8	l	344	LYS	N-CA-CB	5.63	120.01	110.49
1	G	315	GLN	OE1-CD-NE2	5.63	128.23	122.60
2	N	373	PRO	N-CA-C	5.63	120.90	113.86
7	X	666	ARG	NE-CZ-NH2	5.63	124.27	119.20
8	b	265	ARG	CA-C-N	5.63	132.29	121.54
8	b	265	ARG	C-N-CA	5.63	132.29	121.54
8	g	245	TYR	CA-C-O	-5.63	115.53	120.60
1	A	244	SER	O-C-N	-5.63	116.37	123.01
2	D	257	PHE	CA-CB-CG	5.63	119.43	113.80
2	H	457	ARG	CD-NE-CZ	-5.63	116.52	124.40
8	c	15	ASN	OD1-CG-ND2	5.63	128.23	122.60
8	e	186	TYR	CA-CB-CG	-5.63	103.77	113.90
8	h	299	GLN	CB-CG-CD	-5.63	103.03	112.60
1	E	435	GLN	CG-CD-OE1	-5.62	109.55	120.80
1	E	634	LEU	N-CA-C	-5.62	105.23	111.36
1	G	526	PHE	CD1-CG-CD2	-5.62	110.16	118.60
3	I	26	GLN	N-CA-C	-5.62	100.23	109.40
8	l	306	SER	CA-C-O	5.62	127.31	120.62
1	C	529	HIS	ND1-CE1-NE2	5.62	114.02	108.40
2	D	510	LYS	CA-C-N	5.62	128.28	120.29
2	D	510	LYS	C-N-CA	5.62	128.28	120.29
1	E	262	ILE	N-CA-C	-5.62	106.30	113.22
1	E	859	TYR	N-CA-CB	5.62	119.00	110.28
4	J	257	ASP	CA-C-O	-5.62	114.19	120.54
2	N	723	PHE	CA-C-N	5.62	130.20	120.58
2	N	723	PHE	C-N-CA	5.62	130.20	120.58
8	b	5	ILE	CA-CB-CG1	5.62	119.96	110.40
8	c	399	ARG	CA-CB-CG	5.62	125.34	114.10
8	h	210	LEU	N-CA-C	-5.62	104.54	111.40
9	o	16	ASP	CA-CB-CG	5.62	118.22	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	376	ARG	NE-CZ-NH2	5.62	124.26	119.20
1	G	826	ASN	CA-CB-CG	-5.62	106.98	112.60
2	H	741	GLN	N-CA-CB	5.62	118.91	110.65
5	L	496	PRO	CA-C-O	-5.62	114.93	121.34
5	L	575	LEU	N-CA-C	-5.62	98.46	108.13
8	b	104	TRP	CA-CB-CG	5.62	124.28	113.60
8	d	190	LEU	CB-CA-C	-5.62	99.88	110.67
8	k	273	TYR	CA-C-N	5.62	127.79	120.26
8	k	273	TYR	C-N-CA	5.62	127.79	120.26
8	n	381	HIS	CA-C-O	-5.62	114.76	121.11
8	i	240	THR	CA-CB-OG1	5.62	118.03	109.60
8	j	139	HIS	CE1-NE2-CD2	-5.62	103.38	109.00
1	A	546	ILE	CA-C-N	5.62	125.24	119.56
1	A	546	ILE	C-N-CA	5.62	125.24	119.56
2	B	316	PHE	N-CA-C	5.62	119.14	111.39
1	E	396	ARG	NE-CZ-NH2	5.62	124.26	119.20
2	F	651	PHE	CB-CG-CD2	-5.62	111.15	120.70
6	P	37	ARG	O-C-N	5.62	128.01	121.10
2	B	316	PHE	CA-CB-CG	-5.62	108.18	113.80
1	E	369	SER	N-CA-CB	5.62	118.22	110.07
3	K	12	TYR	CA-C-N	5.62	125.38	119.76
3	K	12	TYR	C-N-CA	5.62	125.38	119.76
2	N	668	ARG	CA-C-O	5.62	126.29	119.38
8	e	326	GLY	CA-C-N	5.62	128.74	120.82
8	e	326	GLY	C-N-CA	5.62	128.74	120.82
8	g	100	ALA	CA-C-O	-5.62	114.92	120.82
8	i	265	ARG	CA-C-O	5.62	128.35	121.84
8	m	149	LEU	N-CA-C	-5.62	105.15	112.23
1	E	659	ILE	N-CA-CB	5.61	118.17	110.54
1	G	481	GLN	CB-CA-C	-5.61	99.25	110.42
4	J	980	SER	CA-C-N	5.61	128.26	120.29
4	J	980	SER	C-N-CA	5.61	128.26	120.29
5	L	383	GLY	O-C-N	-5.61	115.40	122.70
2	N	342	HIS	CB-CG-CD2	-5.61	123.90	131.20
2	N	784	PHE	CA-CB-CG	5.61	119.41	113.80
8	f	213	ILE	CB-CA-C	-5.61	103.73	111.65
8	l	14	GLY	CA-C-O	-5.61	114.12	120.30
8	m	71	PRO	CA-C-O	-5.61	112.13	118.98
1	E	468	CYS	O-C-N	5.61	127.72	121.43
3	K	461	PRO	CA-C-N	5.61	128.57	120.38
3	K	461	PRO	C-N-CA	5.61	128.57	120.38
3	K	552	ASP	CA-C-N	5.61	132.08	121.81

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	552	ASP	C-N-CA	5.61	132.08	121.81
1	E	311	HIS	CG-CD2-NE2	5.61	112.81	107.20
1	E	645	PHE	N-CA-C	-5.61	105.31	111.82
4	J	1004	HIS	CB-CG-CD2	-5.61	123.91	131.20
7	V	645	GLU	O-C-N	5.61	128.07	122.12
8	a	300	PRO	CB-CA-C	5.61	116.51	111.40
8	b	349	ILE	CA-C-N	5.61	126.47	120.47
8	b	349	ILE	C-N-CA	5.61	126.47	120.47
8	h	271	THR	N-CA-C	-5.61	101.03	109.95
8	j	274	THR	O-C-N	-5.61	114.87	121.32
8	m	130	ASP	CA-CB-CG	5.61	118.21	112.60
1	E	509	VAL	O-C-N	-5.61	116.43	121.87
1	M	481	GLN	N-CA-CB	5.61	119.97	110.49
2	N	734	TRP	N-CA-C	5.61	118.33	111.82
1	A	839	LEU	N-CA-C	-5.61	105.32	111.82
2	F	691	LYS	O-C-N	5.61	129.60	123.04
1	M	470	ASP	CA-CB-CG	5.61	118.21	112.60
2	T	50	ASP	N-CA-C	-5.61	95.98	107.70
8	a	6	ILE	CA-CB-CG1	5.61	119.93	110.40
9	o	38	VAL	CB-CA-C	-5.61	104.79	111.97
1	G	462	CYS	N-CA-C	-5.61	106.03	112.92
1	G	629	ILE	N-CA-CB	5.61	119.02	112.35
8	g	59	HIS	N-CA-C	-5.61	99.17	108.75
9	r	21	ILE	CA-C-O	-5.61	115.12	120.95
8	i	399	ARG	NE-CZ-NH1	-5.60	115.90	121.50
9	r	23	ARG	NE-CZ-NH1	5.60	127.10	121.50
1	E	695	TYR	CA-C-N	5.60	127.79	120.28
1	E	695	TYR	C-N-CA	5.60	127.79	120.28
1	G	438	ILE	CA-C-O	-5.60	112.44	119.95
1	G	841	LYS	CA-CB-CG	5.60	125.31	114.10
3	K	272	VAL	CA-C-N	5.60	128.25	120.29
3	K	272	VAL	C-N-CA	5.60	128.25	120.29
1	M	256	LYS	CA-C-O	-5.60	114.48	120.42
8	h	47	ARG	NE-CZ-NH2	5.60	124.24	119.20
8	j	436	HIS	CB-CG-CD2	-5.60	123.92	131.20
8	n	85	LEU	CA-C-N	5.60	128.82	120.87
8	n	85	LEU	C-N-CA	5.60	128.82	120.87
8	d	140	SER	CA-C-N	5.60	128.13	120.46
8	d	140	SER	C-N-CA	5.60	128.13	120.46
8	j	217	ARG	N-CA-C	-5.60	107.69	114.75
2	B	757	ILE	CA-CB-CG1	5.60	119.92	110.40
1	C	234	VAL	CA-CB-CG2	-5.60	100.88	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	633	ALA	CA-C-O	5.60	126.25	119.31
4	J	256	ASP	N-CA-CB	5.60	118.59	109.69
3	K	590	HIS	ND1-CE1-NE2	5.60	114.00	108.40
5	L	1534	ASN	CA-CB-CG	5.60	118.20	112.60
5	L	1582	VAL	CA-C-N	5.60	128.79	120.90
5	L	1582	VAL	C-N-CA	5.60	128.79	120.90
5	L	1676	ARG	NH1-CZ-NH2	5.60	126.58	119.30
1	M	279	ASN	CA-C-N	5.60	128.82	120.31
1	M	279	ASN	C-N-CA	5.60	128.82	120.31
1	M	513	ARG	NH1-CZ-NH2	-5.60	112.02	119.30
2	F	826	ASP	N-CA-C	5.60	118.31	111.82
4	J	443	TYR	CA-C-N	5.60	127.72	120.44
4	J	443	TYR	C-N-CA	5.60	127.72	120.44
5	L	594	GLU	O-C-N	-5.60	115.71	122.48
2	N	768	ARG	NE-CZ-NH2	5.60	124.24	119.20
2	S	90	ARG	NE-CZ-NH1	5.60	127.10	121.50
8	l	363	LYS	CA-C-N	5.60	129.19	120.68
8	l	363	LYS	C-N-CA	5.60	129.19	120.68
8	n	36	ILE	N-CA-CB	5.60	117.45	111.46
2	D	279	LYS	O-C-N	-5.60	117.38	123.26
2	H	493	HIS	CE1-NE2-CD2	-5.60	103.40	109.00
5	L	1497	ASP	CA-C-N	5.60	128.24	120.29
5	L	1497	ASP	C-N-CA	5.60	128.24	120.29
8	g	303	VAL	N-CA-C	-5.60	101.83	109.55
8	h	156	ARG	NE-CZ-NH2	5.60	124.24	119.20
8	l	407	GLN	OE1-CD-NE2	-5.60	117.00	122.60
1	A	469	PRO	N-CA-C	5.59	120.01	111.11
2	B	875	LEU	CA-C-O	5.59	126.45	120.24
2	D	475	THR	CA-C-N	5.59	128.23	120.29
2	D	475	THR	C-N-CA	5.59	128.23	120.29
2	D	284	LYS	N-CA-C	-5.59	106.50	113.38
2	N	555	LEU	CA-C-N	5.59	128.81	120.31
2	N	555	LEU	C-N-CA	5.59	128.81	120.31
8	j	430	GLN	CB-CG-CD	-5.59	103.09	112.60
9	s	14	THR	CA-C-N	5.59	128.33	120.28
9	s	14	THR	C-N-CA	5.59	128.33	120.28
2	D	634	TRP	CE2-CD2-CE3	5.59	124.39	118.80
2	F	436	GLY	CA-C-O	5.59	125.22	119.01
1	G	854	MET	N-CA-C	5.59	118.31	111.82
4	J	393	ILE	CA-CB-CG1	5.59	119.91	110.40
8	c	103	ASN	CA-C-N	5.59	128.81	120.31
8	c	103	ASN	C-N-CA	5.59	128.81	120.31

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	c	371	HIS	CG-CD2-NE2	5.59	112.79	107.20
8	g	372	ARG	NE-CZ-NH2	5.59	124.23	119.20
1	E	348	GLU	O-C-N	5.59	129.01	121.97
1	M	549	ARG	CB-CA-C	-5.59	99.94	110.67
8	c	62	PRO	N-CA-CB	5.59	108.21	103.35
8	k	24	GLN	OE1-CD-NE2	5.59	128.19	122.60
2	N	297	GLY	CA-C-O	-5.59	114.74	120.66
8	f	173	PRO	O-C-N	5.59	130.54	123.05
9	p	38	VAL	N-CA-CB	5.59	117.09	110.55
9	q	54	ILE	CA-CB-CG1	5.59	119.90	110.40
2	B	686	ASN	CA-C-O	-5.59	112.51	119.38
2	D	806	GLU	CA-C-O	5.59	126.40	119.97
1	E	690	GLN	CA-C-O	-5.59	114.04	120.24
1	G	245	PHE	N-CA-CB	5.59	118.18	109.97
2	H	277	ASP	N-CA-C	-5.59	106.63	113.50
8	d	115	HIS	CG-CD2-NE2	5.59	112.79	107.20
8	h	302	ASN	CA-CB-CG	5.59	118.19	112.60
8	l	211	ASN	CA-CB-CG	-5.59	107.01	112.60
8	l	219	HIS	CE1-NE2-CD2	-5.59	103.41	109.00
2	O	75	SER	N-CA-C	5.58	117.37	111.28
8	j	219	HIS	N-CA-CB	5.58	119.93	110.49
1	A	248	GLU	N-CA-C	-5.58	100.71	109.25
1	A	397	GLY	N-CA-C	-5.58	107.31	115.63
3	K	149	HIS	CA-C-N	5.58	129.34	120.07
3	K	149	HIS	C-N-CA	5.58	129.34	120.07
2	N	667	TRP	O-C-N	-5.58	115.78	122.15
8	a	204	VAL	O-C-N	5.58	129.59	122.61
8	c	36	ILE	N-CA-CB	5.58	119.67	111.52
8	c	41	ALA	CA-C-O	-5.58	113.20	119.79
8	d	334	HIS	CG-CD2-NE2	5.58	112.78	107.20
8	g	268	PHE	CA-C-O	-5.58	114.29	120.60
1	A	405	GLU	CB-CG-CD	-5.58	103.11	112.60
1	A	691	ASN	CA-CB-CG	-5.58	107.02	112.60
3	I	15	SER	N-CA-C	-5.58	106.30	114.39
2	N	870	GLU	N-CA-CB	5.58	119.92	110.49
8	f	270	MET	CA-C-O	-5.58	114.69	121.05
8	g	295	ARG	NE-CZ-NH1	5.58	127.08	121.50
8	m	307	THR	N-CA-C	-5.58	100.45	108.60
1	A	375	CYS	N-CA-CB	5.58	119.78	110.41
2	N	276	VAL	N-CA-C	-5.58	100.02	108.17
8	f	423	ASN	OD1-CG-ND2	5.58	128.18	122.60
2	F	313	ASP	CA-CB-CG	-5.58	107.02	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	421	VAL	O-C-N	5.58	127.28	121.87
3	I	567	LEU	CB-CA-C	-5.58	101.37	110.85
3	K	293	MET	CG-SD-CE	-5.58	88.63	100.90
3	K	622	SER	N-CA-C	5.58	118.29	111.82
8	b	81	PRO	CA-C-N	5.58	128.69	120.82
8	b	81	PRO	C-N-CA	5.58	128.69	120.82
8	g	139	HIS	CA-CB-CG	5.58	119.38	113.80
2	D	499	GLN	CA-C-N	5.58	129.15	120.68
2	D	499	GLN	C-N-CA	5.58	129.15	120.68
2	F	443	HIS	CE1-NE2-CD2	-5.58	103.42	109.00
8	b	103	ASN	O-C-N	5.58	130.16	123.36
8	f	393	ARG	NE-CZ-NH2	5.58	124.22	119.20
2	D	415	GLN	OE1-CD-NE2	-5.57	117.03	122.60
1	E	437	GLN	N-CA-C	-5.57	100.31	109.40
2	F	411	ARG	CA-C-N	5.57	128.78	120.31
2	F	411	ARG	C-N-CA	5.57	128.78	120.31
6	P	258	PRO	CA-C-N	5.57	128.78	120.31
6	P	258	PRO	C-N-CA	5.57	128.78	120.31
8	e	381	HIS	N-CA-C	-5.57	100.80	109.72
8	h	204	VAL	N-CA-CB	5.57	117.90	110.26
8	i	96	HIS	CE1-NE2-CD2	-5.57	103.43	109.00
2	D	744	ASP	N-CA-CB	5.57	119.77	110.41
2	N	432	TRP	CG-CD2-CE3	-5.57	128.33	133.90
2	N	872	LEU	CA-C-N	5.57	128.30	120.28
2	N	872	LEU	C-N-CA	5.57	128.30	120.28
8	i	341	ARG	NE-CZ-NH1	5.57	127.07	121.50
1	G	635	THR	CA-CB-OG1	5.57	117.96	109.60
1	G	719	ASP	CA-CB-CG	5.57	118.17	112.60
2	H	316	PHE	N-CA-C	5.57	122.67	110.80
2	H	423	TYR	CA-C-O	-5.57	112.53	120.16
2	H	493	HIS	N-CA-C	-5.57	105.69	112.88
6	P	196	ARG	CA-C-O	-5.57	112.40	119.31
7	U	605	ASN	CB-CG-ND2	-5.57	108.05	116.40
8	f	177	GLU	CB-CG-CD	-5.57	103.13	112.60
8	g	356	ILE	N-CA-C	-5.57	98.94	106.85
8	m	55	ALA	O-C-N	5.57	129.66	122.81
1	C	575	GLU	CA-C-N	5.57	131.72	121.70
1	C	575	GLU	C-N-CA	5.57	131.72	121.70
1	E	258	LEU	O-C-N	5.57	128.50	122.15
1	E	370	GLN	CA-CB-CG	5.57	125.24	114.10
5	L	577	SER	CA-CB-OG	-5.57	99.97	111.10
2	O	26	ALA	O-C-N	5.57	128.87	122.25

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	c	136	VAL	N-CA-C	-5.57	99.73	107.80
1	E	542	VAL	O-C-N	-5.57	115.56	122.52
2	N	607	THR	N-CA-C	-5.57	106.16	113.17
8	f	231	LEU	CA-C-N	5.57	130.36	121.34
8	f	231	LEU	C-N-CA	5.57	130.36	121.34
3	K	6	LEU	O-C-N	-5.56	116.22	122.12
2	T	15	ASN	CA-CB-CG	5.56	118.16	112.60
8	e	132	LEU	CA-C-N	5.56	128.19	120.63
8	e	132	LEU	C-N-CA	5.56	128.19	120.63
8	f	119	PHE	N-CA-C	-5.56	105.81	112.59
8	i	124	ARG	NE-CZ-NH1	-5.56	115.94	121.50
1	G	550	LEU	CA-C-N	5.56	130.01	120.72
1	G	550	LEU	C-N-CA	5.56	130.01	120.72
2	R	12	LEU	CA-C-N	5.56	128.19	120.29
2	R	12	LEU	C-N-CA	5.56	128.19	120.29
8	d	393	ARG	NE-CZ-NH1	-5.56	115.94	121.50
4	J	236	SER	N-CA-C	-5.56	105.85	113.30
4	J	890	ASN	CA-C-O	-5.56	114.53	120.42
3	K	353	GLN	OE1-CD-NE2	-5.56	117.04	122.60
7	U	668	ARG	NE-CZ-NH2	5.56	124.20	119.20
8	c	37	VAL	CB-CA-C	-5.56	102.17	111.29
2	B	842	MET	O-C-N	5.56	128.72	122.22
2	D	631	ASP	N-CA-C	5.56	117.71	110.43
3	K	317	GLN	O-C-N	-5.56	116.44	121.39
8	f	256	LEU	CA-C-N	5.56	129.87	120.64
8	f	256	LEU	C-N-CA	5.56	129.87	120.64
8	j	29	HIS	ND1-CE1-NE2	5.56	113.96	108.40
8	l	82	TYR	CA-CB-CG	-5.56	103.90	113.90
1	C	277	GLU	CA-C-O	-5.56	113.58	119.97
1	E	616	SER	CA-C-N	5.56	130.16	122.77
1	E	616	SER	C-N-CA	5.56	130.16	122.77
8	c	225	PHE	CA-C-N	5.56	132.15	121.54
8	c	225	PHE	C-N-CA	5.56	132.15	121.54
8	h	277	THR	CA-CB-OG1	5.56	117.93	109.60
8	h	329	ASP	N-CA-CB	5.56	119.50	110.05
2	B	873	ARG	NE-CZ-NH2	5.55	124.20	119.20
2	D	884	HIS	CE1-NE2-CD2	-5.55	103.44	109.00
3	K	621	GLN	OE1-CD-NE2	5.55	128.15	122.60
5	L	457	LEU	CA-C-N	5.55	130.08	120.58
5	L	457	LEU	C-N-CA	5.55	130.08	120.58
5	L	1688	ARG	CD-NE-CZ	5.55	132.18	124.40
2	N	517	ASP	CA-C-N	5.55	128.18	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	517	ASP	C-N-CA	5.55	128.18	120.29
8	b	347	ASN	OD1-CG-ND2	5.55	128.16	122.60
8	e	381	HIS	CE1-NE2-CD2	-5.55	103.45	109.00
8	l	423	ASN	CA-CB-CG	5.55	118.16	112.60
1	A	569	LYS	CB-CG-CD	5.55	124.07	111.30
8	h	401	ARG	NE-CZ-NH2	5.55	124.20	119.20
9	o	9	SER	CA-C-N	5.55	127.72	120.28
9	o	9	SER	C-N-CA	5.55	127.72	120.28
2	F	613	ASN	CA-C-N	5.55	125.48	119.76
2	F	613	ASN	C-N-CA	5.55	125.48	119.76
2	N	264	PHE	CA-C-N	5.55	129.43	122.43
2	N	264	PHE	C-N-CA	5.55	129.43	122.43
6	P	212	ILE	CA-C-N	5.55	128.27	120.28
6	P	212	ILE	C-N-CA	5.55	128.27	120.28
8	b	263	THR	CA-C-N	5.55	126.78	119.84
8	b	263	THR	C-N-CA	5.55	126.78	119.84
8	k	372	ARG	N-CA-CB	5.55	118.21	109.83
1	E	324	TRP	CB-CG-CD2	5.55	134.57	126.80
4	J	312	GLN	OE1-CD-NE2	-5.55	117.05	122.60
2	Q	22	GLY	CA-C-N	5.55	129.23	121.02
2	Q	22	GLY	C-N-CA	5.55	129.23	121.02
8	l	312	GLN	N-CA-C	-5.55	105.12	112.94
4	J	255	PRO	N-CA-C	-5.55	101.04	112.47
5	L	8	PHE	N-CA-C	5.55	117.33	111.28
3	I	604	ASP	CA-CB-CG	-5.55	107.05	112.60
3	I	621	GLN	CA-C-N	5.55	128.16	120.29
3	I	621	GLN	C-N-CA	5.55	128.16	120.29
1	M	696	MET	N-CA-CB	5.55	118.84	110.30
2	N	511	SER	CA-C-O	-5.55	114.67	120.55
8	a	180	HIS	ND1-CE1-NE2	5.55	113.95	108.40
8	e	161	TYR	CB-CG-CD2	5.55	129.12	120.80
8	f	266	LEU	N-CA-C	-5.55	98.98	110.80
8	l	100	ALA	CA-C-N	5.55	131.68	121.70
8	l	100	ALA	C-N-CA	5.55	131.68	121.70
1	G	525	ASP	CA-C-O	-5.54	114.99	120.70
7	W	659	LYS	N-CA-C	-5.54	105.14	111.07
8	h	299	GLN	N-CA-CB	5.54	119.98	110.05
3	I	184	TYR	CA-C-N	5.54	127.71	120.28
3	I	184	TYR	C-N-CA	5.54	127.71	120.28
4	J	257	ASP	CA-CB-CG	5.54	118.14	112.60
8	d	137	LEU	O-C-N	-5.54	115.64	122.68
8	i	283	ALA	N-CA-C	-5.54	107.77	114.75

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	296	ARG	O-C-N	5.54	128.27	122.23
8	l	96	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
8	l	137	LEU	CA-C-O	-5.54	115.37	121.58
2	B	445	PHE	N-CA-C	-5.54	102.26	110.46
2	D	260	ILE	CA-C-N	5.54	132.12	121.54
2	D	260	ILE	C-N-CA	5.54	132.12	121.54
2	F	473	PHE	N-CA-CB	5.54	118.65	110.56
2	F	640	ASP	N-CA-C	-5.54	100.75	109.50
5	L	7	LEU	CA-C-O	5.54	126.83	120.90
2	N	877	PHE	N-CA-CB	5.54	118.36	110.16
2	R	43	PHE	CA-CB-CG	-5.54	108.26	113.80
2	T	32	PHE	CA-C-N	5.54	127.71	120.28
2	T	32	PHE	C-N-CA	5.54	127.71	120.28
8	e	68	ASP	O-C-N	-5.54	116.93	123.25
9	r	13	GLU	CA-C-N	5.54	127.64	120.44
9	r	13	GLU	C-N-CA	5.54	127.64	120.44
1	C	537	GLU	CA-C-O	5.54	125.91	119.32
4	J	890	ASN	O-C-N	5.54	128.47	122.15
5	L	438	ARG	NE-CZ-NH2	-5.54	114.22	119.20
8	b	229	ASN	N-CA-C	-5.54	106.57	113.38
8	b	335	LYS	CG-CD-CE	5.54	124.04	111.30
8	i	297	LEU	CA-C-N	5.54	131.24	122.60
8	i	297	LEU	C-N-CA	5.54	131.24	122.60
8	k	200	ASP	N-CA-C	-5.54	105.56	112.93
6	P	40	HIS	CE1-NE2-CD2	-5.54	103.46	109.00
8	b	96	HIS	CA-C-O	5.54	126.68	120.70
8	j	399	ARG	NE-CZ-NH1	-5.54	115.96	121.50
1	A	561	SER	CA-C-N	5.54	130.68	122.82
1	A	561	SER	C-N-CA	5.54	130.68	122.82
2	B	319	VAL	N-CA-C	5.54	120.85	109.34
3	I	186	GLN	CB-CG-CD	-5.54	103.19	112.60
3	I	413	LEU	N-CA-C	-5.54	105.74	112.88
6	P	161	HIS	CE1-NE2-CD2	-5.54	103.47	109.00
2	R	88	LYS	CG-CD-CE	5.54	124.03	111.30
8	a	384	ILE	N-CA-C	5.54	120.60	113.07
8	e	414	PHE	CA-CB-CG	-5.54	108.26	113.80
8	n	102	ASN	N-CA-CB	5.54	119.85	110.49
8	n	276	LEU	N-CA-CB	-5.54	102.45	110.70
1	A	403	TYR	N-CA-CB	5.53	120.37	110.80
2	H	697	SER	N-CA-C	5.53	117.12	111.14
4	J	723	LEU	N-CA-C	-5.53	105.31	113.61
7	U	632	GLN	N-CA-C	5.53	117.31	111.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	156	ARG	NE-CZ-NH2	5.53	124.18	119.20
8	l	285	VAL	O-C-N	5.53	128.05	121.80
8	m	37	VAL	N-CA-C	-5.53	107.34	112.43
1	A	234	VAL	CA-CB-CG2	-5.53	101.00	110.40
2	D	721	ILE	CA-CB-CG1	5.53	119.80	110.40
2	N	867	SER	N-CA-C	-5.53	99.27	108.34
8	e	100	ALA	CA-C-N	5.53	131.66	121.70
8	e	100	ALA	C-N-CA	5.53	131.66	121.70
8	i	152	TYR	CA-C-O	5.53	126.38	120.24
8	i	323	ILE	N-CA-CB	5.53	117.68	111.21
1	G	370	GLN	N-CA-CB	5.53	118.09	110.07
6	P	309	ILE	N-CA-C	-5.53	105.49	113.07
8	g	296	ARG	NE-CZ-NH2	5.53	124.18	119.20
8	h	11	GLY	O-C-N	5.53	129.79	123.21
8	l	134	GLY	CA-C-O	5.53	127.28	121.08
6	P	169	TYR	O-C-N	-5.53	116.75	123.27
2	R	78	HIS	CG-CD2-NE2	5.53	112.73	107.20
8	m	123	ASP	CA-C-O	5.53	125.90	119.32
1	C	492	ASN	N-CA-C	-5.53	106.38	113.23
2	F	644	ASP	CA-C-N	5.53	130.55	121.87
2	F	644	ASP	C-N-CA	5.53	130.55	121.87
2	F	783	GLU	O-C-N	-5.53	115.47	122.27
4	J	295	ASP	N-CA-CB	5.53	119.83	110.49
4	J	942	VAL	N-CA-CB	5.53	117.11	110.31
1	C	222	TYR	N-CA-C	5.53	118.23	111.82
4	J	432	LEU	N-CA-C	-5.53	106.67	113.41
3	K	118	SER	N-CA-C	-5.53	102.28	110.46
8	a	89	GLU	CA-C-N	5.53	130.44	121.98
8	a	89	GLU	C-N-CA	5.53	130.44	121.98
8	c	423	ASN	CB-CG-OD1	-5.53	109.75	120.80
8	d	58	GLU	CB-CG-CD	-5.53	103.21	112.60
8	e	268	PHE	CA-C-N	-5.53	115.10	122.72
8	e	268	PHE	C-N-CA	-5.53	115.10	122.72
8	l	267	HIS	CE1-NE2-CD2	-5.53	103.47	109.00
8	n	115	HIS	ND1-CE1-NE2	5.53	113.93	108.40
8	e	247	GLY	N-CA-C	-5.52	100.09	113.18
1	C	708	LEU	N-CA-C	-5.52	106.04	112.89
1	E	263	LEU	CA-C-N	5.52	126.74	119.84
1	E	263	LEU	C-N-CA	5.52	126.74	119.84
2	F	298	TRP	CA-C-N	5.52	128.71	120.31
2	F	298	TRP	C-N-CA	5.52	128.71	120.31
2	F	437	GLU	O-C-N	-5.52	116.23	122.97

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	459	CYS	CA-C-N	5.52	130.81	121.14
4	J	459	CYS	C-N-CA	5.52	130.81	121.14
4	J	748	LEU	CA-C-N	5.52	131.64	121.70
4	J	748	LEU	C-N-CA	5.52	131.64	121.70
8	e	203	VAL	O-C-N	-5.52	117.67	123.03
2	F	599	ILE	O-C-N	-5.52	116.14	121.83
2	R	43	PHE	N-CA-C	-5.52	99.67	109.06
8	c	256	LEU	CA-C-N	5.52	129.35	120.30
8	c	256	LEU	C-N-CA	5.52	129.35	120.30
1	A	332	ARG	O-C-N	5.52	130.49	122.43
4	J	233	HIS	CB-CG-CD2	-5.52	124.03	131.20
6	P	67	LEU	N-CA-C	-5.52	101.28	110.17
2	Q	55	THR	N-CA-CB	5.52	118.23	110.12
8	e	158	ASN	CA-C-N	-5.52	112.66	121.44
8	e	158	ASN	C-N-CA	-5.52	112.66	121.44
8	h	83	ALA	N-CA-C	-5.52	106.43	112.72
8	j	266	LEU	N-CA-C	-5.52	99.04	110.80
2	D	634	TRP	CD2-CE2-CZ2	-5.52	116.88	122.40
2	F	369	TRP	CD2-CE2-CZ2	-5.52	116.88	122.40
2	H	473	PHE	N-CA-C	-5.52	106.68	113.41
9	s	10	ALA	CA-C-N	5.52	128.02	120.46
9	s	10	ALA	C-N-CA	5.52	128.02	120.46
8	e	422	ASP	CA-CB-CG	5.52	118.12	112.60
9	s	64	LEU	O-C-N	5.52	127.97	122.12
2	D	768	ARG	N-CA-C	-5.51	103.72	110.61
1	E	851	GLU	CA-C-O	5.51	128.28	121.94
1	G	691	ASN	O-C-N	5.51	127.77	122.03
7	W	597	ALA	CA-C-N	5.51	128.01	120.46
7	W	597	ALA	C-N-CA	5.51	128.01	120.46
8	b	48	LYS	CB-CA-C	-5.51	102.09	111.02
8	g	405	LEU	N-CA-C	-5.51	105.34	113.61
8	n	315	HIS	CG-CD2-NE2	5.51	112.71	107.20
8	f	390	ARG	NE-CZ-NH1	-5.51	115.99	121.50
1	G	451	SER	CA-C-O	-5.51	112.47	119.31
1	C	828	ASP	N-CA-C	5.51	118.05	111.71
3	I	519	HIS	CE1-NE2-CD2	-5.51	103.49	109.00
2	N	650	VAL	O-C-N	5.51	129.72	122.12
2	T	56	GLU	N-CA-CB	5.51	118.00	110.01
8	f	225	PHE	CA-CB-CG	-5.51	108.29	113.80
8	k	150	GLY	O-C-N	-5.51	116.28	122.28
1	C	653	LEU	N-CA-CB	5.51	118.22	110.12
2	F	683	HIS	CE1-NE2-CD2	-5.51	103.49	109.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	R	84	GLN	CG-CD-NE2	5.51	124.66	116.40
8	c	142	ALA	N-CA-C	5.51	118.31	110.10
8	l	160	ARG	N-CA-CB	5.51	118.33	110.67
2	B	858	GLN	OE1-CD-NE2	-5.50	117.09	122.60
8	c	259	SER	N-CA-C	-5.50	106.61	113.38
8	n	6	ILE	O-C-N	-5.50	116.66	123.10
8	n	323	ILE	N-CA-C	-5.50	99.95	107.99
3	K	480	TYR	N-CA-C	-5.50	105.30	112.23
9	s	59	ARG	CA-C-N	5.50	127.66	120.28
9	s	59	ARG	C-N-CA	5.50	127.66	120.28
5	L	108	ASP	CA-C-N	5.50	128.20	120.28
5	L	108	ASP	C-N-CA	5.50	128.20	120.28
2	T	43	PHE	N-CA-CB	5.50	119.55	110.69
8	d	401	ARG	CA-C-N	5.50	132.05	121.54
8	d	401	ARG	C-N-CA	5.50	132.05	121.54
8	f	158	ASN	CA-CB-CG	-5.50	107.10	112.60
8	i	242	THR	N-CA-C	-5.50	104.82	112.30
2	D	518	ALA	CB-CA-C	-5.50	101.66	110.79
2	F	800	GLN	N-CA-CB	5.50	118.30	110.16
3	I	490	GLU	N-CA-C	5.50	119.16	112.23
8	k	206	ASP	N-CA-C	-5.50	101.61	110.14
9	t	42	GLU	N-CA-C	5.50	118.03	111.71
5	L	443	TYR	CA-C-O	5.50	126.29	119.97
8	a	341	ARG	CA-C-O	5.50	126.14	119.38
8	c	135	PHE	CA-CB-CG	-5.50	108.30	113.80
8	e	263	THR	N-CA-CB	5.50	120.16	110.37
8	f	161	TYR	O-C-N	5.50	125.82	121.20
8	h	276	LEU	O-C-N	-5.50	115.28	122.59
8	k	265	ARG	N-CA-C	-5.50	99.09	110.80
3	K	545	GLN	CA-CB-CG	5.50	125.09	114.10
1	M	556	LEU	N-CA-C	5.50	117.08	111.14
2	S	16	LEU	CA-C-N	5.50	127.59	120.44
2	S	16	LEU	C-N-CA	5.50	127.59	120.44
8	k	22	TRP	N-CA-C	-5.50	105.44	111.82
1	G	295	MET	CA-C-N	5.50	128.09	120.29
1	G	295	MET	C-N-CA	5.50	128.09	120.29
1	G	400	ASN	OD1-CG-ND2	5.50	128.09	122.60
2	H	531	THR	O-C-N	-5.50	114.20	122.28
4	J	466	ARG	CA-C-O	-5.50	112.63	120.16
4	J	877	ARG	CG-CD-NE	-5.50	99.91	112.00
2	F	298	TRP	N-CA-C	-5.49	105.45	111.82
3	I	633	ARG	CA-C-N	5.49	128.65	120.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	633	ARG	C-N-CA	5.49	128.65	120.90
4	J	421	PRO	CA-C-N	5.49	128.90	120.82
4	J	421	PRO	C-N-CA	5.49	128.90	120.82
3	K	134	PRO	N-CA-C	-5.49	106.37	113.57
5	L	435	SER	N-CA-C	-5.49	105.45	111.82
2	N	328	HIS	CE1-NE2-CD2	-5.49	103.51	109.00
8	c	127	ASP	N-CA-C	-5.49	106.36	112.57
8	d	172	PHE	N-CA-CB	5.49	117.36	109.78
8	d	179	SER	CA-C-O	5.49	125.99	119.56
8	g	436	HIS	O-C-N	-5.49	116.91	123.06
1	G	255	VAL	N-CA-C	5.49	117.95	111.09
8	m	385	SER	CA-C-N	5.49	128.66	120.31
8	m	385	SER	C-N-CA	5.49	128.66	120.31
9	o	39	ARG	CA-C-N	5.49	127.58	120.44
9	o	39	ARG	C-N-CA	5.49	127.58	120.44
1	G	344	LEU	O-C-N	-5.49	115.52	122.27
2	H	453	VAL	CA-C-N	5.49	128.67	120.87
2	H	453	VAL	C-N-CA	5.49	128.67	120.87
2	H	877	PHE	N-CA-C	-5.49	105.31	112.23
6	P	345	ILE	CA-CB-CG2	5.49	119.83	110.50
2	S	39	ILE	O-C-N	-5.49	115.60	121.80
8	d	198	ASN	CA-CB-CG	5.49	118.09	112.60
8	k	74	ILE	O-C-N	-5.49	115.70	122.18
2	B	276	VAL	N-CA-C	-5.49	99.60	107.78
2	H	324	CYS	CA-C-N	5.49	127.64	120.28
2	H	324	CYS	C-N-CA	5.49	127.64	120.28
3	I	82	HIS	ND1-CE1-NE2	5.49	113.89	108.40
1	M	403	TYR	N-CA-C	-5.49	104.84	112.03
2	T	22	GLY	N-CA-C	-5.49	100.17	113.18
8	h	427	ILE	CA-C-O	-5.49	115.03	120.85
8	e	9	GLN	OE1-CD-NE2	5.49	128.09	122.60
8	g	383	ASN	CA-C-N	5.49	129.91	121.19
8	g	383	ASN	C-N-CA	5.49	129.91	121.19
1	A	553	LEU	CA-C-N	5.49	128.18	120.28
1	A	553	LEU	C-N-CA	5.49	128.18	120.28
2	H	876	SER	N-CA-C	5.49	118.18	111.82
2	Q	11	VAL	CA-C-N	5.49	128.08	120.29
2	Q	11	VAL	C-N-CA	5.49	128.08	120.29
8	d	250	ASN	N-CA-CB	5.49	119.76	110.49
8	k	313	THR	N-CA-C	-5.49	105.38	113.61
1	A	240	ARG	CA-C-N	5.48	132.01	121.54
1	A	240	ARG	C-N-CA	5.48	132.01	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	373	PRO	O-C-N	-5.48	115.65	122.23
1	C	755	VAL	N-CA-C	-5.48	104.09	111.44
9	r	49	ALA	CA-C-O	5.48	126.36	120.55
1	E	363	PHE	CA-C-N	5.48	126.03	120.00
1	E	363	PHE	C-N-CA	5.48	126.03	120.00
3	I	537	GLU	N-CA-CB	5.48	117.93	109.98
2	S	47	VAL	CA-CB-CG2	-5.48	101.08	110.40
8	m	408	PHE	CA-C-O	5.48	125.28	118.43
1	C	282	PHE	CA-CB-CG	5.48	119.28	113.80
1	C	515	ILE	O-C-N	5.48	127.19	121.87
2	R	45	PRO	N-CA-C	5.48	120.19	111.26
8	e	311	ARG	N-CA-C	-5.48	106.47	112.72
8	k	327	GLU	CA-C-O	5.48	127.14	120.62
1	M	455	TYR	CA-C-N	5.48	129.87	120.72
1	M	455	TYR	C-N-CA	5.48	129.87	120.72
8	d	280	GLN	N-CA-C	-5.48	103.76	110.61
9	q	48	GLU	CB-CG-CD	-5.48	103.28	112.60
2	B	594	HIS	N-CA-C	5.48	118.17	111.82
1	C	652	ARG	CA-C-N	5.48	127.62	120.28
1	C	652	ARG	C-N-CA	5.48	127.62	120.28
2	D	470	ILE	O-C-N	-5.48	117.19	121.46
1	E	523	GLN	N-CA-C	-5.48	101.33	109.11
2	F	653	ARG	NE-CZ-NH1	-5.48	116.02	121.50
2	H	613	ASN	N-CA-CB	5.48	118.92	110.43
1	M	357	LEU	N-CA-CB	5.48	118.36	110.20
6	P	363	ASP	CA-CB-CG	-5.48	107.12	112.60
8	b	381	HIS	ND1-CE1-NE2	5.48	113.88	108.40
8	f	124	ARG	N-CA-C	-5.48	106.64	113.38
8	j	336	SER	CA-C-O	-5.48	114.61	120.42
2	F	857	VAL	N-CA-C	5.48	117.89	111.05
3	I	26	GLN	CG-CD-NE2	-5.48	108.19	116.40
3	K	519	HIS	ND1-CE1-NE2	5.48	113.88	108.40
5	L	423	SER	O-C-N	-5.48	117.56	123.42
1	E	740	ASN	CA-CB-CG	5.47	118.08	112.60
2	H	611	PHE	N-CA-C	-5.47	101.35	109.83
1	M	523	GLN	CA-C-N	5.47	132.14	121.41
1	M	523	GLN	C-N-CA	5.47	132.14	121.41
8	e	271	THR	N-CA-CB	5.47	120.36	110.83
8	e	276	LEU	CA-C-O	5.47	126.13	119.78
9	q	23	ARG	CA-C-N	5.47	127.62	120.28
9	q	23	ARG	C-N-CA	5.47	127.62	120.28
2	F	439	GLU	N-CA-CB	5.47	119.74	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	b	404	PHE	CA-CB-CG	-5.47	108.33	113.80
8	d	80	SER	N-CA-C	-5.47	97.72	109.81
8	h	229	ASN	CA-C-N	5.47	133.30	121.64
8	h	229	ASN	C-N-CA	5.47	133.30	121.64
8	k	32	SER	N-CA-CB	5.47	117.33	109.78
8	n	352	GLY	CA-C-N	5.47	127.40	120.51
8	n	352	GLY	C-N-CA	5.47	127.40	120.51
1	A	508	LEU	CA-C-N	5.47	129.27	120.30
1	A	508	LEU	C-N-CA	5.47	129.27	120.30
2	D	742	ASP	N-CA-C	-5.47	99.15	110.80
4	J	394	VAL	CA-C-N	5.47	131.25	122.83
4	J	394	VAL	C-N-CA	5.47	131.25	122.83
5	L	49	VAL	CB-CA-C	-5.47	104.76	112.14
2	N	574	ARG	CA-C-O	5.47	126.22	120.42
8	b	180	HIS	CB-CG-CD2	-5.47	124.09	131.20
8	d	127	ASP	CA-CB-CG	5.47	118.07	112.60
8	f	407	GLN	N-CA-C	-5.47	105.83	112.88
8	l	86	TYR	CA-C-N	5.47	129.89	122.56
8	l	86	TYR	C-N-CA	5.47	129.89	122.56
9	t	20	GLU	CA-C-O	-5.47	115.08	120.82
1	A	270	SER	O-C-N	5.47	128.62	122.22
1	A	411	HIS	ND1-CE1-NE2	5.47	113.87	108.40
1	E	368	ASP	CA-CB-CG	-5.47	107.13	112.60
2	F	601	GLU	N-CA-C	5.47	118.16	111.82
2	T	90	ARG	CA-C-N	5.47	127.55	120.44
2	T	90	ARG	C-N-CA	5.47	127.55	120.44
8	k	402	GLU	N-CA-CB	5.47	120.78	112.47
2	F	390	ARG	CA-C-N	5.47	131.43	121.97
2	F	390	ARG	C-N-CA	5.47	131.43	121.97
1	G	379	THR	CA-CB-CG2	5.47	119.79	110.50
3	I	392	VAL	O-C-N	-5.47	115.62	121.80
8	b	261	ILE	CA-C-N	5.47	124.81	118.85
8	b	261	ILE	C-N-CA	5.47	124.81	118.85
8	b	384	ILE	CA-CB-CG2	-5.47	101.21	110.50
8	l	254	ILE	O-C-N	5.47	128.89	122.17
2	B	666	LEU	CA-C-N	5.46	127.60	120.28
2	B	666	LEU	C-N-CA	5.46	127.60	120.28
2	D	461	ASP	CA-CB-CG	5.46	118.06	112.60
3	I	495	TRP	CA-CB-CG	5.46	123.98	113.60
3	I	566	ASN	N-CA-C	-5.46	105.34	112.23
4	J	962	ARG	NE-CZ-NH1	-5.46	116.03	121.50
5	L	421	ASP	N-CA-CB	5.46	118.54	110.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	a	422	ASP	O-C-N	5.46	129.33	122.23
8	c	370	ALA	CA-C-O	-5.46	116.10	121.02
8	g	297	LEU	CA-C-N	5.46	128.05	120.29
8	g	297	LEU	C-N-CA	5.46	128.05	120.29
2	N	608	ASN	N-CA-CB	5.46	119.72	110.49
7	U	632	GLN	CB-CG-CD	5.46	121.89	112.60
8	b	38	GLU	N-CA-C	-5.46	100.12	109.24
8	l	382	THR	CA-CB-OG1	5.46	117.79	109.60
2	H	461	ASP	CA-C-O	5.46	126.92	120.58
3	I	319	LEU	N-CA-CB	5.46	118.89	110.21
8	b	74	ILE	CA-C-N	5.46	132.23	121.58
8	b	74	ILE	C-N-CA	5.46	132.23	121.58
8	i	44	GLY	CA-C-N	5.46	129.94	122.84
8	i	44	GLY	C-N-CA	5.46	129.94	122.84
1	C	571	ASP	CA-C-N	5.46	128.99	120.75
1	C	571	ASP	C-N-CA	5.46	128.99	120.75
1	E	449	ILE	CA-CB-CG1	5.46	119.68	110.40
5	L	406	THR	O-C-N	-5.46	115.13	122.23
8	j	220	ILE	CA-C-O	-5.46	115.37	121.98
1	A	717	ASN	CA-CB-CG	5.46	118.06	112.60
1	E	473	GLU	N-CA-CB	5.46	118.13	109.51
2	F	842	MET	N-CA-C	-5.46	105.49	111.82
2	H	838	SER	N-CA-C	-5.46	106.46	113.01
3	I	466	PHE	CB-CG-CD1	-5.46	111.42	120.70
8	d	160	ARG	CD-NE-CZ	-5.46	116.76	124.40
8	f	124	ARG	CA-CB-CG	5.46	125.02	114.10
8	h	84	ASN	N-CA-C	-5.46	105.42	113.61
8	n	217	ARG	NE-CZ-NH2	-5.46	114.29	119.20
2	B	642	HIS	CB-CG-CD2	-5.46	124.11	131.20
2	H	438	LEU	N-CA-CB	5.46	120.90	111.13
2	H	704	HIS	CE1-NE2-CD2	-5.46	103.54	109.00
2	N	264	PHE	N-CA-CB	5.46	119.52	110.63
8	d	29	HIS	CG-CD2-NE2	5.46	112.66	107.20
5	L	556	VAL	CA-C-N	5.46	131.96	121.54
5	L	556	VAL	C-N-CA	5.46	131.96	121.54
8	c	212	ARG	N-CA-C	5.46	118.15	111.82
8	e	363	LYS	CG-CD-CE	5.46	123.85	111.30
2	F	740	ALA	N-CA-CB	5.45	119.97	110.81
2	O	27	ASP	CA-CB-CG	5.45	118.05	112.60
7	U	640	ILE	N-CA-C	5.45	116.18	110.62
8	b	144	GLY	CA-C-N	5.45	128.05	120.63
8	b	144	GLY	C-N-CA	5.45	128.05	120.63

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	g	305	VAL	CA-CB-CG1	5.45	119.67	110.40
1	A	741	PRO	CA-C-O	-5.45	111.26	119.55
1	E	438	ILE	CA-C-O	-5.45	112.64	119.95
1	M	375	CYS	CA-C-N	5.45	128.03	120.29
1	M	375	CYS	C-N-CA	5.45	128.03	120.29
2	D	276	VAL	N-CA-CB	5.45	118.08	110.56
3	I	580	HIS	N-CA-CB	5.45	118.69	110.30
4	J	764	ARG	NE-CZ-NH2	5.45	124.11	119.20
5	L	1424	SER	O-C-N	-5.45	116.95	123.27
2	N	342	HIS	N-CA-C	5.45	118.14	111.82
2	N	416	HIS	CE1-NE2-CD2	-5.45	103.55	109.00
6	P	64	ILE	N-CA-C	-5.45	107.49	113.43
8	a	2	PRO	N-CD-CG	5.45	111.38	103.20
8	c	25	LEU	N-CA-C	5.45	118.14	111.82
8	d	185	PRO	CA-C-O	-5.45	111.37	119.00
8	e	179	SER	CA-C-N	5.45	130.80	122.24
8	e	179	SER	C-N-CA	5.45	130.80	122.24
8	h	125	GLU	N-CA-C	-5.45	107.88	114.75
1	C	347	GLY	CA-C-N	5.45	130.10	122.36
1	C	347	GLY	C-N-CA	5.45	130.10	122.36
2	R	20	ILE	N-CA-CB	5.45	118.75	110.58
8	a	99	GLY	CA-C-N	5.45	127.58	120.28
8	a	99	GLY	C-N-CA	5.45	127.58	120.28
8	c	63	ARG	O-C-N	5.45	129.97	122.83
8	c	240	THR	CA-C-O	-5.45	114.47	120.30
8	g	390	ARG	O-C-N	-5.45	115.94	122.15
8	k	187	ASN	OD1-CG-ND2	-5.45	117.15	122.60
1	E	252	ASP	CA-C-O	5.45	128.09	120.52
1	G	372	GLN	CA-C-N	5.45	128.59	120.31
1	G	372	GLN	C-N-CA	5.45	128.59	120.31
3	I	468	PRO	CA-C-O	-5.45	110.67	118.89
2	S	16	LEU	CA-C-O	-5.45	115.10	120.82
8	j	410	LYS	O-C-N	5.45	128.75	121.67
1	A	466	VAL	CA-CB-CG1	-5.45	101.14	110.40
1	C	759	ASN	CA-C-N	5.45	128.02	120.29
1	C	759	ASN	C-N-CA	5.45	128.02	120.29
2	F	380	LEU	O-C-N	-5.45	115.03	122.33
1	G	676	ALA	CA-C-N	5.45	127.14	120.22
1	G	676	ALA	C-N-CA	5.45	127.14	120.22
5	L	1543	ARG	NE-CZ-NH2	-5.45	114.30	119.20
7	W	633	PHE	CA-CB-CG	-5.45	108.36	113.80
8	b	114	ILE	N-CA-C	-5.45	98.01	109.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	80	SER	CA-C-O	-5.45	115.05	120.66
8	j	345	LEU	CA-C-N	5.45	130.24	122.72
8	j	345	LEU	C-N-CA	5.45	130.24	122.72
1	E	643	HIS	ND1-CE1-NE2	5.44	113.84	108.40
2	H	789	ASP	CA-C-N	5.44	128.59	120.31
2	H	789	ASP	C-N-CA	5.44	128.59	120.31
4	J	242	TRP	CB-CG-CD1	-5.44	118.73	126.90
8	a	159	ASP	CA-CB-CG	5.44	118.04	112.60
8	k	211	ASN	CB-CG-ND2	-5.44	108.23	116.40
2	D	251	ARG	CD-NE-CZ	5.44	132.02	124.40
2	H	342	HIS	CA-C-N	5.44	129.81	120.72
2	H	342	HIS	C-N-CA	5.44	129.81	120.72
1	M	289	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
1	M	643	HIS	CG-CD2-NE2	5.44	112.64	107.20
8	i	309	ARG	N-CA-C	-5.44	107.29	114.04
8	j	253	LEU	N-CA-C	-5.44	105.37	112.23
2	B	447	VAL	CB-CA-C	5.44	118.06	110.99
3	I	551	ARG	NH1-CZ-NH2	-5.44	112.23	119.30
1	M	480	GLU	CA-C-N	5.44	131.93	121.54
1	M	480	GLU	C-N-CA	5.44	131.93	121.54
8	g	381	HIS	CE1-NE2-CD2	-5.44	103.56	109.00
9	t	9	SER	CA-C-N	5.44	127.57	120.28
9	t	9	SER	C-N-CA	5.44	127.57	120.28
2	D	740	ALA	N-CA-C	-5.44	99.54	108.41
6	P	330	ILE	N-CA-CB	5.44	118.00	111.31
2	S	113	SER	O-C-N	5.44	128.32	122.34
8	b	136	VAL	N-CA-C	-5.44	99.91	107.80
8	e	361	SER	O-C-N	-5.44	117.39	123.48
8	g	436	HIS	N-CA-CB	5.44	119.28	110.41
8	j	206	ASP	N-CA-C	-5.44	100.45	108.99
1	G	306	ILE	CA-C-O	-5.44	114.38	120.25
2	H	710	MET	O-C-N	-5.44	115.04	122.33
2	H	854	GLN	O-C-N	-5.44	115.58	122.27
8	b	143	GLY	O-C-N	5.44	128.31	122.60
8	k	78	LEU	N-CA-C	-5.44	105.87	112.88
2	F	578	ASP	CA-CB-CG	5.44	118.04	112.60
1	M	232	ILE	N-CA-C	-5.44	99.33	107.37
8	k	175	GLN	N-CA-C	5.44	119.66	113.19
3	I	624	LEU	O-C-N	5.43	129.61	122.33
4	J	297	ILE	CA-CB-CG1	5.43	119.64	110.40
8	b	67	LEU	N-CA-C	-5.43	100.54	109.40
8	b	418	PHE	CA-CB-CG	-5.43	108.37	113.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	g	436	HIS	N-CA-C	-5.43	101.68	110.32
8	h	104	TRP	CA-CB-CG	5.43	123.93	113.60
8	h	334	HIS	CA-CB-CG	5.43	119.23	113.80
8	i	312	GLN	CG-CD-NE2	-5.43	108.25	116.40
8	j	225	PHE	CA-CB-CG	-5.43	108.37	113.80
8	k	396	ASP	CA-CB-CG	5.43	118.03	112.60
1	C	694	TYR	O-C-N	5.43	127.88	122.12
2	F	640	ASP	CA-CB-CG	5.43	118.03	112.60
1	G	361	ARG	CA-C-O	-5.43	113.72	119.97
2	H	346	GLN	CA-C-N	5.43	127.86	120.63
2	H	346	GLN	C-N-CA	5.43	127.86	120.63
4	J	208	ALA	N-CA-C	5.43	117.90	111.33
5	L	340	THR	CA-C-O	5.43	127.00	120.92
5	L	1393	GLU	N-CA-CB	5.43	118.70	110.28
5	L	1494	VAL	CA-CB-CG2	-5.43	101.17	110.40
8	f	145	THR	N-CA-C	-5.43	104.77	111.40
8	h	206	ASP	CA-CB-CG	5.43	118.03	112.60
8	k	365	PRO	CA-C-O	-5.43	112.73	118.92
8	n	200	ASP	CA-CB-CG	5.43	118.03	112.60
9	q	39	ARG	NE-CZ-NH2	5.43	124.09	119.20
2	F	575	HIS	CE1-NE2-CD2	-5.43	103.57	109.00
3	I	651	ASN	N-CA-CB	5.43	119.53	110.41
5	L	519	PRO	N-CA-CB	5.43	108.72	103.51
1	M	217	VAL	N-CA-C	5.43	119.64	112.04
2	B	347	VAL	CA-CB-CG1	-5.43	101.17	110.40
2	H	319	VAL	N-CA-C	-5.43	105.07	113.16
3	K	322	LEU	CA-C-N	5.43	128.13	120.42
3	K	322	LEU	C-N-CA	5.43	128.13	120.42
8	b	198	ASN	N-CA-C	-5.43	104.34	112.54
8	b	403	ALA	N-CA-C	-5.43	99.56	108.41
6	P	334	GLU	CA-CB-CG	5.43	124.96	114.10
8	f	277	THR	CA-C-O	-5.43	115.80	121.55
8	g	178	MET	O-C-N	-5.43	116.71	122.30
8	i	425	ARG	CA-CB-CG	5.43	124.96	114.10
8	j	210	LEU	CA-C-O	-5.43	115.11	120.70
8	l	277	THR	CA-C-N	5.43	131.50	122.54
8	l	277	THR	C-N-CA	5.43	131.50	122.54
9	p	51	SER	N-CA-C	-5.43	105.36	111.28
1	C	255	VAL	N-CA-C	5.43	117.83	111.05
2	D	257	PHE	O-C-N	-5.43	115.96	122.15
2	D	500	THR	CB-CA-C	5.43	118.01	109.27
2	F	463	TYR	CA-CB-CG	-5.43	104.13	113.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	500	ASP	CA-CB-CG	5.43	118.03	112.60
2	H	411	ARG	N-CA-CB	5.43	118.69	110.28
3	I	617	GLY	O-C-N	5.43	128.51	122.54
4	J	415	GLY	O-C-N	-5.43	115.64	122.70
8	g	380	ASN	N-CA-C	-5.43	98.37	107.32
8	i	293	VAL	CA-CB-CG1	-5.43	101.18	110.40
2	D	466	ARG	CA-C-N	5.42	131.90	121.54
2	D	466	ARG	C-N-CA	5.42	131.90	121.54
2	D	780	GLN	CA-CB-CG	5.42	124.95	114.10
1	G	244	SER	N-CA-CB	5.42	118.43	110.35
2	H	641	TYR	N-CA-C	-5.42	97.66	107.75
3	I	269	PRO	O-C-N	5.42	129.76	123.14
8	k	96	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	G	565	THR	N-CA-C	-5.42	105.97	112.59
2	N	557	HIS	CG-CD2-NE2	5.42	112.62	107.20
1	A	729	LEU	CA-C-N	5.42	127.99	120.29
1	A	729	LEU	C-N-CA	5.42	127.99	120.29
2	B	417	ILE	N-CA-C	-5.42	105.09	111.00
1	C	218	GLU	CA-C-N	5.42	128.55	120.31
1	C	218	GLU	C-N-CA	5.42	128.55	120.31
1	E	441	PHE	O-C-N	5.42	129.01	122.94
4	J	223	SER	CA-C-N	5.42	129.27	120.60
4	J	223	SER	C-N-CA	5.42	129.27	120.60
4	J	410	ARG	NE-CZ-NH1	-5.42	116.08	121.50
4	J	837	GLN	CA-C-N	5.42	128.55	120.31
4	J	837	GLN	C-N-CA	5.42	128.55	120.31
6	P	179	ASP	CA-CB-CG	5.42	118.02	112.60
8	a	296	ARG	CA-C-O	-5.42	113.08	119.48
8	f	210	LEU	N-CA-C	-5.42	104.79	111.40
8	n	87	ASN	CA-C-O	-5.42	113.51	120.83
1	A	300	LYS	N-CA-CB	5.42	118.18	110.16
2	B	662	VAL	CA-CB-CG1	5.42	119.61	110.40
2	F	346	GLN	CA-C-N	5.42	130.61	122.75
2	F	346	GLN	C-N-CA	5.42	130.61	122.75
3	I	190	TRP	N-CA-C	-5.42	105.93	112.54
5	L	323	ASP	CA-C-N	5.42	127.99	120.29
5	L	323	ASP	C-N-CA	5.42	127.99	120.29
8	b	175	GLN	OE1-CD-NE2	-5.42	117.18	122.60
8	h	409	ARG	NH1-CZ-NH2	-5.42	112.25	119.30
8	k	219	HIS	N-CA-C	5.42	122.34	110.80
1	C	340	ILE	CA-CB-CG1	5.42	119.61	110.40
2	D	366	LEU	CA-C-N	5.42	127.54	120.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	366	LEU	C-N-CA	5.42	127.54	120.28
2	H	704	HIS	ND1-CE1-NE2	5.42	113.82	108.40
3	I	15	SER	CA-C-N	5.42	129.32	121.52
3	I	15	SER	C-N-CA	5.42	129.32	121.52
3	K	109	GLN	OE1-CD-NE2	-5.42	117.18	122.60
2	Q	79	ARG	NH1-CZ-NH2	-5.42	112.26	119.30
8	h	74	ILE	O-C-N	5.42	127.54	122.23
8	h	264	PRO	CA-C-O	-5.42	115.18	121.95
8	j	419	ASP	CA-C-N	5.42	128.55	120.31
8	j	419	ASP	C-N-CA	5.42	128.55	120.31
1	A	464	HIS	CB-CG-CD2	-5.42	124.16	131.20
1	A	706	HIS	N-CA-C	5.42	118.10	111.82
3	I	568	LEU	N-CA-C	-5.42	106.52	113.02
3	I	577	PRO	CA-C-N	5.42	129.18	120.30
3	I	577	PRO	C-N-CA	5.42	129.18	120.30
2	N	792	TYR	CB-CA-C	-5.42	101.80	110.79
2	O	62	PHE	CA-C-N	5.42	127.39	120.56
2	O	62	PHE	C-N-CA	5.42	127.39	120.56
8	d	20	GLU	CB-CG-CD	-5.42	103.39	112.60
8	l	399	ARG	NE-CZ-NH1	-5.42	116.08	121.50
9	s	46	ASN	N-CA-C	-5.42	102.95	109.83
9	t	54	ILE	CA-C-N	5.42	127.48	120.44
9	t	54	ILE	C-N-CA	5.42	127.48	120.44
1	C	658	TRP	CA-C-O	5.42	126.20	119.97
3	I	146	GLN	OE1-CD-NE2	5.42	128.01	122.60
2	N	591	LEU	CA-C-O	5.42	127.10	120.55
6	P	157	ASP	CA-CB-CG	5.42	118.02	112.60
7	X	639	GLU	N-CA-CB	5.42	117.86	110.01
8	i	29	HIS	CB-CG-CD2	-5.42	124.16	131.20
8	n	17	ILE	N-CA-C	-5.42	104.97	112.50
2	F	370	THR	CA-C-N	5.41	127.98	120.29
2	F	370	THR	C-N-CA	5.41	127.98	120.29
2	F	493	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
4	J	223	SER	CA-C-O	5.41	125.69	119.35
5	L	1526	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
8	a	308	GLY	O-C-N	-5.41	117.99	122.92
9	r	46	ASN	CA-C-O	-5.41	114.54	120.17
2	B	471	PRO	N-CD-CG	5.41	111.32	103.20
8	a	72	ARG	NH1-CZ-NH2	-5.41	112.27	119.30
8	b	122	ILE	N-CA-C	-5.41	107.09	113.42
8	c	219	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
2	B	839	ILE	O-C-N	-5.41	114.93	121.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	409	GLU	O-C-N	5.41	129.64	123.31
1	G	848	SER	N-CA-C	-5.41	99.28	110.80
2	H	642	HIS	CB-CG-ND1	-5.41	114.58	122.70
2	H	647	ILE	N-CA-C	-5.41	104.98	112.50
7	W	599	GLN	CA-C-N	5.41	127.38	120.56
7	W	599	GLN	C-N-CA	5.41	127.38	120.56
7	X	623	VAL	CA-CB-CG1	5.41	119.60	110.40
8	c	278	THR	N-CA-C	-5.41	106.05	113.30
8	i	180	HIS	CA-CB-CG	5.41	119.21	113.80
8	i	283	ALA	CB-CA-C	-5.41	102.18	109.16
8	k	29	HIS	CE1-NE2-CD2	-5.41	103.59	109.00
8	n	432	ILE	CA-C-O	-5.41	115.05	121.05
2	F	709	GLU	N-CA-C	-5.41	105.55	111.82
1	M	363	PHE	N-CA-C	5.41	117.17	111.28
7	V	661	ARG	N-CA-C	5.41	117.17	111.28
8	c	74	ILE	CA-C-O	5.41	125.48	119.42
8	c	266	LEU	N-CA-C	-5.41	99.28	110.80
8	d	357	GLN	CB-CA-C	5.41	118.67	109.80
3	K	82	HIS	CG-CD2-NE2	5.41	112.61	107.20
2	N	367	LEU	N-CA-C	5.41	117.25	111.36
2	N	717	MET	N-CA-C	-5.41	107.23	113.88
8	c	310	ASP	N-CA-C	-5.41	99.28	110.80
8	m	331	THR	O-C-N	-5.41	115.40	122.59
2	F	761	CYS	N-CA-C	5.41	119.42	111.04
1	M	230	ARG	N-CA-C	-5.41	105.80	112.72
2	N	263	LYS	CB-CA-C	-5.41	101.82	110.79
6	P	247	VAL	CB-CA-C	5.41	119.14	110.82
2	T	77	LEU	N-CA-CB	5.41	118.07	110.12
7	V	652	SER	CA-C-N	5.41	127.97	120.29
7	V	652	SER	C-N-CA	5.41	127.97	120.29
9	s	12	ARG	N-CA-C	5.41	117.25	111.36
2	H	424	PRO	N-CA-C	5.40	120.65	113.57
8	c	362	ARG	NE-CZ-NH2	-5.40	114.34	119.20
8	k	16	GLN	OE1-CD-NE2	5.40	128.00	122.60
8	l	339	ARG	NE-CZ-NH2	-5.40	114.34	119.20
2	F	843	ARG	NE-CZ-NH1	5.40	126.90	121.50
1	G	463	GLY	CA-C-O	-5.40	116.53	121.72
2	H	605	ARG	N-CA-C	-5.40	105.82	112.90
3	I	33	PHE	CA-CB-CG	5.40	119.20	113.80
3	K	116	HIS	N-CA-C	-5.40	105.39	112.41
5	L	477	LEU	N-CA-CB	5.40	118.65	110.28
2	N	785	GLN	OE1-CD-NE2	5.40	128.00	122.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	V	599	GLN	OE1-CD-NE2	5.40	128.00	122.60
7	W	663	GLU	CA-C-O	-5.40	114.82	120.55
4	J	239	SER	N-CA-CB	5.40	118.06	110.12
3	K	186	GLN	OE1-CD-NE2	5.40	128.00	122.60
8	c	325	GLN	CA-C-N	5.40	131.99	121.41
8	c	325	GLN	C-N-CA	5.40	131.99	121.41
8	j	47	ARG	NE-CZ-NH2	-5.40	114.34	119.20
2	B	623	ARG	O-C-N	-5.40	116.92	123.29
2	D	438	LEU	CA-C-O	-5.40	115.67	121.45
2	F	316	PHE	CA-CB-CG	5.40	119.20	113.80
8	c	148	GLY	N-CA-C	-5.40	105.96	112.49
8	j	372	ARG	NE-CZ-NH1	5.40	126.90	121.50
2	B	602	THR	CA-C-O	5.40	125.60	119.18
1	C	682	ARG	NE-CZ-NH2	5.40	124.06	119.20
2	H	513	GLU	CB-CG-CD	5.40	121.77	112.60
1	M	359	HIS	ND1-CE1-NE2	5.40	113.80	108.40
2	N	432	TRP	CA-C-N	5.40	129.18	120.55
2	N	432	TRP	C-N-CA	5.40	129.18	120.55
8	e	315	HIS	CE1-NE2-CD2	-5.40	103.60	109.00
8	g	132	LEU	CA-C-O	5.40	126.84	120.69
8	m	388	PHE	CB-CG-CD1	5.40	129.87	120.70
1	C	398	ILE	O-C-N	-5.39	116.85	123.00
1	E	340	ILE	CA-C-O	-5.39	115.13	120.85
5	L	1599	ALA	N-CA-C	5.39	118.08	111.82
2	T	22	GLY	O-C-N	-5.39	115.69	122.70
8	b	345	LEU	N-CA-C	-5.39	105.51	111.71
8	n	139	HIS	ND1-CE1-NE2	5.39	113.79	108.40
9	s	24	LEU	CA-C-O	-5.39	114.83	120.55
2	F	562	ARG	NE-CZ-NH2	-5.39	114.35	119.20
3	I	361	TYR	CB-CA-C	-5.39	101.23	110.24
8	g	191	THR	CA-C-O	-5.39	113.43	119.79
8	h	315	HIS	ND1-CE1-NE2	5.39	113.79	108.40
8	l	28	GLU	N-CA-CB	5.39	118.42	110.33
2	B	597	THR	CA-C-O	5.39	126.17	119.97
3	K	313	ARG	N-CA-CB	5.39	117.83	110.01
8	i	286	ARG	O-C-N	5.39	128.11	122.23
8	l	435	TYR	N-CA-C	-5.39	106.20	112.89
2	H	513	GLU	N-CA-CB	5.39	118.04	110.12
3	I	394	VAL	CA-C-N	5.39	127.94	120.29
3	I	394	VAL	C-N-CA	5.39	127.94	120.29
8	i	93	LEU	CB-CA-C	-5.39	101.77	110.77
1	A	718	ILE	CA-C-O	-5.39	113.84	118.96

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	N	844	SER	N-CA-CB	5.39	118.13	110.16
8	g	300	PRO	N-CA-CB	5.39	105.94	102.92
8	h	82	TYR	CA-CB-CG	-5.39	104.20	113.90
8	k	320	ILE	O-C-N	5.39	128.89	123.07
2	H	736	LYS	CA-C-O	5.39	124.73	118.97
3	K	350	LEU	O-C-N	-5.39	116.27	122.09
5	L	1574	GLU	N-CA-C	5.39	117.15	111.28
1	M	739	THR	CA-C-N	5.39	134.94	121.80
1	M	739	THR	C-N-CA	5.39	134.94	121.80
2	N	263	LYS	N-CA-C	5.39	117.15	111.28
8	e	62	PRO	CA-C-O	-5.39	115.31	121.56
8	i	187	ASN	CB-CG-ND2	-5.39	108.32	116.40
8	j	123	ASP	O-C-N	5.39	128.76	122.24
3	K	638	ASN	N-CA-C	-5.38	97.91	109.81
6	P	62	ARG	NE-CZ-NH1	5.38	126.88	121.50
6	P	94	LEU	CA-C-N	5.38	131.82	121.54
6	P	94	LEU	C-N-CA	5.38	131.82	121.54
2	R	89	ASN	CA-CB-CG	-5.38	107.22	112.60
8	d	436	HIS	CB-CG-CD2	-5.38	124.20	131.20
8	h	374	SER	N-CA-C	-5.38	100.25	109.24
8	k	136	VAL	N-CA-CB	5.38	118.25	111.46
8	n	10	LEU	CB-CA-C	-5.38	100.65	109.80
8	n	38	GLU	N-CA-C	-5.38	100.62	109.40
2	H	755	ASP	N-CA-C	-5.38	106.72	113.72
8	i	383	ASN	N-CA-C	-5.38	106.02	112.59
8	n	410	LYS	O-C-N	5.38	128.67	121.67
2	B	662	VAL	CA-C-N	5.38	129.78	120.58
2	B	662	VAL	C-N-CA	5.38	129.78	120.58
8	e	196	THR	CB-CA-C	-5.38	101.86	110.79
8	g	125	GLU	N-CA-C	-5.38	106.09	113.30
8	m	355	SER	N-CA-CB	5.38	119.67	110.57
9	s	16	ASP	N-CA-CB	5.38	118.03	110.12
1	G	302	TYR	CB-CG-CD2	5.38	128.87	120.80
8	e	343	ARG	NE-CZ-NH1	-5.38	116.12	121.50
8	n	367	LEU	N-CA-C	5.38	120.80	113.16
2	B	823	ALA	CB-CA-C	-5.38	100.34	110.67
1	C	241	GLN	N-CA-C	-5.38	105.85	112.90
1	E	717	ASN	O-C-N	-5.38	117.12	123.41
1	G	263	LEU	CA-C-O	-5.38	112.79	120.16
1	G	268	ASN	CA-C-N	5.38	128.49	120.31
1	G	268	ASN	C-N-CA	5.38	128.49	120.31
3	I	85	TYR	CB-CA-C	-5.38	101.11	110.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	402	LYS	CA-C-N	5.38	129.12	120.30
3	I	402	LYS	C-N-CA	5.38	129.12	120.30
8	a	106	SER	N-CA-C	-5.38	105.06	111.03
8	m	98	GLY	CA-C-N	5.38	131.95	121.41
8	m	98	GLY	C-N-CA	5.38	131.95	121.41
1	G	303	MET	O-C-N	5.38	129.63	122.43
3	I	526	ASN	CA-CB-CG	5.38	117.98	112.60
5	L	1526	HIS	CG-CD2-NE2	5.38	112.58	107.20
8	c	381	HIS	CA-CB-CG	5.38	119.18	113.80
8	l	56	ASP	CA-CB-CG	5.38	117.98	112.60
2	H	784	PHE	CB-CG-CD2	-5.38	111.56	120.70
8	d	180	HIS	CG-CD2-NE2	5.38	112.58	107.20
9	q	27	THR	N-CA-CB	5.38	119.21	110.77
9	r	13	GLU	O-C-N	5.38	127.82	122.12
1	G	512	LEU	CB-CG-CD1	5.37	126.82	110.70
5	L	384	VAL	N-CA-CB	-5.37	105.18	112.22
1	M	543	ASP	CA-C-N	5.37	127.92	120.29
1	M	543	ASP	C-N-CA	5.37	127.92	120.29
2	N	531	THR	CA-C-O	-5.37	114.80	120.55
8	k	36	ILE	O-C-N	5.37	129.08	122.95
8	m	54	GLN	N-CA-C	-5.37	101.22	109.76
8	m	139	HIS	CA-CB-CG	5.37	119.17	113.80
2	B	665	PHE	CA-CB-CG	-5.37	108.43	113.80
2	F	613	ASN	O-C-N	-5.37	115.66	120.71
8	a	357	GLN	OE1-CD-NE2	-5.37	117.23	122.60
8	e	315	HIS	ND1-CE1-NE2	5.37	113.77	108.40
2	D	743	LEU	N-CA-CB	5.37	118.57	110.30
2	F	704	HIS	ND1-CE1-NE2	5.37	113.77	108.40
4	J	704	THR	N-CA-C	-5.37	105.86	112.90
2	B	847	ARG	N-CA-CB	5.37	119.30	110.39
1	E	267	THR	CA-C-O	5.37	126.24	120.55
4	J	234	LEU	N-CA-C	-5.37	105.95	112.88
3	K	562	HIS	CB-CG-ND1	-5.37	114.65	122.70
5	L	1374	HIS	CE1-NE2-CD2	-5.37	103.63	109.00
1	M	234	VAL	CB-CA-C	-5.37	103.12	110.96
6	P	57	GLU	N-CA-C	-5.37	105.95	112.88
7	W	644	LEU	N-CA-C	-5.37	105.43	111.28
8	i	348	PHE	N-CA-C	-5.37	100.56	108.99
8	k	134	GLY	CA-C-N	5.37	131.35	122.33
8	k	134	GLY	C-N-CA	5.37	131.35	122.33
8	l	76	SER	N-CA-C	-5.37	106.58	113.02
1	A	658	TRP	CB-CG-CD2	5.37	134.31	126.80

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	328	VAL	CA-CB-CG1	5.37	119.52	110.40
2	B	528	ALA	N-CA-C	-5.37	106.58	113.23
2	F	658	HIS	CA-C-O	5.37	125.96	119.31
1	G	235	GLN	CA-C-O	-5.37	113.02	119.67
2	H	653	ARG	NE-CZ-NH1	-5.37	116.14	121.50
3	I	118	SER	N-CA-C	-5.37	99.37	110.80
3	I	410	LEU	CA-C-O	5.37	126.14	119.97
3	I	552	ASP	CA-C-N	5.37	130.74	122.42
3	I	552	ASP	C-N-CA	5.37	130.74	122.42
2	N	307	THR	N-CA-C	-5.37	105.99	112.54
2	N	448	ALA	N-CA-C	-5.37	100.66	109.40
8	d	25	LEU	N-CA-C	5.37	118.04	111.82
1	A	715	ALA	N-CA-C	-5.36	100.29	108.76
1	C	359	HIS	CG-CD2-NE2	5.36	112.56	107.20
6	P	353	GLN	CB-CG-CD	-5.36	103.48	112.60
8	f	336	SER	O-C-N	5.36	128.87	122.27
8	g	121	ILE	N-CA-C	-5.36	107.52	112.83
9	o	8	MET	CA-C-N	5.36	127.41	120.44
9	o	8	MET	C-N-CA	5.36	127.41	120.44
1	A	523	GLN	OE1-CD-NE2	5.36	127.96	122.60
1	A	718	ILE	CA-CB-CG1	5.36	119.51	110.40
2	B	377	LEU	N-CA-C	-5.36	106.24	112.89
2	B	537	TYR	CB-CG-CD2	5.36	128.84	120.80
1	C	635	THR	OG1-CB-CG2	-5.36	98.58	109.30
2	F	306	TYR	N-CA-C	-5.36	105.52	111.36
1	G	745	LYS	N-CA-C	5.36	118.04	111.82
6	P	42	GLY	N-CA-C	-5.36	100.48	113.18
8	g	332	GLN	N-CA-C	-5.36	105.01	112.30
8	k	257	ILE	CA-CB-CG2	5.36	119.61	110.50
1	A	384	ALA	CA-C-N	5.36	124.81	119.24
1	A	384	ALA	C-N-CA	5.36	124.81	119.24
2	F	370	THR	CA-CB-CG2	5.36	119.61	110.50
1	G	468	CYS	O-C-N	-5.36	116.57	120.27
3	K	330	ASP	N-CA-C	5.36	116.80	111.07
5	L	167	ALA	CA-C-O	5.36	126.13	119.97
5	L	346	VAL	N-CA-C	-5.36	99.84	107.77
6	P	250	ILE	CA-C-O	-5.36	115.07	121.28
2	S	76	GLU	CA-C-N	5.36	127.46	120.28
2	S	76	GLU	C-N-CA	5.36	127.46	120.28
8	a	200	ASP	N-CA-C	-5.36	107.11	113.97
8	b	373	VAL	N-CA-C	-5.36	102.67	109.58
8	e	390	ARG	NE-CZ-NH1	5.36	126.86	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	g	384	ILE	CA-CB-CG2	-5.36	101.39	110.50
8	j	209	ALA	CA-C-O	5.36	125.55	119.18
8	k	79	ASN	N-CA-C	-5.36	99.65	108.49
8	n	278	THR	N-CA-C	-5.36	105.04	113.02
9	s	35	SER	O-C-N	-5.36	116.44	122.12
1	C	469	PRO	O-C-N	5.36	129.65	123.01
5	L	386	ILE	CA-C-N	5.36	129.74	122.19
5	L	386	ILE	C-N-CA	5.36	129.74	122.19
1	M	674	TRP	CB-CG-CD1	5.36	134.93	126.90
2	Q	50	ASP	CA-CB-CG	5.36	117.96	112.60
8	h	99	GLY	CA-C-N	5.36	127.40	120.44
8	h	99	GLY	C-N-CA	5.36	127.40	120.44
8	k	100	ALA	CA-C-O	-5.36	115.18	120.70
2	B	402	TYR	CA-C-O	-5.35	112.81	119.18
1	C	632	LYS	CA-C-O	-5.35	113.81	119.97
2	D	624	LEU	CA-C-N	5.35	131.36	121.94
2	D	624	LEU	C-N-CA	5.35	131.36	121.94
2	F	512	ALA	N-CA-CB	5.35	117.77	110.01
5	L	211	GLU	O-C-N	5.35	127.87	122.09
8	c	158	ASN	N-CA-CB	-5.35	103.49	110.88
8	e	389	GLU	CA-C-O	5.35	126.13	119.97
8	g	19	PHE	N-CA-C	5.35	117.20	111.36
8	j	386	SER	N-CA-CB	5.35	118.08	110.16
9	r	58	ARG	NE-CZ-NH2	5.35	124.02	119.20
2	D	468	SER	N-CA-CB	5.35	119.54	110.49
2	F	586	ARG	N-CA-C	-5.35	102.92	110.31
4	J	426	VAL	N-CA-C	-5.35	107.61	112.96
5	L	250	VAL	CB-CA-C	-5.35	104.94	110.13
6	P	260	ALA	O-C-N	-5.35	115.07	122.46
8	b	375	GLY	CA-C-N	-5.35	115.56	123.05
8	b	375	GLY	C-N-CA	-5.35	115.56	123.05
8	c	380	ASN	CA-C-O	5.35	127.69	120.89
8	d	108	PHE	CA-C-O	-5.35	113.81	119.97
8	f	403	ALA	CA-C-N	5.35	129.74	122.19
8	f	403	ALA	C-N-CA	5.35	129.74	122.19
8	k	230	GLN	N-CA-C	-5.35	105.89	112.90
1	A	498	LEU	CA-C-N	5.35	127.89	120.29
1	A	498	LEU	C-N-CA	5.35	127.89	120.29
5	L	323	ASP	CA-C-O	5.35	126.22	120.55
2	D	627	VAL	CA-C-N	5.35	128.79	120.60
2	D	627	VAL	C-N-CA	5.35	128.79	120.60
1	E	517	HIS	ND1-CE1-NE2	5.35	113.75	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	613	GLU	N-CA-CB	5.35	119.09	110.85
4	J	361	MET	N-CA-C	-5.35	105.49	112.23
4	J	503	PHE	CA-C-N	5.35	129.73	122.19
4	J	503	PHE	C-N-CA	5.35	129.73	122.19
3	K	198	ASP	O-C-N	-5.35	117.49	123.48
2	Q	28	VAL	CB-CA-C	-5.35	104.57	111.20
8	f	299	GLN	OE1-CD-NE2	5.35	127.95	122.60
8	g	46	ASP	N-CA-C	-5.35	106.43	113.17
8	i	283	ALA	N-CA-CB	5.35	118.96	111.15
8	l	96	HIS	CG-CD2-NE2	5.35	112.55	107.20
9	r	32	GLU	CB-CA-C	-5.35	101.91	110.79
9	t	12	ARG	O-C-N	-5.35	116.45	122.12
2	B	613	ASN	CA-C-N	5.35	126.52	119.84
2	B	613	ASN	C-N-CA	5.35	126.52	119.84
7	W	624	ASN	CA-C-N	5.35	127.39	120.44
7	W	624	ASN	C-N-CA	5.35	127.39	120.44
8	g	388	PHE	CA-CB-CG	-5.35	108.45	113.80
2	F	342	HIS	CE1-NE2-CD2	-5.35	103.65	109.00
3	I	465	LEU	CA-C-O	5.35	125.54	119.18
3	K	444	ALA	CB-CA-C	-5.35	103.16	109.47
8	i	180	HIS	N-CA-C	-5.35	106.69	113.43
1	C	271	THR	CA-CB-OG1	5.34	117.62	109.60
1	G	676	ALA	N-CA-CB	5.34	118.56	110.28
2	H	565	LEU	CA-C-N	5.34	131.36	122.54
2	H	565	LEU	C-N-CA	5.34	131.36	122.54
2	H	577	MET	CA-C-N	5.34	127.70	120.65
2	H	577	MET	C-N-CA	5.34	127.70	120.65
2	H	873	ARG	CA-C-N	5.34	127.88	120.29
2	H	873	ARG	C-N-CA	5.34	127.88	120.29
2	Q	33	GLN	O-C-N	-5.34	116.45	122.12
2	S	99	SER	N-CA-C	-5.34	105.62	111.82
8	c	47	ARG	NE-CZ-NH1	5.34	126.84	121.50
8	c	221	GLN	N-CA-C	-5.34	106.69	114.12
8	c	240	THR	CA-CB-OG1	5.34	117.61	109.60
8	i	344	LYS	N-CA-CB	5.34	119.52	110.49
9	o	46	ASN	CA-C-N	5.34	124.86	119.19
9	o	46	ASN	C-N-CA	5.34	124.86	119.19
2	D	330	GLU	CA-C-N	5.34	127.88	120.29
2	D	330	GLU	C-N-CA	5.34	127.88	120.29
2	N	707	ALA	O-C-N	5.34	129.18	122.23
8	b	240	THR	N-CA-C	-5.34	104.19	111.56
8	h	432	ILE	O-C-N	5.34	127.46	121.90

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	j	47	ARG	NE-CZ-NH1	5.34	126.84	121.50
1	A	708	LEU	CA-C-O	-5.34	112.82	119.28
1	G	739	THR	CA-CB-OG1	5.34	117.61	109.60
2	H	328	HIS	CB-CG-CD2	-5.34	124.25	131.20
3	I	22	ARG	CA-CB-CG	5.34	124.78	114.10
8	c	287	LYS	N-CA-CB	5.34	119.52	110.49
8	e	87	ASN	N-CA-CB	5.34	117.92	110.07
8	e	281	SER	N-CA-CB	5.34	118.61	110.44
8	k	435	TYR	CA-C-N	5.34	131.74	121.54
8	k	435	TYR	C-N-CA	5.34	131.74	121.54
8	m	367	LEU	CA-C-O	-5.34	112.84	120.16
9	p	58	ARG	NE-CZ-NH2	-5.34	114.39	119.20
1	A	380	LYS	O-C-N	-5.34	115.70	122.27
2	B	884	HIS	O-C-N	5.34	129.51	122.36
2	D	310	ARG	CA-C-O	-5.34	115.21	120.82
2	D	712	HIS	CA-CB-CG	-5.34	108.46	113.80
2	F	376	ARG	NE-CZ-NH1	-5.34	116.16	121.50
2	H	847	ARG	NE-CZ-NH1	-5.34	116.16	121.50
3	K	562	HIS	CG-CD2-NE2	5.34	112.54	107.20
5	L	45	ASP	CA-C-N	5.34	127.44	120.28
5	L	45	ASP	C-N-CA	5.34	127.44	120.28
2	N	363	LEU	CA-C-N	5.34	129.76	120.68
2	N	363	LEU	C-N-CA	5.34	129.76	120.68
6	P	288	ASP	CA-C-O	5.34	125.93	119.31
8	a	242	THR	N-CA-C	-5.34	101.53	109.11
8	c	77	ILE	CB-CA-C	5.34	115.65	110.63
8	d	8	LEU	CA-C-N	5.34	129.46	121.72
8	d	8	LEU	C-N-CA	5.34	129.46	121.72
8	g	82	TYR	N-CA-C	-5.34	106.08	112.59
8	g	331	THR	CA-C-N	5.34	131.06	122.14
8	g	331	THR	C-N-CA	5.34	131.06	122.14
8	i	87	ASN	CB-CA-C	-5.34	102.01	110.02
8	l	311	ARG	NE-CZ-NH1	5.34	126.84	121.50
9	p	64	LEU	CA-C-N	5.34	127.44	120.28
9	p	64	LEU	C-N-CA	5.34	127.44	120.28
1	E	438	ILE	CA-CB-CG1	5.34	119.47	110.40
8	a	409	ARG	CA-C-N	5.34	127.69	120.38
8	a	409	ARG	C-N-CA	5.34	127.69	120.38
8	d	366	TYR	N-CA-C	-5.34	100.62	108.79
8	i	367	LEU	CA-C-N	5.34	126.51	119.84
8	i	367	LEU	C-N-CA	5.34	126.51	119.84
8	m	121	ILE	CA-C-O	5.34	125.22	119.35

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	625	LEU	N-CA-C	-5.34	106.27	112.89
1	E	663	THR	CA-CB-OG1	5.34	117.61	109.60
1	G	380	LYS	CA-C-O	-5.34	113.27	119.14
2	H	671	ARG	CA-C-N	5.34	128.42	120.31
2	H	671	ARG	C-N-CA	5.34	128.42	120.31
2	Q	37	ARG	NH1-CZ-NH2	-5.34	112.36	119.30
9	q	43	GLN	OE1-CD-NE2	5.34	127.94	122.60
2	Q	64	ARG	CA-C-O	5.33	126.13	120.10
8	e	311	ARG	NE-CZ-NH1	-5.33	116.17	121.50
9	q	10	ALA	CA-C-N	5.33	127.28	120.56
9	q	10	ALA	C-N-CA	5.33	127.28	120.56
9	r	58	ARG	O-C-N	5.33	128.23	122.15
1	E	239	GLY	CA-C-O	5.33	126.24	120.75
6	P	212	ILE	CA-CB-CG2	5.33	119.57	110.50
8	b	182	VAL	CA-C-O	5.33	124.03	118.96
8	g	134	GLY	N-CA-C	5.33	118.05	110.74
8	m	45	THR	CA-C-O	5.33	126.01	120.30
1	C	240	ARG	NE-CZ-NH2	-5.33	114.40	119.20
1	G	679	PHE	CA-CB-CG	5.33	119.13	113.80
3	I	48	LEU	N-CA-C	-5.33	106.55	113.16
3	K	35	HIS	ND1-CE1-NE2	5.33	113.73	108.40
3	K	638	ASN	CA-C-N	5.33	124.66	118.85
3	K	638	ASN	C-N-CA	5.33	124.66	118.85
8	a	292	ASP	CA-CB-CG	5.33	117.93	112.60
8	f	102	ASN	O-C-N	-5.33	115.79	122.35
8	g	60	TYR	CA-C-N	5.33	127.97	123.33
8	g	60	TYR	C-N-CA	5.33	127.97	123.33
8	h	72	ARG	CD-NE-CZ	-5.33	116.94	124.40
8	i	180	HIS	CB-CG-CD2	-5.33	124.27	131.20
9	t	16	ASP	CA-CB-CG	-5.33	107.27	112.60
2	F	415	GLN	N-CA-C	5.33	118.00	111.82
8	c	355	SER	CA-C-N	5.33	130.56	123.10
8	c	355	SER	C-N-CA	5.33	130.56	123.10
8	l	123	ASP	N-CA-C	-5.33	106.45	113.17
1	E	240	ARG	O-C-N	-5.33	116.52	122.75
3	I	284	GLN	CA-C-O	-5.33	114.33	120.24
3	K	117	LEU	CB-CA-C	5.33	118.57	109.72
3	K	494	CYS	CA-C-N	5.33	127.42	120.28
3	K	494	CYS	C-N-CA	5.33	127.42	120.28
8	g	133	GLU	CA-CB-CG	5.33	124.75	114.10
8	h	381	HIS	N-CA-C	-5.33	101.19	109.72
8	n	285	VAL	N-CA-C	-5.33	107.55	112.83

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	H	503	SER	CA-C-N	5.33	131.72	122.56
2	H	503	SER	C-N-CA	5.33	131.72	122.56
6	P	26	ALA	N-CA-C	-5.33	99.60	108.23
9	t	30	ASP	N-CA-CB	5.33	117.84	110.17
1	A	350	PHE	CA-C-N	5.33	126.80	120.14
1	A	350	PHE	C-N-CA	5.33	126.80	120.14
2	D	455	THR	N-CA-C	-5.33	100.01	109.06
2	F	441	THR	N-CA-C	-5.33	105.47	113.89
2	H	314	ARG	CA-C-N	5.33	128.79	120.75
2	H	314	ARG	C-N-CA	5.33	128.79	120.75
2	N	615	GLU	CB-CG-CD	-5.33	103.55	112.60
8	h	32	SER	CA-C-O	-5.33	114.96	120.87
8	l	418	PHE	N-CA-CB	5.33	118.13	110.20
8	m	167	GLN	OE1-CD-NE2	-5.33	117.27	122.60
8	m	338	GLN	N-CA-CB	-5.33	102.28	110.16
8	n	163	LYS	N-CA-C	-5.33	105.43	112.94
1	G	295	MET	CA-C-O	5.32	126.09	119.97
2	H	391	LYS	N-CA-C	-5.32	99.46	110.80
2	H	551	ASN	CB-CA-C	-5.32	100.71	109.65
3	I	255	LYS	N-CA-CB	5.32	119.49	110.49
3	K	574	LEU	CA-C-N	5.32	131.71	121.54
3	K	574	LEU	C-N-CA	5.32	131.71	121.54
7	V	608	GLU	CB-CA-C	5.32	119.63	110.79
8	i	336	SER	CB-CA-C	-5.32	101.80	110.85
8	j	235	ILE	O-C-N	5.32	129.02	122.05
8	l	82	TYR	N-CA-C	-5.32	102.45	110.06
9	s	48	GLU	CA-CB-CG	5.32	124.75	114.10
8	b	343	ARG	NE-CZ-NH2	-5.32	114.41	119.20
8	m	198	ASN	N-CA-C	-5.32	105.44	112.94
4	J	693	GLN	CA-C-N	5.32	127.84	120.29
4	J	693	GLN	C-N-CA	5.32	127.84	120.29
3	K	61	GLN	CA-C-O	5.32	126.09	119.97
5	L	78	ASN	CA-C-O	5.32	126.19	120.55
5	L	456	THR	O-C-N	5.32	129.31	123.25
2	N	789	ASP	N-CA-C	-5.32	106.76	113.20
7	W	650	ASN	OD1-CG-ND2	-5.32	117.28	122.60
8	k	115	HIS	CG-CD2-NE2	5.32	112.52	107.20
2	D	588	ALA	CA-C-O	5.32	126.75	120.58
2	D	742	ASP	CA-CB-CG	5.32	117.92	112.60
2	H	464	SER	N-CA-C	-5.32	101.03	108.96
2	H	566	LEU	CA-C-N	5.32	129.73	122.34
2	H	566	LEU	C-N-CA	5.32	129.73	122.34

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	a	265	ARG	CA-C-N	5.32	131.70	121.54
8	a	265	ARG	C-N-CA	5.32	131.70	121.54
8	g	381	HIS	CG-CD2-NE2	5.32	112.52	107.20
8	k	57	ASP	CA-CB-CG	5.32	117.92	112.60
8	m	213	ILE	CA-C-N	5.32	129.60	120.72
8	m	213	ILE	C-N-CA	5.32	129.60	120.72
2	D	277	ASP	N-CA-C	-5.32	104.46	111.96
2	D	632	THR	N-CA-C	-5.32	104.91	111.40
3	I	16	ILE	CA-CB-CG1	5.32	119.44	110.40
3	I	515	ARG	CA-C-N	5.32	127.67	120.44
3	I	515	ARG	C-N-CA	5.32	127.67	120.44
8	f	180	HIS	O-C-N	-5.32	115.10	121.64
8	n	80	SER	N-CA-C	-5.32	100.89	109.82
9	t	19	LEU	CA-C-N	5.32	127.35	120.44
9	t	19	LEU	C-N-CA	5.32	127.35	120.44
2	B	277	ASP	CA-CB-CG	5.32	117.92	112.60
1	G	411	HIS	N-CA-CB	5.32	119.54	110.50
5	L	1395	HIS	N-CA-C	5.32	117.99	111.82
6	P	154	ASP	CA-C-O	5.32	126.95	120.62
8	i	249	MET	CG-SD-CE	5.32	112.60	100.90
8	k	334	HIS	CE1-NE2-CD2	-5.32	103.69	109.00
8	m	234	THR	CB-CA-C	5.32	119.89	110.85
4	J	942	VAL	N-CA-C	-5.31	102.66	109.30
5	L	208	PHE	CA-C-N	5.31	127.35	120.44
5	L	208	PHE	C-N-CA	5.31	127.35	120.44
2	N	372	ASP	CA-CB-CG	5.31	117.91	112.60
2	F	315	ALA	CB-CA-C	-5.31	101.15	109.70
2	H	261	ASP	CA-C-O	5.31	126.74	120.58
3	K	310	GLU	CA-C-O	5.31	126.18	120.55
8	b	85	LEU	N-CA-C	-5.31	105.50	112.41
8	i	87	ASN	CA-C-N	5.31	126.48	119.84
8	i	87	ASN	C-N-CA	5.31	126.48	119.84
8	j	258	ALA	CA-C-O	-5.31	113.86	119.97
8	k	359	ALA	CA-C-O	-5.31	115.40	121.40
1	G	647	CYS	N-CA-C	-5.31	106.30	112.89
1	M	517	HIS	CB-CG-CD2	-5.31	124.30	131.20
7	W	641	GLN	CB-CG-CD	5.31	121.63	112.60
8	i	383	ASN	CA-C-N	5.31	129.85	121.09
8	i	383	ASN	C-N-CA	5.31	129.85	121.09
8	j	167	GLN	OE1-CD-NE2	5.31	127.91	122.60
1	A	523	GLN	CG-CD-NE2	-5.31	108.44	116.40
3	K	55	PHE	N-CA-CB	5.31	118.10	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
7	X	618	CYS	CA-C-O	5.31	126.18	120.55
8	a	329	ASP	CA-CB-CG	-5.31	107.29	112.60
8	f	302	ASN	CA-CB-CG	5.31	117.91	112.60
1	C	252	ASP	CA-CB-CG	5.31	117.91	112.60
1	E	550	LEU	CA-C-O	-5.31	114.80	120.42
3	K	634	ASN	CA-CB-CG	-5.31	107.29	112.60
8	e	169	TYR	CA-CB-CG	-5.31	104.35	113.90
8	k	405	LEU	N-CA-C	-5.31	106.85	113.38
3	I	168	VAL	CA-CB-CG1	5.31	119.42	110.40
2	R	27	ASP	CA-CB-CG	-5.31	107.29	112.60
2	B	458	LEU	CA-C-O	5.30	124.96	119.97
2	B	716	GLN	OE1-CD-NE2	5.30	127.91	122.60
1	C	377	TYR	CA-C-N	5.30	127.82	120.29
1	C	377	TYR	C-N-CA	5.30	127.82	120.29
1	E	574	ILE	CA-C-O	-5.30	114.86	120.53
2	H	523	THR	CA-C-N	5.30	129.21	121.31
2	H	523	THR	C-N-CA	5.30	129.21	121.31
3	K	120	SER	N-CA-CB	5.30	118.47	110.30
2	N	312	LEU	N-CA-CB	5.30	119.45	110.49
2	N	811	GLU	N-CA-CB	5.30	118.47	110.30
8	d	234	THR	N-CA-CB	5.30	118.10	110.20
8	d	434	GLU	O-C-N	-5.30	115.14	122.46
8	n	13	CYS	CA-C-N	5.30	126.96	120.22
8	n	13	CYS	C-N-CA	5.30	126.96	120.22
2	F	526	GLU	N-CA-CB	5.30	119.49	111.06
4	J	767	ASP	N-CA-CB	5.30	119.45	110.49
1	M	428	ASP	CA-C-O	-5.30	115.76	121.38
8	i	81	PRO	CA-C-N	5.30	131.43	122.79
8	i	81	PRO	C-N-CA	5.30	131.43	122.79
8	l	212	ARG	N-CA-CB	5.30	118.50	110.28
2	B	694	PRO	N-CA-C	-5.30	106.62	113.57
1	C	520	LEU	CA-C-O	-5.30	111.80	118.43
2	F	387	CYS	O-C-N	-5.30	117.04	123.03
2	H	564	TYR	CA-C-N	5.30	128.37	120.31
2	H	564	TYR	C-N-CA	5.30	128.37	120.31
4	J	460	LEU	N-CA-C	-5.30	106.32	112.89
5	L	1537	SER	CA-C-N	5.30	128.24	120.71
5	L	1537	SER	C-N-CA	5.30	128.24	120.71
8	c	432	ILE	O-C-N	5.30	127.29	121.83
8	f	156	ARG	NE-CZ-NH2	-5.30	114.43	119.20
8	f	162	PRO	O-C-N	5.30	129.63	122.37
8	h	192	LEU	CA-C-N	5.30	127.82	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	h	192	LEU	C-N-CA	5.30	127.82	120.29
9	t	63	THR	CA-CB-OG1	5.30	117.55	109.60
1	A	301	GLU	CA-C-N	5.30	127.82	120.29
1	A	301	GLU	C-N-CA	5.30	127.82	120.29
2	B	251	ARG	NE-CZ-NH2	-5.30	114.43	119.20
2	B	708	SER	N-CA-C	-5.30	106.08	112.54
2	D	753	PHE	CA-CB-CG	5.30	119.10	113.80
2	H	852	PHE	N-CA-C	-5.30	105.58	111.36
4	J	473	ASP	CA-C-O	-5.30	114.80	120.42
5	L	1369	ALA	CA-C-N	5.30	124.93	119.05
5	L	1369	ALA	C-N-CA	5.30	124.93	119.05
8	c	208	THR	CA-C-N	5.30	131.92	122.06
8	c	208	THR	C-N-CA	5.30	131.92	122.06
8	f	133	GLU	CA-CB-CG	-5.30	103.50	114.10
8	g	289	THR	N-CA-CB	5.30	117.75	109.85
8	h	414	PHE	CB-CG-CD2	5.30	129.71	120.70
8	h	422	ASP	CA-CB-CG	5.30	117.90	112.60
8	a	194	ARG	NE-CZ-NH2	-5.30	114.43	119.20
8	k	413	ILE	O-C-N	5.30	128.79	123.07
8	l	46	ASP	N-CA-C	-5.30	106.68	112.72
2	D	610	GLN	CA-CB-CG	5.30	124.69	114.10
2	H	516	LYS	CA-C-N	5.30	127.38	120.28
2	H	516	LYS	C-N-CA	5.30	127.38	120.28
4	J	422	ASP	CA-C-N	5.30	131.66	121.54
4	J	422	ASP	C-N-CA	5.30	131.66	121.54
2	Q	27	ASP	N-CA-CB	5.30	118.61	110.61
8	a	109	SER	N-CA-C	-5.30	106.66	113.23
8	b	202	VAL	CA-CB-CG1	5.30	119.40	110.40
8	e	350	PRO	O-C-N	-5.30	115.49	122.64
8	e	407	GLN	N-CA-C	-5.30	106.50	113.17
8	g	117	ASP	CA-CB-CG	5.30	117.90	112.60
8	i	333	VAL	CA-C-O	-5.30	114.53	120.25
8	l	283	ALA	N-CA-C	-5.30	104.46	112.99
5	L	571	HIS	CE1-NE2-CD2	-5.29	103.70	109.00
8	b	59	HIS	ND1-CE1-NE2	5.29	113.69	108.40
8	j	32	SER	CB-CA-C	5.29	117.05	109.11
8	n	245	TYR	CB-CA-C	-5.29	99.74	110.17
2	H	850	THR	N-CA-CB	5.29	119.03	110.40
5	L	222	HIS	N-CA-CB	5.29	119.43	110.49
5	L	1598	LYS	CA-C-N	5.29	128.35	120.31
5	L	1598	LYS	C-N-CA	5.29	128.35	120.31
8	b	225	PHE	CA-C-O	5.29	125.02	119.51

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	222	TYR	CB-CG-CD1	5.29	128.74	120.80
3	I	391	ASP	CA-CB-CG	5.29	117.89	112.60
3	I	541	SER	O-C-N	5.29	128.18	122.15
3	K	95	SER	CA-C-N	5.29	129.01	121.02
3	K	95	SER	C-N-CA	5.29	129.01	121.02
1	M	843	SER	CB-CA-C	-5.29	99.59	110.38
8	a	296	ARG	NE-CZ-NH1	5.29	126.79	121.50
8	d	84	ASN	CB-CG-OD1	5.29	131.38	120.80
8	f	80	SER	CA-C-N	5.29	126.45	119.84
8	f	80	SER	C-N-CA	5.29	126.45	119.84
8	j	21	PHE	O-C-N	-5.29	116.12	122.15
8	k	261	ILE	N-CA-C	-5.29	101.70	107.73
2	D	292	LYS	N-CA-C	-5.29	105.56	112.23
7	U	669	ALA	CB-CA-C	-5.29	101.62	110.56
8	j	39	GLU	CB-CG-CD	5.29	121.59	112.60
8	l	72	ARG	NE-CZ-NH2	-5.29	114.44	119.20
1	C	372	GLN	CB-CG-CD	5.29	121.59	112.60
2	R	82	GLN	CA-C-N	5.29	127.80	120.29
2	R	82	GLN	C-N-CA	5.29	127.80	120.29
8	b	141	ILE	CA-C-O	5.29	125.89	119.54
8	c	294	MET	N-CA-C	-5.29	104.48	112.99
8	l	380	ASN	OD1-CG-ND2	5.29	127.89	122.60
2	F	542	LYS	N-CA-CB	5.29	118.26	110.33
8	j	406	GLU	O-C-N	-5.29	115.56	122.59
8	k	92	TYR	CB-CG-CD2	5.29	128.73	120.80
1	E	324	TRP	CB-CG-CD1	-5.29	118.97	126.90
4	J	405	LEU	N-CA-CB	5.29	118.76	110.46
2	N	611	PHE	CB-CA-C	5.29	118.91	109.29
8	c	82	TYR	N-CA-CB	5.29	117.85	110.56
8	g	431	LEU	N-CA-C	5.29	119.44	112.89
1	A	551	GLU	CB-CG-CD	-5.28	103.62	112.60
2	B	686	ASN	N-CA-CB	5.28	119.16	110.39
1	E	217	VAL	CB-CA-C	-5.28	105.16	112.24
2	F	564	TYR	O-C-N	-5.28	116.47	122.23
4	J	324	GLN	OE1-CD-NE2	5.28	127.88	122.60
1	M	503	MET	N-CA-C	5.28	117.95	111.82
8	a	79	ASN	CA-CB-CG	-5.28	107.32	112.60
8	a	287	LYS	CA-CB-CG	5.28	124.67	114.10
8	d	201	CYS	CA-C-O	-5.28	114.93	121.11
9	s	45	ILE	CA-C-O	5.28	126.63	121.19
1	A	387	PHE	CA-C-N	5.28	127.79	120.29
1	A	387	PHE	C-N-CA	5.28	127.79	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	515	ILE	N-CA-C	-5.28	105.23	110.62
2	F	329	GLN	N-CA-CB	5.28	119.16	110.39
8	h	341	ARG	N-CA-C	-5.28	106.10	112.54
8	l	380	ASN	CB-CG-ND2	-5.28	108.48	116.40
2	N	670	LYS	CB-CG-CD	5.28	123.45	111.30
2	N	759	SER	N-CA-C	-5.28	105.19	111.69
8	l	381	HIS	ND1-CE1-NE2	5.28	113.68	108.40
8	n	299	GLN	CA-C-O	-5.28	115.41	119.32
2	B	662	VAL	CA-C-O	-5.28	113.30	119.85
2	B	457	ARG	NE-CZ-NH1	5.28	126.78	121.50
2	B	627	VAL	CA-C-O	5.28	127.64	120.99
1	C	319	SER	N-CA-C	-5.28	101.69	109.18
1	M	358	LEU	CD1-CG-CD2	5.28	122.41	110.80
1	M	756	MET	CG-SD-CE	-5.28	89.29	100.90
7	U	619	HIS	ND1-CE1-NE2	5.28	113.68	108.40
8	k	102	ASN	CA-C-O	5.28	127.83	121.65
8	k	289	THR	CA-C-O	5.28	127.14	121.55
8	m	372	ARG	NE-CZ-NH2	-5.28	114.45	119.20
9	s	54	ILE	N-CA-CB	5.28	116.73	110.55
2	B	822	ALA	O-C-N	-5.28	115.78	122.27
2	B	826	ASP	CA-CB-CG	5.28	117.88	112.60
2	H	543	TYR	CB-CA-C	-5.28	101.88	110.85
3	I	514	TRP	CA-C-O	5.28	125.37	119.41
3	I	641	LEU	O-C-N	5.28	127.71	122.12
8	a	26	CYS	O-C-N	5.28	128.76	122.27
8	c	82	TYR	CA-C-N	5.28	128.33	120.31
8	c	82	TYR	C-N-CA	5.28	128.33	120.31
8	e	225	PHE	CA-CB-CG	-5.28	108.52	113.80
2	F	738	LEU	N-CA-C	-5.27	104.58	112.54
3	K	513	LYS	N-CA-CB	5.27	118.34	110.22
5	L	515	ASN	N-CA-C	-5.27	106.16	112.59
8	b	358	VAL	CA-C-O	5.27	126.84	120.67
1	E	726	THR	CA-CB-OG1	5.27	117.51	109.60
2	F	750	HIS	CE1-NE2-CD2	-5.27	103.73	109.00
1	G	391	GLU	CA-C-O	-5.27	113.91	119.97
1	M	613	GLU	N-CA-C	-5.27	99.85	108.76
2	Q	102	GLU	CA-C-O	5.27	127.28	121.11
8	a	316	CYS	N-CA-CB	5.27	119.67	110.81
9	r	18	LEU	CA-C-N	5.27	127.35	120.28
9	r	18	LEU	C-N-CA	5.27	127.35	120.28
1	A	466	VAL	CA-C-O	-5.27	114.69	119.91
3	K	292	ASN	N-CA-C	-5.27	106.53	113.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	612	ASP	CA-CB-CG	-5.27	107.33	112.60
8	h	106	SER	CA-C-O	5.27	126.33	120.90
1	A	307	SER	N-CA-C	-5.27	105.59	112.23
1	E	491	TYR	CA-C-N	5.27	127.77	120.29
1	E	491	TYR	C-N-CA	5.27	127.77	120.29
3	I	43	ASN	N-CA-C	5.27	117.93	111.82
3	K	458	VAL	N-CA-C	-5.27	100.27	107.75
6	P	43	VAL	CB-CA-C	5.27	117.44	110.91
6	P	253	GLU	CA-C-N	5.27	127.29	120.44
6	P	253	GLU	C-N-CA	5.27	127.29	120.44
6	P	348	SER	O-C-N	-5.27	115.39	122.19
8	b	70	GLU	CA-C-O	-5.27	115.34	119.66
8	j	238	ALA	CA-C-O	-5.27	113.91	119.97
1	A	270	SER	CA-C-N	5.27	129.50	120.71
1	A	270	SER	C-N-CA	5.27	129.50	120.71
1	E	353	ALA	O-C-N	-5.27	115.79	122.27
2	H	567	LEU	CA-C-N	5.27	125.83	119.98
2	H	567	LEU	C-N-CA	5.27	125.83	119.98
7	U	633	PHE	CA-C-N	5.27	127.29	120.44
7	U	633	PHE	C-N-CA	5.27	127.29	120.44
8	a	103	ASN	CA-C-O	-5.27	114.95	121.06
8	c	386	SER	CA-C-N	5.27	127.77	120.29
8	c	386	SER	C-N-CA	5.27	127.77	120.29
8	d	59	HIS	CG-CD2-NE2	5.27	112.47	107.20
9	s	24	LEU	O-C-N	5.27	127.70	122.12
2	B	408	PRO	CA-C-N	5.27	127.65	120.54
2	B	408	PRO	C-N-CA	5.27	127.65	120.54
4	J	939	ARG	NH1-CZ-NH2	-5.27	112.45	119.30
3	K	533	VAL	CA-CB-CG1	5.27	119.35	110.40
3	K	633	ARG	NE-CZ-NH2	-5.27	114.46	119.20
2	N	267	MET	N-CA-CB	5.27	119.49	111.70
8	a	380	ASN	OD1-CG-ND2	5.27	127.87	122.60
1	A	431	TYR	CB-CG-CD2	5.26	128.70	120.80
2	B	390	ARG	N-CA-CB	5.26	118.38	110.53
2	B	425	ILE	N-CA-CB	5.26	117.31	110.57
2	D	658	HIS	ND1-CE1-NE2	5.26	113.66	108.40
1	G	220	LEU	CA-C-O	-5.26	113.92	119.97
1	G	271	THR	N-CA-C	-5.26	105.60	112.23
1	G	570	ASP	N-CA-C	-5.26	106.91	113.38
1	G	739	THR	CA-C-N	5.26	128.65	120.60
1	G	739	THR	C-N-CA	5.26	128.65	120.60
2	H	386	HIS	ND1-CE1-NE2	5.26	113.66	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	635	HIS	CE1-NE2-CD2	-5.26	103.74	109.00
5	L	470	GLN	OE1-CD-NE2	-5.26	117.34	122.60
2	T	43	PHE	CA-CB-CG	-5.26	108.54	113.80
8	g	139	HIS	N-CA-CB	5.26	119.60	110.07
8	j	393	ARG	N-CA-CB	5.26	118.44	110.28
8	l	77	ILE	CB-CA-C	5.26	115.81	110.65
9	q	13	GLU	CB-CA-C	-5.26	102.05	110.79
2	F	775	ARG	NE-CZ-NH1	5.26	126.76	121.50
8	b	303	VAL	CA-C-O	-5.26	115.57	121.36
8	e	87	ASN	CA-CB-CG	5.26	117.86	112.60
8	h	324	ILE	CA-C-O	-5.26	114.73	120.84
9	o	33	THR	CB-CA-C	-5.26	102.05	110.79
1	E	322	LYS	N-CA-C	5.26	117.02	111.28
4	J	420	PRO	N-CA-C	5.26	117.12	110.70
1	M	291	LEU	CA-C-O	5.26	126.18	120.55
1	M	534	THR	CA-C-N	5.26	127.76	120.29
1	M	534	THR	C-N-CA	5.26	127.76	120.29
2	O	17	CYS	N-CA-C	-5.26	105.55	111.28
8	a	303	VAL	N-CA-C	5.26	116.81	109.55
8	f	345	LEU	CB-CA-C	-5.26	101.00	110.37
8	g	52	PHE	CA-C-N	5.26	128.81	121.02
8	g	52	PHE	C-N-CA	5.26	128.81	121.02
2	B	399	VAL	CA-C-N	5.26	130.34	121.14
2	B	399	VAL	C-N-CA	5.26	130.34	121.14
1	E	612	LEU	N-CA-C	-5.26	107.24	113.97
2	F	708	SER	N-CA-CB	5.26	118.43	110.28
1	G	535	GLU	CB-CG-CD	-5.26	103.66	112.60
3	K	331	ARG	NE-CZ-NH2	5.26	123.93	119.20
1	M	430	ARG	CA-C-N	5.26	127.33	120.28
1	M	430	ARG	C-N-CA	5.26	127.33	120.28
2	N	776	ALA	O-C-N	-5.26	115.20	122.46
6	P	207	GLU	CA-C-O	-5.26	113.92	119.97
8	d	188	SER	O-C-N	5.26	127.77	122.09
8	l	378	MET	N-CA-C	-5.26	95.44	107.48
8	m	272	GLY	N-CA-C	-5.26	102.85	110.90
9	r	47	PRO	O-C-N	5.26	129.45	122.30
2	D	305	LYS	CA-C-O	5.26	126.02	119.97
2	F	299	LEU	CA-C-N	5.26	129.57	120.58
2	F	299	LEU	C-N-CA	5.26	129.57	120.58
4	J	265	GLN	N-CA-C	-5.26	107.53	114.31
7	U	602	PHE	CA-C-N	5.26	127.19	120.56
7	U	602	PHE	C-N-CA	5.26	127.19	120.56

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	c	338	GLN	CG-CD-NE2	5.26	124.29	116.40
2	D	837	GLU	CB-CG-CD	-5.26	103.66	112.60
2	D	842	MET	CA-C-O	-5.26	113.59	119.79
1	G	441	PHE	N-CA-C	-5.26	101.13	109.59
3	I	35	HIS	CG-CD2-NE2	5.26	112.46	107.20
2	O	95	TYR	CA-C-O	-5.26	114.98	120.55
2	R	87	LEU	N-CA-C	-5.26	100.67	109.24
7	W	632	GLN	OE1-CD-NE2	-5.26	117.34	122.60
8	c	85	LEU	N-CA-C	-5.26	105.63	111.36
8	g	205	LEU	CA-C-O	-5.26	115.14	120.71
2	D	257	PHE	CA-C-O	5.25	125.99	120.42
1	E	525	ASP	CA-CB-CG	5.25	117.86	112.60
8	g	283	ALA	CA-C-O	5.25	125.68	119.48
8	h	197	GLN	CB-CG-CD	-5.25	103.67	112.60
1	E	617	PHE	N-CA-CB	5.25	118.98	110.42
2	F	680	TRP	CB-CG-CD2	-5.25	119.45	126.80
3	K	267	TYR	CB-CG-CD1	5.25	128.68	120.80
5	L	1514	LYS	CG-CD-CE	5.25	123.39	111.30
2	O	46	THR	CA-C-O	5.25	124.83	119.05
6	P	59	GLN	N-CA-CB	5.25	118.36	110.53
7	X	614	PHE	CA-C-N	5.25	127.32	120.28
7	X	614	PHE	C-N-CA	5.25	127.32	120.28
8	e	175	GLN	OE1-CD-NE2	5.25	127.85	122.60
8	i	340	ILE	CA-CB-CG1	5.25	119.33	110.40
8	l	182	VAL	N-CA-C	5.25	118.03	112.83
8	n	289	THR	N-CA-C	-5.25	101.13	109.59
2	D	884	HIS	O-C-N	-5.25	114.90	122.36
2	F	501	PRO	CA-C-N	5.25	131.57	121.54
2	F	501	PRO	C-N-CA	5.25	131.57	121.54
1	G	399	ILE	N-CA-C	-5.25	98.93	107.28
3	I	121	HIS	ND1-CE1-NE2	5.25	113.65	108.40
3	I	304	GLU	CB-CG-CD	5.25	121.53	112.60
5	L	1538	ASN	N-CA-CB	5.25	117.76	109.83
1	M	454	LYS	CA-C-N	5.25	127.32	120.28
1	M	454	LYS	C-N-CA	5.25	127.32	120.28
8	a	377	MET	N-CA-C	-5.25	101.14	109.59
8	b	234	THR	CA-CB-OG1	5.25	117.48	109.60
8	e	389	GLU	O-C-N	-5.25	115.81	122.27
8	i	176	ASP	CA-CB-CG	5.25	117.85	112.60
8	j	19	PHE	CB-CG-CD2	-5.25	111.77	120.70
8	k	142	ALA	N-CA-CB	5.25	117.99	110.06
1	A	835	LEU	N-CA-CB	5.25	118.42	110.28

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
9	p	52	SER	N-CA-C	5.25	116.69	111.07
1	A	246	SER	CA-C-N	5.25	128.63	120.34
1	A	246	SER	C-N-CA	5.25	128.63	120.34
1	A	409	GLU	N-CA-C	-5.25	98.46	107.23
1	A	656	ASN	CA-C-N	5.25	127.87	120.42
1	A	656	ASN	C-N-CA	5.25	127.87	120.42
1	A	658	TRP	CB-CG-CD1	-5.25	119.03	126.90
2	D	297	GLY	CA-C-O	5.25	125.71	120.09
2	H	427	ASN	CA-CB-CG	5.25	117.85	112.60
2	H	538	PHE	CA-C-O	-5.25	113.93	119.97
3	I	570	GLN	N-CA-C	5.25	117.91	111.82
5	L	13	GLU	CA-C-N	5.25	127.74	120.29
5	L	13	GLU	C-N-CA	5.25	127.74	120.29
5	L	235	PRO	CA-C-O	-5.25	112.95	120.56
5	L	1427	THR	CA-CB-CG2	-5.25	101.58	110.50
8	c	217	ARG	NE-CZ-NH2	-5.25	114.47	119.20
8	i	295	ARG	NE-CZ-NH1	-5.25	116.25	121.50
8	n	424	SER	CA-CB-OG	5.25	121.60	111.10
2	B	290	THR	CA-CB-OG1	5.25	117.47	109.60
2	D	255	TYR	N-CA-C	-5.25	105.73	111.82
1	G	227	VAL	CA-CB-CG1	5.25	119.32	110.40
3	K	650	TYR	CA-C-O	-5.25	112.81	119.31
5	L	82	CYS	CA-C-N	5.25	130.26	120.87
5	L	82	CYS	C-N-CA	5.25	130.26	120.87
2	N	666	LEU	CA-C-N	5.25	127.74	120.29
2	N	666	LEU	C-N-CA	5.25	127.74	120.29
8	g	309	ARG	NE-CZ-NH1	5.25	126.75	121.50
8	j	166	VAL	N-CA-C	-5.25	100.76	108.11
8	j	261	ILE	CA-C-O	-5.25	116.26	119.51
8	m	371	HIS	CA-CB-CG	-5.25	108.55	113.80
1	G	552	ALA	CA-C-N	5.25	130.32	121.14
1	G	552	ALA	C-N-CA	5.25	130.32	121.14
5	L	1516	MET	O-C-N	5.25	127.47	122.07
2	N	590	THR	CA-CB-CG2	5.25	119.42	110.50
8	g	259	SER	N-CA-C	-5.25	106.93	113.38
8	j	106	SER	CA-C-N	5.25	126.88	120.22
8	j	106	SER	C-N-CA	5.25	126.88	120.22
1	A	227	VAL	N-CA-C	-5.24	102.42	108.82
3	I	533	VAL	O-C-N	5.24	127.23	121.83
2	R	79	ARG	CB-CG-CD	5.24	123.36	111.30
2	S	57	LYS	CB-CA-C	-5.24	102.08	110.79
8	b	393	ARG	NE-CZ-NH2	-5.24	114.48	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	e	75	HIS	CE1-NE2-CD2	-5.24	103.76	109.00
8	f	74	ILE	CA-CB-CG2	-5.24	101.59	110.50
8	i	125	GLU	N-CA-C	-5.24	106.27	113.30
7	U	662	GLU	O-C-N	-5.24	116.17	122.15
8	b	191	THR	N-CA-CB	5.24	118.37	110.30
8	f	201	CYS	N-CA-C	-5.24	101.10	109.23
8	j	136	VAL	CB-CA-C	5.24	118.61	110.96
9	s	39	ARG	CA-C-N	5.24	127.25	120.44
9	s	39	ARG	C-N-CA	5.24	127.25	120.44
1	A	547	PRO	O-C-N	5.24	129.43	122.30
1	C	469	PRO	N-CA-CB	5.24	107.91	103.35
5	L	1492	ASN	CA-C-O	5.24	128.00	120.51
8	h	260	LEU	N-CA-C	-5.24	105.55	112.94
8	k	79	ASN	CA-CB-CG	-5.24	107.36	112.60
3	I	502	LYS	CB-CG-CD	5.24	123.35	111.30
5	L	452	PRO	CA-C-N	5.24	131.13	121.70
5	L	452	PRO	C-N-CA	5.24	131.13	121.70
8	b	377	MET	N-CA-C	-5.24	100.64	109.07
8	i	219	HIS	CG-CD2-NE2	5.24	112.44	107.20
8	j	198	ASN	CA-C-O	-5.24	113.30	119.48
8	k	203	VAL	O-C-N	5.24	128.59	122.99
8	l	305	VAL	CA-C-O	5.24	125.91	120.36
1	C	324	TRP	CA-C-O	5.24	125.62	119.28
2	D	420	LEU	CA-C-N	5.24	127.64	120.46
2	D	420	LEU	C-N-CA	5.24	127.64	120.46
2	F	683	HIS	CA-CB-CG	5.24	119.04	113.80
8	a	40	PHE	CA-C-N	5.24	129.58	120.68
8	a	40	PHE	C-N-CA	5.24	129.58	120.68
8	g	194	ARG	NE-CZ-NH1	5.24	126.74	121.50
2	F	635	ASP	CA-C-N	5.24	127.26	120.56
2	F	635	ASP	C-N-CA	5.24	127.26	120.56
3	K	612	ASP	CA-C-N	5.24	127.86	120.42
3	K	612	ASP	C-N-CA	5.24	127.86	120.42
5	L	8	PHE	CA-C-N	5.24	125.76	120.00
5	L	8	PHE	C-N-CA	5.24	125.76	120.00
5	L	1652	MET	CB-CA-C	-5.24	102.90	110.96
1	M	649	HIS	O-C-N	5.24	128.34	122.22
7	U	648	SER	N-CA-CB	5.24	118.36	110.30
7	V	665	LYS	CA-C-O	-5.24	114.87	120.42
8	b	59	HIS	N-CA-C	-5.24	101.33	109.24
8	d	389	GLU	O-C-N	-5.24	115.31	122.33
9	q	55	LYS	CA-CB-CG	5.24	124.57	114.10

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	d	184	GLN	OE1-CD-NE2	5.23	127.83	122.60
8	k	277	THR	CA-C-N	5.23	131.03	122.65
8	k	277	THR	C-N-CA	5.23	131.03	122.65
1	A	834	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
2	B	370	THR	CA-CB-OG1	5.23	117.45	109.60
5	L	350	GLU	N-CA-CB	5.23	118.39	110.28
1	M	280	SER	CA-C-N	5.23	131.78	121.58
1	M	280	SER	C-N-CA	5.23	131.78	121.58
1	M	309	LEU	CA-C-N	5.23	128.26	120.31
1	M	309	LEU	C-N-CA	5.23	128.26	120.31
8	d	334	HIS	O-C-N	-5.23	115.42	122.43
8	e	103	ASN	CA-C-N	5.23	127.72	120.29
8	e	103	ASN	C-N-CA	5.23	127.72	120.29
8	f	371	HIS	CE1-NE2-CD2	-5.23	103.77	109.00
8	n	332	GLN	CB-CG-CD	-5.23	103.71	112.60
2	B	630	GLY	N-CA-C	-5.23	108.17	114.66
2	D	372	ASP	CA-CB-CG	5.23	117.83	112.60
3	I	507	ASN	N-CA-CB	5.23	117.70	110.17
3	I	543	LEU	CA-C-N	5.23	128.26	120.31
3	I	543	LEU	C-N-CA	5.23	128.26	120.31
3	K	584	GLU	CA-C-N	5.23	127.26	120.56
3	K	584	GLU	C-N-CA	5.23	127.26	120.56
1	M	656	ASN	CA-CB-CG	-5.23	107.37	112.60
2	N	726	LEU	N-CA-CB	5.23	118.27	110.22
2	S	25	GLU	N-CA-CB	5.23	118.59	110.80
8	h	283	ALA	CA-C-O	5.23	125.65	119.48
8	l	176	ASP	N-CA-C	-5.23	106.49	112.92
3	K	147	LYS	N-CA-CB	5.23	119.33	110.49
5	L	424	HIS	ND1-CE1-NE2	5.23	113.63	108.40
8	j	401	ARG	CA-C-N	5.23	130.16	122.63
8	j	401	ARG	C-N-CA	5.23	130.16	122.63
8	l	223	PRO	O-C-N	5.23	126.44	122.73
2	D	578	ASP	CA-CB-CG	5.23	117.83	112.60
2	D	735	ASN	CB-CA-C	5.23	119.85	110.81
1	G	691	ASN	CA-C-O	-5.23	115.51	121.00
2	H	459	TRP	N-CA-CB	5.23	119.33	110.49
3	I	260	ARG	N-CA-C	-5.23	99.89	108.41
4	J	936	CYS	CA-C-N	5.23	130.79	122.74
4	J	936	CYS	C-N-CA	5.23	130.79	122.74
8	f	103	ASN	CA-C-O	-5.23	115.55	121.72
8	f	187	ASN	CA-CB-CG	5.23	117.83	112.60
8	m	2	PRO	CA-N-CD	-5.23	104.68	112.00

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	n	345	LEU	O-C-N	-5.23	114.80	122.43
1	C	223	ILE	CB-CA-C	5.23	119.43	112.22
1	E	333	THR	N-CA-C	5.23	116.98	111.28
4	J	744	LYS	CA-C-O	-5.23	115.78	121.84
2	Q	69	ALA	N-CA-C	5.23	117.72	111.71
7	W	655	SER	CA-C-O	-5.23	115.01	120.55
8	m	181	VAL	CA-C-O	-5.23	115.81	121.19
1	C	248	GLU	CA-C-O	-5.22	115.81	121.87
4	J	238	LEU	N-CA-C	5.22	116.97	111.28
3	K	10	SER	CA-C-N	5.22	130.00	122.63
3	K	10	SER	C-N-CA	5.22	130.00	122.63
3	K	635	HIS	ND1-CE1-NE2	5.22	113.62	108.40
5	L	78	ASN	CA-C-N	5.22	127.54	120.44
5	L	78	ASN	C-N-CA	5.22	127.54	120.44
1	M	251	LEU	CA-C-O	5.22	125.12	118.54
6	P	288	ASP	O-C-N	-5.22	115.25	122.46
8	a	47	ARG	N-CA-CB	5.22	119.32	110.49
8	a	426	GLU	CA-C-N	5.22	127.84	120.42
8	a	426	GLU	C-N-CA	5.22	127.84	120.42
8	e	369	SER	N-CA-C	-5.22	99.67	110.80
8	g	325	GLN	N-CA-C	-5.22	101.25	109.50
8	n	212	ARG	CA-CB-CG	5.22	124.55	114.10
8	n	265	ARG	CA-C-N	5.22	131.52	121.54
8	n	265	ARG	C-N-CA	5.22	131.52	121.54
2	B	546	ASP	CA-CB-CG	5.22	117.82	112.60
2	F	554	LEU	CA-C-O	-5.22	114.88	120.42
4	J	697	CYS	N-CA-C	-5.22	105.03	111.40
3	K	493	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
5	L	1407	ASP	N-CA-CB	5.22	118.17	110.49
1	M	518	TYR	N-CA-C	-5.22	104.88	113.50
2	N	744	ASP	CA-CB-CG	5.22	117.82	112.60
8	e	113	LYS	N-CA-C	-5.22	108.17	114.75
8	h	275	PRO	CA-C-N	5.22	131.51	121.54
8	h	275	PRO	C-N-CA	5.22	131.51	121.54
8	h	436	HIS	CE1-NE2-CD2	-5.22	103.78	109.00
1	G	218	GLU	N-CA-C	5.22	117.05	111.36
8	c	19	PHE	CA-CB-CG	-5.22	108.58	113.80
8	c	436	HIS	N-CA-CB	5.22	119.14	110.63
8	j	27	ALA	O-C-N	-5.22	115.85	122.27
2	B	315	ALA	N-CA-CB	5.22	117.75	109.71
2	B	438	LEU	O-C-N	-5.22	117.21	123.27
2	D	782	ILE	CA-C-N	5.22	127.70	120.29

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	782	ILE	C-N-CA	5.22	127.70	120.29
7	W	612	ASP	O-C-N	5.22	128.10	122.15
8	c	352	GLY	CA-C-N	5.22	126.36	119.84
8	c	352	GLY	C-N-CA	5.22	126.36	119.84
8	e	26	CYS	N-CA-C	5.22	118.81	112.23
8	e	73	VAL	CA-C-O	-5.22	114.83	120.47
8	h	235	ILE	N-CA-C	-5.22	105.24	112.50
8	j	424	SER	CA-C-N	5.22	127.70	120.29
8	j	424	SER	C-N-CA	5.22	127.70	120.29
8	l	309	ARG	NE-CZ-NH2	-5.22	114.50	119.20
8	n	362	ARG	N-CA-C	-5.22	102.33	110.42
2	F	783	GLU	CA-C-N	5.22	128.24	120.31
2	F	783	GLU	C-N-CA	5.22	128.24	120.31
2	F	812	ARG	NH1-CZ-NH2	-5.22	112.52	119.30
4	J	703	TYR	N-CA-C	5.22	117.05	111.36
8	f	281	SER	O-C-N	-5.22	116.08	122.34
2	D	804	GLN	N-CA-C	-5.22	105.66	112.23
1	E	621	VAL	CA-C-O	5.22	126.81	121.28
1	G	333	THR	CA-C-N	5.22	127.22	120.44
1	G	333	THR	C-N-CA	5.22	127.22	120.44
3	I	60	GLU	CA-C-O	5.22	125.80	119.38
3	I	592	PHE	CA-C-N	5.22	127.54	120.65
3	I	592	PHE	C-N-CA	5.22	127.54	120.65
4	J	260	ILE	CA-C-O	-5.22	114.90	120.85
8	a	85	LEU	CA-C-N	5.22	129.13	120.94
8	a	85	LEU	C-N-CA	5.22	129.13	120.94
8	c	36	ILE	O-C-N	-5.22	117.56	123.20
8	d	208	THR	N-CA-C	-5.22	106.18	112.54
8	f	307	THR	O-C-N	5.22	129.32	123.48
8	f	307	THR	CA-C-O	-5.22	115.15	120.89
8	g	153	LEU	CA-C-O	5.22	125.79	119.11
8	l	286	ARG	N-CA-C	-5.22	106.15	112.88
1	A	606	GLU	CA-C-O	-5.21	114.75	120.43
2	N	767	SER	CA-C-N	5.21	127.79	120.28
2	N	767	SER	C-N-CA	5.21	127.79	120.28
7	X	658	GLU	CA-C-N	5.21	127.27	120.28
7	X	658	GLU	C-N-CA	5.21	127.27	120.28
8	h	75	HIS	CE1-NE2-CD2	-5.21	103.79	109.00
8	i	261	ILE	CA-C-N	5.21	124.53	118.85
8	i	261	ILE	C-N-CA	5.21	124.53	118.85
1	E	834	HIS	CG-CD2-NE2	5.21	112.41	107.20
1	E	838	LEU	N-CA-CB	5.21	117.88	110.16

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	718	GLN	OE1-CD-NE2	5.21	127.81	122.60
2	H	575	HIS	CG-CD2-NE2	5.21	112.41	107.20
7	V	662	GLU	CA-CB-CG	-5.21	103.68	114.10
8	c	282	VAL	N-CA-C	-5.21	107.22	112.17
8	k	385	SER	CA-C-N	5.21	127.69	120.29
8	k	385	SER	C-N-CA	5.21	127.69	120.29
8	m	339	ARG	NE-CZ-NH1	5.21	126.71	121.50
8	n	203	VAL	N-CA-CB	5.21	118.46	112.15
1	A	218	GLU	O-C-N	5.21	128.68	122.27
2	B	743	LEU	CA-C-O	5.21	125.69	119.60
2	F	418	LEU	N-CA-C	5.21	116.77	111.14
7	X	637	SER	CA-C-N	5.21	127.21	120.44
7	X	637	SER	C-N-CA	5.21	127.21	120.44
1	A	289	HIS	CG-CD2-NE2	5.21	112.41	107.20
2	B	645	GLY	CA-C-N	5.21	125.29	119.87
2	B	645	GLY	C-N-CA	5.21	125.29	119.87
1	E	656	ASN	CA-CB-CG	-5.21	107.39	112.60
1	G	358	LEU	CA-C-O	5.21	125.96	119.97
1	G	747	PHE	N-CA-CB	5.21	117.87	110.16
2	H	451	PRO	CA-C-O	-5.21	111.68	119.34
8	d	346	ALA	O-C-N	-5.21	117.38	123.27
8	i	47	ARG	CA-C-N	5.21	131.41	122.09
8	i	47	ARG	C-N-CA	5.21	131.41	122.09
8	i	115	HIS	ND1-CE1-NE2	5.21	113.61	108.40
8	n	247	GLY	N-CA-C	-5.21	103.58	112.64
1	C	295	MET	CG-SD-CE	-5.21	89.45	100.90
1	C	321	GLN	OE1-CD-NE2	-5.21	117.39	122.60
3	I	335	THR	CA-C-O	5.21	125.96	119.97
3	K	175	THR	CA-C-N	5.21	127.68	120.29
3	K	175	THR	C-N-CA	5.21	127.68	120.29
8	a	40	PHE	CA-C-O	5.21	125.94	119.12
8	e	152	TYR	O-C-N	-5.21	115.46	122.23
1	G	486	ARG	CA-C-O	5.21	125.94	120.42
3	I	602	PRO	CA-C-N	5.21	131.48	121.54
3	I	602	PRO	C-N-CA	5.21	131.48	121.54
4	J	262	THR	CA-CB-OG1	5.21	117.41	109.60
2	N	288	ASP	CA-CB-CG	5.21	117.81	112.60
8	e	354	ALA	N-CA-CB	-5.21	102.11	110.39
8	f	78	LEU	N-CA-C	-5.21	106.17	112.88
8	h	436	HIS	CG-CD2-NE2	5.21	112.41	107.20
8	n	284	SER	CA-C-N	5.21	129.85	122.09
8	n	284	SER	C-N-CA	5.21	129.85	122.09

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	709	GLU	CB-CG-CD	5.20	121.45	112.60
1	G	549	ARG	CA-C-N	-5.20	112.90	120.29
1	G	549	ARG	C-N-CA	-5.20	112.90	120.29
2	H	574	ARG	CA-C-N	5.20	127.77	120.28
2	H	574	ARG	C-N-CA	5.20	127.77	120.28
2	N	715	HIS	CB-CA-C	-5.20	102.71	110.88
2	Q	92	SER	CA-C-N	5.20	127.81	120.42
2	Q	92	SER	C-N-CA	5.20	127.81	120.42
7	V	620	ARG	CA-C-N	5.20	127.25	120.28
7	V	620	ARG	C-N-CA	5.20	127.25	120.28
8	a	124	ARG	NH1-CZ-NH2	5.20	126.06	119.30
8	a	241	THR	N-CA-C	5.20	117.69	111.71
8	j	288	THR	N-CA-CB	5.20	118.75	110.16
8	m	2	PRO	N-CD-CG	5.20	111.01	103.20
2	B	302	LYS	N-CA-C	5.20	117.69	111.71
2	D	806	GLU	O-C-N	-5.20	115.87	122.27
8	b	68	ASP	CA-C-N	5.20	129.41	120.72
8	b	68	ASP	C-N-CA	5.20	129.41	120.72
8	e	340	ILE	N-CA-C	-5.20	105.33	111.00
8	n	189	LEU	O-C-N	-5.20	115.46	122.43
1	G	354	THR	CA-CB-CG2	5.20	119.34	110.50
2	Q	85	GLY	N-CA-C	-5.20	107.87	115.72
8	d	381	HIS	N-CA-C	-5.20	101.40	109.72
8	h	135	PHE	CA-C-O	5.20	126.09	120.32
1	C	491	TYR	O-C-N	-5.20	115.36	122.33
1	E	247	VAL	N-CA-CB	5.20	117.73	110.56
4	J	305	CYS	N-CA-CB	5.20	117.61	110.07
4	J	939	ARG	NE-CZ-NH1	5.20	126.70	121.50
3	K	377	GLN	OE1-CD-NE2	5.20	127.80	122.60
2	S	33	GLN	CB-CG-CD	5.20	121.44	112.60
7	U	664	ASN	CA-CB-CG	-5.20	107.40	112.60
7	V	660	LEU	CA-C-N	5.20	127.25	120.28
7	V	660	LEU	C-N-CA	5.20	127.25	120.28
8	i	309	ARG	CA-C-N	5.20	131.50	122.56
8	i	309	ARG	C-N-CA	5.20	131.50	122.56
8	m	377	MET	O-C-N	5.20	129.43	123.29
2	F	380	LEU	CA-C-O	5.20	125.92	119.79
4	J	223	SER	O-C-N	-5.20	115.84	122.34
8	h	166	VAL	CA-C-O	-5.20	114.93	120.39
8	a	387	LEU	N-CA-CB	5.20	117.85	110.16
8	b	394	GLN	OE1-CD-NE2	5.20	127.80	122.60
8	g	161	TYR	N-CA-C	-5.20	97.31	108.64

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	m	186	TYR	O-C-N	-5.20	115.88	122.17
2	B	363	LEU	CA-C-N	5.19	128.91	120.60
2	B	363	LEU	C-N-CA	5.19	128.91	120.60
2	D	403	THR	N-CA-C	-5.19	106.94	113.28
2	D	540	THR	CA-C-O	-5.19	114.00	119.97
1	M	480	GLU	O-C-N	5.19	129.50	122.59
7	W	666	ARG	NE-CZ-NH1	5.19	126.69	121.50
7	X	615	ARG	NE-CZ-NH2	-5.19	114.53	119.20
8	e	393	ARG	N-CA-CB	5.19	118.33	110.28
8	i	198	ASN	N-CA-C	-5.19	105.24	112.30
8	k	139	HIS	CA-CB-CG	5.19	118.99	113.80
8	k	146	GLY	N-CA-C	-5.19	108.22	114.66
8	l	436	HIS	O-C-N	5.19	130.07	123.11
8	n	395	TYR	N-CA-C	-5.19	106.63	113.12
9	q	51	SER	CA-C-O	5.19	125.92	120.42
1	A	625	LEU	O-C-N	-5.19	115.85	122.34
1	E	459	VAL	CA-C-N	5.19	128.20	120.31
1	E	459	VAL	C-N-CA	5.19	128.20	120.31
2	F	409	TYR	CB-CG-CD2	-5.19	113.02	120.80
1	G	724	HIS	N-CA-CB	5.19	118.33	110.28
2	H	389	GLY	CA-C-O	5.19	125.86	120.98
8	h	78	LEU	N-CA-C	-5.19	106.95	113.28
8	j	86	TYR	CA-C-O	-5.19	115.30	121.89
8	k	423	ASN	N-CA-CB	5.19	117.84	110.16
8	n	18	GLY	CA-C-N	5.19	127.66	120.29
8	n	18	GLY	C-N-CA	5.19	127.66	120.29
2	D	589	THR	N-CA-C	-5.19	101.23	108.96
2	H	575	HIS	CE1-NE2-CD2	-5.19	103.81	109.00
3	I	314	LEU	CA-C-N	5.19	129.38	120.71
3	I	314	LEU	C-N-CA	5.19	129.38	120.71
5	L	14	SER	N-CA-C	5.19	117.02	111.36
8	e	113	LYS	CA-CB-CG	5.19	124.48	114.10
3	I	262	GLU	N-CA-C	-5.19	107.33	113.97
5	L	1556	VAL	O-C-N	-5.19	116.51	121.90
8	b	59	HIS	CG-CD2-NE2	5.19	112.39	107.20
8	j	318	ILE	CA-C-O	5.19	125.18	120.30
8	n	93	LEU	N-CA-C	-5.19	103.84	110.53
1	C	630	ASN	N-CA-CB	5.19	118.63	110.23
2	H	711	VAL	N-CA-CB	5.19	120.16	110.77
3	I	186	GLN	N-CA-C	-5.19	105.27	111.03
3	I	485	ARG	NE-CZ-NH2	5.19	123.87	119.20
1	M	265	VAL	CA-CB-CG1	5.19	119.22	110.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	c	162	PRO	N-CA-C	-5.19	107.41	114.98
8	g	252	ASP	N-CA-C	-5.19	100.85	109.46
8	j	401	ARG	NE-CZ-NH2	-5.19	114.53	119.20
8	m	211	ASN	CA-CB-CG	5.19	117.79	112.60
8	n	207	ASN	OD1-CG-ND2	5.19	127.79	122.60
1	A	675	PHE	CA-CB-CG	5.18	118.98	113.80
2	D	550	LYS	N-CA-C	-5.18	106.11	112.90
4	J	747	TRP	CA-CB-CG	5.18	123.45	113.60
2	T	17	CYS	N-CA-C	5.18	116.93	111.28
7	V	667	LEU	O-C-N	-5.18	116.73	122.07
8	n	207	ASN	CB-CG-ND2	-5.18	108.62	116.40
1	G	371	ALA	CA-C-O	5.18	125.55	119.28
3	I	141	GLU	CA-C-N	5.18	128.19	120.31
3	I	141	GLU	C-N-CA	5.18	128.19	120.31
3	K	469	ALA	CA-C-O	-5.18	115.56	120.90
1	M	348	GLU	CA-C-O	-5.18	115.71	122.45
1	M	650	VAL	O-C-N	5.18	126.99	121.91
7	W	600	ILE	CA-C-N	5.18	127.22	120.28
7	W	600	ILE	C-N-CA	5.18	127.22	120.28
8	a	124	ARG	CD-NE-CZ	5.18	131.66	124.40
8	e	57	ASP	CA-CB-CG	5.18	117.78	112.60
8	e	320	ILE	CB-CA-C	5.18	117.90	110.33
8	l	237	SER	O-C-N	-5.18	115.49	122.43
8	m	135	PHE	CA-C-O	5.18	126.07	120.32
8	n	112	GLU	N-CA-C	-5.18	106.27	112.59
2	N	716	GLN	N-CA-C	5.18	119.45	113.18
2	R	100	LEU	CA-C-N	5.18	128.20	120.95
2	R	100	LEU	C-N-CA	5.18	128.20	120.95
8	a	366	TYR	CB-CG-CD1	5.18	128.57	120.80
8	g	381	HIS	N-CA-C	-5.18	101.43	109.72
1	C	260	ASN	CA-CB-CG	-5.18	107.42	112.60
5	L	41	LYS	CA-C-N	5.18	127.53	120.54
5	L	41	LYS	C-N-CA	5.18	127.53	120.54
1	M	469	PRO	CA-C-N	5.18	131.02	121.70
1	M	469	PRO	C-N-CA	5.18	131.02	121.70
2	R	70	ASP	CB-CG-OD2	-5.18	106.49	118.40
7	W	645	GLU	N-CA-CB	5.18	117.73	110.12
8	b	286	ARG	NE-CZ-NH1	5.18	126.68	121.50
8	c	411	GLU	CA-C-N	5.18	131.39	123.47
8	c	411	GLU	C-N-CA	5.18	131.39	123.47
8	k	359	ALA	O-C-N	5.18	129.44	123.17
8	l	265	ARG	N-CA-CB	5.18	119.24	110.49

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	l	315	HIS	ND1-CE1-NE2	5.18	113.58	108.40
9	p	20	GLU	N-CA-C	5.18	116.92	111.28
4	J	218	HIS	CA-C-N	5.18	128.57	120.75
4	J	218	HIS	C-N-CA	5.18	128.57	120.75
8	c	398	LEU	N-CA-C	-5.18	105.71	112.23
1	C	214	THR	CA-C-N	5.18	127.17	120.44
1	C	214	THR	C-N-CA	5.18	127.17	120.44
2	N	341	LEU	CA-C-N	5.18	128.18	120.31
2	N	341	LEU	C-N-CA	5.18	128.18	120.31
2	O	67	ARG	O-C-N	5.18	128.82	121.83
8	a	309	ARG	O-C-N	5.18	127.87	122.23
8	c	351	TRP	CA-CB-CG	5.18	123.44	113.60
8	g	84	ASN	N-CA-C	-5.18	106.99	113.72
8	g	364	SER	CA-C-N	5.18	126.31	119.84
8	g	364	SER	C-N-CA	5.18	126.31	119.84
1	E	378	LEU	N-CA-C	5.17	117.00	111.36
2	N	796	LEU	CA-C-N	5.17	127.64	120.29
2	N	796	LEU	C-N-CA	5.17	127.64	120.29
6	P	225	GLN	OE1-CD-NE2	5.17	127.77	122.60
8	a	159	ASP	CA-C-O	5.17	124.37	118.47
8	c	102	ASN	N-CA-C	-5.17	99.78	110.80
8	f	70	GLU	N-CA-CB	5.17	118.84	110.05
8	i	90	ASN	OD1-CG-ND2	5.17	127.78	122.60
8	i	373	VAL	N-CA-CB	5.17	118.82	110.13
8	i	134	GLY	N-CA-C	-5.17	103.65	110.74
1	C	464	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	E	529	HIS	CE1-NE2-CD2	-5.17	103.83	109.00
1	E	563	ALA	N-CA-CB	5.17	117.56	109.85
1	G	323	LEU	N-CA-C	5.17	116.61	110.97
2	H	741	GLN	N-CA-C	-5.17	107.00	113.72
3	I	180	HIS	ND1-CE1-NE2	5.17	113.57	108.40
3	I	650	TYR	CA-C-N	5.17	131.67	121.58
3	I	650	TYR	C-N-CA	5.17	131.67	121.58
3	K	474	TYR	CA-CB-CG	5.17	123.21	113.90
2	N	766	GLU	CA-C-O	5.17	125.28	119.18
2	T	93	ILE	CB-CA-C	-5.17	105.08	112.22
8	b	155	GLU	N-CA-C	-5.17	105.80	112.68
8	c	90	ASN	CA-CB-CG	5.17	117.77	112.60
8	d	55	ALA	CA-C-N	5.17	129.13	120.70
8	d	55	ALA	C-N-CA	5.17	129.13	120.70
8	e	204	VAL	N-CA-CB	5.17	116.36	110.72
9	r	55	LYS	CB-CG-CD	5.17	123.20	111.30

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	e	196	THR	N-CA-C	5.17	116.92	111.28
8	g	243	LEU	CA-C-N	5.17	130.13	122.17
8	g	243	LEU	C-N-CA	5.17	130.13	122.17
8	k	114	ILE	CA-C-N	5.17	128.17	120.31
8	k	114	ILE	C-N-CA	5.17	128.17	120.31
9	s	30	ASP	O-C-N	-5.17	116.34	122.65
9	t	23	ARG	N-CA-CB	5.17	117.81	110.16
9	t	31	MET	CA-C-N	5.17	127.21	120.28
9	t	31	MET	C-N-CA	5.17	127.21	120.28
2	F	593	GLN	O-C-N	5.17	129.88	122.28
1	G	543	ASP	CA-C-O	5.17	124.87	119.91
5	L	592	ALA	N-CA-C	5.17	117.81	111.82
2	N	477	ASP	CA-CB-CG	5.17	117.77	112.60
2	R	77	LEU	N-CA-CB	5.17	118.18	110.22
7	U	634	HIS	N-CA-CB	5.17	117.50	110.01
7	U	662	GLU	CA-C-N	5.17	127.16	120.44
7	U	662	GLU	C-N-CA	5.17	127.16	120.44
8	j	42	THR	N-CA-C	-5.17	107.63	114.04
8	l	137	LEU	N-CA-CB	5.17	118.14	110.49
2	F	368	VAL	CA-C-N	5.17	131.65	121.58
2	F	368	VAL	C-N-CA	5.17	131.65	121.58
2	H	752	VAL	CA-CB-CG1	5.17	119.18	110.40
8	c	232	VAL	N-CA-C	-5.17	106.10	111.58
8	e	277	THR	CA-CB-OG1	5.17	117.35	109.60
8	h	390	ARG	NE-CZ-NH2	5.17	123.85	119.20
8	i	366	TYR	N-CA-C	-5.17	99.37	108.20
8	i	373	VAL	CA-C-O	-5.17	115.68	121.36
9	r	47	PRO	CA-C-O	-5.17	111.77	119.00
9	s	51	SER	CB-CA-C	-5.17	102.07	110.85
1	A	348	GLU	CA-C-N	5.17	128.04	120.71
1	A	348	GLU	C-N-CA	5.17	128.04	120.71
3	I	205	VAL	CB-CA-C	-5.17	102.92	110.62
2	R	48	GLU	N-CA-C	-5.17	104.79	111.71
2	S	48	GLU	N-CA-C	-5.17	100.48	108.90
8	e	99	GLY	N-CA-C	-5.17	104.29	112.66
8	h	158	ASN	N-CA-C	-5.17	105.69	112.41
8	h	186	TYR	N-CA-CB	5.17	117.78	110.13
8	h	267	HIS	CA-CB-CG	-5.17	108.64	113.80
1	A	680	THR	N-CA-C	5.16	116.99	111.36
2	D	808	ARG	CA-C-N	5.16	127.62	120.29
2	D	808	ARG	C-N-CA	5.16	127.62	120.29
1	E	243	ARG	N-CA-C	-5.16	100.98	109.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	1587	GLU	N-CA-CB	-5.16	103.49	111.65
1	M	326	TYR	CA-C-O	5.16	125.71	119.31
7	U	659	LYS	N-CA-CB	5.16	117.50	110.01
8	d	246	PRO	CA-C-N	5.16	131.53	121.41
8	d	246	PRO	C-N-CA	5.16	131.53	121.41
8	h	366	TYR	O-C-N	-5.16	117.19	123.13
8	m	123	ASP	CA-CB-CG	5.16	117.76	112.60
1	C	540	LYS	CA-C-N	5.16	126.29	119.84
1	C	540	LYS	C-N-CA	5.16	126.29	119.84
2	F	567	LEU	CA-C-O	-5.16	116.28	122.27
3	I	536	LEU	N-CA-C	5.16	119.62	112.45
2	T	11	VAL	CA-C-N	5.16	127.20	120.28
2	T	11	VAL	C-N-CA	5.16	127.20	120.28
8	g	143	GLY	CA-C-O	-5.16	117.22	122.59
8	k	353	PRO	N-CD-CG	5.16	110.94	103.20
8	n	351	TRP	N-CA-C	-5.16	106.49	112.89
9	p	45	ILE	N-CA-CB	5.16	116.66	110.31
5	L	100	GLN	O-C-N	-5.16	115.52	122.23
8	a	425	ARG	N-CA-C	5.16	116.98	111.36
8	b	428	VAL	CA-C-O	-5.16	115.32	121.05
8	c	409	ARG	NE-CZ-NH2	5.16	123.84	119.20
8	f	287	LYS	N-CA-CB	5.16	119.21	110.49
8	g	203	VAL	N-CA-CB	5.16	118.71	112.10
8	j	37	VAL	N-CA-C	5.16	117.94	112.83
8	j	429	GLN	O-C-N	-5.16	115.92	122.27
2	D	669	ALA	O-C-N	5.16	128.03	122.15
1	G	220	LEU	N-CA-CB	5.16	118.27	110.28
4	J	228	PHE	N-CA-CB	5.16	117.58	109.69
2	N	724	GLU	CB-CG-CD	5.16	121.37	112.60
8	a	184	GLN	CB-CG-CD	-5.16	103.83	112.60
8	e	215	THR	CA-CB-OG1	-5.16	101.86	109.60
8	i	322	ASN	O-C-N	-5.16	115.15	122.99
8	m	263	THR	O-C-N	-5.16	115.39	121.32
8	n	147	SER	CA-C-O	-5.16	113.56	119.60
2	F	529	PHE	CA-C-O	-5.16	114.27	120.10
2	F	868	THR	CA-C-O	-5.16	115.08	121.11
6	P	88	HIS	CE1-NE2-CD2	-5.16	103.84	109.00
6	P	159	VAL	N-CA-C	-5.16	102.20	109.21
8	b	417	ASN	CA-C-N	5.16	129.40	120.58
8	b	417	ASN	C-N-CA	5.16	129.40	120.58
8	e	58	GLU	N-CA-C	5.16	118.71	111.90
1	C	756	MET	N-CA-C	5.16	117.80	111.82

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	634	TRP	CB-CA-C	-5.16	102.23	110.79
5	L	1456	ALA	N-CA-C	-5.16	105.29	112.30
2	N	537	TYR	CA-C-N	5.16	128.15	120.31
2	N	537	TYR	C-N-CA	5.16	128.15	120.31
6	P	27	PRO	N-CA-CB	5.16	107.84	103.35
2	T	72	ALA	CA-C-N	5.16	127.19	120.28
2	T	72	ALA	C-N-CA	5.16	127.19	120.28
8	a	110	GLN	CB-CG-CD	-5.16	103.84	112.60
8	f	223	PRO	CA-C-O	-5.16	115.70	121.32
8	i	19	PHE	CA-CB-CG	-5.16	108.64	113.80
8	l	92	TYR	CA-C-N	5.16	129.28	122.42
8	l	92	TYR	C-N-CA	5.16	129.28	122.42
8	m	21	PHE	CA-C-N	5.16	128.15	120.31
8	m	21	PHE	C-N-CA	5.16	128.15	120.31
8	m	62	PRO	CA-C-O	-5.16	115.53	121.36
1	M	509	VAL	CA-C-O	-5.15	115.39	120.85
8	c	357	GLN	N-CA-C	-5.15	100.76	108.96
8	j	387	LEU	CB-CA-C	-5.15	100.77	110.67
1	C	299	GLY	CA-C-O	-5.15	114.63	120.30
3	I	134	PRO	O-C-N	5.15	129.22	122.27
5	L	403	GLU	CA-CB-CG	5.15	124.41	114.10
6	P	252	ASN	N-CA-C	-5.15	106.39	113.30
8	i	297	LEU	N-CA-CB	5.15	118.39	110.61
8	i	349	ILE	CA-C-O	-5.15	113.05	119.95
8	k	177	GLU	CA-C-O	-5.15	115.39	121.16
8	k	274	THR	N-CA-CB	-5.15	102.62	110.30
8	l	87	ASN	O-C-N	-5.15	115.41	121.23
9	q	45	ILE	N-CA-CB	5.15	119.81	111.36
2	B	313	ASP	CA-C-N	5.15	129.32	120.72
2	B	313	ASP	C-N-CA	5.15	129.32	120.72
2	Q	28	VAL	CA-CB-CG2	5.15	119.16	110.40
8	b	277	THR	N-CA-C	-5.15	101.54	109.52
8	d	381	HIS	CB-CG-CD2	-5.15	124.50	131.20
8	f	58	GLU	O-C-N	-5.15	116.40	122.58
8	i	401	ARG	N-CA-C	-5.15	107.00	113.28
1	C	258	LEU	N-CA-C	-5.15	105.75	111.36
8	a	36	ILE	CA-C-O	-5.15	114.66	120.74
8	l	414	PHE	CB-CA-C	-5.15	100.17	110.42
2	B	499	GLN	CG-CD-NE2	5.15	124.12	116.40
4	J	273	LEU	N-CA-C	5.15	116.89	111.28
8	a	435	TYR	CA-C-O	-5.15	115.42	120.82
8	f	354	ALA	N-CA-C	-5.15	101.59	109.41

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	D	701	HIS	CA-CB-CG	-5.15	108.65	113.80
2	H	616	ILE	CA-C-N	5.15	127.18	120.28
2	H	616	ILE	C-N-CA	5.15	127.18	120.28
5	L	476	GLU	N-CA-C	5.15	119.19	113.02
1	M	617	PHE	N-CA-C	-5.15	101.29	108.96
2	S	58	ILE	O-C-N	-5.15	116.88	121.87
2	B	483	LEU	O-C-N	5.14	128.01	122.15
2	D	494	GLN	N-CA-C	-5.14	105.72	112.41
2	D	701	HIS	CA-C-O	-5.14	115.40	120.70
2	H	656	MET	CA-C-N	5.14	128.13	120.31
2	H	656	MET	C-N-CA	5.14	128.13	120.31
3	K	397	GLN	N-CA-C	5.14	116.58	110.97
2	N	512	ALA	N-CA-CB	5.14	117.47	110.01
2	N	755	ASP	CA-C-O	-5.14	113.39	119.05
6	P	38	PRO	CA-C-O	-5.14	115.59	121.56
2	T	64	ARG	NE-CZ-NH1	5.14	126.64	121.50
8	a	87	ASN	N-CA-C	-5.14	97.98	108.12
8	e	107	GLY	CA-C-N	5.14	128.13	120.31
8	e	107	GLY	C-N-CA	5.14	128.13	120.31
8	e	150	GLY	CA-C-N	5.14	130.14	121.14
8	e	150	GLY	C-N-CA	5.14	130.14	121.14
8	h	52	PHE	CB-CA-C	-5.14	99.17	109.35
8	k	256	LEU	O-C-N	5.14	128.02	122.15
2	B	557	HIS	CE1-NE2-CD2	-5.14	103.86	109.00
2	D	443	HIS	CB-CG-CD2	-5.14	124.52	131.20
2	D	637	PHE	O-C-N	5.14	129.06	123.04
2	F	475	THR	CB-CA-C	5.14	120.65	110.42
2	F	557	HIS	CG-CD2-NE2	5.14	112.34	107.20
3	I	63	THR	CA-C-O	-5.14	114.78	120.33
3	I	517	GLN	CA-C-N	5.14	129.31	120.72
3	I	517	GLN	C-N-CA	5.14	129.31	120.72
3	K	192	LEU	N-CA-CB	-5.14	101.80	110.49
6	P	192	ILE	CB-CA-C	-5.14	104.82	111.20
2	T	23	LYS	N-CA-C	5.14	117.69	110.23
7	W	658	GLU	N-CA-CB	5.14	117.68	110.12
8	f	268	PHE	N-CA-CB	5.14	118.17	109.94
6	P	220	ALA	N-CA-CB	5.14	118.58	110.56
2	T	48	GLU	N-CA-C	-5.14	98.54	107.49
8	h	90	ASN	N-CA-CB	5.14	117.81	110.67
1	A	340	ILE	CA-C-O	-5.14	115.72	121.17
2	B	495	VAL	CA-C-N	5.14	131.35	121.54
2	B	495	VAL	C-N-CA	5.14	131.35	121.54

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	G	653	LEU	N-CA-C	5.14	117.78	111.82
2	H	301	ASN	N-CA-CB	5.14	118.92	110.39
4	J	328	ASP	CA-CB-CG	5.14	117.74	112.60
2	N	650	VAL	CA-CB-CG2	-5.14	101.66	110.40
7	X	635	ILE	N-CA-CB	5.14	116.56	110.55
8	a	168	THR	CA-CB-OG1	5.14	117.31	109.60
8	i	295	ARG	NE-CZ-NH2	5.14	123.83	119.20
8	j	436	HIS	CA-CB-CG	-5.14	108.66	113.80
4	J	765	TYR	CA-C-O	-5.14	116.52	120.48
8	b	331	THR	CA-CB-CG2	5.14	119.23	110.50
8	g	333	VAL	CA-C-O	-5.14	114.70	120.25
8	l	60	TYR	CA-CB-CG	-5.14	104.65	113.90
2	H	590	THR	CA-CB-OG1	5.14	117.30	109.60
3	I	492	GLN	CA-C-N	5.14	131.28	122.09
3	I	492	GLN	C-N-CA	5.14	131.28	122.09
3	K	44	ARG	NE-CZ-NH1	5.14	126.64	121.50
2	Q	115	ALA	N-CA-C	5.14	116.88	111.28
8	a	385	SER	N-CA-CB	5.14	118.77	110.40
8	d	270	MET	CB-CA-C	-5.14	100.85	109.53
8	d	416	ASP	N-CA-C	-5.14	100.87	109.24
8	h	408	PHE	CA-CB-CG	-5.14	108.66	113.80
8	n	19	PHE	CA-C-O	5.14	125.86	120.42
2	B	492	LEU	N-CA-C	-5.13	106.70	113.17
2	F	759	SER	N-CA-C	5.13	117.61	111.71
5	L	210	LYS	O-C-N	5.13	127.56	122.12
8	b	3	ARG	N-CA-C	-5.13	99.53	109.24
8	f	127	ASP	CA-CB-CG	5.13	117.73	112.60
8	g	103	ASN	CA-CB-CG	5.13	117.73	112.60
2	F	582	PRO	N-CA-CB	5.13	108.23	103.41
3	K	442	ARG	CA-C-N	5.13	128.50	120.75
3	K	442	ARG	C-N-CA	5.13	128.50	120.75
5	L	1550	HIS	CE1-NE2-CD2	-5.13	103.87	109.00
1	C	499	LEU	CA-C-O	-5.13	114.98	120.42
2	D	495	VAL	CA-C-O	5.13	124.64	119.97
2	H	690	LEU	O-C-N	-5.13	116.15	122.05
3	I	449	TRP	CB-CG-CD2	5.13	133.98	126.80
3	K	121	HIS	ND1-CE1-NE2	5.13	113.53	108.40
1	M	374	LEU	CB-CA-C	5.13	119.41	110.79
8	e	399	ARG	CA-C-O	5.13	125.69	119.38
8	h	265	ARG	CD-NE-CZ	-5.13	117.22	124.40
8	h	357	GLN	O-C-N	5.13	129.07	123.22
3	K	146	GLN	CA-C-O	5.13	125.00	119.15

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	493	HIS	ND1-CE1-NE2	5.13	113.53	108.40
5	L	512	ASN	N-CA-C	-5.13	100.66	108.76
1	M	398	ILE	CB-CA-C	5.13	116.94	111.35
1	M	404	SER	CB-CA-C	5.13	120.63	110.42
2	T	32	PHE	CA-C-O	5.13	125.98	120.70
8	f	405	LEU	N-CA-C	-5.13	105.74	112.41
1	A	861	LEU	CA-C-N	5.13	128.80	120.60
1	A	861	LEU	C-N-CA	5.13	128.80	120.60
1	C	371	ALA	CA-C-O	-5.13	114.07	119.97
2	D	572	PHE	CA-CB-CG	-5.13	108.67	113.80
2	H	793	ARG	NE-CZ-NH2	5.13	123.81	119.20
2	N	391	LYS	N-CA-C	-5.13	100.09	108.76
8	m	343	ARG	CA-CB-CG	-5.13	103.84	114.10
1	A	464	HIS	CB-CG-ND1	5.13	130.39	122.70
2	B	411	ARG	NE-CZ-NH1	-5.13	116.37	121.50
1	C	705	TRP	O-C-N	-5.13	115.96	122.27
1	C	832	SER	CA-C-N	5.13	127.57	120.29
1	C	832	SER	C-N-CA	5.13	127.57	120.29
2	D	879	LEU	CA-C-N	5.13	128.10	120.31
2	D	879	LEU	C-N-CA	5.13	128.10	120.31
2	F	423	TYR	O-C-N	-5.13	115.42	121.32
2	H	654	GLU	N-CA-C	-5.13	106.98	113.18
8	f	366	TYR	CG-CD1-CE1	-5.13	113.51	121.20
8	i	414	PHE	N-CA-C	-5.13	102.73	110.06
2	B	485	ILE	N-CA-C	-5.12	105.41	111.00
2	B	613	ASN	N-CA-C	-5.12	105.48	112.35
3	I	118	SER	N-CA-CB	5.12	119.15	110.49
1	M	253	SER	N-CA-CB	5.12	119.02	110.41
1	M	376	LEU	N-CA-CB	5.12	117.75	110.16
2	Q	59	LYS	CB-CG-CD	5.12	123.09	111.30
2	R	42	ASN	CA-C-N	5.12	131.18	122.37
2	R	42	ASN	C-N-CA	5.12	131.18	122.37
2	S	64	ARG	O-C-N	-5.12	116.69	122.12
8	g	128	GLY	O-C-N	-5.12	116.04	122.70
2	D	836	GLN	CA-C-O	-5.12	113.74	119.79
2	F	443	HIS	CG-CD2-NE2	5.12	112.32	107.20
1	G	285	GLY	CA-C-N	5.12	131.32	121.54
1	G	285	GLY	C-N-CA	5.12	131.32	121.54
3	K	625	LEU	CA-C-N	5.12	128.10	120.31
3	K	625	LEU	C-N-CA	5.12	128.10	120.31
7	W	602	PHE	N-CA-C	5.12	116.67	111.14
8	f	3	ARG	NE-CZ-NH2	5.12	123.81	119.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	C	712	LEU	N-CA-CB	-5.12	102.05	110.40
3	I	519	HIS	ND1-CE1-NE2	5.12	113.52	108.40
4	J	769	SER	N-CA-C	-5.12	108.30	114.75
3	K	503	HIS	CA-CB-CG	-5.12	108.68	113.80
5	L	513	SER	CA-C-O	5.12	127.83	120.51
5	L	1466	LEU	CA-C-O	-5.12	115.63	120.34
6	P	182	GLY	CA-C-O	5.12	125.93	120.30
8	g	384	ILE	CA-CB-CG1	5.12	119.11	110.40
8	j	210	LEU	CA-C-N	5.12	131.32	121.18
8	j	210	LEU	C-N-CA	5.12	131.32	121.18
2	B	850	THR	CA-C-O	5.12	125.68	119.38
2	F	263	LYS	CA-CB-CG	5.12	124.34	114.10
2	F	452	VAL	CB-CA-C	5.12	118.31	111.19
2	S	54	VAL	CA-C-N	5.12	127.14	120.28
2	S	54	VAL	C-N-CA	5.12	127.14	120.28
8	m	164	LYS	N-CA-CB	5.12	117.56	109.83
1	A	224	LEU	CA-C-N	5.12	129.72	122.09
1	A	224	LEU	C-N-CA	5.12	129.72	122.09
1	C	825	ASN	CA-CB-CG	5.12	117.72	112.60
2	D	621	ASP	CA-C-O	5.12	127.86	121.46
2	D	856	ILE	N-CA-C	5.12	115.34	110.53
5	L	1515	HIS	CA-C-O	-5.12	114.32	120.10
8	g	285	VAL	N-CA-C	-5.12	104.58	111.44
8	l	55	ALA	CA-C-O	5.12	126.82	121.19
8	l	411	GLU	N-CA-CB	5.12	119.21	110.71
8	n	144	GLY	N-CA-C	-5.12	106.70	115.61
1	E	432	THR	CA-CB-CG2	5.12	119.20	110.50
1	E	717	ASN	CA-C-O	5.12	126.83	120.54
5	L	1600	LEU	CA-C-N	5.12	127.14	120.28
5	L	1600	LEU	C-N-CA	5.12	127.14	120.28
2	R	12	LEU	O-C-N	-5.12	116.70	122.12
1	C	826	ASN	CA-CB-CG	5.12	117.72	112.60
2	F	480	ARG	N-CA-C	-5.12	106.30	112.54
4	J	472	VAL	CA-CB-CG1	5.12	119.09	110.40
3	K	53	ILE	CA-CB-CG1	5.12	119.10	110.40
2	N	265	VAL	CB-CA-C	-5.12	104.75	111.25
2	O	33	GLN	CA-C-O	-5.12	115.13	120.55
6	P	283	MET	N-CA-C	5.12	119.39	113.20
8	b	89	GLU	O-C-N	5.12	127.52	122.10
8	c	81	PRO	N-CA-CB	5.12	108.62	103.25
8	j	41	ALA	N-CA-C	5.12	118.67	112.23
1	A	619	TYR	N-CA-C	-5.11	100.70	109.24

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	B	718	GLN	OE1-CD-NE2	5.11	127.71	122.60
2	F	726	LEU	O-C-N	5.11	128.20	122.22
2	F	875	LEU	N-CA-CB	5.11	117.73	110.16
1	M	303	MET	CG-SD-CE	-5.11	89.65	100.90
2	O	46	THR	CA-C-N	5.11	129.70	123.10
2	O	46	THR	C-N-CA	5.11	129.70	123.10
8	a	303	VAL	CA-C-N	5.11	130.26	122.23
8	a	303	VAL	C-N-CA	5.11	130.26	122.23
8	b	28	GLU	N-CA-C	-5.11	107.21	113.50
8	d	428	VAL	O-C-N	5.11	127.10	121.83
8	h	43	GLU	CB-CG-CD	-5.11	103.91	112.60
8	j	77	ILE	N-CA-C	-5.11	108.31	113.47
8	j	124	ARG	N-CA-C	-5.11	105.40	111.69
8	k	181	VAL	O-C-N	-5.11	117.37	123.05
4	J	997	VAL	N-CA-CB	-5.11	106.59	112.21
5	L	40	LYS	O-C-N	5.11	127.33	122.07
2	N	447	VAL	N-CA-C	-5.11	101.10	108.87
8	h	416	ASP	CA-CB-CG	-5.11	107.49	112.60
2	B	785	GLN	N-CA-C	5.11	117.63	111.40
2	F	677	THR	N-CA-C	5.11	116.93	111.36
2	H	441	THR	O-C-N	-5.11	116.34	122.27
1	M	358	LEU	O-C-N	-5.11	115.98	122.27
2	O	98	LEU	CA-C-N	5.11	129.25	120.72
2	O	98	LEU	C-N-CA	5.11	129.25	120.72
2	R	8	SER	CA-C-N	5.11	126.23	119.84
2	R	8	SER	C-N-CA	5.11	126.23	119.84
8	e	65	VAL	CB-CA-C	5.11	118.37	110.50
8	g	417	ASN	CA-C-O	5.11	124.45	119.08
8	k	160	ARG	NH1-CZ-NH2	5.11	125.94	119.30
8	l	75	HIS	CG-CD2-NE2	5.11	112.31	107.20
1	E	745	LYS	O-C-N	-5.11	115.59	122.23
3	K	161	SER	N-CA-CB	5.11	118.99	110.41
2	D	518	ALA	O-C-N	-5.11	116.70	122.12
1	E	264	PRO	O-C-N	5.11	129.53	122.64
2	F	739	LYS	N-CA-C	-5.11	107.08	113.72
2	F	756	THR	O-C-N	5.11	128.55	122.27
2	H	780	GLN	N-CA-C	-5.11	105.79	112.23
8	i	33	PRO	O-C-N	5.11	129.53	122.64
8	i	264	PRO	O-C-N	5.11	129.53	122.64
8	j	70	GLU	CB-CA-C	-5.11	102.02	109.38
8	m	65	VAL	CA-C-O	5.11	126.39	120.67
8	m	252	ASP	CA-CB-CG	-5.11	107.49	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	266	ALA	N-CA-C	5.11	116.92	111.36
1	C	282	PHE	N-CA-C	-5.11	106.56	112.89
1	C	392	ARG	O-C-N	-5.11	115.59	122.43
1	C	703	PRO	CA-C-O	-5.11	112.47	118.90
1	E	843	SER	CA-C-O	-5.11	114.10	119.97
4	J	889	VAL	CA-C-O	5.11	126.26	120.85
5	L	1625	LYS	O-C-N	-5.11	116.25	122.22
8	b	246	PRO	CA-C-O	-5.11	115.75	121.32
8	c	173	PRO	CB-CA-C	5.11	117.76	111.23
8	c	250	ASN	OD1-CG-ND2	5.11	127.70	122.60
8	g	164	LYS	N-CA-C	5.11	117.70	110.50
8	i	110	GLN	CG-CD-NE2	-5.11	108.74	116.40
2	B	597	THR	N-CA-C	5.10	117.74	111.82
2	B	612	ASP	N-CA-CB	5.10	117.81	110.20
2	D	307	THR	N-CA-C	-5.10	105.90	111.82
1	G	706	HIS	ND1-CE1-NE2	5.10	113.50	108.40
6	P	371	HIS	CE1-NE2-CD2	-5.10	103.90	109.00
8	e	230	GLN	CA-C-O	5.10	126.23	120.00
9	s	23	ARG	CB-CA-C	-5.10	102.17	110.85
2	F	279	LYS	N-CA-C	-5.10	101.84	109.95
3	I	587	GLU	CB-CG-CD	-5.10	103.92	112.60
4	J	313	ILE	CA-C-N	5.10	127.12	120.28
4	J	313	ILE	C-N-CA	5.10	127.12	120.28
1	M	825	ASN	CA-CB-CG	5.10	117.70	112.60
8	e	333	VAL	O-C-N	-5.10	114.83	121.82
8	g	173	PRO	N-CA-C	-5.10	101.96	112.47
8	k	251	ASN	CA-C-O	5.10	125.64	119.31
8	m	227	GLN	OE1-CD-NE2	5.10	127.70	122.60
8	n	120	ASP	N-CA-C	-5.10	105.75	112.94
8	n	139	HIS	CG-CD2-NE2	5.10	112.30	107.20
8	n	365	PRO	N-CA-CB	5.10	108.57	102.60
2	D	708	SER	CA-C-O	5.10	125.66	119.38
1	G	410	GLU	N-CA-C	-5.10	102.73	110.28
1	M	358	LEU	CA-C-O	5.10	125.84	119.97
8	f	86	TYR	CB-CG-CD1	5.10	128.45	120.80
8	i	24	GLN	OE1-CD-NE2	-5.10	117.50	122.60
8	k	257	ILE	CA-C-O	-5.10	114.96	120.47
8	l	207	ASN	OD1-CG-ND2	5.10	127.70	122.60
8	l	310	ASP	CA-C-O	5.10	126.12	119.95
2	D	282	VAL	CA-C-N	5.10	130.25	120.97
2	D	282	VAL	C-N-CA	5.10	130.25	120.97
2	D	390	ARG	NE-CZ-NH1	5.10	126.60	121.50

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
2	F	388	GLN	N-CA-C	-5.10	106.89	114.64
2	F	508	VAL	CA-C-N	5.10	125.64	119.98
2	F	508	VAL	C-N-CA	5.10	125.64	119.98
2	F	735	ASN	O-C-N	-5.10	115.81	122.59
2	H	783	GLU	O-C-N	-5.10	116.00	122.27
3	I	370	GLN	CB-CG-CD	5.10	121.27	112.60
5	L	1585	LEU	N-CA-C	5.10	121.66	110.80
2	S	68	GLU	N-CA-CB	5.10	117.71	110.16
8	g	132	LEU	CA-C-N	5.10	127.57	120.63
8	g	132	LEU	C-N-CA	5.10	127.57	120.63
8	m	266	LEU	N-CA-C	-5.10	99.94	110.80
2	F	583	GLU	CA-C-O	5.10	125.56	119.60
2	H	659	TYR	N-CA-CB	5.10	118.85	110.39
2	N	342	HIS	CB-CG-ND1	5.10	130.35	122.70
6	P	87	HIS	ND1-CE1-NE2	5.10	113.50	108.40
2	T	96	LEU	N-CA-C	5.10	116.52	111.07
8	k	180	HIS	CB-CG-CD2	-5.10	124.57	131.20
2	B	461	ASP	CB-CA-C	-5.10	101.26	109.72
6	P	164	PRO	O-C-N	-5.10	117.27	123.03
8	c	407	GLN	CB-CG-CD	5.10	121.26	112.60
8	d	315	HIS	ND1-CE1-NE2	5.10	113.50	108.40
2	F	531	THR	N-CA-C	5.09	117.73	111.82
1	G	430	ARG	CA-C-O	-5.09	114.88	120.43
6	P	364	GLU	CA-C-O	5.09	124.75	119.14
2	Q	49	ARG	N-CA-C	-5.09	104.40	111.28
2	Q	69	ALA	CA-C-N	5.09	128.05	120.31
2	Q	69	ALA	C-N-CA	5.09	128.05	120.31
2	R	54	VAL	CA-C-N	5.09	127.11	120.28
2	R	54	VAL	C-N-CA	5.09	127.11	120.28
7	U	636	GLN	CA-C-N	5.09	127.11	120.28
7	U	636	GLN	C-N-CA	5.09	127.11	120.28
8	g	250	ASN	CB-CG-ND2	5.09	124.04	116.40
8	h	93	LEU	N-CA-C	-5.09	101.40	109.76
8	m	59	HIS	CA-C-N	5.09	130.68	123.14
8	m	59	HIS	C-N-CA	5.09	130.68	123.14
1	A	470	ASP	CA-CB-CG	5.09	117.69	112.60
2	D	432	TRP	CE2-CD2-CE3	5.09	123.89	118.80
1	G	747	PHE	CB-CG-CD1	5.09	129.36	120.70
5	L	1413	SER	N-CA-CB	5.09	118.17	110.28
8	g	156	ARG	NE-CZ-NH2	-5.09	114.62	119.20
9	r	58	ARG	CA-C-O	-5.09	115.02	120.42
1	A	440	SER	CA-C-N	5.09	128.70	121.42

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	440	SER	C-N-CA	5.09	128.70	121.42
1	A	643	HIS	CA-CB-CG	-5.09	108.71	113.80
2	B	865	THR	N-CA-C	-5.09	105.73	111.28
1	E	243	ARG	CD-NE-CZ	-5.09	117.27	124.40
1	G	517	HIS	N-CA-C	5.09	118.75	112.54
4	J	771	ARG	NE-CZ-NH2	5.09	123.78	119.20
2	N	701	HIS	N-CA-C	5.09	116.91	111.36
2	D	517	ASP	N-CA-CB	5.09	117.60	110.12
1	E	760	CYS	CA-C-N	5.09	128.05	120.31
1	E	760	CYS	C-N-CA	5.09	128.05	120.31
2	H	680	TRP	CZ3-CH2-CZ2	-5.09	114.88	121.50
3	I	149	HIS	CB-CG-CD2	-5.09	124.58	131.20
4	J	373	GLU	CB-CG-CD	-5.09	103.95	112.60
8	g	9	GLN	CA-C-O	-5.09	114.89	120.69
8	i	391	THR	CA-CB-OG1	5.09	117.23	109.60
8	j	396	ASP	N-CA-CB	5.09	118.14	110.30
8	n	377	MET	CA-C-N	5.09	131.08	123.24
8	n	377	MET	C-N-CA	5.09	131.08	123.24
2	H	773	GLN	CA-C-N	5.09	128.04	120.31
2	H	773	GLN	C-N-CA	5.09	128.04	120.31
5	L	77	PHE	CA-C-N	5.09	127.10	120.28
5	L	77	PHE	C-N-CA	5.09	127.10	120.28
5	L	338	ALA	CA-C-N	5.09	130.55	121.75
5	L	338	ALA	C-N-CA	5.09	130.55	121.75
1	M	617	PHE	N-CA-CB	5.09	119.60	111.56
6	P	244	ASP	CA-CB-CG	5.09	117.69	112.60
1	C	232	ILE	N-CA-C	-5.09	100.32	107.75
2	N	328	HIS	CG-CD2-NE2	5.09	112.29	107.20
2	Q	32	PHE	N-CA-CB	5.09	117.39	110.01
8	a	39	GLU	O-C-N	5.09	128.44	122.34
8	a	323	ILE	N-CA-CB	5.09	117.16	111.21
8	c	135	PHE	CA-C-O	-5.09	114.67	120.32
8	h	79	ASN	N-CA-CB	5.09	118.38	110.44
8	k	172	PHE	CA-C-O	-5.09	115.42	120.96
8	l	383	ASN	CA-C-O	5.09	125.58	119.43
8	m	98	GLY	N-CA-C	-5.09	106.46	111.85
8	n	234	THR	CA-CB-OG1	5.09	117.23	109.60
2	F	527	ASN	N-CA-C	-5.08	106.91	114.64
8	n	282	VAL	N-CA-CB	5.08	119.62	111.23
2	D	360	SER	CA-C-N	5.08	131.05	122.87
2	D	360	SER	C-N-CA	5.08	131.05	122.87
2	D	750	HIS	CG-CD2-NE2	5.08	112.28	107.20

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	I	312	HIS	CB-CA-C	-5.08	102.35	110.79
4	J	873	GLN	N-CA-CB	5.08	119.08	110.49
2	O	82	GLN	CB-CA-C	-5.08	102.21	110.85
8	d	75	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
8	e	116	GLU	CB-CA-C	-5.08	102.21	110.85
8	i	106	SER	N-CA-C	-5.08	105.39	111.03
8	k	149	LEU	N-CA-C	-5.08	106.24	112.90
1	A	637	TYR	CA-C-N	5.08	128.03	120.31
1	A	637	TYR	C-N-CA	5.08	128.03	120.31
1	A	857	ILE	N-CA-C	-5.08	105.44	112.50
1	E	225	ILE	N-CA-C	5.08	117.44	111.09
2	F	686	ASN	OD1-CG-ND2	-5.08	117.52	122.60
1	M	688	PHE	CB-CA-C	-5.08	102.21	110.85
8	a	24	GLN	CA-CB-CG	5.08	124.27	114.10
8	a	125	GLU	O-C-N	-5.08	116.55	122.09
8	b	92	TYR	N-CA-CB	5.08	120.97	111.52
8	b	436	HIS	N-CA-CB	5.08	117.50	109.83
8	c	267	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
8	g	208	THR	N-CA-C	5.08	118.74	112.54
8	k	219	HIS	ND1-CE1-NE2	5.08	113.48	108.40
9	s	29	LEU	CA-C-O	-5.08	114.84	120.38
2	B	749	ALA	N-CA-C	5.08	119.19	112.89
1	C	621	VAL	CA-C-O	5.08	128.03	121.32
4	J	385	LYS	CA-C-N	5.08	130.84	121.70
4	J	385	LYS	C-N-CA	5.08	130.84	121.70
8	h	228	ILE	O-C-N	5.08	127.09	122.06
8	n	260	LEU	CB-CA-C	-5.08	100.87	110.01
1	A	454	LYS	N-CA-CB	5.08	117.68	110.16
1	C	300	LYS	N-CA-CB	5.08	117.68	110.16
2	D	542	LYS	N-CA-CB	5.08	118.12	110.30
4	J	555	ILE	CB-CA-C	5.08	120.49	112.26
2	N	625	LEU	CA-C-O	5.08	127.83	121.89
6	P	257	CYS	CA-C-O	-5.08	113.20	120.16
8	c	404	PHE	CA-CB-CG	-5.08	108.72	113.80
8	f	114	ILE	CA-CB-CG1	5.08	119.03	110.40
8	f	263	THR	CA-C-O	-5.08	113.20	120.16
9	t	8	MET	N-CA-CB	5.08	119.13	110.50
1	A	706	HIS	ND1-CE1-NE2	5.08	113.48	108.40
2	D	829	ASN	CA-C-O	5.08	125.62	119.38
2	H	872	LEU	N-CA-C	-5.08	107.25	113.50
7	V	602	PHE	N-CA-CB	5.08	117.37	110.01
8	f	229	ASN	N-CA-C	-5.08	107.14	113.38

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	A	834	HIS	CG-CD2-NE2	5.08	112.28	107.20
2	B	328	HIS	CE1-NE2-CD2	-5.08	103.92	109.00
1	M	325	PHE	CA-CB-CG	5.08	118.88	113.80
1	M	567	PRO	CA-N-CD	-5.08	104.89	112.00
8	b	46	ASP	N-CA-C	-5.08	106.93	113.02
8	b	130	ASP	CA-C-N	5.08	129.88	121.86
8	b	130	ASP	C-N-CA	5.08	129.88	121.86
8	d	436	HIS	CB-CG-ND1	5.08	130.31	122.70
8	k	75	HIS	CG-CD2-NE2	5.08	112.28	107.20
1	C	386	TYR	CB-CG-CD2	5.07	128.41	120.80
1	E	394	ILE	CA-C-O	-5.07	115.28	120.71
2	F	658	HIS	CG-CD2-NE2	5.07	112.27	107.20
2	F	747	ILE	CA-CB-CG1	5.07	119.03	110.40
2	H	797	GLU	CA-CB-CG	5.07	124.25	114.10
3	I	392	VAL	CA-C-N	5.07	127.34	120.44
3	I	392	VAL	C-N-CA	5.07	127.34	120.44
4	J	308	SER	N-CA-CB	5.07	117.82	110.26
4	J	907	GLU	CA-C-N	5.07	127.49	120.29
4	J	907	GLU	C-N-CA	5.07	127.49	120.29
3	K	343	LEU	CB-CA-C	-5.07	102.49	110.86
8	g	230	GLN	O-C-N	5.07	129.74	122.28
8	g	233	SER	O-C-N	-5.07	115.63	122.43
9	t	9	SER	O-C-N	5.07	127.30	122.07
8	l	40	PHE	CA-CB-CG	5.07	118.87	113.80
1	G	392	ARG	N-CA-C	-5.07	106.35	112.54
1	G	640	LEU	CA-C-N	5.07	127.34	120.44
1	G	640	LEU	C-N-CA	5.07	127.34	120.44
3	I	271	ARG	CG-CD-NE	-5.07	100.84	112.00
4	J	445	ASN	N-CA-CB	5.07	117.85	110.65
8	c	6	ILE	N-CA-C	-5.07	100.59	107.99
8	i	37	VAL	N-CA-C	5.07	118.02	113.10
8	j	401	ARG	CB-CG-CD	5.07	122.96	111.30
8	n	141	ILE	N-CA-C	-5.07	104.94	112.04
9	s	57	LEU	CA-C-N	5.07	127.03	120.44
9	s	57	LEU	C-N-CA	5.07	127.03	120.44
1	A	682	ARG	N-CA-C	-5.07	105.65	111.07
2	B	298	TRP	CD2-CE2-CZ2	-5.07	117.33	122.40
2	D	477	ASP	N-CA-C	-5.07	106.60	112.89
1	M	497	VAL	N-CA-C	5.07	119.88	109.34
8	i	180	HIS	CE1-NE2-CD2	-5.07	103.93	109.00
8	j	194	ARG	NH1-CZ-NH2	5.07	125.89	119.30
8	j	362	ARG	O-C-N	-5.07	117.38	123.06

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	k	415	LYS	CA-C-O	-5.07	115.51	121.44
8	m	222	ASN	CA-C-N	5.07	124.98	119.76
8	m	222	ASN	C-N-CA	5.07	124.98	119.76
8	n	282	VAL	N-CA-C	-5.07	98.80	109.34
1	A	823	THR	CA-C-N	5.07	129.00	120.29
1	A	823	THR	C-N-CA	5.07	129.00	120.29
1	G	615	PHE	CA-CB-CG	5.07	118.87	113.80
4	J	988	PHE	CA-CB-CG	-5.07	108.73	113.80
7	X	643	LEU	CA-C-N	5.07	127.03	120.44
7	X	643	LEU	C-N-CA	5.07	127.03	120.44
8	i	53	TYR	CB-CA-C	5.07	117.46	110.16
2	B	796	LEU	N-CA-C	-5.07	105.41	112.45
1	C	259	VAL	CA-C-O	5.07	125.71	119.58
1	G	642	ARG	N-CA-C	5.07	117.69	111.82
1	G	724	HIS	CA-C-N	5.07	129.29	120.68
1	G	724	HIS	C-N-CA	5.07	129.29	120.68
3	I	23	THR	CA-C-O	5.07	124.76	118.43
3	I	139	VAL	CA-C-O	-5.07	115.43	121.05
3	K	35	HIS	CA-C-N	5.07	126.17	119.84
3	K	35	HIS	C-N-CA	5.07	126.17	119.84
2	N	664	ASN	CA-CB-CG	5.07	117.67	112.60
6	P	333	PRO	N-CA-CB	5.07	108.57	103.25
7	U	617	ALA	CB-CA-C	-5.07	102.90	110.90
8	a	90	ASN	CA-C-N	5.07	131.09	121.97
8	a	90	ASN	C-N-CA	5.07	131.09	121.97
8	e	95	GLU	CB-CG-CD	-5.07	103.99	112.60
8	h	37	VAL	CB-CA-C	-5.07	106.54	111.05
8	j	219	HIS	O-C-N	5.07	129.33	122.59
8	m	98	GLY	CA-C-O	-5.07	118.23	122.33
1	C	411	HIS	CB-CG-CD2	-5.06	124.62	131.20
2	D	428	PHE	CA-CB-CG	-5.06	108.74	113.80
2	D	773	GLN	CG-CD-NE2	5.06	124.00	116.40
2	D	848	ILE	N-CA-C	-5.06	105.61	113.16
8	e	343	ARG	CD-NE-CZ	5.06	131.49	124.40
8	f	37	VAL	N-CA-CB	-5.06	106.30	112.33
8	i	100	ALA	N-CA-C	5.06	116.80	111.28
9	q	15	MET	CA-C-N	5.06	127.02	120.44
9	q	15	MET	C-N-CA	5.06	127.02	120.44
2	B	460	HIS	CG-CD2-NE2	5.06	112.26	107.20
2	D	840	PRO	N-CA-CB	5.06	108.86	103.39
1	G	338	ALA	CB-CA-C	-5.06	100.05	110.38
4	J	804	VAL	CA-C-N	5.06	129.17	120.72

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
4	J	804	VAL	C-N-CA	5.06	129.17	120.72
8	d	176	ASP	CA-C-O	5.06	125.34	119.32
8	f	304	MET	CG-SD-CE	-5.06	89.76	100.90
8	i	183	VAL	CA-C-N	5.06	126.42	120.09
8	i	183	VAL	C-N-CA	5.06	126.42	120.09
8	i	425	ARG	N-CA-C	5.06	116.88	111.36
8	j	388	PHE	CA-CB-CG	5.06	118.86	113.80
3	I	162	CYS	N-CA-C	-5.06	106.36	112.54
5	L	470	GLN	CA-C-N	5.06	127.06	120.28
5	L	470	GLN	C-N-CA	5.06	127.06	120.28
8	a	178	MET	N-CA-C	-5.06	100.02	110.80
1	A	674	TRP	CA-CB-CG	5.06	123.21	113.60
1	E	331	LEU	CA-C-N	5.06	127.02	120.44
1	E	331	LEU	C-N-CA	5.06	127.02	120.44
3	I	447	SER	CA-C-O	5.06	126.80	121.33
4	J	384	ASN	CA-CB-CG	5.06	117.66	112.60
4	J	689	HIS	ND1-CE1-NE2	5.06	113.46	108.40
1	M	275	PHE	CA-C-O	-5.06	114.62	120.24
8	f	173	PRO	CA-C-O	-5.06	115.81	122.19
8	h	238	ALA	O-C-N	-5.06	116.05	122.27
8	j	290	VAL	CA-C-O	5.06	124.56	119.20
1	C	309	LEU	N-CA-CB	5.06	118.33	110.44
2	H	328	HIS	CA-C-O	-5.06	114.15	119.97
3	I	383	PRO	CA-C-O	-5.06	113.23	120.56
4	J	235	HIS	N-CA-C	-5.06	107.50	113.97
3	K	152	GLN	CA-C-O	5.06	125.40	119.28
2	R	86	VAL	CA-C-N	5.06	129.70	122.72
2	R	86	VAL	C-N-CA	5.06	129.70	122.72
8	n	410	LYS	N-CA-C	-5.06	108.85	114.62
1	A	360	ASP	CA-CB-CG	5.06	117.66	112.60
2	B	404	LYS	CA-C-O	-5.06	113.16	119.38
2	D	688	LYS	CA-C-N	5.06	130.56	121.66
2	D	688	LYS	C-N-CA	5.06	130.56	121.66
3	I	149	HIS	CB-CG-ND1	5.06	130.28	122.70
5	L	382	GLN	CG-CD-NE2	5.06	123.98	116.40
2	N	625	LEU	O-C-N	-5.06	116.76	122.68
8	b	3	ARG	NE-CZ-NH2	-5.06	114.65	119.20
8	g	160	ARG	N-CA-C	-5.06	107.16	113.38
8	k	223	PRO	N-CA-C	5.06	119.15	111.11
1	A	847	THR	N-CA-C	-5.05	106.86	112.57
2	H	497	HIS	CA-C-O	-5.05	115.85	121.51
4	J	303	GLN	CG-CD-NE2	-5.05	108.82	116.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	1681	HIS	CA-C-N	5.05	127.47	120.29
5	L	1681	HIS	C-N-CA	5.05	127.47	120.29
2	N	859	GLN	OE1-CD-NE2	5.05	127.66	122.60
2	R	33	GLN	CA-C-N	5.05	127.05	120.28
2	R	33	GLN	C-N-CA	5.05	127.05	120.28
8	a	210	LEU	N-CA-C	-5.05	105.68	111.14
8	c	396	ASP	N-CA-C	5.05	118.60	112.23
8	i	315	HIS	CB-CG-ND1	5.05	130.28	122.70
8	k	219	HIS	CE1-NE2-CD2	-5.05	103.94	109.00
8	l	295	ARG	CD-NE-CZ	-5.05	117.32	124.40
1	A	450	LEU	O-C-N	-5.05	116.86	122.07
3	K	14	GLY	O-C-N	-5.05	117.48	123.09
3	K	392	VAL	CA-C-O	-5.05	115.01	120.47
5	L	44	TYR	N-CA-CB	5.05	117.64	110.16
2	N	661	ARG	NE-CZ-NH1	5.05	126.55	121.50
8	j	261	ILE	N-CA-C	-5.05	101.60	107.61
8	n	427	ILE	CA-C-O	5.05	126.21	120.85
4	J	428	ARG	NE-CZ-NH1	5.05	126.55	121.50
3	K	652	LYS	CA-C-N	5.05	127.56	120.28
3	K	652	LYS	C-N-CA	5.05	127.56	120.28
6	P	371	HIS	N-CA-C	-5.05	105.86	111.36
7	W	647	TYR	N-CA-CB	-5.05	103.11	110.53
8	c	18	GLY	N-CA-C	-5.05	107.78	115.66
8	d	219	HIS	CB-CG-CD2	-5.05	124.63	131.20
8	g	290	VAL	N-CA-C	-5.05	107.42	111.91
9	s	56	GLU	CA-C-N	5.05	127.46	120.29
9	s	56	GLU	C-N-CA	5.05	127.46	120.29
1	A	557	ALA	CA-C-O	5.05	125.61	119.05
1	A	748	SER	N-CA-C	-5.05	105.78	111.28
2	D	704	HIS	ND1-CE1-NE2	5.05	113.45	108.40
2	F	758	ILE	CA-CB-CG1	5.05	118.98	110.40
2	F	857	VAL	O-C-N	5.05	126.97	121.87
3	I	50	THR	N-CA-C	-5.05	105.69	111.14
4	J	945	VAL	CA-C-N	5.05	127.98	120.31
4	J	945	VAL	C-N-CA	5.05	127.98	120.31
3	K	99	PRO	N-CA-CB	5.05	108.55	103.25
5	L	1380	LYS	CA-C-O	-5.05	112.51	119.12
2	N	630	GLY	CA-C-N	5.05	132.25	121.45
2	N	630	GLY	C-N-CA	5.05	132.25	121.45
8	d	302	ASN	N-CA-C	-5.05	105.21	113.19
8	g	340	ILE	CA-C-N	5.05	129.98	121.14
8	g	340	ILE	C-N-CA	5.05	129.98	121.14

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	h	273	TYR	O-C-N	-5.05	116.57	123.24
8	i	363	LYS	CA-C-N	5.05	127.41	120.39
8	i	363	LYS	C-N-CA	5.05	127.41	120.39
9	q	37	CYS	N-CA-C	5.05	117.17	111.11
2	H	299	LEU	N-CA-C	-5.05	106.63	112.89
5	L	433	PHE	CA-C-N	5.05	129.26	120.68
5	L	433	PHE	C-N-CA	5.05	129.26	120.68
2	R	10	ASN	CA-C-O	-5.05	115.52	120.82
8	c	39	GLU	N-CA-C	-5.05	106.96	113.02
8	e	175	GLN	N-CA-C	-5.05	107.62	112.97
8	m	417	ASN	CA-CB-CG	5.05	117.65	112.60
2	D	873	ARG	CD-NE-CZ	-5.05	117.33	124.40
2	D	878	ARG	CA-C-N	5.05	129.26	120.68
2	D	878	ARG	C-N-CA	5.05	129.26	120.68
1	G	631	ARG	N-CA-C	5.05	117.67	111.82
2	H	440	ASP	CA-CB-CG	5.05	117.65	112.60
4	J	732	ASP	CA-C-O	-5.05	112.49	119.05
2	T	27	ASP	O-C-N	5.05	128.33	121.97
7	V	657	ILE	CA-C-N	5.05	127.00	120.44
7	V	657	ILE	C-N-CA	5.05	127.00	120.44
7	X	612	ASP	N-CA-CB	5.05	117.63	110.16
8	b	115	HIS	CB-CG-ND1	5.05	130.27	122.70
8	c	206	ASP	CB-CA-C	5.05	118.03	109.50
8	f	411	GLU	CB-CA-C	-5.05	104.06	111.23
2	B	374	LYS	CG-CD-CE	5.04	122.90	111.30
2	B	566	LEU	N-CA-C	-5.04	105.83	112.94
6	P	114	ALA	N-CA-C	-5.04	105.97	111.82
2	S	32	PHE	N-CA-C	5.04	116.47	111.07
1	A	725	HIS	N-CA-CB	5.04	117.32	110.01
2	B	634	TRP	CB-CA-C	-5.04	102.42	110.79
2	H	617	LEU	O-C-N	-5.04	116.78	122.12
2	H	879	LEU	N-CA-CB	5.04	117.89	110.33
1	M	517	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
2	N	645	GLY	CA-C-N	5.04	124.65	119.56
2	N	645	GLY	C-N-CA	5.04	124.65	119.56
8	i	52	PHE	CA-CB-CG	-5.04	108.76	113.80
8	i	112	GLU	CB-CA-C	-5.04	102.90	111.02
8	i	376	LEU	N-CA-CB	5.04	118.49	110.57
8	j	194	ARG	CG-CD-NE	-5.04	100.90	112.00
1	A	453	GLY	CA-C-O	-5.04	113.70	119.65
1	C	345	ASN	OD1-CG-ND2	5.04	127.64	122.60
3	I	114	ASP	CA-CB-CG	-5.04	107.56	112.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	341	TRP	CB-CG-CD2	5.04	133.86	126.80
3	K	408	ASP	O-C-N	-5.04	116.07	122.27
5	L	38	THR	CA-C-N	5.04	127.04	120.28
5	L	38	THR	C-N-CA	5.04	127.04	120.28
2	N	597	THR	O-C-N	5.04	128.47	122.27
2	S	71	GLY	N-CA-C	-5.04	106.68	112.73
8	e	229	ASN	CA-CB-CG	-5.04	107.56	112.60
8	g	29	HIS	CE1-NE2-CD2	-5.04	103.96	109.00
8	j	281	SER	CA-C-O	5.04	125.46	119.56
8	j	373	VAL	N-CA-C	5.04	116.89	109.63
8	m	8	LEU	CA-C-O	-5.04	115.33	121.58
8	m	205	LEU	N-CA-CB	5.04	118.50	110.84
8	n	349	ILE	CA-CB-CG1	5.04	118.97	110.40
9	o	24	LEU	N-CA-C	5.04	116.77	111.28
2	D	511	SER	N-CA-C	-5.04	105.87	111.36
2	F	772	ASN	CA-CB-CG	-5.04	107.56	112.60
1	G	470	ASP	CA-C-N	5.04	131.17	121.54
1	G	470	ASP	C-N-CA	5.04	131.17	121.54
8	e	231	LEU	N-CA-C	-5.04	105.97	111.82
8	k	183	VAL	CG1-CB-CG2	5.04	121.89	110.80
8	k	289	THR	CA-CB-CG2	5.04	119.07	110.50
8	m	409	ARG	NE-CZ-NH1	-5.04	116.46	121.50
2	D	659	TYR	CA-C-O	-5.04	114.17	119.97
3	I	365	ARG	NE-CZ-NH1	5.04	126.54	121.50
5	L	543	GLY	N-CA-C	-5.04	107.85	114.95
5	L	1373	SER	N-CA-C	5.04	116.85	111.36
2	N	554	LEU	O-C-N	5.04	127.47	122.03
8	h	51	PHE	CA-C-N	-5.04	114.57	122.73
8	h	51	PHE	C-N-CA	-5.04	114.57	122.73
8	h	59	HIS	ND1-CE1-NE2	5.04	113.44	108.40
8	h	383	ASN	CA-C-O	5.04	125.79	119.59
8	i	296	ARG	N-CA-C	-5.04	106.72	112.92
8	k	36	ILE	CA-CB-CG1	5.04	118.97	110.40
1	A	661	ASN	CA-C-N	5.04	127.44	120.29
1	A	661	ASN	C-N-CA	5.04	127.44	120.29
2	D	613	ASN	CA-CB-CG	5.04	117.64	112.60
1	G	469	PRO	N-CA-CB	5.04	108.54	103.25
2	H	367	LEU	N-CA-C	-5.04	105.87	111.36
3	I	328	VAL	CB-CA-C	-5.04	102.91	111.37
6	P	114	ALA	CA-C-N	5.04	127.97	120.31
6	P	114	ALA	C-N-CA	5.04	127.97	120.31
7	V	607	ILE	CA-C-O	-5.04	115.51	120.85

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	i	55	ALA	N-CA-C	5.04	117.94	110.48
2	D	419	GLY	CA-C-O	5.04	125.44	119.50
2	D	679	ILE	N-CA-C	5.04	119.50	112.50
2	H	275	LYS	N-CA-CB	5.04	117.42	110.17
4	J	271	LEU	N-CA-C	5.04	117.50	111.71
5	L	373	GLN	CG-CD-NE2	5.04	123.95	116.40
2	N	319	VAL	CA-C-N	5.04	125.54	120.00
2	N	319	VAL	C-N-CA	5.04	125.54	120.00
8	b	102	ASN	OD1-CG-ND2	-5.04	117.56	122.60
8	f	341	ARG	NE-CZ-NH1	-5.04	116.46	121.50
8	h	250	ASN	CA-CB-CG	-5.04	107.56	112.60
9	t	31	MET	CB-CA-C	-5.04	102.43	110.79
1	A	411	HIS	CB-CG-ND1	5.03	130.25	122.70
1	A	852	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
2	H	318	LEU	N-CA-C	-5.03	100.08	110.80
4	J	472	VAL	O-C-N	5.03	128.72	121.82
4	J	595	VAL	N-CA-CB	5.03	117.01	110.57
5	L	178	GLN	CB-CA-C	-5.03	102.44	110.79
8	a	121	ILE	O-C-N	5.03	128.86	122.57
8	g	166	VAL	N-CA-C	-5.03	101.06	108.11
8	l	238	ALA	N-CA-C	5.03	117.66	111.82
8	m	65	VAL	N-CA-C	-5.03	100.96	108.46
8	n	165	LEU	CA-C-N	5.03	129.73	123.14
8	n	165	LEU	C-N-CA	5.03	129.73	123.14
1	G	480	GLU	N-CA-CB	5.03	117.91	110.56
8	i	359	ALA	O-C-N	5.03	128.99	123.25
8	n	169	TYR	N-CA-CB	5.03	117.89	110.49
2	D	536	ALA	CA-C-O	5.03	125.87	119.78
3	I	508	LYS	CA-C-O	5.03	125.55	119.31
3	I	570	GLN	CA-C-O	5.03	125.75	119.97
4	J	501	ARG	NE-CZ-NH1	-5.03	116.47	121.50
8	f	296	ARG	N-CA-C	-5.03	107.14	113.28
8	h	74	ILE	CA-CB-CG2	-5.03	101.95	110.50
8	m	90	ASN	N-CA-CB	5.03	118.99	110.49
9	t	30	ASP	CA-C-N	5.03	127.02	120.28
9	t	30	ASP	C-N-CA	5.03	127.02	120.28
1	C	559	ARG	CD-NE-CZ	-5.03	117.36	124.40
2	Q	81	LEU	N-CA-CB	5.03	117.51	110.12
7	X	668	ARG	CA-C-N	5.03	127.95	120.31
7	X	668	ARG	C-N-CA	5.03	127.95	120.31
8	d	109	SER	N-CA-C	5.03	119.47	113.23
2	B	628	SER	CA-C-O	5.03	125.40	120.17

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
1	E	429	GLN	N-CA-C	5.03	118.75	111.56
2	F	882	ASN	CA-C-O	-5.03	114.66	120.24
6	P	25	ASP	CB-CA-C	-5.03	102.22	110.72
8	e	386	SER	CA-C-N	5.03	127.95	120.31
8	e	386	SER	C-N-CA	5.03	127.95	120.31
8	k	209	ALA	CA-C-N	5.03	127.28	120.44
8	k	209	ALA	C-N-CA	5.03	127.28	120.44
8	m	256	LEU	CA-C-N	5.03	128.99	120.64
8	m	256	LEU	C-N-CA	5.03	128.99	120.64
1	A	238	VAL	N-CA-C	-5.03	101.25	108.89
2	D	336	ARG	CA-C-N	5.03	129.94	121.14
2	D	336	ARG	C-N-CA	5.03	129.94	121.14
1	E	486	ARG	CA-C-O	5.03	125.16	119.18
1	G	725	HIS	CE1-NE2-CD2	-5.03	103.97	109.00
4	J	301	MET	CA-C-N	5.03	127.85	120.71
4	J	301	MET	C-N-CA	5.03	127.85	120.71
2	N	858	GLN	OE1-CD-NE2	-5.03	117.58	122.60
8	c	320	ILE	CA-C-O	5.03	125.91	120.43
8	g	278	THR	CA-C-N	5.03	130.13	122.24
8	g	278	THR	C-N-CA	5.03	130.13	122.24
8	l	231	LEU	O-C-N	-5.03	115.69	122.43
8	l	395	TYR	CA-C-O	5.03	127.16	120.13
5	L	1473	THR	CA-C-O	5.02	126.78	121.05
2	Q	114	PHE	N-CA-C	5.02	117.49	111.71
8	e	100	ALA	N-CA-C	5.02	117.14	111.11
8	k	433	ASP	N-CA-CB	5.02	118.59	110.40
1	E	532	ASP	O-C-N	-5.02	116.34	122.22
3	K	189	ALA	CA-C-N	5.02	129.11	120.72
3	K	189	ALA	C-N-CA	5.02	129.11	120.72
3	K	393	ASN	CA-C-O	-5.02	115.53	120.70
8	b	120	ASP	CA-C-O	5.02	127.41	121.78
8	c	274	THR	CA-CB-CG2	5.02	119.04	110.50
8	f	94	SER	N-CA-CB	5.02	117.37	109.69
8	f	110	GLN	N-CA-C	-5.02	107.10	113.18
8	h	214	ALA	N-CA-CB	5.02	118.73	110.39
8	k	253	LEU	CA-C-O	-5.02	113.86	119.79
8	l	113	LYS	N-CA-C	-5.02	107.14	114.12
8	n	219	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
5	L	460	ILE	CA-C-O	-5.02	114.80	120.32
1	M	660	SER	N-CA-C	-5.02	106.93	113.16
7	W	656	GLU	CA-C-O	5.02	125.74	119.97
8	d	241	THR	CA-CB-OG1	5.02	117.13	109.60

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
8	f	364	SER	CA-C-O	-5.02	114.83	120.25
8	j	228	ILE	CA-CB-CG1	5.02	118.94	110.40
1	A	299	GLY	CA-C-N	5.02	127.42	120.29
1	A	299	GLY	C-N-CA	5.02	127.42	120.29
2	F	752	VAL	CA-CB-CG1	5.02	118.93	110.40
4	J	327	ILE	O-C-N	5.02	128.43	122.66
4	J	587	LEU	CA-C-N	5.02	127.42	120.29
4	J	587	LEU	C-N-CA	5.02	127.42	120.29
4	J	980	SER	CA-C-O	-5.02	115.10	120.42
8	e	106	SER	CA-C-N	5.02	126.59	120.22
8	e	106	SER	C-N-CA	5.02	126.59	120.22
8	e	180	HIS	O-C-N	5.02	127.86	122.34
8	e	286	ARG	NE-CZ-NH2	5.02	123.72	119.20
8	h	288	THR	N-CA-C	-5.02	101.69	109.72
8	l	347	ASN	CB-CG-OD1	-5.02	110.76	120.80
8	m	95	GLU	N-CA-CB	5.02	118.97	110.49
2	B	411	ARG	NE-CZ-NH2	5.02	123.72	119.20
2	D	789	ASP	O-C-N	-5.02	115.54	122.46
4	J	601	HIS	CE1-NE2-CD2	-5.02	103.98	109.00
4	J	720	ASN	CA-C-O	5.02	125.55	119.38
2	N	558	MET	CB-CA-C	-5.02	102.32	110.85
6	P	314	GLN	OE1-CD-NE2	5.02	127.62	122.60
2	S	93	ILE	O-C-N	-5.02	116.68	121.90
7	X	625	LEU	N-CA-C	-5.02	105.70	111.07
8	f	71	PRO	N-CA-CB	5.02	108.35	102.88
8	j	366	TYR	N-CA-C	-5.02	100.09	108.07
8	k	225	PHE	N-CA-C	-5.02	107.00	112.72
2	F	732	GLU	N-CA-C	-5.02	106.01	112.68
8	b	191	THR	CA-C-O	-5.02	113.87	119.79
8	e	415	LYS	CA-C-O	-5.02	115.91	121.28
8	h	343	ARG	CA-C-N	5.02	131.12	121.54
8	h	343	ARG	C-N-CA	5.02	131.12	121.54
2	B	405	THR	CA-CB-OG1	5.01	117.12	109.60
1	C	500	ASP	O-C-N	5.01	127.44	122.12
2	D	438	LEU	CB-CA-C	-5.01	99.71	111.09
2	D	586	ARG	CA-C-N	5.01	126.11	119.84
2	D	586	ARG	C-N-CA	5.01	126.11	119.84
1	E	486	ARG	NE-CZ-NH1	-5.01	116.49	121.50
2	H	276	VAL	N-CA-C	-5.01	100.35	107.77
3	I	139	VAL	N-CA-CB	5.01	116.99	110.57
4	J	372	LYS	N-CA-CB	5.01	118.58	110.40
4	J	902	HIS	ND1-CE1-NE2	5.01	113.41	108.40

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
3	K	486	ARG	CA-C-O	5.01	125.86	120.70
1	M	332	ARG	CA-C-N	5.01	127.41	120.29
1	M	332	ARG	C-N-CA	5.01	127.41	120.29
8	a	219	HIS	CA-CB-CG	-5.01	108.79	113.80
8	c	354	ALA	N-CA-C	-5.01	101.83	109.65
8	g	12	GLN	N-CA-CB	5.01	117.58	110.16
1	C	355	LEU	N-CA-C	-5.01	106.00	111.82
2	H	448	ALA	N-CA-CB	5.01	118.59	110.42
3	I	164	GLY	N-CA-C	-5.01	106.78	112.79
3	I	578	VAL	N-CA-C	-5.01	104.82	111.09
4	J	218	HIS	CG-CD2-NE2	5.01	112.21	107.20
2	S	48	GLU	CA-C-N	5.01	131.12	121.54
2	S	48	GLU	C-N-CA	5.01	131.12	121.54
1	A	325	PHE	CA-CB-CG	5.01	118.81	113.80
1	C	325	PHE	CA-CB-CG	-5.01	108.79	113.80
2	D	374	LYS	N-CA-C	5.01	117.63	111.82
1	G	764	PHE	CB-CA-C	-5.01	100.58	110.10
3	I	415	ASN	O-C-N	-5.01	118.50	123.46
3	K	271	ARG	NE-CZ-NH2	-5.01	114.69	119.20
2	R	49	ARG	N-CA-CB	5.01	118.96	110.49
8	b	218	LEU	N-CA-CB	5.01	117.25	110.59
8	c	427	ILE	CA-C-N	5.01	127.33	120.46
8	c	427	ILE	C-N-CA	5.01	127.33	120.46
8	g	317	TYR	N-CA-C	-5.01	103.43	110.50
8	h	40	PHE	CA-C-N	5.01	129.20	120.68
8	h	40	PHE	C-N-CA	5.01	129.20	120.68
8	l	324	ILE	N-CA-C	-5.01	101.20	108.97
1	A	334	MET	CG-SD-CE	-5.01	89.88	100.90
2	B	365	ARG	NE-CZ-NH2	5.01	123.71	119.20
2	B	623	ARG	CA-CB-CG	5.01	124.12	114.10
2	B	647	ILE	CA-C-O	-5.01	113.64	119.85
1	C	656	ASN	CA-C-N	5.01	127.53	120.42
1	C	656	ASN	C-N-CA	5.01	127.53	120.42
2	D	865	THR	CA-CB-CG2	-5.01	101.98	110.50
2	D	878	ARG	N-CA-C	-5.01	106.34	112.90
4	J	955	VAL	N-CA-C	5.01	115.23	110.42
8	k	75	HIS	CE1-NE2-CD2	-5.01	103.99	109.00
9	r	22	SER	O-C-N	5.01	127.43	122.12
2	B	634	TRP	CD2-CE2-CZ2	-5.01	117.39	122.40
1	C	393	TRP	CB-CG-CD1	-5.01	119.39	126.90
3	K	146	GLN	O-C-N	-5.01	115.86	122.42
3	K	637	ILE	CA-C-O	-5.01	114.52	120.78

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Mol	Chain	Res	Type	Atoms	Z	Observed(^{o})	Ideal(^{o})
5	L	1556	VAL	CB-CA-C	-5.01	105.46	112.02
1	M	436	GLN	OE1-CD-NE2	5.01	127.61	122.60
8	e	115	HIS	ND1-CE1-NE2	5.01	113.41	108.40
8	h	2	PRO	CA-C-N	5.01	131.10	121.54
8	h	2	PRO	C-N-CA	5.01	131.10	121.54
8	m	237	SER	CA-C-N	5.01	129.19	120.68
8	m	237	SER	C-N-CA	5.01	129.19	120.68
8	n	131	SER	N-CA-C	5.01	116.53	108.32
1	E	628	ILE	CA-C-N	-5.00	115.33	122.84
1	E	628	ILE	C-N-CA	-5.00	115.33	122.84
3	I	324	ASP	N-CA-CB	5.00	118.04	110.28
8	h	239	SER	CA-C-N	5.00	131.00	123.04
8	h	239	SER	C-N-CA	5.00	131.00	123.04
8	j	59	HIS	O-C-N	5.00	128.78	123.42
8	k	131	SER	N-CA-CB	5.00	118.95	110.49
9	t	46	ASN	CA-C-O	-5.00	115.51	119.71
2	B	772	ASN	CA-C-O	-5.00	115.12	120.42
1	E	463	GLY	N-CA-C	-5.00	101.32	113.18
3	I	604	ASP	N-CA-CB	5.00	118.86	110.85
4	J	416	ILE	N-CA-CB	5.00	115.98	110.53
2	N	508	VAL	N-CA-CB	5.00	119.83	110.77
7	V	633	PHE	N-CA-C	5.00	116.42	111.07
8	c	284	SER	N-CA-C	-5.00	105.89	112.94
8	f	114	ILE	CA-C-N	5.00	127.91	120.31
8	f	114	ILE	C-N-CA	5.00	127.91	120.31
8	g	190	LEU	CA-C-N	5.00	129.19	120.68
8	g	190	LEU	C-N-CA	5.00	129.19	120.68
8	h	21	PHE	N-CA-C	-5.00	105.91	111.36
8	n	189	LEU	CA-C-O	5.00	125.53	119.38
2	B	432	TRP	CA-CB-CG	5.00	123.10	113.60
2	D	657	SER	O-C-N	5.00	128.42	122.27
1	G	644	MET	CA-C-O	5.00	125.72	120.42
4	J	758	GLN	CA-C-O	5.00	125.72	120.42
3	K	258	SER	CA-C-N	5.00	128.57	121.42
3	K	258	SER	C-N-CA	5.00	128.57	121.42
5	L	587	PHE	N-CA-CB	5.00	118.94	110.49
1	M	736	CYS	N-CA-C	-5.00	106.87	113.12
2	N	755	ASP	CA-CB-CG	5.00	117.60	112.60
8	l	434	GLU	CA-C-N	5.00	129.89	121.14
8	l	434	GLU	C-N-CA	5.00	129.89	121.14

There are no chirality outliers.

All (473) planarity outliers are listed below:

Mol	Chain	Res	Type	Group
1	A	240	ARG	Sidechain
1	A	326	TYR	Sidechain
1	A	361	ARG	Sidechain
1	A	377	TYR	Sidechain
1	A	386	TYR	Sidechain
1	A	392	ARG	Sidechain
1	A	406	PHE	Sidechain
1	A	431	TYR	Sidechain
1	A	460	ARG	Sidechain
1	A	493	TYR	Sidechain
1	A	549	ARG	Sidechain
1	A	559	ARG	Sidechain
1	A	617	PHE	Sidechain
1	A	646	TYR	Sidechain
1	A	747	PHE	Sidechain
1	A	845	TYR	Sidechain
1	A	859	TYR	Sidechain
2	B	271	GLU	Peptide
2	B	300	HIS	Sidechain
2	B	311	SER	Peptide
2	B	314	ARG	Sidechain
2	B	336	ARG	Sidechain
2	B	434	TYR	Sidechain
2	B	442	TYR	Sidechain
2	B	463	TYR	Sidechain
2	B	473	PHE	Sidechain
2	B	480	ARG	Sidechain
2	B	522	PHE	Sidechain
2	B	563	ARG	Sidechain
2	B	564	TYR	Sidechain
2	B	586	ARG	Sidechain
2	B	592	TYR	Sidechain
2	B	619	ARG	Sidechain
2	B	653	ARG	Sidechain
2	B	674	TYR	Sidechain
2	B	792	TYR	Sidechain
2	B	831	ARG	Sidechain
2	B	843	ARG	Sidechain
2	B	853	TYR	Sidechain
2	B	860	PHE	Sidechain
2	B	873	ARG	Sidechain
1	C	222	TYR	Sidechain

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Mol	Chain	Res	Type	Group
1	C	231	TYR	Sidechain
1	C	361	ARG	Sidechain
1	C	386	TYR	Sidechain
1	C	395	TYR	Sidechain
1	C	403	TYR	Sidechain
1	C	472	LYS	Peptide
1	C	480	GLU	Peptide
1	C	491	TYR	Sidechain
1	C	513	ARG	Sidechain
1	C	518	TYR	Sidechain
1	C	519	PHE	Sidechain
1	C	529	HIS	Sidechain
1	C	646	TYR	Sidechain
1	C	652	ARG	Sidechain
1	C	675	PHE	Sidechain
1	C	694	TYR	Sidechain
1	C	724	HIS	Sidechain
1	C	764	PHE	Sidechain
1	C	859	TYR	Sidechain
2	D	255	TYR	Sidechain
2	D	266	LYS	Peptide
2	D	313	ASP	Peptide
2	D	390	ARG	Sidechain
2	D	411	ARG	Sidechain
2	D	430	TYR	Sidechain
2	D	562	ARG	Sidechain
2	D	663	PHE	Sidechain
2	D	668	ARG	Sidechain
2	D	750	HIS	Sidechain
2	D	812	ARG	Sidechain
2	D	873	ARG	Sidechain
1	E	282	PHE	Peptide
1	E	296	ARG	Sidechain
1	E	314	ARG	Sidechain
1	E	395	TYR	Sidechain
1	E	396	ARG	Sidechain
1	E	431	TYR	Peptide,Sidechain
1	E	432	THR	Peptide
1	E	433	ILE	Peptide
1	E	460	ARG	Sidechain
1	E	515	ILE	Peptide
1	E	520	LEU	Peptide

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Mol	Chain	Res	Type	Group
1	E	526	PHE	Sidechain
1	E	649	HIS	Sidechain
1	E	684	ARG	Sidechain
1	E	694	TYR	Sidechain
1	E	714	SER	Peptide
2	F	251	ARG	Sidechain
2	F	274	TYR	Sidechain
2	F	313	ASP	Peptide
2	F	314	ARG	Sidechain
2	F	323	PHE	Sidechain
2	F	328	HIS	Sidechain
2	F	364	ARG	Sidechain
2	F	411	ARG	Sidechain
2	F	463	TYR	Sidechain
2	F	574	ARG	Sidechain
2	F	592	TYR	Sidechain
2	F	659	TYR	Sidechain
2	F	719	TYR	Sidechain
2	F	720	TYR	Sidechain
2	F	762	LEU	Peptide
2	F	802	ARG	Sidechain
2	F	843	ARG	Sidechain
2	F	853	TYR	Sidechain
2	F	885	TYR	Sidechain
1	G	222	TYR	Sidechain
1	G	231	TYR	Sidechain
1	G	240	ARG	Sidechain
1	G	282	PHE	Sidechain
1	G	289	HIS	Sidechain
1	G	326	TYR	Sidechain
1	G	348	GLU	Peptide
1	G	365	TYR	Sidechain
1	G	403	TYR	Sidechain
1	G	431	TYR	Sidechain
1	G	441	PHE	Sidechain
1	G	476	TYR	Sidechain
1	G	559	ARG	Sidechain
1	G	631	ARG	Sidechain
1	G	645	PHE	Sidechain
1	G	698	PHE	Sidechain
1	G	763	ARG	Sidechain
1	G	867	TYR	Sidechain

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Mol	Chain	Res	Type	Group
2	H	255	TYR	Sidechain
2	H	271	GLU	Peptide
2	H	274	TYR	Sidechain
2	H	313	ASP	Peptide
2	H	314	ARG	Sidechain
2	H	335	TYR	Sidechain
2	H	364	ARG	Sidechain
2	H	423	TYR	Sidechain
2	H	442	TYR	Sidechain
2	H	445	PHE	Sidechain
2	H	463	TYR	Sidechain
2	H	473	PHE	Sidechain
2	H	522	PHE	Peptide
2	H	537	TYR	Sidechain
2	H	562	ARG	Sidechain
2	H	563	ARG	Sidechain
2	H	592	TYR	Sidechain
2	H	594	HIS	Sidechain
2	H	641	TYR	Sidechain
2	H	674	TYR	Sidechain
2	H	719	TYR	Sidechain
2	H	720	TYR	Sidechain
2	H	760	ARG	Sidechain
2	H	792	TYR	Sidechain
2	H	831	ARG	Sidechain
2	H	860	PHE	Sidechain
2	H	878	ARG	Sidechain
3	I	111	PHE	Sidechain
3	I	12	TYR	Sidechain
3	I	169	ARG	Sidechain
3	I	180	HIS	Sidechain
3	I	184	TYR	Sidechain
3	I	200	TYR	Sidechain
3	I	260	ARG	Sidechain
3	I	267	TYR	Sidechain
3	I	460	TRP	Peptide
3	I	52	TYR	Sidechain
3	I	529	TYR	Sidechain
3	I	530	TYR	Sidechain
3	I	55	PHE	Sidechain
3	I	560	HIS	Sidechain
3	I	572	PHE	Peptide

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Mol	Chain	Res	Type	Group
3	I	576	LYS	Peptide
4	J	209	ARG	Sidechain
4	J	220	TYR	Sidechain
4	J	226	PRO	Peptide
4	J	253	TYR	Sidechain
4	J	307	ARG	Peptide,Mainchain
4	J	424	ARG	Peptide
4	J	437	TYR	Sidechain
4	J	468	TYR	Sidechain
4	J	503	PHE	Sidechain
4	J	591	PHE	Sidechain
4	J	687	TYR	Sidechain
4	J	703	TYR	Sidechain
4	J	719	ARG	Sidechain
4	J	816	TYR	Sidechain
4	J	877	ARG	Sidechain
4	J	899	ARG	Sidechain
4	J	902	HIS	Sidechain
4	J	927	ARG	Sidechain
4	J	935	ARG	Sidechain
4	J	982	PHE	Sidechain
3	K	124	TYR	Sidechain
3	K	169	ARG	Sidechain
3	K	184	TYR	Sidechain
3	K	278	PHE	Sidechain
3	K	361	TYR	Sidechain
3	K	396	PHE	Sidechain
3	K	442	ARG	Sidechain
3	K	456	TYR	Sidechain
3	K	460	TRP	Peptide,Mainchain
3	K	466	PHE	Sidechain
3	K	515	ARG	Sidechain
3	K	52	TYR	Sidechain
3	K	529	TYR	Sidechain
3	K	530	TYR	Sidechain
3	K	557	ARG	Sidechain
3	K	572	PHE	Peptide
3	K	62	TYR	Sidechain
3	K	647	ARG	Sidechain
5	L	1385	TYR	Sidechain
5	L	1406	GLU	Peptide
5	L	1447	TYR	Sidechain

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Mol	Chain	Res	Type	Group
5	L	1465	TYR	Sidechain
5	L	1503	TYR	Sidechain
5	L	1533	VAL	Peptide
5	L	1539	SER	Peptide
5	L	1540	VAL	Peptide
5	L	1582	VAL	Peptide
5	L	1589	TYR	Sidechain
5	L	1595	TYR	Sidechain
5	L	161	ASP	Sidechain
5	L	1626	PHE	Sidechain
5	L	1662	TYR	Sidechain
5	L	1673	LEU	Peptide
5	L	1674	VAL	Peptide
5	L	326	TYR	Sidechain
5	L	347	LEU	Peptide
5	L	385	TYR	Peptide,Sidechain
5	L	404	TYR	Sidechain
5	L	410	ARG	Sidechain
5	L	413	HIS	Sidechain
5	L	504	TYR	Sidechain
5	L	512	ASN	Peptide
5	L	513	SER	Peptide
5	L	537	TYR	Sidechain
5	L	560	TYR	Sidechain
5	L	582	ASP	Peptide
5	L	585	PRO	Peptide
5	L	97	TYR	Sidechain
1	M	222	TYR	Sidechain
1	M	240	ARG	Sidechain
1	M	302	TYR	Sidechain
1	M	361	ARG	Sidechain
1	M	371	ALA	Peptide
1	M	377	TYR	Sidechain
1	M	386	TYR	Sidechain
1	M	406	PHE	Sidechain
1	M	428	ASP	Peptide
1	M	455	TYR	Sidechain
1	M	470	ASP	Peptide
1	M	473	GLU	Peptide
1	M	479	LYS	Peptide
1	M	493	TYR	Sidechain
1	M	501	PHE	Sidechain

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Mol	Chain	Res	Type	Group
1	M	695	TYR	Sidechain
1	M	827	PHE	Sidechain
1	M	831	PHE	Sidechain
1	M	859	TYR	Sidechain
2	N	251	ARG	Sidechain
2	N	306	TYR	Sidechain
2	N	335	TYR	Sidechain
2	N	364	ARG	Sidechain
2	N	376	ARG	Sidechain
2	N	386	HIS	Sidechain
2	N	430	TYR	Sidechain
2	N	431	ARG	Sidechain
2	N	442	TYR	Sidechain
2	N	463	TYR	Sidechain
2	N	466	ARG	Sidechain
2	N	543	TYR	Sidechain
2	N	552	TYR	Sidechain
2	N	592	TYR	Sidechain
2	N	653	ARG	Sidechain
2	N	712	HIS	Sidechain
2	N	784	PHE	Sidechain
2	N	792	TYR	Sidechain
2	N	802	ARG	Sidechain
2	N	839	ILE	Peptide
2	N	878	ARG	Sidechain
2	N	884	HIS	Sidechain
2	N	885	TYR	Sidechain
2	O	64	ARG	Sidechain
2	O	67	ARG	Sidechain
6	P	188	TYR	Sidechain
6	P	198	TYR	Sidechain
6	P	206	ARG	Sidechain
6	P	218	TYR	Sidechain
6	P	290	ARG	Sidechain
6	P	306	TYR	Sidechain
6	P	335	ARG	Sidechain
6	P	362	TYR	Sidechain
2	Q	114	PHE	Sidechain
2	Q	34	TYR	Sidechain
2	Q	37	ARG	Sidechain
2	Q	64	ARG	Sidechain
2	Q	79	ARG	Sidechain

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Mol	Chain	Res	Type	Group
2	R	19	ARG	Sidechain
2	R	34	TYR	Sidechain
2	R	95	TYR	Sidechain
2	S	34	TYR	Sidechain
2	S	67	ARG	Sidechain
2	S	78	HIS	Sidechain
2	T	79	ARG	Sidechain
7	U	620	ARG	Sidechain
7	V	661	ARG	Sidechain
7	V	668	ARG	Sidechain
7	W	620	ARG	Sidechain
7	X	633	PHE	Sidechain
7	X	661	ARG	Sidechain
7	X	666	ARG	Sidechain
8	a	124	ARG	Sidechain
8	a	161	TYR	Sidechain
8	a	194	ARG	Sidechain
8	a	21	PHE	Sidechain
8	a	217	ARG	Sidechain
8	a	219	HIS	Sidechain
8	a	245	TYR	Sidechain
8	a	273	TYR	Sidechain
8	a	343	ARG	Sidechain
8	a	348	PHE	Sidechain
8	a	47	ARG	Sidechain
8	a	53	TYR	Sidechain
8	b	194	ARG	Sidechain
8	b	217	ARG	Sidechain
8	b	245	TYR	Sidechain
8	b	248	TYR	Sidechain
8	b	29	HIS	Sidechain
8	b	295	ARG	Sidechain
8	b	315	HIS	Sidechain
8	b	341	ARG	Sidechain
8	b	362	ARG	Sidechain
8	b	51	PHE	Sidechain
8	b	72	ARG	Sidechain
8	b	82	TYR	Sidechain
8	b	92	TYR	Sidechain
8	c	124	ARG	Sidechain
8	c	152	TYR	Sidechain
8	c	160	ARG	Sidechain

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Mol	Chain	Res	Type	Group
8	c	186	TYR	Sidechain
8	c	248	TYR	Sidechain
8	c	265	ARG	Sidechain
8	c	362	ARG	Sidechain
8	c	393	ARG	Sidechain
8	c	401	ARG	Sidechain
8	c	82	TYR	Sidechain
8	d	273	TYR	Sidechain
8	d	317	TYR	Sidechain
8	d	341	ARG	Sidechain
8	d	343	ARG	Sidechain
8	d	362	ARG	Sidechain
8	d	372	ARG	Sidechain
8	d	390	ARG	Sidechain
8	d	395	TYR	Sidechain
8	d	60	TYR	Sidechain
8	e	217	ARG	Sidechain
8	e	244	ARG	Sidechain
8	e	317	TYR	Sidechain
8	e	399	ARG	Sidechain
8	e	401	ARG	Sidechain
8	e	418	PHE	Sidechain
8	e	425	ARG	Sidechain
8	e	47	ARG	Sidechain
8	e	53	TYR	Sidechain
8	e	60	TYR	Sidechain
8	e	72	ARG	Sidechain
8	e	82	TYR	Sidechain
8	e	96	HIS	Sidechain
8	f	135	PHE	Sidechain
8	f	186	TYR	Sidechain
8	f	245	TYR	Sidechain
8	f	273	TYR	Sidechain
8	f	309	ARG	Sidechain
8	f	311	ARG	Sidechain
8	f	315	HIS	Sidechain
8	f	395	TYR	Sidechain
8	f	404	PHE	Sidechain
8	f	47	ARG	Sidechain
8	f	82	TYR	Sidechain
8	f	92	TYR	Sidechain
8	g	152	TYR	Sidechain

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Mol	Chain	Res	Type	Group
8	g	161	TYR	Sidechain
8	g	273	TYR	Sidechain
8	g	339	ARG	Sidechain
8	g	343	ARG	Sidechain
8	g	348	PHE	Sidechain
8	g	362	ARG	Sidechain
8	g	388	PHE	Sidechain
8	g	395	TYR	Sidechain
8	g	53	TYR	Sidechain
8	g	60	TYR	Sidechain
8	g	82	TYR	Sidechain
8	h	160	ARG	Sidechain
8	h	161	TYR	Sidechain
8	h	180	HIS	Sidechain
8	h	248	TYR	Sidechain
8	h	339	ARG	Sidechain
8	h	343	ARG	Sidechain
8	h	393	ARG	Sidechain
8	h	409	ARG	Sidechain
8	h	436	HIS	Sidechain
8	h	47	ARG	Sidechain
8	h	52	PHE	Sidechain
8	h	60	TYR	Sidechain
8	h	92	TYR	Sidechain
8	i	248	TYR	Sidechain
8	i	273	TYR	Sidechain
8	i	309	ARG	Sidechain
8	i	339	ARG	Sidechain
8	i	366	TYR	Sidechain
8	i	401	ARG	Sidechain
8	i	92	TYR	Sidechain
8	j	124	ARG	Sidechain
8	j	139	HIS	Sidechain
8	j	161	TYR	Sidechain
8	j	180	HIS	Sidechain
8	j	267	HIS	Sidechain
8	j	286	ARG	Sidechain
8	j	315	HIS	Sidechain
8	j	339	ARG	Sidechain
8	j	348	PHE	Sidechain
8	j	362	ARG	Sidechain
8	j	60	TYR	Sidechain

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Mol	Chain	Res	Type	Group
8	j	63	ARG	Sidechain
8	j	82	TYR	Sidechain
8	j	86	TYR	Sidechain
8	j	92	TYR	Sidechain
8	k	156	ARG	Sidechain
8	k	265	ARG	Sidechain
8	k	286	ARG	Sidechain
8	k	3	ARG	Sidechain
8	k	317	TYR	Sidechain
8	k	334	HIS	Sidechain
8	k	366	TYR	Sidechain
8	k	388	PHE	Sidechain
8	k	393	ARG	Sidechain
8	k	408	PHE	Sidechain
8	k	53	TYR	Sidechain
8	k	72	ARG	Sidechain
8	k	92	TYR	Sidechain
8	l	139	HIS	Sidechain
8	l	152	TYR	Sidechain
8	l	161	TYR	Sidechain
8	l	21	PHE	Sidechain
8	l	217	ARG	Sidechain
8	l	244	ARG	Sidechain
8	l	339	ARG	Sidechain
8	l	425	ARG	Sidechain
8	l	47	ARG	Sidechain
8	l	82	TYR	Sidechain
8	m	139	HIS	Sidechain
8	m	161	TYR	Sidechain
8	m	169	TYR	Sidechain
8	m	212	ARG	Sidechain
8	m	296	ARG	Sidechain
8	m	311	ARG	Sidechain
8	m	317	TYR	Sidechain
8	m	334	HIS	Sidechain
8	m	390	ARG	Sidechain
8	m	399	ARG	Sidechain
8	m	401	ARG	Sidechain
8	m	408	PHE	Sidechain
8	m	86	TYR	Sidechain
8	m	92	TYR	Sidechain
8	n	317	TYR	Sidechain

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Mol	Chain	Res	Type	Group
8	n	343	ARG	Sidechain
8	n	348	PHE	Sidechain
8	n	362	ARG	Sidechain
8	n	395	TYR	Sidechain
8	n	418	PHE	Sidechain
8	n	82	TYR	Sidechain
8	n	86	TYR	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	A	4519	0	4476	17	0
1	C	4519	0	4476	11	0
1	E	4508	0	4466	16	0
1	G	4519	0	4476	16	0
1	M	4503	0	4456	20	0
2	B	5118	0	5103	11	0
2	D	5118	0	5103	17	0
2	F	5118	0	5103	18	0
2	H	5118	0	5103	14	0
2	N	5118	0	5103	17	0
2	O	753	0	779	5	0
2	Q	878	0	903	2	0
2	R	794	0	814	1	0
2	S	878	0	903	8	0
2	T	753	0	779	0	0
3	I	4635	0	4670	41	0
3	K	4635	0	4670	35	0
4	J	5252	0	5318	49	0
5	L	6303	0	6356	18	0
6	P	2892	0	2854	4	0
7	U	634	0	635	4	0
7	V	634	0	635	1	0
7	W	634	0	635	2	0
7	X	634	0	635	2	0
8	a	3479	0	3428	6	0
8	b	3479	0	3428	8	0

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Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
8	c	3479	0	3428	13	0
8	d	3479	0	3428	10	0
8	e	3479	0	3428	7	0
8	f	3479	0	3428	9	0
8	g	3479	0	3428	9	0
8	h	3479	0	3428	18	0
8	i	3479	0	3428	14	0
8	j	3479	0	3428	18	0
8	k	3479	0	3428	33	0
8	l	3479	0	3428	16	0
8	m	3479	0	3428	10	0
8	n	3479	0	3428	10	0
9	o	403	0	426	1	0
9	p	429	0	446	1	0
9	q	432	0	457	2	0
9	r	454	0	477	1	0
9	s	451	0	476	2	0
9	t	446	0	471	1	0
All	All	129788	0	129196	437	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 (437) 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)
4:J:242:TRP:CZ3	4:J:242:TRP:CH2	1.79	1.66
4:J:242:TRP:CH2	4:J:242:TRP:CZ2	1.81	1.63
4:J:242:TRP:CZ3	4:J:242:TRP:CE3	1.77	1.62
4:J:242:TRP:CE3	4:J:242:TRP:CD2	1.90	1.58
4:J:242:TRP:CZ2	4:J:242:TRP:CE2	1.95	1.54
8:k:435:TYR:CE2	8:k:435:TYR:CD2	1.98	1.50
8:k:435:TYR:CE2	8:k:435:TYR:CZ	1.99	1.48
4:J:242:TRP:CD2	4:J:242:TRP:CE2	1.80	1.46
8:k:435:TYR:CG	8:k:435:TYR:CD1	2.02	1.46
8:k:435:TYR:CD1	8:k:435:TYR:CE1	2.04	1.44
8:k:435:TYR:CD2	8:k:435:TYR:CG	2.08	1.41
8:k:435:TYR:CZ	8:k:435:TYR:CE1	2.07	1.40
3:I:16:ILE:CG1	4:J:242:TRP:CE2	2.29	1.16
3:K:515:ARG:CZ	8:k:435:TYR:CD1	2.32	1.13
3:I:16:ILE:CG1	4:J:242:TRP:CZ2	2.31	1.13

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
3:I:16:ILE:CG1	4:J:242:TRP:CD2	2.31	1.12
3:K:515:ARG:CZ	8:k:435:TYR:CE2	2.32	1.12
3:I:16:ILE:CD1	4:J:242:TRP:CD2	2.31	1.11
3:I:16:ILE:CD1	4:J:242:TRP:CE2	2.34	1.10
3:I:16:ILE:HG12	4:J:242:TRP:CE2	1.87	1.10
3:I:16:ILE:CG1	4:J:242:TRP:CH2	2.35	1.09
3:K:515:ARG:CZ	8:k:435:TYR:CE1	2.34	1.09
3:K:515:ARG:CZ	3:K:515:ARG:NH2	2.15	1.09
3:I:16:ILE:CD1	4:J:242:TRP:CZ2	2.36	1.09
3:K:515:ARG:CZ	8:k:435:TYR:CD2	2.36	1.08
3:I:16:ILE:CG1	4:J:242:TRP:CE3	2.37	1.07
3:I:16:ILE:CG1	4:J:242:TRP:CZ3	2.36	1.07
3:K:515:ARG:CZ	8:k:435:TYR:CZ	2.38	1.07
3:I:16:ILE:CD1	4:J:242:TRP:CE3	2.37	1.06
3:K:515:ARG:NH2	8:k:435:TYR:CZ	2.23	1.06
3:K:515:ARG:CZ	8:k:435:TYR:CG	2.38	1.06
3:I:16:ILE:CD1	4:J:242:TRP:CH2	2.39	1.05
3:K:515:ARG:NH2	8:k:435:TYR:CD1	2.24	1.05
3:K:515:ARG:NH2	8:k:435:TYR:CE1	2.25	1.05
3:K:515:ARG:NH2	8:k:435:TYR:CE2	2.26	1.04
3:K:515:ARG:NH2	8:k:435:TYR:CG	2.26	1.04
3:I:16:ILE:CD1	4:J:242:TRP:CZ3	2.40	1.03
3:K:515:ARG:NH2	8:k:435:TYR:CD2	2.26	1.03
3:I:16:ILE:HG13	4:J:242:TRP:CD2	2.00	0.96
3:I:16:ILE:HG13	4:J:242:TRP:CE3	2.01	0.93
3:I:16:ILE:HD11	4:J:242:TRP:CD2	2.05	0.91
3:K:515:ARG:NE	8:k:435:TYR:CZ	2.41	0.89
3:I:16:ILE:HD13	4:J:242:TRP:CZ2	2.07	0.87
4:J:492:ARG:HE	4:J:492:ARG:HA	1.41	0.85
3:K:515:ARG:NH1	8:k:435:TYR:CG	2.45	0.85
3:I:16:ILE:HG12	4:J:242:TRP:CZ2	2.13	0.83
3:I:16:ILE:HD12	4:J:242:TRP:CZ3	2.12	0.83
3:I:16:ILE:HD12	4:J:242:TRP:CE3	2.17	0.79
3:I:16:ILE:HD11	4:J:242:TRP:CE2	2.19	0.78
2:H:872:LEU:HD23	2:H:872:LEU:H	1.53	0.73
3:K:515:ARG:NE	8:k:435:TYR:CE1	2.57	0.72
8:a:249:MET:HA	8:a:249:MET:HE2	1.72	0.72
3:I:16:ILE:HD13	4:J:242:TRP:CH2	2.25	0.71
8:h:72:ARG:HH21	8:h:73:VAL:HG12	1.55	0.70
8:j:362:ARG:H	8:j:362:ARG:HE	1.37	0.70
8:l:349:ILE:HD12	8:l:351:TRP:CE2	2.28	0.69

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:318:LEU:H	2:B:318:LEU:HD22	1.59	0.67
8:j:249:MET:HE2	8:j:249:MET:HA	1.77	0.66
3:I:45:LEU:HD13	3:I:122:ILE:HG22	1.78	0.65
3:K:515:ARG:NH1	8:k:435:TYR:CD2	2.64	0.65
8:j:362:ARG:H	8:j:362:ARG:NE	1.95	0.65
2:N:760:ARG:HE	2:N:760:ARG:HA	1.61	0.65
3:I:16:ILE:CG2	4:J:242:TRP:CZ3	2.80	0.64
3:I:16:ILE:CB	4:J:242:TRP:CH2	2.81	0.64
2:B:258:GLN:HE21	2:B:258:GLN:HA	1.63	0.63
2:D:465:LEU:HD23	2:D:465:LEU:H	1.63	0.63
8:i:277:THR:HG22	8:i:279:ASP:H	1.61	0.63
8:j:203:VAL:HG22	8:j:269:LEU:HD12	1.81	0.63
8:c:9:GLN:HE21	8:c:15:ASN:HA	1.64	0.62
8:n:201:CYS:SG	8:n:257:ILE:HD12	2.41	0.60
8:b:181:VAL:HG13	8:b:184:GLN:HB2	1.83	0.60
8:b:315:HIS:CD2	8:b:436:HIS:CE1	2.89	0.60
2:F:555:LEU:HD23	2:F:555:LEU:H	1.66	0.60
2:S:90:ARG:HD2	2:S:91:TRP:H	1.68	0.59
2:N:683:HIS:HB3	2:N:704:HIS:CE1	2.38	0.59
2:Q:92:SER:HB2	9:q:47:PRO:HG3	1.85	0.59
8:n:338:GLN:HE22	8:n:341:ARG:HH21	1.51	0.58
1:C:311:HIS:CD2	5:L:184:MET:HB3	2.38	0.58
8:h:151:SER:HA	8:h:154:LEU:HD12	1.86	0.58
8:h:268:PHE:HB2	8:h:384:ILE:HD12	1.85	0.58
8:j:104:TRP:CD2	8:j:190:LEU:HD13	2.40	0.57
1:M:685:MET:HE3	1:M:753:VAL:HB	1.87	0.57
8:k:137:LEU:HB2	8:k:168:THR:HG22	1.87	0.57
3:I:16:ILE:HA	4:J:242:TRP:CH2	2.41	0.56
2:D:857:VAL:HG13	2:D:858:GLN:HE21	1.71	0.56
4:J:272:TRP:CG	4:J:279:LYS:HZ2	2.23	0.56
8:a:175:GLN:HA	8:a:184:GLN:HE22	1.69	0.56
1:E:857:ILE:HA	1:E:860:ARG:HE	1.71	0.55
8:k:340:ILE:HG21	8:k:356:ILE:HD13	1.87	0.55
2:D:808:ARG:HH21	2:D:812:ARG:HH22	1.54	0.55
8:j:220:ILE:HD12	8:j:227:GLN:HE21	1.70	0.55
8:i:303:VAL:HG12	8:i:377:MET:HE1	1.87	0.55
8:j:210:LEU:HD22	8:j:228:ILE:HG23	1.88	0.55
1:E:241:GLN:CB	1:E:271:THR:HA	2.36	0.55
3:I:265:PRO:HG2	3:I:268:ILE:HD12	1.90	0.54
2:N:661:ARG:HE	2:N:661:ARG:HA	1.73	0.54
8:k:404:PHE:H	8:k:407:GLN:HE21	1.54	0.54

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:c:249:MET:HE2	8:c:249:MET:HA	1.90	0.54
2:H:432:TRP:CH2	2:H:447:VAL:HG21	2.43	0.54
1:C:607:LEU:HD13	1:C:744:LEU:HD11	1.89	0.54
4:J:939:ARG:HB3	4:J:941:LYS:H	1.72	0.54
1:C:552:ALA:HB2	8:d:338:GLN:HE21	1.71	0.53
2:F:465:LEU:HD23	2:F:465:LEU:H	1.73	0.53
2:H:594:HIS:HB3	3:I:646:LEU:HD13	1.89	0.53
8:n:13:CYS:HA	8:n:16:GLN:HE21	1.73	0.53
1:M:845:TYR:CD1	1:M:858:ILE:HD12	2.43	0.53
1:E:241:GLN:HB2	1:E:271:THR:HA	1.90	0.53
2:F:253:LEU:HD12	2:F:254:LEU:HD22	1.91	0.53
8:l:349:ILE:HD12	8:l:351:TRP:CZ2	2.44	0.53
3:K:57:GLU:HA	3:K:60:GLU:HG2	1.89	0.52
8:m:339:ARG:HH21	8:m:343:ARG:HH21	1.56	0.52
1:M:320:LEU:HD12	1:M:320:LEU:H	1.75	0.52
2:S:37:ARG:HB3	7:U:630:ILE:HD11	1.92	0.52
3:I:16:ILE:CB	4:J:242:TRP:CZ3	2.93	0.52
8:n:235:ILE:HD12	8:n:271:THR:HG21	1.92	0.52
8:n:367:LEU:HB3	8:n:368:PRO:HD3	1.92	0.52
1:M:285:GLY:HA2	2:N:406:GLY:H	1.74	0.52
4:J:720:ASN:HB3	4:J:726:ALA:HB2	1.92	0.51
1:M:657:VAL:HG23	1:M:682:ARG:HD2	1.90	0.51
2:Q:117:LEU:HD21	2:S:9:PRO:HB2	1.93	0.51
8:j:238:ALA:HB1	8:j:325:GLN:HE22	1.75	0.51
9:q:41:CYS:HA	9:q:45:ILE:HG22	1.92	0.51
8:c:166:VAL:HG13	8:c:200:ASP:H	1.76	0.51
1:G:393:TRP:CZ2	1:G:408:VAL:HG11	2.45	0.51
3:I:16:ILE:HG23	4:J:242:TRP:CZ3	2.46	0.51
1:M:857:ILE:HG13	1:M:860:ARG:HH21	1.76	0.51
5:L:348:LEU:H	5:L:386:ILE:HG21	1.76	0.51
2:N:271:GLU:H	2:N:298:TRP:CD1	2.29	0.51
8:k:189:LEU:HB3	8:k:421:LEU:HD13	1.93	0.51
1:A:391:GLU:HA	1:A:394:ILE:HG22	1.93	0.50
2:B:679:ILE:O	2:B:683:HIS:CD2	2.64	0.50
8:h:348:PHE:CE2	8:h:356:ILE:HD11	2.46	0.50
2:D:574:ARG:HB2	8:d:251:ASN:HD21	1.76	0.50
5:L:1612:LEU:HD12	5:L:1612:LEU:H	1.77	0.50
1:A:707:ILE:HB	1:A:724:HIS:CE1	2.46	0.50
2:F:337:LEU:HD23	2:F:376:ARG:HH22	1.76	0.50
8:h:17:ILE:HG22	8:h:229:ASN:HD22	1.77	0.50
2:R:49:ARG:HH21	2:S:66:ARG:NH2	2.09	0.50

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
7:U:629:MET:HE1	7:V:629:MET:HB2	1.92	0.50
2:H:343:SER:CB	2:O:79:ARG:HD2	2.42	0.50
8:h:44:GLY:HA3	8:h:365:PRO:HG3	1.94	0.50
1:E:857:ILE:HG13	1:E:857:ILE:O	2.11	0.49
3:I:452:LEU:HD23	3:I:452:LEU:H	1.78	0.49
5:L:94:LEU:HD22	9:p:17:VAL:HG13	1.94	0.49
8:c:8:LEU:HD23	8:c:153:LEU:HD13	1.94	0.49
1:A:331:LEU:HA	1:A:334:MET:HE3	1.93	0.49
2:F:574:ARG:HG2	8:f:251:ASN:HD21	1.77	0.49
1:E:302:TYR:CD1	1:E:334:MET:HE3	2.47	0.49
6:P:267:LEU:HB2	6:P:269:MET:HE3	1.95	0.49
1:G:359:HIS:CE1	1:G:363:PHE:CE2	3.01	0.49
1:A:477:THR:HG21	1:A:486:ARG:HB3	1.95	0.49
3:K:196:LEU:HD23	3:K:207:GLN:HE21	1.77	0.49
8:l:98:GLY:CA	8:l:110:GLN:HE22	2.25	0.49
6:P:259:GLU:HG2	6:P:263:GLN:HE21	1.78	0.49
1:G:691:ASN:HD21	1:G:864:ASN:HA	1.78	0.48
1:M:531:MET:HE2	1:M:531:MET:HA	1.95	0.48
2:B:521:LEU:HD23	2:B:521:LEU:H	1.78	0.48
2:D:624:LEU:HD23	2:D:624:LEU:H	1.78	0.48
4:J:275:SER:HB2	4:J:375:LEU:HD22	1.95	0.48
9:t:21:ILE:HA	9:t:24:LEU:HD12	1.94	0.48
1:A:529:HIS:CE1	8:a:3:ARG:HG3	2.49	0.48
1:M:645:PHE:CZ	1:M:649:HIS:CE1	3.02	0.48
2:O:19:ARG:HE	2:O:19:ARG:HA	1.78	0.48
1:G:531:MET:HE3	1:G:652:ARG:HH11	1.79	0.48
4:J:261:VAL:HG21	4:J:266:VAL:CG1	2.44	0.48
3:K:520:MET:HE2	3:K:618:PHE:CD1	2.48	0.48
1:M:746:ILE:O	1:M:746:ILE:HD12	2.14	0.48
8:k:102:ASN:H	8:k:145:THR:HG22	1.79	0.48
1:M:327:ILE:HG22	1:M:327:ILE:O	2.14	0.48
3:I:16:ILE:CG1	3:I:16:ILE:CD1	2.92	0.48
4:J:261:VAL:HG21	4:J:266:VAL:HG13	1.95	0.47
8:c:231:LEU:H	8:c:231:LEU:HD12	1.78	0.47
8:i:367:LEU:HB2	8:i:368:PRO:HD3	1.95	0.47
1:G:845:TYR:CD2	1:G:861:LEU:HD22	2.49	0.47
8:c:290:VAL:HA	8:c:293:VAL:HG22	1.96	0.47
8:e:334:HIS:CD2	8:e:334:HIS:H	2.32	0.47
1:E:411:HIS:CD2	1:E:411:HIS:H	2.32	0.47
2:H:575:HIS:CD2	8:h:2:PRO:HD2	2.50	0.47
8:f:362:ARG:H	8:f:362:ARG:HE	1.62	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:g:246:PRO:HB2	8:g:362:ARG:HH11	1.79	0.47
3:K:517:GLN:HB3	3:K:592:PHE:CZ	2.49	0.47
1:M:390:LEU:HD23	1:M:476:TYR:CE1	2.49	0.47
2:N:638:SER:HA	2:N:663:PHE:CE2	2.49	0.47
8:c:8:LEU:CD2	8:c:153:LEU:HD13	2.44	0.47
8:i:87:ASN:HB2	8:i:91:ILE:H	1.79	0.47
8:i:235:ILE:HG22	8:i:273:TYR:CD2	2.49	0.47
8:l:398:LEU:HA	8:l:401:ARG:HE	1.80	0.47
8:l:141:ILE:HG22	8:l:141:ILE:O	2.14	0.47
2:D:721:ILE:HA	2:D:878:ARG:HH12	1.78	0.47
2:F:314:ARG:HH12	1:G:368:ASP:H	1.61	0.47
2:B:548:LEU:HD13	2:B:554:LEU:HB3	1.98	0.46
1:C:400:ASN:HD21	2:D:404:LYS:HE2	1.80	0.46
2:D:659:TYR:HA	2:D:662:VAL:HG12	1.97	0.46
3:I:496:ALA:HA	3:I:499:MET:CG	2.45	0.46
3:K:354:LEU:HA	3:K:357:ILE:HG22	1.96	0.46
5:L:1674:VAL:HA	5:L:1682:LEU:HD11	1.97	0.46
8:b:71:PRO:HB2	8:b:75:HIS:CE1	2.49	0.46
1:G:517:HIS:CD2	1:G:523:GLN:HG2	2.51	0.46
2:F:562:ARG:HH21	2:F:733:LEU:HD23	1.81	0.46
8:a:256:LEU:HD22	8:a:321:LEU:HD21	1.98	0.46
8:e:34:GLU:CD	8:e:35:GLY:H	2.23	0.46
8:i:218:LEU:HD23	8:i:218:LEU:HA	1.84	0.46
5:L:1576:ARG:HD3	5:L:1577:ASN:H	1.81	0.46
8:j:316:CYS:H	8:j:436:HIS:CE1	2.33	0.46
1:M:455:TYR:CE1	1:M:494:ALA:HA	2.51	0.46
8:h:17:ILE:CG2	8:h:229:ASN:HD22	2.29	0.46
1:C:526:PHE:HB3	1:C:530:PHE:CE2	2.50	0.46
1:C:653:LEU:HD23	1:C:754:CYS:HB3	1.98	0.46
2:N:309:GLN:HB3	2:N:390:ARG:HH21	1.81	0.46
2:N:836:GLN:O	2:N:840:PRO:HD2	2.15	0.46
8:j:381:HIS:CD2	8:j:383:ASN:ND2	2.84	0.46
2:H:745:HIS:HA	2:H:748:ALA:HB3	1.97	0.45
4:J:938:LEU:O	4:J:939:ARG:HB2	2.16	0.45
8:h:175:GLN:H	8:h:208:THR:HG23	1.80	0.45
1:A:546:ILE:HG22	1:A:550:LEU:CD1	2.46	0.45
2:F:323:PHE:HB2	2:F:421:VAL:HG22	1.98	0.45
1:G:356:SER:HA	1:G:440:SER:HA	1.97	0.45
8:f:59:HIS:CD2	8:f:60:TYR:H	2.35	0.45
8:l:316:CYS:HB3	8:l:347:ASN:HB3	1.98	0.45
1:A:546:ILE:HG22	1:A:550:LEU:HD12	1.99	0.45

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:514:SER:HB2	2:N:515:PRO:HD3	1.99	0.45
1:A:216:LEU:HD23	1:A:250:ASN:ND2	2.31	0.45
2:B:557:HIS:HA	2:B:560:ALA:HB3	1.97	0.45
3:K:531:LEU:O	3:K:535:VAL:HG23	2.17	0.45
3:K:551:ARG:HE	3:K:551:ARG:HA	1.82	0.45
8:b:29:HIS:CE1	8:b:244:ARG:HD2	2.51	0.45
8:d:225:PHE:CD1	8:d:228:ILE:HG21	2.52	0.45
8:m:196:THR:HG21	8:m:428:VAL:HG21	1.99	0.45
2:F:320:GLY:HA2	2:F:395:LEU:HD22	1.99	0.45
4:J:822:LEU:HD13	4:J:937:LEU:HD12	1.98	0.45
2:O:34:TYR:CE2	9:o:56:GLU:HG2	2.51	0.45
1:A:650:VAL:HG11	1:A:689:VAL:HG11	1.99	0.45
1:E:473:GLU:HG2	1:E:486:ARG:HH22	1.82	0.45
1:G:867:TYR:CE1	8:g:355:SER:HB2	2.51	0.45
8:b:18:GLY:HA2	8:b:21:PHE:HB3	1.98	0.45
1:A:302:TYR:CE2	1:A:306:ILE:HD11	2.51	0.45
1:A:326:TYR:CE1	5:L:246:LEU:HD12	2.52	0.45
1:A:513:ARG:HD2	1:A:513:ARG:C	2.42	0.45
1:G:311:HIS:CD2	1:G:315:GLN:HE22	2.34	0.45
2:F:806:GLU:HA	2:F:809:LYS:HG2	1.99	0.45
8:f:209:ALA:HA	8:f:212:ARG:HG2	1.97	0.44
2:S:100:LEU:HB3	9:s:27:THR:HA	1.99	0.44
7:U:647:TYR:CE2	7:W:645:GLU:HG2	2.52	0.44
8:f:394:GLN:HA	8:f:397:LYS:HE2	1.99	0.44
8:g:141:ILE:HG22	8:g:141:ILE:O	2.17	0.44
8:i:290:VAL:HA	8:i:293:VAL:HG22	2.00	0.44
8:m:285:VAL:HA	8:m:371:HIS:CE1	2.52	0.44
5:L:377:SER:HA	5:L:406:THR:HG23	2.00	0.44
8:d:66:LEU:HD13	8:d:91:ILE:HG22	2.00	0.44
8:g:102:ASN:HA	8:g:145:THR:HG23	1.99	0.44
1:C:708:LEU:HA	1:C:711:ASN:OD1	2.17	0.44
1:G:867:TYR:CE1	8:g:355:SER:CB	3.01	0.44
2:F:693:MET:HE3	2:F:835:PHE:CE2	2.52	0.44
1:A:250:ASN:H	1:A:256:LYS:HE2	1.82	0.44
2:H:459:TRP:HA	2:H:459:TRP:CE3	2.52	0.44
3:K:133:PHE:O	3:K:136:ILE:HG22	2.18	0.44
8:l:277:THR:HG22	8:l:279:ASP:H	1.83	0.44
1:G:661:ASN:HD22	1:G:682:ARG:NH1	2.16	0.44
1:A:556:LEU:HD21	8:b:339:ARG:HB3	1.98	0.44
2:B:552:TYR:HB3	2:B:647:ILE:HD11	1.99	0.44
2:F:655:CYS:HA	2:F:754:LEU:CD1	2.48	0.44

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:M:247:VAL:HG21	1:M:259:VAL:HG11	2.00	0.44
8:h:425:ARG:CZ	8:h:425:ARG:HA	2.48	0.44
1:A:477:THR:CG2	1:A:486:ARG:HB3	2.48	0.43
7:X:666:ARG:O	7:X:669:ALA:HB3	2.18	0.43
8:h:195:LEU:HD13	8:h:202:VAL:HG11	2.00	0.43
8:m:59:HIS:CD2	8:m:60:TYR:H	2.36	0.43
1:M:220:LEU:HD22	1:M:262:ILE:HG21	2.00	0.43
8:j:166:VAL:HG13	8:j:200:ASP:H	1.82	0.43
1:C:759:ASN:HA	1:C:762:GLN:HE21	1.83	0.43
1:E:241:GLN:HB3	1:E:271:THR:HA	1.99	0.43
8:h:137:LEU:N	8:h:137:LEU:HD12	2.33	0.43
8:i:195:LEU:HD22	8:i:202:VAL:HG12	2.00	0.43
8:k:317:TYR:CD1	8:k:346:ALA:HB1	2.53	0.43
2:D:713:PHE:HA	2:D:716:GLN:HE21	1.84	0.43
5:L:1530:THR:HG21	8:l:155:GLU:O	2.18	0.43
2:O:80:LYS:HG2	2:O:84:GLN:HE21	1.83	0.43
8:h:103:ASN:HD22	8:h:105:ALA:H	1.67	0.43
1:E:374:LEU:HD23	1:E:374:LEU:H	1.83	0.43
2:F:253:LEU:HD11	2:F:366:LEU:HD13	2.01	0.43
8:i:281:SER:O	8:i:285:VAL:HG13	2.18	0.43
8:k:126:ALA:HA	8:k:129:SER:HB2	2.00	0.43
3:I:29:GLN:NE2	3:I:29:GLN:HA	2.34	0.43
2:B:495:VAL:HG12	2:B:495:VAL:O	2.18	0.43
2:H:493:HIS:CD2	2:H:498:ASP:HA	2.53	0.43
2:H:676:LEU:HA	2:H:679:ILE:HG22	2.00	0.43
2:N:839:ILE:HB	2:N:840:PRO:CD	2.49	0.43
8:h:78:LEU:C	8:h:78:LEU:HD12	2.43	0.43
8:l:18:GLY:HA2	8:l:21:PHE:HB3	2.00	0.43
1:C:391:GLU:HG3	1:C:395:TYR:CE2	2.54	0.43
5:L:605:LEU:HD21	5:L:1382:ILE:HA	2.01	0.43
8:h:29:HIS:CE1	8:h:244:ARG:HD2	2.54	0.43
2:F:555:LEU:H	2:F:555:LEU:CD2	2.32	0.43
5:L:398:LEU:HA	5:L:401:VAL:HG12	2.01	0.43
4:J:871:LYS:HB3	4:J:872:GLY:H	1.71	0.42
7:W:643:LEU:HD21	7:X:641:GLN:HG3	2.01	0.42
8:l:202:VAL:HG21	8:l:268:PHE:CE1	2.54	0.42
1:C:707:ILE:HG21	1:C:728:PHE:HB2	2.00	0.42
2:D:574:ARG:CB	8:d:251:ASN:HD21	2.30	0.42
2:F:307:THR:HA	2:F:310:ARG:HB2	2.01	0.42
3:K:88:ALA:HB2	3:K:182:VAL:HG21	2.01	0.42
5:L:1537:SER:HB3	8:l:265:ARG:HH22	1.84	0.42

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:N:562:ARG:HH12	2:N:734:TRP:CD1	2.37	0.42
8:c:202:VAL:HG21	8:c:268:PHE:CD1	2.55	0.42
8:i:346:ALA:HB3	8:i:348:PHE:CZ	2.54	0.42
8:n:167:GLN:HA	8:n:201:CYS:O	2.19	0.42
2:D:595:ASN:HD22	2:D:595:ASN:H	1.67	0.42
3:K:300:LEU:HD23	3:K:300:LEU:H	1.84	0.42
8:g:114:ILE:HG22	8:g:114:ILE:O	2.19	0.42
8:m:231:LEU:N	8:m:231:LEU:HD12	2.34	0.42
1:G:459:VAL:HG11	1:G:468:CYS:SG	2.59	0.42
3:I:154:LEU:HD12	3:I:154:LEU:H	1.85	0.42
2:N:625:LEU:H	2:N:636:VAL:HG13	1.84	0.42
8:h:317:TYR:CD1	8:h:346:ALA:HB1	2.54	0.42
3:K:453:GLY:HA3	3:K:475:ASN:HD21	1.84	0.42
6:P:140:LEU:O	6:P:342:GLY:HA3	2.19	0.42
8:e:25:LEU:HA	8:e:28:GLU:HG2	2.01	0.42
3:I:7:LEU:CD1	4:J:391:LEU:HD23	2.50	0.42
3:K:458:VAL:HG22	3:K:459:GLN:N	2.35	0.42
5:L:1555:PHE:CE1	5:L:1559:ILE:HG13	2.55	0.42
8:j:277:THR:HG22	8:j:279:ASP:H	1.84	0.42
2:D:365:ARG:HG3	2:D:369:TRP:CZ2	2.55	0.42
2:D:581:LYS:O	2:D:585:VAL:HG23	2.20	0.42
3:K:650:TYR:HA	3:K:654:TYR:HB2	2.02	0.42
5:L:573:TYR:CE2	5:L:574:VAL:HG22	2.55	0.42
8:c:289:THR:HG21	8:c:291:LEU:HD12	2.01	0.42
8:f:25:LEU:O	8:f:29:HIS:CG	2.72	0.42
2:N:676:LEU:HD21	2:N:711:VAL:HA	2.02	0.42
2:D:679:ILE:O	2:D:683:HIS:CD2	2.73	0.42
2:H:680:TRP:CH2	2:H:684:MET:HE3	2.55	0.42
3:I:44:ARG:HA	3:I:44:ARG:HE	1.85	0.42
2:S:19:ARG:HE	9:s:32:GLU:HB2	1.85	0.42
8:i:232:VAL:O	8:i:235:ILE:HG12	2.19	0.42
8:i:297:LEU:HD12	8:i:322:ASN:HB3	2.02	0.42
8:j:366:TYR:CD2	8:j:368:PRO:HD2	2.55	0.42
8:l:183:VAL:HG22	8:l:183:VAL:O	2.20	0.42
1:A:318:LEU:HD13	1:A:323:LEU:CD2	2.50	0.41
1:E:286:GLN:HG2	1:E:403:TYR:HB3	2.02	0.41
3:K:39:THR:HA	3:K:42:LEU:HB2	2.01	0.41
3:K:193:HIS:CE1	3:K:304:GLU:HG3	2.55	0.41
1:M:556:LEU:HD13	8:n:339:ARG:HE	1.86	0.41
6:P:267:LEU:CB	6:P:269:MET:HE3	2.50	0.41
8:d:343:ARG:HD3	8:d:343:ARG:HA	1.89	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
2:B:628:SER:HA	2:B:629:PRO:HD3	1.87	0.41
4:J:887:HIS:CD2	8:j:355:SER:HB3	2.55	0.41
4:J:887:HIS:CG	8:j:355:SER:HB3	2.55	0.41
5:L:362:ILE:HD11	5:L:445:ARG:HG2	2.02	0.41
8:a:274:THR:OG1	8:a:297:LEU:HD23	2.20	0.41
8:d:194:ARG:HA	8:d:198:ASN:HD22	1.85	0.41
8:d:324:ILE:HD12	8:d:325:GLN:H	1.84	0.41
8:i:4:GLU:CG	8:i:129:SER:HB2	2.50	0.41
8:k:301:LYS:H	8:k:302:ASN:HD22	1.68	0.41
1:M:707:ILE:HG22	1:M:710:LYS:HE3	2.02	0.41
8:d:435:TYR:C	8:d:435:TYR:CD2	2.98	0.41
8:k:53:TYR:CE2	8:k:54:GLN:O	2.74	0.41
8:k:290:VAL:HG22	8:k:290:VAL:O	2.20	0.41
8:n:69:LEU:HA	8:n:98:GLY:HA2	2.03	0.41
1:E:535:GLU:HA	1:E:535:GLU:OE1	2.20	0.41
2:F:574:ARG:HH21	2:F:674:TYR:HA	1.84	0.41
1:G:685:MET:SD	1:G:750:LEU:HD22	2.60	0.41
3:I:445:PRO:HG2	3:I:446:THR:H	1.85	0.41
8:b:17:ILE:HG22	8:b:229:ASN:HA	2.03	0.41
8:j:103:ASN:HD21	8:j:105:ALA:HB3	1.85	0.41
8:j:210:LEU:CD2	8:j:228:ILE:HG23	2.49	0.41
1:G:318:LEU:HD23	1:G:318:LEU:H	1.85	0.41
5:L:70:ASN:HD21	2:O:26:ALA:HA	1.85	0.41
8:b:384:ILE:H	8:b:384:ILE:HG12	1.68	0.41
4:J:492:ARG:HA	4:J:492:ARG:NE	2.20	0.41
1:M:746:ILE:HG21	1:M:841:LYS:HD3	2.02	0.41
2:S:110:LYS:HB2	9:r:44:GLY:HA3	2.02	0.41
8:l:98:GLY:HA3	8:l:110:GLN:HE22	1.84	0.41
1:A:657:VAL:HG22	1:A:758:THR:HA	2.03	0.41
2:F:465:LEU:H	2:F:465:LEU:CD2	2.33	0.41
1:G:427:TRP:HA	1:G:623:TRP:CE2	2.55	0.41
5:L:350:GLU:HA	5:L:353:LEU:HD12	2.02	0.41
2:N:306:TYR:CE1	2:N:384:VAL:HG23	2.55	0.41
2:N:432:TRP:HE1	2:N:438:LEU:HD21	1.86	0.41
8:i:175:GLN:HA	8:i:184:GLN:HE22	1.86	0.41
8:l:141:ILE:CD1	8:l:191:THR:HG21	2.51	0.41
2:D:499:GLN:HE22	2:D:504:LYS:HD3	1.85	0.41
1:E:270:SER:O	1:E:274:ARG:HB2	2.21	0.41
2:F:710:MET:HE2	2:F:853:TYR:CG	2.56	0.41
2:H:458:LEU:HA	2:H:649:THR:HA	2.03	0.41
2:H:580:LEU:HD13	2:H:599:ILE:HG21	2.03	0.41

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
8:j:425:ARG:CZ	8:j:425:ARG:HA	2.51	0.41
8:l:25:LEU:O	8:l:29:HIS:CD2	2.73	0.41
2:B:720:TYR:HD2	2:B:882:ASN:HD21	1.68	0.41
1:E:279:ASN:HD21	1:E:289:HIS:HA	1.86	0.41
1:E:556:LEU:HA	8:f:339:ARG:HH21	1.85	0.41
2:H:492:LEU:HA	2:H:495:VAL:HG22	2.03	0.41
3:I:362:LEU:HD12	3:I:481:LEU:HD13	2.03	0.41
3:I:647:ARG:HA	3:I:650:TYR:CZ	2.56	0.41
3:K:154:LEU:HA	3:K:157:VAL:HG12	2.02	0.41
2:N:446:PHE:CE2	2:N:482:VAL:HG21	2.56	0.41
8:a:203:VAL:HG22	8:a:269:LEU:HD12	2.02	0.41
8:c:200:ASP:O	8:c:267:HIS:CD2	2.74	0.41
8:c:290:VAL:HG22	8:c:290:VAL:O	2.21	0.41
8:e:364:SER:C	8:e:366:TYR:H	2.29	0.41
8:f:104:TRP:CD2	8:f:190:LEU:HD13	2.56	0.41
8:k:385:SER:O	8:k:389:GLU:HG3	2.21	0.41
8:m:345:LEU:HD23	8:m:345:LEU:HA	1.98	0.41
8:n:301:LYS:HD3	8:n:301:LYS:HA	1.93	0.41
1:C:390:LEU:HB3	1:C:406:PHE:CE1	2.56	0.41
8:e:238:ALA:HB1	8:e:376:LEU:HD22	2.03	0.41
8:f:34:GLU:HB3	8:f:84:ASN:HB2	2.03	0.41
8:h:104:TRP:CZ2	8:h:108:PHE:CD1	3.09	0.41
2:D:289:ILE:HG22	2:D:364:ARG:HH12	1.86	0.40
1:E:744:LEU:HD12	1:E:745:LYS:HG3	2.02	0.40
2:H:693:MET:HE1	2:H:835:PHE:CD2	2.56	0.40
3:K:504:LEU:HD12	3:K:504:LEU:HA	1.90	0.40
1:M:327:ILE:O	1:M:327:ILE:CG2	2.68	0.40
8:c:123:ASP:HA	8:c:126:ALA:HB3	2.02	0.40
8:d:298:LEU:HD22	8:d:346:ALA:HB2	2.03	0.40
8:m:96:HIS:O	8:m:96:HIS:CD2	2.75	0.40
4:J:972:LYS:HA	4:J:975:ILE:HG12	2.02	0.40
1:M:529:HIS:HE1	8:m:3:ARG:HG3	1.87	0.40
2:N:467:LYS:HA	2:N:470:ILE:HG12	2.03	0.40
8:e:80:SER:C	8:e:82:TYR:H	2.30	0.40
8:l:217:ARG:HH12	8:l:274:THR:HA	1.86	0.40
8:n:67:LEU:HD13	8:n:67:LEU:HA	1.94	0.40
4:J:763:GLN:C	4:J:765:TYR:H	2.29	0.40
5:L:1613:MET:HG2	5:L:1617:HIS:CE1	2.57	0.40
2:S:37:ARG:HH12	7:U:630:ILE:HG12	1.86	0.40
8:h:63:ARG:HH12	8:h:129:SER:HB2	1.86	0.40
2:B:318:LEU:H	2:B:318:LEU:CD2	2.31	0.40

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:E:616:SER:HA	1:E:641:PHE:CD2	2.56	0.40
3:I:152:GLN:HE22	3:I:265:PRO:HA	1.86	0.40
1:M:657:VAL:HG23	1:M:682:ARG:CD	2.51	0.40
8:c:297:LEU:HD11	8:c:375:GLY:HA3	2.03	0.40
8:g:17:ILE:HG22	8:g:229:ASN:HA	2.03	0.40
8:g:228:ILE:H	8:g:228:ILE:HG22	1.60	0.40
8:m:311:ARG:HH22	8:m:385:SER:HB2	1.87	0.40
8:m:385:SER:HA	8:m:388:PHE:CD2	2.56	0.40
2:D:260:ILE:HG12	2:D:261:ASP:H	1.86	0.40
3:K:453:GLY:CA	3:K:475:ASN:HD21	2.35	0.40
8:e:290:VAL:HG11	8:e:333:VAL:HA	2.03	0.40
8:g:12:GLN:HB2	8:g:73:VAL:HG11	2.04	0.40

There are no symmetry-related clashes.

5.3 Torsion angles (i)

5.3.1 Protein backbone (i)

There are no protein backbone outliers to report in this entry.

5.3.2 Protein sidechains (i)

There are no protein residues with a non-rotameric sidechain to report in this entry.

5.3.3 RNA (i)

There are no RNA molecules in this entry.

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

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

5.5 Carbohydrates (i)

There are no oligosaccharides in this entry.

5.6 Ligand geometry

There are no ligands in this entry.

5.7 Other polymers

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

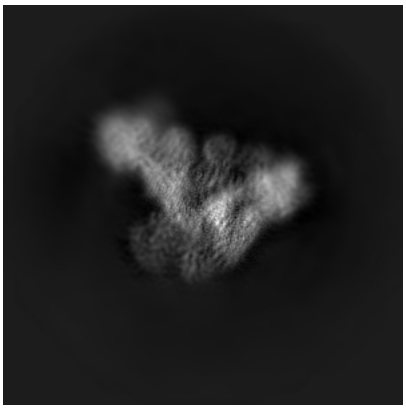
6 Map visualisation

This section contains visualisations of the EMDB entry EMD-52730. These allow visual inspection of the internal detail of the map and identification of artifacts.

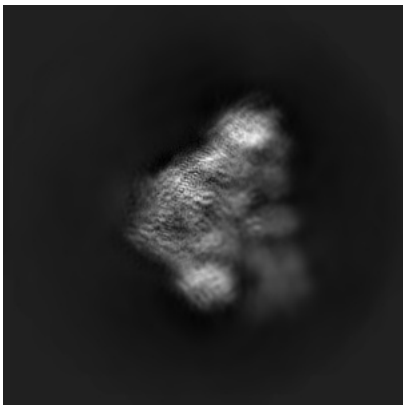
Images derived from a raw map, generated by summing the deposited half-maps, are presented below the corresponding image components of the primary map to allow further visual inspection and comparison with those of the primary map.

6.1 Orthogonal projections

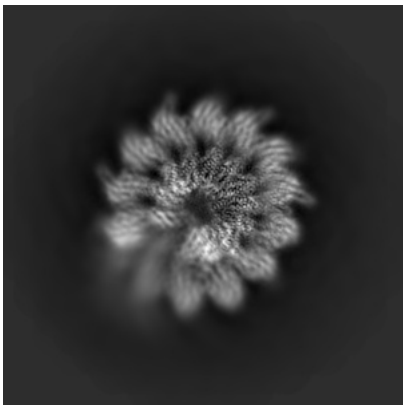
6.1.1 Primary map



X

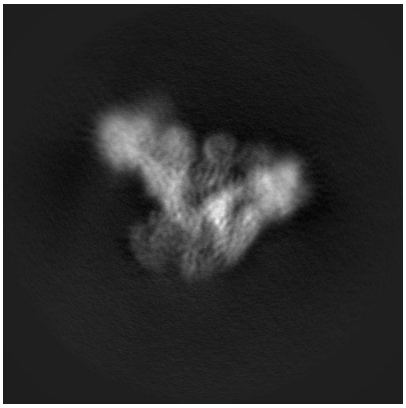


Y

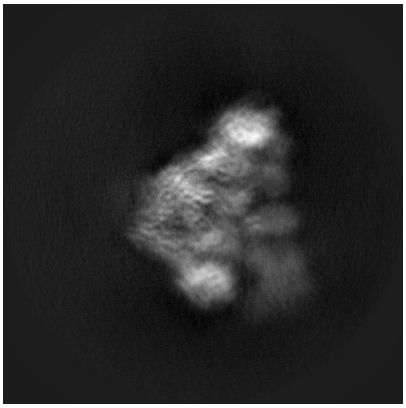


Z

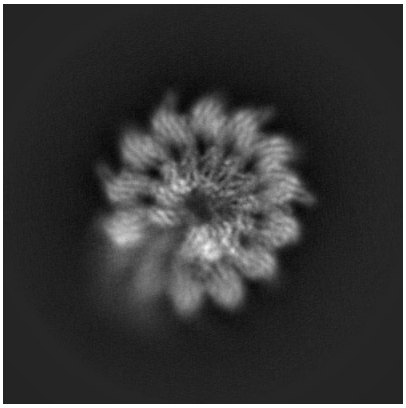
6.1.2 Raw map



X



Y

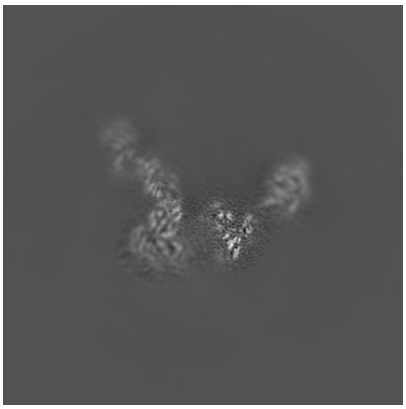


Z

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

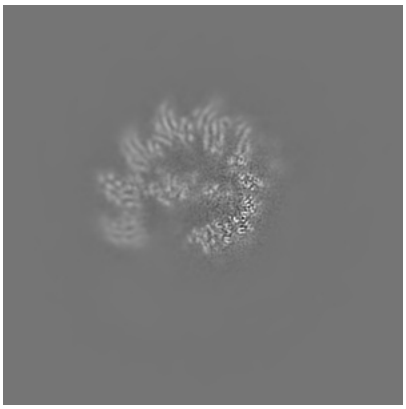
6.2 Central slices (i)

6.2.1 Primary map



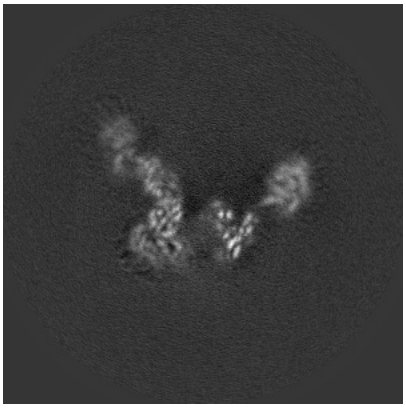
X Index: 192

Y Index: 192

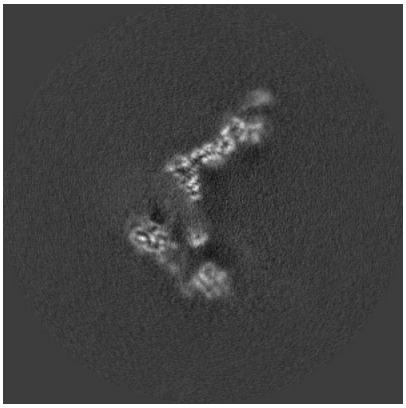


Z Index: 192

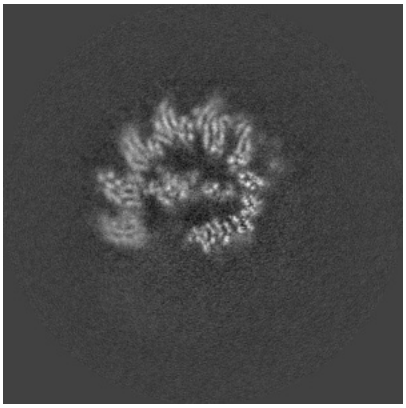
6.2.2 Raw map



X Index: 192



Y Index: 192



Z Index: 192

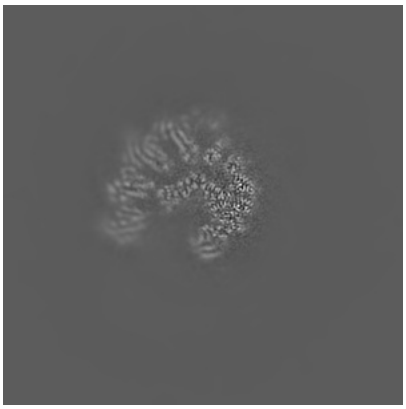
The images above show central slices of the map in three orthogonal directions.

6.3 Largest variance slices (i)

6.3.1 Primary map

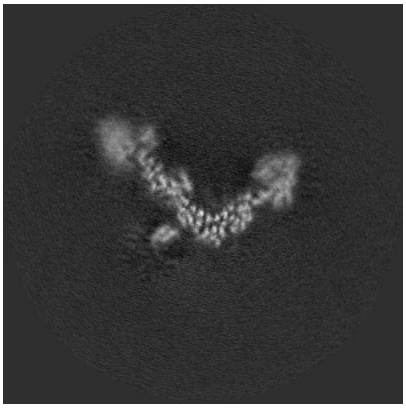
X Index: 225

Y Index: 212

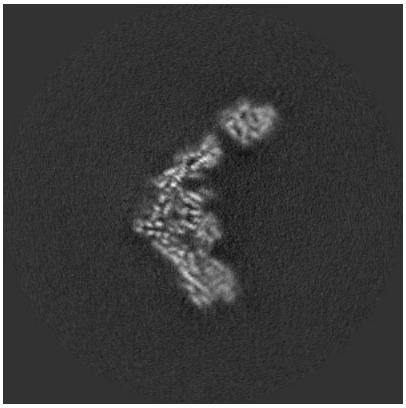


Z Index: 181

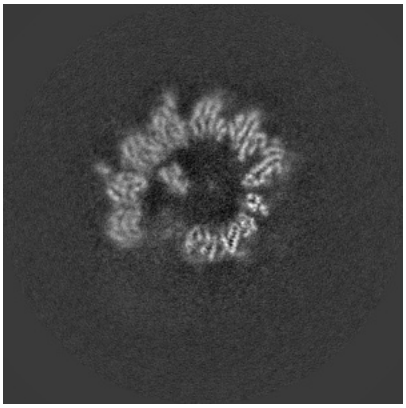
6.3.2 Raw map



X Index: 225



Y Index: 211

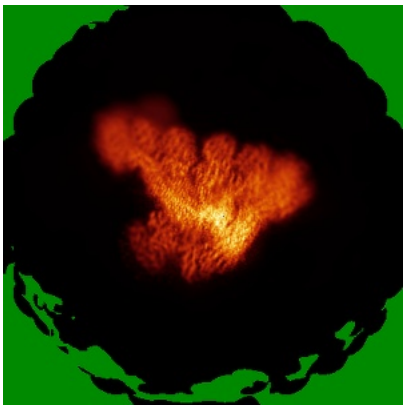


Z Index: 203

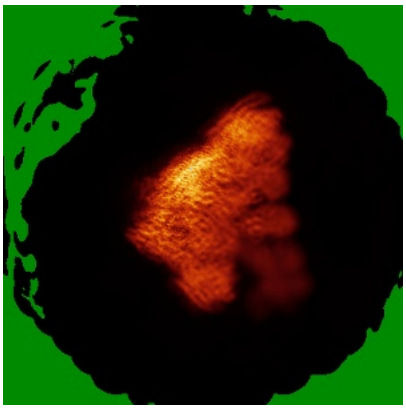
The images above show the largest variance slices of the map in three orthogonal directions.

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

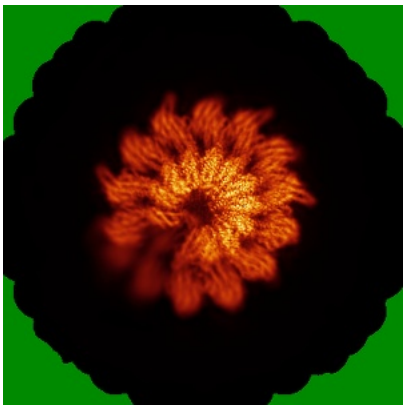
6.4.1 Primary map



X

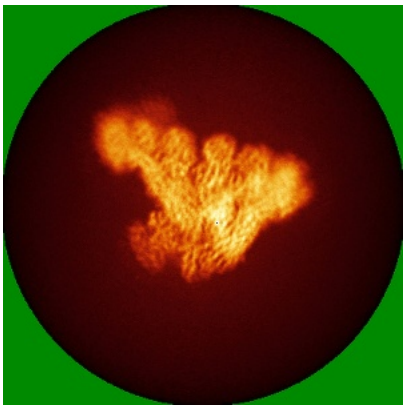


Y

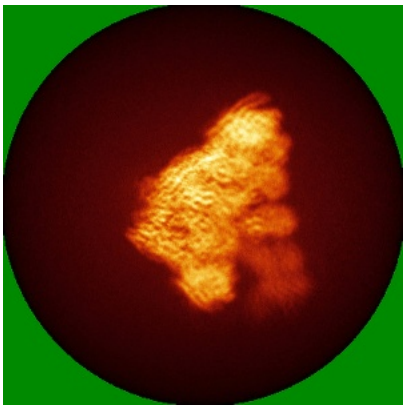


Z

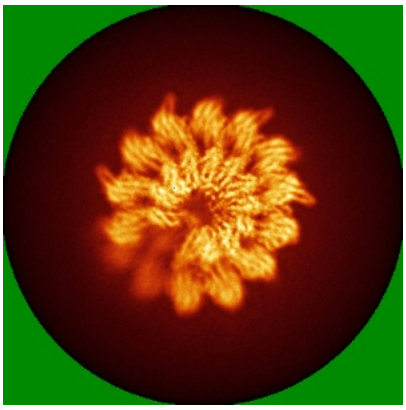
6.4.2 Raw map



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)

This section was not generated.

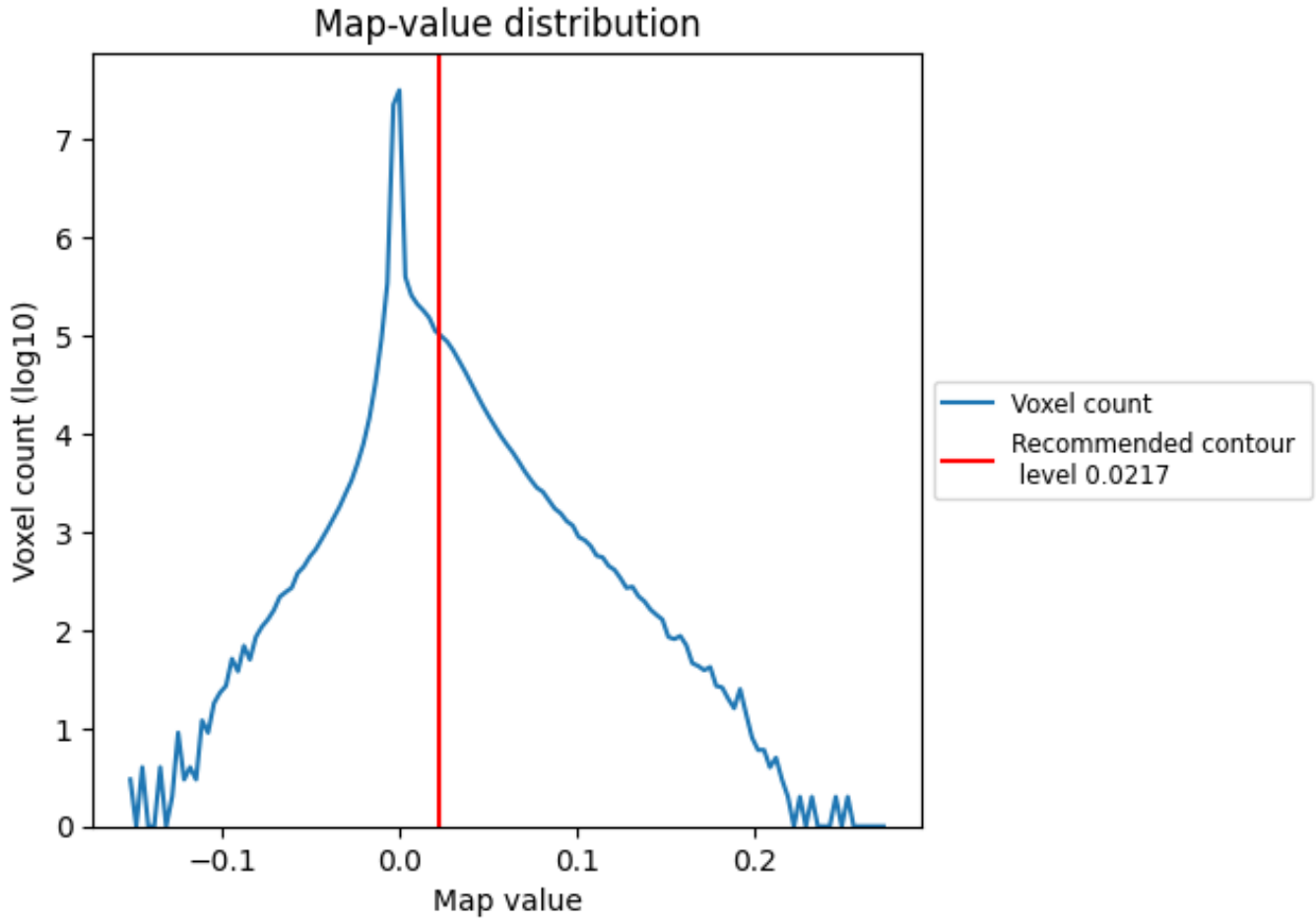
6.6 Mask visualisation (i)

This section was not generated. No masks/segmentation were deposited.

7 Map analysis

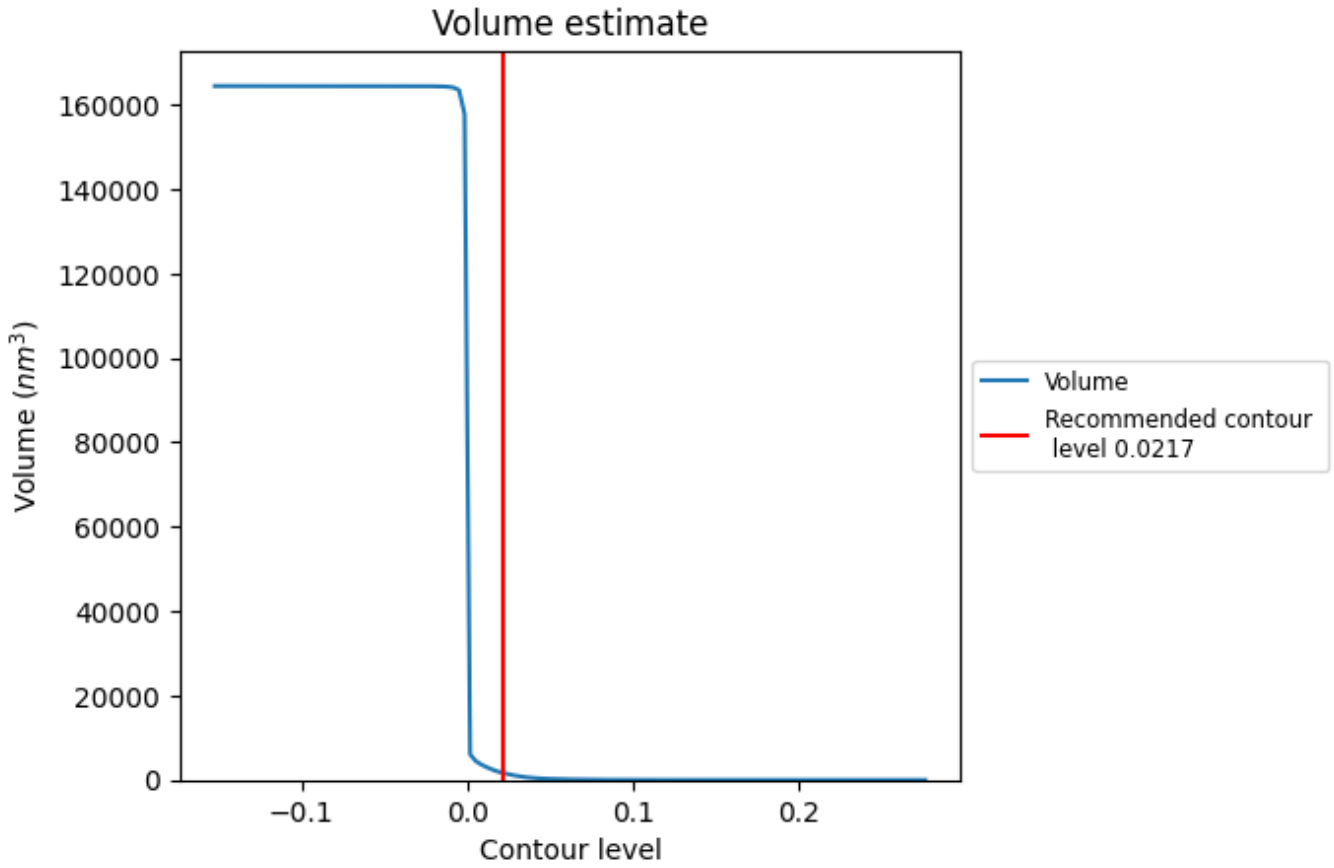
This section contains the results of statistical analysis of the map.

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.

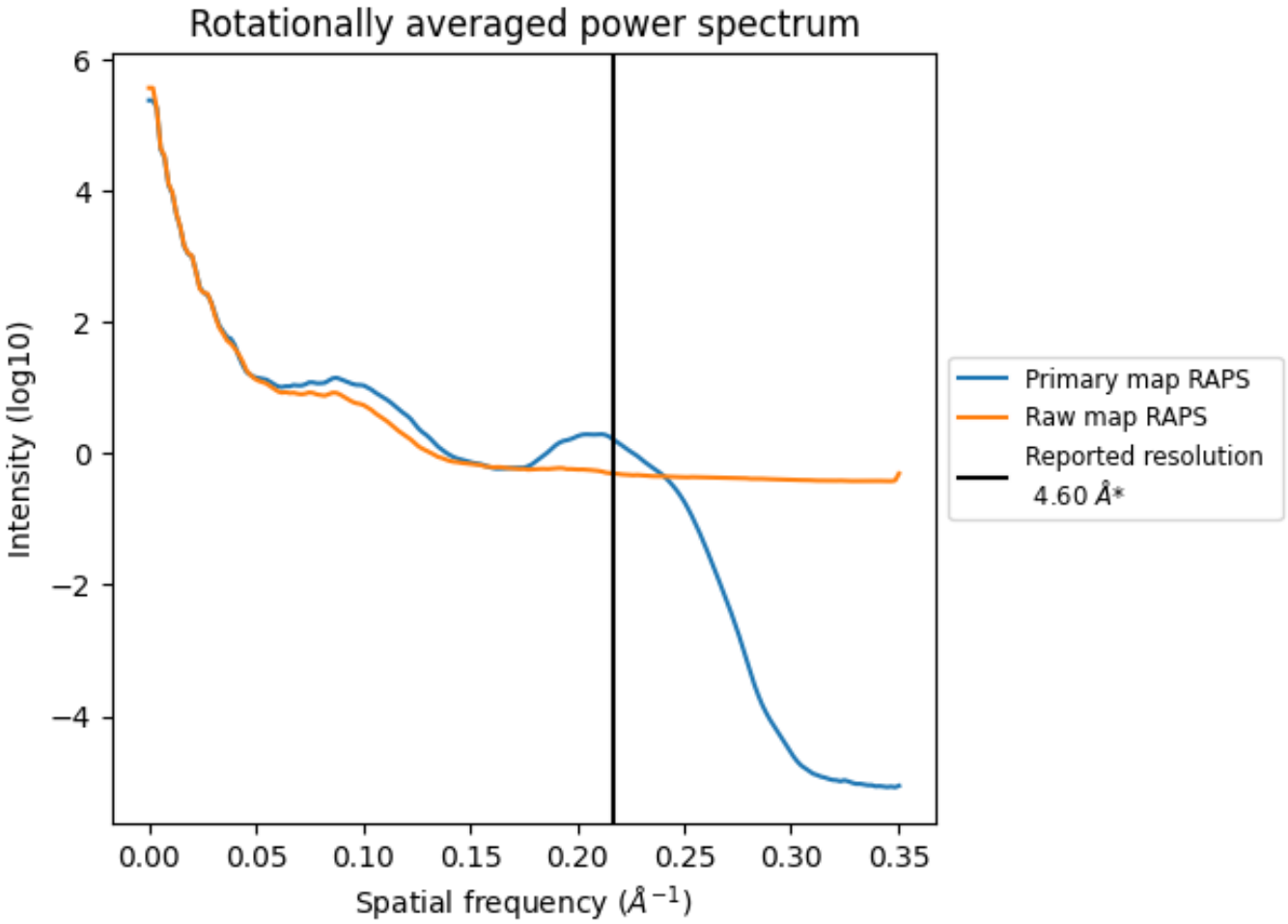
7.2 Volume estimate



The volume at the recommended contour level is 1642 nm^3; this corresponds to an approximate mass of 1483 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)

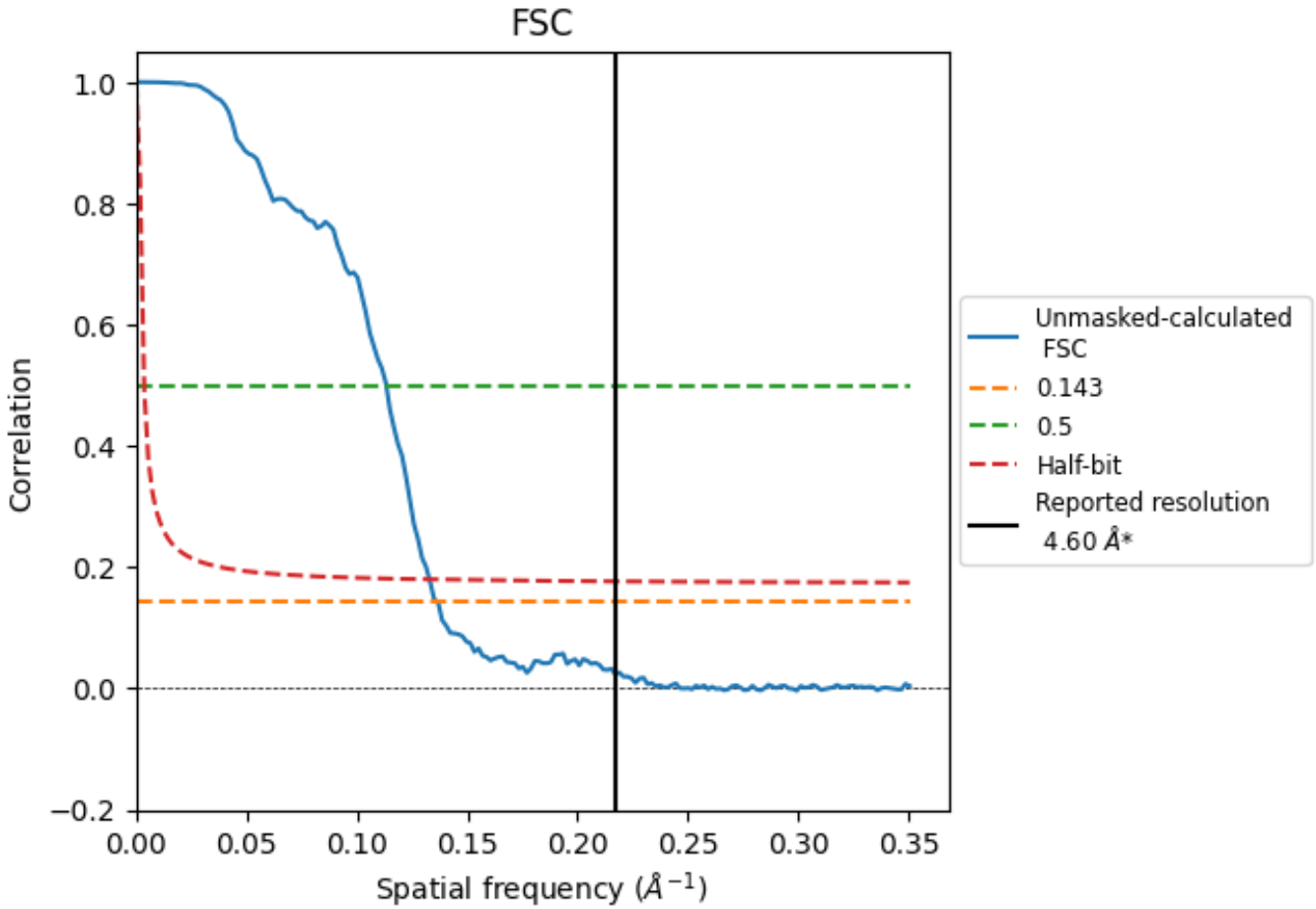


*Reported resolution corresponds to spatial frequency of 0.217 Å^{-1}

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 0.217 Å^{-1}

8.2 Resolution estimates (i)

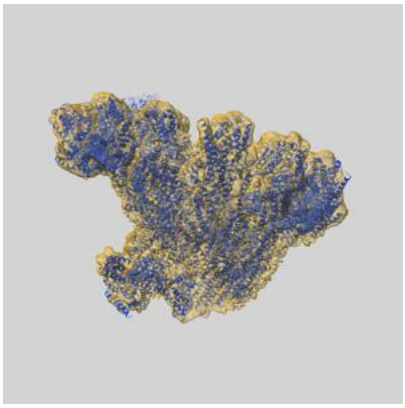
Resolution estimate (Å)	Estimation criterion (FSC cut-off)		
	0.143	0.5	Half-bit
Reported by author	4.60	-	-
Author-provided FSC curve	-	-	-
Unmasked-calculated*	7.34	8.83	7.52

*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 7.34 differs from the reported value 4.6 by more than 10 %

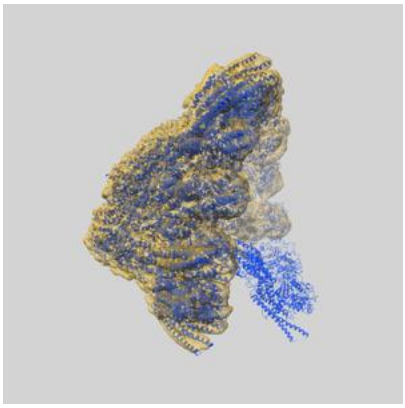
9 Map-model fit

This section contains information regarding the fit between EMDB map EMD-52730 and PDB model 9I8N. Per-residue inclusion information can be found in section 3 on page 9.

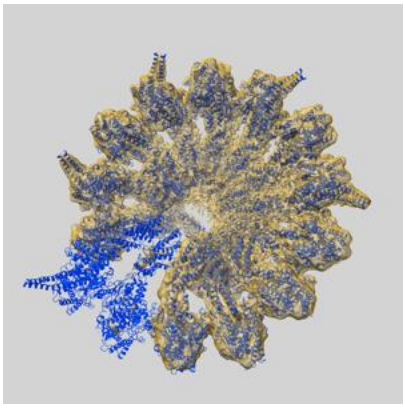
9.1 Map-model overlay



X



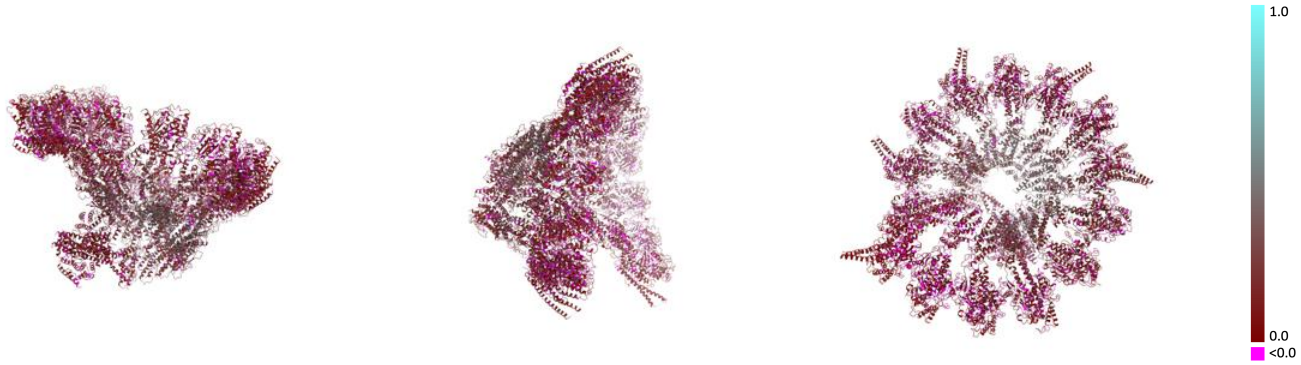
Y



Z

The images above show the 3D surface view of the map at the recommended contour level 0.0217 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.

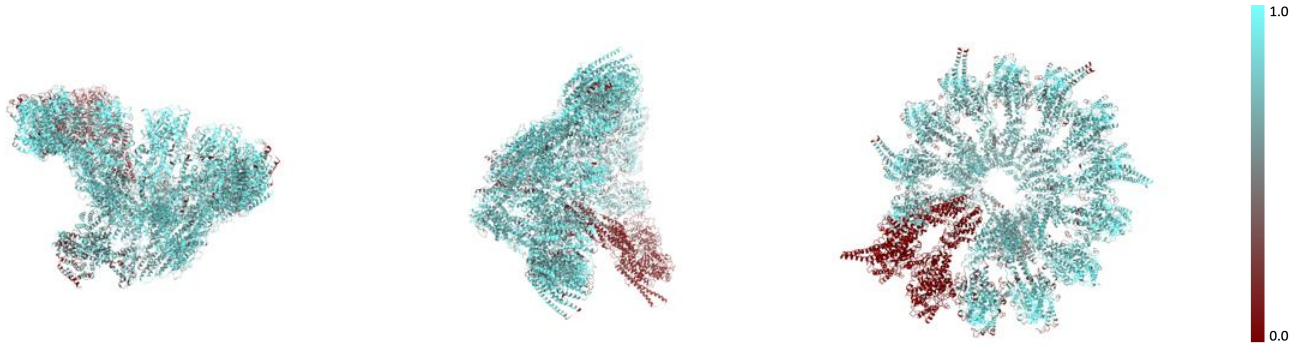
9.2 Q-score mapped to coordinate model (i)



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.

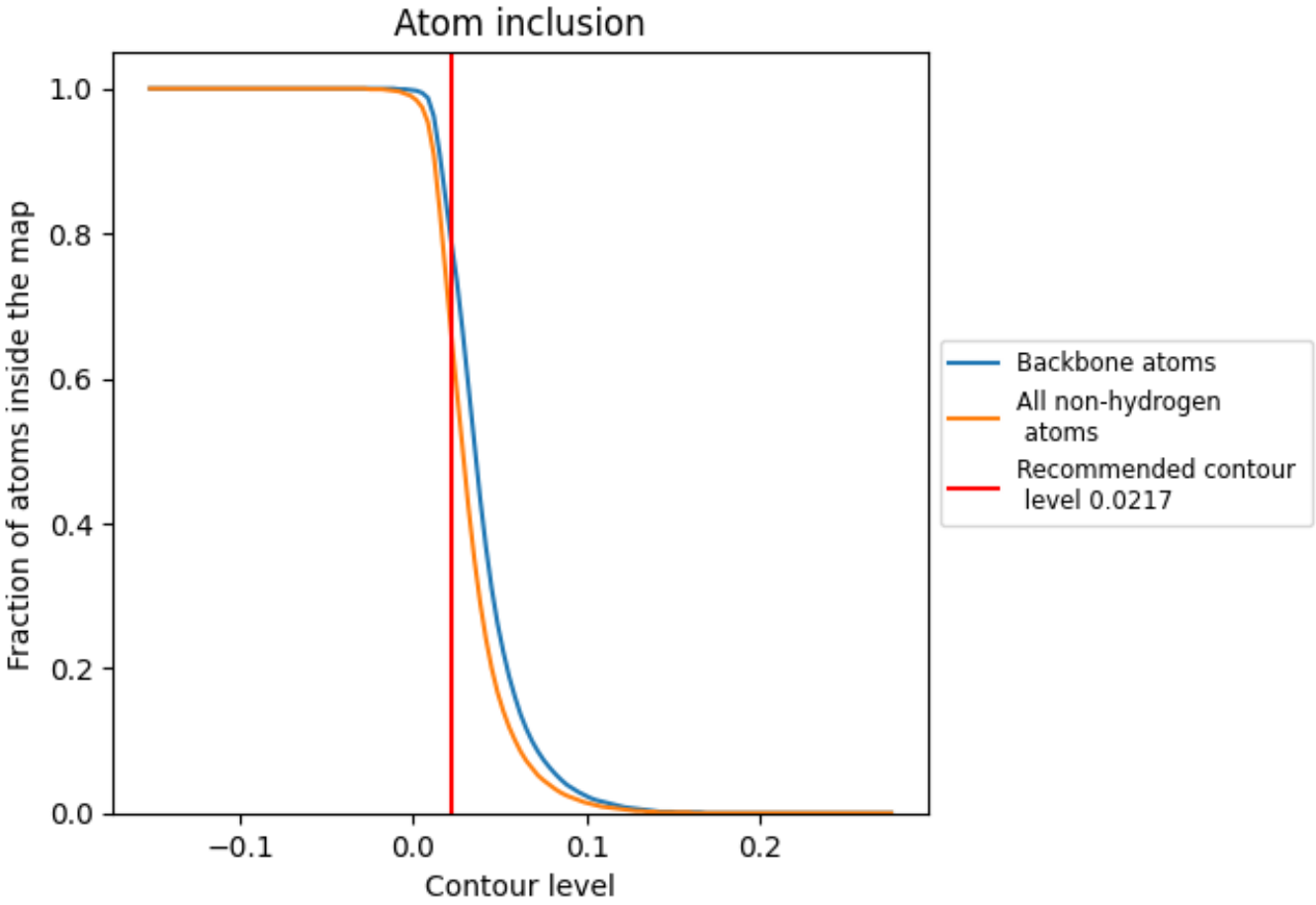
9.3 Atom inclusion mapped to coordinate model (i)



X Y Z

The images above show the model with each residue coloured according to its atom inclusion. This shows to what extent they are inside the map at the recommended contour level (0.0217).

9.4 Atom inclusion (i)



At the recommended contour level, 79% of all backbone atoms, 67% 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 (0.0217) and Q-score for the entire model and for each chain.

Chain	Atom inclusion	Q-score
All	0.6660	0.1430
A	0.7740	0.1290
B	0.7540	0.1560
C	0.7870	0.1650
D	0.7590	0.1680
E	0.8060	0.1940
F	0.7670	0.1810
G	0.8140	0.2150
H	0.8140	0.2320
I	0.8130	0.2260
J	0.7910	0.1900
K	0.7840	0.1600
L	0.7370	0.1550
M	0.0290	0.0880
N	0.0000	0.0740
O	0.8520	0.3430
P	0.7540	0.2000
Q	0.5180	0.1330
R	0.6590	0.1460
S	0.7170	0.1400
T	0.4200	0.1080
U	0.6280	0.1310
V	0.5880	0.1160
W	0.5800	0.1340
X	0.5700	0.1220
a	0.7340	0.0960
b	0.7730	0.1170
c	0.7230	0.0790
d	0.7610	0.1110
e	0.7380	0.0950
f	0.7420	0.0980
g	0.7940	0.1220
h	0.8270	0.1600
i	0.8150	0.1450
j	0.8150	0.1260

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Chain	Atom inclusion	Q-score
k	0.7680	0.0960
l	0.6540	0.0830
m	0.0050	0.0440
n	0.0000	0.0440
o	0.8400	0.3530
p	0.8430	0.3180
q	0.4740	0.1220
r	0.7050	0.1580
s	0.7480	0.1700
t	0.5090	0.1410